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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 2025/10/24 -

2025/08949 ~ Provisional ~54:VOLUME REDUCTION DEVICE FOR PREPROCESSING RECYCLABLE THERMOFORM PET WASTE ~71:Nicola Joan van Hille, 24 Cornuta Ave, Tokai, South Africa ~72: Geoffrey Lumsden Moss;Liam Giles van Hille~

2025/08950 ~ Provisional ~54:A WIND TURBINE ~71:BRONN, Lodewyk, 10 BOLO STREET, MORELETA PARK, 0181, SOUTH AFRICA, South Africa ~72: BRONN, Lodewyk~

2025/09194 ~ Provisional ~54:CASH VOUCHER SYSTEM ~71:Aurora FinTech Group, 03 Jackoosterlaark street Steelpark Roods Gardens, South Africa;Relebohile Tsosane, 03 Jackoosterlaark street Steelpark Roods Gardens, South Africa ~72: Relebohile Tsosane~

2025/08952 ~ Provisional ~54:WATER QUALITY SAMPLING SYSTEM ~71:UNIVERSITY OF PRETORIA, CNR LYNWOOD & UNIVERSITY STREET, South Africa ~72: AMANDA REDMOND;LIZA KORSTEN;LOANDI RICHTER-MOUTON~

2025/08960 ~ Complete ~54:ISOQUINOLIN-3-YL CARBOXAMIDES AND PREPARATION AND USE THEREOF ~71:BIOSPLICE THERAPEUTICS, INC., 9360 Towne Centre Drive, San Diego, California, 92121, United States of America ~72: BRIAN WALTER EASTMAN;CHANDRAMOULI CHIRUTA;CHI CHING MAK;GOPI KUMAR MITTAPALLI;JIANGUO CAO;SUNIL KUMAR KC;VENKATAIAH BOLLU~ 33:US ~31:62/328,255 ~32:27/04/2016

2025/08965 ~ Complete ~54:SOFA ASSEMBLY AND SOFA ~71:MAN WAH FURNITURE MANUFACTURING (SHENZHEN) CO., LTD., Minhua Industrial City, 189 Hongmian Road, Henggang Street, Longgang District, Shenzhen, Guangdong, 518100, People's Republic of China ~72: CHEN, Weiming~ 33:CN ~31:202311735667.1 ~32:14/12/2023;33:CN ~31:202323439200.0 ~32:14/12/2023

2025/08968 ~ Complete ~54:SEAT FRAMES AND SOFA ASSEMBLY ~71:MAN WAH FURNITURE MANUFACTURING (SHENZHEN) CO., LTD., Minhua Industrial City, 189 Hongmian Road, Henggang Street, Longgang District, Shenzhen, Guangdong, 518100, People's Republic of China ~72: CHEN, Weiming~ 33:CN ~31:202311735424.8 ~32:14/12/2023;33:CN ~31:202323438829.3 ~32:14/12/2023

2025/08969 ~ Complete ~54:ENGAGEMENT ASSEMBLY FOR ENGAGING WITH OUTER MEMBER ~71:MAN WAH FURNITURE MANUFACTURING (SHENZHEN) CO., LTD., Minhua Industrial City, 189 Hongmian Road, Henggang Street, Longgang District, Shenzhen, Guangdong, 518100, People's Republic of China ~72: CHEN, Weiming~ 33:CN ~31:202323382083.9 ~32:11/12/2023

2025/08972 ~ Complete ~54:INJECTABLE COMPOSITIONS OF METOLAZONE ~71:CIPLA LIMITED, Cipla House Peninsula Business Park, Ganpatrao Kadam Marg, Lower Parel, Mumbai, India ~72: BHADAURIA,

Pradeep;HARDE, Harshad;KALIAPERUMAL, Arunprasath;KHAIRNAR, Sandip;RAJYAGURU, Tushar~
33:IN ~31:202321030280 ~32:27/04/2023

2025/08983 ~ Complete ~54:ADENO-ASSOCIATED VIRUS COMPLEX WITH IMPROVED EXPRESSION OF
RUNX3 GENE AND USES FOR PREVENTING OR TREATING KRAS MUTATED LUNG CANCER
~71:GeneCraft Inc., E9-480, 1 Chungdae-ro, Seowon-gu, CHEONGJU-SI 28644, CHUNGCHEONGBUK-DO,
REPUBLIC OF KOREA, Republic of Korea ~72: BAE, Suk Chul;CHI, Xinzi;LEE, Ja Yeol;LEE, You Soub~
33:US ~31:18/190,561 ~32:27/03/2023

2025/08987 ~ Complete ~54:COMPOSITION COMPRISING A SCELETIUM EXTRACT AND USES THEREOF
~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, South Africa ~72: KASCHULA, Catherine
Hart;MAKUNGA, Nokwanda Pearl;REDDY, Kaylan~

2025/08957 ~ Complete ~54:SENSING CABLE FIXING DEVICE IN GEOTECHNICAL BOREHOLES ~71:Bengbu
University, No. 1866 Caoshan Road, Bengbu City, Anhui Province, 233030, People's Republic of China ~72: FU
Yuanhao;MA Yanran;NI Jing;OU Yuanchao;WANG Dejian;WANG Yonghui;WU Congcong~

2025/08962 ~ Complete ~54:METHOD FOR SELECTION OF HIGH M6P RECOMBINANT PROTEINS
~71:AMICUS THERAPEUTICS, INC., 1 Cedar Brook Drive, Cranbury, New Jersey, 08512, United States of
America ~72: HUNG V DO;RUSSELL GOTSCHALL~ 33:US ~31:62/315,400
~32:30/03/2016;33:US ~31:62/457,584 ~32:10/02/2017;33:US ~31:15/473,994 ~32:30/03/2017

2025/08973 ~ Complete ~54:CHEMICAL COOLANT FOR AEROSOL FIRE-EXTINGUISHING AGENT AND
PREPARATION METHOD THEREFOR ~71:HUBEI JIANDUN FIRE TECHNOLOGY CO., LTD., No.199 Huaxi
Road, Biological Industrial Park, China (Hubei) Free Trade Zone Yichang Area, Yichang, Hubei, 443000,
People's Republic of China ~72: HUANG, Rui;LIU, Xinyu;LU, Fagui;WANG, Qi;ZOU, Beibei~
33:CN ~31:202310381299.9 ~32:11/04/2023

2025/08976 ~ Complete ~54:TRICYCLIC HETEROCYCLIC DERIVATIVES, COMPOSITIONS AND USES
THEREOF ~71:DANATLAS PHARMACEUTICALS CO., LTD., Suite 101, Floor 2, Building 2-4A, 7#, Liangshuihe
1st Street, BDA, Daxing District, People's Republic of China ~72: ZHANG, Yao;ZHOU, Wenlai;ZHUO, Jincong~
33:CN ~31:PCT/CN2023/091391 ~32:27/04/2023;33:CN ~31:PCT/CN2023/101168
~32:19/06/2023;33:CN ~31:PCT/CN2023/126326 ~32:25/10/2023

2025/08985 ~ Complete ~54:MODIFIED COMPLEX PLATFORM OF ADENO-ASSOCIATED VIRUS WITH
IMPROVED RATE OF EXPRESSION OF LOADED GENES AND REDUCED GENOTOXICITY ~71:GeneCraft
Inc., E9-480, 1 Chungdae-ro, Seowon-gu, CHEONGJU-SI 28644, CHUNGCHEONGBUK-DO, REPUBLIC OF
KOREA, Republic of Korea ~72: BAE, Suk Chul;CHI, Xinzi;KIM, Woo-Jin;LEE, You Soub;PARK, Tae Geun~
33:US ~31:18/190,630 ~32:27/03/2023

2025/08989 ~ Complete ~54:PALLET-LIKE BASE FRAME FOR A TRANSPORT AND STORAGE CONTAINER
AND TRANSPORT AND STORAGE CONTAINER COMPRISING SUCH A BASE FRAME ~71:PROTECHNA
S.A., Avenue de la Gare 14, Switzerland ~72: ENDERS, Veit;KOSEL, Thomas;ROMMEL, Lars~ 33:DE ~31:10
2023 111 043.8 ~32:28/04/2023

2025/08955 ~ Complete ~54:HIGH-ORDER HETEROGENEOUS MULTI-AGENT TIME-VARYING FORMATION
CONTROL METHOD UNDER COMPLEX COMMUNICATION CONSTRAINTS ~71:Henan University of Urban
Construction, Longxiang Avenue, Xinhua District, Pingdingshan City, Henan Province, 467000, People's Republic
of China ~72: Changbing Zheng;Jinpeng Wang;Kaige Pang;Ruimin Zhou;Wenjie Si;Yanfei Dong;Zhenzhen
Cheng;Zhonghua Pang~ 33:CN ~31:202411905554.6 ~32:23/12/2024

2025/08964 ~ Complete ~54:METHODS OF RECOVERING GOLD FROM WASTE STREAMS ~71:ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY, 1475 N. Scottsdale Road, SkySong, United States of America ~72: LONG, Min;RITTMANN, Bruce;ZHOU, Chen~ 33:US ~31:63/500,900 ~32:08/05/2023

2025/08974 ~ Complete ~54:HEATER WITH REMOTE COMBUSTION AIR ADDITION ~71:LUMMUS TECHNOLOGY LLC, 1515 Broad Street, United States of America ~72: MCKENZIE, Daniel;POLLS, Marinus Adriaan;ZHAO, Baozhong~ 33:US ~31:63/514,248 ~32:18/07/2023

2025/08984 ~ Complete ~54:AGGREGATION OF GLOBAL STORY BASED ON ANALYZED DATA ~71:Invisible Holdings LLC, 30 N. Gould Street, STE. R, SHERIDAN 82801, WY, USA, United States of America ~72: BAKER, Michael;CRONIN, John;CRONIN, Seth;ST. MARTIN, Raymond Francis;VAN VALER, Andrew Lee~ 33:US ~31:63/462,118 ~32:26/04/2023;33:US ~31:63/462,121 ~32:26/04/2023;33:US ~31:63/608,589 ~32:11/12/2023;33:US ~31:18/647,332 ~32:26/04/2024

2025/08963 ~ Complete ~54:SARS-COV-2 VACCINE COMPOSITIONS ~71:NOVAVAX, INC., 700 Quince Orchard Road, Gaithersburg, United States of America ~72: PATEL, Nita;SMITH, Gale~ 33:US ~31:63/497,986 ~32:24/04/2023;33:US ~31:63/507,079 ~32:08/06/2023;33:US ~31:63/507,412 ~32:09/06/2023;33:US ~31:63/508,088 ~32:14/06/2023;33:US ~31:63/579,438 ~32:29/08/2023;33:US ~31:63/580,596 ~32:05/09/2023

2025/08975 ~ Complete ~54:EASILY-DEMOLDED HIGH-INSULATION LOW-CORROSION CONDENSED AEROSOL FIRE EXTINGUISHING AGENT AND PREPARATION METHOD THEREFOR ~71:HUBEI JIANDUN FIRE TECHNOLOGY CO., LTD., No.199 Huaxi Road, Biological Industrial Park, China(Hubei) Free Trade Zone Yichang Area, Yichang, Hubei, 443000, People's Republic of China ~72: HUANG, Rui;LIU, Xinyu;LU, Fagui;ZOU, Beibei~ 33:CN ~31:202310415376.8 ~32:18/04/2023

2025/08980 ~ Complete ~54:CRYSTALLINE LYSINE ACETYLTRANSFERASE 6A (KAT6A) INHIBITOR AND USES THEREOF ~71:Insilico Medicine IP Limited, 26th Floor, Three Exchange Square, 8 Connaught Place, CENTRAL HONG KONG, CHINA (P.R.C.), People's Republic of China ~72: CHENG, Xin;LIANG, Xing;QIN, Luoheng;YIN, Yushu~ 33:IB ~31:2023/090649 ~32:25/04/2023

2025/08953 ~ Complete ~54:APPLICATION OF MORINGA OLEIFERA LEAVES IN PREPARING PRODUCTS FOR TREATING AND/OR ALLEVIATING FATTY LIVER IN POULTRY DURING LATE LAYING PERIOD ~71:Poultry Institute, Shandong Academy of Agricultural Sciences, No.23788 Gongye North Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: Ahmed Mostafa Emam Badawy;DONG Wenwen;HAN Jina;HUANG Ruitong;LI Guiming;MENG Kai;Moataz Ibrahim Badawy;QI Jiajia;TIAN Ye;WANG Wenbin;YIN Zhenchen;YUAN Xiaoyuan;Yahia Mohammed Madbouly Hassanain;ZHANG Yuxia~

2025/08959 ~ Complete ~54:OPTIMIZED RENEWABLE FUEL PRODUCTION USING A MICROGRID CONTROLLER ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: HASLER, Gregory Scott;NAGESH, Sowmya;SHAH, Chinmay~ 33:US ~31:18/943,076 ~32:11/11/2024

2025/08966 ~ Complete ~54:HOOK COMPONENT AND SOFA BACKREST ASSEMBLY ~71:MAN WAH FURNITURE MANUFACTURING (SHENZHEN) CO., LTD., Minhua Industrial City, 189 Hongmian Road, Henggang Street, Longgang District, Shenzhen, Guangdong, 518100, People's Republic of China ~72: CHEN, Weiming~ 33:CN ~31:202323180284.0 ~32:23/11/2023

2025/08967 ~ Complete ~54:ELASTIC ASSEMBLY, CONNECTION COMPONENT, AND FOOTREST ASSEMBLY OF SOFA ~71:MAN WAH FURNITURE MANUFACTURING (SHENZHEN) CO., LTD., Minhua

Industrial City, 189 Hongmian Road, Henggang Street, Longgang District, Shenzhen, Guangdong, 518100, People's Republic of China ~72: CHEN, Weiming~ 33:CN ~31:202323179235.5 ~32:23/11/2023

2025/08971 ~ Complete ~54:PHARMACEUTICAL COMPOSITION OF ENSIFENTRINE WITH PHARMACEUTICALLY ACCEPTABLE PROPELLANTS ~71:CIPLA LIMITED, Cipla House Peninsula Business Park, Ganpatrao Kadam Marg, Lower Parel, Mumbai, India ~72: BAJPAYEE, Priyanka;BHADAURIA, Pradeep;CHENNURU, Ramanaiah;DAS, Arijji;ROTE, Kiran~ 33:IN ~31:202321022560 ~32:28/03/2023

2025/08977 ~ Complete ~54:ALKYLALUMINOXANE COMPOSITIONS PREPARED FROM TRIMETHYLALUMINUM AND TRIETHYLALUMINUM AND USES THEREOF IN ETHYLENE OLIGOMERIZATION PROCESSES ~71:CHEVRON PHILLIPS CHEMICAL COMPANY LP, P O BOX 4910, THE WOODLANDS, TEXAS 77387-4910, USA, United States of America ~72: LESEBERG, Julie, A.;SMALL, Brooke, L.~ 33:US ~31:63/498,537 ~32:27/04/2023

2025/08982 ~ Complete ~54:METHOD FOR MANUFACTURING VIRAL VACCINES AND COMPOSITIONS THEREOF ~71:Serum Institute of India Private Limited, 212/2, Off Soli Poonawalla Road, Hadapsar, PUNE 411028, MAHARASHTRA, INDIA, India ~72: BHOSALE, Jayant Hanamant;DHERE, Rajeev Mhalasakant;JADHAV, Ramakant Shrimantrao;MULEY, Ravindra Ganpatrao;PANSE, Arvind Vasudeo;PATIL, Sanjay Laxman;POONAWALLA, Adar Cyrus;POONAWALLA, Cyrus Soli;VAIDYA, Vivek Balwant~ 33:IN ~31:202321021935 ~32:27/03/2023

2025/08956 ~ Complete ~54:SYSTEM AND METHOD FOR AUTOMATED GENERATION OF EMPLOYEE EXTRINSIC REWARD PLANS ~71:SANTOSH, Neemish Pulimoottil, Flat 2, Building 886, Bahrain ~72: SANTOSH, Neemish Pulimoottil~

2025/08958 ~ Complete ~54:CALIBRATION DEVICE FOR LASER LEVEL ~71:JINHUA DEYONG TOOLS CO., LTD., Unit A, Building 11, No. 588, Dengyun Street, People's Republic of China;JINHUA UNIVERSITY OF VOCATIONAL TECHNOLOGY, No. 888, Haitang West Road, People's Republic of China ~72: LANG, Weiming;WANG, Fei;WANG, Guifeng;ZHANG, Xian~

2025/08961 ~ Complete ~54:HYALURONIC ACID-PRODUCING RECOMBINANT CELLS ~71:GIVAUDAN SA, Chemin de la Parfumerie 5,1214 Vernier, Switzerland ~72: DOMINIQUE LOUIS;DOMINIQUE THOMAS;KARINE JAILLARDON;LIONEL DURANT;VALENTINA BEVILACQUA~ 33:EP ~31:21166743.1 ~32:01/04/2021;33:EP ~31:21306488.4 ~32:26/10/2021

2025/08979 ~ Complete ~54:PHOSPHINE-IMINO-QUINOLINE AND RELATED LIGANDS FOR USE IN ETHYLENE OLIGOMERIZATION PROCESSES ~71:CHEVRON PHILLIPS CHEMICAL COMPANY LP, P O BOX 4910, THE WOODLANDS, TEXAS 77387-4910, USA, United States of America ~72: LESEBERG, Julie, A.;SMALL, Brooke, L.;WEBSTER-GARDINER, Michael, S.~ 33:US ~31:63/498,538 ~32:27/04/2023

2025/08951 ~ Provisional ~54:REDMUD SYSTEM ~71:Mancan SA, No 65A Nobody Thakgalang, South Africa ~72: Candy Mangena~

2025/08981 ~ Complete ~54:ORAL PHARMACEUTICAL COMPOSITIONS ~71:Assembly Biosciences, Inc., Two Tower Place, 7th Floor, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: WHITE, Nicole;WU, Yi;ZONG, Zhixin~ 33:US ~31:63/498,398 ~32:26/04/2023;33:US ~31:63/522,996 ~32:23/06/2023;33:US ~31:63/553,453 ~32:14/02/2024

2025/08986 ~ Complete ~54:ANTI-INFLUENZA ANTIBODY ~71:Japan Institute for Health Security, 21-1, Toyama 1-chome, Shinjuku-ku, TOKYO 1628655, JAPAN, Japan;Sumitomo Pharma Co., Ltd., 6-8, Doshomachi

2-chome, Chuo-ku, OSAKA-SHI 5410045, OSAKA, JAPAN, Japan ~72: ADACHI, Yu;NAKAKO, Mayumi;TAKAHASHI, Yoshimasa;TONOUCHI, Keisuke~ 33:JP ~31:2023-072516 ~32:26/04/2023

2025/08988 ~ Complete ~54:NAVIGATION DEVICE FOR AN OPTICAL SYSTEM FOR VIEWING AND OBSERVING A SCENE, AND METHOD FOR DETERMINING AN ATTITUDE FOR SUCH AN OPTICAL SYSTEM ~71:SAFRAN ELECTRONICS & DEFENSE, 2 Boulevard du Général Martial Valin, France ~72: MICHELS, Yves;RENAUDAT, Mathieu;WOISELLE, Arnaud~ 33:FR ~31:FR2304890 ~32:22/05/2023

2025/08954 ~ Complete ~54:HIGH-MILDNESS, GREY-WATER-FRIENDLY SOAPS VIA LOW-WATER REACTIVE EXTRUSION AND PREBIOTIC/POSTBIOTIC ADDITIVES ~71:Dr. Batuk M. Bhil, Chandrpark-3, Plot No. 78 Talaja Road, Bhavnagar, Gujarat, India;Dr. Kirti, House No. 35/4u Near Omkareshwar Mandir, Gorabarik, Amhat Sultanpur, Uttar Pradesh, India;Dr. Ms. Karuna, Department of Chemical Engineering, MJP Rohilkhand University, Bareilly, Uttar Pradesh, India;Dr. Nikunj Nileshbhai Dave, 11, Hariom Nagar, Bortalav Road, Bhavnagar, Gujarat, India;Dr. Pratima Rani Singh, Staff Quarters, Rescue Line, Dumanhill, Chirmiri District, Manendragarh, Chirmiri, Bharatpur, Chhattisgarh, India;Dr. Vijendra Kumar, House No. 3984, Rawatpura Phase 2, Bhatagao, Raipur, Chhattisgarh, India;Niharika Dutt, 485/8 Subhash Nagar, Meerut, Uttar Pradesh, India;Nisargendu H. Bhatt, Shreeniketanam, Anmol Tenaments, Amrut Nagar, Near Bypass, Madhuram, Junagadh, Gujarat, India ~72: Dr. Batuk M. Bhil;Dr. Kirti;Dr. Ms. Karuna;Dr. Nikunj Nileshbhai Dave;Dr. Pratima Rani Singh;Dr. Vijendra Kumar;Niharika Dutt;Nisargendu H. Bhatt~ 33:IN ~31:202511080197 ~32:24/08/2025

2025/08970 ~ Complete ~54:ANGLE ADJUSTMENT SYSTEM ~71:MAN WAH FURNITURE MANUFACTURING (SHENZHEN) CO., LTD., Minhua Industrial City, 189 Hongmian Road, Henggang Street, Longgang District, Shenzhen, Guangdong, 518100, People's Republic of China ~72: CHEN, Weiming~ 33:CN ~31:202323179293.8 ~32:23/11/2023

2025/08978 ~ Complete ~54:CATALYST SYSTEM AND ETHYLENE OLIGOMERIZATION PROCESS FOR THE PREPARATION OF LINEAR ALPHA OLEFINS ~71:CHEVRON PHILLIPS CHEMICAL COMPANY LP, P O BOX 4910, THE WOODLANDS, TEXAS 77387-4910, USA, United States of America ~72: LESEBERG, Julie, A.;MILNER, Matthew, F.;SMALL, Brooke, L.;WEBSTER-GARDINER, Michael, S.~ 33:US ~31:63/498,537 ~32:27/04/2023;33:US ~31:63/498,538 ~32:27/04/2023;33:US ~31:63/498,559 ~32:27/04/2023

- APPLIED ON 2025/10/27 -

2025/09040 ~ Provisional ~54:SECURE ELEMENT-BASED AUTOMATED REGIONAL COMPLIANCE AND AUTHENTICATION SYSTEM FOR PAYMENT TRANSACTIONS ~71:Francois Pierre Joubert, 521,20th Ave, Rietfontein Gauteng, South Africa ~72: Francois Pierre Joubert~

2025/09146 ~ Provisional ~54:THE CEO MINDSET ALGORITHM AND PLATFORM ~71:Nikolaus Eberl, 44 Melrose Boulevard, South Africa ~72: Nikolaus Eberl~

2025/09004 ~ Complete ~54:DOMESTICATION AND CULTIVATION APPARATUS FOR WATERLOGGING-TOLERANT ACTINIDIA ROOTSTOCK TISSUE CULTURE SEEDLINGS ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: GAN Ling;LI Zhi;SI Wenjing;WANG Xinghui;WEI Pengfei;ZHANG Qiang;ZHU Tao~

2025/09013 ~ Complete ~54:ANALYSIS METHOD FOR A REINFORCED CONCRETE STRUCTURE COUPLED WITH LOAD AND ENVIRONMENTAL CORROSION ~71:Beijing Jiaotong University, No.3 Shangyuan Village, Xizhimen, Haidian District, Beijing, 100044, People's Republic of China ~72: Jiahuan LI;Li ZHU;Zhao WANG;Zhicheng YANG~ 33:CN ~31:2025112926292 ~32:10/09/2025

2025/09017 ~ Complete ~54:CABLE BUSHING ~71:KSB SE & Co. KGaA, Johann-Klein-Straße 9, FRANKENTHAL 67227, GERMANY, Germany ~72: HAUCK, Dr. Patrick;MEYER, Robert;OLTMANN, Stefan~ 33:DE ~31:10 2023 111 033.0 ~32:28/04/2023

2025/08992 ~ Provisional ~54:CERTIFICATION AS A SERVICE (CAAS) FOR LIVING WAGE COMPLIANCE WITH TAMPER EVIDENT ATTESTATIONS, DYNAMIC EMPLOYER RATINGS, SMART CONTRACT (OR EQUIVALENT) ENFORCEMENT, AND AUTOMATED RECERTIFICATION TRIGGERS ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: KABELO DIALE~

2025/08996 ~ Provisional ~54:SYSTEM AND METHOD FOR FAITH-BASED REVENUE ALLOCATION IN MOBILE VIRTUAL NETWORKS ~71:Mr John Dearden, 33 11th Street, Parkhurst, South Africa ~72: Mr John Dearden~

2025/09003 ~ Complete ~54:TEST DEVICE FOR SIMULATING COMPRESSED AIR ENERGY STORAGE IN ABANDONED MINE CAVERNS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: NIU Ganggang;XIA Yingzhi;ZHENG Chao~

2025/09012 ~ Complete ~54:METHOD FOR AUTONOMOUS PRODUCTION OF AN EDITED VIDEO STREAM ~71:STUDIO AUTOMATED SPORT & MEDIA HOLDING B.V., Veembroederhof 115, Netherlands ~72: BAKKER, Thomas Pieter Jan;COSMA, Radu Alexandru;DE HAAN, Tijmen Floris;UIJENS, Wouter Roel~ 33:NL ~31:2034447 ~32:28/03/2023

2025/09018 ~ Complete ~54:LIPID NANOPARTICLE (LNP) DELIVERY SYSTEMS AND FORMULATIONS ~71:Prime Medicine, Inc., 60 First Street, CAMBRIDGE 02141, MA, USA, United States of America ~72: GURUGE, Charitha;HATIT, Marine;LAI, Li~ 33:US ~31:63/497,059 ~32:19/04/2023;33:US ~31:63/586,456 ~32:29/09/2023

2025/09026 ~ Complete ~54:INTEGRATED TOOL TO INSERT PELLET-RELEASING BIOACTIVE COMPOUND(S) IN A REGION TO BE TREATED OF A SUBJECT IN NEED ~71:PALTECH, 5 avenue du Général Tripier, 75007, Paris, France ~72: CHARLES-HENRI MALBERT;MAURICE REGINALD ALLOUCHE~

2025/08994 ~ Provisional ~54:LABOLA/LOBOLA INSURANCE SYSTEM AND METHOD FOR CULTURAL MARRIAGE OBLIGATIONS ~71:Docomo South Africa, 71 Migmatite Drive, South Africa ~72: Melvin Naidoo~

2025/08999 ~ Provisional ~54:VOTING SYSTEM AND VOTING TERMINAL ~71:PAMA, Thandisizwe Ezwenilethu, 61 Piccola Italia, Via Garibaldi Lane, South Africa ~72: PAMA, Thandisizwe Ezwenilethu~

2025/09005 ~ Complete ~54:MULTI-PURPOSE UNMANNED HELICOPTER FOR MARITIME ~71:Hainan Airuiiao Technology Co., Ltd, 4th Floor, 9A, Phase II, China Merchants Deep-sea Equipment Industrial Park, Yazhou Bay Science and Technology City, Sanya City, Hainan Province, People's Republic of China;Ocean University of China, No. 238, Songling Road, Laoshan District, Qingdao City, Shandong Province, People's Republic of China ~72: CHEN Hao;CHEN Qiliang;GUI Ningzhu;LI Bin;LIU Jiawei;LIU Longcan;SUN Yibo;WANG Zhichao;ZHANG Jian;ZHAO Kaifeng~

2025/09016 ~ Complete ~54:RECOVERY OF HIGH VALUE METALS FROM LITHIUM-ION BATTERIES ~71:CWENGA TECHNOLOGIES (PTY) LTD, 28 BOEING ROAD EAST, DUNVEGAN, 1609, South Africa ~72: FALCONER, Jenny;HARDWICK, Ed;SIWELA, Lesego~ 33:ZA ~31:2024/00509 ~32:16/01/2024;33:ZA ~31:2024/00510 ~32:16/01/2024;33:ZA ~31:2024/00511 ~32:16/01/2024;33:ZA ~31:2024/00512 ~32:16/01/2024

2025/09022 ~ Complete ~54:NON-AQUEOUS HERBICIDAL FORMULATIONS ~71:Adama Agan Ltd., P.O. Box 262, Northern Industrial Zone, ASHDOD 7710001, ISRAEL, Israel ~72: ABRAMOV, Victoria;ZISERMAN, Lior~ 33:US ~31:63/460,618 ~32:20/04/2023;33:US ~31:63/468,013 ~32:22/05/2023

2025/08991 ~ Provisional ~54:PRECISION ENZYMATIC DERMAL LESION MANAGEMENT SYSTEM BASED ON STABILIZED FICUS CARICA LATEX ~71:Pierre Johann van der Merwe, 42 Bergsig street, South Africa ~72: Pierre Johann van der Merwe~

2025/09001 ~ Complete ~54:METHOD AND SYSTEM FOR GENERATING NUTRITIONAL INTERVENTION PROGRAMS BASED ON INTELLIGENT ALGORITHMS ~71:Wuxi Maternity and Child Health Care Hospital, Affiliated Women's Hospital of Jiangnan University, No.48 Huaishu Lane, Liangxi District, Wuxi City, Jiangsu Province, People's Republic of China ~72: JIANG Xia;PEI Jingjing;QI Ying~

2025/09009 ~ Complete ~54:RURAL WASTEWATER TREATMENT AND RESOURCE UTILIZATION TECHNOLOGY ~71:University of Malaya, Faculty of Engineering, University of Malaya, Kuala Lumpur, 50603, Malaysia;Yunnan Academy of Ecological and Environmental Sciences, No. 23, Wangjiaba, Qixiang Road, Kunming City, Yunnan Province, 650034, People's Republic of China ~72: Fuqing ZHANG;Huimei WANG;Lijun MAO;Wenqing LI;Xianghua ZHAO~

2025/09015 ~ Complete ~54:METHOD FOR PRODUCING A SINGLE- OR MULTI-LAYERED FILM, SINGLE- OR MULTI-LAYERED, EXTRUDED, SIMULTANEOUSLY BIAXIALLY STRETCHED AND THERMOFIXED FILM AND CORRESPONDING USES ~71:KUHNE ANLAGENBAU GMBH, Einsteinstraße 20, Germany ~72: SCHIFFMANN, Jürgen Michael~ 33:DE ~31:10 2023 111 077.2 ~32:28/04/2023

2025/09029 ~ Provisional ~54:MODULAR SUBMERSIBLE SPHERICAL ENCLOSURE WITH INTERRUPTED-THREAD ALIGNMENT, INDEPENDENT SEALING CLAMP, AND INTERCHANGEABLE INTERNAL PAYLOAD SYSTEM ~71:Buddy Hamedl, 10 Keevan Gardens, 5 Scone Place, South Africa ~72: Buddy Hamedl~

2025/08998 ~ Provisional ~54:INTEGRATED THERMAL MANAGEMENT AND FIRE SUPPRESSION SYSTEM FOR BATTERY PACKS WITH PRESSURE-ACTUATED FLUID DEPLOYMENT ~71:UNIVERSITY OF PRETORIA, Corner Lynnwood Road & Roper Street Hatfield, South Africa ~72: BOCK, Bradley Denis~

2025/09002 ~ Complete ~54:BDS FOUR-FREQUENCY NETWORK RTK METHOD AND SYSTEM BASED ON INTER-SATELLITE SINGLE-DIFFERENCED AUGMENTATION INFORMATION ~71:Liaoning Technical University, No. 47 Zhonghua Road, Xihe District, Fuxin City, Liaoning Province, 123000, People's Republic of China ~72: CHEN, Liang;GAO, Meng;HUANG, Chao;JIANG, Chunhua~

2025/09021 ~ Complete ~54:DEVICE FOR CORRECTING ROTATIONAL MALALIGNMENT SYNDROME ~71:OLMEDO, Santiago, Av. Miguel Jaureguiberry, Reserva Montoya, Lote 24, LA BARRA 20001, URUGUAY, Uruguay;RUSSI, Martin, Ramón Ortiz 2974, MONTEVIDEO, URUGUAY, Uruguay ~72: RUSSI, Martin~ 33:US ~31:63/455,667 ~32:30/03/2023

2025/09025 ~ Complete ~54:ANTIVIRAL 1,3-DI-OXO-INDENE COMPOUNDS ~71:KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY, 141 Gajeong-Ro, Jang-Dong, Yuseong-Gu, Daejeon 34114, Republic of Korea;NOVARTIS AG, Lichtstrasse 35, 4056, Basel, Switzerland ~72: DANIEL POON;YOUNG-SIK JUNG~ 33:US ~31:63/497,972 ~32:24/04/2023

2025/08997 ~ Provisional ~54:INTERACTIVE ON-SCREEN AI OVERLAY SYSTEM FOR VISUAL TASK GUIDANCE ~71:Rainier Engelbrecht, 7 Van Gendt, South Africa ~72: Rainier Engelbrecht~ 33:ZA ~31:N/A ~32:26/10/2025

2025/09000 ~ Provisional ~54:MOBILE CATALYST – INTELLIGENT GROUP-PURCHASE AND DIGITAL WALLET ECOSYSTEM ~71:The Connected Office (Pty) Ltd, 3 TYRAY COURT MYNDERED STREET, South Africa ~72: Angelo Santamaria~ 33:ZA ~31:ZA2025/08345 ~32:26/10/2025

2025/09008 ~ Complete ~54:METHOD FOR AUTOMATED LAYOUT OF MECHANICAL, ELECTRICAL AND PLUMBING (MEP) SYSTEMS ~71:CHINA RAILWAY SIXTH GROUP BEIJING RAILWAY CONSTRUCTION CO., LTD, No. 2 Wanshou Road, Haidian District, People's Republic of China;CHINA RAILWAY SIXTH GROUP CO., LTD, No. 2 Wanshou Road, Haidian District, People's Republic of China;CHINA RAILWAY SIXTH GROUP GUANGZHOU ENGINEERING CO., LTD, Unit 101, Building 18, Tian'an Headquarters Center, No. 555 North Panyu Avenue, Donghuan Street, Panyu District, People's Republic of China ~72: FENG, Xinzha;FU, Zenghui;GENG, Jinjun;LI, Dezhi;LIU, Yuanhao;SUN, Aitian;WANG, Chao;YANG, Ye;ZHANG, Xueyan;ZHOU, Changxu;ZHOU, Yanan;ZHU, Guotong~ 33:CN ~31:202510948441.2 ~32:10/07/2025

2025/09010 ~ Complete ~54:OX40-BINDING POLYPEPTIDES AND USES THEREOF ~71:Inhibrx Biosciences, Inc., 11025 N. Torrey Pines Road, Suite 140, LA JOLLA 92037, CA, USA, United States of America ~72: BECKLUND, Bryan;CRAGO, William;ECKELMAN, Brendan P.;JONES, Kyle;SULZMAIER, Florian;TIMMER, John C.;WILLIS, Katelyn M.~ 33:US ~31:62/718,106 ~32:13/08/2018

2025/09020 ~ Complete ~54:VALVED HOLDING CHAMBER WITH FLOW INDICATOR ~71:Trudell Medical International Inc., 725 Baransway Drive, LONDON N5V 5G4, ONTARIO, CANADA, Canada ~72: GRAVETT, Matthew;MARBINA, Emmanuel~ 33:US ~31:63/461,093 ~32:21/04/2023

2025/09024 ~ Complete ~54:ADVANTAGEOUS HUMAN DOSAGE REGIMENS FOR ADMINISTRATION OF INX-315 ~71:INCYCLIX BIO, LLC, 600 Park Offices Drive, Suite 355, Research Triangle Park, North Carolina, 27709, United States of America ~72: ALEXANDER SMITH;CINDY CHUNG;ERICA SCHLESINGER;JAY COPELAND STRUM;PATRICK JOSEPH ROBERTS;RANDY J WALD;WESLEY K TATUM~ 33:US ~31:63/460,201 ~32:18/04/2023;33:US ~31:63/470,621 ~32:02/06/2023;33:US ~31:PCT/US2023/025791 ~32:20/06/2023;33:US ~31:63/540,884 ~32:27/09/2023;33:US ~31:63/612,840 ~32:20/12/2023

2025/09028 ~ Complete ~54:GENETICALLY MODIFIED HOST CELLS AND METHODS USEFUL FOR PRODUCING PORPHYRA-334 AND/OR SHINORINE ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, 12th Floor, Oakland, California, 94607-5200, United States of America ~72: IAN SOFIAN YUNUS;TAEK SOON LEE~ 33:US ~31:63/493,636 ~32:31/03/2023

2025/08993 ~ Provisional ~54:SMART LUG SENTINEL™ — WIRED MICRO-SWITCH ANTI-THEFT LUG NUT SYSTEM ~71:TSP INVENTIONS, 8817 ext 10 Empumelelweni, South Africa ~72: Thapelo Mbokane~

2025/08995 ~ Provisional ~54:A VERIFICATION SYSTEM ~71:RASEROKA, KHUMO, PANCY, COPPERLEAF GOLF ESTATE, 916 CARNOUSTIE CRESCENT, MNANDI, CENTURION, 0157, SOUTH AFRICA, South Africa ~72: RASEROKA, KHUMO, PANCY~

2025/09006 ~ Complete ~54:INSOLE FOR ALLEVIATING HEEL PAIN ~71:ZHANG XIAOJUN, No. 169, Family Building Area, Health Road, people's Hospital of Tong chuan, Wangyi District, Tongchuan City, People's Republic of China ~72: ZHANG, Xiaojun~

2025/09014 ~ Complete ~54:ZONAL IRRIGATION FROM SUB-SURFACE RESERVOIR ~71:DNA IRRIGATION (PTY) LTD, 91 Vos Street, South Africa ~72: CLARKE, Richard Enslin~ 33:ZA ~31:2023/03977 ~32:30/03/2023

2025/09027 ~ Complete ~54:METHOD OF STABILISING NONWOVEN FIBRES AND REUSABLE MOISTURE ABSORBING ARTICLES ~71:RSD HOLDINGS LIMITED, 2b/268-270 Manukau Road, Epsom, Auckland, 1023, New Zealand ~72: FRANTISEK RIHA-SCOTT~ 33:AU ~31:2023901019 ~32:06/04/2023

2025/09007 ~ Complete ~54:INTELLIGENT MOXIBUSTION DEVICE WITH CLOSED-LOOP TEMPERATURE CONTROL AND ADJUSTABLE DISTANCE AND USE METHOD THEREOF ~71:The Second Affiliated Hospital of Anhui University of Chinese Medicine (Anhui Acupuncture and Moxibustion Hospital), No.300, Shouchun Road, Luyang District, Hefei City, Anhui Province, 230000, People's Republic of China ~72: Dahong Gao;Li Ma;Siyu Ni;Xiangxiang Li;Yong Wu;Yonglei Zeng~

2025/09011 ~ Complete ~54:HIGH-TEMPERATURE RESISTANT HIGHER ALCOHOL DEFOAMER AND PREPARATION METHOD THEREFOR ~71:FUJIAN SYSTAK ENVIRONMENTAL PROTECTION MATERIAL TECHNOLOGY CO., LTD., No.6, Area A, Light Industry New Town, Yongchun County, Quanzhou, Fujian, 362600, People's Republic of China ~72: LILIN XU;QIUXIA ZHOU;RUIXING ZHENG;YONG XU;ZHIRONG YANG~ 33:CN ~31:202510160742.9 ~32:13/02/2025

2025/09019 ~ Complete ~54:LIPIDS FOR USE IN LIPID NANOPARTICLE FORMULATIONS ~71:Acuitas Therapeutics, Inc., 6190 Agronomy Rd., Suite 405, VANCOUVER V6T 1Z3, BRITISH COLUMBIA, CANADA, Canada ~72: ARNS, Stephen Paul;GATENYO, Julia;TAN, Jason Samuel~ 33:US ~31:63/500,511 ~32:05/05/2023

2025/09023 ~ Complete ~54:A STABLE NON-AQUEOUS BIOPESTICIDE ~71:UPL EUROPE SUPPLY CHAIN GMBH, Suurstoffi 37, Switzerland;UPL MAURITIUS LIMITED, 6th Floor, Suite 157B, Mauritius ~72: BESSE, Samantha;BURTON, Robert;LECOLLINET, Gregory~ 33:EP ~31:23305428.7 ~32:28/03/2023

- APPLIED ON 2025/10/28 -

2025/09048 ~ Complete ~54:5-AMINO-6, 8-DIHYDRO-1H-FURO [3, 4-D] PYRROLO [3, 2-B] PYRIDINE-2-CARBOXAMIDE DERIVATIVES AS MTA-COOPERATIVE INHIBITORS OF PRMT5 ~71:BEONE MEDICINES I GMBH, Aeschengraben 27, Switzerland ~72: GUO, Yian;LI, Jing;WANG, Zhiwei;XU, Sanjia~ 33:CN ~31:PCT/CN2023/085078 ~32:30/03/2023;33:CN ~31:PCT/CN2023/110807 ~32:02/08/2023;33:CN ~31:PCT/CN2024/080582 ~32:07/03/2024

2025/09054 ~ Complete ~54:A METHOD AND A SYSTEM FOR GENERATING A CLASSIFIER FOR TARGET REPORT DATA ~71:HENSOLDT SENSORS GMBH, Willy-Messerschmitt-Straße 3, Germany ~72: GROMER, Jakob Sebastian;HAIN, Stefan;PELZL, Tim Andreas~ 33:EP ~31:23169752.5 ~32:25/04/2023

2025/09035 ~ Provisional ~54:MANUFACTURING METHOD AND ENCAPSULATED LED LAMP AND LUMINAIRE ~71:NORDLAND OPERATIONS (PTY) LTD, 52 Fransen Street, Chamdor,, South Africa ~72: DU PLESSIS, Urbain~

2025/09042 ~ Complete ~54:SNATCH BLOCK ~71:SAFE-T-PACK (PTY) LIMITED, 10 Mahogany Avenue, Klerkindustria, South Africa ~72: BROWN, Paul;HOLLERAN, Clive~ 33:ZA ~31:2024/08178 ~32:30/10/2024

2025/09046 ~ Complete ~54:PEPTIDE INHIBITORS OF INTERLEUKIN-23 RECEPTOR AND THEIR USE TO TREAT INFLAMMATORY DISEASES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America;Protagonist Therapeutics, Inc., 7707 Gateway Boulevard, Suite 140, NEWARK 94560, CA, USA, United States of America ~72: BHANDARI, Ashok;BIANCHI, Elisabetta;BOURNE, Gregory Thomas;BRANCA, Danila;COSTANTE, Roberto;FREDERICK, Brian Troy;INGENITO, Raffaele;PATCH, Raymond;SOMANI, Sandeep;SUN, Chengzao~ 33:US ~31:62/961,624 ~32:15/01/2020

2025/09051 ~ Complete ~54:ELECTROLYSER CELL UNITS WITH FLAT SEPARATOR, AND A METHOD FOR MANUFACTURING AN ELECTROLYSER CELL UNIT ~71:CERES INTELLECTUAL PROPERTY COMPANY LIMITED, Viking House, Foundry Lane, United Kingdom ~72: GAWEL, Duncan Albert Wojciech;HERCZ, Zoltan;HJALMARSSON, Per;NOBBS, Christopher James~ 33:GB ~31:2305181.6 ~32:06/04/2023

2025/09060 ~ Complete ~54:METHODS AND COMPOSITIONS FOR ICAFOLIN HERBICIDE TOLERANCE ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST. LOUIS 63167, MO, USA, United States of America ~72: KÜPPER, Anita;LARUE, Clayton T.~ 33:US ~31:63/508,094 ~32:14/06/2023;33:US ~31:63/606,492 ~32:05/12/2023

2025/09062 ~ Complete ~54:THERMAL ENERGY STORAGE SYSTEMS WITH IMPROVED SEISMIC STABILITY ~71:RONDO ENERGY, INC., 1960 North Loop Road, United States of America ~72: BURVILL, Hayden;BUTLER, Brayden;NIYETBEK, Eldana;VON BEHRENS, Peter Emery;WEIBEL, Drew;WHITNEY, John~ 33:US ~31:63/459,540 ~32:14/04/2023;33:US ~31:63/578,139 ~32:22/08/2023;33:US ~31:63/626,501 ~32:29/01/2024;33:US ~31:63/627,523 ~32:31/01/2024

2025/09063 ~ Provisional ~54:EASY BUDGET MANAGEMENT SOLUTION ~71:John Masoko, 564 The Oaks Estate, Pretoria, South Africa ~72: John Masoko~

2025/09041 ~ Complete ~54:A METHOD OF VALORISING A SOLID WASTE PRODUCT ~71:UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, 1 Jan Smuts Avenue, Braamfontein, Johannesburg, 2000, South Africa ~72: ALAN SHEMI;MICHAEL BODUNRIN;SEHLISELO NDLOVU~ 33:ZA ~31:2023/03981 ~32:30/03/2023

2025/09034 ~ Provisional ~54:SLURRY PUMP ~71:BATTLEMAX (PTY) LTD, 592 Barolong Street, Mooiplaats 355-Jr, South Africa ~72: BUITENDAG, Marthinus Jacobus;PIENAAR, Johannes Theodorus~

2025/09038 ~ Complete ~54:EXPERIMENTAL DEVICE FOR WATERLOGGING TOLERANCE SIMULATION OF KIWIFRUIT ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: GONG Luping;LI Zhi;MA Fenglian;MA Yuhang;SI Wenjing;ZHANG Qiang;ZHU Tao~

2025/09047 ~ Complete ~54:ULTRATHIN AEROSOL FIRE-EXTINGUISHING AGENT AND PRODUCTION PROCESS THEREFOR ~71:HUBEI JIANDUN FIRE TECHNOLOGY CO., LTD., No.199 Huaxi Road, Biological Industrial Park, China (Hubei) Free Trade Zone, Yichang Area, Yichang, Hubei, 443000, People's Republic of China ~72: HUANG, Rui;LI, Xianjun;LIU, Xinyu;LU, Fagui;YANG, Fei;ZOU, Beibei~ 33:CN ~31:202310607723.7 ~32:24/05/2023

2025/09050 ~ Complete ~54:PRE-FUSION-STABILIZED CMV GB PROTEIN NANOSTRUCTURES ~71:UNIVERSITY OF WASHINGTON, 1100 NE Campus Parkway, Suite 200, United States of America ~72: DOWLING, Quinton, M.;ELLIS, Daniel;KING, Neil, P.;VEESLER, David;WALLS, Alexandra, C.~ 33:US ~31:63/499,381 ~32:01/05/2023

2025/09061 ~ Complete ~54:SYSTEMS AND METHODS FOR PROVIDING AN EMERGENCY SUPPLY OF WATER WITHIN A DWELLING ~71:ARYE, Shahr, P.O.B. 168, Israel ~72: ARYE, Shahr~ 33:IL ~31:302572 ~32:01/05/2023

2025/09036 ~ Provisional ~54:BACKUP AMPLIFIER ASSEMBLY ~71:UNITRONICS (PTY) LTD., 14 Keurboom Avenue, Westridge, SOMERSET WEST 7130, Western Cape, SOUTH AFRICA, South Africa ~72: THEUNIS, Elcardo Randall~

2025/09057 ~ Complete ~54:ROCKING FURNITURE MEMBER WITH POWER SYNCHRONOUS MECHANISM ~71:La-Z-Boy Incorporated, One La-Z-Boy Drive, MONROE 48162, MI, USA, United States of America ~72: LAPOINTE, Larry P.~ 33:US ~31:18/143,240 ~32:04/05/2023

2025/09066 ~ Provisional ~54:CELLPHONE POCHE NECK POCKET ~71:PERFIDIA TRADING AND PROJECTS, F959 MOFOLO ROAD, South Africa ~72: Perfidia Sibongile Khuzwayo~

2025/09053 ~ Complete ~54:MODIFIED SINGLE-DOMAIN ANTIBODIES ~71:ODYSSEY THERAPEUTICS, INC., 51 Sleeper Street, Suite 800, United States of America ~72: HUBER, Ferdinand;PREISS, Laura;SEIFRIED, Annegrit;STUWE, Tobias~ 33:US ~31:63/467,208 ~32:17/05/2023

2025/09055 ~ Complete ~54:CYP11A1 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: LI, Yao;LIU, Xin;PEI, Yunpeng;SHI, Shaohui;SHI, Zongjun;SHU, Tianbo;TANG, Pingming;WANG, Pengcheng;WANG, Yaoling;YAN, Pangke;ZHANG, Chen;ZHANG, Guobiao;ZHONG, Qijie~ 33:CN ~31:202310320916.4 ~32:29/03/2023;33:CN ~31:202310428094.1 ~32:20/04/2023;33:CN ~31:202310667272.6 ~32:07/06/2023;33:CN ~31:202310821299.6 ~32:06/07/2023;33:CN ~31:202310979027.9 ~32:04/08/2023;33:CN ~31:202311059482.3 ~32:22/08/2023;33:CN ~31:202311216619.1 ~32:20/09/2023;33:CN ~31:202311669033.0 ~32:07/12/2023

2025/09064 ~ Provisional ~54:EASY CEMETERY MANAGEMENT SOLUTION ~71:John Masoko, 564 The Oaks Estate, Pretoria, South Africa ~72: John Masoko~

2025/09056 ~ Complete ~54:FUNGICIDAL COMBINATIONS, COMPOSITIONS AND METHOD OF APPLICATIONS THEREOF ~71:UPL Europe Supply Chain GmbH, Suurstoffi 37, ROTKREUZ/RISCH 6343, SWITZERLAND, Switzerland;UPL Mauritius Limited, 6th Floor, Suite 157B, Harbor Front Building, President John Kennedy Street, PORT LOUIS, MAURITIUS, Mauritius ~72: HUAIYIN, Wang;JEAN MARY, Zonato;RONALDO BUENO, Rodrigues~ 33:IN ~31:202341022974 ~32:29/03/2023

2025/09059 ~ Complete ~54:THERAPEUTIC USES AND DOSES OF LP(A) DISRUPTER COMPOUNDS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: URVA, Shweta~ 33:US ~31:63/511,209 ~32:30/06/2023

2025/09033 ~ Provisional ~54:COMPRESSED BEVERAGE PELLET SYSTEM AND METHOD OF MANUFACTURE (AMANDLA COFFEE PELLET SYSTEM) ~71:Buddy Hamedl, 5 scone palce, South Africa ~72: Buddy Hamedl~

2025/09037 ~ Provisional ~54:SWIMMING POOL CLEANING AID ~71:COTTY, Darryl Edward Albert, 99 Atholl Road, House B, ATHOLL, Sandton 2196, Gauteng, SOUTH AFRICA, South Africa;GREY, Hilary Joan, 99 Atholl Road, ATHOLL, Sandton 2196, Gauteng, SOUTH AFRICA, South Africa;VAN WYK, Petrus Jacobus, 72 Adelaar Crescent, RANDPARK RIDGE, Johannesburg 2188, Gauteng, SOUTH AFRICA, South Africa ~72: COTTY, Darryl Edward Albert~

2025/09049 ~ Complete ~54:BUFFER UNIT, PIERCING MECHANISM, AND AIRPORT FIREFIGHTING EQUIPMENT ~71:JIANGSU XCMG CONSTRUCTION MACHINERY RESEARCH INSTITUTE LTD., No.26,Tuolanshan Road,Xuzhou Economic Development Zone, Xuzhou, 221004, People's Republic of China ~72: Baohai ZHANG;Bing BAI;Jun LI;Yong ZHANG~ 33:CN ~31:202410995828.9 ~32:24/07/2024

2025/09065 ~ Provisional ~54:EASY INTELLIGENCE REPORTING SOLUTION ~71:John Masoko, 564 The Oaks Estate, Pretoria, South Africa ~72: John Masoko~

2025/09030 ~ Provisional ~54:SHEMBEKADE LIFE INSURANCE SYSTEM AND METHOD FOR CULTURAL, FAMILY AND RELIGIOUS LIFE EVENTS ~71:Docomo South Africa(PTY)LTD, 71 Migmatite Drive, South Africa ~72: Melvin Naidoo~ 33:ZA ~31:N/A ~32:27/10/2025

2025/09052 ~ Complete ~54:SUBTERRANEAN COMMUNICATIONS SYSTEM AND METHOD ~71:CMTE DEVELOPMENT LIMITED, Building 101, UQ Pinjarra Hills Campus 2436 Moggill Road Pinjarra Hills, Australia ~72: CANDU, David Apolo;PROCHON, Edward;TEAKLE, Alex;VAN, Luke;WHITEMAN, Dylan;WICKS, Byron Neil~ 33:AU ~31:2023900984 ~32:04/04/2023

2025/09058 ~ Complete ~54:TORQUE TUBE INTERFACE WEAR GUARD ~71:Array Tech, Inc., 3901 Midway Place NE, ALBUQUERQUE 87109, NM, USA, United States of America ~72: KRAUTBAUER, Kevin;SCHUKNECHT, Nathan~ 33:US ~31:63/504,340 ~32:25/05/2023

2025/09031 ~ Provisional ~54:LABOLA INSURANCE SYSTEM AND METHOD FOR CULTURAL MARRIAGE OBLIGATIONS ~71:Docomo South Africa(PTY)LTD, 71 Migmatite Drive, South Africa ~72: Melvin Naidoo~ 33:ZA ~31:N/A ~32:27/10/2025

2025/09045 ~ Complete ~54:DIHYDROBENZOFURAN AND INDEN ANALOGS AS CARDIAC SARCOMERE INHIBITORS ~71:Cytokinetics, Inc., 280 East Grand Avenue, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: ASHCRAFT, Luke W.;CHUANG, Chihyuan;MORGAN, Bradley P.;VANDERWAL, Mark;WANG, Wenye~ 33:US ~31:62/619,643 ~32:19/01/2018;33:US ~31:62/745,724 ~32:15/10/2018

2025/09032 ~ Provisional ~54:SHEMBEKADE LIFE INSURANCE SYSTEM AND METHOD FOR CULTURAL, FAMILY AND RELIGIOUS LIFE EVENTS ~71:Docomo South Africa(PTY)LTD, 71 Migmatite Drive, South Africa ~72: Melvin Naidoo~ 33:ZA ~31:N/A ~32:27/10/2025

2025/09039 ~ Complete ~54:A SHADING STRUCTURE FOR PLANTS ~71:KJA Group Holdings (Pty) Ltd, Portion1 Maloney's Eye Farm, Brandvlei Road, Magaliesburg, 1739, North West Province, SOUTH AFRICA, South Africa ~72: Kotze, Johannes Arnoldus~ 33:ZA ~31:2024/01055 ~32:01/08/2024

2025/09043 ~ Complete ~54:RAIL ROAD CAR TRUCK BOLSTER ~71:National Steel Car Limited, 600 Kenilworth Avenue North, HAMILTON L8N 3J4, ONTARIO, CANADA, Canada ~72: KHAN, Usman;MOLOODI, Sina~ 33:US ~31:62/587,736 ~32:17/11/2017

2025/09044 ~ Complete ~54:JOINT SYSTEM ~71:DOUGAN H. CLARKE, 1000 Se 8th Street, Hialeah, Florida, 33010, United States of America ~72: DOUGAN H CLARKE~ 33:US ~31:63/455,547 ~32:29/03/2023;33:US ~31:18/621,491 ~32:29/03/2024

- APPLIED ON 2025/10/29 -

2025/09195 ~ Provisional ~54:AN ACTIVE ANCHORING AND POWER GENERATION SYSTEM FOR PIPELINE DEPLOYMENT ~71:Thabiso Mike Letlala, 2404 Phase 2, South Africa ~72: Thabiso Mike Letlala~

2025/09097 ~ Complete ~54:COMPUTER COLD START AND HOT-PLUG TESTING DEVICE ~71:Zhengzhou University of Aeronautics, No. 2, University Middle Road, Zhengzhou City, Henan Province, People's Republic of China ~72: Gao Jie;Li Deming;Li Jiale;Shen Yang;Wu Qingtao;Xu Jingyang;Zhang Xiaoyu;Zhao Zhongtang~

2025/09098 ~ Complete ~54:SYNERGISTIC BACTERIOSTATIC COMPOSITION OF CHLOROGENIC ACID AND P-COUMARIC ACID ~71:China Agricultural University, No. 2 Yuanmingyuan West Road, HaiDian District, Beijing City, 100193, People's Republic of China ~72: LI Yixuan;LIU Yushu;WANG Xiaoyu;ZHANG Hao~

2025/09100 ~ Complete ~54:BISPECIFIC ANTIBODY, PHARMACEUTICAL COMPOSITION, AND USE
~71:AKESO BIOPHARMA CO., LTD., 6 Shennong Road, Torch Development Zone, People's Republic of China
~72: LI, Baiyong;XIA, Yu~ 33:CN ~31:202310327266.6 ~32:29/03/2023

2025/09101 ~ Complete ~54:A STABLE AGROCHEMICAL COMPOSITION ~71:UPL LIMITED, Uniphos House,
CD Marg, 11th Road, Madhu Park, Khar (West), India ~72: CHAVAN, Popat Ganesh;MUKHERJEE, Dev Varta~
33:IN ~31:202321023877 ~32:30/03/2023

2025/09116 ~ Complete ~54:DEVICES, METHODS AND APPARATUSES FOR IMPROVING CHANNEL STATE
INFORMATION MEASUREMENT AND REPORTING ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610
ESPOO, FINLAND, Finland ~72: DEGHEL, Matha;ZHENG, Naizheng~

2025/09119 ~ Complete ~54:METHODS AND APPARATUSES RELATING TO DETERMINING A
TRANSMISSION START TIME FOR AN UPLINK SIGNAL ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7,
02610 ESPOO, FINLAND, Finland ~72: BARACCA, Paolo;CAPOREL DEL BARRIO, Samantha;CAUDURO DIAS
DE PAIVA, Rafael;HAKOLA, Sami-Jukka;TOFT, Morten~ 33:GB ~31:2305118.8 ~32:06/04/2023

2025/09125 ~ Complete ~54:ANTIBODY OR ANTIGEN-BINDING FRAGMENT THEREOF, ANTIBODY-DRUG
CONJUGATE, AND USE THEREOF ~71:CHANGZHOU HANSON PHARMACEUTICAL CO., LTD., 1028 Liaohe
Road, Xinbei District, People's Republic of China;SHANGHAI HANSON BIOMEDICAL CO., LTD., Building 11,
No. 3728 Jinke Road, (Shanghai) Pilot Free Trade Zone, People's Republic of China ~72: CHEN, Simeng;WANG,
Leilei;ZHANG, Wei~ 33:CN ~31:202310513958.X ~32:08/05/2023

2025/09130 ~ Complete ~54:BICYCLIC HETEROARYLAMIDES HAVING GPR68 MODULATING ACTIVITY
~71:Recursion Pharmaceuticals, Inc., 41 S. Rio Grande Street, SALT LAKE CITY 84101, UT, USA, United States
of America ~72: NAIK, Manisha;OLSEN, Reid Hans Johnson;PAPACHRISTOS, Konstantinos;PRIME,
Michael;RICHARDS, Simon~ 33:GR ~31:20230100442 ~32:01/06/2023;33:GR ~31:20240100072
~32:05/02/2024

2025/09133 ~ Complete ~54:APPARATUS AND METHOD FOR FORMING A COVER LAYER FOR A CAKE
~71:DANIEL DAVIES, Parkdale Marton, Welshpool, SY21 8JJ, United Kingdom ~72: DANIEL DAVIES~
33:GB ~31:2304960.4 ~32:04/04/2023

2025/09136 ~ Complete ~54:SYNTHESIS OF RAS INHIBITORS ~71:REVOLUTION MEDICINES, INC., 700
Saginaw Drive, Redwood City, California, 94063, United States of America ~72: ROSS WANG;SHAOLING
LI;STEVE BALLMER;SURESH MANTHATI;XIAOJUN HUANG~ 33:US ~31:63/459,435 ~32:14/04/2023

2025/09109 ~ Complete ~54:THERMOPLASTIC POLYMER COMPOSITIONS CONTAINING STABILISER
MIXTURES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY,
Germany ~72: CHUA, Bee, Suan;GERSTER, Michèle;HERBST, Heinz;MUELLER, Daniel;THUERMER,
Andreas;WUNDERLICH-WIPPERT, Wiebke~ 33:EP ~31:23166481.4 ~32:04/04/2023

2025/09067 ~ Provisional ~54:FUTURE CELLPHONE BATTERY ~71:April Motaung, House 292/293, South
Africa ~72: April Motaung~

2025/09069 ~ Complete ~54:A FLAME-RETARDANT LAYER SPRAYING DEVICE FOR FLAME-RETARDANT
FABRIC ~71:Zhengzhou Zhongke Textile Technology Co., Ltd, No. 6 Zizhu Road, Zhongyuan District, Zhengzhou
City, Henan Province, 450007, People's Republic of China ~72: Hua Jinghua;Hua Ying;Li Jiakun;Wang Hongli~

2025/09072 ~ Complete ~54:AUTOMATIC MONITORING DEVICE FOR FIRE PREVENTION IN GOAF OF COAL
MINE UNDERGROUND ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Road, Xincheng

District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: YANG Yanhui;ZHANG Lulu;ZHANG Xuanxuan~

2025/09075 ~ Complete ~54:INSTRUMENT USED FOR MOXIBUSTION ~71:Anhui University of Chinese Medicine, No. 103 Meishan Road, Hefei City, Anhui Province, 230038, People's Republic of China ~72: Haosheng WU;Junzhe LUO;Meiqi ZHOU;Nenggui XU;Shengbing WU;Wenhui WANG;Wenyuan XU;Xuetao ZHANG~ 33:CN ~31:2025113453900 ~32:19/09/2025

2025/09081 ~ Complete ~54:NON-CONTINUOUS MAGNETIC LEVITATION CONVEYING SYSTEM ~71:Shenzhen Dongfang Dingsheng Technology Co., Ltd., 301, 3rd Floor, Building 102, No. 354, Juling Old Village, Jutang Community, Fucheng Street, Longhua District, Shenzhen City, Guangdong Province, 518000, People's Republic of China ~72: Jiateng ZHOU;Saihua LIAN~ 33:CN ~31:202510607606X ~32:13/05/2025

2025/09082 ~ Complete ~54:BOOBY TRAP ARRANGEMENT ~71:Abraham Josua LE ROUX, 15 Edgar Street, South Africa ~72: Abraham Josua LE ROUX~ 33:ZA ~31:2024/06089 ~32:08/08/2024

2025/09088 ~ Complete ~54:A FLUID RHEOLOGY CONCEPT BASED AUTOMATED FALLING BALL VISCOMETER FOR VISCOSITY MEASUREMENT OF NEWTONIAN FLUIDS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAVAN, Umesh;PATIL, Suvana~

2025/09110 ~ Complete ~54:RO INDEXING FOR MULTIPLE PRACH TRANSMISSIONS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: MYRBERG, Oskar;SU, Ling~ 33:CN ~31:PCT/CN2023/086674 ~32:06/04/2023

2025/09112 ~ Complete ~54:MOBILE TERMINATED-SMALL DATA TRANSMISSION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KOSKINEN, Jussi-Pekka;TURTINEN, Samuli, Heikki;WU, Chunli~

2025/09122 ~ Complete ~54:COLD-PRESSED SOLID AGGLOMERATE AND THE MANUFACTURING PROCESS THEREOF ~71:TECNORED DESENVOLVIMENTO TECNOLÓGICO S.A., Avenida Doutor Francisco Lessa Júnior, nº 2373, salas 01 a 06, Brazil ~72: AGRA, Anderson Azevedo;CAMPOS, Alex Milton Albergaria;DE OLIVEIRA, Ronald Lopes;GONÇALVES, Guilherme Francisco;GONÇALVES, Manoel Vítor Borel;POTTER, Stephen Michael~ 33:BR ~31:1020230075479 ~32:20/04/2023

2025/09127 ~ Complete ~54:METHOD OF SEALING A FLUID LEAKAGE PATH ~71:Origin Tech Ltd, Unit 3, Earlsway, Team Valley Trading Estate, Gateshead, TYNE AND WEAR NE11 0QG, UNITED KINGDOM, United Kingdom ~72: MARSDEN, John~ 33:GB ~31:2306255.7 ~32:27/04/2023

2025/09137 ~ Complete ~54:MACROCYCLIC RAS INHIBITORS ~71:REVOLUTION MEDICINES, INC., 700 Saginaw Drive, Redwood City, California, 94063, United States of America ~72: ADRIAN L GILL;AIDAN TOMLINSON;ANDREAS BUCKL;BENJAMIN D MADEJ;BERNADETTE K LATIMER;DYLAN E PARSONS;ELENA S KOLTUN;G. LESLIE BURNETT;JAMES CREGG;JOHN E KNOX;MICAH JAMES GLIEDT;NAING AAY;NGUYEN HONG QUANG LUU;SEVERIN THOMPSON~ 33:US ~31:63/457,859 ~32:07/04/2023

2025/09142 ~ Complete ~54:PROCESS FOR THE EXTRACTION OF BIOSTIMULANTS AND AMINO ACIDS FROM KELP ~71:OMNIA GROUP (PROPRIETARY) LIMITED, Building H, Monte Circle Office Park, 178 Montecasino Boulevard, Fourways, South Africa ~72: HUYSER, Johannes Jacobus;KLEINHANS, George;STANDER, Barend Frederik~ 33:ZA ~31:2023/03982 ~32:30/03/2023

2025/09079 ~ Complete ~54:AUTOMATIC PRESSING AND SEALING DEVICE FOR MUFFLE FURNACE ~71:HONGHE UNIVERSITY, Honghe Avenue, Mengzi City, Honghe Hani and Yi Autonomous Prefecture, Yunnan Province, 661100, People's Republic of China ~72: Chao YANG;Feng MO;Jibo QIAO;Kaiwei SONG;Xiaoqing YANG;Xuelu WANG;Yang CAO;Yingbo MAO~

2025/09068 ~ Provisional ~54:PLANT-BASED HYGIENIC COMPOSITION AND USE ~71:BLACK WATER RESOLUTION (PTY) LTD., 15 Wellington Road, Gardenvale, Kliprivier, Gauteng, 1454, South Africa ~72: ANTON VAN WYNGAARD~

2025/09070 ~ Complete ~54:METHOD AND SYSTEM FOR DYNAMIC MONITORING OF MINE ECOLOGICAL RESTORATION BASED ON HIGH-RESOLUTION REMOTE SENSING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan, Henan Province, 467041, People's Republic of China ~72: CHEN Lianjun;GUO Huanhuan;LU Chunyang;QU Qianlong;WEN Feng;YANG Yun;ZHOU Yushi~

2025/09078 ~ Complete ~54:SALES METHOD AND SALES SYSTEM ~71:Zeng Wenquan, Yuquanyuan Community, Yuquan West Road, Qindu District, Xianyang City, Shaanxi Province, 712000, People's Republic of China ~72: Zeng Wenquan~

2025/09086 ~ Complete ~54:A MODULAR CONSTRUCTION UNIT ~71:Goffredo Mugnaioni, 118 Casper Road, Fairland, Johannesburg, 2170, South Africa ~72: Goffredo Mugnaioni~ 33:ZA ~31:2024/05890 ~32:31/07/2024

2025/09087 ~ Complete ~54:A REAL-TIME CODE EDITOR SYSTEM USING WEBSOCKET TECHNOLOGY FOR COLLABORATIVE PROGRAMMING ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: SAKHARE, Sachin R.;SULTANPURE, Kavita A.~

2025/09090 ~ Complete ~54:A TEXT-TO-IMAGE GENERATIVE AI SYSTEM FOR PLANT PATHOLOGY AND RESEARCH ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: AHIRE, Lomesh Kautik;BANAIT, Satish Shankarrao;GAIKWAD, Sayali Sandip;HANDE, Ruchit Sudhakar;JADHAV, Diksha Promod;KAMBLE, Pranav Pramod;KARANDE, Samadhan Khanderao;MAHALLE, Parikshit Narendra;PISE, Ganesh Shivaji~

2025/09095 ~ Complete ~54:AN AI/VISION-BASED BIDIRECTIONAL TRANSLATOR FOR TWO-WAY SIGN AND SPEECH COMMUNICATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: KARANDIKAR, Varsha Narayan;SOLANKE, Anjali Gopinath;SOLANKE, Pratyush Prakash;SOLUNKE, Bajrang Lahuraj;SOMANI, Riya Sachin;SOMSETWAR, Akash Sunil;Sonawane, Poorva Naresh~

2025/09114 ~ Complete ~54:SPATIAL ADAPTATION FOR NETWORK ENERGY SAVING ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DEGHEL, Matha;LAKSHMINARAYANAPURAM KRISHNAKUMAR, Kamakshi;ZHENG, Naizheng~

2025/09117 ~ Complete ~54:INDICATING A TIMING ADVANCE GROUP ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DEGHEL, Matha;KOSKELA, Timo;TURTINEN, Samuli, Heikki;WU, Chunli~

2025/09124 ~ Complete ~54:COMPUTER-IMPLEMENTED METHOD FOR DETERMINING AT LEAST ONE PHYSICAL CONDITION OF A FARM ANIMAL TO BE EXAMINED ~71:SMAXTEC ANIMAL CARE GMBH, Sandgasse 36/2, Austria ~72: KLIEN, Florian;OBEREGGER, Alexander;ROHRHOFER, Christian;ROSENKRANZ, Stefan~ 33:AT ~31:A50804/2023 ~32:03/10/2023

2025/09132 ~ Complete ~54:NUCLEOSIDE ANALOG FOR 5'-PHOSPHONATE MODIFICATION AND OLIGONUCLEOTIDE PREPARED THEREFROM ~71:SHANGHAI ARGO BIOPHARMACEUTICAL CO., LTD., 2026, Room 1_203, 337 Shahe Road, Jiangqiao Town, Jiading District, Shanghai 201803, People's Republic of China ~72: DONGXU SHU;KAICHUN GU;PENGCHENG PATRICK SHAO~ 33:CN ~31:PCT/CN2023/086603 ~32:06/04/2023;33:CN ~31:PCT/CN2023/129195 ~32:02/11/2023

2025/09077 ~ Complete ~54:ATTACHMENT PORTION OF A REPLACEMENT BRUSH HEAD ~71:Ranir, LLC, 4701 East Paris, S.E., GRAND RAPIDS 49512, MI, USA, United States of America ~72: DISHON, Bryan J.~ 33:US ~31:63/713758 ~32:30/10/2024

2025/09084 ~ Complete ~54:A HYBRID 2D-3D VIRTUAL TRY-ON (VTON) SYSTEM FOR ENHANCED ONLINE SHOPPING EXPERIENCE ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAVHAN, Gajanan Himantrao;CHAVHAN, Pranali G.;GAIKWAD, Vidya S.;KARNIK, Madhuri P.;RATHI, Snehal R.;SHEWALE, Chaitali R.;WANKHEDE, Disha Sushant~

2025/09089 ~ Complete ~54:AN AI-DRIVEN FOOTBALL SCOUTING AND PERFORMANCE ANALYSIS SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHOITE, Sonali Prashant;GAIKWAD, Pranali Popat;GAIKWAD, Vishal Suresh;KHESE, Prateek Sandeep;Mirajkar, Riddhi R.;NAYAKWADI, Vishal N.;SHINGATE, Ayush Prashant;SURYAWANSHI, Amol Shivajirao~

2025/09093 ~ Complete ~54:A LUNG CANCER DETECTION SYSTEM BASED ON HYBRID LIGHTWEIGHT TRANSFER LEARNING AND ENSEMBLE MODELS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BANAIT, Satish Shankarrao;DHOTRE, Virendrakumar Anna;Joshi, Hrushikesh Jaiwant;MAHALLE, Parikshit Narendra;NARLAWAR, Vedika Pravin;PADATE, Gargi Sitaram;PISE, Ganesh Shivaji~

2025/09094 ~ Complete ~54:AN RFID TECHNOLOGY BASED SMART CHATBOT SYSTEM FOR REAL-TIME WAREHOUSE MAP PLOTTING ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: JADHAV, Deepali S.;JADHAV, Kshitij Ashok;JAKHADE, Sushant Makarand;JOSHI, Swarada Nandkishor;KADAM, Gauravi Nitin;SAKHARE, Sachin R.;SULTANPURE, Kavita A.~

2025/09099 ~ Complete ~54:BEE BIOVECTOR DISPENSER ~71:MWB HOLDINGS (PTY) LTD, 954 Sardinia Bay Road, Lovemore Park, South Africa ~72: BRUGGEMAN, Michiel;HARRIS, Jaimee~ 33:ZA ~31:2023/03918 ~32:29/03/2023

2025/09102 ~ Complete ~54:REMOVABLE COMPONENT OF A DUMP BODY OF A MACHINE ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 3501 N. FM Hwy 1417, United States of America ~72: HETTINGER, Daniel R.;PONNUCHAMY, Vaitheeswaran;WYLIN, Christopher L.~ 33:US ~31:18/141,772 ~32:01/05/2023

2025/09103 ~ Complete ~54:DEVICES AND METHODS FOR AN ELECTRO-OPTIC DUAL CRYSTAL VOLTAGE SENSOR ~71:MICATU INC., IST Center – Building 404, 315 Daniel Zenker Drive, United States of America ~72: BURDICK, David;KENNEDY, James;OSHETSKI, Michael;PRADHAN, Atul~ 33:US ~31:63/498,769 ~32:27/04/2023

2025/09129 ~ Complete ~54:ANTIBODIES TARGETING XCL1 AND METHODS OF USING THE SAME ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BEASLEY, Stephanie Lynn;GREALISH, Patrick Francis;LI, Jingxing;PAAVOLA, Chad D.;POORBAUGH, Joshua

Dade;RENSCHLER, Matthew Alan;TANG, Ying;WORTINGER, Mark Andrew~ 33:US ~31:63/504,051
~32:24/05/2023

2025/09138 ~ Complete ~54:SYNTHESIS OF RAS INHIBITORS ~71:REVOLUTION MEDICINES, INC., 700
Saginaw Drive, Redwood City, California, 94063, United States of America ~72: PAUL LOBBEN;ROSS
WANG;SHAOLING LI;STEVE BALLMER;XIAOJUN HUANG;YI LI~ 33:US ~31:63/459,385 ~32:14/04/2023

2025/09143 ~ Complete ~54:NEW CRYSTAL FORM OF ISOXAZOLINE URACIL COMPOUND, PREPARATION
METHOD, AND HERBICIDE AND USE ~71:JIANGSHAN (YICHANG) CROP TECHNOLOGY CO., LTD., North of
Gangxing Road and East of Tanshuxi Avenue, Yaojiagang Chemical Industrial Park, Dongshi Town, Zhijiang City,
Yichang, Hubei, 443200, People's Republic of China;NANTONG JIANGSHAN AGROCHEMICAL & CHEMICALS
CO., LTD., No. 998, Jiangshan Road, Economic and Technological Development Zone, Nantong, Jiangsu,
226000, People's Republic of China ~72: DONG, Lei;DU, Hui;WANG, Li;XU, Wei~ 33:CN ~31:202311851631.X
~32:28/12/2023

2025/09073 ~ Complete ~54:PEDESTAL REINFORCEMENT AND COMPOSITE FOUNDATION ~71:ARROW
POINT ENGINEERING (PTY) LTD, 26 Victoria Street, Oaklands, South Africa ~72: ELVIN, Alex;GEBREMESKEL,
Amanuel~ 33:ZA ~31:2024/01002 ~32:31/07/2024

2025/09071 ~ Complete ~54:TRANSFER OF INDICATOR MEANS TO A SURFACE AREA ~71:RICHARD JOHN
STEINBACH, 4 Doreen Crescent, Glenashley, South Africa ~72: STEINBACH, Richard John~
33:ZA ~31:2024/08177 ~32:30/10/2024

2025/09074 ~ Complete ~54:AUTOMATIC BALL SORTING AND STORAGE DEVICE WITH CLEANING AND
MAINTENANCE FUNCTIONS ~71:Qilu Normal University, o.36 Lishan Road, Lixia District, Jinan, Shandong
Province, 250200, People's Republic of China ~72: Qiang SUN~

2025/09076 ~ Complete ~54:METHOD FOR MANUFACTURING COMPOSITE FIBERBOARD PRODUCTS
~71:XANITA (PTY) LTD, 1 Range Road, Blackheath, South Africa ~72: Michael MCELWEE~
33:ZA ~31:2024/08300 ~32:04/11/2024

2025/09080 ~ Complete ~54:A DISTRIBUTED OPTIMIZATION SCHEDULING SYSTEM FOR DATA CENTERS
BASED ON ADMM ~71:GUANGXI TECHNOLOGICAL COLLEGE OF MACHINERY AND ELECTRICITY, No.
101, Daxue East Road, Xixiangtang District, Nanning City, Guangxi Zhuang Autonomous Region, 530007,
People's Republic of China ~72: Hong Jiang;Jingyang Jiang;Wenhao Liu~

2025/09083 ~ Complete ~54:AN AI BASED REAL-TIME ANALYTICAL SYSTEM FOR EVALUATION OF FETAL
CONDITION AND ITS MORTALITY PREDICTION FROM CARDIOTOGRAPHY (CTG) INFORMATION
~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR,
BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHINCHKAR, Piyush Raju;GAWALE, Mrunal
Samadhan;HOLE, Onkar Bharat;MAHALLE, Parikshit;WANKHADE, Shalini Vaibhav~

2025/09085 ~ Complete ~54:AN AI AND FEDERATED LEARNING-BASED SYSTEM FOR DETECTION AND
CLASSIFICATION OF BRAIN TUMOR ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER
MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BANAIT,
Satish Shankarrao;Kadam, Priyanka Amol;LONDHE, Aoudumber Dattatray;MAHALLE, Parikshit
Narendra;NARUTE, Shreya Suresh;NEVHAL, Sayali Laxman;PISE, Ganesh Shivaji~

2025/09105 ~ Complete ~54:CONSTRUCTION SYSTEM AND METHOD AND CONNECTION SYSTEM
THEREFOR ~71:PARKD LTD, 337 Harborne Street, Osborne Park, Australia ~72: MCUTCHEN, Peter~
33:AU ~31:2023901110 ~32:14/04/2023

2025/09111 ~ Complete ~54:RO DROPPING AND RA-RNTI CALCULATION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: AHMADIAN TEHRANI, Amir Mehdi;CHIARELLO, Leonardo;MARCONE, Alessio;MASO, Marco;NHAN, Nhat-Quang~ 33:US ~31:63/494,291 ~32:05/04/2023

2025/09120 ~ Complete ~54:POWER CONTROL FOR SIDELINK PHYSICAL SIDELINK FEEDBACK CHANNEL TRANSMISSION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: ABREU, Renato, Barbosa;JACOBSEN, Thomas, Haaning;KIILERICH PRATAS, Nuno, Manuel;LINDHOLM, Jari Olavi;LIU, Jian Guo;LIU, Yong;LUNTTILA, Timo, Erkki;WILDSCHKEK, Torsten;ZHENG, Naizheng~

2025/09123 ~ Complete ~54:CLC-1 INHIBITORS FOR USE IN THE TREATMENT OF MULTIPLE SCLEROSIS AND NEUROMUSCULAR DISEASES ~71:NMD PHARMA A/S, Palle Juul-Jensens Boulevard 82, Denmark ~72: KELLY, Nicholas Michael;PEDERSEN, Thomas Holm;PETERSEN, Thomas Kongstad;SAMPSON, Claire Margaret~ 33:EP ~31:23180395.8 ~32:20/06/2023;33:EP ~31:24157608.1 ~32:14/02/2024

2025/09126 ~ Complete ~54:CONFIGURABLE HANDHELD BIOLOGICAL ANALYZERS FOR IDENTIFICATION OF BIOLOGICAL PRODUCTS BASED ON RAMAN SPECTROSCOPY USING ARTIFICIAL INTELLIGENCE ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: MERIAGE, David;SOTO, Robert Joseph~ 33:US ~31:63/463,187 ~32:01/05/2023

2025/09104 ~ Complete ~54:FUSED BICYCLIC HETEROCYCLYL COMPOUNDS AS CCR4 MODULATORS ~71:AURIGENE ONCOLOGY LIMITED, 39-40, KIADB Industrial Area, Electronic City Phase II, India ~72: ABBINENI, Chandrasekhar;MIDUTURU, Chandrasekhar V;MUKHERJEE, Subhendu;SAMAJDAR, Susanta;TALLURI, Krishna Chaitanya~ 33:IN ~31:202341031205 ~32:02/05/2023;33:IN ~31:202341084043 ~32:09/12/2023

2025/09096 ~ Complete ~54:A FINGER ID HEALTH ANALYZER SYSTEM FOR PREDICTION BLOOD GROUP & KEY HEALTH METRICS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: JADHAV, Deepali S.;KALSHETTI, Aishwarya Rajkumar;KAPSE, Nikita Yashwant;KELZARKAR, Tanvi Bandu;KHARCHE, Vedant Ramesh;Kamble, Tanmay Nandkishor;SAKHARE, Sachin R.;SULTANPURE, Kavita A.~

2025/09106 ~ Complete ~54:COMPOSITION COMPRISING AN N-GUANYLAMINO ACID FOR DRINKING WATER APPLICATION ~71:EVONIK OPERATIONS GMBH, RELINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: KLÜNEMANN, Martina;MUSIC, Arif;NORDSCHILD, Anja;RIESEN, Ursula;RONNEBURG, Axel;WHELAN, Rose~ 33:EP ~31:23166306.3 ~32:03/04/2023

2025/09108 ~ Complete ~54:COMPOSITION COMPRISING GUANIDINOACETIC ACID FOR USE IN THE TREATMENT AND/OR PROPHYLAXIS OF A COCCIDIOSIS INDUCED CONDITION IN POULTRY ~71:EVONIK OPERATIONS GMBH, RELINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: DE PAULA DORIGAM, Juliano, Cesar;KLÜNEMANN, Martina;WHELAN, Rose~ 33:EP ~31:23166269.3 ~32:03/04/2023

2025/09091 ~ Complete ~54:AN EXPLAINABLE ARTIFICIAL INTELLIGENCE BASED DIABETIC RETINOPATHY DETECTION AND SEVERITY CLASSIFICATION SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BANAIT, Satish Shankarrao;CHEDGE, Anchit Jayant;JAIN, Nishka Kamal;KULKARNI, Rutuja Ganesh;MAHALLE, Parikshit Narendra;PISE, Ganesh Shivaji;SUHAGIR, Om Yogesh~

2025/09092 ~ Complete ~54:3D ARCH-SHAPED CARBON NANOTUBE HOLLOW FIBER MEMBRANE SOLAR INTERFACIAL EVAPORATOR AND PREPARATION METHOD AND APPLICATION THEREOF ~71:DALIAN

MARITIME UNIVERSITY, No.1 Linghai Road, Lingshui Street, Ganjingzi District, Dalian City, Liaoning Province, 116026, People's Republic of China ~72: Ping,TAO;Xinfei,FAN;Yuanlu,XU~ 33:CN ~31:2025101234404 ~32:26/01/2025

2025/09107 ~ Complete ~54:CLEANING COMPOSITION AND METHOD FOR CLEANING METALLIC SURFACES TO PREVENT RINSE BATH CORROSION ~71:CHEMETALL GMBH, TRAKEHNER STRASSE 3, 60487 FRANKFURT, GERMANY, Germany ~72: KASPER, Christoph;LUECKERATH, Thorsten;WASCHKOWSKI, Lara-Marie~ 33:EP ~31:23166464.0 ~32:04/04/2023

2025/09115 ~ Complete ~54:HANDLING TAT EXPIRY OF MULTIPLE TAGS ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DEGHEL, Matha;KOSKELA, Timo;TURTINEN, Samuli, Heikki;WU, Chunli~

2025/09118 ~ Complete ~54:REFERENCE SAMPLE SELECTION IN BLOCK VECTOR GUIDED CROSS-COMPONENT PREDICTION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: ASTOLA, Pekka;GHAZNAVI YOUVALARI, Ramin;LAINEMA, Jani~ 33:US ~31:63/494,849 ~32:07/04/2023

2025/09121 ~ Complete ~54:SPATIAL METADATA DIRECTION HARMONIZATION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: LAAKSONEN, Lasse, Juhani;LAITINEN, Mikko-Ville;PAULUS, Jouni, Kristian;PIHLAJAKUJA, Tapani~ 33:GB ~31:2304791.3 ~32:31/03/2023

2025/09128 ~ Complete ~54:MUTANT INTERLEUKIN 15 EXPRESSING IMMUNE CELLS ~71:Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, TARRYTOWN 10591, NY, USA, United States of America;Seattle Children's Hospital d/b/a Seattle Children's Research Institute, 1900 Ninth Avenue, SEATTLE 98101, WA, USA, United States of America ~72: APPELBAUM, Jacob S.;ASTRAKHAN, Alexander;GUSTAFSON, Joshua;JENSEN, Michael C.;LEUNG, Wai-Hang~ 33:US ~31:63/499,467 ~32:01/05/2023;33:US ~31:63/502,875 ~32:17/05/2023

2025/09131 ~ Complete ~54:SYNTHESIS OF ORELLANINE ~71:Oncorena AB, Medicon Village, Scheeleorget 1, LUND 22381, SWEDEN, Sweden ~72: FALCK, Pål;HARALDSSON, Börje;MUSIL, Tibor;WAHLSTRÖM, Niklas~ 33:US ~31:63/499,787 ~32:03/05/2023

2025/09134 ~ Complete ~54:COMPOSITIONS FOR INDUCING RAS GTP HYDROLYSIS AND USES THEREOF ~71:REVOLUTION MEDICINES, INC., 700 Saginaw Drive, Redwood City, California, 94063, United States of America ~72: AIDAN TOMLINSON;DAVID E WILDES;ELENA S KOLTUN;JAMES CREGG;JOHN E KNOX;KYLE SEAMON~ 33:US ~31:63/455,672 ~32:30/03/2023;33:US ~31:63/528,255 ~32:21/07/2023

2025/09139 ~ Complete ~54:DECODING METHOD, ENCODING METHOD, DECODER, AND ENCODER ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin, Wusha, Chang'an Dongguan, Guangdong, 523860, People's Republic of China ~72: FAN WANG;LAI ZHANG~

2025/09140 ~ Complete ~54:ENCODING/DECODING METHOD, CODE STREAM, ENCODER, DECODER, AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin, Wusha, Chang'an Dongguan, Guangdong, 523860, People's Republic of China ~72: FAN WANG;LAI ZHANG~

2025/09141 ~ Complete ~54:ENCODING/DECODING METHOD, CODE STREAM, ENCODER, DECODER AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18,

Haibin, Wusha, Chang'an Dongguan, Guangdong, 523860, People's Republic of China ~72: FAN WANG;LAI ZHANG~

2025/09144 ~ Complete ~54:ISOXAZOLINE URACIL COMPOUND CRYSTALLIZATION METHOD AND APPLICATION THEREOF ~71:JIANGSHAN (YICHANG) CROP TECHNOLOGY CO., LTD., North of Gangxing Road and East of Tanshuxi Avenue, Yaojiagang Chemical Industrial Park, Dongshi Town, Zhijiang City, Yichang, Hubei, 443200, People's Republic of China;NANTONG JIANGSHAN AGROCHEMICAL & CHEMICALS CO., LTD., No. 998, Jiangshan Road, Economic and Technological Development Zone, Nantong, Jiangsu, 226000, People's Republic of China ~72: DONG, Lei;DU, Hui;LIN, Yin;WANG, Li;XU, Wei~ 33:CN ~31:202311835052.6 ~32:28/12/2023

2025/09145 ~ Complete ~54:AN ORGAN CONTAINER, AN IMPEDANCE METER FOR THE ORGAN CONTAINER, AND A METHOD FOR DEFINING A DETERIORATION STATE OF AN ORGAN ~71:TAMPERE UNIVERSITY FOUNDATION SR, c/o Tampereen yliopisto, Finland ~72: HYTTINEN, Jari;TANSKANEN, Jarno~ 33:FI ~31:20235651 ~32:09/06/2023

2025/09113 ~ Complete ~54:BEAM INDICATION FOR LAYER 1/LAYER 2 TRIGGERED MOBILITY (LTM) ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: GOYAL, Sanjay;KOSKELA, Timo;LADDU, Keeth, Saliya, Jayasinghe~ 33:US ~31:63/494,355 ~32:05/04/2023

2025/09135 ~ Complete ~54:MACROCYCLIC RAS INHIBITORS ~71:REVOLUTION MEDICINES, INC., 700 Saginaw Drive, Redwood City, California, 94063, United States of America ~72: ADRIAN L GILL;AIDAN TOMLINSON;ANDREAS BUCKL;ANNE V EDWARDS;DYLAN E PARSONS;ELENA S KOLTUN;G. LESLIE BURNETT;JAMES CREGG;JOHN E KNOX;KINGSLEY Y WU;MARK TYE;NGUYEN HONG QUANG LUU;SEVERIN THOMPSON~ 33:US ~31:63/457,850 ~32:07/04/2023;33:US ~31:63/611,585 ~32:18/12/2023;33:US ~31:63/624,178 ~32:23/01/2024

- APPLIED ON 2025/10/30 -

2025/09196 ~ Provisional ~54:FIREBALLS BRIQUETTES ~71:Charl Myburgh, 888 Sovereign Road, South Africa ~72: Charl Myburgh~

2025/09178 ~ Complete ~54:TRANSCRANIAL ALTERNATING CURRENT STIMULATION (TACS) ~71:Fisher Wallace Laboratories Inc., 630 Flushing Avenue, Suite 104, BROOKLYN 11206, NY, USA, United States of America ~72: ROMAN, Kelly~ 33:US ~31:63/493,312 ~32:30/03/2023

2025/09183 ~ Complete ~54:METHOD FOR PRODUCING A SINGLE- OR MULTI-LAYER FILM, SINGLE- OR MULTI-LAYER, EXTRUDED, SIMULTANEOUSLY BIAXIALY STRETCHED, AND THERMOFIXED FILM, AND CORRESPONDING USES ~71:KUHNE ANLAGENBAU GMBH, Einsteinstrasse 20, Germany ~72: SCHIFFMANN, Jürgen Michael~ 33:DE ~31:10 2023 111 077.2 ~32:28/04/2023

2025/09186 ~ Complete ~54:PYRAZOLE COMPOUND AND HARMFUL ORGANISM CONTROL AGENT ~71:NISSAN CHEMICAL CORPORATION, 5-1, Nihonbashi 2-chome, Chuo-ku, Tokyo, 1036119, Japan ~72: AYU NAKAMURA;KATSUYA SAITO;KENKICHI NOTO;KENTARO KAWAI;MASATO OTANI;MOTOHIRO KAJI~ 33:JP ~31:2023-059146 ~32:31/03/2023;33:JP ~31:2023-075183 ~32:28/04/2023;33:JP ~31:2023-104517 ~32:26/06/2023;33:JP ~31:2023-137545 ~32:25/08/2023;33:JP ~31:2023-206333 ~32:06/12/2023;33:JP ~31:2023-206334 ~32:06/12/2023

2025/09188 ~ Complete ~54:APPARATUS AND METHOD FOR PRIORITIZED TWO STAGE MONOSTATIC SENSING OF AN OBSTACLE ~71:INTERDIGITAL PATENT HOLDINGS, INC., 200 Bellevue Parkway, Suite 300, Wilmington, Delaware, 19809, United States of America ~72: FUMIHIRO HASEGAWA;GHYSLAIN

PELLETIER;JONGHYUN PARK;MOON-IL LEE;OGNEN OGNENOSKI;PAUL MARINER;REMUN KOIRALA~
33:US ~31:63/465,054 ~32:09/05/2023

2025/09191 ~ Complete ~54:SILENCED ANTIBODY-BASED ANTI-MET CONSTRUCTS FOR THE TREATMENT
OF TUMORS AND METASTASIS ~71:PIERRE FABRE MEDICAMENT, Les Cauquillous, France ~72: KUNZ,
Christian;LAINÉ, Anne-Laure;OTTAVIANI, Giorgio;ROSPORT, Kai;ULLAH, Mohammed;URLINGER, Stefanie~
33:EP ~31:23176738.5 ~32:01/06/2023

2025/09192 ~ Provisional ~54:CRIME EMERGENCY APP SYSTEM ~71:Mapula Millicent Mailula, Oliver Tambo
drive Seshego zone 3 1632, South Africa ~72: Mapula Millicent Mailula~

2025/09197 ~ Provisional ~54:BILLING CUSTOMERS OF ILLEGAL POWER CONNECTIONS - ESKOM AND
CITY POWER AND ANY OTHER GOVERNMENT POWER SUPPLIER ~71:Munzhedzi Grace Mavula, unit 10
Midland Estate, South Africa ~72: Munzhedzi Grace Mavula~

2025/09161 ~ Complete ~54:EXTERNAL CORNER HANGING STRUCTURE AND INSTALLATION METHOD
FOR PREFABRICATED KITCHEN WALL ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH
TECH ZONE, XINYU CITY, People's Republic of China ~72: FAN, Donajiao;LIAO, Feifei;MA, Caiwei;XU,
Li;ZENG, Wenlin;ZHANG, Yuqing~

2025/09423 ~ Provisional ~54:UNIVERSAL-SIM BASED IDENTITY SYSTEM WITH INTEGRATED PAYMENT
AND COMPLIANCE FUNCTION ~71:FRANCOIS PIERRE JOUBERT, 521,20th Ave, Rietfontein Pretoria, South
Africa ~72: FRANCOIS PIERRE JOUBERT~

2025/09148 ~ Complete ~54:METHODS FOR IDENTIFYING SMV RESISTANCE IN GENETICALLY MODIFIED
SOYBEANS USING GENE EDITING AND INTERFERENCE ~71:Development Center of Science and
Technology, MARA, No.18-A Ronghua South Road, Beijing Economic-Technological Development Zone (BDA),
Beijing, 101320, People's Republic of China;Jilin Academy of Agricultural Sciences (Northeast Agricultural
Research Center of China), No.1363 Shengtai Street, Jingyue High-tech Development Zone, Changchun, Jilin,
130119, People's Republic of China ~72: CHEN, Hong;CHEN, Ziyang;FU, Wei;LI, Shijie;NIU, Lu;SONG,
Xinyuan;WANG, Baifeng;WANG, Yunpeng;WEN, Dequan~ 33:CN ~31:202510549354 .X ~32:28/04/2025

2025/09159 ~ Complete ~54:INJECTION MOLDED SCREENING APPARATUSES AND METHODS
~71:DERRICK CORPORATION, 590 Duke Road, Buffalo, United States of America ~72: DEMAY,
Alex;STODOLKA, Kurt~ 33:US ~31:63/328,228 ~32:06/04/2022

2025/09164 ~ Complete ~54:A GEOLOCATION TRACKING BASED COMMUNITY-DRIVEN ADOPTION
SYSTEM FOR STRAY ANIMALS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET
RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHABIRE, Rohit
Mahaveer;GAVALI, Yash Ashok;GODBOLE, Sejal Sampat;MEHTA, Pradnya Samit;SABLE, Nilesh
Popat;SHENDE, Prachi Pravin.~

2025/09168 ~ Complete ~54:GASIFICATION BURNER, GASIFICATION FURNACE, AND IGNITION METHOD
FOR GASIFICATION BURNER ~71:CHANGZHENG ENGINEERING CO., LIMITED, No.141, Jinghai 4th Road,
People's Republic of China ~72: CHEN, Shuanzhu;CHENG, Wenxiang;CUI, Kunda;FAN, Zhipeng;GAO,
Ruiheng;GUO, Jinjun;LI, Lizhi;LI, Yang;MA, Dong;SU, Xingpeng;WANG, Guang;WANG, Sixu;YAO,
Xinxin;ZHANG, Xuezhi~ 33:CN ~31:202310477279.1 ~32:27/04/2023;33:CN ~31:202321007797.9
~32:27/04/2023

2025/09173 ~ Complete ~54:THERAPEUTIC LIQUID COMPOSITIONS ~71:Kenvue Brands LLC, 1 Kenvue Way, SUMMIT 07901, NJ, USA, United States of America ~72: HOXHA, Gersi;KOLL, Gregory E.;ZESZOTARSKI, Jonathan~ 33:US ~31:63/493,395 ~32:31/03/2023;33:US ~31:18/615,156 ~32:25/03/2024

2025/09185 ~ Complete ~54:METHOD OF TREATMENT WITH ILOPERIDONE ~71:VANDA PHARMACEUTICALS INC., 2200 Pennsylvania Ave. NW, Suite 300E, United States of America ~72: POLYMERPOULOS, Mihael;SMIESZEK, Sandra~ 33:US ~31:63/505,884 ~32:02/06/2023

2025/09157 ~ Complete ~54:PREVENTIVE MEDICINE PROMOTION MODEL DISPLAY DEVICE ~71:JIANGSU COLLEGE OF NURSING, JIANGSU COLLEGE OF NURSING, SCHOOL OF MEDICAL SCIENCE AND LABORATORY MEDICINE, HUAI'AN CITY, People's Republic of China ~72: WANG, Rui~

2025/09151 ~ Complete ~54:HIGH CONCENTRATION VEGF RECEPTOR FUSION PROTEIN CONTAINING FORMULATIONS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: GRAHAM, Kenneth, S.;WADHWA, Saurabh~ 33:US ~31:62/669,506 ~32:10/05/2018;33:US ~31:62/752,127 ~32:29/10/2018;33:US ~31:62/769,876 ~32:20/11/2018;33:US ~31:62/813,882 ~32:05/03/2019

2025/09156 ~ Complete ~54:SILICON-DOPED HYDROXYAPATITE COMPOSITE BIOCERAMIC MATERIAL AND APPLICATIONS THEREOF ~71:ZHEJIANG BIOCARE BIOTECHNOLOGY CO. LTD., 1st Floor, North Side of Building 7, Medical Device Technology Industrial Park, No. 1 Yunhai Road, Lihai Street, Yuecheng District, Shaoxing City, People's Republic of China ~72: Chuan YE;Long YANG;Qiang ZOU;Siwei LUO;Zhengfeng PAN;Zhijie YANG~ 33:CN ~31:2025114287240 ~32:30/09/2025

2025/09166 ~ Complete ~54:SMART HOME AUTOMATION SYSTEM USING ESP32 WITH BLYNK IOT AND ALEXA INTEGRATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHASIN, Maanav Vishal;KHATARE, Harshwardhan Prahlad;KHATRI, Archit Dharmesh;KURUNDKAR, Sangeeta Vishwas;MALE, Piyush Vijaykumar~

2025/09172 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: BOCOKIC, Vladica;DENIGOT, Marion;KARAGIANNI, Katerina;RAGAZZINI, Emilie~ 33:GB ~31:2304823.4 ~32:31/03/2023

2025/09177 ~ Complete ~54:METHOD OF PRODUCING A HYDROGEN STREAM AND AN OXYGEN STREAM AND PASSING THE HYDROGEN STREAM AND THE OXYGEN STREAM TO A REVERSE WATER-GAS SHIFT REACTOR ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: AHMADIANI, Mohammad;CLAXTON, Henry Arthur;COOK, Amelia Lorna Solveig;CORBOS, Elena Cristina;HAMILTON, Hugh Gavin Charles~ 33:GB ~31:2308441.1 ~32:07/06/2023

2025/09152 ~ Complete ~54:HIGH CONCENTRATION VEGF RECEPTOR FUSION PROTEIN CONTAINING FORMULATIONS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: GRAHAM, Kenneth, S.;WADHWA, Saurabh~ 33:US ~31:62/669,506 ~32:10/05/2018;33:US ~31:62/752,127 ~32:29/10/2018;33:US ~31:62/769,876 ~32:20/11/2018;33:US ~31:62/813,882 ~32:05/03/2019

2025/09153 ~ Complete ~54:HIGH CONCENTRATION VEGF RECEPTOR FUSION PROTEIN CONTAINING FORMULATIONS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: GRAHAM, Kenneth, S.;WADHWA, Saurabh~ 33:US ~31:62/669,506

~32:10/05/2018;33:US ~31:62/752,127 ~32:29/10/2018;33:US ~31:62/769,876
~32:20/11/2018;33:US ~31:62/813,882 ~32:05/03/2019

2025/09158 ~ Complete ~54:AUXILIARY DEVICE FOR MODERN DANCE PROFESSIONAL QUALITY PRACTICE ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: LI, Yunling;LUO, Min;WANG, Yun;YUAN, Yuping;ZHANG, Shenyang;ZHOU, Jun~

2025/09180 ~ Complete ~54:A METHOD AND SYSTEM FOR HASHING A FINGERPRINT MINUTIA TEMPLATE ~71:CSIR, CSIR Campus, Meiring Naude Road, Brummeria, Pretoria 0184, SOUTH AFRICA, South Africa ~72: BARBOUR, Graham David~ 33:NL ~31:2034473 ~32:30/03/2023;33:NL ~31:2034475
~32:30/03/2023;33:NL ~31:2034476 ~32:30/03/2023

2025/09149 ~ Complete ~54:HIGH CONCENTRATION VEGF RECEPTOR FUSION PROTEIN CONTAINING FORMULATIONS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: GRAHAM, Kenneth, S.;WADHWA, Saurabh~ 33:US ~31:62/669,506
~32:10/05/2018;33:US ~31:62/752,127 ~32:29/10/2018;33:US ~31:62/769,876
~32:20/11/2018;33:US ~31:62/813,882 ~32:05/03/2019

2025/09150 ~ Complete ~54:METHODS FOR THE STORAGE OF WHOLE BLOOD, AND COMPOSITIONS THEREOF ~71:HEMANEXT INC., 99 Hayden Avenue, Building B, Suite 620, United States of America ~72: YOSHIDA, Tatsuro~ 33:US ~31:62/163,269 ~32:18/05/2015

2025/09154 ~ Complete ~54:HEATING SYSTEM FOR FLOOR RADIANT CONVECTION HEATING PIPES USED IN DUAL WATER CIRCUITS ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: CHEN Haiyan;FU Haoka;JIN Junjie;LIU Feifan;LU Lu;XU Hongbin;YU Tingting;ZHAO Hengshi~

2025/09171 ~ Complete ~54:MATERIAL IMAGING SYSTEM AND METHOD ~71:ESCO GROUP LLC, 1631 NW Thurman Street, United States of America ~72: MCKINLEY, Timothy A.~ 33:US ~31:63/464,917
~32:08/05/2023

2025/09174 ~ Complete ~54:EMULSIFIABLE CONCENTRATE (EC) FORMULATION WITH THIENCARBAZONE-METHYL ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: PATZER, Kelly;PEREZ CATALAN, Julio;RATSCHINSKI, Arno~ 33:EP ~31:23165970.7 ~32:31/03/2023

2025/09181 ~ Complete ~54:A BIOMETRIC HASH MATCHING METHOD AND SYSTEM, PARTICULARLY A FINGERPRINT HASH MATCHING METHOD AND SYSTEM ~71:CSIR, CSIR Campus, Meiring Naude Road, Brummeria, Pretoria 0184, SOUTH AFRICA, South Africa ~72: BARBOUR, Graham David;BOATENG, Thato George;KHANYILE, Portia;RAMPINE, Edwin~ 33:NL ~31:2034473 ~32:30/03/2023;33:NL ~31:2034475
~32:30/03/2023;33:NL ~31:2034476 ~32:30/03/2023

2025/09184 ~ Complete ~54:DUMP VALVE ARRANGEMENT ~71:WEIR MINERALS NETHERLANDS B.V., Egtenrayseweg 9, Netherlands ~72: VAN RIJSWICK, Rudolfus~ 33:GB ~31:2307527.8 ~32:19/05/2023

2025/09190 ~ Complete ~54:LAMELLAR WASH COMPOSITION NOT RELIANT ON PALM KERNEL OIL DERIVED STRUCTURANT ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DOUGLAS JOHN HIBAN;MASSIMILIANO TRENTINI;TEANOOSH MOADDEL;TIRUCHERAI VARAHAN VASUDEVAN~ 33:EP ~31:23171494.0 ~32:04/05/2023

2025/09160 ~ Complete ~54:ATHLETICS FINISH LINE DETECTION DEVICE ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: LI, Yunling;LIANG, Jing;LUO, Min;WANG, Yun;XIE, Yi;ZHANG, Shenyang~

2025/09162 ~ Complete ~54:A CUTTING-EDGE IMMERSIVE 3D MEDICAL SCAN VISUALIZATION SYSTEM VIA VR ENVIRONMENT ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAUDHARI, Prasad B.;DASHPUTE, Srushti Jagdish;JADHAV, Deepali S.;PARMAR, Reet Vikram;PATEL, Arshad Rubab;SHELKE, Priya~

2025/09163 ~ Complete ~54:AN AI POWERED MEDICAL IMAGE ANALYSIS BASED DIAGNOSTIC SYSTEM FOR PNEUMONIA DETECTION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: DESHMUKH, Siddhi;DESHPANDE, Anay;DUDAM, Preeti;FUTANE, Pravin;GADADE, Pratik;GADE, Harsh;JADHAV, Damodhar;KUMBHAR, Deven~

2025/09165 ~ Complete ~54:A WEB-BASED CARDIO-HEALTH SYSTEM FOR HEART DISEASE PREDICTION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: SAKHARE, Sachin R.;SULTANPURE, Kavita A.~

2025/09167 ~ Complete ~54:MEDICAL USE OF ANTI-CTLA4 AND ANTI-PD-1 BISPECIFIC ANTIBODY ~71:AKESO PHARMA CO., LTD., 158 Kangyao Road South, Huangpu, People's Republic of China ~72: LI, Baiyong;WANG, Zhongmin;XIA, Yu~ 33:CN ~31:202310378536.6 ~32:10/04/2023

2025/09170 ~ Complete ~54:ANTI-TRAILR2 ANTIGEN-BINDING PROTEINS AND USES THEREOF ~71:ODYSSEY THERAPEUTICS, INC., 51 Sleeper Street, Suite 800, United States of America ~72: ABRAHAM, Robert Thomas;DAKE, Tamara;FRANCHI, Luigi;HUBER, Ferdinand;KÖNIG, Paul-Albert;OPIPARI, Anthony W.;PINHEIRO, Elaine Maria;PREISS, Laura~ 33:US ~31:63/524,095 ~32:29/06/2023

2025/09182 ~ Complete ~54:COLD STORAGE DEVICE ~71:B MEDICAL SYSTEMS S.À R.L., 17, op der Hei, Luxembourg ~72: BRUNO, Simone;LENTZ, Mario~ 33:GB ~31:2306157.5 ~32:26/04/2024

2025/09193 ~ Provisional ~54:COMPOUNDS OF LACTOFERRIN ~71:DE NOVO FOODS, INC., 2093 Philadelphia Pike #9413, United States of America ~72: Carmen de Villiers;Dean Jason Sherry;Joni Symon;Leah Wilson Bessa;Megan Marinus~

2025/09147 ~ Provisional ~54:A SYSTEM AND METHOD FOR GPS-BASED TIMING, WAGERING, AND LEADERBOARD INTEGRATION WITHIN MOTORSPORT COMPETITIONS ~71:Midhaan Qutob, 9 Lynton place, Unit 87 Aquila, South Africa ~72: Midhaan Qutob~

2025/09176 ~ Complete ~54:METHOD OF STARTING UP A FISCHER-TROPSCH PLANT ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: CHAN, Chi Ying;COOK, Amelia Lorna Solveig~ 33:GB ~31:2308962.6 ~32:15/06/2023

2025/09155 ~ Complete ~54:CONNECTION STRUCTURE AND ASSEMBLY METHOD FOR PREFABRICATED BATHROOM WALL PANELS ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: FAN, Dongjiao;LIAO, Feifei;MA, Caiwei;XU, Li;ZENG, Wenlin;ZHANG, Yuqing~

2025/09169 ~ Complete ~54:REINFORCED ION EXCHANGE MEMBRANES ~71:MANN+HUMMEL LIFE SCIENCES & ENVIRONMENT HOLDING SINGAPORE PTE. LTD., 23 Rochester Park, #04-02, Singapore ~72:

Annette SCHENK;Johannes BENDER;Michael FASOLD;Michael LOEPFE~ 33:EP ~31:23173159.7
~32:12/05/2023

2025/09187 ~ Complete ~54:ASSEMBLY FOR PROCESSING FRUIT AND VEGETABLE PRODUCTS
~71:UNITEC S.P.A., Via Provinciale Cotignola, 20/9, 48022, Lugo, Italy ~72: LUCA BENEDETTI~
33:IT ~31:102023000010014 ~32:18/05/2023

2025/09175 ~ Complete ~54:DEVICE AND METHOD FOR PRODUCING AN ENDLESS WINDING CABLE
~71:Cabin Air Group B.V., Bokkewiel 6, JOURE 8502 TX, THE NETHERLANDS, Netherlands ~72: VAN DER
SCHUIT, Rinze Jan~ 33:NL ~31:2034957 ~32:31/05/2023

2025/09179 ~ Complete ~54:A METHOD AND SYSTEM FOR CONTACTLESS FINGERPRINT ACQUISITION
~71:CSIR, CSIR Campus, Meiring Naude Road, Brummeria, Pretoria 0184, SOUTH AFRICA, South Africa ~72:
BOATENG, Thato George;DE KOK, Anton Johannes;KHANYILE, Portia;RAMPINE, Edwin~ 33:NL ~31:2034473
~32:30/03/2023

2025/09189 ~ Complete ~54:CIGARETTE FILTER ROD AND PROCESS ~71:GREENBUTTS LLC, 415 Laurel
Street, Suite 430 San Diego , California 92101, United States of America ~72: LUIS ANTONIO SANCHES;TADAS
LUKAS LISAUSKAS~ 33:US ~31:63/456,145 ~32:31/03/2023;33:US ~31:18/614,090 ~32:22/03/2024

- APPLIED ON 2025/10/31 -

2025/09206 ~ Complete ~54:FLY ASH RESIDUE-BASED AERATED CONCRETE AND PREPARATION
METHOD THEREOF AND APPLICATION ~71:Henan University of Urban Construction, Longxiang Avenue,
Xincheng District, Pingdingshan City, Henan Province, People's Republic of China;Zhengzhou University of
Technology, Yingcai Street, Huiji District, Zhengzhou City, Henan Province, People's Republic of China ~72:
DING Donghang;JIANG Bingjie;LI Zhixin;LUO Qing;WANG Jina;XU Kaidong;XUE Kaiwang;ZHANG
Jianwu;ZHANG Xiaoting;ZHOU Wenjie~

2025/09198 ~ Provisional ~54:SECURE DIGITAL TICKETING PLATFORM WITH DEVICE-BASED BARCODE
VERIFICATION AND TIMESTAMP VALIDATION ~71:MUTZURIS, Anthony, Constantine, 45 CLUB STREET,
LINKSFIELD, JOHANNESBURG, 2192, SOUTH AFRICA, South Africa;MUTZURIS, Isabella, 45 CLUB STREET,
LINKSFIELD, JOHANNESBURG, 2192, SOUTH AFRICA, South Africa;MUTZURIS, Vasilli, Nicholas, 45 CLUB
STREET, LINKSFIELD, JOHANNESBURG, 2192, SOUTH AFRICA, South Africa ~72: MUTZURIS, Anthony,
Constantine;MUTZURIS, Isabella;MUTZURIS, Vasilli, Nicholas~

2025/09199 ~ Provisional ~54:METHOD AND SYSTEM FOR MANAGING A SHARED LOCAL SESSION
~71:RAINX PTE LTD, 83B Tanjong Pagar Road, Singapore ~72: BARNARD, Francois Dalton;FOX, Garth
Alan;LEIGH, Brandon Roy~

2025/09207 ~ Complete ~54:ANTI-MIGRATION AND ANTI-DISLODGEEMENT PERITONEAL DIALYSIS
CATHETER ~71:Quzhou People's Hospital (Quzhou Central Hospital), No. 100, Minjiang Road, Kecheng Dist.,
Quzhou, Zhejiang, People's Republic of China ~72: Chunxia Wang;Liyuan Xu;Yan Zheng~

2025/09214 ~ Complete ~54:AN AUTONOMOUS AGRICULTURAL SYSTEM LEVERAGING AI AND IOT FOR
TARGETED CROP OPTIMIZATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER
MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: ADE,
Anushka;BADADE, Durva;BODKE, Dhanashri;CHAVHAN, Gajanan Himantrao;CHAVHAN, Pranali G.;GAIKWAD,
Vidya S.;KARNIK, Madhuri P.;PATIL, Bhakti;RATHI, Snehal R.;SHEWALE, Chaitali R.;Wankhede, Disha
Sushant~

2025/09220 ~ Complete ~54:ANTI-CD19 ANTIBODY DRUG CONJUGATES ~71:AbbVie Biotherapeutics Inc., 1 N. Waukegan Road, AP34-2, V377, NORTH CHICAGO 60064, IL, USA, United States of America ~72: CHANG, Chewei A.;EMBERLEY, Ethan D.;HOBSON, Adrian D.;MARVIN, Christopher C.;PURCELL, James W.~ 33:US ~31:63/366,520 ~32:16/06/2022;33:US ~31:63/488,302 ~32:03/03/2023

2025/09223 ~ Complete ~54:FLAME-RETARDANT CROSSLINKED POLYETHYLENE INSULATED POWER CABLE AND PREPARATION METHOD THEREOF ~71:JIANGSU JINLING CABLE CO., LTD., No. 1 Jinhua Road, Industrial Zone, Guli Street, Jiangning District, Nanjing, Jiangsu, 210000, People's Republic of China ~72: BEIBEI JIA;GUODONG ZHU;PAN LI;SONGBO TANG;YANG YU;YANTAO LI;YAO ZHU;ZHENLONG WANG~ 33:CN ~31:202511319569.9 ~32:16/09/2025

2025/09225 ~ Complete ~54:USE OF A LIGNIN-BASED FILLER FOR PRODUCING A POLYMER COMPOSITION ~71:UPM-KYMMENE CORPORATION, Alvar Aallon katu 1, Finland ~72: DIEHL, Florian;GALL, Barbara~

2025/09226 ~ Complete ~54:A RUBBER COMPOSITION ~71:UPM-KYMMENE CORPORATION, Alvar Aallon katu 1, Finland ~72: DIEHL, Florian;GALL, Barbara;HÜBSCH, Christian;VALKONEN, Sanna;WEBER, Maximilian~

2025/09229 ~ Complete ~54:TROUGH AND TROUGH CONVEYOR, CONFIGURED AND ADAPTED TO TRANSPORT FISH TRANSVERSELY TO THEIR LONGITUDINAL EXTENT ~71:NORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KG, Geniner Str. 249, Germany ~72: GOLDMANN, Branden Jared~ 33:EP ~31:PCT/EP2023/063294 ~32:17/05/2023

2025/09235 ~ Complete ~54:TARGETED TREATMENT OF PROSTATE CANCERS AND OTHER TUMORS BY AN ANTIBODY-DRUG CONJUGATE ~71:Hangzhou DAC Biotech Co., Ltd., Building 12, ZhengTaiZhongZi Tech. Park, No. 260 Sixth Street, Heda, HANGZHOU 310018, ZHEJIANG, CHINA (P.R.C.), People's Republic of China;Hangzhou Seehe Biotechnology Co., Ltd, Building 19, Zhengtaizhongzi Tech. Park, No. 260 Sixth Street, Heda, HANGZHOU 310018, ZHEJIANG, CHINA (P.R.C.), People's Republic of China;ZHAO, Robert Yongxin, 7 Loring Road, LEXINGTON 02421, MA, USA, United States of America ~72: BAI, Lu;GUO, Huihui;HUANG, Yuanyuan;JIA, Junxiang;LI, Wenjun;WANG, Juan;YANG, Qingliang;YE, Hangbo;ZHANG, Lingli;ZHAO, Robert Yongxin~

2025/09215 ~ Complete ~54:A SYSTEM CONSISTING OF SOLAR TECHNOLOGY WITH HYDROPONICS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHENDE, Swanandi Sunil;CHAUDHARI, Durgesh Nitin;DHARMANI, Daksh Vijay;GOEL, Mahak Sunil;JOSHI, Hrushikesh Jaiwant;KANJALKAR, Pramod;MAHALLE, Parikshit N.;VAIDYA, Nachiket Abhay~

2025/09216 ~ Complete ~54:INTEGRATED ROBOTIC SURGERY SUITE FOR REMOTE EXPERT SUPERVISION AND REAL-TIME DATA ANALYTICS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHIMANPALLEWAR, Ratnmala;DESAI, Sharda;Diwakar, Mandar;GHULE, Vijaykumar;MAHAJAN, Rupali Atul;MAHALLE, Parikshit N.;MANE, Vijay;NAWADKAR, Ashwini;RAUT, Ketan~

2025/09202 ~ Provisional ~54:SMART ROBOT VACUUM CLEANER WITH INTELLIGENT NAVIGATION AND ELECTRO-PERMANENT MAGNET METAL COLLECTION SYSTEM. ~71:Ahmed Waseef Saib, 24 Park Avenue, Desainagar, South Africa ~72: Ahmed Waseef Saib~

2025/09204 ~ Complete ~54:A SERVICE SCHEDULING METHOD, APPARATUS, ELECTRONIC DEVICE AND MEDIUM FOR A DETERMINISTIC NETWORK ~71:Shandong Polytechnic, No. 23000, East Jingshi Road, Jinan City, Shandong Province, 250104, People's Republic of China ~72: Wang Yadong~

2025/09222 ~ Complete ~54:PROTECTION DEVICE FOR PROTECTING A WOODEN POLE ~71:ALBIN ALEXANDER WLADYSLAW BAECKER, 23 Drum Cottages, Gilmerton, Edinburgh, Scotland, EH17 8RL, United Kingdom ~72: ALBIN ALEXANDER WLADYSLAW BAECKER~

2025/09227 ~ Complete ~54:A POLYMER COMPOSITION ~71:UPM-KYMMENE CORPORATION, Alvar Aallon katu 1, Finland ~72: DIEHL, Florian;GALL, Barbara~

2025/09241 ~ Complete ~54:METHOD FOR RELOCATING A MODULAR TROLLEY SYSTEM AND MODULAR TROLLEY SYSTEM ~71:ABB Schweiz AG, Bruggstrasse 66, BADEN 5400, SWITZERLAND, Switzerland ~72: ASHNAGARAN, Mehrzad;DITTAKAVI, Ratna-Kanth;KAINULAINEN, Konsta~

2025/09244 ~ Complete ~54:AN ANTIBODY-DRUG CONJUGATE HAVING TWO OR MORE FUNCTIONAL SMALL MOLECULE COMPOUNDS FOR ENHANCED TREATMENT OF REFRACTORY DISEASES ~71:Hangzhou DAC Biotech Co., Ltd, Building 12, ZhengTaiZhongZi Tech. Park, No. 260 Sixth Street, HEDA, HANGZHOU 310018, ZHEJIANG, CHINA (P.R.C.), People's Republic of China;Hangzhou Seehe Biotechnology Co., Ltd, Building 19, ZhengTaiZhongZi Tech. Park, No. 260 Sixth Street, Heda, HANGZHOU 310018, ZHEJIANG, CHINA (P.R.C.), People's Republic of China;ZHAO, Robert Yongxin, 7 Loring Road, LEXINGTON 02421, MA, USA, United States of America ~72: BAI, Lu;GUO, Huihui;HUANG, Yuanyuan;JIA, Junxiang;LI, Wenjun;WANG, Juan;YANG, Qingliang;YE, Hangbo;ZHANG, Lingli;ZHAO, Robert Yongxin~
33:IB ~31:2023/096066 ~32:24/05/2023

2025/09200 ~ Provisional ~54:MACHINE AND METHOD FOR HARVESTING SOLID WASTE ~71:SAIWETD (PTY) LTD, 12 Theatre Close, Westgate, Mitchells Plain, South Africa ~72: FINNIES, Jeffrey~

2025/09201 ~ Provisional ~54:A TEST MANAGEMENT PLATFORM ~71:COMMAND QUALITY LIMITED, 6th Floor, South Bank House, Ireland ~72: FIGUEIREDO, Samantha Helina;ILUNGA, Ghislain Claude;KHOZA, Zwivhuya Lucky;KOEKEMOER, Petrus Cornelius;LEBEYA, Maifala Bethuel;MADINGA, Phiwinhlanhla Given;MALEKA, Tumi Peggy;MANKABIDI, Ngwako Glen;MAPHORI, Remember;MOREKI, Tlotlegi;PADIACHY, Aaron Kyle;RAMATHEBANE, Setenane Philemon;RENS, Tebogo Edwin;ROODT, Gordon;ROOS, Donovan Graeme;RUPNARAIN, Krystelle;SIMON, Nicole Joy;TSEKA, Sello;TSEKA, Tebogo Mabel~

2025/09218 ~ Complete ~54:AN IOT BASED HEALTH GUARDIAN SYSTEM FOR REAL-TIME MONITORING OF IMPORTANT HEALTH PARAMETERS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: DODE, Soham Deepak;DOHATARE, Shrawani Babarao;DUBAL, Atharv Anandrao;MARATHE, Vijay Mahadev;RAUT, Ketan J.~

2025/09224 ~ Complete ~54:EXTENDED RANGE MODE TRANSMISSION METHOD AND APPARATUS ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG PROVINCE, CHINA (P.R.C.), People's Republic of China ~72: LIU, Le;PANG, Jiyong;ZHANG, Jiayin;ZHU, Jun~ 33:CN ~31:201610011376.1 ~32:07/01/2016

2025/09234 ~ Complete ~54:FLUORINATED CYCLIC DERIVATIVES OF SULFONAMIDES AND SULFONES, AND COMPOSITIONS AND METHODS THEREOF ~71:Lysoway Therapeutics, Inc., 125 Cambridge Park Dr., Suite 301, CAMBRIDGE 02140, MA, USA, United States of America ~72: QIU, Yongchang;YU, Xiang Yang~
33:US ~31:63/460,744 ~32:20/04/2023;33:US ~31:63/546,566 ~32:31/10/2023

2025/09236 ~ Complete ~54:SEED OR ROOT TREATMENT COMPOSITION COMPRISING MOLYBDATE AND MICROBES AND USE THEREOF IN PLANTS ~71:Croda International Plc, Cowick Hall, Snaith, GOOLE DN14 9AA, YORKSHIRE, UNITED KINGDOM, United Kingdom ~72: ADAMS, Steven Robert;FOWLES, Andrew Mark~ 33:GB ~31:2306474.4 ~32:02/05/2023

2025/09239 ~ Complete ~54:COMPOSITION, METHODS AND USES ~71:4E Therapeutics, Inc., 3800 N. Lamar Blvd., Suite 200, AUSTIN 78756, TX, USA, United States of America ~72: ERNFORS, Johan Patrik;KUPARI, Jussi Antero;SU, Jie;ZHANG, Mingdong~ 33:GB ~31:2306456.1 ~32:02/05/2023;33:GB ~31:2401979.6 ~32:13/02/2024

2025/09240 ~ Complete ~54:SPRIRAL JET MILL WITH MULTIPLE PRODUCT INJECTOR NOZZLES AND METHOD OF MILLING A GRANULAR PRODUCT ~71:Kronos International, Inc., Peschstrasse 5, LEVERKUSEN 51373, GERMANY, Germany ~72: FRIEDRICH, Jörg;SANDROCK, Martin~ 33:EP ~31:23166851.8 ~32:05/04/2023

2025/09246 ~ Complete ~54:A PUNCHING BAG ~71:BHT – LDA, Rua de São Brás No. 42, R/C esquerdo, 2890-320 São Francisco, Portugal ~72: RATÃO BATISTA BARATA, Pedro Jorge;ÂNGELO JORGE FROTA, Mauro~ 33:PT ~31:118592 ~32:06/04/2023;33:PT ~31:119194 ~32:04/01/2024

2025/09247 ~ Complete ~54:A SYSTEM FOR GAMIFYING A PUNCHING BAG TRAINING SESSION ~71:BHT – LDA, Rua de São Brás No. 42, R/C esquerdo, 2890-320 São Francisco, Portugal ~72: RATÃO BATISTA BARATA, Pedro Jorge;ÂNGELO JORGE FROTA, Mauro~ 33:PT ~31:118594 ~32:06/04/2023;33:PT ~31:119196 ~32:04/01/2024

2025/09250 ~ Complete ~54:MULTI-LAYERED DEVICE WITH SELF-ADHERING FILM ~71:CAN IMAGE MEDIA TECH LLP, 302, 3rd Floor, Solitaire Building, 80, S V Road, India ~72: DESAI, Ketan;MISHRA, Karunesh~ 33:IN ~31:202321037650 ~32:31/05/2023

2025/09251 ~ Complete ~54:MULTI-LAYERED DEVICE WITH WATER ACTIVABLE SELF-ADHERING FILM ~71:CAN IMAGE MEDIA TECH LLP, 302, 3rd Floor, Solitaire Building, 80, S V Road, India ~72: DESAI, Ketan;MISHRA, Karunesh~ 33:IN ~31:202321037651 ~32:31/05/2023

2025/09208 ~ Complete ~54:STRAIN SENSING SUTURE FOR WOUNDS AND PREPARATION METHOD THEREOF ~71:Nanjing Medical University, No. 101, Longmian Avenue, Jiangning District, Nanjing City, Jiangsu Province, People's Republic of China ~72: Chenggang Mao;Jing Shu;Lili Zhao;Pei Tan;Wei Zhang~

2025/09209 ~ Complete ~54:CABLE SUPPORT ~71:PRIME POWER SYSTEMS (PTY) LTD, 6 NOVEMBER STREET, MIDDELBURG, South Africa ~72: JOHANNES HENDRIK BRONKHORST~ 33:ZA ~31:2025/08664 ~32:15/10/2025

2025/09219 ~ Complete ~54:AN ARTIFICIAL INTELLIGENCE BASED DIGITAL AGRICULTURAL TRADING SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BAVISKAR, Nilakshi Panjabrao;BAVISKAR, Niranjan Panjabrao;BAVISKAR, Nishu Panjabrao;MAHAJAN, Rupali;SHELKE, Priya~

2025/09231 ~ Complete ~54:TRICYCLIC COMPOUND AS ATR KINASE INHIBITOR ~71:SHANGHAI FOSUN PHARMACEUTICAL (GROUP) CO., LTD., Building A, No. 1289 Yishan Road, People's Republic of China;SHANGHAI FOSUN PHARMACEUTICAL INDUSTRIAL DEVELOPMENT CO., LTD., Room 350, No.25 Kangshi Road, Kangqiao Town, People's Republic of China ~72: DING, Xiao;HU, Bin;LIU, Peng;YAN, Shangjun;YU, Huaxing;ZHANG, Zhisen;ZHENG, Jiamin~ 33:CN ~31:202310348275.3 ~32:03/04/2023

2025/09238 ~ Complete ~54:IONIZABLE CATIONIC LIPIDS FOR RNA DELIVERY ~71:Arcturus Therapeutics, Inc., 10628 Science Center Drive, Suite 250, SAN DIEGO 92121, CA, USA, United States of America ~72: RAJAPPAN, Kumar;TANIS, Steven~ 33:US ~31:63/501,367 ~32:10/05/2023

2025/09248 ~ Complete ~54:ELECTRONIC PUNCHING BAG SYSTEM PROVIDED WITH AN ANCHORING UNIT ~71:BHT – LDA, Rua de São Brás No. 42, R/C esquerdo, 2890-320 São Francisco, Portugal ~72: RATÃO BATISTA BARATA, Pedro Jorge;ÂNGELO JORGE FROTA, Mauro~ 33:PT ~31:118593 ~32:06/04/2023;33:PT ~31:119195 ~32:04/01/2024

2025/09210 ~ Complete ~54:IN-SITU EFFECTIVE PROPERTY INVERSION METHOD AND SYSTEM FOR COMPOSITE MATERIAL ~71:Dongguan University of Technology, No.1, University Road, Songshan Lake Science and Technology Industrial Park, Dongguan City, Guangdong Province, 523808, People's Republic of China ~72: Biao Wang;Guodong Fang;Hongyue Wang;Lianhua Ma;Qihui Lv;Songhe Meng~ 33:CN ~31:2025115349348 ~32:24/10/2025

2025/09228 ~ Complete ~54:HETEROARYL-AMINE COMPOUNDS AND USE THEREOF AS HDAC6 INHIBITORS ~71:AUGUSTINE THERAPEUTICS, Gaston Geenslaan 1 3001 Leuven, Belgium ~72: CELANIRE, Sylvain;ROMBOUTS, Frederik Jan Rita;SENNHENN, Peter Christian~ 33:EP ~31:23180701.7 ~32:21/06/2023

2025/09230 ~ Complete ~54:PAPER BASED MICROCHIP ELECTROPHORESIS FOR MOLECULAR DIAGNOSTIC TESTS ~71:UNIVERSITY OF HOUSTON SYSTEM, 4800 Calhoun Road, United States of America ~72: AN, Ran;WILLSON, Richard;YANG, Yi~ 33:US ~31:63/456,734 ~32:03/04/2023

2025/09213 ~ Complete ~54:IOT SENSORS BASED DUST ACCUMULATION PREDICTION SYSTEM FOR IMPROVING EFFICIENCY OF SOLAR PANELS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: AHER, Gargee;BHIMANPALLEWAR, Ratnimala Nivrutti;CHAVHAN, Pranali;DHARMADHIKARI, Aishwarya;KALE, Ridhima;MAHAJAN, Rupali Atul;RATHI, Snehal Rahul;TIWASKAR, Shweta;TURALE, Advait;ZINGADE, Rachit~

2025/09233 ~ Complete ~54:APPARATUSES AND PROCESSES FOR PRODUCING OPTICAL EFFECTS LAYERS ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: CALLEGARI, Andrea;NIKSERESHT GHANEPOUR, Neda~ 33:EP ~31:23166324.6 ~32:03/04/2023

2025/09203 ~ Complete ~54:HOUSEHOLD FLAT-PLATE MULTI-CHANNEL ENERGY-SAVING RADIATOR AND MULTI-ENERGY ADJUSTABLE TEMPERATURE HEATING SYSTEM ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: FU Haoka;JIN Junjie;LI Zhuangzhuang;LIU Feifan;LU Lu;WANG Shichao;XU Hongbin;YU Tingting;ZHAO Hengshi~

2025/09211 ~ Complete ~54:INTELLIGENT ORAL DIAGNOSIS AND TREATMENT DATA SECURITY MANAGEMENT AND SHARING SYSTEM AND METHOD THEREOF ~71:Affiliated Stomatological Hospital of Zunyi Medical University, No. 89, Wujiang East Road, Xinpuxin District, Zunyi City, Guizhou Province, People's Republic of China ~72: Chun Zhou;Dan Liu;Qian Yuan~

2025/09212 ~ Complete ~54:A BIONIC BLADE-SHAPED OCCLUSAL SURFACE ARTIFICIAL TOOTH FOR RESTORATION ~71:Bo Hua, No. 9, Youdian South Alley, Jiefang South Road, Daokou Town, Huaxian County, Anyang City, Henan Province, 456462, People's Republic of China ~72: Bo Hua;Leiming Hua;Shengli Li;Wenhui Hua;Yuanyuan Cao~

2025/09221 ~ Complete ~54:CAN BODY DECORATOR HAVING A MANDREL PRE-SPIN ASSEMBLY AND INFEED IMPROVEMENTS ~71:Crown Packaging Technology, Inc., 11535 South Central Avenue, ALSIP 60803,

IL, USA, United States of America ~72: BAILEY, Damien;BLAKE, Daren;COATES, Michael Jonathan;EGERTON, Daniel;HALSTEAD, Michael~ 33:US ~31:62/753,818 ~32:31/10/2018

2025/09232 ~ Complete ~54:(HETERO)ARYL-CARBONYL-HETEROBICYCLIC COMPOUNDS AS INHIBITORS OF PMS2 FOR CANCER AND DEGENERATIVE ILLNESSES ~71:NeoPhore Limited, 3rd Floor, 1 Ashley Road, ALTRINCHAM WA14 2DT, ALTRINCHAM CHESHIRE, UNITED KINGDOM, United Kingdom ~72: BESTWICK, Jacob Scottie;BLAGG, Julian;DRYSDALE, Martin;MIDDLETON, Anthony James;MULLA, Mushtaq;RAE, Alastair;RANKIN, Stuart Shane;TINSON, Ryan Alan James;WINSHIP, Paul Colin Michael~ 33:GB ~31:2307924.7 ~32:26/05/2023

2025/09242 ~ Complete ~54:MID-REGIONAL PRO-ADRENOMEDULLIN IMMUNOASSAY WITH MONOCLONAL ANTIBODIES ~71:B.R.A.H.M.S GmbH, Neuendorfstr. 25, HENNIGSDORF 16761, GERMANY, Germany;Cezanne S.A.S., 280 Allée Graham Bell, Parc Scientifique Georges Besse, NIMES 30035, CÉDEX 1, FRANCE, France ~72: BOURGOIN, Nicolas;INCAMPS, Anne;KROP, Manne;LEHMANN, Karin;ROUX, Lucie;WUNDERLICH, Carola~ 33:EP ~31:23305751.2 ~32:12/05/2023;33:EP ~31:23205939.4 ~32:25/10/2023

2025/09249 ~ Complete ~54:AMINO LIPID, AND LIPID NANOPARTICLES AND USE THEREOF ~71:SHENZHEN MAGICRNA BIOTECHNOLOGY CO., LTD., Room 301, C5 Unit, No. 459 Qiaokai Road, Fenghuang Street, Guangming District, Shenzhen City, People's Republic of China ~72: FANG Wanyin;QIN Haoyong;WU Qixin;XU Yan~ 33:CN ~31:202310338416.3 ~32:31/03/2023

2025/09237 ~ Complete ~54:PEPTIDE TYROSINE-TYROSINE ANALOG AND USE THEREOF ~71:The United Bio-Technology (Hengqin) Co., Ltd., Room 501, Building 5, No.100 Feipeng Road, Guangdong-Macao Cooperation Traditional Chinese Medicine Science And Technology Industrial Park, Hengqin New District, ZHUHAI 519031, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CAO, Chunlai;DENG, Huixing;HE, Xiuyi;HUANG, Liang;LIU, Xiaoxiao;XIE, Xin;ZHOU, Cui~ 33:CN ~31:202310372497.9 ~32:10/04/2023

2025/09372 ~ Provisional ~54:PULSED MICRO-JET PROPULSION WITH PIEZOELECTRIC VALVING, ULTRASONIC DRIVERS, DYNAMIC GAS SWITCHING, AND OPTIONAL ELECTROMAGNETIC FLOW CONDITIONING ~71:Johannes Albertus Engelbrecht, 0525 Fynbos Lifestyle Estate, 282 Tryall Road, Sandown,, South Africa;Johannes Hugo Engelbrecht, 9 Bretagnehof, Zomerlust Estate, Hoog-En-Droog,, South Africa ~72: Johannes Albertus Engelbrecht~ 33:ZA ~31:01 ~32:29/09/2025

2025/09205 ~ Complete ~54:HIGH-CALCIUM AND SELENIUM-RICH NUTRITIOUS GOAT MILK POWDER AND ITS PREPARATION METHOD ~71:Beiliyou (Beijing) Dairy Co., Ltd., Unit 01, 17th Floor, 101 Emperor Group Center, Floors 5th to 25th, Building D12, Jianwai Street,, Beijing, 100001, People's Republic of China ~72: WANG, Ruijun~ 33:CN ~31:202511331907.0 ~32:17/09/2025

2025/09217 ~ Complete ~54:SYSTEM FOR REMOTE WEB-BASED TESTING OF FLOW METER ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: JOSHI, Hrushikesh;KANJALKAR, Jyoti;KANJALKAR, Pramod M.;MAHALLE, Parikshit N.;PATIL, Dinesh Nathuram~

2025/09243 ~ Complete ~54:COMBINATION VACCINE ~71:Seqirus Inc., 475 Green Oaks Parkway, HOLLY SPRINGS 27540, NC, USA, United States of America ~72: CHANG, Cheng;CHEUNG, Michael~ 33:US ~31:63/501,222 ~32:10/05/2023

2025/09245 ~ Complete ~54:AN ELECTRONIC PUNCHING BAG APPARATUS ~71:BHT - LDA, Rua de São Brás No. 42, R/C esquerdo, 2890-320 São Francisco, Portugal ~72: RATÃO BATISTA BARATA, Pedro

Jorge;ÂNGELO JORGE FROTA, Mauro~ 33:PT ~31:118591 ~32:06/04/2023;33:PT ~31:119193
~32:04/01/2024

2025/09252 ~ Complete ~54:CALCITONIN ANALOGUE, AND DERIVATIVE THEREOF AND USE THEREOF
~71:HANGZHOU SCIWIND BIOSCIENCES CO., LTD., Room 901, 9F, Building 2, No. 400 Fucheng Road,
Qiantang District Hangzhou, Zhejiang 310015, People's Republic of China;SCIWIND BIOSCIENCES (BEIJING)
CO., LTD., Rm. 201, Building 4, No.8 Liangshuihe 2nd Street, BDA Daxing District, Beijing 100176, People's
Republic of China ~72: HAI PAN;SUJUAN HAO;YAN LI;ZHAOYING LI~ 33:CN ~31:202310352819.3
~32:04/04/2023

- APPLIED ON 2025/11/03 -

2025/09273 ~ Complete ~54:PYLON CONFIGURATION ~71:ARROW POINT ENGINEERING (PTY) LTD, 26
Victoria Street, Oaklands, South Africa ~72: ELVIN, Alex;VENZO, Ruggero Eliso Claudio~
33:ZA ~31:2024/01104 ~32:05/08/2024

2025/09279 ~ Complete ~54:METHOD AND SYSTEM FOR VERIFYING A BOREHOLE MEASUREMENT
DEVICE ~71:IMDEX TECHNOLOGIES PTY LTD, 216 Balcatta Road Balcatta, Australia ~72: BLAINE, Fredrick
Allan;JACKSON, John Carl;KOPLAN, Christopher Thomas;WILSON, Cory Bryce~ 33:AU ~31:2023901386
~32:08/05/2023

2025/09288 ~ Complete ~54:PLANT AND METHOD FOR CAPTURING CARBON DIOXIDE ~71:DHARMA
KARMA FOUNDATION, 48 Heather Dr, Atherton, California, 94027, United States of America ~72: ADITYA ANIL
BHANDARI;ANDREAS WALLMÜLLER;BENJAMIN FLEISS;FLORIAN CHIMANI;HERMANN
HOFBAUER;JOHANNES FUCHS;JOSEF FUCHS;MICHAEL FAHRNGRUBER;STEFAN MÜLLER~
33:EP ~31:23166599.3 ~32:04/04/2023

2025/09256 ~ Provisional ~54:SYSTEMS AND METHODS FOR A WAGE SUBSIDY LIQUIDITY POOL (WSLP)
FOR OUTCOME-LINKED LIVING-WAGE FINANCING ~71:Kabelo Diale, 7 Comet Street, South Africa ~72:
Kabelo Diale~

2025/09271 ~ Complete ~54:ROCK BOLT WITH UNIDIRECTIONAL ANCHORING MECHANISM
~71:JOZISCAPE (PTY) LTD, CNR OF MAIN 6TH STREET, GA-RANKUWA INDUSTRIAL PARK, GA-
RANKUWA, GAUTENG, 0208, South Africa ~72: BOTHA, Raymond, Mark;MARSHALL, Elton~
33:ZA ~31:2024/08421 ~32:07/11/2024;33:ZA ~31:2025/04303 ~32:21/05/2025

2025/09277 ~ Complete ~54:USES OF T CELL ENGAGING PROTEINS IN THE TREATMENT OF CANCER
~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: HIPPE,
Susanne;STUDENY, Matus;TAUBE, Tillmann;ZHANG, Jin~ 33:EP ~31:23174355.0 ~32:19/05/2023

2025/09284 ~ Complete ~54:METHOD AND APPARATUS FOR CREATING ENCODED DATA AND USE OF
SAME FOR IDENTITY VERIFICATION ~71:FaceTec, Inc., 10001 Park Run Drive, LAS VEGAS 89145, NV, USA,
United States of America ~72: TUSSY, Kevin Alan~ 33:US ~31:63/457,085 ~32:04/04/2023

2025/09286 ~ Complete ~54:COMPOUNDS AND METHODS FOR REDUCING PLN EXPRESSION ~71:Ionis
Pharmaceuticals, Inc., 2855 Gazelle Court, CARLSBAD 92010, CA, USA, United States of America ~72:
ANDERSON, Brooke A.;KUBLI, Dieter A.;MULLICK, Adam;SWAYZE, Eric E.~ 33:US ~31:63/494,415
~32:05/04/2023;33:US ~31:63/508,453 ~32:15/06/2023;33:US ~31:63/561,700 ~32:05/03/2024

2025/09292 ~ Provisional ~54:MICROENCAPSULATED NUTRIENT ADDITIVE FOR HOT AND COLD
BEVERAGE INTEGRATION ~71:Morne Botes, 18 STARFISH WAY, South Africa ~72: Morne Botes~

2025/09690 ~ Provisional ~54:PCPW (POWER CABLE PROTECTIVE WRAPPING) ~71:Dirk Steenkamp, 72 Service Road, Rietfontein, South Africa ~72: Dirk Steenkamp~

2025/09259 ~ Provisional ~54:SYSTEM AND METHOD FOR PARAMETERIZED LIVING-WAGE ADJUSTMENT WITH EXPLAINABLE FACTORIZATION ("FAIR PAY RANGE ADJUSTOR + CUSTOM ADJUSTOR") ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: KABELO DIALE~

2025/09262 ~ Provisional ~54:AN AUDIO PLAYBACK DEVICE ~71:KALIAN FZ LLE, FUJAI RAH CREATIVE TOWER, P.O. BOX 4422, FUJAI RAH, UNITED ARAB EMIRATES, United Arab Emirates ~72: MIKAELIAN, Josephine, Hratch;MIKAELIAN, Khatchig, Hratch~

2025/09270 ~ Complete ~54:CULTURE MEDIUM FOR LOWERING LIPID OF ANIMAL EMBRYO BEFORE CRYOPRESERVATION, AND PREPARATION METHOD AND USE THEREOF ~71:Chongqing Academy of Animal Sciences, No. 51, Changlong Avenue, Changzhou Subdistrict, Rongchang District, Chongqing, 402460, People's Republic of China;Shanghai Academy of Agricultural Sciences, No. 2901, Beidi Road, Xinhong Subdistrict, Minhang District, Shanghai, 201106, People's Republic of China ~72: DAI Jianjun;GAO Jun;HE Mengqian;LI Heran;PAN Hongmei;SUN Lingwei;WU Caifeng;XU Jiehuan;ZHANG Defu;ZHANG Shushan~ 33:CN ~31:202411568627.7 ~32:05/11/2024

2025/09274 ~ Complete ~54:FLOAT SWITCH-CONTROLLED VALVE ~71:KHAN, Sameer, 118 Middlemiss Crescent, South Africa ~72: KHAN, Sameer~ 33:ZA ~31:2024/05939 ~32:01/08/2024

2025/09291 ~ Provisional ~54:PATENT TITLE: AFRI-SYNCORE TRINITY™ – INTEGRATED RESOURCE RECOVERY PLANT ~71:TSP INVENTIONS, 8817 Ext 10 Empumelelweni, South Africa ~72: Thapelo Mbokane~

2025/09253 ~ Provisional ~54:SYSTEM AND METHOD FOR LIVING-WAGE FINANCING ENGINE (LWFE) ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: Kabelo Diale~

2025/09255 ~ Provisional ~54:CLINICAL INTEGRATION POD INFINITY™ — SELF-CONTAINED MODULAR CLINICAL CAPSULE FOR DIAGNOSTIC, SURGICAL, THERAPEUTIC AND NEURO-ACOUSTIC CULTURAL WELLNESS INTEGRATION ~71:TSP INVESTIONS, 8817 Ext 10 Empumelelweni, South Africa ~72: Thapelo Mbokane~

2025/09267 ~ Provisional ~54:BREWSKI: A SYSTEM AND METHOD FOR REAL-TIME SOCIAL VENUE DISCOVERY, CROWD ANALYTICS, SAFETY RATING, VENUE COOPERATION, AND USER REWARD MANAGEMENT ~71:Lourens Francois Nel, 13 Bonita Bay / Barracuda Bar, South Africa ~72: Lourens Francois Nel~

2025/09268 ~ Complete ~54:DEVICE AND METHOD FOR REMOVING ODOR-CAUSING MICROPOLLUTANTS BASED ON NANOBUBBLE TECHNOLOGY ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No. 777, Jialingjiang East Road, Huangdao District, Qingdao City, Shandong Province, 266520, People's Republic of China ~72: Dong CHEN;Fangshu WANG;Jingjing XIA;Qingyang BI;Shixin YU;Shuo LI;Shuoyang WANG;Wen YANG;Xiaowan DONG~ 33:CN ~31:202411860067.2 ~32:17/12/2024

2025/09275 ~ Complete ~54:TARGETED GENE THERAPY FOR DM-1 MYOTONIC DYSTROPHY ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, Massachusetts, United States of America ~72: CHENG, Seng, H.;JACOBO, Sarah Melissa;MORIGUCHI, Takako;O'RIORDAN, Catherine;RUAN, Guoxiang~ 33:US ~31:63/494,453 ~32:05/04/2023;33:US ~31:63/589,417 ~32:11/10/2023

2025/09282 ~ Complete ~54:COMPOSITION FOR THE PROTECTION OF A SHAPED ARTICLE AGAINST CORROSION ~71:Seal For Life Global Dutch Holding B.V., Gasselterstraat 20, STADSKANAAL 9503 JB, THE NETHERLANDS, Netherlands ~72: BROESDER, Hindrik Harm;CUDIC, Dinko;SALEHPOUR, Somaieh;SCHUTTE, Jan Otto~ 33:EP ~31:23166647.0 ~32:04/04/2023

2025/09289 ~ Complete ~54:SYSTEMS AND METHODS FOR PREDICTING AND DYNAMICALLY DISPLAYING PEST PRESSURE ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: ANDREW SCHNEIDER;FRANK TSENG;JOSEPH DAVIS;SHABENOOR KAMAL~ 33:US ~31:63/464,000 ~32:04/05/2023

2025/09257 ~ Provisional ~54:CRASH SENTINEL NET 360™ – VEHICULAR AI-BASED CRASH DETECTION AND COMMUNICATION NETWORK SYSTEM ~71:TSP INVENTIONS, 8817 ext 10 Empumelelweni, South Africa ~72: TSP INVENTIONS;Thapelo Mbokane~

2025/09263 ~ Provisional ~54:A SYSTEM AND METHOD FOR INSERTING A PRIMER INTO A BLAST HOLE ~71:AECI MINING LIMITED, AECI Place, 23/24 The Woodlands, Woodlands Drive, Woodmead, SANDTON 2191, SOUTH AFRICA, South Africa ~72: DAVRAJH, Shaniel;TAWADROUS, Ayman~

2025/09269 ~ Complete ~54:MONGOLIAN MEDICINE INFLATABLE BLOODLETTING BAND ~71:Inner Mongolia Medical University, Chilechuan Dairy Development Zone, Hohhot, Inner Mongolia, 010011, People's Republic of China ~72: CHAO Murilige;E Nirile;SA Chula;SU Bude;WU Jisiguleng;XIAO Jirimutu~

2025/09265 ~ Provisional ~54:NON-CONTACT CARDIOVASCULAR AND RESPIRATORY ABNORMALITIES MONITORING DEVICE FOR MOTOR VEHICLE DRIVERS, HOSPITALIZED PATIENTS AND THE GENERAL PUBLIC GLOBALLY ~71:Bernard Eugene Seekoei, 4766 Chief Moroka Street, Rocklands Location, South Africa;Heilene Belinda Thomas-Seekoei, 4766 Chief Moroka Street, Rocklands Location, South Africa ~72: Bernard Eugene Seekoei~

2025/09278 ~ Complete ~54:METHOD AND SYSTEM FOR DETERMINING DEPTH OF A DEPLOYED OBJECT ~71:IMDEX TECHNOLOGIES PTY LTD, 216 Balcatta Road Balcatta, Australia ~72: FLÅM, John;HAVSGÅRD, Geir Bjarte~ 33:NO ~31:20230392 ~32:11/04/2023

2025/09281 ~ Complete ~54:METHOD FOR PROCESSING MULTI-SCENARIO HETEROGENEOUS DATA ~71:CETC BIGDATA RESEARCH INSTITUTE CO., LTD, 30/F, Building C, Gaoke No. 1, No. 160 Changling South Road, Guanshanhu District, Guiyang, Guizhou, 55081, People's Republic of China;TAIJI COMPUTER CORPORATION LIMITED, No. 211 North Fourth Ring Middle Road, Haidian District, Beijing, 100191, People's Republic of China ~72: CAO, Yang;CHENG, Jianrun;HUANG, Tiechun;LI, Xiang;QI, Gang;WANG, Rong;XIE, Hongtao;ZHI, Ting;ZHONG, Kai;ZHOU, Wei~ 33:CN ~31:202310416643.3 ~32:19/04/2023

2025/09285 ~ Complete ~54:METHOD FOR PRODUCING TRANS-1,2-DIFLUOROETHYLENE (HFO-1132E) ~71:Honeywell International Inc., Intellectual Property Services Group, 855 S. Mint Street, CHARLOTTE 28202, NC, USA, United States of America ~72: KRUGLOV, Alexey;PAPANASTASIOU, Dimitrios;RAMANATHAN, Sudharsanam;ROGER, Christophe;SHAKIB, Akbar Mahdavi;WANG, Haiyou;YU, Hsien-cheng;ZHAI, Yian~ 33:US ~31:63/465,142 ~32:09/05/2023;33:US ~31:63/534,001 ~32:22/08/2023;33:US ~31:18/658,300 ~32:08/05/2024

2025/09287 ~ Complete ~54:ACTIVE SEISMIC SOURCE GENERATION FOR DISTRIBUTED ACOUSTIC SENSING, GEO-TAGGING, AND SUBSURFACE IMAGING ~71:X Development LLC, 1600 Amphitheatre Parkway, MOUNTAIN VIEW 94043, CA, USA, United States of America ~72: AJO-FRANKLIN, Jonathan Blair;CLAPP, Robert;GONCHARUK, Artem;MILLER, Alex S.;SARGENT, Joseph Hollis;SMITH, Kevin

Forsythe;WASHBURN, Shane;WILFONG, Jonathan Gray;ZHAO, Allen Richard~ 33:US ~31:63/499,760
~32:03/05/2023

2025/09254 ~ Provisional ~54:WAGE-LINKED CREDIT INSTRUMENT (WLCI): SYSTEM AND METHOD FOR DYNAMIC CREDIT PRICING, LIMITS, AMORTIZATION AND REPAYMENT SCHEDULING INDEXED TO A LIVING-WAGE GAP AND EMPLOYER ADOPTION SIGNALS ~71:Kabelo Diale, 7 Comet Street, South Africa
~72: Kabelo Diale~

2025/09261 ~ Provisional ~54:SYSTEM AND METHOD FOR DETERMINING AUDIENCE INCOME POTENTIAL
~71:EXO OUTDOOR (PTY) LTD, SUITE 102, BLOCK N2, FIRST FLOOR, BOARDWALK LAKESIDE, 107 BOARDWALK BOULEVARD, FAERIE GLEN, South Africa ~72: WARREN FERNANDES~

2025/09276 ~ Complete ~54:BRAIN COMPUTER SIGNAL SECURITY SYSTEM AND USE METHOD THEREOF
~71:CAO, Qingheng, 2908, Block C, No. 82 East Fourth Ring Middle Road, Chaoyang District, Beijing, 100022, People's Republic of China ~72: CAO, Qingheng~ 33:CN ~31:202310358178.2 ~32:04/04/2023

2025/09280 ~ Complete ~54:FEDERATED LEARNING SYSTEM, FEDERATED LEARNING METHOD, AND FEDERATED LEARNING DEVICE ~71:CETC BIGDATA RESEARCH INSTITUTE CO., LTD., 30/F, Building C, Gaoke No. 1, No. 160 Changling South Road, Guanshanhu District, Guiyang, Guizhou, 550081, People's Republic of China ~72: HU, Jiaojiao;HUANG, Guo;TAO, Zhengping;WANG, Shengyi;XIE, Zhenqiang;YANG, Shu;ZHONG, Yixing~ 33:CN ~31:202310389405.8 ~32:13/04/2023

2025/09290 ~ Complete ~54:BUOYANT OFFSHORE REWEWABLE ENERGY SYSTEM MOUNTING PLATFORM ~71:MARINE POWER SYSTEMS LIMITED, The Warehouse Building, Urban Village, United Kingdom ~72: FOSTER, Graham~ 33:GB ~31:2308050.0 ~32:30/05/2023

2025/09258 ~ Provisional ~54:SYSTEMS AND METHODS FOR GENERATING A LIVING-WAGE ATTAINMENT ROADMAP WITH UNLOCK-BASED MILESTONES AND SHAREABLE COMPLIANCE ARTIFACTS ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: KABELO DIALE~

2025/09260 ~ Provisional ~54:VEHICLE ACCESS CONTROL SYSTEM ~71:REDPRO (PTY) LTD, 36 Alkantrant Road, Lynnwood Corporate Park, Building B, South Africa ~72: Daniel G Claassen~

2025/09264 ~ Provisional ~54:SELF-SHREDDING CASH DEPOSIT MACHINE ~71:Makwena Ellias, 42 Temong Section, South Africa ~72: Makwena Ellias Nong~ 33:ZA ~31:2025/0311 ~32:01/11/2025

2025/09266 ~ Provisional ~54:EAZY SOLDERING CLAMP ~71:Dewald PRETORIUS, 13 BRANDER AVENUE, South Africa ~72: Dewald PRETORIUS~

2025/09272 ~ Complete ~54:AN ANCHOR ARRANGEMENT ~71:BOTHA, Raymond, Mark, FARM 134, KARINO, NELSPRUIT, 1204, South Africa ~72: BOTHA, Raymond, Mark;MARSHALL, Elton;MARSHALL, Garth~ 33:ZA ~31:2025/04302 ~32:21/05/2025

2025/09283 ~ Complete ~54:COMBINATIONS OF ONE OR MORE ALKYLAMIDOTHIAZOLES, TOCOPHEROL AND 3-O-ETHYL ASCORBIC ACID AND COSMETIC PREPARATIONS CONTAINING SUCH COMBINATIONS ~71:Beiersdorf AG, Beiersdorfstraße 1-9, HAMBURG 22529, GERMANY, Germany ~72: CHEN, Hanjun;DONGLIN, Xie;LUAN, Luan;WANG, Lu;ZHU, Xiao~ 33:IB ~31:2023/086216 ~32:04/04/2023

- APPLIED ON 2025/11/04 -

2025/09295 ~ Provisional ~54:YOUR CONVENIENT COMPANION ~71:Tebogo Moroe, 1234 Makapane Street. Rockville, Soweto., South Africa;Thato Moroe, 1234 Makapane Street. Rockville, Soweto, South Africa ~72: Tebogo Moroe;Thato Moroe~

2025/09299 ~ Provisional ~54:ANTI-MICROBIAL PEPTIDES DERIVED FROM LACTOFERRIN AND USES THEREOF ~71:DE NOVO FOODS, INC., 2093 Philadelphia Pike #9413, United States of America ~72: Dean Jason Sherry;Joni Symon~

2025/09300 ~ Complete ~54:SYSTEM AND METHOD FOR LINKING ENTITY PROFILES ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09305 ~ Complete ~54:PROVIDING MEDIA CONTENT FOR VIEWING BY AN ENTITY OF INTEREST ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09306 ~ Complete ~54:DYNAMICALLY PROVIDING MEDIA CONTENT IN A BROADCAST STREAM ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09297 ~ Provisional ~54:ANTI-HYPERTENSIVE PEPTIDES DERIVED FROM LACTOFERRIN AND USES THEREOF ~71:DE NOVO FOODS, INC., 2093 Philadelphia Pike #9413, United States of America ~72: Dean Jason Sherry;Joni Symon~

2025/09301 ~ Complete ~54:PROVIDING INTERACTION INFORMATION FOR ITEMS IN A PHYSICAL ENVIRONMENT ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09304 ~ Complete ~54:IDENTIFYING AND TRACKING AN ENTITY OF INTEREST IN AN IMAGE DATA STREAM ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09309 ~ Complete ~54:DISTRIBUTED COMPUTING SYSTEM AND METHOD FOR ENTITY PROFILE MANAGEMENT ACROSS DIFFERENT GEOGRAPHIC LOCATIONS ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09315 ~ Complete ~54:BROILER HEAT STRESS-RESISTANT FEED CONTAINING ELLAGIC ACID AND PREPARATION METHOD THEREOF ~71:Ganzhou polytechnic, No. 6, Tangfeng Avenue, New Energy Vehicle Technology City, Economic and Technological Development Zone, Ganzhou City, Jiangxi Province, People's Republic of China ~72: GAO Kai;HU Bin;KOU Yuhong;LIU Bifan;WU Huisheng;WU Rujuan;XIE Xinke;YAN Min;YANG Jiaming;YANG Menghong;YANG Tai;YU Lintian~

2025/09373 ~ Provisional ~54:SELF-CHARGING WEARABLE TRACKING DEVICE FOR PERSONAL AND PET SAFETY ~71:Swanepoel Family, 13 Apiesdoring street, Heiderand, South Africa ~72: Swanepoel Family~

2025/09308 ~ Complete ~54:ENTITY IDENTIFICATION-BASED CONTENT RETRIEVAL AND OUTPUT ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09312 ~ Complete ~54:ENTITY IDENTIFICATION AND TRACKING FROM A PREDEFINED ZONE WITHIN A PHYSICAL ENVIRONMENT ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09316 ~ Complete ~54:METHOD AND SYSTEM FOR MONITORING AND EARLY WARNING OF UNDERGROUND ENGINEERING SETTLEMENT BASED ON INSAR TECHNOLOGY ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: LI Peng;SONG Shuaiqi;WANG Xuan;WANG Zhi;YOU Peibo;YU Hongchang;ZHANG Jian;ZHU Bingsheng~

2025/09321 ~ Complete ~54:WATERPROOF GRADE TEST EQUIPMENT FOR AVIATION OBSTRUCTION LIGHT ~71:Hunan Lingte Technology Co., Ltd., Room 503, 5th Floor, Building 4, Zone A, Phase I Industrial Plant, Jindao Garden, No. 169, Huizhi Middle Road, High-tech Development Zone, Changsha, People's Republic of China ~72: Dongsan LIU;Hao LI;Liang XU;Xiangjun LI;Zebin LIU~ 33:CN ~31:202411686848.4 ~32:25/11/2024

2025/09322 ~ Complete ~54:AN AI-DRIVEN QUICK COMMERCE DELIVERY SYSTEM FOR RAPID, LEGAL AND RESPONSIBLE DELIVERY OF ALL TYPES OF BEVERAGES ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, India ~72: BADGUJAR, Aditya;BHANDARI, Mahesh;DEOLE, Soham;GUPTA, Anurag;KATARIA, Yash;KUMBHAR, Parnika Anil;MAGAR, Hanmant D.;MAKDE, Mohit;MIRAJKAR, Riddhi;SHAH, Dhairya;SOMVANSHI, Soham Dayanand~

2025/09323 ~ Complete ~54:AN AI-DRIVEN ORGANIZED AND TECHNOLOGY BASED SYSTEM OF MANAGING AGRICULTURAL WASTE ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, India ~72: AWASARMAL, Urmila Vikas;BHIMANPALLEWAR, Ratnmala Nivrutti;DESHMUKH, Shraddha Bhivraj;DONGARE, Prema Tukaram;MAHAJAN, Rupali;PALIKUNDWAR, Shravan Mahesh;PAWAR, Swaraj Rajendra;RATHI, Snehal;REGE, Pallavi;TIWASKAR, Shweta~

2025/09332 ~ Complete ~54:COMPUTER-IMPLEMENTED SYSTEM AND METHOD FOR SECURE FEDERATED STUDIES ~71:Evidentli Pty Ltd, Suite 516, 50 Holt Street, SURRY HILLS 2010, NEW SOUTH WALES, AUSTRALIA, Australia ~72: TSAFNAT, Dean;TSAFNAT, Guy~ 33:AU ~31:2023900994 ~32:05/04/2023

2025/09336 ~ Complete ~54:NOVEL B0AT1 INHIBITOR ~71:MITSUBISHI TANABE PHARMA CORPORATION, 3-2-10, Dosho-machi, Chuo-ku, Osaka-shi, Osaka, 5418505, Japan ~72: KAZUKI NAKAYAMA;KAZUNARI SHIMOOKA;TAKUYA IMAZU~ 33:JP ~31:2023-062369 ~32:06/04/2023;33:JP ~31:2023-123729 ~32:28/07/2023

2025/09294 ~ Provisional ~54:AN ACCESSORY ~71:ROSSI, Walter, Grato, PLOT 164, MONTANA, PRETORIA, SOUTH AFRICA, South Africa ~72: ROSSI, Walter, Grato~

2025/09314 ~ Complete ~54:MEDIA CONTENT OUTPUT IN A PHYSICAL ENVIRONMENT HAVING A PLURALITY OF ENTITY-DEVICE INTERFACES ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09318 ~ Complete ~54:STORAGE CASE FOR ENGINEERING SURVEYING AND MAPPING TOOLS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: DING, Leixiang;JIANG, Yongtao;LI, Huaijia;LI, Yage;WEN, Feng;WEN, Jie;ZHANG, Zhimin~

2025/09326 ~ Complete ~54:LARGE-MODEL HIERARCHICAL PRUNING METHOD AND SYSTEM BASED ON REINFORCEMENT LEARNING AND PRUNING IMPACT RATE ~71:ZHENGZHOU UNIVERSITY OF AERONAUTICS, No. 15 Wen Yuan West Road, Zhengdong New District, Zhengzhou, People's Republic of China ~72: FU, Fengge;LI, Lingling;LUO, Xiangyang;MA, Yiwen;TIAN, Bao;WANG, Chaoliang;XU, Mai;ZHANG, Yanshan;ZHAO, Xuezhu~ 33:CN ~31:202511353515.4 ~32:22/09/2025

2025/09334 ~ Complete ~54:COMBINATION OF A BTK INHIBITOR AND A FUMARIC ACID ESTER FOR USE IN THE TREATMENT OF MULTIPLE SCLEROSIS ~71:Biogen MA Inc., 225 Binney Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: HOPKINS, Brian T.;PALTE, Michael Joseph;SCARAMOZZA, Matthew P.;ZHU, Bing~ 33:US ~31:63/464,290 ~32:05/05/2023;33:US ~31:63/541,968 ~32:02/10/2023

2025/09293 ~ Provisional ~54:A DEVICE FOR DETECTING AND PREVENTING EYE DISEASES ~71:Karuna Yasvantrai SUKHA, 67 Protea Avenue, Extension 5, South Africa ~72: SUKHA, Anusha Yasvantrai;SUKHA, Karuna Yasvantrai~

2025/09303 ~ Complete ~54:MONITORING APPARATUS AND SYSTEM ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09313 ~ Complete ~54:INITIATION OF AN ACTION BASED ON MULTI-ENTITY IDENTIFICATION ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09320 ~ Complete ~54:A QUANTITATIVE EVALUATION METHOD AND SYSTEM FOR THE RELATIONSHIP BETWEEN SHEAR ZONE DEFORMATION AND MINERALIZATION BASED ON MAGNETIC FABRIC ~71:Kunming University of Science and Technology, No. 68, Wenchang Road, 121 Avenue, Wuhua District, Kunming City, Yunnan Province, 650031, People's Republic of China ~72: Jialong Cheng;Jiasheng Wang;Pingping Zhu;Qianqian Jiao;Wenchang Li;Xuelong Liu;Yuzhu Shi~ 33:CN ~31:202510606428.9 ~32:12/05/2025

2025/09324 ~ Complete ~54:A SMART INFANT GROWTH MONITORING PAD ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, India ~72: CHAVHAN, Gajanan Himantrao;CHAVHAN, Pranali G.;GAIKWAD, Vidya S.;KARNIK, Madhuri P.;RATHI, Snehal R.;SHEWALE, Chaitali R.;WANKHEDE, Disha Sushant~

2025/09328 ~ Complete ~54:METHOD FOR STRIP-TILLAGE OF SOYBEAMS IN CORN STUBBLE ROTATION SYSTEM ~71:JILIN AGRICULTURAL SCIENCE AND TECHNOLOGY COLLEGE, No. 77, Hanlin Road, Changyi District, People's Republic of China ~72: LIU, Ming;WU, Di~

2025/09311 ~ Complete ~54:TRACKING ENTITY MOVEMENT AND INTERACTIONS WITHIN A PHYSICAL ENVIRONMENT ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09317 ~ Complete ~54:STABILITY ANALYSIS METHOD FOR STATIC LIQUEFACTION INSTABILITY OF TAILINGS DAM AND ENGINEERING SLAG DUMP SLOPES ~71:Guangxi Communications Design Group Co., Ltd., No. 153 Minzu Avenue, Qingxiu District, Nanning City, Guangxi Zhuang Autonomous Region, 530000, People's Republic of China;Shanghai Baoye Group Corp., Ltd., No. 2457 Fuyuan Road, Baoshan District, Shanghai, 201908, People's Republic of China;Tongji University, No. 1239 Siping Road, Yangpu District, Shanghai, 200092, People's Republic of China ~72: CHEN Chuan;HAN Linlin;HE Maofeng;JIN Jinlong;LI Yishan;LIU Xianlin;LU Yixin;LYU Xilin;SHAO Yu;TANG Zhenghui;XU Kefeng;YANG Weihua;ZHU Changgen~

2025/09319 ~ Complete ~54:IMPROVED WAVE-FLAT CASTING AND ROLLING DEVICE AND METHOD FOR DOUBLE-LAYER METAL COMPOSITE PLATES ~71:TAIYUAN UNIVERSITY OF TECHNOLOGY, No. 79 Yingze West Street, Taiyuan, Shanxi Province, 030024, People's Republic of China ~72: CHEN Peng;HUANG Qingxue;LIU Xiao;MA Xiaobao;REN Zhongkai;WANG Tao;ZHANG Qi~

2025/09330 ~ Complete ~54:MAGNETO-THERMAL THERAPEUTIC GARMENT FOR ACUPOINT STIMULATION ~71:AIR FORCE MEDICAL UNIVERSITY, No. 169, Changle West Road, Xincheng District, Xi'an

City, People's Republic of China ~72: CHAI, Rundong;CHANG, Le;DUAN, Wei;GAO, Bo;HAN, Yuehu;HE, Xin;LUO, Zhuojing;WANG, Dong;WANG, Guanyi;YAN, Ming;YE, Zhengxu~ 33:CN ~31:2024116138617 ~32:12/11/2024

2025/09338 ~ Provisional ~54:BRUSKI: A SYSTEM AND METHOD FOR REAL-TIME SOCIAL VENUE DISCOVERY, CROWD AND SAFETY ANALYTICS, VIBE DETECTION, VENUE AND PARTNER COOPERATION, USER REWARD AND LOYALTY MANAGEMENT, GAMIFIED REVIEW AND RATING SYSTEM, PROMOTIONAL BROADCASTING, INCIDENT REPORTING, EMERGENCY ASSISTANCE, ROUTE TRACKING, SMART DEVICE INTEGRATION, AND MULTI-PLATFORM SOCIAL ENGAGEMENT NETWORK. ~71:Kimberly Lushano Watkins, 13 Medburn rd Camps bay, South Africa;Lourens Francois Nel, 13 Bonita Bay / Barracuda Bar, South Africa;Reghardt van der Westhuizen, 12 Shrimptial, South Africa ~72: Kimberly Lushano Watkins;Lourens Francois Nel;Reghardt van der westhuizen~

2025/09296 ~ Provisional ~54:PALESPEC ~71:Igshaan Daniels, 4 School End Street, South Africa ~72: Igshaan Daniels~

2025/09298 ~ Provisional ~54:ANTI-INFLAMATORY PEPTIDES DERIVED FROM LACTOFERRIN AND USES THEREOF ~71:DE NOVO FOODS, INC., 2093 Philadelphia Pike #9413, United States of America ~72: Dean Jason Sherry;Joni Symon~

2025/09302 ~ Complete ~54:SYSTEM AND METHOD FOR ENTITY PROFILE MANAGEMENT ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09337 ~ Complete ~54:ANGLE STEEL BLOW-GALVANIZING PROCESS FOR PROCESSING IRON TOWER MEMBERS ~71:QINGDAO HUIJINTONG POWER EQUIPMENT CO., LTD, Gongjiazhuang Village Industrial Park, Puji Town, Jiaozhou, Qingdao, Shandong 266300, People's Republic of China ~72: CONGXU GAO;DEZHI LIU;JIBAO LUO;JIE LIU;SEN LI~

2025/09331 ~ Complete ~54:TRANSPORT AND STORAGE CONTAINER FOR LIQUIDS ~71:PROTECHNA S.A., Avenue de la Gare 14, Switzerland ~72: ENDERS, Veit;GRASS, Jürgen~ 33:DE ~31:20 2023 102 365.7 ~32:02/05/2023

2025/09307 ~ Complete ~54:MONITORING ENTITY BEHAVIOR IN A PHYSICAL ENVIRONMENT RELATIVE TO OUTPUT OF CONTENT ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09310 ~ Complete ~54:AUDIO-BASED PROMPT GENERATION FOR A USER INTERFACE IN A PHYSICAL ENVIRONMENT ~71:INTERNET OF BEHAVIORS COMPANY, INC, 25081 Bernwood Drive, United States of America ~72: THEIS, Grant~

2025/09325 ~ Complete ~54:ANTI-SLIP DEVICE FOR GRATING ~71:SWARTS, JACOBUS JONATHAN JACOB, Plot 339, Dinie Estates Road, Kroondal, South Africa ~72: SWARTS, JACOBUS JONATHAN JACOB~ 33:ZA ~31:2024/07904 ~32:18/10/2024

2025/09327 ~ Complete ~54:SMART WATER MANAGEMENT SYSTEM FOR COAL MINE ~71:HUANGHE SURVEYING AND DESIGN PLANNING RESEARCH INSTITUTE CO., LTD, No. 109, Jinshui Road, Zhengzhou City, People's Republic of China;HUANGHE WATER RESOURCES COMMISSION, HUANGHE WATER RESOURCES SCIENCE INSTITUTE, No. 45, Shunhe Road, Zhengzhou City, People's Republic of China ~72: CAO, Jingjing;HAN, Jinxu;JIA, Yifei;LI, Enkuan;LI, Jingru;LI, Qiangkun;LUO, Yun;SONG, Ruiming;ZHANG, Fengran;ZHANG, Xiangyu~

2025/09329 ~ Complete ~54:BIOCHAR COMPOSITE FOR AMELIORATING ACIDIC BLACK SOIL AND PREPARATION METHOD THEREOF ~71:ZHEJIANG UNIVERSITY, No. 866, Yuhang Tang Road, Xihu District, Hangzhou City, Zhejiang University, Purple Garden Campus, People's Republic of China ~72: DAI, Zhongmin;LI, Yuling;PENG, Xinyi;ZHAO, Yifan~

2025/09333 ~ Complete ~54:BTK INHIBITOR FOR TREATING MULTIPLE SCLEROSIS ~71:Biogen MA Inc., 225 Binney Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: AREFAYENE, Million;BAME, Eris;PALTE, Michael Joseph;PARK, Gab-Jin;SCARAMOZZA, Matthew P.;SOLIMAN, Michael~
33:US ~31:63/464,288 ~32:05/05/2023;33:US ~31:63/541,965 ~32:02/10/2023

2025/09335 ~ Complete ~54:IMPROVED STRUCTURE FOR OENOLOGICAL PROCESSING ~71:NOFORM SRL, Via Delle Industrie II, 43, Italy ~72: CROSATO, Bruno~ 33:IT ~31:102023000009414 ~32:11/05/2023

- APPLIED ON 2025/11/05 -

2025/09818 ~ Provisional ~54:NTUSI KEY LINK ~71:NTUSI KEY LINK, 22972 Naartjie Crescent, South Africa ~72: Charles Sphesihle Ngema~

2025/09339 ~ Provisional ~54:SYSTEM AND METHOD FOR FACILITATING UPFRONT EDUCATIONAL FEE PAYMENTS WITH DEFERRED BENEFICIARY CONTRIBUTIONS FALLING OUTSIDE OF THE NCA ~71:Ariel Marcus, 80 Sandler Road, South Africa ~72: Ariel Marcus~

2025/09345 ~ Provisional ~54:ARTIFICIAL INTELLIGENCE SYSTEM FOR SIMULATING EMOTIONAL RESONANCE AND INSTINCTUAL CHOICE ~71:AMANTLE PITSO, 83 Hillside, Petra Street, Bayswater, South Africa ~72: AMANTLE PITSO~

2025/09354 ~ Complete ~54:BORON NITRIDE-BASED MATERIAL, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:TAIYUAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 66 Waliu Road, Wanbailin District, Taiyuan City, People's Republic of China ~72: GUO, Jiandong;GUO, Shaoqing;LI, Yuanling;NIU, Jian;WU, Hao~ 33:CN ~31:2025102405941 ~32:03/03/2025

2025/09355 ~ Complete ~54:A FLOTATION DEVICE ~71:VAN RENSBURG, Ferdinand, Adriaan, 49 OUKRAAL AVE, JUKSKEI PARK, ELARDUSPARK, PRETORIA, SOUTH AFRICA, South Africa ~72: VAN RENSBURG, Ferdinand, Adriaan~ 33:ZA ~31:2024/09897 ~32:20/12/2024

2025/09357 ~ Complete ~54:A METHOD FOR ISOLATING AND CULTURING CD4+CD8+ T CELLS AND ITS APPLICATION ~71:ZHANG JUAN, Department of Rheumatology and Immunology, The First Affiliated Hospital of Harbin Medical University, No. 23, Youzheng Street, Nangang District, People's Republic of China ~72: CHU, Maolin;HAN, Xue;JIA, Haonan;JIANG, Suna;XUE, Jiawei;ZHANG, Juan~

2025/09358 ~ Complete ~54:METHOD FOR ISOLATING AND CULTURING CD20+CD3+ T CELLS AND APPLICATION ~71:ZHANG, Juan, Department of Rheumatology and Immunology, The First Affiliated Hospital of Harbin Medical University, No. 23, Youzheng Street, Nangang District, People's Republic of China ~72: CHU, Maolin;HAN, Xue;JIANG, Suna;XUE, Jiawei;ZHANG, Juan~

2025/09360 ~ Complete ~54:AGRICULTURAL SAMPLE SLURRY PREPARATION SYSTEM AND RELATED METHODS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: LEVY, Kent~ 33:US ~31:63/507,517 ~32:12/06/2023

2025/09361 ~ Complete ~54:RESPIRATORY SYNCYTIAL VIRUS VACCINE AND METHODS OF USE ~71:SANOFI PASTEUR INC., 1 Discovery Drive, Swiftwater, United States of America;THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES,

OFFICE OF TECHNOLOGY TRANSFER, NATIONAL INSTITUTES OF HEALTH, Office of Technology Transfer, National Institutes of Health, 6701 Rockledge Drive, Suite 700, United States of America ~72: BUCHHOLZ, Ursula Johanna;CARAYOL, Sebastien;COLLINS, Peter Leon;GALLICHAN, William, Scott;HRYNYK, Michael;IDOKO, Olubukola, Temitope;LI, Qinglian;RAHMAN, Nausheen;SOGOYAN SESAY, Sanie, Samuel~ 33:US ~31:63/501,497 ~32:11/05/2023;33:US ~31:63/627,541 ~32:31/01/2024

2025/09362 ~ Complete ~54:METHODS AND APPARATUSES FOR OPTIMIZED REPORTING OF FAILED RANDOM ACCESS MESSAGE TRANSMISSIONS IN UNLICENSED SPECTRUM ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: BELLESCHI, Marco;LUNARDI, Luca;PARICHEHREHTEROUJENI, Ali;RAMACHANDRA, Pradeepa;RUNE, Johan~ 33:US ~31:63/459,298 ~32:14/04/2023

2025/09346 ~ Complete ~54:PATH PLANNING METHOD AND SYSTEM BASED ON DYNAMIC ILLUMINATION ~71:Deep Space Exploration Laboratory, Building F1-F4, Zhong'an Chuanggu Phase II, High-tech Zone, Hefei City, Anhui Province, 230026, People's Republic of China ~72: MIAO, Qingliang;WEI, Guangfei~ 33:CN ~31:202511352810.8 ~32:22/09/2025

2025/09349 ~ Complete ~54:IRON-COPPER BIMETALLIC OXIDE FOR REMOVING SB(V) FROM WASTEWATER ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LongXiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: BAI Nan;GAO Ranran;HAO Xiyang;HU Xiaoxian;LI Xinyu;LI Zhuofan;WEI Yulin;ZHANG Di~

2025/09353 ~ Complete ~54:A SELF-CENTERING DUAL-ENERGY-DISSIPATING PREFABRICATED BEAM-COLUMN JOINT DEVICE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: CUI Yanwei;GUO Weiwei;LI Jiangle;MAN Yuan;SHI Luke;YIN Xiaojing~

2025/09340 ~ Provisional ~54:COMMUNICATION SYSTEM AND METHOD ~71:STEFAN PRETORIUS, 10 HM SWART STREET, South Africa ~72: STEFAN PRETORIUS~

2025/09374 ~ Provisional ~54:A STRUCTURAL-GROWTH ARTIFICIAL-INTELLIGENCE TUTORING SYSTEM FOR CURRICULUM-ALIGNED LEARNING ~71:Philip Jansen, 11 Carolus Street, South Africa ~72: Philip Jansen~

2025/09371 ~ Provisional ~54:THE E-BURNER ~71:EBRAHIMA SAFTER I/D 6210225135086, 53 FRANCIS STREET DISTRICT SIX, South Africa ~72: EBRAHIMA SAFTER I/D 6210225135086~

2025/09356 ~ Complete ~54:A METHOD FOR ISOLATING AND CULTURING CD20+CD8+ T CELLS AND ITS APPLICATION ~71:ZHANG JUAN, Department of Rheumatology and Immunology, The First Affiliated Hospital of Harbin Medical University, No. 23, Youzheng Street, Nangang District, People's Republic of China ~72: CHU, Maolin;HAN, Xue;JIA, Haonan;JIANG, Suna;XUE, Jiawei;ZHANG, Juan~

2025/09363 ~ Complete ~54:NOVEL CANCER TREATMENTS WITH IL-2 CONJUGATES ~71:ASCENDIS PHARMA ONCOLOGY DIVISION A/S, TUBORG BOULEVARD 12, 2900 HELLERUP, DENMARK, Denmark ~72: KNAPPE, Thomas;KURPIERS, Thomas;LANÇA, Telma;MILLER BREINHOLT, Vibeke;SINGEL, Stina~ 33:US ~31:63/501,115 ~32:09/05/2023;33:US ~31:63/578,017 ~32:22/08/2023;33:US ~31:63/591,684 ~32:19/10/2023

2025/09366 ~ Complete ~54:A METHOD AND SYSTEM OF IDENTIFYING AND SHARING A COMPUTER SESSION ~71:ZUDOMANZI (PTY) LTD, 152 Lamont Road, Glenwood, South Africa ~72: KUNENE, Ra;KUNENE, Zosokuma Sepiri~ 33:US ~31:63/457,497 ~32:06/04/2023

2025/09343 ~ Provisional ~54:LUSHSCAPE BIODEGRADABLE SINGLE-USE FACE CLOTH FOR SKINCARE AND SPA APPLICATIONS ~71:Desirous Antonio, 2294 Barrydale Street, Model Park, South Africa ~72: Desirous Tryphinah Providence Antonio~

2025/09348 ~ Complete ~54:A MOXIBUSTION RACK FOR TRADITIONAL CHINESE MEDICINE REHABILITATION PHYSIOTHERAPY ~71:The Second Affiliated Hospital of Anhui University of Chinese Medicine (Anhui Acupuncture Hospital), The Second Affiliated Hospital of Anhui University of Chinese Medicine, No. 300, Shouchun Road, Luyang District, Hefei City, Anhui Province, 230001, People's Republic of China ~72: Li Li~

2025/09341 ~ Provisional ~54:HUMAN CARDIAC SPHEROIDS ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, South Africa ~72: BLIGNAUT, Marguerite;MLABA, Nokulunga~

2025/09342 ~ Provisional ~54:PROXIMITY-BASED PEER-TO-PEER DIGITAL FILE DISTRIBUTION AND RESALE SYSTEM AND METHOD ~71:Mc CALLAGHAN, Eric Johannes, 21 Fraser Street, Hunters Home, KNYSA 6571, WC, SOUTH AFRICA, South Africa ~72: Mc CALLAGHAN, Eric Johannes~

2025/09344 ~ Provisional ~54:FLIPSCORE™: SYSTEM AND METHOD FOR GENERATING A FINANCIAL WELLNESS SCORE BASED ON TELECOMMUNICATION ASSET MANAGEMENT BEHAVIOR ~71:EaziRide (Pty) Ltd, 145 Second Street, Parkmore, Sandton, South Africa ~72: Aubrey Modise~

2025/09352 ~ Complete ~54:PRECISE, TIMELY, AND NON-DESTRUCTIVE FERTILIZATION METHOD FOR CYPERUS ESCULENTUS L. IN WEAK FERTILIZER-RETAINING SOIL ~71:Xinjiang Academy of Forestry Science, Desert Afforestation Institute, No. 191, Anju South Road, Shuimogou District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: Baye SANG;Gulimina TUERSUNJIANG;Jianglin CHEN;Jun ZHANG;Qimin CHEN;Qinghong LUO;Shenghui LI;Yuxia WANG;Zhigang LI~ 33:CN ~31:2025113891040 ~32:26/09/2025

2025/09359 ~ Complete ~54:SUSPENDED SELF-DRILLING ANCHOR ROD DEVICE ~71:Nantong SupAnchor Geotechnical Systems Co., Ltd., No. 186, Lehai Avenue, Tongzhou Bay, River-Sea Joint Development Demonstration Zone, Nantong, People's Republic of China ~72: Bingcheng LIU;Li'ang LIU~ 33:US ~31:19/369,100 ~32:24/10/2025

2025/09369 ~ Complete ~54:METHODS OF TREATING CHRONIC GRAFT-VERSUS-HOST DISEASE-RELATED BRONCHIOLITIS OBLITERANS SYNDROME USING AN ANTI-COLONY STIMULATING FACTOR 1 RECEPTOR ANTIBODY ~71:Syndax Pharmaceuticals, Inc., 35 Gatehouse Drive, Building D, Floor 3, WALTHAM 02451, MA, USA, United States of America ~72: ORDENTLICH, Peter;RADOJCIC, Vedran~ 33:US ~31:63/467,169 ~32:17/05/2023

2025/09350 ~ Complete ~54:INTERCROPPING METHOD OF CYPERUS ESCULENTUS L. AND TREES FOR EFFICIENT WATER AND FERTILIZER UTILIZATION ~71:Xinjiang Academy of Forestry Science, Desert Afforestation Institute, No. 191, Anju South Road, Shuimogou District, Urumqi, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: Baye SANG;Gulimina TUERSUNJIANG;Jianglin CHEN;Jun ZHANG;Qimin CHEN;Qinghong LUO;Shenghui LI;Yuxia WANG;Zhigang LI~ 33:CN ~31:2025113891021 ~32:26/09/2025

2025/09367 ~ Complete ~54:METHANOLYTIC AGENTS AND METHODS OF USING THE SAME ~71:LUMEN BIOSCIENCE, INC., 1441 North 34th Street, Suite 300, United States of America ~72: BRADY, Colin Matthew Watson;GEWE, Mesfin Mulugeta;HEINNICKEL, Mark Lewis;KEENEY, Kristie Miller;KHUONG, Nhi Yen;ROBERTS, James Michael~ 33:US ~31:63/502,394 ~32:15/05/2023

2025/09347 ~ Complete ~54:PATHOLOGICAL IMAGE CLASSIFICATION METHOD FOR ASSISTING PATHOLOGICAL DIAGNOSIS AND SYSTEM THEREFOR ~71:AFFILIATED HOSPITAL OF ZUNYI MEDICAL UNIVERSITY, No. 149, Dalian Road, Huichuan District, Zunyi City, Guizhou Province, People's Republic of China ~72: Chengfang Li;Lei Qin;Xiaoli Dong~ 33:CN ~31:2025115349865 ~32:27/10/2025

2025/09351 ~ Complete ~54:A MULTIFUNCTIONAL ENERGY-SAVING INVISIBLE HIGH-EFFICIENCY POWER STATION ~71:Shantou Huixing Engineering Equipment Co., Ltd., The fifth floor on the right side of Building B20, Nanpian Industrial Zone, Longhu District, Shantou City, Guangdong Province, 515000, People's Republic of China ~72: Jiang Mingxi~ 33:CN ~31:2024115945159 ~32:09/11/2024

2025/09364 ~ Complete ~54:ENHANCED CSI REPORTING ACTIVATION/DEACTIVATION OPERATION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DEGHEL, Matha;TURTINEN, Samuli, Heikki;WU, Chunli~

2025/09365 ~ Complete ~54:IN-LOOP FILTERS AT VIRTUAL BOUNDARIES FOR FLEXIBLE GDR ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: HONG, Seungwook;PANUSOPONE, Krit;WANG, Limin~ 33:US ~31:63/495,331 ~32:11/04/2023

2025/09368 ~ Complete ~54:DRUG-LINKERS AND DRUG CONJUGATES ~71:SOLVE THERAPEUTICS, INC., 11045 Roselle Street, Suite 130, San Diego, United States of America ~72: JESSEN, Katti;LANNUTTI, Brian;WATKINS, Jeff~ 33:US ~31:63/503,387 ~32:19/05/2023;33:US ~31:63/535,991 ~32:31/08/2023;33:US ~31:63/606,521 ~32:05/12/2023;33:US ~31:63/558,052 ~32:26/02/2024

2025/09370 ~ Provisional ~54:MALLTIME ~71:EBRAHIMA SAFTER I/D 6210225135086, 53 FRANCIS STREET DISTRICT SIX, South Africa ~72: EBRAHIMA SAFTER I/D 6210225135086~

- APPLIED ON 2025/11/06 -

2025/09412 ~ Complete ~54:5,6-FUSED AND 6,6-FUSED BICYCLIC ALCOHOLS AND ETHERS AND COMPOSITIONS FOR USE AS 15-PROSTAGLANDIN DEHYDROGENASE MODULATORS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: ALLEN, John G.;AMEGADZIE, Albert K.;BOURBEAU, Matthew P.;GREENMAN, Kevin Lloyd;LI (Deceased), Kexue;PICKRELL, Alexander J.;WANG, Hui-Ling;WEIRES, Nicholas Anthony~ 33:US ~31:63/501,059 ~32:09/05/2023;33:US ~31:63/640,585 ~32:30/04/2024

2025/09410 ~ Complete ~54:STATOR LINING, STATOR AND METHOD FOR PRODUCING A STATOR LINING ~71:DAUNHEIMER, Ralf, Rüter Weg 16, Germany ~72: DAUNHEIMER, Ralf~ 33:DE ~31:10 2023 115 951.8 ~32:19/06/2023

2025/09414 ~ Complete ~54:STRAINER FAILURE PSA MODELING METHOD AND SYSTEM FOR PASSIVE NUCLEAR POWER PLANT ~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: HU, Juntao;HU, Yuehua;LI, Zhaohua;QIU, Yongping;SHI, Guobao;XU, Yiquan;YAN, Jinqun;ZHAN, Wenhui;ZHANG, Binbin~ 33:CN ~31:202310378064.4 ~32:07/04/2023

2025/09402 ~ Complete ~54:SYSTEM FOR CONTROLLING THE DISPLAY SCREEN OF A COMPUTER ~71:VIBROSYSTEM INC., 2727, boul. Jacques-Cartier Est, Longueuil, Québec, J4N 1L7, Canada ~72: MATHIEU CLOUTIER;VINCENT LECOMTE~ 33:US ~31:63/720,229 ~32:14/11/2024;33:US ~31:63/754,012 ~32:05/02/2025

2025/09417 ~ Complete ~54:METHOD AND ASSEMBLY FOR MAINTAINING AN ITEM OF EQUIPMENT OF AN INDUSTRIAL FACILITY ~71:FRAMATOME, 1 place Jean Millier, France ~72: CAHOUE, Laurent;LORIOT, Benjamin;THORIN, Philippe~ 33:FR ~31:FR2304668 ~32:11/05/2023

2025/09421 ~ Complete ~54:RAPID ELECTRONIC AXIS ALIGNMENT CONTROL METHOD AND CONTROL SYSTEM FOR PHOTOELECTRIC POD ~71:LUOYANG INSTITUTE OF ELECTRO-OPTICAL EQUIPMENT OF AVL, No. 25 Kaixuan West Road Luoyang, People's Republic of China ~72: LIU, Jiayin;LIU, Nian;ZAN, Baoliang;ZHANG, Hongluo~ 33:CN ~31:202311492915.4 ~32:09/11/2023

2025/09382 ~ Complete ~54:MODIFIED YAK MANURE BIOCHAR AS WELL AS PREPARATION METHOD THEREFOR AND APPLICATION THEREOF ~71:Xizang University, No.10, East Zangda Road, Lhasa City, Xizang, 850015, People's Republic of China ~72: GU, Zengrui;LI, Jiaxuan;LI, Wei;LONG, Qin;LV, Xuebin;WANG, Jumei;XIONG, Jian;ZHANG, Yahao~

2025/09398 ~ Complete ~54:SURGICAL ROOM NURSING INTRAVENOUS INFUSION LEAKAGE PREVENTION DEVICE ~71:TAIZHOU PEOPLE'S HOSPITAL, NO.366, TAIGONG ROAD, HIGH-TECH ZONE FOR MEDICINE, TAIZHOU CITY, People's Republic of China ~72: BI, Furong;CAO, Xiuhong;CUI, Lili;DOU, Hongmei;PAN, Yan;REN, Zhenqing~

2025/09401 ~ Complete ~54:ACQUISITION UNIT AND ASSOCIATED METHOD OF ACQUIRING DATA FROM A ROTATING ELECTRIC MACHINE AT A FACILITY ~71:VIBROSYSTEM INC., 2727, boul. Jacques-Cartier Est, Longueuil, Québec, J4N 1L7, Canada ~72: MATHIEU CLOUTIER~ 33:US ~31:63/720,229 ~32:14/11/2024

2025/09405 ~ Complete ~54:MODIFIED RELEASE PHARMACEUTICAL COMPOSITION ~71:RADOGANI (PTY) LTD, 1 Sherborne Road, Parktown, South Africa ~72: MOHAMED, Hafeez~

2025/09416 ~ Complete ~54:PILE END POST-GROUTING PREFABRICATED INCLINED STRUT ~71:China Construction Sixth Engineering Division.corp.ltd, No. 72, Hangzhou Road, Hangzhou Road Sub-district, Binhai New Area, Tianjin, People's Republic of China ~72: Bin Yu;Donghu Liu;Heng Gu;Jianan Fan;Jun Cong;Qiang Liu;Xu Zhao;Yuancheng Wang;Yuanqiu Xu;Yuhua Sun~ 33:CN ~31:2024224973558 ~32:16/10/2024

2025/09418 ~ Complete ~54:COMBINATION COMPRISING A THR-BETA AGONIST AND A GLP-1R AGONIST FOR USE IN TREATING A LIVER DISORDER OR A CARDIOMETABOLIC DISEASE ~71:TERNS PHARMACEUTICALS, INC., 1065 E. Hillsdale Blvd., Suite 100, Foster City, California 94404, United States of America ~72: CHRISTOPHER T JONES;JEFFREY R JASPER;KEVIN P QUINN;OLIVIA D TEAL~ 33:US ~31:63/495,049 ~32:07/04/2023;33:US ~31:63/526,362 ~32:12/07/2023;33:US ~31:63/615,985 ~32:29/12/2023

2025/09424 ~ Provisional ~54:MOBILE NUMBER-BASED BLOCKCHAIN ASSET TRANSFER SYSTEM WITH SIM CARD SECURE ELEMENT AUTHENTICATION ~71:FRANCOIS PIERRE JOUBERT, 521,20th Ave, Rietfontein Pretoria, South Africa ~72: FRANCOIS PIERRE JOUBERT~

2025/09425 ~ Provisional ~54:TOOTHBRUSH HANDLE ~71:MR MOSALA COMFORT LEMEKE, House 176 Rafreddy Section, South Africa ~72: MR MOSALA COMFORT LEMEKE~

2025/09419 ~ Complete ~54:VIDEO ENCODING METHOD AND APPARATUS, VIDEO DECODING METHOD AND APPARATUS, AND DEVICE, SYSTEM AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang'an, Dongguan, Guangdong 523860, People's Republic of China ~72: ZHIHUANG XIE~

2025/09397 ~ Complete ~54:NEW TYPE OF PREFABRICATED CONCRETE PIPE FRAME STRUCTURE WITH DRY BOLT CONNECTION ~71:LIANYUNGANG PORT CONSTRUCTION AND INSTALLATION ENGINEERING CO., LTD., NO. 5, HAIFENG ROAD, LIANYUN DISTRICT, LIANYUNGANG CITY, People's Republic of China ~72: HU, Jicheng;HU, Xiang;JIANG, Wei;LI, Jingui;LUO, Xin;QI, Mingwei;TAO, Yin;WANG, Dawei;YU, Xinxin;ZHAO, Li~

2025/09422 ~ Complete ~54:SYSTEM AND METHOD FOR REPORTING OFFENCES ~71:DA FONSECA, Ricardo, Unit 1 Brookend Office Park, 30 Brookend Close, South Africa;OLINSKY, Kevin Lester, Unit 1 Brookend Office Park, 30 Brookend Close, South Africa;SWALES, Warren, Unit 1 Brookend Office Park, 30 Brookend Close, South Africa ~72: DA FONSECA, Ricardo;OLINSKY, Kevin Lester;SWALES, Warren~ 33:ZA ~31:2023/04569 ~32:20/04/2023

2025/09691 ~ Provisional ~54:POCKETNURSES ~71:Lehlomela Phakisi, 107 Bosswell, South Africa ~72: Lehlomela Phakisi~

2025/09377 ~ Provisional ~54:AUTOFLUSH – PRESSURE-ACTIVATED SELF-FLUSHING VALVE FOR DRIP IRRIGATION ~71:Quartus Paulus Botha, Erf 2530, South Africa ~72: Quartus Paulus Botha~

2025/09379 ~ Provisional ~54:VOICEMIND ~71:VOICEMIND (PTY) LTD, 516 Atterbury Road Merestone Unit 6, South Africa ~72: Crystelle De Mendonca;Gabriella Shade De Mendonca;Megan Mounique De Mendonca~

2025/09384 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INTERNALIZING ENZYMES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BAIK, Andrew;CYGNAR, Katherine;KYRATSOUS, Christos;SCHOENHERR, Christopher;WANG, Cheng~ 33:US ~31:62/516,656 ~32:07/06/2017;33:US ~31:62/574,719 ~32:19/10/2017;33:US ~31:62/673,098 ~32:17/05/2018

2025/09386 ~ Complete ~54:INTELLIGENT DECISION-MAKING SYSTEM FOR MINE SITE ECOLOGICAL RESTORATION SCHEMES BASED ON MACHINE LEARNING ~71:Gansu Desert Control Research Institute, No. 390, Beibinhe West Road, Anning District, Lanzhou City, Gansu Province, 730070, People's Republic of China;LANZHOU UNIVERSITY, No. 222, Tianshui South Road, Chengguan District, Lanzhou City, Gansu Province, 730099, People's Republic of China ~72: Bin XIAO;Dacheng SONG;Gaofeng ZHU;Hao WU;Heran ZHAO;Jingrui WANG;Lide WANG;Sihang CHEN~ 33:CN ~31:2025114957986 ~32:20/10/2025

2025/09392 ~ Complete ~54:COMPOSITE POROUS CARBON MATERIAL ELECTRODE AND APPLICATION THEREOF IN CAPACITIVE DEIONIZATION DESALINATION ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LongXiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: HU Xiaoxian;LI Houyun;LI Xinyu;LIU Shaofeng;OUYANG Kongxu;ZHANG Wenxiang~

2025/09395 ~ Complete ~54:DOUBLE-LEAF SLUICE GATE WITH INTELLIGENT MONITORING AND AUTOMATIC REGULATION FUNCTIONS ~71:TIANJIN UNIVERSITY, No. 92, Weijin Road, Nankai District, People's Republic of China ~72: ZHAO, Xin~ 33:CN ~31:2025109300048 ~32:07/07/2025

2025/09400 ~ Complete ~54:APPARATUS AND PROCESS FOR LOW TEMPERATURE REGENERATION OF ADSORBENT MATERIAL ~71:AIR PRODUCTS AND CHEMICALS, INC., 1940 Air Products Boulevard, Allentown, Pennsylvania, 18106-5500, United States of America ~72: CHRISTOPHER ROBERT BONGO;DINGJUN WU;JHOAN ESTEBAN USECHE MORALES;SIMON GIBSON~ 33:US ~31:18/944,730 ~32:12/11/2024

2025/09403 ~ Complete ~54:DATA DISPLAY DEVICE FOR UNMANNED AERIAL VEHICLE INSPECTION OF WATER CONSERVANCY FACILITIES ~71:ANHUI WATER CONSERVANCY TECHNICAL COLLEGE, NO. 18,

HEMA ROAD, DONGMEN, People's Republic of China ~72: DING, Youbin;HU, Yuling;WANG, Fang;WEI, Jilian;ZHANG, Haie~

2025/09404 ~ Complete ~54:ORAL COMPOSITION ~71:RADOGANI (PTY) LTD, 1 Sherborne Road, Parktown, South Africa ~72: MOHAMED, Hafeez~

2025/09407 ~ Complete ~54:DIETARY SUPPLEMENT ~71:RADOGANI (PTY) LTD, 1 Sherborne Road, Parktown, South Africa ~72: MOHAMED, Hafeez~

2025/09420 ~ Complete ~54:METHODS AND SYSTEMS FOR TRANSPORTING VISCOUS FLUIDS IN A MOVING HYDROGEL TUBE ~71:THE UNIVERSITY OF BRITISH COLUMBIA, University-Industry Liaison Office, 103 - 6190 Agronomy Road, Canada ~72: BUCHEN, Michael;DELFEL, Sean Matthew;MACKENZIE, Jordan;MARTINEZ, Dominic Mark;YOUNES, Rami~ 33:US ~31:63/499,692 ~32:02/05/2023

2025/09394 ~ Complete ~54:HYDROGEN PIPELINE CRACK DAMAGE ACOUSTIC EMISSION DETECTION SYSTEM BASED ON CLOUD NATIVE AND DIGITAL TWIN ~71:XI'AN EURASIA UNIVERSITY, NO. 8 DONGYI ROAD, YANTA DISTRICT, XI'AN CITY, People's Republic of China ~72: HE, Pengju;LIU, Xin;SHENG, Panlong;XU, Yimei;YANG, Lei;ZHANG, Xiufang;ZHAO, Lang~

2025/09375 ~ Provisional ~54:PRODUCTION OF COMPOSITIONS COMPRISING CANNABINOIDS, TERPENES, AND/OR CANNABIMIMETIC COMPOUNDS ~71:Herbal Research and Development Centre (Pty) Ltd, 15 Tiptol Street, Sedgefield, Knysna, Cape Town 6573, Western Cape, SOUTH AFRICA, South Africa ~72: De Jong, Gertruida Elizabeth~

2025/09380 ~ Provisional ~54:SYSTEM AND METHOD FOR ENSURING DATA INTEGRITY AND PORTABILITY IN DISTRIBUTED RENEWABLE ENERGY CARBON CREDIT GENERATION ~71:Mehlo AI (Pty) Ltd, 173 Oxford Road, The Link, South Africa ~72: Tshidiso Radinne~

2025/09381 ~ Complete ~54:URINARY CATHETERIZATION DEVICE FOR SMALL ANIMALS ~71:Baotou Medical College, Inner Mongolia University of Science and Technology, No. 31 Jianshe Road, Donghe District, Baotou City, Inner Mongolia Autonomous Region, 014040, People's Republic of China;The First Affiliated Hospital of Wenzhou Medical University, The new campus of the First Affiliated Hospital of Wenzhou Medical University, Shangcai Village, Nanbaixiang, Ouhai District, Wenzhou City, Zhejiang Province, 325015, People's Republic of China ~72: HAN Xiaomin;JU Hongge;MA Qiang;WANG Xingyu;WU Weiqiang;ZHENG Kewen~

2025/09388 ~ Complete ~54:SUPER ENERGY STORAGE SYSTEM FOR HYDROELECTRIC GENERATION ~71:Zhonghe Earth (Beijing) Quantum Application Research Institute Co., Ltd., Room 383, No. 2 Limu Road, Beixiaoying Town, Shunyi District, Beijing, 100007, People's Republic of China ~72: Kong Fanze;Lei Yongquan;Li Xinzhu;Sun Zhaojun~ 33:CN ~31:2025115880089 ~32:03/11/2025

2025/09393 ~ Complete ~54:ARTIFICIAL INTELLIGENCE MACHINE VISION IMAGE ACQUISITION DEVICE ~71:ANQING NORMAL UNIVERSITY, NO. 128, LINGHU SOUTH ROAD, ANQING CITY, People's Republic of China ~72: DU, Jiang;TANG, Fei;WANG, Fei~

2025/09396 ~ Complete ~54:ADAPTIVE VARIABLE-ELEVATION WATER INTAKE DEVICE FOR COMPLEX RESERVOIR ENVIRONMENTS ~71:TIANJIN UNIVERSITY, No. 92, Weijin Road, Nanjiao District, People's Republic of China ~72: YANG, Dongdong;ZHAO, Xin~ 33:CN ~31:2025109296235 ~32:07/07/2025

2025/09399 ~ Complete ~54:SMART TRANSPORTATION BIG DATA METHOD AND SYSTEM ~71:TARIM UNIVERSITY, NO. 705, HONGQIAO SOUTH ROAD, ALAER CITY, People's Republic of China ~72: HU, Xuwei;WANG, Cheng~

2025/09406 ~ Complete ~54:PHARMACEUTICAL COMPOSITION FOR MODIFIED RELEASE ~71:RADOGANI (PTY) LTD, 1 Sherborne Road, Parktown, South Africa ~72: MOHAMED, Hafeez~

2025/09408 ~ Complete ~54:METHODS OF IMPROVING RAAV PRODUCTION ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, MA, United States of America ~72: BENITEZ, Carlos;CHEN, Kevin Victor;LEE, Jeong;LIU, Ying;NELLIMARLA, Srinivas~ 33:US ~31:63/462,209 ~32:26/04/2023;33:US ~31:63/462,212 ~32:26/04/2023

2025/09411 ~ Complete ~54:METHOD FOR REDUCING 1,1,1,2,2-PENTAFLUOROPROPANE (HFC-245CB) IN A PROCESS FOR PRODUCING TRANS-1,3,3,3-TETRAFLUOROPROPENE (HFO-1234ZE(E)) ~71:Honeywell International Inc., Intellectual Property Services Group, 855 S. Mint Street, CHARLOTTE 28202, NC, USA, United States of America ~72: GUSTAVO, Cerri;HORWATH, Richard D.;MAY, Benson;WANG, Haiyou~ 33:US ~31:63/466,119 ~32:12/05/2023;33:US ~31:18/660,212 ~32:09/05/2024

2025/09376 ~ Provisional ~54:SELF-SENSING LEAK-DETECTING PIPE ~71:Flipware, 82 Smit Street, South Africa ~72: Thanduxolo Aubrey Mthembu~

2025/09378 ~ Provisional ~54:IZZY SHOPPING FOR VISUALLY IMPAIRED ~71:MABOA ESROM, 799 OVENBUSH STREET, South Africa ~72: Izzy Maboa Holding Pty Ltd~

2025/09385 ~ Complete ~54:DOUBLE ELECTRICITY-FREE DIGITAL CURRENCY PAYMENT TERMINAL AND PAYMENT METHOD THEREOF ~71:FUJIAN ZHAOFUTONG INTERNET OF THINGS TECHNOLOGY CO., LTD., Room 412, Building 16, Area E, Fuzhou Software Park, No. 89 Software Avenue, People's Republic of China ~72: CHEN, Jiyu;MAO, Shimin;MAO, Wenfang;ZHANG, Jinshan;ZHENG, Junling~

2025/09387 ~ Complete ~54:SPECIALIZED LINE-DRAWING TOOL FOR ENGLISH TEACHING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: SONG Liqiang;WANG Yunna;ZHANG Huancheng~

2025/09390 ~ Complete ~54:ENGLISH STANDARD WRITING PRACTICE DEVICE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: SONG Liqiang;WANG Yunna;ZHANG Huancheng~

2025/09383 ~ Complete ~54:METHOD FOR PREPARING SILICON-BASED PRUSSIAN BLUE NANOZYME AND PRODUCT THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: DANG Liyun;GUO Yan;SONG Yongxin;WANG Chuanfeng;YANG Jing;ZHANG Pengyan;ZHANG Shuaiguo~

2025/09389 ~ Complete ~54:ULTRAFINE GRINDER FOR DRUG PROCESSING ~71:Yunnan University of Chinese Medicine, No. 1076 Yuhua Road, Chenggong District, Kunming City, Yunnan Province, 650500, People's Republic of China ~72: CAI, Hongyan;CHANG, Lu;CHENG, Dejun;CUI, Maoying;GU, Ruirui;LI, Li;LIU, Haijia;LIU, Lu;SHU, Qijiang;WANG, Kaiying;WU, Shaoying;ZHANG, Hang~

2025/09391 ~ Complete ~54:POPPY SEED VITALITY DETECTION DEVICE ~71:Forestry Resources Monitoring Institute of Henan Forestry Administration, No. 81 Zhenghua North Road, Jinshui District, Zhengzhou City, Henan Province, 450000, People's Republic of China;Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China;Pingdingshan Landscaping Center, Hebin Park, No.9, Zhongxing Road, Zhanhe District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: LI Leilei;LI Zhi;LIU Yaqiong;WANG Ya;WU Zhenjiang;XIANG Hui~

2025/09409 ~ Complete ~54:OXOPIPERAZINE DERIVATIVES FOR THE TREATMENT OF CANCER
~71:INTHERA BIOSCIENCE AG, c/o Aeppli & Mueller Consulting GmbH, Switzerland ~72: CLOOS, Paul
Andreas Compare;HENTSCH, Bernd;STØIER, Jonathan Fullerton;VACHER-COMET, Itys~
33:US ~31:63/504,576 ~32:26/05/2023;33:US ~31:63/513,220 ~32:12/07/2023

2025/09413 ~ Complete ~54:SIGNALING MULTIPLE PREDICTED BVD/MVD SUFFIX CHOICES ~71:Koninklijke
Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: DINAN,
Esmael Hejazi;FILIPPOV, Alexey Konstantinovich;RUFITSKIY, Vasily Alexeevich~ 33:US ~31:63/457,860
~32:07/04/2023

2025/09415 ~ Complete ~54:AUTOMATIC MONITORING METHOD AND SYSTEM FOR TECHNICAL
SPECIFICATION OF NUCLEAR POWER PLANT OPERATION ~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: CHEN, Jiarong;CHEN, Song;GUO, Donghai;LIU, Jie;LIU, Wei;SHI, Jin;WANG,
Xujia;WANG, Yufan;ZHANG, Wei;ZHOU, Jianwen~ 33:CN ~31:202310369728.0 ~32:07/04/2023

- APPLIED ON 2025/11/07 -

2025/09459 ~ Complete ~54:BIODEGRADABLE PVC REPLACEMENT ~71:DANIMER IPCO, LLC, 140 Industrial
Boulevard, Bainbridge, Georgia, 39817, United States of America ~72: ABDALA BASHIR;ERIC
MCCLANAHAN;KARSON DURIE;MANGALDEEP KUNDU;MICHAEL N MANG~ 33:US ~31:63/460,499
~32:19/04/2023;33:US ~31:63/611,928 ~32:19/12/2023

2025/09461 ~ Complete ~54:ENGINEERED TET ENZYMES AND USE IN EPIGENETICS AND NEXT
GENERATION SEQUENCING (NGS), SUCH AS TET-ASSISTED PYRIDINE BORANE SEQUENCING (TAPS)
~71:EXACT SCIENCES INNOVATION LTD., The Sherard Bldg., Edmund Halley Rd., Littlemore, Oxford
Oxfordshire, QX4 4DG, United Kingdom ~72: ALEJANDRA FERNANDEZ-CID;JOHN HINKS;MARCELLO
TORTORICI;NICOLA A BURGESS-BROWN;ROSA D'AGOSTINO~ 33:US ~31:63/498,874 ~32:28/04/2023

2025/09427 ~ Provisional ~54:SYSTEM AND METHOD FOR VERIFIABLE WAGE-RECOMMENDATION
ARTIFACTS, GOVERNANCE PROOFS, AND PROCUREMENT VERIFIER INTERFACES ~71:Kabelo Diale, 7
Comet Street, South Africa ~72: Kabelo Diale~

2025/09431 ~ Complete ~54:BONE OSTEOARTHRITIS CONDITION INTELLIGENT ANALYSIS METHOD
BASED ON ULTRASONIC IMAGES ~71:AFFILIATED HOSPITAL OF ZUNYI MEDICAL UNIVERSITY, No. 149,
Dalian Road, Huichuan District, Zunyi City, Guizhou Province, People's Republic of China ~72: Anmao Li;Xiaoli
Pan;Yu Wang;Zuo Wang~ 33:CN ~31:2025115281487 ~32:24/10/2025

2025/09432 ~ Complete ~54:AN INTELLIGENT GRAPE PLANTING ENVIRONMENT MONITORING SYSTEM
~71:Henan Institute of Science and Technology, No. 90, East Hualan Avenue, Hongqi District, Xinxiang City,
Henan Province, 453003, People's Republic of China ~72: Beibei LI;Guirong LI;Ling WANG;Peng LI;Ruijin
ZHOU;Ruxin GAI;Yihai LU~

2025/09437 ~ Complete ~54:ECOLOGICAL RESTORATION METHOD SUITABLE FOR WIND POWER PLANT
SIDE SLOPE ~71:Liaoning University, No. 66 Chongshan Middle Road, Huanggu District, Shenyang City,
Liaoning Province, 110801, People's Republic of China ~72: DU, Hua;HE, Zhe;JI, Yuxuan;MAO, Weiwei;SU,
Pinjie;ZUO, Shiwen~

2025/09443 ~ Complete ~54:FEED-GRADE ORGANIC FERTILIZER BASED ON BIOLOGICAL FERMENTATION
PROCESS AND PREPARATION METHOD THEREOF ~71:HEILONGJIANG HONGRUN ECOLOGICAL
TECHNOLOGY CO., LTD., Muling Economic Development Zone, Muling City, Mudanjiang City, People's Republic

of China;NORTHEAST AGRICULTURAL UNIVERSITY, No.600 Changjiang Road, Xiangfang District, Harbin City, People's Republic of China ~72: BI, Lige;FENG, Yanzhong;HE, Fumeng;LI, Fenglan;SHAN, Wenwang;WANG, Xue;WU, Changbo;ZHANG, Liguo~

2025/09456 ~ Complete ~54:ANTIBODY VARIABLE DOMAINS AND ANTIBODIES HAVING DECREASED IMMUNOGENICITY ~71:NUMAB THERAPEUTICS AG, Bachtobelstrasse 5, Switzerland ~72: JOHANSSON, Maria;WARMUTH, Stefan~ 33:EP ~31:23174324.6 ~32:19/05/2023

2025/09462 ~ Complete ~54:LID FOR ASSAY AND MICROTITER PLATES ~71:MESO SCALE TECHNOLOGIES, LLC., 1601 Research Boulevard, Rockville, Maryland, 20850, United States of America ~72: GARY KRIVROY;MANISH KOCHAR;ROBERT CAUSEY;SLAVI MIRTICHEV~ 33:US ~31:63/502,991 ~32:18/05/2023

2025/09430 ~ Complete ~54:METHOD AND SYSTEM FOR MONITORING POSITION OF CONTINUOUS ROLLING MILL HYDRAULIC CYLINDER BASED ON WIRELESS SENSOR NETWORK ~71:TANGSHAN UNIVERSITY, No. 11 University West Road, Hi-tech Zone, Tangshan, Hebei Province, People's Republic of China;Tangshan Pufa Electronics Co., Ltd., South of 1 km west of North Interchange, High-tech Development Zone, Tangshan City, Hebei Province, People's Republic of China ~72: WANG Jianlong~

2025/09489 ~ Complete ~54:NOVEL COMPOUNDS AS CYP11A1 INHIBITORS AND METHODS OF USE THEREOF ~71:FOSHAN IONOVA BIOTHERAPEUTICS CO., INC., Suite 403-1, Building C, Foshan Hi-Tech Park, 70 Guxin Road, People's Republic of China;GUANGDONG TOUCHSTONE TRANSLATIONAL RESEARCH INSTITUTE CO., LTD., Floor 7, Building C, Foshan Hi-Tech Park, 70 Guxin Road, People's Republic of China;SHENZHEN IONOVA LIFE SCIENCE CO., LTD., Floor 16, Building 10, Shenzhen Biomedical Innovation Park, 14 Jinghui Road, People's Republic of China ~72: BAI, Chang;LIN, Lishan;SU, Jing;SUN, Yongkui;XIA, Zilei;YAN, Yinfu~ 33:WO ~31:PCT/CN2023/093491 ~32:11/05/2023;33:US ~31:63/504,611 ~32:26/05/2023;33:WO ~31:PCT/CN2023/119980 ~32:20/09/2023;33:US ~31:63/594,170 ~32:30/10/2023;33:US ~31:63/616,921 ~32:02/01/2024;33:WO ~31:PCT/CN2024/070542 ~32:04/01/2024

2025/09426 ~ Provisional ~54:REJCORP EMPOWERMENT GRID INTERGRATION ~71:MXOLISI, 32 KAPPERTJIE STREET, South Africa ~72: MXOLISI MAZIBU~

2025/09441 ~ Complete ~54:RAS INHIBITORS ~71:REVOLUTION MEDICINES, INC., 700 Saginaw Drive, Redwood City, California, 94063, United States of America ~72: ADRIAN L GILL;ANDREAS BUCKL;ELENA S KOLTUN;G. LESLIE BURNETT;JAMES AGGEN;JAMES CREGG;JENNIFER PITZEN;JOHN E KNOX;YANG LIU~ 33:US ~31:62/930,355 ~32:04/11/2019;33:US ~31:62/951,652 ~32:20/12/2019;33:US ~31:63/000,357 ~32:26/03/2020;33:US ~31:63/011,636 ~32:17/04/2020;33:US ~31:63/043,588 ~32:24/06/2020

2025/09446 ~ Complete ~54:SYSTEM AND PROCESS FOR PREPARING CYCLOHEXANOL BY HYDRATION OF CYCLOHEXENE ~71:Yankuang Lunan Chemicals Co., Ltd., Mushi Town, Tengzhou City (Lunan High Tech Chemical Park), Zaozhuang, People's Republic of China ~72: Chuan HUANG;Desheng WANG;Feng QIU;Hongling XIAO;Houzhi ZHANG;Jing CHEN;Li ZHAO;Ligang KAN;Lili FANG;Qi SHEN;Shujie SUN;Wenxue LU;Yiwu LU;Yong GUO;Zhao ZHANG;Zhendong MIAO;Zhiyuan LI~ 33:CN ~31:202510144767X ~32:10/02/2025

2025/09448 ~ Complete ~54:METHOD, COMPUTER-READABLE MEDIA, CONTROL DEVICE AND FINANCE APPLICATION TERMINAL ~71:Diebold Nixdorf Systems GmbH, Heinz-Nixdorf-Ring 1, PADERBORN 33106, GERMANY, Germany ~72: BEINE, Christian~ 33:DE ~31:10 2023 112 169.3 ~32:09/05/2023

2025/09451 ~ Complete ~54:STEAP2 DIRECTED T-CELL ENGAGERS AND COMPOSITIONS THEREOF ~71:MedImmune, LLC, One MedImmune Way, GAITHERSBURG 20878, MD, USA, United States of America

~72: BRITTON, Zachary;BURROWS, Natalie;CEMERSKI, Saso;CHEUNG, Sao Fong;DOVEDI, Simon;HAN, Jeong Min;HUHN, Oisin;IOANNOU, Nikolaos;MAZOR, Yariv;SITNIKOVA, Suzanne;VAN DYK, Dewald;WALSENG, Even;YANG, Chunning~ 33:US ~31:63/495,547 ~32:11/04/2023

2025/09478 ~ Complete ~54:METHOD FOR ENHANCING SLUDGE CARBON SOURCE CONVERSION BY STRENGTHENING SULFATE-REDUCING BACTERIA BASED ON INTERSPECIES HYDROGEN TRANSFER ~71:TAIYUAN UNIVERSITY OF TECHNOLOGY, No. 79, Yingzexi Street, Taiyuan City, People's Republic of China ~72: LIU, Zhihong;MEI, Jun;TAN, Huijie;YUE, Xiuping;ZHOU, Aijuan~

2025/09449 ~ Complete ~54:AN ANTENNA ~71:Leonardo UK LTD, 1 Eagle Place, St. James's, London SW1Y 6AF, UNITED KINGDOM, United Kingdom ~72: SCANNELL, Brian~ 33:GB ~31:2306868.7 ~32:10/05/2023

2025/09453 ~ Complete ~54:THINNING ELEMENTS OR SCOURGES FOR THINNING MACHINES AND RELATED THINNING MACHINE ~71:B.M.V. S.R.L., STRADA FORCELLINI, 5, ALBA 12051, CN, ITALY, Italy ~72: BORIO, Stefano~ 33:IT ~31:102023000009243 ~32:09/05/2023

2025/09454 ~ Complete ~54:NOVEL INSECTICIDAL MIXTURES FOR CONTROLLING AND PROTECTING CROPS ~71:Adama Makhteshim Ltd., P.O. Box 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: FAURE MLYNSKI, Mariela;HORSFIELD, Andrew;REZNIK, Nimrod;WALDMAN, Lior~ 33:US ~31:63/464,640 ~32:08/05/2023

2025/09457 ~ Complete ~54:CYCLOPENTYLPYRAZOLAMINE DERIVATIVE AND USE THEREOF ~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., No. 369 Yuzhou South Rd., Lianyungang, Jiangsu, 222062, People's Republic of China ~72: BIN CAO;DAMIN ZHAO;JINAN WANG;LU FAN;YANPENG JI;YINSHENG ZHANG;YONG GAO~ 33:CN ~31:202310411874.5 ~32:17/04/2023;33:CN ~31:202310815737.8 ~32:04/07/2023;33:CN ~31:202311288133.9 ~32:28/09/2023;33:CN ~31:202410431164.3 ~32:10/04/2024;33:CN ~31:202410445541.9 ~32:13/04/2024

2025/09463 ~ Complete ~54:DEMULSIFYING METHOD ~71:INNOSPEC LIMITED, Innospec Manufacturing Park Oil Sites Road, Ellesmere Port, Cheshire, CH65 4EY, United Kingdom ~72: ELISE GUIMARD;HUBERT JUNGBLUTH;ROMAIN DESNOS~ 33:GB ~31:2306540.2 ~32:03/05/2023

2025/09878 ~ Provisional ~54:INTEGRATED LEADERSHIP EFFECTIVENESS FRAMEWORK - ILEF ~71:Millicent Lindiwe Ndaba, 21 Oosterlig Street, South Africa ~72: Millicent Lindiwe Ndaba~ 33:ZA ~31:2025/07 ~32:01/09/2025

2025/09428 ~ Provisional ~54:METHOD AND SYSTEM FOR PROCUREMENT OF A PRODUCT OR SERVICE ~71:J HOLDINGS (PTY) LTD., 518 Alsatian drive, 18 La Bri, Garsfontein, Extension 18, South Africa ~72: CRAFFORD, Anita Laurenza;KYRIACOU, Paul;SMOOK, Adolphus Josephus~ 33:ZA ~31:2025/08742 ~32:17/10/2025

2025/09429 ~ Complete ~54:METHOD FOR CONSTRUCTING DIGITAL COMPETENCY MODEL ~71:Jinhua University of Vocational Technology, No. 888 Haitang West Road, Wucheng District, Jinhua City, Zhejiang Province, 321016, People's Republic of China ~72: XU, Qiaoyun~

2025/09433 ~ Complete ~54:POLLUTION PROOF BACTERIAL CULTIVATION DEVICE FOR MICROBIAL EXPERIMENTS ~71:THE FIRST AFFILIATED HOSPITAL OF ZHENGZHOU UNIVERSITY, NO. 1 JIANSHE EAST ROAD, ERQI DISTRICT, ZHENGZHOU CITY, People's Republic of China ~72: MA, Jilei~

2025/09434 ~ Complete ~54:SUBUNIT VACCINE OF TUBERCULOSIS AND ITS PREPARATION METHOD AND APPLICATION ~71:THE FIRST AFFILIATED HOSPITAL OF ZHENGZHOU UNIVERSITY, NO. 1 JIANSHE EAST ROAD, ERQI DISTRICT, ZHENGZHOU CITY, People's Republic of China ~72: MA, Jilei~

2025/09435 ~ Complete ~54:SUBUNIT VACCINE OF TUBERCULOSIS AND ITS PREPARATION METHOD AND APPLICATION ~71:THE FIRST AFFILIATED HOSPITAL OF ZHENGZHOU UNIVERSITY, NO. 1 JIANSHE EAST ROAD, ERQI DISTRICT, ZHENGZHOU CITY, People's Republic of China ~72: MA, Jilei~

2025/09439 ~ Complete ~54:USE OF WHEAT WRKY TRANSCRIPTION FACTOR GENE TAWRKY1 ~71:Northwest A And F University Shenzhen Research Institute, B406, Virtual University Park, R4 Bldg, No.19 Gaoxin South 4th Road, Yuehai Street, Nanshan District, Shenzhen, Guangdong, 518000, People's Republic of China ~72: KANG, Zhensheng;LI, Qiongqiong;TANG, Chunlei;WANG, Jianfeng;WANG, Ning;WANG, Xiaojie~ 33:CN ~31:202510207360.7 ~32:25/02/2025

2025/09440 ~ Complete ~54:COOLING AND DEHUMIDIFYING AIR-CONDITIONING GARMENT ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LongXiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: FU Haoka;ZHAO Lixia~

2025/09442 ~ Complete ~54:METHOD FOR PREPARING SUBSTRATE SOIL USING AGRICULTURAL WASTE ~71:HULIN XINGQUAN NEW ENERGY BIOTECHNOLOGY CO., LTD., Industrial Park, Hulin City, People's Republic of China;NORTHEAST AGRICULTURAL UNIVERSITY, No. 600 Changjiang Road, People's Republic of China ~72: CHEN, Yiqing;FENG, Yanzhong;HE, Fumeng;LI, Fenglan;SONG, Minglin;WANG, Xue;WANG, Yuchun;ZHAO, Dan~

2025/09444 ~ Complete ~54:PENDULUM IMPACT TEST MACHINE FOR IMPACT ANALYSIS OF STRUCTURAL ELEMENTS ~71:Dr. Arvind Kumar Agnihotri, Professor, Civil Engineering Department, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, 144008, India;Dr. B. R. Ambedkar National Institute of Technology, G.T. Road, Amritsar Bypass, Jalandhar, Punjab, Pin:144008, India;Dr. Hemant Sharad Chore, Associate Professor, Civil Engineering Department, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, 144008, India;Dr. Senthil Kasilingam, Assistant Professor, Civil Engineering Department, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, 144008, India;Priyansh Gupta, Undergraduate Student, Civil Engineering Department, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, 144008, India ~72: Dr. Arvind Kumar Agnihotri;Dr. Hemant Sharad Chore;Dr. Senthil Kasilingam;Priyansh Gupta~

2025/09445 ~ Complete ~54:APELIN RECEPTOR AGONISTS AND USES THEREOF ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda-Tsukasamachi, Japan ~72: VINUE-SANTOLALLA, Laura;VISWANATHAN, Karthik;YACHNIN, Brahm~ 33:US ~31:63/495,388 ~32:11/04/2023;33:US ~31:63/585,027 ~32:25/09/2023

2025/09447 ~ Complete ~54:DECANOIC ACID AND ITS COMPOSITIONS FOR USE IN THE PREVENTION AND/OR TREATMENT OF PEROXISOMAL DISORDERS. ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland;UCL Business Ltd, The Network Building, 97 Tottenham Court Road, LONDON W1T 4TP, UNITED KINGDOM, United Kingdom ~72: BALDWIN, Tomas;EATON, Simon;HEALES, Simon~ 33:EP ~31:23167980.4 ~32:14/04/2023

2025/09450 ~ Complete ~54:STEAP2 ANTIBODY DRUG CONJUGATES AND USES THEREOF ~71:MedImmune, LLC, One MedImmune Way, GAITHERSBURG 20878, MD, USA, United States of America ~72: BARTOLO, Nicole Danielle;CHEUNG, Sao Fong;COMER, Frank;EHUDIN, Melanie;HAN, Jeong Min;KHAN, Akbar Husain;LEE, Maximillian Taro William;MADERNA, Andreas Lothar Severino;MONLISH, Darlene;MOORE,

Eric James;MUNIZ-MEDINA, Vanessa;PUTHENVEETIL, Sujiet;VAN DYK, Dewald;WORREDE, Asurayya~
33:US ~31:63/495,545 ~32:11/04/2023

2025/09452 ~ Complete ~54:OPTIMIZED CD3 ANTIGEN BINDING DOMAINS ~71:MedImmune, LLC, One
MedImmune Way, GAITHERSBURG 20878, MD, USA, United States of America ~72: BRITTON, Zachary;LI,
Xiuling;MAZOR, Yariv;PAYNE, Sterling;WALSENG, Even;YANG, Chunning~ 33:US ~31:63/495,127
~32:10/04/2023

2025/09455 ~ Complete ~54:ANTI-S100A8/A9 ANTIBODY AND USE THEREOF ~71:BEIJING SUNGEN
BIOMEDICAL TECHNOLOGY CO., LTD., 55 Qingfeng West Road, Tiangongyuan Street, People's Republic of
China ~72: DU, Jie;GAO, Shijuan;LI, Guoqi;LI, Yulin;LIN, Changqing;LIU, Si;LIU, Yan;SHAO, Yihui;SUN,
Zhiwei;ZHAO, Guangzhen;ZHOU, Jianhua~ 33:CN ~31:202410175455.0 ~32:07/02/2024

2025/09458 ~ Complete ~54:BISPECIFIC ANTIBODY TARGETING G PROTEIN-COUPLED RECEPTOR
~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., No. 369 Yuzhou South Rd., Lianyungang,
Jiangsu, 222062, People's Republic of China ~72: BING ZHANG;MIAOMIAO LU;MIN DU;YAMIN LU;ZHENZHEN
LU~ 33:CN ~31:202310484445.0 ~32:28/04/2023

2025/09479 ~ Complete ~54:ROYAL JELLY FORMULATION, BEE PRODUCT FORMULATION, AND
PREPARATION METHOD THEREOF ~71:SUN CHUNMIN, No. 6 East of Dongmen, Zhongchang Village,
Zhongchang Street, Jinzhou District, Dalian City, People's Republic of China ~72: Chunmin SUN;Jicheng SUN;Lin
SUN~

2025/09436 ~ Complete ~54:APPARATUS FOR PREPARING IRON-COPPER BIMETALLIC OXIDE
FACILITATING LIQUID MEDICINE FEEDING ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION,
LongXiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China
~72: HU Xiaoxian;LEI Miao;LI Ziang;LI Xinyu;LIU Rule;YUE Mingfei~

2025/09438 ~ Complete ~54:A PROSPECTING AND EXPLORATION METHOD FOR SKARN TYPE
POLYMETALLIC DEPOSITS BASED ON 3D MODELING ~71:Kunming University of Science and Technology,
No. 68 Wenchang Road, Yieryi Street, Wuhua District, Kunming City, Yunnan Province, 650093, People's
Republic of China ~72: Aibing Chen;Fuju Jia;Guangshu Yang;Lisheng Gao;Xiaofei Xu;Xiaojun Zheng;Xueyi
Tang;Yongfeng Yan~ 33:CN ~31:202411687171.6 ~32:22/11/2024

2025/09460 ~ Complete ~54:WET FOOD COMPOSITIONS SUITABLE FOR INTESTINAL DISORDER
~71:MARS, INCORPORATED, 6885 Elm Street, Mclean, Virginia, 22101, United States of America ~72: HELENE
CHARLES;KARINE BRECIN;SALLY PEREA~ 33:EP ~31:23171116.9 ~32:02/05/2023

2025/09464 ~ Complete ~54:CDK2 INHIBITORS ~71:BLUEPRINT MEDICINES CORPORATION, 45 Sidney
Street, Cambridge, Massachusetts, 02139, United States of America ~72: CHENG FANG;EMANUELE
PEROLA;JOSEPH L KIM;JR. NEIL BIFULCO;NATASJA BROOIJMANS;PHILIP D RAMSDEN;RICHARD
VARGAS;STEVEN MARK WENGLOWSKY~ 33:US ~31:63/496,146 ~32:14/04/2023;33:US ~31:63/591,862
~32:20/10/2023;33:US ~31:63/564,604 ~32:13/03/2024

2025/09465 ~ Complete ~54:A HEATING PANEL ~71:BASF SE, Carl-Bosch-Strasse 38, 67056, Ludwigshafen
am Rhein, Germany;LINDE GMBH, Dr. -Carl-von-Linde-Str. 6-14, 82049, Pullach, Germany;SABIC GLOBAL
TECHNOLOGIES B.V., Plasticlaan 1, 4612 PX, Bergen op Zoom, Netherlands ~72: ANDREA
HAUNERT;GRIGORIOS KOLIOS;HEINRICH LAIB;MATTHIAS MARTIN SENTKO;WALTER E.C PRITZKOW~
33:EP ~31:23178475.2 ~32:09/06/2023

2025/09477 ~ Complete ~54:PRIMER-PROBE COMBINATION, KIT AND DETECTION METHOD FOR MONITORING CHINHAI SPINY NEWT BASED ON MIRA AND EDNA ~71:CHINA JILIANG UNIVERSITY, No. 258, Xueyuan Street, Qiantang District, Hangzhou City, People's Republic of China;SHAOXING GEOLOGICAL ENVIRONMENT GREENING WORKSTATION, No. 99, Jiefang Avenue, Shaoxing City, People's Republic of China ~72: DING, Si Ling;GUAN, Feng;JIN, Haixia;SONG, Xiao;XU, Aichun;ZHAO, Shanshan~ 33:CN ~31:2025107677393 ~32:10/06/2025

- APPLIED ON 2025/11/10 -

2025/09513 ~ Complete ~54:THERMAL ENERGY STORAGE ~71:MAGALDI POWER S.P.A., Piazza Capranica 95, 00186, Roma RM, Italy ~72: MARIO MAGALDI;ROCCO SORRENTI~ 33:IT ~31:102023000009972 ~32:17/05/2023

2025/09514 ~ Complete ~54:BENZO-FUSED RING COMPOUND INHIBITOR, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., Economic and Technological Development Zone, Lianyungang, Jiangsu, 222069, People's Republic of China;SHANGHAI HANSOH BIOMEDICAL CO., LTD., Building 11, No. 3728 Jinke Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai, 201203, People's Republic of China ~72: JUN WANG;WENSHENG YU;XIAOFENG MAO;XIAOHAN ZHOU;YIDONG SU~ 33:CN ~31:202310384096.5 ~32:11/04/2023;33:CN ~31:202310611392.4 ~32:26/05/2023;33:CN ~31:202310907026.3 ~32:21/07/2023;33:CN ~31:202311086944.0 ~32:25/08/2023;33:CN ~31:202311645650.7 ~32:01/12/2023

2025/09518 ~ Provisional ~54:LIGHTWEIGHT,ADDITIVE MANUFACTURED MUZZLE BRAKE ~71:PHILIPPUS ERASMUS BISSCHOFF, 12 WALKER STR, South Africa ~72: PHILIPPUS ERASMUS BISSCHOFF~

2025/09502 ~ Complete ~54:METHOD AND SYSTEM FOR CONTROLLING INTERCONNECTED DEVICES OPERATING IN AN UNTRUSTED ENVIRONMENT ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: HARDMAN , Daniel~ 33:EP ~31:23167325.2 ~32:11/04/2023

2025/09508 ~ Complete ~54:CARBONATION MACHINE WITH FROTH CONTROL AND METHOD THEREOF ~71:SODASTREAM INDUSTRIES LTD., 1 Atir Yeda Street, Kfar Saba, 4464301, Israel ~72: AVI COHEN;DALIT BAHAR;DVIR BRAND;GAL SHNER;IGOR KUROVETS;OREN DAVID SHALEV~ 33:US ~31:18/142,592 ~32:03/05/2023

2025/09517 ~ Complete ~54:IMPROVEMENT OF PLANT PART QUALITY ~71:VALENT BIOSCIENCES LLC, 1910 Innovation Way, Suite 100, United States of America ~72: ALVARADO CHAVEZ, Veria Ysabel;McARTNEY, Steve;PETRACEK, Peter D.;ZHANG, Hanwei~ 33:US ~31:63/502,182 ~32:15/05/2023

2025/09506 ~ Complete ~54:COMPOUNDS FOR UPREGULATING UTROPHIN LEVELS IN MUSCLE CELLS AND METHOD OF APPLICATION THEREOF ~71:PEPTRIS TECHNOLOGIES PRIVATE LIMITED, Sree Ganesh, 2473, E Block, 13th Main, Sahakara Nagar, India ~72: BUDNI, Anand;NARAYANAN, Shridhar;NARAYANAN, Venkatasubramanian~ 33:IN ~31:202341026707 ~32:11/04/2023

2025/09503 ~ Complete ~54:WINE DEHAZING METHODS AND COMPOSITIONS ~71:Digestiva, Inc., 2700 Stockton Boulevard, SACRAMENTO 95817, CA, USA, United States of America;VinZymes, Inc., 3303 Biscayne Bay Place, DAVIS 965616, CA, USA, United States of America ~72: CUI, Youtian;KENNEDY, James Austin;MAK, Wai Shun~ 33:US ~31:63/501,481 ~32:11/05/2023

2025/09507 ~ Complete ~54:PLANTER AND METHOD OF PLANTING ~71:NOVELQUIP FORESTRY (PTY) LTD, Blazecor Unit 8, Settler Street, Pacaltsdorp Industria, George, 6529, South Africa ~72: BAUERMEISTER,

Daniel Jacobus;OPPENHEIMER, Greig;STEENKAMP, Helgaard Petrus~ 33:ZA ~31:2023/06543
~32:26/06/2023

2025/09516 ~ Complete ~54:IMPROVEMENT OF STONE FRUIT QUALITY ~71:VALENT BIOSCIENCES LLC,
1910 Innovation Way, Suite 100, United States of America ~72: ALVARADO CHAVEZ, Veria
Ysabel;MCARTNEY, Steve;PETRACEK, Peter D.;ZHANG, Hanwei~ 33:US ~31:63/502,179 ~32:15/05/2023

2025/09519 ~ Provisional ~54:INSTANT TARO PORRIDGE AND PREPARATION METHOD THEREOF
~71:Lethiwe Mbuyane, 917 Mandarin Road, South Africa ~72: Lethiwe Lynett Mbuyane~

2025/09467 ~ Provisional ~54:LARGE WAX AND OIL PIGMENT STICK FOR ARTISTIC USE ~71:yedidya
falkson, 109 club street linksfield, South Africa ~72: yedidya falkson~

2025/09469 ~ Provisional ~54:AUTOMATIC PROGRAMABLE LIQUID DISPENSING MACHINE(APLD)
~71:Schamone Xzias Africa, 22842 Tropical Pine Street, South Africa ~72: Schamone Xzias Africa~
33:ZA ~31:AEXUBB ~32:06/11/2025

2025/09474 ~ Provisional ~54:TWO-PASTE ~71:Markus van Wyk, 1 Golfview,Wenning street, , SW5 ,
Vanderbijlpark, South Africa ~72: Markus van Wyk~

2025/09491 ~ Complete ~54:TARGETED PYRROLOBENZODIAZAPINE CONJUGATES ~71:BEONE
MEDICINES I GMBH, Aeschengraben 27, Switzerland ~72: HE, Maomao;LI, Lingyan;TSAI, Chang-Sheng;TSAI,
Mei-Hsuan;WANG, Zewei;YANG, Xiaokun~ 33:CN ~31:PCT/CN2023/088051 ~32:13/04/2023

2025/09501 ~ Complete ~54:METHOD FOR SEXING BIRDS, BIRDS, PRODUCTION METHOD, EGG
POPULATION, AND SEXING DEVICE ~71:SetsuroTech Inc., Fujii Memorial Institute of Medical Sciences, 3-18-
15, Kuramoto-cho, TOKUSHIMA 7708503, TOKUSHIMA-SHI, JAPAN, Japan ~72: CHEN, Yi-Chen;SHIMOKITA,
Eisuke;TAKEMOTO, Tatsuya~ 33:JP ~31:2023-078539 ~32:11/05/2023

2025/09472 ~ Provisional ~54:SURGICAL FLUIDICS SYSTEM STERILITY ~71:ENVISION AFRICA (PTY) LTD,
229 Sidney Road, Nest Park, South Africa ~72: WRIGHT, James;WRIGHT, William James~

2025/09475 ~ Provisional ~54:MAGNETIC AND PRESSURE SENSING JOYSTICK/THUMB STICK ~71:AZOTEQ
HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick
Johannes;BRUWER, Frederick Johannes Jnr;WOLMARANS, Wikus~

2025/09486 ~ Complete ~54:A METHOD FOR REDUCING SULFUR DIOXIDE IN THE WINEMAKING
PROCESS ~71:SHANDONG ACADEMY OF GRAPE, No. 1-27, Shanda South Road, Licheng District, Jinan City,
People's Republic of China ~72: GAO, Deyan;GUO, Yayun;HE, Yi;LI, Xiaoqi;SHI, Hongmei;SUN, Xiaohui;WANG,
Zhe~

2025/09492 ~ Complete ~54:HETEROCYCLIC COMPOUNDS AND THEIR USE IN THE TREATMENT OF
MYCOBACTERIAL INFECTIONS ~71:GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT
LIMITED, GSK Medicines Research Centre, Gunnels Wood Road, United Kingdom;UNIVERSITY OF DUNDEE,
No. 11 Perth Road, Dundee, United Kingdom ~72: BATES, Robert;CLEGHORN, Laura;DAVIS, Susan;GREEN,
Kirsteen;GREEN, Simon;HARRISON, Justin;JIMENEZ NAVARRO, Elena;KOOVITS, Paul;WYATT, Paul~
33:EP ~31:23179123.7 ~32:14/06/2023

2025/09495 ~ Complete ~54:AUTOMOTIVE CANOPY DOOR ~71:RSI NORTH AMERICA, INC., 1501 Joel East
Road, United States of America ~72: DREYER, Marius~ 33:US ~31:18/134,946 ~32:14/04/2023

2025/09512 ~ Complete ~54:FUSED RING KRAS INHIBITORS FOR TREATING DISEASE ~71:BLOSSOMHILL THERAPEUTICS, INC., 10255 Science Center Drive, Suite 200, San Diego, California, 92121, United States of America ~72: EUGENE YUANJIN RUI;EVAN W ROGERS;JINGRONG JEAN CUI~ 33:US ~31:63/502,046 ~32:12/05/2023;33:US ~31:63/469,292 ~32:26/05/2023

2025/09468 ~ Provisional ~54:INTERACTIVE SMART STARRY SKY PROJECTOR WITH SENSOR-BASED ENVIRONMENTAL AWARENESS AND GESTURE/VOICE CONTROL ~71:Ahmed Waseef Saib, 24 Park Avenue, Desainagar, South Africa ~72: Ahmed Waseef Saib~

2025/09483 ~ Complete ~54:GLUCOMANNAN-TYPE PAPER STRENGTHENING AGENT AND PREPARATION METHOD AND APPLICATION THEREOF ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LongXiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: NIU Zhehui;WANG Shuai;ZHAO Xingtiao~

2025/09500 ~ Complete ~54:IMPROVED ADJUSTABLE COMPACT LIFTING COUPLER AND METHOD OF USE ~71:M3S IP PTY LTD, Lot 5 550A Alderley Street Toowoomba, Australia ~72: PROWSE, Steven~ 33:AU ~31:2023901213 ~32:24/04/2023

2025/09504 ~ Complete ~54:OPHTHALMIC COMPOSITION FOR TREATING NON-INFECTIOUS INFLAMMATORY DISEASES ~71:VivaVision Biotech Ltd., 4020, Building B, Gene Medicine Valley, Ouhai, WENZHOU 325088, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: GAO, Hongyan;HAN, Qiao;LI, Yong;SHEN, Wang;XIA, Erning~ 33:CN ~31:202310484101.X ~32:28/04/2023

2025/09470 ~ Provisional ~54:AUTONOMOUS DRONE IMAGING SYSTEM WITH WIRELESS CONNECTIVITY FOR AI-ASSISTED HOME OR OFFICE PRINTING ~71:Ahmed Waseef Saib, 24 Park Avenue , Desainager, South Africa ~72: Ahmed Waseef Saib~

2025/09481 ~ Complete ~54:AN INHALABLE FORMULATION OF FLUTICASONE PROPIONATE AND ALBUTEROL SULFATE ~71:NORTON (WATERFORD) LIMITED, Unit 301, IDA Industrial Park, Cork Road, Ireland ~72: BLAIR, Julian, Alexander;EDLIN, Chris, David;MCKEON, Shane, Michael;O'NEILL, Brian, Paul;SHAH, Hardik, Kirtikumar~ 33:GB ~31:2012742.9 ~32:14/08/2020

2025/09484 ~ Complete ~54:MOVABLE DEVICE AND METHOD FOR MEASURING BODY SIZE TRAITS OF BREEDING RAMS ~71:INSTITUTE OF ANIMAL SCIENCE OF THE CHINESE ACADEMY OF AGRICULTURAL SCIENCES, No. 2 Yuanmingyuan West Road, People's Republic of China ~72: DU, Lixin;LU, Jian;QUAN, Kai;WANG, Huihua;WEI, Caihong~ 33:CN ~31:202411609759X ~32:12/11/2024

2025/09485 ~ Complete ~54:DOMESTICATION METHOD OF WILD LEUCOPAXILLUS GIGANTEUS ~71:SHANXI ACADEMY OF FUNCTIONAL FOOD, SHANXI AGRICULTURAL UNIVERSITY, No.79 Longcheng Street, Taiyuan City, People's Republic of China ~72: Jianquan REN;Lina XU;Shang GUO;Xiaofei GUO;Xin LIU;Yanting LI~

2025/09488 ~ Complete ~54:REVERSE OTP SERVICE ~71:DE SWART, Alexandra, Kees Broekmanstraat 118, Netherlands ~72: DE SWART, Alexandra~

2025/09493 ~ Complete ~54:HYDROFORMYLATION PROCESS ~71:DOW TECHNOLOGY INVESTMENTS LLC, 2211 H.H. Dow Way, United States of America ~72: MILLER, Glenn A.~ 33:US ~31:63/500,021 ~32:04/05/2023

2025/09494 ~ Complete ~54:ENERGY STORAGE SYSTEM DEFLAGRATION AND THERMAL PROPAGATION MITIGATION ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: DAVIS, Gregory J.;HASLER, Gregory S.~ 33:US ~31:18/196,623 ~32:12/05/2023

2025/09497 ~ Complete ~54:USES OF NOVEL SURFACTANT COMPOUNDS ~71:NORTH-WEST UNIVERSITY, 1 Hoffman Street, Joon van Rooy Building, South Africa ~72: JORDAAN, Johannes Hendrik Lodewikus;MARX, Frans Thomas Ignatius;OTTO, Daniel Petrus;SMIT, Frans Johannes;VOSLOO, Hermanus Cornelius Moolman;WIESE, Ettiene Hugo~ 33:ZA ~31:2023/05669 ~32:26/05/2023;33:ZA ~31:2024/01655 ~32:27/02/2024

2025/09510 ~ Complete ~54:MIVELSIRAN 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: BRET LEE BOSTWICK;JULIA SHIRVAN;NUNE MAKAROVA~ 33:US ~31:63/498,250 ~32:25/04/2023;33:US ~31:63/500,223 ~32:04/05/2023;33:US ~31:63/513,802 ~32:14/07/2023;33:US ~31:63/592,809 ~32:24/10/2023;33:US ~31:63/625,229 ~32:25/01/2024

2025/09471 ~ Provisional ~54:PHARMCRUSH ~71:Isaac Addai, 117 Kemp Street, South Africa ~72: Isaac Addai~ 33:ZA ~31:N/A ~32:07/11/2025

2025/09496 ~ Complete ~54:LONG-LIFE ASPHALT MIXTURE BASED ON ADDED BASALT FIBERS, AND PREPARATION METHOD AND USE THEREOF ~71:HENAN COLLEGE OF TRANSPORTATION, 165 Hang Hai Middle Road, Erqi District, Zhengzhou, Henan, 450000, People's Republic of China;HENAN JIAOYUAN ENGINEERING TECHNOLOGY GROUP CO., LTD, 165 Hang Hai Middle Road, Erqi District, Zhengzhou, Henan, 450000, People's Republic of China ~72: HAO, Peiwen;LI, Wenkai;SHAO, Jinggan;WANG, Jingbo;WANG, Junchao;WU, Zhishen~ 33:CN ~31:202510762552.4 ~32:09/06/2025

2025/09466 ~ Provisional ~54:SYSTEM AND METHOD FOR LIVING-WAGE-INDEXED INSURANCE (LWI-I) ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: KABELO DIALE~

2025/09473 ~ Provisional ~54:GEAR-DRIVEN DRILL HEAD WITH ROTARY UNION ~71:DERICK TSWALEDI NGOBENI, HOLDING 66 ROAD NO 5, ELOFF, South Africa ~72: DERICK TSWALEDI NGOBENI~

2025/09476 ~ Provisional ~54:DETACHABLE SPARE WHEEL CARRIER ~71:ANDRE STEENBERG, 260 OLYRA STREET, WILDESERING UNIT 26, DOORNPOORT, South Africa ~72: ANDRE STEENBERG~

2025/09480 ~ Complete ~54:WIRE POLE STATE MONITORING FRAMEWORK FOR THREE-DIMENSIONAL POINT CLOUD SPATIAL MEASUREMENT POWER GRID LINE CONSTRUCTION ~71:Taiyuan University of Science and Technology, No.66, Waliu Road, Wanbailin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: YANG Yakun~ 33:CN ~31:2025105891354 ~32:08/05/2025

2025/09482 ~ Complete ~54:ADAPTIVE TEMPERATURE-CONTROL HIGH WEATHER-RESISTANT FRP WATER STORAGE TANK ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LongXiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: BIAN Xingbang;LIU Sheng;LOU Quan;TIAN Haomin;ZHANG Xuanxuan~

2025/09487 ~ Complete ~54:RAZOR WIRE ~71:COCHRANE INDUSTRIES UK LIMITED, 132 Hartlebury Trading Estate, Hartlebury, United Kingdom ~72: BUCARIZZA, Vlado~ 33:ZA ~31:2024/07905 ~32:18/10/2024

2025/09498 ~ Complete ~54:NOVEL SURFACTANT COMPOUNDS ~71:NORTH-WEST UNIVERSITY, 1 Hoffman Street, Joon van Rooy Building, South Africa ~72: MARX, Frans Thomas Ignatius;VENTER,

David;VOSLOO, Hermanus, Cornelius, Moolman;YOUNG, Desmond Austin~ 33:ZA ~31:2023/05668
~32:26/05/2023;33:ZA ~31:2024/01654 ~32:27/11/2024

2025/09511 ~ Complete ~54:PHYSICAL LAYER METHODS TO ENABLE TONE-DISTRIBUTED RESOURCE
UNITS ~71:INTERDIGITAL PATENT HOLDINGS, INC., 200 Bellevue Parkway, Suite 300, Wilmington, Delaware,
19809, United States of America ~72: HANQING LOU;MAHMOUD SAAD;RUI YANG;SAFI SHAMS
MUHTASIMUL HOQUE;ZINAN LIN~ 33:US ~31:63/464,071 ~32:04/05/2023;33:US ~31:63/537,156
~32:07/09/2023;33:US ~31:63/537,673 ~32:11/09/2023;33:US ~31:63/546,304
~32:30/10/2023;33:US ~31:63/608,655 ~32:11/12/2023

2025/09490 ~ Complete ~54:IMMUNOLOGY OF HYDROXY-PYRROLONES ~71:5th Floor, Amritha Towers, MG
Road, KPCC Junction, Kocki 682011, Kerala, India ~72: BALARAM, P.n.;LATTMANN, Dr. Eric;LATTMANN, Dr.
Ponrthip~ 33:IN ~31:202341026438 ~32:10/04/2023

2025/09499 ~ Complete ~54:USES OF NOVEL LUMINESCENT SURFACTANT COMPOUNDS ~71:NORTH-
WEST UNIVERSITY, 1 Hoffman Street, Joon van Rooy Building, South Africa ~72: OTTO, Daniel Petrus;SMIT,
Frans Johannes;VOSLOO, Hermanus Cornelius Moolman;WIESE, Ettiene Hugo~ 33:ZA ~31:2023/05669
~32:26/05/2023;33:ZA ~31:2024/01655 ~32:27/02/2024

2025/09505 ~ Complete ~54:STEAP2-TARGETED COMPOUNDS AND USE THEREOF ~71:AstraZeneca AB,
SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: CAICEDO, David Rodriguez;CHANG, Chien-Ying;CHEUNG,
Sao Fong;COMER, Frank Irvin;HAN, Jeong Min;MAHAMMAD, Saleemulla;MONLISH, Darlene Anne;MUNIZ-
MEDINA, Vanessa Marie;SALLADA, Nathanael David;TURNBULL, William Leslie;VAN DYK, Dewald;WORREDE,
Asurayya~ 33:US ~31:63/495,561 ~32:12/04/2023

2025/09509 ~ Complete ~54:AMIDE COMPOUND, PHARMACEUTICAL COMPOSITION COMPRISING SAME,
AND USE THEREOF ~71:SUZHOU GENHOUSE BIO CO., LTD., Unit 401, Building 8, Zone A, BioBAY Phase III,
No. 1 Xinze Road, Suzhou, Industrial Park, Suzhou Area China (Jiangsu) Pilot Free Trade Zone Suzhou, Jiangsu
215123, People's Republic of China ~72: FARIDOON;GUIPING ZHANG;HAOJIE XU;JIAPENG LI;JIYUE
ZHENG;KUIFENG WANG;TAO ZHANG;XUE DONG~ 33:CN ~31:202310440810.8 ~32:23/04/2023

2025/09515 ~ Complete ~54:DECODING METHOD, ENCODING METHOD, DECODER, AND ENCODER
~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road, Wusha,
Chang'an, Dongguan, Guangdong, 523860, People's Republic of China ~72: LUHANG XU~

- APPLIED ON 2025/11/11 -

2025/09532 ~ Complete ~54:BISPECIFIC ANTIBODY AND APPLICATION THEREOF ~71:REMEGEN
(SHANGHAI) CO., LTD., 3rd Floor, No. 665 Zhangjiang Road, China (Shanghai) Pilot Free Trade Zone, People's
Republic of China;REMEGEN CO., LTD., No. 58 Beijing Middle Road, Yantai Development Zone, Yantai District,
China (Shandong) Pilot Free Trade Zone, People's Republic of China ~72: CHEN, Shanshan;FANG, Jianmin;LI,
Dong;LI, YuanHao;MA, Xinting;WANG, Sisi;XIN, Yinghao;YUAN, Mei;ZHAO, Guorui~
33:CN ~31:202211722833.X ~32:30/12/2022

2025/09551 ~ Complete ~54:A MERN-STACK BASED, AI-POWERED ZERO WASTE GROCERY RETAIL
SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA
NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHOITE, Sonali P;CHAUHAN, Mansi
Sureshsingh;DAWKHAR, Mugdha Sachin;NAYAKWADI, Vishal N;RAJPUT, Siddhika Sanjaysingh;SALUNKHE,
Aditi Vijay~

2025/09562 ~ Complete ~54:CORONAVIRUS SPIKE GLYCOPROTEIN RECEPTOR BINDING DOMAINS AND USES THEREOF ~71:Icosavax, Inc., 1930 Boren Avenue, Suite 1000, SEATTLE 98101, WA, USA, United States of America ~72: DOWLING, Quinton;ELLIS, Daniel~ 33:US ~31:63/465,978 ~32:12/05/2023;33:US ~31:63/598,691 ~32:14/11/2023

2025/09527 ~ Complete ~54:A PLATEAU ECOLOGICAL MONITORING DATA MANAGEMENT AND VISUALIZATION SYSTEM ~71:Xizang Zhongwei Chunhe Technology Co., Ltd, Room311, 3rd Floor, Building 12, International Headquarters City, Liuwu Avenue, Liuwu New Area, Lhasa, Xizang Autonomous Region, 851414, People's Republic of China ~72: Lu Heguang~

2025/09533 ~ Complete ~54:METHOD AND SYSTEM FOR COMPLIANCE REVIEW OF ECONOMIC CONTRACTS BASED ON ARTIFICIAL INTELLIGENCE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: XU Nana~

2025/09546 ~ Complete ~54:AN NLP - BASED CUSTOMIZED AND OPTIMIZED OFFLINE PDF SUMMARIZER USING MULTI - THREADING APPROACH ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAVAN, Tanishq Mahendra;GANGAPURE, Pruthvi Avinash;INAMDAR, Zafirah Zulfikar;MAHALLE, Parikshit;QURESHI, Zahrah Sameer;RAJPUT, Vaishali;TOSHNIWAL, Amogh Jagdish;ZANGARUCHE, Shrinidhi Shankar~

2025/09547 ~ Complete ~54:A MACHINE LEARNING, IOT AND ADAPTIVE TRAFFIC CONTROL BASED INTEGRATED SYSTEM FOR PUBLIC TRANSPORT DELAY PREDICTION AND REAL-TIME MITIGATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: KUWAR, Arya;MISHRA, Vishwanath;RATHI, Snehal;REGE, Pallavi;SHELKE, Priya M;TIWASKAR, Shweta~

2025/09550 ~ Complete ~54:ARTIFICIAL INTELLIGENCE-BASED SMART DRONE DELIVERY SYSTEM USING AI MULTI-AGENT TECHNOLOGY ~71:Seojoon Lee, Daejeon, Seo-gu, Gyebaek-ro 1161, 404-H35, 35242, Republic of Korea ~72: Seojoon Lee~

2025/09560 ~ Complete ~54:IDENTIFICATION OF A KEY GENE FOR REVERSION OF CANCER CELLS INTO NORMAL CELLS AND DRUG REPURPOSING ~71:biorevert Inc., T211ho, Jinri Hall, 193 Munji-ro, Yuseong-gu, DAEJEON 34051, REPUBLIC OF KOREA, Republic of Korea ~72: CHO, Kwang Hyun;GONG, Jeong Ryeol;HAN, Kyeong Hwan~ 33:KR ~31:10-2024-0092183 ~32:12/07/2024;33:KR ~31:10-2025-0087787 ~32:01/07/2025

2025/09534 ~ Complete ~54:METHOD AND SYSTEM FOR MONITORING INTELLECTUAL PROPERTY INFRINGEMENT BASED ON BIG DATA ANALYSIS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: XU Nana~

2025/09536 ~ Complete ~54:INTEGRATED URBAN DRAINAGE AND WATERLOGGING PREVENTION GATE STATION FOR EXTREME WEATHER ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: LIU Wenxuan;SI Yuhao;SONG Haolong;TIAN Junfeng;WU Li;XU Yilin;YANG Yuliu;ZHANG Peixin;ZHANG Yuchan~

2025/09542 ~ Complete ~54:METHOD FOR STACKED ELUTION OF MOTHER-DAUGHTER RADIONUCLIDES ~71:NorthStar Medical Technologies, LLC, 1800 Gateway Blvd., BELOIT 53511, WI, USA, United States of America ~72: DEVRIES, Daniel;DRUM, Tyler;HARVEY, James T.;ISENSE, Glenn~ 33:US ~31:63/437,228 ~32:05/01/2023

2025/09548 ~ Complete ~54:AN AI-POWERED TRAVEL ASSISTANCE SYSTEM WITH TRAVEL RECOMMENDATIONS AND MAP SUPPORT ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666,

UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: PANIGRAHI, Shaurya;SHARMA, Vishal;SHELKE, Jayant;SHELKE, Shubham;SHENDAGE, Omraje;SHENDE, Gaurav;VAYADANDE, Kuldeep~

2025/09565 ~ Complete ~54:ENCODING METHOD, DECODING METHOD, CODE STREAM, ENCODER, DECODER AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road Wusha Chang'an, Dongguan, Guangdong, People's Republic of China ~72: FUZHENG YANG;JUNYAN HUO;MING LI;NENGFU QIU;WENHAN QIAO;YANZHUO MA~

2025/09523 ~ Provisional ~54:UPHONDO LO MKHOMBE ~71:MFUNDO SONGEZO MBONTSI, 54 HINTSA CRESCENT, BHISHO CENTRAL, South Africa ~72: Mfundo Songezo Mbontsi~ 33:ZA ~31:ZA2025/1110 ~32:10/11/2025

2025/09539 ~ Complete ~54:USE OF NINE STEAMED AND NINE SUN-DRIED RHUBARB IN PROTECTING AGAINST CEREBRAL ISCHEMIC INJURY ~71:Institute of Chinese Materia Medica, China Academy of Chinese Medical Sciences, No. 16, Dongzhimennei South Alley, Dongcheng District, Beijing, People's Republic of China ~72: AO Xuan;LI Li;WANG Lan;XIE Lihua;XU Jing;YIN Xiaojie;ZUO Jingyu~

2025/09543 ~ Complete ~54:A SPORTS BLOOD LACTATE MONITORING WRISTBAND DEVICE THAT DOES NOT REQUIRE BLOOD SAMPLING ~71:Xinyu University, No. 2666, Yangguang Avenue, High-Tech Zone, Xinyu City, Jiangxi Province, People's Republic of China ~72: Huang Taibin;Li Ling;Liang Jing~

2025/09552 ~ Complete ~54:LASER ULTRASONIC GUIDED WAVE DAMAGE DETECTION METHOD BASED ON INTERPRETABLE DEEP TRANSFER LEARNING ~71:Nanchang Hangkong University, No.696 Fenghe South Avenue, Nanchang, Jiangxi Province, 330063, People's Republic of China ~72: Chao LU;Liuwei HUANG;Shuanglin GUO;Wenze SHI;Yuan LIU;Zhenhua CHEN~ 33:CN ~31:2025113630892 ~32:23/09/2025

2025/09555 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE TREATMENT OF CONGENITAL ADRENAL HYPERPLASIA ~71:CRINETICS PHARMACEUTICALS, INC., 6055 Lusk Blvd., United States of America ~72: AYALA, Alejandro;KRASNER, Alan;LUO, Sha;TRAINER, Peter~ 33:US ~31:63/503,248 ~32:19/05/2023;33:US ~31:63/631,658 ~32:09/04/2024

2025/09564 ~ Complete ~54:NMDA LIGAND CONJUGATED COMPOUNDS AND USES THEREOF ~71:ADARX PHARMACEUTICALS, INC., 5871 Oberlin Drive Suite 200, San Diego, California, 92121, United States of America ~72: CHANDRAMOULI CHIRUTA;HUEY-JING HUANG;KIN FONG;MEHDI MICHEL DJAMEL NUMA;RUI ZHU~ 33:US ~31:63/502,035 ~32:12/05/2023

2025/09615 ~ Provisional ~54:PHEHELLO INTEGRATED BIO-NANO-AI SERVER VALORIZATION SYSTEM ~71:PHEHELLO MOLISE CONSULTANTS (PTY) LTD REG 2024/208180/07, 1582 ZONE 10, SEBOKENG,, South Africa ~72: PHEHELLO JANIE LUKAS MOLISE ID 610104 6005 088~

2025/09525 ~ Provisional ~54:AN ORGANISATIONAL-LEVEL ARTIFICIAL-INTELLIGENCE OPERATING SYSTEM CONFIGURED TO MANAGE DIGITAL ASSETS ~71:VAN DEN BERG, DANIEL, 4 DANIE BLIGNAUT STREET, South Africa ~72: VAN DEN BERG, DANIEL~

2025/09529 ~ Complete ~54:BIOMASS COMBUSTION DEVICE ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LongXiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: FU Haoka;SONG Yanping;ZHAO Lixia~

2025/09568 ~ Provisional ~54:LSEE SOVEREIGN ENCRYPTION ENGINE FOR EPHEMERAL AND FULLY HOMOMORPHIC DATA PROTECTION ~71:Lonwabo Mbambo, 88 Carlmarie, South Africa ~72: Lonwabo Mbambo~ 33:ZA ~31:none ~32:10/11/2025

2025/09521 ~ Provisional ~54:IMPROVEMENT OF EFFICIENCY OF SAVONIUS WIND TURBINE ~71:DE JAGER, Van Aardt Abraham, 423 Marais straat, Brooklyn, South Africa ~72: DE JAGER, Van Aardt Abraham~

2025/09524 ~ Provisional ~54:ELECTRONIC SWITCH ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick Johannes;DE JONGH, Chris Hendrik;WOLMARANS, Wikus~

2025/09531 ~ Complete ~54:ANAEROBIC BLOOD STORAGE AND PATHOGEN INACTIVATION METHOD ~71:HEMANEXT INC., 99 Hayden Avenue, Building B, Suite 620, United States of America ~72: SOWEMIMO-COKER, Samuel, O.;SUTTON, Jeffrey;YOSHIDA, Tatsuro~ 33:US ~31:62/342,756 ~32:27/05/2016;33:US ~31:62/445,081 ~32:11/01/2017

2025/09540 ~ Complete ~54:EMERGENCY SYSTEM FOR MULTIPLE-INGOT CASTING PITS ~71:INNER MONGOLIA JINXI TECHNOLOGY CO., LTD., No. 22-12, Xingda Commercial, Huolinguole City, Tongliao City, People's Republic of China ~72: HOU, Menglong;LI, Bowen;WANG, Jianjun~

2025/09545 ~ Complete ~54:A SMART WASTE SEGREGATION SYSTEM USING MULTI-SENSOR INTEGRATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHARSAKADE, Ramkrishna Shantilal;KHARADE, Nandita Dnyaneshwar;KHARATE, Om Shravan;KHATAL, Ayush Satish;KHATAVKAR, Shreya Milind;KHEDEKAR, Shravani Sanjay;KHEDKAR, Samarth Shivaji;RAJURKAR, Avadhoot Umakant~

2025/09549 ~ Complete ~54:AN AI, IOMT AND LEAN SIX SIGMA (DMAIC) INTEGRATED SYSTEM FOR ENHANCING HOSPITAL PATIENT SAFETY AND QUALITY IMPROVEMENT ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAVHAN, Pranali;GAIKWAD, Vidya Shrimant;KARNIK, Madhuri Prashant;MESHRAM, Vishal A.;MISHRA, Vaishali;RATHI, Snehal Rahul;SHARMA, Yogesh;WANKHEDE, Disha Sushant~

2025/09557 ~ Complete ~54:RNA FOR PREVENTING OR TREATING TUBERCULOSIS ~71:BIONTECH SE, c/o BioNTech SE, An der Goldgrube, Germany;THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Office of the General Counsel, Building 170, Third Floor, Main Quad, P.O. Box 20386, Stanford, United States of America;UNIVERSITY OF CAPE TOWN, c/o University of Cape Town, Bremner Building, Lovers Walk, South Africa ~72: AGRAWAL, Neha;ATES, Louis Simon;DAVIS, Mark;DIAO, Huitian;DULBERGER, Charles Lefco;HUANG, Huang;MANANDHAR, Dinesh;MUSVOSVI, Munyaradzi;OBERMOSER, Gerlinde;PORAN, Asaf;ROTHENBERG, Daniel Abram;SCRIBA, Thomas;UEBELE, Julia~ 33:US ~31:63/496,147 ~32:14/04/2023;33:US ~31:63/496,149 ~32:14/04/2023;33:US ~31:63/512,681 ~32:10/07/2023;33:US ~31:63/512,683 ~32:10/07/2023;33:US ~31:63/586,839 ~32:29/09/2023

2025/09566 ~ Complete ~54:GSK3A INHIBITORS AND METHODS OF USE THEREOF ~71:BLUEPRINT MEDICINES CORPORATION, 45 Sidney Street, Cambridge, Massachusetts, 02139, United States of America ~72: AYSEGUL OZEN;BRIAN J GROENDYKE;JASON D BRUBAKER;JIE GE;JOSEPH L KIM;MEREDITH SUZANNE ENO;MICHAEL J BURKE;STEFAN DAVID GROSS;STEVEN MARK WENGLOWSKY;THOMAS A DINEEN~ 33:US ~31:63/465,428 ~32:10/05/2023;33:US ~31:63/530,858 ~32:04/08/2023

2025/09613 ~ Complete ~54: COSMETIC COMPOSITION ~71: Murray David Polkinghorne, 15 Margaret Bacon Ave, South Africa; Sakina Mehenni, 18 Seymour Place, United Kingdom ~72: Murray David Polkinghorne; Sakina Mehenni ~ 33: GB ~31: 2309893.2 ~32: 29/06/2023

2025/09528 ~ Complete ~54: RICE AUTOMATED FERTILIZATION AND PESTICIDE APPLICATION METHOD AND INTEGRATED SPRAYING DEVICE ~71: Nanjing University of Information Science & Technology, No.219, Ningliu Road, Nanjing, Jiangsu Province, 210044, People's Republic of China ~72: CHEN Jizhen; JING Yuanshu; LI Yu ~ 33: CN ~31: 202510490486X ~32: 18/04/2025

2025/09530 ~ Complete ~54: A METHOD FOR REDUCING SODIUM CYANIDE CONSUMPTION IN COPPER-BEARING GOLD ORES ~71: Metallurgical laboratory branch of Shandong gold mining technology Co., Ltd., No.888, Longbu Village, Jincheng Town, Laizhou City, Shandong Province, People's Republic of China; Shandong Gold Mining (Laizhou) Co., Ltd. Sanshandao Gold Mine, Sanshandao Village, Sanshandao Street, Laizhou City, Yantai City, Shandong Province, People's Republic of China; Chifeng Shandong Gold Hongling Nonferrous Mining Co., Ltd., Haobugao Gacha, Ulandaba Sumu, Bairin Left Banner, Chifeng City, Inner Mongolia Autonomous Region, People's Republic of China; China University of Mining and Technology (Beijing), No. 11, Building D, Xueyuan Road, Haidian District, Beijing, People's Republic of China ~72: Bai Ruihua; Chen Yanbo; Deng Jiushuai; Gao Tengyue; Ji Fenglun; Ji Qiang; Li Guangsheng; Liu Yunzhi; Qin Guanglin; Qin Xiangwei; Sun Lianxi; Wang Junjie; Wang Kaimei; Wang Nan ~ 33: CN ~31: 2025106523896 ~32: 21/05/2025

2025/09535 ~ Complete ~54: A BIOCHAR-BASED BIMETALLIC COMPOSITE CATALYST AND ITS APPLICATION ~71: ZHEJIANG HUADONG GEOTECHNICAL INVESTIGATION AND DESIGN INSTITUTE CO, Ltd, No. 321, Caideng Street, Xihu District, Hangzhou City, Zhejiang Province, 310000, People's Republic of China; Zhejiang Ocean University, (Xincheng Campus), No. 1 Haida South Road, Xincheng Sub-district, Dinghai District, Zhoushan City, Zhejiang Province, 316022, People's Republic of China; Zhejiang University of Water Resources and Electric Power, No. 508, No. 2 Street, Xiasha Higher Education Park, Qiantang District, Hangzhou City, Zhejiang Province, 310018, People's Republic of China ~72: Hengcong Tao; Huangwei Chen; Jiahua Yu; Lu Huang; Xiaoyang Chen; Yiyan Lv ~

2025/09553 ~ Complete ~54: A 6-4 PHOTOLYASE PREPARATION AND ITS PREPARATION METHOD ~71: Wannan Medical College, No. 22 Wenchang West Road, Higher Education Park, Wuhu, Anhui, People's Republic of China ~72: Liu Hao; Lv Jun; Meng Yu; Wan Mengqi; Wen Bin; Wu Mingcai; Xu Lei ~

2025/09561 ~ Complete ~54: MULTI-LINK PROTECTION FOR LOW LATENCY COMMUNICATIONS ~71: Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: DINAN, Esmael Hejazi; ERKUCUK, Serhat; KIM, Jeongki; LANANTE, Leonardo Alisasis ~ 33: US ~31: 63/458,695 ~32: 12/04/2023

2025/09563 ~ Complete ~54: CODING METHOD, SIGNAL PROCESSING METHOD AND RELATED DEVICE ~71: Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: ALSHINA, Elena Alexandrovna; WANG, Yichuan; XU, Weiwei; YU, Quanhe ~ 33: CN ~31: 202311032268.9 ~32: 15/08/2023; 33: CN ~31: 202311158678.8 ~32: 06/09/2023; 33: CN ~31: 202311294767.5 ~32: 28/09/2023

2025/09614 ~ Provisional ~54: UNIVERSAL RETROFIT SECURITY ENHANCEMENT MODULE FOR ANY COMMERCIAL DRONE (350-750MM DIAGONAL) WITH A-DRIVEN MULTI-TARGET TASER IMMOBILIZATION (>5 PERSONS), REAL-TIME 2-WAY VOICE INTERROGATION, NIGHT VISION, BULLET-EVASION, AUTONOMOUS RAIN-PROOF PATROL, AND MODULAR NON-LETHAL DETERRENTS DEPLOYED FROM DRONE OR BASE STATION ~71: PHEHELLO MOLISE CONSULTANTS (PTY) LTD REG

2024/208180/07, 1582 ZONE 10, SEBOKENG,, South Africa ~72: PHEHELLO JANIE LUKAS MOLISE ID 610104 6005 088~

2025/09520 ~ Provisional ~54:EDC HYBRID BELT. ~71:Hamza Saley, 11A Cleveland Road, South Africa ~72: Hamza Saley~

2025/09522 ~ Provisional ~54:TAP 2 TIP WATCH ~71:Jill Brunner, 74 Seekoeihoek, Magaliesburg, Gauteng, 1791, South Africa ~72: Jill Brunner~

2025/09526 ~ Provisional ~54:RP PAIN RELIEF ~71:Robyn Bohdal, 50 Donga Ave., South Africa ~72: Robyn Tessa Rhoda Bohdal~ 33:ZA ~31:N/A ~32:27/10/2025

2025/09541 ~ Complete ~54:MINIATURIZED COMBINED DEVICE FOR MULTI-POLLUTANT REMOVAL FROM GAS ~71:NANJING VOCATIONAL COLLEGE OF INFORMATION TECHNOLOGY, 99 Wenlan Road, Qixia District, Nanjing, People's Republic of China ~72: ZHANG, Jun;ZHAO, Chunbao;ZHAO, Wei~

2025/09544 ~ Complete ~54:AN IOT-BASED VOICE-CONTROLLED HOME AUTOMATION FOR PARALYZED INDIVIDUALS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAVHAN, Gajanan Himantrao;CHAVHAN, Pranali Gajanan;JADHAV, Atharv Abasaheb;KALE, Atharv Vinod;MORE, Priyanka D.;PABLE, Arya Hanumant;RATHI, Snehal R.;SHIWALE, Chaitali Ramesh;SIRSAT, Aditya Kailas;WANKHEDE, Disha Sushant~

2025/09554 ~ Complete ~54:LOGGING OF MDT INFORMATION ~71:TELEFONAKTIEBOLAGET L M ERICSSON (PUBL), SE-164 83, Sweden ~72: BELLESCHI, Marco;BIN REDHWAN, Sakib;PARICHEHREHTEROUJENI, Ali;RAMACHANDRA, Pradeepa~ 33:US ~31:63/531,144 ~32:07/08/2023

2025/09556 ~ Complete ~54:CYCLIN INHIBITORS ~71:CIRCLE PHARMA, INC., 169 Harbor Way, United States of America ~72: AGGEN, James B.;BAMBAL, Ramesh B.;BHATT, Chinmay;BOCKUS, Andrew T.;DEMART, Megan;DUPPER, Nathan J.;HO, Ming Hsun;KREATSOULAS, Constantine;LEUNG, Sik Fai Siegfried;METOBO, Samuel;SHAPIRO, Justin A.;SINGH, Rajinder;WALTON, Breena F.;YANG, Kai~ 33:US ~31:63/467,651 ~32:19/05/2023;33:US ~31:63/612,533 ~32:20/12/2023;33:US ~31:63/637,984 ~32:24/04/2024

2025/09558 ~ Complete ~54:PACIFIER ~71:KAHN, Sandra Vivian, 20 Melrose Ct., United States of America ~72: KAHN, Sandra Vivian~ 33:ES ~31:U202330688 ~32:21/04/2023

2025/09537 ~ Complete ~54:METHOD FOR PREDICTING DYNAMIC EXPOSURE TIME OF MINE ROOF CONSIDERING STRUCTURAL CREEP OF ROCK MASS ~71:Shangri-La Yunkuang Hongniu Mining Co., Ltd, Hongniu Copper Mine, Geza Village, Geza Town, Shangri-La, Diqing Tibetan Autonomous Prefecture, Yunnan Province, 674400, People's Republic of China ~72: Yongchun YU~ 33:CN ~31:2025104657237 ~32:15/04/2025

2025/09538 ~ Complete ~54:REGIONAL DROUGHT EARLY WARNING METHOD BASED ON MULTI-TYPE METEOROLOGICAL-AGRICULTURAL DROUGHT EVENT RESPONSE ~71:NORTH CHINA UNIVERSITY OF WATER RESOURCES AND ELECTRIC POWER, No. 136 Jinshui Donglu, Zhengdong Xinqu, Zhengzhou, Henan, People's Republic of China ~72: FENG Kai;HUANG Shengzhi;LI Yanbin;QU Jihong;WANG Yingying;WANG Fei;ZHANG Zezhong~

2025/09559 ~ Complete ~54:DECODING DEVICE, ENCODING DEVICE, DECODING METHOD, AND ENCODING METHOD ~71:Panasonic Intellectual Property Corporation of America, 2050 W 190th Street, Suite 450, TORRANCE 90504, CA, USA, United States of America ~72: ABE, Kiyofumi;GAO, Jingying;LIM, Chong

Soon;NISHI, Takahiro;TEO, Han Boon;TOMA, Tadamasa;YADAV, Praveen Kumar~ 33:US ~31:63/458,756
~32:12/04/2023

2025/09567 ~ Complete ~54:MEASUREMENT AND ADJUSTMENT OF EXTENDED REALITY ROUNDTRIP
DELAYS ~71:INTERDIGITAL CE PATENT HOLDINGS, SAS, 3 rue du Colonel Moll, 75017, Paris, France ~72:
ETIENNE FAIVRE D'ARCIER;LOIC FONTAINE;MAJD ALGHADDAF;PATRICE HIRTZLIN;PIERRICK
JOUET;STEPHANE ONNO;SYLVAIN LELIEVRE~ 33:EP ~31:23305767.8 ~32:15/05/2023

- APPLIED ON 2025/11/12 -

2025/09573 ~ Provisional ~54:A SYSTEM FOR PREVENTING FRAUDULENT BANKING TRANSACTIONS
~71:DISCOVERY LIMITED, 1 Discovery Place, corner of Rivonia Road and Katherine Street, Sandton, 2196,
South Africa ~72: TO BE ADVISED~

2025/09574 ~ Complete ~54:METHOD FOR PREPARING JOINTED ROCK MASS SAMPLE AND STANDARD
ROCK SAMPLE ~71:Henan University of Science and Technology, No. 263 Kaiyuan Avenue, Luoyang City,
Henan Province, 471023, People's Republic of China ~72: CAI, Junchao;CHANG, Zhichao;FANG, Zhiyuan;LIU,
Keke;WANG, Junping;ZHANG, Hongfa~ 33:CN ~31:202511574386.1 ~32:30/10/2025

2025/09579 ~ Complete ~54:POLLEN COLLECTING AND RAPID EMASCULATING APPARATUS
~71:Sericulture and Apiculture Research Institute, Yunnan Academy of Agricultural Sciences (YAAS), Caoba
Town, Mengzi City, Honghe Hani and Yi Autonomous Prefecture, Yunnan Province, 661101, People's Republic of
China ~72: GAO Han;JIA Zhenhang;JIAO Ruifang;LI Kaifeng;MIAO Chunhui;WEI Jing;WU Dandan;WU Rui;ZHU
Jianrong~

2025/09594 ~ Complete ~54:INSECTICIDAL PROTEIN AND USE THEREOF ~71:BEIJING DABEINONG
BIOTECHNOLOGY CO., LTD., 1st Floor, No.2 Building, Yard 19, Chengwan Street, People's Republic of China
~72: GAO, Yuhan;PANG, Jie;WANG, Qinyang;XIE, Xiangting;ZHANG, Liangwei;ZHANG, Ming~
33:CN ~31:202410361677.1 ~32:27/03/2024

2025/09610 ~ Complete ~54:AMIDO PYRIDO[3,4-B]INDOLE-1, 4-DIONE COMPOUNDS FOR TREATMENT OF
PORPHYRIAS ~71:PORTAL THERAPEUTICS, INC., 3160 Porter Drive, Suite 250, Palo Alto, California, 94304,
United States of America ~72: BENOIT BACHAND;EDMOND HUANG;KARA BROWER;MORGAN
PAULL;ROBERT ZAMBONI;SHIGUANG LI;UMA SINHA~ 33:US ~31:63/498,362 ~32:26/04/2023

2025/09612 ~ Complete ~54:EGFR INHIBITORS FOR TREATING DISEASE ~71:BLOSSOMHILL
THERAPEUTICS, INC., 10255 Science Center Drive, Suite 200, San Diego, California, 92121, United States of
America ~72: ANINDYA SARKAR;DAYONG ZHAI;EUGENE YUANJIN RUI;EVAN W ROGERS;JANE
UNG;JINGRONG JEAN CUI;WEI DENG~ 33:US ~31:63/463,498 ~32:02/05/2023;33:US ~31:63/627,624
~32:31/01/2024;33:US ~31:63/636,734 ~32:20/04/2024

2025/09617 ~ Provisional ~54:MULTI FUNCTIONAL INTERLOCKING SMART PAVING BRICKS ("MOLISE
SECURESMART PAVERS") ~71:PHEHELLO MOLISE CONSULTANTS (PTY) LTD REG 2024/208180/07, 1582
ZONE 10, SEBOKENG, South Africa ~72: PHEHELLO JANIE LUKAS MOLISE~

2025/09578 ~ Complete ~54:COMPUTER VISION-BASED WEARABLE PROTECTION DETECTION AND
ANALYSIS SYSTEM AND METHOD ~71: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:
Chuang Zhou;Fan Yang;Fangpeng Lai;Guojiao Wen;Jianfeng Liu;Jin Zhu;Kun Li;Leilei Xu;Lu Zhao;Miao

Zhang;Panpan Li;Qiwang Xie;Shan Liu;Shangang Wang;Wen Liu;Xiaohong Gao;Xue Wang;Yan Liu;Zhenlong Wang;Zhuo Chen~ 33:CN ~31:2025101218929 ~32:26/01/2025

2025/09581 ~ Complete ~54: COSMETIC COMPOSITIONS ~71: Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: HUMEAU, Anne;MEUNIER, Marie;SCANDOLERA, Amandine~ 33:GB ~31:2416713.2 ~32:13/11/2024

2025/09586 ~ Complete ~54: AN IOT-INTEGRATED MOTORIZED HAND REHABILITATION DEVICE FOR HOME-BASED NEURO-MUSCULAR THERAPY ~71: VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: DINDE, Sarthak Arun;GHOLAWADE, Sahil Subhash;KALE, Kaiwalya Abhay;KOMBLE, Sachin Prabhakar;KORWAR, Ganesh Dattatray;KULKARNI, Nishant Shashikant;SONI, Antra Jitendra;VISPUTE, Siddhesh Kishor~

2025/09587 ~ Complete ~54: AN INTELLIGENCE HYDRATION SYSTEM WITH SCHEDULING AND NOTIFICATION FEATURES ~71: VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BORKAR, Pranay;DHUMAL, Amol Radhakisan;DUROLE, Mayuri;PATIL, Kartavya;PATIL, Nishant;RATHOD, Praveen Pomu~

2025/09593 ~ Complete ~54: A METHOD OF IDENTIFICATION AND AUTHENTICATING USER INFORMATION ~71: Darren Rael Winer, Unit 4 Emerald Place, 3 Fort Street, Illovo, South Africa ~72: WINER, Darren Rael~

2025/09595 ~ Complete ~54: MANAGEMENT SYSTEM AND MANAGEMENT METHOD ~71: SINTOKOGIO, LTD., 28-12, Meieki 3-chome, Nakamura-ku, Japan ~72: HIROSE, Masaki;KENJO, Isaku;SHIBUYA, Norihito~ 33:JP ~31:2023-088137 ~32:29/05/2023

2025/09601 ~ Complete ~54: PDCCH SKIPPING HANDING AFTER NACK TRANSMISSION ~71: NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KAIKKONEN, Jorma, Johannes;RANTA-AHO, Karri, Markus;WU, Chunli~

2025/09603 ~ Complete ~54: SECURITY INKS AND MACHINE READABLE SECURITY FEATURES ~71: SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: LOPEZ SANCHEZ, Lazaro;VEYA, Patrick~ 33:EP ~31:23167755.0 ~32:13/04/2023

2025/09608 ~ Complete ~54: METHOD FOR TREATMENT OF A BIOLOGICAL SAMPLE ~71: QIAGEN GMBH, Qiagen Strasse 1, 40724, Hilden, Germany ~72: MARIO SCHERER;MELANIE KRAEMER;NINA-SOPHIE LAUREYS;PHILIPP RINK;SARAH HESS;THORSTEN SINGER~ 33:EP ~31:23173335.3 ~32:15/05/2023

2025/09616 ~ Provisional ~54: HYGIENIX SELF POWERED TRIPLE HYBRID SELF SANITIZING ANTIMICROBIAL SURFACE SYSTEM FOR DOOR HANDLES AND HOSPITAL BED FRAMES USING DUAL MODE LIGHT EMISSION AND PATHOGEN TRAPPING NANOMEMBRANE ~71: PHEHELLO MOLISE CONSULTANTS (PTY) LTD REG 2024/208180/07, 1582 ZONE 10, SEBOKENG, South Africa ~72: PHEHELLO JANIE LUKAS MOLISE ID 610104 6005 088~

2025/09572 ~ Provisional ~54: C&D WASTE MANAGEMENTY ~71: Novelto Engineering Services (Pty) Ltd., 0230 Kgale Village, Phokeng, South Africa ~72: Harold Lebogang Bopalamo~ 33:ZA ~31:ZA2025003 ~32:11/11/2025

2025/09577 ~ Complete ~54: METHOD FOR RAPID SCREENING OF KLEBSIELLA PNEUMONIAE BACTERIOPHAGE ~71: Henan Agricultural University, No. 218, Ping 'an Avenue, Zhengdong New District,

Zhengzhou, People's Republic of China ~72: Hang Zhang;Hua Wu;Jianhua Liu;Li Yuan;Sukun Li;Yajun Zhai;Yidan Zhang;Yuying Zhang~ 33:CN ~31:202510729666.9 ~32:03/06/2025

2025/09582 ~ Complete ~54:AN AUTOMATING INTERNAL FORCE MEASUREMENT SYSTEM FOR STRUCTURES ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: AMBHOORE, Vishal B.;GHUGE, Gajanan Vishwanath;MATHURKAR, Piyush Kiranrao;PATIL, Deepraj Gorakh;PATIL, Harshvardhan Sanjay;PATIL, Kartik Kishor;PATIL, Mayank Satish;PATIL, Mitesh Suresh;PATIL, Omkar Yuvraj~

2025/09585 ~ Complete ~54:A WHITEBOARD SYSTEM FOR DIGITIZATION OF TRADITIONAL CHALK/WHITEBOARD ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHOUGULE, Sinin Gulfam;KARANDIKAR, Varsha Narayan;MAID, Soham Pradip;SIDDIQUI, Ifreen Imdadur Rahman;SINGH, Pawan Piyush;SITAFAL, Yash Vivek;SUVARNA, Soham Sachin~

2025/09590 ~ Complete ~54:A GENERATIVE AI BASED SYSTEM FOR CONVERSATIONAL ENGAGEMENT AND COGNITIVE STIMULATION IN ELDERLY CARE ENVIRONMENTS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: DESHMUKH, Shraddha Bhivraj;KALE, Parth Dilip;MAHAJAN, Rupali;PAIKRAO, Shubham Sharad;PALIKUNDWAR, Shravan Mahesh;PATIL, Rasika Sunil;TIWASKAR, Shweta~

2025/09597 ~ Complete ~54:MOBILE DEFIBRILLATOR WITH IMPROVED PADS, CHARGING, AND SWITCHING ~71:DEFIBRIO AS, REPELEN 27, 5239 RAADAL, NORWAY, Norway ~72: BERGBY, Arne;HALE, Joshua;HANSEN, Jon, Kåre;NORE, Bjarte~ 33:US ~31:18/302,113 ~32:18/04/2023

2025/09598 ~ Complete ~54:A COOLED LAYERED SOLAR PANEL ~71:BAIOCCO, Massimo, 4 TUSCAN PLACE, 138 DYTCHLEY ROAD, KYALAMI, 1684, PRETORIA, SOUTH AFRICA, South Africa ~72: BAIOSCO, Massimo~ 33:ZA ~31:2023/04565 ~32:20/04/2023;33:ZA ~31:2023/11390 ~32:12/12/2023

2025/09604 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: BOCOKIC, Vladica;DENIGOT, Marion;HARRISON, Ian Michael~ 33:EP ~31:23167736.0 ~32:13/04/2023

2025/09607 ~ Complete ~54:METHOD OF STARTING UP AN ELECTROLYTIC CELL FOR ALUMINUM PRODUCTION ~71:RIO TINTO ALCAN INTERNATIONAL LIMITED, 400-1190 Avenue des Canadiens de Montréal, Montreal, Québec, H3B 0E3, Canada ~72: LAURIER TREMBLAY;PATRICE DESROSIERS~ 33:US ~31:63/513,962 ~32:17/07/2023

2025/09583 ~ Complete ~54:AN AI-BASED AUTOMATED SPERM ANALYSIS SYSTEM FOR MOTILITY AND MORPHOLOGY ASSESSMENT ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: JOY, Joel;KHARATE, Pranit Prakash;MANE, Mansi Sanjay;MANE, Rushabh Shivraj;MHETRE, Manisha Rajesh~

2025/09588 ~ Complete ~54:SMART WATER CONSERVATION AND MONITORING SYSTEM FOR SUSTAINABLE BUSINESS OPERATIONS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAVHAN, Pranali;GAIKWAD, Vidya Shrimant;KARNIK, Madhuri Prashant;MISHRA, Vaishali;PATIL, Swati;RATHI, Snehal Rahul;SHARMA, Yogesh;WANKHEDE, Disha Sushant~

2025/09592 ~ Complete ~54:NON-AQUEOUS MONOPHASIC LONG-LASTING INSECT REPELLENT DISPERSION FOR TOPICAL APPLICATION ~71:GODREJ CONSUMER PRODUCTS LTD., 4th Floor, Godrej

One, Pirojshanagar, Eastern Express Highway, Vikhroli (East), Mumbai 400079, Maharashtra, India ~72: AMIT SANJAY LOKHANDE;KANDASAMY MARISAMY;REENA BIBALS;VENKATESWARA RAO YADLAPALLI~ 33:IN ~31:202421087413 ~32:13/11/2024

2025/09602 ~ Complete ~54:TRANSMISSION OCCASION DETERMINATION IN SUB-BAND FULL DUPLEX OPERATION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: NHAN, Nhat-Quang;PORTELA LOPES DE ALMEIDA, Erika;SUN, Jingyuan;YUK, Youngsoo~

2025/09609 ~ Complete ~54:BICYCLIC COMPOUNDS FOR KETOHEXOKINASE INHIBITION ~71:CENTENNIAL THERAPEUTICS, LLC, 15857 East Aberdeen Avenue Centennial, Colorado 80016, United States of America ~72: ERIK J TILLMAN;GAVIN WHITLOCK;PAUL GLOSSOP;TIMOTHY P ROLPH~ 33:US ~31:63/470,070 ~32:31/05/2023

2025/09576 ~ Complete ~54:SYSTEM AND METHOD FOR PRODUCING A VIDEO STREAM ~71:LIVEARENA TECHNOLOGIES AB, Box 112 08, Sweden ~72: BJÖRKMAN, Andreas;BLANKENS, Per;ERLMAN, Lars;NILSSON, Anders;RAGNARSSON, Marcus;SÖRQVIST, Maxx~ 33:SE ~31:2250113-4 ~32:04/02/2022

2025/09600 ~ Complete ~54:SERVICE CONTINUITY FOR USER EQUIPMENT APPARATUS (UE) RECEIVING MULTICAST IN RADIO RESOURCE CONTROL (RRC) INACTIVE STATE ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: ELMALI, Ugur Baran;GODIN, Philippe;MALKAMÄKI, Esa, Mikael;NARAYANAN, Subin~ 33:US ~31:63/496,450 ~32:17/04/2023

2025/09569 ~ Provisional ~54:VAPCOOL ~71:David Onderstall, 13 Alfa Street, South Africa ~72: David Onderstall~

2025/09571 ~ Provisional ~54:TRACKING DEVICE ~71:Norman K. van Rooyen, 14 Impala Road, Langeberg Ridge, South Africa ~72: Norman K. van Rooyen~

2025/09575 ~ Complete ~54:METHOD FOR REDUCING CONTENT OF INSOLUBLE DIETARY FIBERS IN CAMELLIA SEED MEAL ~71:Jiangxi Choisun Tea Development Co., Ltd., Phoenix Industrial Park, Ji'an County, Ji'an City, Jiangxi Province, People's Republic of China ~72: Liangcheng Xiao;Mengjie Li;Mengyao Cui;Tuanjie Zhang;Wenqiang Liu;Xiangjie Zhang~ 33:CN ~31:2024118391696 ~32:13/12/2024

2025/09580 ~ Complete ~54:PLASMA TECHNOLOGY-BASED METHOD FOR FULL QUANTITATIVE UTILIZATION OF ELECTRIC FURNACE DUST ~71:Hefei Institutes of Physical Science, Chinese Academy of Sciences, No. 350, Shushanhu Road, Luyang District, Hefei City, Anhui Province, 230088, People's Republic of China ~72: LI Shuqin;NI Guohua~

2025/09584 ~ Complete ~54:AN EV CHARGING STATION LOCATOR SYSTEM FOR REAL-TIME DETECTION OF ACTIVE AND FAULTY STATIONS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: KULKARNI, Atul Prabhakar;MEHARE, Vansh Vinit;MESHRAM, Vidula Vishal;MESHRAM, Vishal Ambadas;PATIL, Vaishali Arun;SHINDE, Sandip Ramrao~

2025/09589 ~ Complete ~54:AN AI-BASED SMART NAVIGATION AND ASSISTANCE SYSTEM FOR DIFFERENTLY-ABLED COMMUTERS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: DESAI, Sharada;DESHMUKH, Shraddha Bhivraj;MAHAJAN, Rupali;PALIKUNDWAR, Shravan Mahesh;PATIL, Rasika Sunil;SHINDE, Gitanjali~

2025/09570 ~ Provisional ~54:MIYAU: SYSTEMS AND METHODS FOR PEER-TO-PEER EXCHANGE OF AUTHORITY-VERIFIED IDENTITY PROOFS ~71:Theobald Ayatolla Mbadaliga, 43 Waterbessie Street, South Africa ~72: Theobald Ayatolla Mbadaliga~

2025/09591 ~ Complete ~54:BIS-OCTAHYDROPHENANTHRENE CARBOXAMIDES AND PROTEIN CONJUGATES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: AMY HAN;ANDREW J MURPHY;WILLIAM OLSON~ 33:US ~31:62/508,327 ~32:18/05/2017

2025/09596 ~ Complete ~54:USE OF AMINE POLYMERS IN CARBON CAPTURING ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: GARCIA CASTRO, Ivette;HUEFFER, Stephan;KLOPSCH, Rainer~ 33:EP ~31:23169041.3 ~32:20/04/2023

2025/09599 ~ Complete ~54:FLEXIBLE DEVICE FOR TREATING A BONE FRACTURE ~71:I.T.S. GMBH, AUTAL 28, 8301 LASSNITZHÖHE, AUSTRIA, Austria ~72: PRAGER, Ronald~ 33:AT ~31:A 50299/2023 ~32:21/04/2023

2025/09605 ~ Complete ~54:FRAGRANCE COMPOSITION ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: RINAUDO, Elisabeth~ 33:GB ~31:2305429.9 ~32:13/04/2023;33:GB ~31:2319461.6 ~32:19/12/2023

2025/09606 ~ Complete ~54:COMBINATIONS OF KRAS INHIBITOR AND ATR INHIBITOR FOR THE TREATMENT OF CANCER ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: KOERS, Alexander;LAU, Alan;ROSS, Sarah~ 33:US ~31:63/496,040 ~32:14/04/2023

2025/09611 ~ Complete ~54:CASTING SYSTEM ~71:RIO TINTO ALCAN INTERNATIONAL LIMITED, 400-1190 Avenue des Canadiens de Montréal, Montréal, Québec, H3B 0E3, Canada ~72: ALEXANDRE MALTAIS;BRUNO BOURASSA;GINO BOUCHARD;JOAN BOULANGER;LAURENT PILOTE;MARTIN MOREL;SANDRELLA SAMAHA;VINCENT GOUTIERE~ 33:US ~31:63/504,770 ~32:29/05/2023

2025/09618 ~ Provisional ~54:SECURE IDENTITY-BASED RE-ENROLLMENT OF CRYPTOGRAPHIC PRIVATE KEYS IN SIM SECURE ELEMENTS ~71:FRANCOIS PIERRE JOUBERT, 521,20th AVE, RIETFontein, South Africa ~72: FRANCOIS PIERRE JOUBERT~

- APPLIED ON 2025/11/13 -

2025/09619 ~ Provisional ~54:TOKENIZED SYSTEM FOR COMPLIANT BULK PAYMENT AND PAY-AS-YOU-GO ACCESS TO FITNESS FACILITIES ~71:Mohau Ditshego Vincent Chopo, 1 Kina street, Randburg, South Africa ~72: Mohau Ditshego Vincent Chopo~

2025/09621 ~ Provisional ~54:A CONNECTING ARRANGEMENT FOR A CONTAINER ASSEMBLY ~71:DU PLESSIS, Venessa, 109 BURGER AVENUE, LYTTTELTON, CENTURION, 0157, SOUTH AFRICA, South Africa ~72: DU PLESSIS, Venessa~

2025/09665 ~ Complete ~54:PACKAGING TRAY AND MULTI-FUNCTION MICRO-FLUIDIC ASSEMBLY HAVING SAME ~71:VITAL BIOSCIENCES INC., 3165 UNITY DR., UNIT 2, MISSISSAUGA, ONTARIO L5L, 4L4, CANADA, Canada ~72: KAZEMZADEH, Farnoud;LENGYEL, Mate;MURSHID, Fuad;NADELLA, Srinivas~ 33:US ~31:63/498,228 ~32:25/04/2023

2025/09667 ~ Complete ~54:A TENSIONING POST AND A TENSIONING SYSTEM ~71:APATCO FENCE TENSIONING SYSTEMS PTY LTD, PO Box 3241, Port Augusta West,, Australia ~72: UNDERWOOD, Mark Shane~ 33:AU ~31:2023901108 ~32:14/04/2023;33:AU ~31:2023902110 ~32:30/06/2023

2025/09670 ~ Complete ~54:A METHOD TO PROVIDE A SET OF RANDOMLY ORDERED CARDS
~71:Cartamundi Services NV, Turnovatoren 14, TURNHOUT B1 2300 , BELGIUM, Belgium ~72: NIETVELT,
Steven Karel Maria;VAN DEUN, Jasper;VERHEYEN, Tom Astrid Louis~ 33:EP ~31:23185219.5
~32:13/07/2023

2025/09677 ~ Complete ~54:BIO-INSPIRED NANOCOATING AND THE USE THEREOF ~71:THE PENN STATE
RESEARCH FOUNDATION, 304 Old Main, University Park, Pennsylvania, 16802, United States of America ~72:
AMIR SHEIKHI;ROYA KOSHANI;SHANG-LIN YEH~ 33:US ~31:63/495,895 ~32:13/04/2023

2025/09680 ~ Complete ~54:METHOD AND APPARATUS FOR UPDATING SOFTWARE OF VEHICLE
CONTROLLER, DIGITAL SIGNING SYSTEM, AND COMPUTER PROGRAM PRODUCT ~71:CHERY
AUTOMOBILE CO., LTD., No. 8, Changchun Road, Economy & Technology Development Zone, Wuhu, 241006,
Anhui, People's Republic of China ~72: HUI XIANG;KONGXIANG LIU;WEI MA;XUE LIU~
33:CN ~31:202410893881.8 ~32:04/07/2024

2025/09687 ~ Provisional ~54:SYSTEM AND METHOD FOR FIRST-RESPONDER-INITIATED EMERGENCY
MEDICAL DISPATCH AND PRE-ARRIVAL DATA TRANSMISSION VIA PORTABLE IDENTIFIER
~71:Letlhogonolo Mathe, 4468 Block B Mabopane, Mabopane Unit B, South Africa ~72: Letlhogonolo Mathe~

2025/09692 ~ Provisional ~54:MPHAKATHI. GBV AND SAFETY APP ~71:Wesley Mamafa, 2144 Zone 9 .
Meadowlands. Soweto, South Africa ~72: Wesley Mamafa~ 33:ZA ~31:1 ~32:12/11/2025

2025/09620 ~ Provisional ~54:AN ACCESSORY FOR A CABLE TIE ~71:VAN DEN BERG, Jan, Dirk, Johannes,
22 CYPRESS CRESCENT, JIM FOUCHEPARK, WELKOM, 9460, SOUTH AFRICA, South Africa ~72: VAN DEN
BERG, Jan, Dirk, Johannes~

2025/09626 ~ Provisional ~54:WINCH STARTER POLE ~71:SIMON MOATE, 2256 Pudunong Section, South
Africa ~72: SIMON MOATE~

2025/09627 ~ Complete ~54:A METHOD FOR CONSTRUCTING A MODULAR CURRICULUM SYSTEM FOR
NEW ENERGY VEHICLE (NEV) SPECIALTIES BASED ON DUAL-ENTITY COLLABORATION ~71:Hebei
Jiaotong Vocational and Technical College, No.339 Huai'an East Road, High tech Zone, Shijiazhuang City, Hebei
Province, People's Republic of China;Hebei Vocational College Of Labour Relations, No. 6 Xueyuan Road, South
End of Hongqi Street, Qiaoxi District, Shijiazhuang City, Hebei Province, People's Republic of China ~72: Dong
Panpan;Du Danyang;Liu Guoxin;Liu Yapeng;Lu Liqiang;Wang Aibing;Wang Jiao;Zhang Huaxin;Zhang
Meng;Zong Mingjian~ 33:CN ~31:2025114945438 ~32:20/10/2025

2025/09630 ~ Complete ~54:ADAPTIVE SMART SYSTEM FOR SKIN DISEASE IDENTIFICATION AND
PROGRESSION TRACKING ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT
Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of
Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research,
Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd,
Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences,
Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India ~72: Dr. Nitin Tandon;Dr. Satvir Singh;Dr.
Sharuti Mehta;Dr. Vir Vikram;Dr.Gagandeep Singh;Ms. Neelam Kumari;Ms. Preet Kaur~

2025/09653 ~ Complete ~54:REHABILITATION TRAINING DEVICE FOR TRADITIONAL CHINESE MEDICINE
ORTHOPEDICS & TRAUMATOLOGY ~71:THE PEOPLE'S HOSPITAL OF YANTING CITY, O. 208, UPPER
SECTION OF MIJIANG ROAD, YUNXI TOWN, YANTING COUNTY, MIANYANG CIT, People's Republic of China
~72: GUO, Jinfeng~

2025/09662 ~ Complete ~54:COAL MINE GAS INSPECTION METHOD ~71:NORTH CHINA INSTITUTE OF SCIENCE AND TECHNOLOGY NATIONAL SAFETY TRAINING CENTER OF COAL MINES, No.368 North Shimen Road, Wulituo Nangong Station Shijingshan District, Beijing, 100022, People's Republic of China ~72: CAI, Feng;CHEN, Liang;CHENG, Zhiheng;GAO, Xu;LI, Chunyuan;LI, Rui;LI, Zhenhua;WANG, Hongbing;WANG, Lei;YAN, Dahe;YIN, Shuaifeng;ZHANG, Hongtu;ZHANG, Jingui;ZHANG, Jinhu;ZHANG, Jun;ZHAO, Zhiqiang;ZHAO, Zhiyan;ZOU, Quanle~ 33:CN ~31:2023105584836 ~32:18/05/2023

2025/09668 ~ Complete ~54:NON-INVASIVE IN-VITRO METHOD FOR SOMATIC MUTATION DETECTION ~71:MEDICOVER BIOTECH LTD., Neas Egomis, 31, Cyprus ~72: ACHILLEOS, Achilleas;ELIADES, Alexia;IOANNIDES, Marios;KOUMBARIS, George;KYPRI, Elena;LEMESIOS, Christos;LOIZIDES, Charalambos;PATSALIS, Philippos;TSANGARAS, Kyriakos~ 33:EP ~31:23174025.9 ~32:17/05/2023

2025/09673 ~ Complete ~54:MOUNTING METHOD AND ASSISTANCE DEVICE FOR STEEL CONTAINMENT ~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: CHU, Meng;GE, Honghui;GU, Shengquan;LIU, Shenghua;LU, Hongzao;TANG, Fuping;WANG, Mingdan;XU, Ting;ZHANG, Rui~ 33:CN ~31:202310402889.5 ~32:14/04/2023

2025/09689 ~ Provisional ~54:PHEHELLO MULTI -THREAT DISORIENTATION TORCH (PMDT) HAND-HELD SELF-DEFENSE DEVICE WITH INTEGRATED TASER,DAZZLER LASER,SIREN,AND PROTECTIVE SHIELD ~71:PHEHELLO MOLISE CONSULTANTS (PTY) LTD REG 2024/208180/07, 1582 ZONE 10, SEBOKENG, South Africa ~72: PHEHELLO JANIE LUKAS MOLISE~

2025/09624 ~ Provisional ~54:ELECTRONIC SWITCH ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick Johannes;DE JONGH, Chris Hendrik;WOLMARANS, Wikus~

2025/09633 ~ Complete ~54:SMART SYSTEM FOR IMAGE-BASED IDENTIFICATION OF NAIL DISEASES ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India ~72: Dr. Amandeep Kaur Gill;Dr. Nitin Tandon;Dr. Satvir Singh;Er.Davinder Singh;Mr. Sukhdayal Dhanday;Ms. Priyakshi Rana;Ms.Diksha Bhatt~

2025/09636 ~ Complete ~54:DNA-BASED DRUG FORMULATIONS FOR PERSONALIZED MEDICINE USING GENETIC MARKERS ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Amandeep Kaur Gill;Dr. Anurag Sharma;Dr. Arvind Kumar;Dr. Nitin Tandon;Dr. Shahid Ud Din Wani;Dr. Vaneet Kumar;Mr. Ramanand Mishra~

2025/09638 ~ Complete ~54:SMART SYSTEM FOR IDENTIFICATION OF DISEASES USING NAVEEL IMAGING BASED ON AYURVEDIC PRINCIPLES ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology,

Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India ~72: Dr. Dilpreet Singh;Dr. Nitin Tandon;Dr. Satvir Singh;Ms. Monika Gharu;Ms. Preeti;Ms.Nisha;Ms.Shaina Kalsi~

2025/09634 ~ Complete ~54:SMART SYSTEM FOR IDENTIFICATION OF DISEASES USING TONGUE IMAGING BASED ON AYURVEDIC PRINCIPLES ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India ~72: Dr. Ankita Gupta;Dr. Dilpreet Singh;Dr. Nitin Tandon;Dr. Satvir Singh;Er.Anu Arora;Mr. Amir Raza;Ms.Shilpa~

2025/09637 ~ Complete ~54:SMART SYSTEM FOR IDENTIFICATION AND QUANTIFICATION OF SULPHATES IN SHAMPOO COMPOSITIONS ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Nitin Tandon;Dr. Rupali Dhir;Dr. Syed Mufeed Ahmad;Dr.Gagandeep Singh;Mr. Akshay Thakur;Mr. Bhuvan Puri;Ms. Seema Sharma~

2025/09640 ~ Complete ~54:SMART SYSTEM FOR IDENTIFICATION OF DISEASES USING FOOT IMAGING AND ANALYSIS ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India ~72: Dr. Lakhvir Kaur;Dr. Nitin Tandon;Dr. Satvir Singh;Mr. Jitendra Chaudhary;Mr.Gopal Thakur;Ms. Preet Kaur;Ms.Nootan~

2025/09646 ~ Complete ~54:BIODEGRADABLE MICRO-NEEDLE PATCHES AND DRUG DELIVERY SYSTEM VIA DISSOLVABLE MICRONEEDLES ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India ~72: Dr. Arvind Kumar;Dr. Gagandeep Kaur;Dr. Jaswinder Kaur;Dr. Nitin Tandon;Dr. Shikha Thakur;Mr.Tarun;Ms. Keerti Shrivastava~

2025/09669 ~ Complete ~54:PSMA-TARGETED RADIOPHARMACEUTICALS AND DNA DAMAGE RESPONSE INHIBITOR COMBINATION THERAPY ~71:Fusion Pharmaceuticals Inc., 270 Longwood Road, SOUTH HAMILTON L8P 0A6, ONTARIO, CANADA, Canada ~72: ALMASI, Shekoufeh;FORBES, John R.;GAYATHRI, Vishal Subramony;THÉRIAULT, Brigitte Lise~ 33:US ~31:63/496,279 ~32:14/04/2023

2025/09672 ~ Complete ~54:QUICK CONNECT MECHANISM FOR MOUNTING OF MEDICAL INSTRUMENTS ~71:ACIST Medical Systems, Inc., 7905 Fuller Road, EDEN PRAIRIE 55344, MA, USA, United States of America ~72: LEHRKE, Jacob Ryan~ 33:US ~31:18/339,589 ~32:22/06/2023

2025/09674 ~ Complete ~54:PISTON OF A MEMBRANE FILTRATION SYSTEM ~71:SALINITY SOLUTIONS LTD, Tyseley Energy Park, Fordrough, Yardley, United Kingdom ~72: BURLACE, Liam;DAVIES, Philip;NAUGHTON, Timothy~ 33:GB ~31:2305564.3 ~32:14/04/2023

2025/09676 ~ Complete ~54:POWER SYSTEM AND VEHICLE ~71:CHERY AUTOMOBILE CO., LTD., No. 8, Changchun Road, Economy & Technology Development Zone, Wuhu, 241006, Anhui, People's Republic of China ~72: HENGXIAN ZHANG;SHUANGLUAN LI;WANGFEI YAO;YING ZHOU;ZHONGXIN SUN~ 33:CN ~31:202410646385.2 ~32:23/05/2024

2025/09683 ~ Complete ~54:ELECTRIC DRIVE ANTI-JERK CONTROL METHOD AND MODULE, VEHICLE, AND COMPUTER STORAGE MEDIUM ~71:CHERY AUTOMOBILE CO., LTD., No. 8, Changchun Road, Economy & Technology Development Zone, Wuhu, 241006, Anhui, People's Republic of China ~72: CHONGGUANG ZHOU;CHONGXIANG MO;GUOXIAN ZU;HUANYING ZHOU;KEGUANG QI~ 33:CN ~31:202410870595.X ~32:01/07/2024

2025/09688 ~ Provisional ~54:SYSTEM AND METHOD FOR REAL-TIME TOKEN RELAY VERIFICATION OF PATIENT PRESENCE AND FRAUD-RESISTANT CLAIMS PROCESSING IN HEALTHCARE ~71:Letlhogonolo Mathe, 4468 Block B Mabopane, Mabopane Unit B, South Africa ~72: Letlhogonolo Mathe~

2025/09622 ~ Provisional ~54:WORKIFY: ADAPTIVE DIGITAL ONBOARDING, WORKFLOW AUTOMATION, MAP-BASED MATCHING, AND PRODUCTIVITY TRACKING PLATFORM ~71:Khayelihle Moyo, House number 14 Knights Avenue, Windsor west, Randburg, South Africa ~72: Khayelihle Moyo~

2025/09631 ~ Complete ~54:SMART HERB NUTRIENT IDENTIFIER ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsdan, Jalandhar, Punjab, 144008, India;CT University School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India ~72: Dr. Daisy Sharma;Dr. Nitin Tandon;Dr. Sanjana Bhatia;Dr. Satvir Singh;Dr. Vir Vikram;Dr. Inderpal Singh;Ms. Poonam Bhalla~

2025/09642 ~ Complete ~54:BLOCKCHAIN-BASED SYSTEM AND METHOD FOR MONITORING AND PREVENTING ILLICIT DRUG COUNTERFEITING ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsdan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Abhilash Thakur;Dr. Nitin Tandon;Dr. Vaneet Kumar;Dr. Inderpal Singh;Mr. Akshay Kumar;Mr. Jitendra Chaudhary;Ms. Apurva Lomsh~

2025/09657 ~ Complete ~54:INTELLIGENT RESPONSIVE POLYMER GEL FOR SEALING GAS CHANNELING IN CO2 FLOODING AND PREPARATION METHOD AND APPLICATION THEREOF ~71:China University of Petroleum (East China), No. 66, Changjiang West Road, Huangdao District, Qingdao City, Shandong Province, 266580, People's Republic of China ~72: DAI, Caili;LI, Lin;MA, Zhenfeng;MENG, Xiangjuan;WU, Yining;XIE, Yuxin;XU, Xinjie;XU, Zhongzheng;ZHANG, Huan;ZHAO, Mingwei~

2025/09664 ~ Complete ~54:ANTI-CDH6 ANTIBODY-DRUG CONJUGATE AND USE THEREOF ~71:HAINAN SIMCERE ZAIMING PHARMACEUTICAL CO., LTD., NO. 20, YAOGU YIHENG ROAD, XIUYING DISTRICT, HAIKOU, HAINAN 570311, CHINA, People's Republic of China ~72: CHAI, Xiaojuan;FU, Yayuan;LI, Zhen;TANG, Renhong;WEI, Menghao~ 33:CN ~31:202310420429.5 ~32:14/04/2023

2025/09678 ~ Complete ~54:METHOD AND APPARATUS FOR CONTROLLING VEHICLE, ELECTRONIC DEVICE, AND STORAGE MEDIUM ~71:CHERY AUTOMOBILE CO., LTD., No. 8, Changchun Road, Economy & Technology Development Zone, Wuhu, 241006, Anhui, People's Republic of China ~72: FENG JIANG;JIANWEI SUN;SHANSHAN WU~ 33:CN ~31:202411043590.6 ~32:31/07/2024

2025/09623 ~ Provisional ~54:TOOL HOLDER ~71:JACOBUS DANIEL STEYN, 106 van Heerden Street, Mokopane, Limpopo, South Africa ~72: JACOBUS DANIEL STEYN~

2025/09628 ~ Complete ~54:BLOOD PRESSURE-LOWERING TURTLE JELLY WITH INULIN AS STABILIZER AND PREPARATION METHOD THEREOF ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: BAO Chunxiang;LI Peixuan;LU Tie;WANG Fumei;XIE Zhaohui;YANG Yujia;YAO Ruoxiang~

2025/09644 ~ Complete ~54:AI-CONTROLLED DRUG DISPENSER ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Near Ludhiana, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Amandeep Kaur Gill;Dr. Nitin Tandon;Dr. Satvir Singh;Er.Mamta Devi;Mr. Bhuvan Puri;Mr. Rohit Kumar;Ms. Sumanpreet Kaur~

2025/09652 ~ Complete ~54:SMART DRUG DELIVERY FOR ENHANCED THERAPEUTIC EFFECTS ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Anurag Sharma;Dr. Gagandeep Kaur;Dr. Nitin Tandon;Dr. Rupali Dhir;Mr. Amir Raza;Mr. Kaunava Roy Chowdhury;Ms. Shalini Bohra~

2025/09654 ~ Complete ~54:FIXED DEVICE FOR NUCLEAR MEDICINE BRAIN METABOLISM IMAGING ~71:THE FIRST AFFILIATED HOSPITAL OF ZHENGZHOU UNIVERSITY, NO.1 JIANSHE EAST ROAD, ERQI DISTRICT, ZHENGZHOU CITY, People's Republic of China ~72: XU, Shasha;ZHOU, Kaikai~ 33:CN ~31:202510029077X ~32:08/01/2025

2025/09655 ~ Complete ~54:STABLE OPERATION MONITORING CABINET FOR POWER SYSTEM ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: LIU, Jinhua;XIAO, Chuncai;ZHANG, Bao;ZHU, Xuexuan~ 33:CN ~31:2025106290877 ~32:16/05/2025

2025/09656 ~ Complete ~54:METHODS OF REDUCING THE RISK OF HEART FAILURE ~71:AMARIN PHARMACEUTICALS IRELAND LIMITED, 88 Harcourt Street, Dublin 2, Dublin, D02DK18, Ireland ~72: PARESH SONI~ 33:US ~31:63/177,723 ~32:21/04/2021

2025/09658 ~ Complete ~54:A COMPOSITION FOR TREATING SKIN AGING AND ITS METHOD OF USE ~71:Guangzhou Dermatology Hospital (Guangzhou Center for Skin Diseases and STI Control and Prevention), 56 Hengfu Road, Guangzhou, Guangdong Province, People's Republic of China ~72: Li Huaping;Zhang Luoyu;Zhu Huilan~ 33:CN ~31:202511029938.0 ~32:25/07/2025

2025/09675 ~ Complete ~54:HYDRAULIC SYSTEM AND AUTOMOBILE ~71:CHERY AUTOMOBILE CO., LTD., No. 8, Changchun Road, Economy & Technology Development Zone, Wuhu, 241006, Anhui, People's Republic of China ~72: HENGXIAN ZHANG;SHUANGLUAN LI;WANGFEI YAO;YING ZHOU;ZHIGUANG ZHOU~ 33:CN ~31:202420869501.2 ~32:24/04/2024

2025/09681 ~ Complete ~54:FRONT FLOOR REINFORCEMENT BEAM STRUCTURE FOR NEW-ENERGY VEHICLE AND MOUNTING METHOD ~71:CHERY AUTOMOBILE CO., LTD., No. 8, Changchun Road, Economy & Technology Development Zone, Wuhu, 241006, Anhui, People's Republic of China ~72: FANLIANG MENG;HUAPENG WU;KAI CHENG;LILI LIU;TING YAN~ 33:CN ~31:202410871893.0 ~32:01/07/2024

2025/09686 ~ Complete ~54:MAGNETIC AXIAL FLUX MOTOR COMPRISING PERMANENT MAGNETS ~71:IREDEHEAT SOLUTIONS S.L., C/ Canteras, 4 Chapinería, Spain ~72: JASKIEWICZ, Witold~ 33:ES ~31:P202330443 ~32:01/06/2023

2025/09629 ~ Complete ~54:MULTI-CHANNEL HEAT EXCHANGE SYSTEM WITH TEMPERATURE SENSING NETWORK ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: DUAN Kunjie;HENG Lijun;JIN Junjie~

2025/09635 ~ Complete ~54:DEVICES THAT RELEASE DRUGS WHEN TRIGGERED BY EXTERNAL ELECTRICAL STIMULI ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Anurag Sharma;Dr. Arvind Kumar;Dr. Nitin Tandon;Dr. Sharuti Mehta;Dr. Shipra;Dr. Yogendra Pal;Mr. Sukhdayal Dhanday~

2025/09639 ~ Complete ~54:SMART SYSTEM FOR IDENTIFICATION OF DISEASES FROM SLEEP PATTERN ANALYSIS BASED ON AYURVEDIC PRINCIPLES ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India ~72: Dr. Lakhvir Kaur;Dr. Nitin Tandon;Dr. Satvir Singh;Ms. Poonam Bhalla;Ms. Priyanka;Ms. Seema Sharma;Ms.Pooja Marwaha~

2025/09643 ~ Complete ~54:SMART SYSTEM FOR IMAGE-BASED IDENTIFICATION AND MONITORING OF SCALP DISEASES ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India ~72: Dr. Nitin Tandon;Dr. Satvir Singh;Dr. Shahid Ud Din Wani;Dr. Shipra;Er.Ramandeep Kaur;Ms. Shilpi Dhir;Ms. Zeenat Parveen~

2025/09647 ~ Complete ~54:PH-SENSITIVE DRUG CARRIERS – NANO- FORMULATIONS THAT RELEASE MEDICATION ONLY IN SPECIFIC PH ENVIRONMENTS ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab,

144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India ~72: Dr. Anurag Sharma;Dr. Nitin Tandon;Dr. Sanjana Bhatia;Dr. Satvir Singh;Dr. Vir Vikram;Mr. Bhuvan Puri;Mr. Sahilpreet Singh~

2025/09648 ~ Complete ~54:AI-POWERED DRUG RESPONSE PREDICTION – MACHINE LEARNING FOR PERSONALIZED MEDICINE ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Ankita Gupta;Dr. Anurag Sharma;Dr. Dilpreet Singh;Dr. Mandeep Kaur;Dr. Nitin Tandon;Ms. Jyotika Rani;Ms. Samriti Bhardwaj~

2025/09649 ~ Complete ~54:BLOCKCHAIN-BASED SYSTEM AND METHOD FOR PREVENTING AND MONITORING ILLICIT DRUG TRAFFICKING ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan kurd, Punjab, 142024, India ~72: Dr. Mandeep Kaur;Dr. Nitin Tandon;Dr. Vir Vikram;Dr. Yogendra Pal;Dr.Gagandeep Singh;Ms. Ashima Chandel;Ms. Monika Gharu~

2025/09641 ~ Complete ~54:SMART SYSTEM FOR IDENTIFICATION OF ELEVATED PARABEN LEVELS IN SHAMPOO COMPOSITIONS ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Anurag Sharma;Dr. Lakhvir Kaur;Dr. Mandeep Kaur;Dr. Nitin Tandon;Dr. Simarjeet Kaur;Ms. Poonam Bhalla;Ms. Sumanpreet Kaur~

2025/09650 ~ Complete ~54:GUT MICROBIOME-TARGETED PROBIOTICS – PERSONALIZED PROBIOTIC FORMULATIONS FOR ENHANCED DRUG ABSORPTION ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Anurag Sharma;Dr. Jaswinder Kaur;Dr. Nitin Tandon;Dr. Rupali Dhir;Ms. Nitika Saini;Ms. Preet Kaur;Ms. Priyakshi Rana~

2025/09660 ~ Complete ~54:GAMMA SOURCE TERM MEASURING DEVICE BASED ON HIGH-PURITY GERMANIUM DETECTOR ~71:Anqing Normal University, No. 128, Linghu South Road, Anqing City, 246000, People's Republic of China ~72: LI Shurong;WANG Weidong;WANG Yingli;WU Yiheng~
33:CN ~31:2024106004669 ~32:15/05/2024

2025/09663 ~ Complete ~54:COAL MINE GAS INSPECTION TASK GENERATION AND DISTRIBUTION METHOD AND APPARATUS ~71:NORTH CHINA INSTITUTE OF SCIENCE AND TECHNOLOGY NATIONAL SAFETY TRAINING CENTER OF COAL MINES, No.368 North Shimen Road, Wulituo Nangong Station

Shijingshan District, Beijing, 100022, People's Republic of China ~72: CHEN, Guangjin;CHEN, Liang;CHENG, Zhiheng;CUI, Guibo;CUI, Yongguo;DU, Feng;GUO, Kai;JIANG, Yanjun;LI, Meichen;LIU, Shiwei;QIN, Hongyan;SI, Junhong;SUN, Xiaoyan;XUE, Ao;YANG, Tao;YANG, Zhengkai;ZHANG, Hongtu;ZHANG, Jian;ZHANG, Jinhu;ZHANG, Zhenli;ZHAO, Zhechen~ 33:CN ~31:2023105584751 ~32:18/05/2023

2025/09666 ~ Complete ~54:TRANSFER DEVICE ~71:PULPEX LIMITED, Unit 1, Cambridge South, West Way, United Kingdom ~72: BEDENBAUGH, Jason Carroll;JOHNSTON, Roger Thomas~ 33:GB ~31:2309869.2 ~32:29/06/2023

2025/09679 ~ Complete ~54:SYSTEM AND METHOD FOR CONTROLLING SAFE POWER SUPPLY OF RANGE-EXTENDED ELECTRIC VEHICLE ~71:CHERY AUTOMOBILE CO., LTD., No. 8, Changchun Road, Economy & Technology Development Zone, Wuhu, 241006, Anhui, People's Republic of China ~72: BIBO ZHANG;DONGYUN GE;JIANAN WANG~ 33:CN ~31:202410838761.8 ~32:26/06/2024

2025/09682 ~ Complete ~54:METHOD AND APPARATUS FOR CONTROLLING VEHICLE, AND STORAGE MEDIUM ~71:CHERY AUTOMOBILE CO., LTD., No. 8, Changchun Road, Economy & Technology Development Zone, Wuhu, 241006, Anhui, People's Republic of China ~72: KEGUANG QI;XIANGTING DAI;ZHEN CHEN;ZHIMING ZHU~ 33:CN ~31:202410878490.9 ~32:02/07/2024

2025/09684 ~ Complete ~54:SYSTEMS AND METHODS FOR SEQUENCING OF CELL-FREE RNA ~71:THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Building 170, Third Floor, Main Quad P.O. Box 20386, Stanford, California, 94305-2038, United States of America ~72: ARASH ASH ALIZADEH;BOGDAN LUCA;MAXIMILIAN DIEHN;MONICA NESSELBUSH~ 33:US ~31:63/502,368 ~32:15/05/2023

2025/09659 ~ Complete ~54:AN ANTIOXIDANT SKIN CARE SYSTEM ~71:Guangzhou Dermatology Hospital (Guangzhou Center for Skin Diseases and STI Control and Prevention), 56 Hengfu Road, Guangzhou, Guangdong Province, People's Republic of China ~72: Li Huaping;Zhang Luoyu;Zhu Huilan~ 33:CN ~31:202511040620.2 ~32:28/07/2025

2025/09625 ~ Provisional ~54:A SYSTEM AND METHOD FOR AUTOMATED CHARITABLE TOKEN ALLOCATION ~71:SURVEYA GLOBAL (PTY) LTD, 2 Bruton Road, Nicol on Main, Block A, South Africa ~72: KOLBE, Tandi~

2025/09632 ~ Complete ~54:SMART COGNITIVE AND BEHAVIORAL TESTING SYSTEM FOR EARLY IDENTIFICATION OF DOWN SYNDROME IN INFANTS AND CHILDREN ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India ~72: Dr. Gagandeep Kaur;Dr. Nitin Tandon;Dr. Satvir Singh;Dr. Shipra;Er.Karuna;Mr. Amritpal Singh;Ms. Jyotika Rani~

2025/09645 ~ Complete ~54:SMART SYSTEM FOR IDENTIFICATION OF BREAST PROBLEMS USING IMAGING ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Near Ludhiana, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan

Khurd, Punjab, 142024, India ~72: Dr. Arvind Kumar;Dr. Jaswinder Kaur;Dr. Nitin Tandon;Ms. Ashima Chandel;Ms. Shilpi Dhir;Ms. Vishakha Devi;Ms.Simranjeet~

2025/09651 ~ Complete ~54:3D-PRINTED PERSONALIZED MEDICINE: CUSTOM DRUG COMBINATIONS FOR PRECISION DOSING AND CONTROLLED RELEASE ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Anurag Sharma;Dr. Nitin Tandon;Dr. Satvir Singh;Mr. Rajesh Gautam;Ms. Harnoor Kaur;Ms. Preeti;Ms. Shilpi Dhir~

2025/09661 ~ Complete ~54:CRYSTALLINE COMPLEXES BETWEEN VELAGLIFLOZIN AND SELECTED CO-CRYSTAL FORMING AGENTS, METHODS FOR THEIR PREPARATION AND THE USE THEREOF FOR PREPARING MEDICAMENTS ~71:BOEHRINGER INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany ~72: BOEHM, Alexander;MENEGOTTO, Jerome;TAILLEZ, Franck;WERTHMANN, Ulrike~ 33:EP ~31:23169467.0 ~32:24/04/2023

2025/09671 ~ Complete ~54:T CELL ENGAGER MASKING MOLECULES ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: ACKER, Tim;CONNER, Kip;ROCK, Dan;THINN, Aye Myat;UMEDA, Aiko~ 33:US ~31:63/508,265 ~32:14/06/2023;33:US ~31:63/647,855 ~32:15/05/2024

2025/09685 ~ Complete ~54:PLANT DWARFING MUTATION ~71:PURDUE RESEARCH FOUNDATION, 101 Foundry Drive, Suite 2500 West Lafayette, Indiana 47906, United States of America ~72: AKANKSHA SINGH;GURMUKH S JOHAL;RAJDEEP SINGH KHANGURA~ 33:US ~31:63/459,374 ~32:14/04/2023

- APPLIED ON 2025/11/14 -

2025/09700 ~ Provisional ~54:DYNAMIC PROMOTIONAL SCREEN AND EYE TRACKING ~71:Mbavhalelo Mabogo, 7 Cunonia Street, South Africa ~72: Mbavhalelo Mabogo~ 33:ZA ~31:01 ~32:03/11/2025

2025/09722 ~ Complete ~54:HOUSING ASSEMBLY, MOVABLE ENERGY AND STORAGE APPARATUS, AND ENERGY STORAGE SYSTEM ~71:SHENZHEN HITHIUM HERO ENERGY EQUITY TECHNOLOGY CO., LTD., Room 601, No. 2 R&D Building, Sanyiyundu, No. 6, Lanqing Second Road, Luhui Community, Guanhu Street, People's Republic of China;XIAMEN HITHIUM ENERGY STORAGE TECHNOLOGY CO., LTD., No.1, Benyuan Road, Tongxiang High-Tech City, Torch High-Tech Zone, People's Republic of China ~72: DAI, Wei;HUANG, Shuisheng~ 33:CN ~31:CN202411640425.9 ~32:15/11/2024

2025/09724 ~ Complete ~54:RECONSTITUTABLE DRY POWDER FORMULATIONS AND METHODS OF USE THEREOF ~71:SANOPI PASTEUR INC., 1 Discovery Drive, Swiftwater, United States of America ~72: KARVE, Shrirang;PATEL, Priyal;SARODE, Ashish~ 33:EP ~31:23305580.5 ~32:17/04/2023

2025/09731 ~ Complete ~54:FORKLIFT MAST WELDING SYSTEM ~71:HANGZHOU FORKLIFT MAST CO., LTD., No.666 Xiangfu Road, Qingshanhu Street, Lin'an District, Hangzhou, Zhejiang 311300, People's Republic of China ~72: FOTANG HU;FULAI XUE;LIANG DING;QUANJUN DUAN;ZHENGBO XU~ 33:CN ~31:202511202157.7 ~32:26/08/2025

2025/09738 ~ Complete ~54:FLUID FILTER FOR A MOTOR VEHICLE AND FILTER CARTRIDGE AND ALSO COVER ELEMENT FOR A FLUID FILTER OF THIS KIND ~71:DAIMLER TRUCK AG, Fasanenweg 10 70771, Germany ~72: SCHUMACHER, Eric~ 33:DE ~31:10 2023 112 648.2 ~32:12/05/2023

2025/09699 ~ Provisional ~54:DIVORCE DNA ~71:NQOBILE NICHOLUS MIRACLES MABENA, 1631 ANGLO GOLD AVENUE GROOTVLEI ESTATE SPRINGS, South Africa ~72: NQOBILE NICHOLUS MIRACLES MABENA~

2025/09696 ~ Provisional ~54:SEMCRIID ENCRYPTION-AS-KEY METHOD — IMPLEMENTABLE TRANSFORMATIONS FOR USING TENANT-SPECIFIC EMBEDDING MODELS AS CRYPTOGRAPHIC KEYS ~71:Gustav Retief Kruger, 36 Coral Street, South Africa ~72: Gustav Retief Kruger~

2025/09698 ~ Provisional ~54:SYSTEM AND METHOD FOR UTILISING THE SQUARE KM ~71:Stapleton Zonolo Bosealetse, 05 Botes Avenue, South Africa ~72: Stapleton Zonolo Bosealetse~ 33:ZA ~31:1 ~32:13/11/2025

2025/09727 ~ Complete ~54:TRANSFER DEVICE ~71:PULPEX LIMITED, Unit 1, Cambridge South, West Way, United Kingdom ~72: BEESLEY, Robert Cecil~ 33:GB ~31:2309880.9 ~32:29/06/2023

2025/09735 ~ Complete ~54:CONJUGATES COMPRISING CLEAVABLE LINKERS ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: BARTOLO, Nicole Danielle;GOUNDRY, William Robert Fraser;KHAN, Akbar Husain;LEE, Maximillian Taro William;MADERNA, Andreas Lothar Severino~ 33:US ~31:63/496,709 ~32:18/04/2023

2025/09694 ~ Provisional ~54:POLICY-BASED KEY DERIVATION, SELECTIVE ACCESS, AND DUAL-MODE CUSTODIAL / STATELESS ENCRYPTION WITH TENANT-SEEDED VECTOR SEARCH ~71:Gustav Retief Kruger, 36 Coral Street, South Africa ~72: Gustav Retief Kruger~

2025/09706 ~ Complete ~54:DRUG TRACEABILITY BLOCKCHAIN SYSTEM FOR SECURE TRACKING FROM PRODUCTION TO DISPENSATION ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Ankita;Dr. Ankita Gupta;Dr. Dilpreet Singh;Dr. Nitin Tandon;Dr. Sanjana Bhatia;Dr. Inderpal Singh;Ms. Neelam Kumari~

2025/09718 ~ Complete ~54:A SYSTEM AND METHOD FOR THE DEEP INTEGRATION AND INNOVATION OF TECHNOLOGY AND INDUSTRY ~71:Chongqing Bayu Technology Innovation Center Co., Ltd., No. 10, Yanhe West Road, Chenjiaqiao Sub-district, Shapingba District, Chongqing City, 401300, People's Republic of China;RONG Tenghong, No. 10, Yanhe West Road, Chenjiaqiao Sub-district, Shapingba District, Chongqing City, 401300, People's Republic of China ~72: RONG Tenghong;SHI Pengcheng;YANG Tingzhang~

2025/09728 ~ Complete ~54:STAGGERED MINING METHOD UNDER PRE-SUPPORT CONDITIONS AND ITS APPLICATION ~71:CHANGSHA INSTITUTE OF MINING RESEARCH CO., LTD, No.343 Lushan South Road, Yuelu District Changsha, People's Republic of China ~72: LI, Xiaohui;LIN, Yuansheng;LIU, Qi;PENG, Yuejin;QIAN, Jing;REN, Qinglin;TANG, Mingdong;YAN, Lide;YANG, Ning;ZHONG, Zhouying~ 33:CN ~31:202510366646.X ~32:26/03/2025

2025/09734 ~ Complete ~54:CRYSTALLINE SALTS OR AMORPHOUS FORMS OF 2-((1H-PYRAZOL-3-YL)METHYL)-6-((6-AMINOPYRIDIN-2-YL)METHYL)-4-METHYL-4,6-DIHYDRO -5H-THIAZOLO[5',4':4,5]PYRROLO[2,3-D]PYRIDAZIN-5-ONE ~71:Agios Pharmaceuticals, Inc., 88 Sidney Street, CAMBRIDGE 02139, MA, USA, United States of America ~72: ANGELILLO, Karlie E.;FANDRICK, Daniel R.;GRENIER, Louis;LANE, Benjamin S.;LEE, Jaemoon;LEUNG, Cheuk-Yui;LI, Hui;SIMONE, Eric;SIZEMORE, Jacob P.~ 33:US ~31:63/466,552 ~32:15/05/2023

2025/09701 ~ Provisional ~54:ARTIFICIAL INTELLIGENCE PLATFORM FOR MULTI-MODAL MEDICAL DIAGNOSTICS ~71:RUDI KRUGER, 11 CREUX STREET, South Africa ~72: RUDI KRUGER;RUDI KRUGER~

2025/09709 ~ Complete ~54:ARTIFICIAL INTELLIGENCE SYSTEM AND METHOD FOR DATA-DRIVEN IDENTIFICATION, CLASSIFICATION, AND PREDICTION OF TRADEMARK SUITS ~71:CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Management and IT, Maqsudan, Jalandhar, Punjab, 144008, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Management Studies, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Ankita;Dr. Arvind Kumar;Dr. Davinder Kaur;Dr. Kamalpreet Kaur;Dr. Sangram Singh;Er. Ramandeep Kaur;Ms. Neeti~

2025/09719 ~ Complete ~54:RETAINING MEMBER ~71:MPACT LIMITED, 4th Floor, 3 Melrose Boulevard, Melrose Arch, Johannesburg, Gauteng, 2196, South Africa ~72: STEFAN HOFMEYR BOSHOF;WOUTER HUGO HEUNIS~ 33:ZA ~31:2024/06294 ~32:16/08/2024

2025/09730 ~ Complete ~54:WOOD DIGESTION PROCESS ~71:TECHNIKUM LAUBHOLZ GMBH, Bahnhofstraße 41 + 52, 73033, Göppingen, Germany ~72: WILLI KANTLEHNER~ 33:DE ~31:10 2023 111 457.3 ~32:03/05/2023

2025/09739 ~ Complete ~54:ENERGY-EFFICIENT POLYPROPYLENE PRODUCTION BY REDUCING POWER CONSUMPTION OF HEAT REJECTION SYSTEM ~71:LUMMUS NOVOLEN TECHNOLOGY GMBH, Gottlieb-Daimler-Strasse 8, Germany ~72: BANGERTH, Stefan;FRÜHBAUER, Martin;LANGNER, Ralf~ 33:EP ~31:23198364.4 ~32:19/09/2023

2025/09693 ~ Provisional ~54:SEMCRID-PASS FRAMEWORK FOR PROVENANCE, AUTHENTICITY, AND PUBLIC VERIFICATION OF ENCRYPTED AND AI-GENERATED CONTENT ~71:Gustav Retief Kruger, 36 Coral Street, South Africa ~72: Gustav Retief Kruger~

2025/09705 ~ Complete ~54:AI-POWERED PRESCRIPTION VERIFICATION SYSTEM FOR DETECTING ERRORS & DRUG INTERACTIONS ~71:CT College of Pharmacy, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Pharmaceutical Sciences, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Pharmaceutical Sciences, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Ankita Gupta;Dr. Daisy Sharma;Dr. Nitin Tandon;Dr. Satvir Singh;Dr. Shikha Thakur;Dr. Vir Vikram;Er.ramandeep Kaur~

2025/09708 ~ Complete ~54:PORTABLE SMART SYSTEM FOR REAL-TIME IDENTIFICATION OF ADULTERATED BUTTER ~71:CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Hospitality Management, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Management and IT, Maqsudan, Jalandhar, Punjab, 144008, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Hotel Management, Airlines and Tourism, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Ashish Raina;Dr. Gagandeep Singh;Dr. Sumant Sharma;Dr. Vaneet Kumar;Mr. Divoy Chhabra;Mr. Harinder Pal Singh;Mr. Pradip Kumar Yadava~

2025/09715 ~ Complete ~54:PCR IDENTIFICATION METHOD FOR THRYSSA DUSSUMIERI AND THRYSSA KAMMALENSIS ~71:CHINA JILIANG UNIVERSITY, No. 258, Xueyuan Street, Xiasha Higher Education Park, Qiantang District, Hangzhou City, People's Republic of China;MARINE FISHERIES RESEARCH INSTITUTE OF ZHEJIANG PROVINCE, No. 28, Sports Road, Lincheng Subdistrict, Dinghai District, Zhoushan City, People's

Republic of China;TECHNOLOGY CENTER OF ZHOUSHAN CUSTOMS DISTRICT, No. 555, Haijing Road, Lincheng Subdistrict, Dinghai District, Zhoushan City, People's Republic of China ~72: GUAN, Feng;HU, Xingjuan;JIANG, Rijin;SONG, Xiao;TENG, Yue;WU, Li;XU, Aichun;XU, Ting~

2025/09720 ~ Complete ~54:SPRING-POWERED CARTRIDGE FOR BARREL CLEANING ~71:REUBEN HENDRE LE ROUX, 15 Mountain Wakeley Street, Midlands Estate, Olifantsfontein, Gauteng, 1692, South Africa ~72: REUBEN HENDRE LE ROUX~

2025/09723 ~ Complete ~54:ENERGY OPTIMIZATION FOR LOAD PEAK SHAVING WITH MICROGRID CONTROL SYSTEMS ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: HASLER, Gregory Scott;NAGESH, Sowmya;OHLROGGE, Bradley Paul~ 33:US ~31:18/955,603 ~32:21/11/2024

2025/09737 ~ Complete ~54:SOIL ACTIVATOR ~71:Earth Alive Clean Technologies Inc., 1050 Côte du Beaver Hall, Suite 1560 H2Z 1S4, Canada ~72: NEUFELD, Simon;SAFINA, Gulnaz;TOUSSAINT, Claudia~ 33:EP ~31:23172940.1 ~32:11/05/2023

2025/09711 ~ Complete ~54:A RADIOTHERAPY MOLD FIXATION DEVICE ~71:The First Affiliated Hospital of Xinxiang Medical University, No. 88 Jiankang Road, Weihui City, Xinxiang City, Henan Province, People's Republic of China ~72: Huo Xiaoqing;Liu Bo;Pang Kehua;Wang Shouyu;Wang Wenpeng;Wang Xiaochun;Yang Jun~ 33:CN ~31:2025115652025 ~32:30/10/2025

2025/09713 ~ Complete ~54:BLOCKCHAIN-BASED SYSTEM FOR COMPLETING UNDER-CONSTRUCTION BUILDINGS WITH TRANSPARENT TRACKING AND AUTOMATED WORKFLOW ~71:CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Law, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Law, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Abhilash Thakur;Dr. Sewa Singh;Dr. Shiv Kumar;Dr. Simranjeet Kaur;Er. Davinder Singh;Mr. Harinder Pal Singh;Ms. Megha Middha~

2025/09721 ~ Complete ~54:PORTABLE ENERGY STORAGE APPARATUS AND ENERGY STORAGE SYSTEM ~71:SHENZHEN HITHIUM HERO ENERGY EQUITY TECHNOLOGY CO., LTD., Room 601, No. 2 R&D Building, Sanyiyundu, No. 6, Lanqing Second Road, Luhu Community, Guanhu Street, People's Republic of China;XIAMEN HITHIUM ENERGY STORAGE TECHNOLOGY CO., LTD., No.1, Benyuan Road, Tongxiang High-Tech City, Torch High-Tech Zone, People's Republic of China ~72: DAI, Wei~ 33:CN ~31:CN202411639589.X ~32:15/11/2024

2025/09726 ~ Complete ~54:NON-INVASIVE IN-VITRO METHOD OF DIAGNOSIS ~71:MEDICOVER BIOTECH LTD., Neas Egkomis, 31, Cyprus ~72: ACHILLEOS, Achilleas;ELIADES, Alexia;IOANNIDES, Marios;KOUMBARIS, George;KYPRI, Elena;LEMESIOS, Christos;LOIZIDES, Charalambos;PATSAIS, Philippos;TSANGARAS, Kyriakos~ 33:EP ~31:23174059.8 ~32:17/05/2023

2025/09703 ~ Provisional ~54:SYSTEM AND METHOD FOR COMPARATIVE WAGE-LINKED FINANCIAL ADVANTAGE VISUALIZATION AND SAVINGS DERIVATION ENGINE (C-WLFAV-SDE) ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: KABELO DIALE~

2025/09707 ~ Complete ~54:BLOCKCHAIN-BASED AUTOMATED CLAIMS PROCESSING SYSTEM WITH SMART CONTRACTS FOR INSURANCE REIMBURSEMENT ~71:CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Management and IT, Maqsudan, Jalandhar, Punjab, 144008, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab,

142024, India;CT University, School of Management Studies, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Ankita;Dr. Anurag Sharma;Dr. Davinder Kaur;Dr. Mandeep Kaur;Dr. Sadhna Chauhan;Dr. Sangram Singh;Mr. Pradip Kumar Yadava~

2025/09716 ~ Complete ~54:MACHINE LEARNING-BASED METHOD AND APPARATUS FOR SEAWATER TEMPERATURE MEASUREMENT ~71:Tianjin Research Institute for Water Transport Engineering, M.O.T., No.2618, No.2 Xingang Road, Binhai New Area, Tianjin, 300456, People's Republic of China ~72: FAN, Donghua;FANG, Xinyu;GAO, Ying;GONG, Shengsheng;LI, Mingliang;LIU, Xiaojian;LIU, Yanxiang;REN, Xifeng;SUI, Haichen;WANG, Hualuan;WANG, Yongquan;WEN, Xianhua;XIE, Jing;XING, Cunliang;ZHANG, Qian;ZHAO, Yang~ 33:CN ~31:202511552927.0 ~32:28/10/2025

2025/09732 ~ Complete ~54:OXYGEN EVOLUTION REACTION CATALYST AND METHOD FOR ITS PREPARATION ~71:Johnson Matthey Public Limited Company, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: PRITCHARD, Antony;SANTORO, Amedeo;SMART, Katharine;WARR, Antony;ZSCHIEGNER, Stephen~ 33:US ~31:63/503,974 ~32:24/05/2023;33:EP ~31:23187789.5 ~32:26/07/2023;33:EP ~31:23197878.4 ~32:18/09/2023

2025/09736 ~ Complete ~54:COMPOSITIONS AND METHODS FOR EPIGENETIC REGULATION OF HBV GENE EXPRESSION ~71:nChroma Bio, Inc., 201 Brookline Ave., Suite 1101, BOSTON 02215, MA, USA, United States of America ~72: ABUBUCKER, Noorussahar;ANGLERO-RODRIGUEZ, Yesseinia;CAPPELLUTI, Martino Alfredo;JAFFE, Aron Brandon;LOMBARDO, Angelo Leone;MYER, Vic~ 33:US ~31:63/502,325 ~32:15/05/2023;33:US ~31:63/516,096 ~32:27/07/2023;33:US ~31:63/581,236 ~32:07/09/2023

2025/09695 ~ Provisional ~54:SEMCRID ENDPOINT AGENT — ZERO-CUSTODY LOCAL ENCRYPTION, OFFLINE POLICY ENFORCEMENT, AND LEDGER-LINKED PROOF SYNCHRONIZATION ~71:Gustav Retief Kruger, 36 Coral Street, South Africa ~72: Gustav Retief Kruger~

2025/09697 ~ Provisional ~54:SEMCRID-NEXUS GRAPH SYSTEM — ENCRYPTED KNOWLEDGE-GRAPH REPRESENTATION FOR SECURE SEMANTIC REASONING ON ENCRYPTED DATA ~71:Gustav Retief Kruger, 36 Coral Street, South Africa ~72: Gustav Retief Kruger~

2025/09704 ~ Provisional ~54:PRIVACY-ENHANCING DUAL-FLOW TRUST ARCHITECTURE FOR REAL-TIME WORKFORCE CAPABILITY ACTIVATION AND ANONYMOUS CAPABILITY INTELLIGENCE ~71:Novitalis AG, Burg str 15, Switzerland ~72: Annelie Stapela~

2025/09710 ~ Complete ~54:CORE-SHELL STRUCTURED LITHIUM MANGANESE IRON PHOSPHATE CATHODE MATERIAL WITH "MANGANESE-RICH CORE AND IRON-RICH SHELL" AND PREPARATION METHOD THEREOF ~71:Kunming University of Science and Technology, Xuefu Road 253, Kunming City, Yunnan Province, 650000, People's Republic of China ~72: CAI Xiaolan;YANG Changjiang;YU Wenyi;ZHANG Yanjia;ZHOU Huangkai~

2025/09714 ~ Complete ~54:A CONSTANT-TEMPERATURE SAMPLE STORAGE DEVICE FOR DETERMINING THE CONTENT OF ACTIVE INGREDIENTS IN TRADITIONAL CHINESE MEDICINE ~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: Baishun Huang;Jinwei Qiao;Ming Cai;Qian Xu;Ruonan Xie;Shunwang Huang;Yun Huang~

2025/09717 ~ Complete ~54:METHOD OF AND SYSTEM FOR SUPPORTING AND GUIDING SALES AGENT BEHAVIOUR ~71:SUPER CELLUTIONS (PTY) LTD t/a IGNITE, First Floor Euro Centre, 363 Rivonia Boulevard, Rivonia, Sandton 2191, Gauteng, SOUTH AFRICA, South Africa ~72: BARRAS, Salvatore Diego;DE

CARVALHO, Nelson;FUTCHER, Bronwynn;JACOB, Ibrahim;KRUGER, Dawid Tobias;NENGOBELA, Philton;SINGH, Satish Kumar;STRIKE, Timothy Alan~ 33:ZA ~31:2024/09141 ~32:29/11/2024

2025/09725 ~ Complete ~54:PROPYLENE POLYMERS FOR THREE-DIMENSIONAL PRINTING ~71:LUMMUS NOVOLEN TECHNOLOGY GMBH, Gottlieb-Daimler-Strasse 8, Germany ~72: RAENTZSCH, Volker Andreas~ 33:EP ~31:23186527.0 ~32:19/07/2023

2025/09702 ~ Provisional ~54:MANUAL PUMP-ACTION FOOD COOLING DEVICE WITH INTEGRATED PROPELLER MECHANISM ~71:Ibongwe Funde, 89 Cawood Street, South Africa ~72: Ibongwe Funde~

2025/09712 ~ Complete ~54:METHOD FOR AUTHENTICITY VERIFICATION AND FAKE BRAND DETECTION ACROSS PRODUCTS AND MARKETS ~71:CT Institute of Engineering, Management & Technology, Shahpur, Jalandhar, Punjab, 144020, India;CT Institute of Management and IT, Maqsudan, Jalandhar, Punjab, 144008, India;CT Institute of Technology and Research, Maqsudan, Jalandhar, Punjab, 144008, India;CT University, School of Engineering and Technology, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India;CT University, School of Management Studies, Ferozpur Rd, Sidhwan Khurd, Punjab, 142024, India ~72: Dr. Anju Bala;Dr. Davinder Kaur;Dr. Inderpal Singh;Dr. Kamalpreet Kaur;Dr. Vaneet Kumar;Mr. Harinder Pal Singh;Mr. Pradip Kumar Yadava~

2025/09729 ~ Complete ~54:GASTRIC INHIBITORY PEPTIDE RECEPTOR LIGANDS WITH BIO-DISTRIBUTION MODIFIER ~71:3B PHARMACEUTICALS GMBH, Magnusstrasse 11, 12489, Berlin, Germany ~72: AILEEN HÖHNE;ANNE GÜRGEN;CHRISTIAN HAASE;CHRISTIANE SMERLING;DIRK ZBORALSKI;EBERHARD SCHNEIDER;FRANK OSTERKAMP;INA WILKENING;JAN UNGEWIß;ULRICH REINEKE~ 33:EP ~31:23169886.1 ~32:25/04/2023

2025/09733 ~ Complete ~54:APPARATUS FOR TORQUE TRANSMISSION ~71:Triskel Marine Limited, Unit 1 Marine Renewables Energy Park, North Quay, Hayle, TR27 4DD, CORNWALL, UNITED KINGDOM, United Kingdom ~72: CRAWFORD, Jason;LACK, Christopher~ 33:GB ~31:2307200.2 ~32:15/05/2023

- APPLIED ON 2025/11/17 -

2025/09777 ~ Complete ~54:MASS GENERATION OF CONTENT FOR EDUCATION APPLICATIONS ~71:ACAPEDIA, LLC, 20430 WESTFIELD COMMERCE DR., KATY, TEXAS, 77449, United States of America ~72: PASCIAK, ALEXANDER S~ 33:US ~31:63/459,995 ~32:17/04/2023

2025/09780 ~ Provisional ~54:CTRU COOLERBOX ~71:MAKHUNDULO STANLEY MSIZA, 990 TWEEFONTEIN, EXTENSION K, KWAMHLANGA, South Africa ~72: MAKHUNDULO STANLEY MSIZA~

2025/09782 ~ Provisional ~54:INSTANT ACCESS CREDIT FRAMEWORK (IACF): AUTOMATED MICRO-CREDIT PROCESSING ENGINE ~71:Kabelo Mosotho, 13 Cheetah Weg, South Africa ~72: Kabelo Mosotho;Mohale Mpesi~

2025/09743 ~ Provisional ~54:SMART BIOMIMETIC ALVEOLAR LININGS (S-BAL) ~71:Abdelmoumen Shad SERROUNE, N5 Sturdee Avenue, Suite 301, Johannesburg, Gauteng, 2196, South Africa ~72: Abdelmoumen Shad SERROUNE~

2025/09752 ~ Complete ~54:ENHANCED ADAPTIVE SPATIOTEMPORAL NETWORK (EASTN) AND MULTI-STAGE ATTENTION FUSION-BASED INTELLIGENT PREDICTION APPARATUS AND METHOD FOR DIGESTIVE DISEASE OUTPATIENT VOLUME AND HEALTH ECONOMIC BURDEN ~71:THE THIRD PEOPLE'S HOSPITAL OF CHENGDU, No. 82 Qinglong Street, Qingyang District, Chengdu City, Sichuan Province, 610031, People's Republic of China ~72: DUAN, Hui;HU, Ling;JIANG, Lin;LI, Jiao;LIU, Li;LIU, Li;LIU,

Yifeng;LUO, Qi;SHAN, Jing;SUN, Xiaobin;SUN, Zhongxin;WEI, Wen;WU, Liping;XI, Weidong;YANG, Mei;YANG, Run;ZHANG, Qian;ZHAO, Ming;ZHOU, Ling;ZHOU, Zhengkui~

2025/09762 ~ Complete ~54:FLOOR-STANDING PHOTOGRAPHIC DEVICE AND USE METHOD THEREOF
~71:Nanjing Vocational College of Information Technology, 99 Wenlan Road, Qixia District, Nanjing, Jiangsu, 210023, People's Republic of China ~72: HU, Yu~ 33:CN ~31:2025106722264 ~32:23/05/2025

2025/09771 ~ Complete ~54:METHODS AND APOE PHARMACEUTICAL COMPOSITIONS FOR THE TREATMENT AND THE PREVENTION OF ALZHEIMERS DISEASE ~71: Cornell University, 395 Pine Tree Road, Suite 310, ITHACA 14850, NY, USA, United States of America ~72: CRYSTAL, Ronald G.;GÜNAYDIN, Caner;KAMINSKY, Stephen M.;SONDHI, Dolan;STILES, Katie M.~ 33:US ~31:63/496,910
~32:18/04/2023;33:US ~31:63/592,123 ~32:20/10/2023;33:US ~31:63/592,469 ~32:23/10/2023

2025/09750 ~ Provisional ~54:IQEMBU LAMANZI ~71:Iqembu Lamanzi NPC, 1 Guppy street, Jackaroo, South Africa ~72: Iqembu Lamanzi~ 33:ZA ~31:1 ~32:16/11/2025

2025/09742 ~ Provisional ~54:FLIPBANK: AI-DRIVEN MOBILE VIRTUAL BANK ENABLING TELECOMMUNICATION ASSET MONETIZATION, FLIPNET CONVERSION, MERCHANT SETTLEMENT, AND PEGGED DIGITAL CURRENCY OPERATIONS ~71:Aubrey Modise, 192 Dube Street, South Africa ~72: Aubrey Modise~

2025/09755 ~ Complete ~54:PEST CONTROL ~71:INSECT SCIENCE (PTY) LTD, 9 Industria Street, New Industrial area, Tzaneen 0850, Limpopo Province, SOUTH AFRICA, South Africa ~72: BOOYSEN, Petrus Johannes Gerhardus;STEYN, Vernon Murray;VAN NIEKERK, John Peter~ 33:ZA ~31:2024/09369
~32:09/12/2024

2025/09761 ~ Complete ~54:DOUBLE PANORAMIC PANTILT AND PHOTOGRAPHIC EQUIPMENT BRACKET
~71:Nanjing Vocational College of Information Technology, 99 Wenlan Road, Qixia District, Nanjing, Jiangsu, 210023, People's Republic of China ~72: HU, Yu~ 33:CN ~31:202510496167X ~32:21/04/2025

2025/09772 ~ Complete ~54:DECODING DEVICE, ENCODING DEVICE, DECODING METHOD, AND ENCODING METHOD ~71:Panasonic Intellectual Property Corporation of America, 2050 W 190th Street, Suite 450, TORRANCE 90504, CA, USA, United States of America ~72: ABE, Kiyofumi;KARLEKAR, Jayashree;LIM, Chong Soon;LIM, Sugiri Pranata;NISHI, Takahiro;TEO, Han Boon;THONG, Jing Yuan;TOMA, Tadamas~ 33:US ~31:63/468,873 ~32:25/05/2023

2025/09767 ~ Complete ~54:COMPOSITIONS FOR PROLONGING THE SHELF LIFE OF A FOOD PRODUCT, PROCESS FOR PRODUCING THE COMPOSITIONS, USES THEREOF ~71:Agree NET S.r.l., Via Pietro Micca, 20, TORINO I-10122, ITALY, Italy ~72: FERIOLI, Stefano;GONZALEZ FLORES, Gustavo Adolfo;MASANTE, Irene~ 33:IT ~31:102023000010242 ~32:19/05/2023

2025/09740 ~ Provisional ~54:A SYSTEM AND METHOD FOR TRANSFORMING CONSUMER SPEND AND REPAYMENT BEHAVIOUR INTO EQUITY-BASED ECONOMIC PARTICIPATION ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/09741 ~ Provisional ~54:SOCRATES – INTEGRATED GLOBAL HEALTH MONITORING, TRIAGE AND MEDICATION SUPPORT FRAMEWORK. ~71:Buddy Hamedl, 5 scone palce, South Africa ~72: Buddy Hamedl~

2025/09744 ~ Provisional ~54:INFRARED OVEN FOR DRYING ORE SAMPLES ~71:LE ROUX, Francois Ahlers, 42 Camelia Complex, 2060 Wekker Road, Moreleta Park, South Africa;VAN DER MERWE, Willem Frits, 59 Dakota Road, Impala Park, South Africa ~72: LE ROUX, Francois Ahlers;VAN DER MERWE, Willem Frits~

2025/09747 ~ Provisional ~54:NAIRRO SDK (UNIVERSAL AUTHENTICATION & SECURITY PLATFORM)
~71:Delight Phefadu, 3 WF Nkomo Street, South Africa;Mogomotsi Boitse, 1027 Kutlwano Street, South Africa
~72: Delight Phefadu;Mogomotsi Boitse~

2025/09749 ~ Provisional ~54:REGULATOR-ALIGNED EXPLAINABILITY AND CRYPTOGRAPHIC DECISION-
PROVENANCE SYSTEM AND METHOD FOR AUTOMATED DECISION PROCESSES AFFECTING RIGHTS,
SAFETY, OR FINANCIAL OUTCOMES INDEPENDENT OF INTERNAL MODEL LOGIC ~71:Novitalis AG,
Burgstr 15, Switzerland ~72: Annelie Stapela~

2025/09753 ~ Complete ~54:DEVICE AND METHOD FOR DETECTING ACUPOINT TEMPERATURE IN
HUMAN BODY ~71:Anhui University of Chinese Medicine, No. 103 Meishan Road, Hefei City, Anhui Province,
230038, People's Republic of China ~72: Haiyan ZUO;Kun WANG;Meiqi ZHOU;Nenggui XU;Shengbing
WU;Shuai CUI;Xin WU~

2025/09758 ~ Complete ~54:INTELLIGENT STEREOSCOPIC PORT WAREHOUSING FACILITY ~71:CHINA
HARBOUR ENGINEERING COMPANY LIMITED, NO. 9, CHUNXIU ROAD, People's Republic of China ~72: HE,
Junbiao;LI, Chong;XU, Qingyun~

2025/09770 ~ Complete ~54:PACKAGING ITEM WITH FRAGRANCE DIFFUSOR AND PACKAGED FOOD
PRODUCT ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland
~72: GALAFFU, Nicola;MÜLLER, Peter;NIEDERREITER, Gerhard~ 33:DE ~31:20 2023 102 169.7
~32:24/04/2023

2025/09776 ~ Complete ~54:VIDEO ENCODING AND DECODING METHOD, ENCODER, DECODER AND
STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., NO. 18,
HAIBIN ROAD, WUSHA, CHANG'AN, DONGGUAN, GUANGDONG 523860, PEOPLE'S REPUBLIC OF CHINA,
People's Republic of China ~72: HUO, JUNYAN;LI, MING;MA, YANZHUO;QIAO, WENHAN;YANG, FUZHENG~

2025/09779 ~ Provisional ~54:ZIT NAVIGATOR FOR THE BLIND ~71:ARCHIMORE MONDLI KUBHERA, 7386
EXTENTION 3, South Africa ~72: ARCHIMORE MONDLI KUBHERA~

2025/09769 ~ Complete ~54:PACKAGING ITEM AND PACKAGED FOOD PRODUCT ~71:Société des Produits
Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BHATTACHARYA,
Abhijit;BUSSIEN, Gaël;GALAFFU, Nicola;JUKARAINEN, Jenni Irina;MÜLLER, Peter;NIEDERREITER,
Gerhard;PELLISSIER, Joachim;RAEDLER, Thomas~ 33:EP ~31:23169537.0 ~32:24/04/2023

2025/09775 ~ Complete ~54:COMPOUNDS AND FORMULATIONS USEFUL AS VACCINE ADJUVANTS
~71:Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States of America
~72: AHL, Patrick L.;MANLEY, Peter J.;RAHEEM, Izzat T.;SEGANISH, W. Michael;SMITH, William J.~
33:US ~31:63/503,015 ~32:18/05/2023

2025/09781 ~ Provisional ~54:SEALTRACK: UNIFIED DOMESTIC SERVICES CUSTODY & VERIFICATION
SYSTEM ~71:Alpheus Oupa Kgapola, 5062 Rev Selamolela Street, Mamelodi West, South Africa ~72: Alpheus
Oupa Kgapola~

2025/09783 ~ Provisional ~54:DATA SOS: PEER-TO-PEER MOBILE DATA RECOVERY AND EMERGENCY
SHARING SYSTEM ~71:Neo Sibeko, 185 Stellenberg Rd, Equestria, South Africa ~72: Neo Sibeko~

2025/09751 ~ Complete ~54:LOW-ALKALI FLOTATION METHOD FOR ARSENIC-BEARING COPPER SULFIDE
ORE BASED ON SELECTIVE OXIDATION ~71:Kunming University of Science and Technology, No.68

Wenchang Road, 121 Avenue, Kunming City, Yunnan Province, People's Republic of China ~72: Changtao WANG; Chuandong ZHAO; Qiang SONG; Qilin ZHAI; Xian XIE; Yangsheng CAI; Yiran MA~

2025/09760 ~ Complete ~54: HANDHELD CHINESE PRICKLY ASH PICKING MACHINE ~71: SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES, No.19, Sangyuan Road, Licheng District, Jinan City, People's Republic of China ~72: Huawei YANG; Qiangji PENG; Shucheng WANG; Wei LIU; Xuzhen LU; Zhongkai CUI~ 33:CN ~31:2025104067441 ~32:02/04/2025

2025/09774 ~ Complete ~54: COMPOUNDS AND ADJUVANT FORMULATIONS USEFUL IN PNEUMOCOCCAL VACCINES ~71: Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States of America ~72: AHL, Patrick L.; MANLEY, Peter J.; RAHEEM, Izzat T.; SEGANISH, W. Michael; SMITH, William J.~ 33:US ~31:63/503,021 ~32:18/05/2023

2025/09754 ~ Complete ~54: ARTIFICIAL INTELLIGENCE-EQUIPPED LOGISTICS SORTING ROBOT ~71: SHANGHAI MARITIME UNIVERSITY, 1550 Haigang Avenue, Lingang Xincheng, Pudong New Area, Shanghai, 201306, People's Republic of China ~72: JIA Ziran; LIU Guanming; WANG Xurui; XU Yuantao; ZANG Zhaoliang~ 33:CN ~31:2025114010420 ~32:28/09/2025

2025/09763 ~ Complete ~54: A PINE NEEDLE ESSENTIAL OIL ADDITIVE FOR BROUSSONETIA PAPYRIFERA SILAGE FERMENTATION AND PREPARATION METHOD AND APPLICATION THEREOF ~71: Shihezi University, No. 221, North 4th Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: DENG Qingyuan; FU Dongqing; JI Yingli; LIU Yuhang; MA Chunhui; SUN Guojun; SUN Yingchao; ZHANG Fanfan; ZHENG Xiaokai~

2025/09778 ~ Provisional ~54: ZIT AIR SENTINEL-AI+IOT AIR QUALITY AND EMISSION DETECTION SYSTEM ~71: ARCHIMORE MONDLI KUBHERA, 7386 EXTENTION 3, South Africa ~72: ARCHIMORE MONDLI KUBHERA~

2025/09745 ~ Provisional ~54: COMMUNICATION SYSTEM AND METHOD ~71: QWEZY (PTY) LTD, 323 NKANYISWENI RD, ADAMS MISSION, South Africa ~72: LINDANI HOPEWELL MTETWA~

2025/09746 ~ Provisional ~54: A SYSTEM AND METHOD FOR A SOVEREIGN, QUANTUM-SECURE, MULTI-PILLAR DIGITAL TRUST ARCHITECTURE FOR IDENTITY, FINANCIAL INTEGRITY, TELECOMMUNICATION, REGULATORY, TRADE, AND ETHICAL AI GOVERNANCE ~71: EARTHENICAL GLOBAL UNIVERSAL (PVT) LTD, Office 609 St Barbara House, Cnr Nelson Mandela and Leopold Takawira, Zimbabwe ~72: CHIRENGA, Tinashé~

2025/09764 ~ Complete ~54: T CELL RECEPTORS THAT BIND PRESENTED HPV16-, MART1-, CMV-, EBV-, OR INFLUENZA- PEPTIDES ~71: REGENERON PHARMACEUTICALS, INC., Corporation New York, 777 Old Saw Mill River Road, United States of America ~72: BLUMENBERG, Lili; DEERING, Raquel; HANSEN, Johanna; JEONG, Se; LI, Lianjie; POURPE, Stephane; THURSTON, Gavin~ 33:US ~31:63/504,425 ~32:25/05/2023; 33:US ~31:63/579,554 ~32:30/08/2023

2025/09766 ~ Complete ~54: A SYSTEM FOR ENABLING ARTIFICIAL CULTIVATION OF AZOLLA AND A METHOD THEREOF ~71: AWSTIKA DAS, 9/3/1, Bijoygarh, Jadavpur, Kolkata, West Bengal, 700032, India; SOURYADEEP BASAK, DC/2, Sasribagan, Deshbandhunagar, North 24 Parganas, Kolkata, West Bengal, 700059, India ~72: SOURYADEEP BASAK~ 33:IN ~31:202331018679 ~32:19/05/2023

2025/09756 ~ Complete ~54: A PRECISION DISPENSING AND STORAGE DEVICE FOR STANDARD SOLUTIONS USED IN TRADITIONAL CHINESE MEDICINE CONTENT DETERMINATION ~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: Baishun Huang;Jinwei Qiao;Ming Cai;Qian Xu;Ruonan Xie;Shunwang Huang;Yun Huang~

2025/09759 ~ Complete ~54:OOCYTE COLLECTION KIT FOR IN VIVO OOCYTE RETRIEVAL ~71:SHANDONG OX LIVESTOCK BREEDING CO., LTD., 22151 Gong Ye Bei Road, Jinan, People's Republic of China ~72: GAO, Yundong;HAN, Yusong;LIU, Weijia;MA, Qingtao;WANG, Lingling;ZHANG, Yan~ 33:CN ~31:2024231849875 ~32:23/12/2024

2025/09748 ~ Provisional ~54:SYSTEM AND METHOD FOR VERIFIED EMPLOYER-TO-PLATFORM WAGE DATA PIPELINING WITH CRYPTOGRAPHIC ATTESTATION, CANONICAL WAGE TRANSFORMATION, AND CLOSED WAGE→INDEX→FINANCE FEEDBACK LOOPS ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: KABELO DIALE~

2025/09757 ~ Complete ~54:EVALUATION METHOD FOR EXISTING PORT INTELLIGENCE DEGREE ~71:CHINA HARBOUR ENGINEERING COMPANY LIMITED, NO. 9, CHUNXIU ROAD, People's Republic of China ~72: HE, Junbiao;LI, Chong;XU, Qingyun~

2025/09765 ~ Complete ~54:BUNG PLUG, BUNG PLUG ARRANGEMENT, BUNGHOLE CONTAINER, BUNGHOLE CONTAINER CLOSURE AND INTERMEDIATE BULK CONTAINER ~71:PROTECHNA S.A., Avenue de la Gare 14, Switzerland ~72: KLATT, Bernd~ 33:DE ~31:10 2023 111 092.6 ~32:28/04/2023

2025/09768 ~ Complete ~54:PACKAGING ITEM AND PACKAGED FOOD PRODUCT ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BHATTACHARYA, Abhijit;GALAFFU, Nicola;JUKARAINEN, Jenni Irina;MÜLLER, Peter;NIEDERREITER, Gerhard;RAEDLER, Thomas~ 33:EP ~31:23169528.9 ~32:24/04/2023

2025/09773 ~ Complete ~54:ISOANDROGRAPHOLIDE ANALOGS AND METHOD FOR TREATMENT USING THE SAME ~71:Enveda Therapeutics, Inc., 5700 Flatiron Parkway, BOULDER 80301, CO, USA, United States of America ~72: CHERUKUPALLI, Kiran;GOTTUMUKKALA, Subbaraju Venkata;JADHAV, Prabhakar K.;KARATHANASIS, Sotirios K.;MANDAL, Goutam;MUKHOPADHYAY, Indranil;NORMAN, Bryan Hurst~ 33:US ~31:63/503,156 ~32:18/05/2023

- APPLIED ON 2025/11/18 -

2025/09786 ~ Complete ~54:A NOVEL NEGATIVE PRESSURE DRAINAGE DEVICE ~71:The Second Affiliated Hospital of Anhui University of Chinese Medicine, No. 300, Shouchun Road, Luyang District, Hefei City, Anhui Province, People's Republic of China ~72: Ding Panpan;Jiang Fangyu;Shi Feifei;Wang Biyun;Wang Yayu;Wu Liping;Zhang Mingli;Zhou Mengmeng;Zhou Yuxiang~

2025/09792 ~ 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

2025/09813 ~ Complete ~54:ORTHOGONAL MULTIMERIC PROTEINS ~71:XENCOR, INC., 465 N. Halstead ST., Suite 200, Pasadena, California, 91107, United States of America ~72: BHAVIKA R PATEL;GREGORY MOORE;JOHN R DESJARLAIS~ 33:US ~31:63/498,958 ~32:28/04/2023

2025/09817 ~ Provisional ~54:SECURE IDENTITY-BASED RE-ENROLLMENT OF CRYPTOGRAPHIC PRIVATE KEYS IN DEVICE EMBEDDED SECURE ELEMENT FOR BLOCKCHAIN IDENTITY CONTINUITY
~71:FRANCOIS PIERRE JOUBERT, 521,20th Ave, Rietfontein, Pretoria,, South Africa ~72: FRANCOIS PIERRE JOUBERT~

2025/09785 ~ Provisional ~54:SYSTEM AND METHOD FOR SOVEREIGN IDENTITY, DELEGATED AUTHORITY AND DECISION PROVENANCE FOR HUMAN AGENTS AND NON-HUMAN DIGITAL AGENTS INCLUDING AI ASSISTANTS AND AUTONOMOUS COMPUTATIONAL AGENTS IN DIGITAL ECONOMIES
~71:Annelie Stapela, 1700 North Pointe, South Africa ~72: Annelie Stapela~

2025/09793 ~ Complete ~54:HISTORY-BASED RICE PARAMETER DERIVATIONS FOR WAVEFRONT PARALLEL PROCESSING IN VIDEO CODING ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang'an, Dongguan, Guangdong 523860, People's Republic of China ~72: HAOPING YU;YUE YU~ 33:US ~31:63/260,600 ~32:26/08/2021;33:US ~31:63/251,385 ~32:01/10/2021;33:US ~31:63/262,078 ~32:04/10/2021

2025/09796 ~ Complete ~54:FOLDABLE ELECTRONIC DEVICE COMPRISING NFC ANTENNA ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: DONGUK CHOI;HEEJUN LEE;HIMCHAN YUN;HYUNGJOO LEE;JAE BONG CHUN;SANGHOON CHOI;SEUNGHWAN KIM;SOONHO HWANG~ 33:KR ~31:10-2023-0060071 ~32:09/05/2023;33:KR ~31:10-2023-0112235 ~32:25/08/2023;33:KR ~31:10-2024-0059366 ~32:03/05/2024

2025/09804 ~ Complete ~54:NON-VIRAL CELL ENGINEERING ~71:ARSENAL BIOSCIENCES, INC., 329 Oyster Point Blvd, South San Francisco, United States of America ~72: BAO, Robert;CHANG, Alice;LEON, Lina M.;MOOT, Robert;SMITH, Jenessa;TREVISAN, Brady;TRUONG, Annie~ 33:US ~31:63/508,059 ~32:14/06/2023

2025/09808 ~ Complete ~54:USE OF MILVEXIAN IN THE TREATMENT AND PREVENTION OF THROMBOTIC CONDITIONS IN PATIENTS WITH CARDIOVASCULAR OR CEREBROVASCULAR DISEASE ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America;Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: BARNATHAN, Elliot;CHINTALA, Madhu;HORROW, Jay;LI, Danshi;LUETTGEN, Joseph;MOHAN, Puneet;NESSEL, Christopher;PETERS, Gary;PLOTNIKOV, Alexei;STRONY, John~ 33:US ~31:63/497,088 ~32:19/04/2023;33:US ~31:63/497,101 ~32:19/04/2023;33:US ~31:63/497,111 ~32:19/04/2023;33:US ~31:63/578,508 ~32:24/08/2023;33:US ~31:63/582,313 ~32:13/09/2023

2025/09815 ~ Complete ~54:SALT-INDUCIBLE KINASE INHIBITOR COMPOUND AND PHARMACEUTICAL COMPOSITION INCLUDING THE SAME ~71:MITSUBISHI TANABE PHARMA CORPORATION, 2-10, Doshomachi 3-chome Chuo-ku Osaka-shi, Osaka, 5418505, Japan ~72: DAIKI NAKATAKE;HIROAKI SHITAMA;HIROSHI MIYAZAKI;MOTOYUKI NAKAJIMA;YUUKI ARAI;YUZO KODA~ 33:JP ~31:2023-085585 ~32:24/05/2023

2025/09800 ~ Complete ~54:FACIAL AGING PROGRESSION DETERMINATION OF A HUMAN INDIVIDUAL ~71:BEIERSDORF AKTIENGESSELLSCHAFT, Beiersdorfstrasse 1-9, Germany ~72: BIENKOWSKA, Agata;FALCKENHAYN, Cassandra;GRÖNNIGER, Elke;KRISTOF, Boris;SÖHLE, Jörn~ 33:EP ~31:23181093.8 ~32:22/06/2023

2025/09789 ~ Complete ~54:ELECTRICAL CONNECTOR ~71:MARKS, Donovan, Alexander, 17 HALF MOON LANE, IRENE, PRETORIA, SOUTH AFRICA, South Africa;ORMEROD, Stuart, Peter, 10 LUNAR LANE, SOLHEIM, GERMISTON, SOUTH AFRICA, South Africa ~72: MARKS, Donovan, Alexander;ORMEROD, Stuart, Peter~ 33:ZA ~31:2024/06797 ~32:04/09/2024

2025/09794 ~ Complete ~54:HISTORY-BASED RICE PARAMETER DERIVATIONS FOR WAVEFRONT PARALLEL PROCESSING IN VIDEO CODING ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang'an, Dongguan, Guangdong 523860, People's Republic of China ~72: HAOPING YU;YUE YU~ 33:US ~31:63/260,600 ~32:26/08/2021;33:US ~31:63/251,385 ~32:01/10/2021;33:US ~31:63/262,078 ~32:04/10/2021

2025/09806 ~ Complete ~54:USE OF MILVEXIAN FOR TREATING OR PREVENTING ADVERSE CEREBROVASCULAR EVENTS OR ADVERSE CARDIOVASCULAR EVENTS IN PATIENTS HAVING ACUTE CORONARY SYNDROME ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America;Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: BARNATHAN, Elliot;HORROW, Jay;LI, Danshi;MOHAN, Puneet;NESSEL, Christopher;PLOTNIKOV, Alexei~ 33:US ~31:63/497,111 ~32:19/04/2023

2025/09814 ~ Complete ~54:ANTI-IL1RAP ANTIBODIES ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda-Tsukasamachi Chiyoda-ku, Tokyo, 101-8535, Japan ~72: CAMILLA RYDBERG MILLRUD;DAVID LIBERG;ELIN JAENSSON GYLLENBÄCK;KJELL SJÖSTRÖM~ 33:EP ~31:23171919.6 ~32:05/05/2023

2025/09788 ~ Complete ~54:HIGH-STRENGTH MICRO-EXPANSIVE MATERIAL FOR SHAFT WALL GROUTING AND GROUTING TECHNOLOGY THEREOF ~71:China University of Mining and Technology, South Lake Campus, China University of Mining and Technology, No.1 Daxue Road, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Chi Zhang;Tingting Luo;Weihao Yang;Yanlong Ren;Yi Zhao;Zhijiang Yang~ 33:CN ~31:2025109376441 ~32:08/07/2025

2025/09790 ~ Complete ~54:INTELLIGENT NETWORK COMPLEX FOR COLLECTIVE MANAGEMENT, UAV MAINTENANCE AND AUDIT ~71:HP LLC, Lavochkina St. 24, apt. 40, Moscow, 125499, Russian Federation ~72: Titov Artem Valerievich~ 33:RU ~31:2025120064 ~32:21/07/2025

2025/09797 ~ Complete ~54:ORIENTING AN UNDERGROUND DETECTOR FOR MUON TOMOGRAPHY ~71:KOBOLD METALS COMPANY, 64 Shattuck Square, Suite 210 Berkeley, California 94704, United States of America ~72: DANIEL SNOWDEN-IFFT;JEAN-LUC GAUVREAU;THOMAS HUNT;WILLIAM PAGE~ 33:US ~31:63/460,254 ~32:18/04/2023

2025/09801 ~ Complete ~54:A PLASMA PRINTING PROCESS TO MANUFACTURE AND PRODUCE BATTERY ELECTRODES AND ENHANCE CUNENT COLLECTORS ~71:TEKRIWAL, Krishnakant, 30 Byramjitown, Nagpur, 440013, India ~72: TEKRIWAL, Krishnakant~ 33:IN ~31:202321035308 ~32:20/05/2023

2025/09802 ~ Complete ~54:SNP MOLECULAR MARKER COMBINATION ASSOCIATED WITH ALLERGIC RHINITIS AND ITS USE ~71:HANGZHOU SINGLETIDE GENETECH CO., LTD., No. 2 Building, 568 Binkang Road, Binjiang District, Hangzhou, Zhejiang, 310052, People's Republic of China ~72: SUN, Yi;WU, Zhoujie~ 33:CN ~31:202510748618.4 ~32:05/06/2025

2025/09805 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE TREATMENT OF DISORDERS RELATED TO CDKL5 DEFICIENCY ~71:Voyager Therapeutics, Inc., 75 Hayden Avenue, LEXINGTON 02421, MA, USA, United States of America ~72: LAKS, Dan Richard;LI, Jiangyu;MOYER, Tyler Christopher;NONNENMACHER, Mathieu Emmanuel~ 33:US ~31:63/499,933 ~32:03/05/2023;33:US ~31:63/593,830 ~32:27/10/2023;33:US ~31:63/564,457 ~32:12/03/2024

2025/09812 ~ Complete ~54:DYSREGULATION OF PLANKTONIC BACTERIAL METABOLISM ~71:Neolixir Limited, 22 Stirling Highway, Australia ~72: Andrew BARKER;Catherine ABBERTON;Ethan Clark HAESE;Kathryn GREEN;Maud EIJKENBOOM~ 33:AU ~31:2023901398 ~32:09/05/2023

2025/09816 ~ Provisional ~54:PAY AS YOU DRIVE ~71:PHILA STANFORD MCANYANA, 24 YELLOW WOOD, CRESCENT ASPEN HILLS, South Africa ~72: PHILA STANFORD MCANYANA~

2025/09787 ~ Complete ~54:SEALED COBALT REMOVAL DEVICE, METHOD, ASSEMBLY EQUIPMENT, AND POLYCRYSTALLINE DIAMOND COMPACT ~71:SICHUAN JIARUI TECHNOLOGY CO., LTD., No. 389, section 3, East Third Ring Road, Zhihe Town, Pengzhou City, Chengdu, Sichuan, 611930, People's Republic of China ~72: Fangyan LU;Lijuan CAO;Weiming LI;Yu ZHENG~ 33:US ~31:18/956,675 ~32:22/11/2024

2025/09791 ~ Complete ~54:METHOD FOR LOW-TEMPERATURE GERMINATION AND SEEDLING CULTURE OF EURYODENDRON EXCELSUM SEED ~71:MANAGEMENT DEPARTMENT OF EHUANGZHANG PROVINCIAL NATURE RESERVE, YANGCHUN, GUANGDONG, Yueguang Pond, Xishuang, Hekou Town, Yangchuan, People's Republic of China;SOUTH CHINA BOTANICAL GARDEN, CHINESE ACADEMY OF SCIENCES, No.723, Xingke Road, Tianhe District, Guangzhou, People's Republic of China ~72: Faguo WANG;Hongfeng CHEN;Xiaoling YU;Xipo LIN;Xueying WEI~

2025/09795 ~ Complete ~54:CARTRIDGE FOR INHALATION DEVICE ~71:INVOX BELGIUM NV, Agoralaan Building Abis, Belgium ~72: MADDEN, Steven;RAWERT, Jürgen~ 33:EP ~31:23182849.2 ~32:30/06/2023

2025/09803 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING PLAQUE PSORIASIS ~71:SUN PHARMACEUTICAL INDUSTRIES LIMITED, Sun House, Plot No. 201 B/1, Western Express Highway, India ~72: KOTHEKAR, Mudgal;MEHTA, Shantanu;NISHANDAR, Tushar;YAO, Siu-Long~ 33:IN ~31:202321036274 ~32:25/05/2023

2025/09809 ~ Complete ~54:HERBICIDE RESISTANT PLANTS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BATCHELOR, Anthea Karin;BLAIN, Rachael Elizabeth;DALE, Richard Paul;OLIVER, Sophie;SIMOES, Marta Andreia Horta~ 33:EP ~31:23168834.2 ~32:19/04/2023

2025/09799 ~ Complete ~54:FACIAL AGE DETERMINATION OF A HUMAN INDIVIDUAL ~71:BEIERSDORF AKTIENGESELLSCHAFT, Beiersdorfstrasse 1-9, Germany ~72: BIENKOWSKA, Agata;FALCKENHAYN, Cassandra;GRÖNNIGER, Elke;KRISTOF, Boris;SÖHLE, Jörn~ 33:EP ~31:23181088.8 ~32:22/06/2023

2025/09807 ~ Complete ~54:USE OF MILVEXIAN IN THE TREATMENT AND PREVENTION OF THROMBOTIC CONDITIONS IN PATIENTS WITH ATRIAL FIBRILATION ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America;Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: CHINTALA, Madhu;HORROW, Jay;LI, Danshi;LUETTGEN, Joseph;MOHAN, Puneet;NESSEL, Christopher;PETERS, Gary;STRONY, John~ 33:US ~31:63/497,101 ~32:19/04/2023;33:US ~31:63/578,508 ~32:24/08/2023;33:US ~31:63/582,313 ~32:13/09/2023

2025/09784 ~ Provisional ~54:ROTARY INTERNAL STEAM ENGINE RISE ~71:Mirko Kapikul, 211 Lavender Close, South Africa ~72: Mirko Kapikul~

2025/09798 ~ Complete ~54:METALLURGICAL FURNACE ~71:TECNORED DESENVOLVIMENTO TECNOLÓGICO S.A., Avenida Doutor Francisco Lessa Júnior, nº 2373, salas 01 a 06, Brazil ~72: AGRA, Anderson Azevedo;DE OLIVEIRA, Ronald Lopes;GONÇALVES, Guilherme Francisco;GONÇALVES, Manoel Vítor Borel;POTTER, Stephen Michael~ 33:BR ~31:1020230075517 ~32:20/04/2023

2025/09811 ~ Complete ~54:BIFUNCTIONAL DEGRADERS OF GALACTOSE-DEFICIENT IMMUNOGLOBULINS ~71:Biohaven Therapeutics Ltd., Kingston Chambers, P.O. Box 173, ROAD TOWN VG 1110, TORTOLA, VIRGIN ISLANDS (BRITISH), Virgin Islands (British) ~72: BRYSON, James;CALDWELL,

Reese M.;DUBOWCHIK, Gene M.;LEAHY, David K.;LINHARES, Brian;MARCIN, Lawrence R.;VAILL, Ada~
33:US ~31:63/499,231 ~32:29/04/2023;33:US ~31:63/504,877 ~32:30/05/2023;33:US ~31:63/604,935
~32:01/12/2023;33:US ~31:63/623,279 ~32:21/01/2024;33:US ~31:63/567,174 ~32:19/03/2024

2025/09810 ~ Complete ~54:TOMATO PLANT THAT IS RESISTANT TO TOBAMOVIRUS AT ELEVATED
TEMPERATURE ~71:Enza Zaden Beheer B.V., Haling 1E, ENKHUIZEN 1602 DB, THE NETHERLANDS,
Netherlands ~72: DE LA FUENTE VAN BENTEM, Sergio;GRIT, Albert;VERWEIJ, Cornelis Walter~
33:NL ~31:2034701 ~32:26/04/2023

- APPLIED ON 2025/11/19 -

2025/09825 ~ Provisional ~54:LOW-PRESSURE THERMAL HEAT ACCUMULATOR STORAGE SYSTEM
~71:SPOORMAKER & PARTNERS (PTY) LTD., S&P House, Unit 4, Corner of Lenchen Avenue North & South
Street, Centurion, 0157, South Africa ~72: ANDRIES JOHANNES HENDRIK NEL~

2025/09829 ~ Complete ~54:AN AI-BASED PERSONALIZED MENTAL HEALTH DETECTION AND SUPPORT
SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA
NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: NITHNWARE, Sony Siddharath;SOLANKE,
Rohit;SOMA, Om;SONDGE, Yashodhan;SONTAKKE, Purvas;SORTE, Aditi;VAYADAND, Kuldeep~

2025/09836 ~ Complete ~54:AUTONOMOUS TISSUE EXTRACTION SYSTEM AND METHOD THEREOF
~71:DR. DIPANJAN DAS, POST GRADUATE, DEPARTMENT OF ORAL & MAXILLOFACIAL
SURGERY FACULTY OF DENTAL SCIENCES, PDM UNIVERSITY, SECTOR 3A, SARAI AURANGABAD,
BAHADURGARH, HARYANA, 124507, India;DR. PANKAJ KUKREJA, CONSULTANT ORAL & MAXILLOFACIAL
SURGEON, HOUSE NO. 299, DR. MUKHERJI NAGAR, SADGURU DHAM MANDIR LANE, DELHI, 110009,
India;DR. RICHA WADHAWAN, PROFESSOR, DEPARTMENT OF ORAL MEDICINE & RADIOLOGY, FACULTY
OF DENTAL SCIENCES, PDM UNIVERSITY, BAHADURGARH, HARYANA, 124507, India;DR. RITIK
KASHWANI, FOUNDER AND DIRECTOR, FONT FUSIONS PUBLICATION PVT LTD, GROUND FLOOR, A-41
NOIDA, SEC-22, GAUTAM BUDDHA NAGAR UTTAR PRADESH, 201301, India;DR. ROHIT BANSAL, SENIOR
LECTURER, DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS, FACULTY OF DENTAL
SCIENCES, PDM UNIVERSITY, SECTOR 3A, SARAI AURANGABAD, BAHADURGARH, HARYANA, 124507,
India;DR. SAMEEN RAJASEKAR JAISEELAL, LECTURER, DEPARTMENT OF ORAL MEDICINE AND
RADIOLOGY, FACULTY OF DENTISTRY, AIMST UNIVERSITY, BEDONG, KEDAH, 0810, Malaysia;DR.
SARABPREET KAUR, CONSULTANT ORAL AND MAXILLOFACIAL SURGEON (MDS), H NO. 15-A GURBAX
NAGAR, AMRITSAR, PUNJAB, 143001, India;DR. SOORIAPRAKAS CHANDRASEKARAN, ASSOCIATE
PROFESSOR, DEPARTMENT OF CONSERVATIVE DENTISTRY AND ENDODONTICS, MEENAKSHI AMMAL
DENTAL COLLEGE AND HOSPITAL, MEENAKSHI ACADEMY OF HIGHER EDUCATION AND RESEARCH
(DEEMED TO BE UNIVERSITY) CHENNAI, TAMIL NADU, 600095, India;DR. SUMIT BHATT, ASSISTANT
PROFESSOR & PHD SCHOLAR, DEPARTMENT OF ORAL AND MAXILLOFACIAL SURGERY, RAJASTHAN
DENTAL COLLEGE AND HOSPITAL, NIRWAN UNIVERSITY, JAIPUR, RAJASTHAN, 302042, India;DR.
ZAMEER PASHA, CONSULTANT IN ORAL AND MAXILLOFACIAL SURGERY, DURRAT AL-ALAMMI DENTAL
CLINIC, AL-MAJMAAH, RIYADH, 15365, Saudi Arabia;ISHA DAS, VISITING HIGH SCHOOL STUDENT
RESEARCHER, NETWORK COMMUNICATION AND IOT LAB CHITTAGONG UNIVERSITY OF ENGINEERING
AND TECHNOLOGY, RAOZAN, CHITTAGONG, 4349, Bangladesh;MR. MIHIR KUMAR BHAILABHAI SUTHAR,
ASSOCIATE PROFESSOR, DEPARTMENT OF BIOLOGY (ZOOLOGY), K.K SHAH JARODWALA MANINAGAR
SCIENCE COLLEGE, GUJARAT UNIVERSITY, AHMEDABAD, GUJARAT, 380008, India ~72: DR. DIPANJAN
DAS;DR. PANKAJ KUKREJA;DR. RICHA WADHAWAN;DR. RITIK KASHWANI;DR. ROHIT BANSAL;DR.
SAMEEN RAJASEKAR JAISEELAL;DR. SARABPREET KAUR;DR. SOORIAPRAKAS CHANDRASEKARAN;DR.
SUMIT BHATT;DR. ZAMEER PASHA;ISHA DAS;MR. MIHIR KUMAR BHAILABHAI SUTHAR~

2025/09838 ~ Complete ~54:A RECEPTACLE ~71:PALMER, Clement, 35 KNIGHTS AVENUE, WINSOR EAST, RANDBURG, 2194, SOUTH AFRICA, South Africa ~72: PALMER, Clement~ 33:ZA ~31:2024/09477 ~32:10/12/2024

2025/09845 ~ Complete ~54:PHARMACEUTICAL COMPOSITION, PHARMACEUTICAL DOSAGE FORM, PROCESS FOR THEIR PREPARATION, METHODS FOR TREATING AND USES THEREOF ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: EISENREICH, Wolfram;PEARNCOB, Nantharat;SCHNEIDER, Peter~ 33:EP ~31:09172081.3 ~32:02/10/2009

2025/09851 ~ Complete ~54:SPRAY-DRIED COMPOSITIONS COMPRISING ADRENERGIC RECEPTOR MODULATORS ~71:OREXO AB, P.O. Box 303, SE-751 05, Sweden ~72: RÖNN, Robert;SÄVMARKER, Jonas~ 33:GB ~31:2308121.9 ~32:31/05/2023;33:GB ~31:2315885.0 ~32:17/10/2023;33:GB ~31:2319899.7 ~32:22/12/2023

2025/09869 ~ Complete ~54:ANTIBODY-DRUG CONJUGATES FOR DELIVERING CYTOTOXIC AGENTS ~71:Biohaven Therapeutics Ltd., Kingston Chambers, P.O. Box 173, ROAD TOWN VG 1110, TORTOLA, VIRGIN ISLANDS (BRITISH), Virgin Islands (British) ~72: DUBOWCHIK, Gene M.~ 33:US ~31:63/497,733 ~32:23/04/2023;33:US ~31:63/503,264 ~32:19/05/2023;33:US ~31:63/504,889 ~32:30/05/2023

2025/09877 ~ Provisional ~54:BAAIJUS: A USER-CONTROLLED, AI-POWERED EMOTIONAL ENVIRONMENT, CONTENT FILTERING ANDCROSS-PLATFORM DIGITAL EXPERIENCE MODERATION ECOSYSTEM ~71:The Best Trust Registration No: IT001800/2017(C), 418 Theuns van Niekerk Street. Wierda Park, Centurion, South Africa ~72: Jacques van der Merwe~

2025/09824 ~ Provisional ~54:SYSTEM AND METHOD FOR DYNAMICALLY CONTROLLING PHASE DELAY ~71:CHAMPION MOBILE GLOBAL LTD, Ridge View, Wellgreen Lane, Kingston-Upon-Lewes, United Kingdom ~72: ALI, Aatif;ATIQ, Hamza;KHALID, Bilal;KHAN, Saad Saleem;OMAR, Muhammad;ROBINSON, Justyna;USMAN, Muhammad~

2025/09826 ~ Provisional ~54:A METHOD OF ENABLING REAL-TIME REPORTING OF AN OBSERVED EVENT ~71:GABRIELLE DUPONT, 15 SIMBA ROAD SUNNINGHILL, South Africa ~72: GABRIELLE DUPONT~

2025/09839 ~ Complete ~54:ARTIFICIAL INTELLIGENCE-BASED METHOD AND SYSTEM FOR CONVERTING CHEMICAL MOLECULAR FILE FORMATS ~71:Hainan University, No. 58 Renmin Avenue, Haikou City, Hainan Province, 572539, People's Republic of China ~72: MA Bing~ 33:CN ~31:2025115210091 ~32:23/10/2025

2025/09841 ~ Complete ~54:BUILDING SAFETY ANTI-FALLING PROTECTIVE SHELTER ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Bing JIA;Fangchao LU;Huanyu ZHOU;Jingwan CUI;Kaihong WANG;Longlong HE;Quan LOU;Sheng LIU;Yiju TANG~

2025/09846 ~ Complete ~54:PROJECTILE ~71:Rheinmetall Waffe Munition GmbH, Heinrich-Ehrhardt-Straße 2, SÜDHEIDE 29345, GERMANY, Germany ~72: DAU, Ole;HOFFMANN, Nico;LOHDE, Philip;NADERHOFF, Uwe~ 33:DE ~31:10 2024 134 087.8 ~32:20/11/2024

2025/09850 ~ Complete ~54:BRaille READER ~71:Benjamin D. Katriel, 2224 El Amigo Road, Del Mar, California, 92014, United States of America ~72: Benjamin D. Katriel~

2025/09860 ~ Complete ~54:METHOD FOR SEQUENCING ALLERGIC RHINITIS-ASSOCIATED GENE AND ANALYZING SEQUENCING DATA, AND METHOD FOR EXPORTING ANALYSIS RESULTS ~71:HANGZHOU

SINGLETIDE GENETECH CO., LTD., No. 2 Building, 568 Binkang Road, Binjiang District, Hangzhou, Zhejiang, 310052, People's Republic of China ~72: SUN, Yi;WU, Zhoujie~ 33:CN ~31:202510748482.7 ~32:05/06/2025

2025/09868 ~ Complete ~54:RAISE BORING TOOL WITH IMPROVED CUTTINGS EVACUATION ~71:Sandvik Mining and Construction Tools AB, Valsverksstråket 14, SANDVIKEN 811 34, SWEDEN, Sweden ~72: LINDBLOM, Anders;LOIKKANEN, Joonas~ 33:EP ~31:23180643.1 ~32:21/06/2023

2025/09872 ~ Complete ~54:SOLID FORM OF A QUINOLINE CARBOXAMIDE COMPOUND ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: HONE, John;KEATES, Adam~ 33:EP ~31:23176494.5 ~32:31/05/2023

2025/09876 ~ Complete ~54:WEDGE ATTACHMENT OF OUTER CONE CRUSHER WEAR PART ~71:METSO FINLAND OY, Rauhalanpuisto 9, Finland ~72: DELAHAYE, Maxime;KOSPICZEWICZ, Corentin;ZIMMERMANN, Quentin~ 33:FI ~31:20235681 ~32:16/06/2023

2025/09831 ~ Complete ~54:A COMPREHENSIVE IOT POWERED SMOKE BASED FIRE DETECTION AND ALERT SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: ANTAD, Sonali Mallinath;BADVE, Vedant Satish;BHANDARI, Aditya Anand;KOLEKAR, Aum Sanjay;NATH, Aditya Deepak;UKE, Shailja Nilesh~

2025/09835 ~ Complete ~54:AN IOT-BASED SMART PILL DISPENSING DEVICE FOR AUTOMATIC AND PERSONALIZE MEDICINE DELIVERY ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: ANERAO, Prashant R.;BHISE, Suhas;DESHPANDE, Abhijeet R.;GAIGOLE, Pankaj;NIWSHEKAR, Yameen Shabhir;PAWAN, S. Wawage;RAMTIRTHKAR, Chandrashek Har R.;SATPUTE, Bodhisagar Bharatrao;SOMATKAR, Avinash Abhiman;WARGHANE, Vaibhav Santosh~

2025/09840 ~ Complete ~54:CLIMBING LADDER FOR SAFE CONSTRUCTION IN BUILDING ENGINEERING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Bing JIA;Fangchao LU;Jingwan CUI;Kaihong WANG;Quan LOU;Ruiliang SUN;Sheng LIU;Xincan LI;Yiju TANG~

2025/09847 ~ Complete ~54:WELL DEPTH SELF-ADAPTIVE WATER LEVEL DETECTION DEVICE BASED ON ACOUSTIC AND PRESSURE SENSOR FUSION ~71:SUZHOU UNIVERSITY, XUEFU AVENUE, YONGQIAO DISTRICT, SUZHOU, People's Republic of China ~72: GONG, Wei;LIU, Wenpei;MA, Jie;PENG, Weihua;WU, Cancan~

2025/09849 ~ Complete ~54:NANO DRUG LOADING SYSTEM LOADED WITH BONE MORPHOGENETIC PROTEIN AND APPLICATION IN POSTOPERATIVE HEALING ~71:Shenzhen Longhua District Central Hospital, No. 187 Guanlan Avenue, Fucheng Subdistrict, Longhua District, Shenzhen; Building 7, No. 187 Guanlan Avenue, Sihe Community, Fucheng Subdistrict, Shenzhen; and No. 1 Jinbu Road, Sihe Community, Fucheng Subdistrict, Shenzhen, People's Republic of China ~72: CHEN, Feiqiang;CHEN, Pengfei;DENG, Kai;LI, Yansong;WU, Geng;XIE, Xihong~ 33:CN ~31:2025115608554 ~32:29/10/2025

2025/09857 ~ Complete ~54:A MOULDING SYSTEM ~71:PULPEX LIMITED, Unit 1, Cambridge South, West Way, United Kingdom ~72: ASHCROFT, Theo Richard;PROZESKY, Daniel;TURNER, Adam Richard~ 33:GB ~31:2309878.3 ~32:29/06/2023

2025/09861 ~ Complete ~54:INCONTINENCE ARTICLE IN THE FORM OF UNDERPANTS WITH CHANNEL ~71:PAUL HARTMANN AG, Paul-Hartmann-Str. 12, Germany ~72: BEYRLER, Andreas;BUCH, Tamara;EILERS, Jörg;VECHTER, Olga~ 33:DE ~31:10 2023 116 341.8 ~32:21/06/2023

2025/09864 ~ Complete ~54:TEMPORARY CLAMPING DEVICE AND KIT FOR DRILLING JIGS ~71:SIFER S.R.L., Via Ferrante Imparato 190, 80146, Napoli, Italy ~72: FRANCESCO LUZZI~ 33:IT ~31:102023000012525 ~32:19/06/2023

2025/09867 ~ Complete ~54:GAME SYSTEM ~71:Angel Group Co., Ltd., 4600, Aono-cho, HIGASHIOMI-SHI 5270232, SHIGA, JAPAN, Japan ~72: MIHARA , Takanori;SHIGETA, Yasushi~ 33:JP ~31:2023-092779 ~32:05/06/2023

2025/09871 ~ Complete ~54:SWITCH RECEPTORS ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: GASSER, Stephan;KLEIN, Christian;SCHWARZ, Dominic;VENETZ, Dario~ 33:EP ~31:23177793.9 ~32:06/06/2023

2025/09832 ~ Complete ~54:A MULTI-SURFACE CLEANING SYSTEM WITH INTEGRATED FEEDWATER DISPENSER ~71:AMIT TALUKDAR, Department of Mechanical Engineering, DUIET, Dibrugarh University, Dibrugarh - 786004, Assam, India;ARMIN RIFAT MOHSIN, Cinnamara Railway Crossing, Cinnamara, Majgaon, PO-Cinnamara, PS-Jorhat, Dist.- Jorhat, Assam-785008, India;GUNGUN LAHAN, Lachit Nagar, Habiram Bora Path. PO-Sibsagar, PS-Sibsagar, Dist.-Sibsagar, Assam-785640, India;PRANJAL SARMAH, Department of Mechanical Engineering, DUIET, Dibrugarh University, Dibrugarh - 786004, Assam, India;SUBHANGAM KASHYAP BORA, Hollowgaon, PO-Khongia, PS-Dergaon, Dist.-Golaghat, Assam-785614, India;TONMOY TUSHAR BORA, Tarajan Kotoki Pukhuri, Kharagaruwa gaon, PO-RRL, PS-Pulibor, Dist.- Jorhat, Assam-785006, India;UDIPTA LAHKAR, Guwahati, Satribari, Old Fire Brigade Lane, H.No. 80, PO-Rihabari, PS- Paltan Bazar, Assam-781008, India ~72: AMIT TALUKDAR;ARMIN RIFAT MOHSIN;GUNGUN LAHAN;PRANJAL SARMAH;SUBHANGAM KASHYAP BORA;TONMOY TUSHAR BORA;UDIPTA LAHKAR~

2025/09834 ~ Complete ~54:A CUTTING-EDGE TAX CONSULTING SYSTEM TO CONNECT TAXPAYERS WITH CERTIFIED TAX EXPERTS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHANDARI, Mahesh A;CHAVAN, Gurunath T;FEGADE, Pranav S;KODMELWAR, Manohar K;NARKHEDE, Vedant A;PATHAK, Kishor R~

2025/09853 ~ Complete ~54:MULTI-POSITION BED SEPARATION MONITORING DEVICE FOR COAL MINE OVERLYING STRATA ~71:China University of Mining and Technology, Nanhu Campus of China University of Mining and Technology ,No. 1 Daxue Road, Xuzhou City, Jiangsu Province, 221116, People's Republic of China ~72: FANG Kun;HE Yang;HUANG Peng;LIU Shuo;ZHANG Jixiong~ 33:CN ~31:2024102727847 ~32:11/03/2024

2025/09859 ~ Complete ~54:TRANSPORT AND STORAGE SYSTEM FOR METAL COILS ~71:VOESTALPINE STAHL GMBH, voestalpine-Strasse 3, Austria ~72: BACHINGER, Philipp;KRASCHOWETZ, Martin;PROMBERGER, Martin;REISINGER, Georg~ 33:DE ~31:10 2023 113 576.7 ~32:24/05/2023

2025/09820 ~ Provisional ~54:PLUGIVERSE ATMOSPHERIC POWER GENERATOR ~71:Emmanuel Jacob Bonthuys, BreedeHuijs, Overhex Road, Worcester,, 6859, South Africa ~72: Emmanuel Jacob Bonthuys~

2025/09833 ~ Complete ~54:AN IOT DRIVEN PREDICTIVE ESCALATOR FALL ALERT SYSTEM FOR SUSTAINABLE SECURITY ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BARHATE, Minal;KOTHARI, Vedant;MAHALLE, Parikshit N;PATIL, Vrushal;YANPALLEWAR, Shivani;YARGOP, Rahul;ZADE, Tanmay~

2025/09837 ~ Complete ~54:METHOD FOR PREPARING SOLID OXIDE FUEL CELL CATHODE MATERIALS BY MICROWAVE CALCINATION AND APPLICATION THEREOF ~71:Kunming University of Science and

Technology, No. 253, Xuefu Road, Wuhua District, Kunming City, Yunnan Province, 650000, People's Republic of China; XIAMEN UNIVERSITY, No. 422 Siming South Road, Xiamen City, Fujian Province, 361000, People's Republic of China ~72: LI Jun; LI Xue; LIU Jinpeng; QIN Shaojie; WU Xianrui; ZHANG Peng; ZHANG Yiyong; ZHU Ziyi~

2025/09842 ~ Complete ~54: A DYNAMIC ASSESSMENT METHOD AND SYSTEM FOR THE CARBON SEQUESTRATION CAPACITY OF FLOODPLAIN WETLANDS ~71: Nanchang University, Qianhu Campus, Nanchang University, No. 999 Xuefu Avenue, Honggutan New District, Nanchang City, Jiangxi Province, People's Republic of China ~72: Cheng Zhijin; Jia Zhuo; Le Qiang; Peng Yuhao; Shan Yongye; Xia Zhiming; Xu Zixuan; Zhang Yun~ 33:CN ~31:2025115644264 ~32:30/10/2025

2025/09844 ~ Complete ~54: SGLT-2 INHIBITOR FOR TREATING TYPE 1 DIABETES MELLITUS, TYPE 2 DIABETES MELLITUS, IMPAIRED GLUCOSE TOLERANCE OR HYPERGLYCEMIA ~71: BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: BROEDL, Uli; EICKELMANN, Peter; GREMPER, Rolf; MARK, Michael; SEMAN, Leo John; THOMAS, Leo~ 33:US ~31:61/152,318 ~32:13/02/2009

2025/09858 ~ Complete ~54: MOULD PART AND MOULDING STATION ~71: PULPEX LIMITED, Unit 1, Cambridge South, West Way, United Kingdom ~72: TURNER, Adam Richard~ 33:GB ~31:2309881.7 ~32:29/06/2023

2025/09865 ~ Complete ~54: CROSS-LINKED MATERIAL COMPRISING POLYSACCHARIDE MOIETIES INTERCONNECTED BY ESTER BONDS ~71: MERZ AESTHETICS GMBH, Eckenheimer Landstraße 100, 60318, Frankfurt am Main, Germany ~72: CLEITON KUNZLER; COLIN DRABE; RADIA EL-BANNA; RADOVAN VUKICEVIC~ 33:EP ~31:23175399.7 ~32:25/05/2023

2025/09875 ~ Complete ~54: METHOD AND APPLICATION UNIT FOR APPLYING SEED DRESSING COMPOSITION, DRESSING APPLICATION DEVICE, SEED TUBE AND SOWING DEVICE ~71: Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: KARLEN, Roger; OBRIST, Lukas~ 33:EP ~31:23176431.7 ~32:31/05/2023

2025/09855 ~ Complete ~54: PYRIMIDINE COMPOUNDS FOR THE CONTROL OF INVERTEBRATE PESTS ~71: BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: PEDRONI, Julia; POHLMAN, Matthias; SCHISSLER, Christoph~ 33:EP ~31:23169385.4 ~32:24/04/2023; 33:EP ~31:23169386.2 ~32:24/04/2023; 33:EP ~31:23216860.9 ~32:14/12/2023

2025/09866 ~ Complete ~54: MECHANISMS FOR INTELLIGENT MANAGEMENT AND COMMUNICATION OF DATA PREPARATION REQUIREMENTS AND CAPABILITIES IN FEDERATED MACHINE LEARNING ~71: INTERDIGITAL PATENT HOLDINGS, INC., 200 Bellevue Parkway, Suite 300, Wilmington, Delaware, 19809, United States of America ~72: CHARLES AYDIN; DALE SEED; LU LIU; QUANG LY~ 33:US ~31:63/501,428 ~32:11/05/2023

2025/09870 ~ Complete ~54: TRIAZINE DERIVATIVES AS NLRP3 INHIBITORS ~71: F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BON, David; BOUCHE, Lea Aurelie; GUBA, Wolfgang; HARGRAVE, Emma; JAESCHKE, Georg Stefan; JOHNSTON, Heather Jennifer; MESCH, Stefanie Katharina; SCHNIDER, Christian; STEINER, Sandra; TOSSTORFF, Andreas Michael~ 33:EP ~31:23182238.8 ~32:29/06/2023

2025/09874 ~ Complete ~54: METHOD AND A SUPPLY DEVICE FOR PROVIDING AN AGRICULTURAL COMPOSITION ~71: Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND,

Switzerland ~72: KARLEN, Roger;OBRIST, Lukas;SUTTER, Manuel;SZALONTAI, Laszlo~
33:EP ~31:23176427.5 ~32:31/05/2023

2025/09843 ~ Complete ~54:MICROSTRIP LOGIC DEVICE ~71:CHAMPION MOBILE GLOBAL LTD, Ridge View, Wellgreen Lane, Kingston-Upon-Lewes, United Kingdom ~72: ALI, Aatif;FALAK, Usama;HAMID, Aaiza;KHAN, Saad Saleem;OMAR, Muhammad;ROBINSON, Justyna;USMAN, Muhammad~

2025/09848 ~ Complete ~54:GEYSER ANODE ~71:Kevin Patrick Austin PEARMAN, 21 Chaucer Avenue, Senderwood, Bedfordview, South Africa ~72: Kevin Patrick Austin PEARMAN~ 33:ZA ~31:2024/06341 ~32:19/09/2024

2025/09854 ~ Complete ~54:USE OF STROBILURIN TYPE COMPOUNDS FOR COMBATING PHYTOPATHOGENIC FUNGI CONTAINING AN AMINO ACID SUBSTITUTION F129L IN THE MITOCHONDRIAL CYTOCHROME B PROTEIN CONFERRING RESISTANCE TO QO INHIBITORS XVI ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: DAS, Saikat;DEY, Chandan;DIETZ, Jochen;FEHR, Marcus;GRAMMENOS, Wassilios;KHANNA, Smriti;KOCH, Andreas;KULKARNI, Sarang;LE VEZOUET, Ronan;LUDWIG, Lydia;RATH, Rakesh;SIEPE, Isabella~

2025/09856 ~ Complete ~54:A STATION AND METHOD ~71:PULPEX LIMITED, Unit 1, Cambridge South, West Way, United Kingdom ~72: KINAS, Anthony John~ 33:GB ~31:2309859.3 ~32:29/06/2023

2025/09862 ~ Complete ~54:TRANSPORT AND STORAGE SYSTEM FOR METAL COILS ~71:VOESTALPINE STAHL GMBH, voestalpine-Strasse 3, Austria ~72: KRASCHOWETZ, Martin;PROMBERGER, Martin;REISINGER, Georg~ 33:DE ~31:10 2023 113 576.7 ~32:24/05/2023

2025/09863 ~ Complete ~54:SYMRK PHOSPHORYLATION FOR ROOT NODULE ORGANOGENESIS ~71:AARHUS UNIVERSITET, Nordre Ringgade 1, 8000, Aarhus, Denmark ~72: JENS STOUGAARD JENSEN;KASPER RØJKJÆR ANDERSEN;KIRA DOROTHEA GYSEL;MALITA MALOU MALEKZADEH NØRGAARD;NIKOLAJ BIRKEBÆK ABEL;SIMON BOJE HANSEN~ 33:US ~31:63/507,414 ~32:09/06/2023

2025/09819 ~ Provisional ~54:PARTICLE CLASSIFICATION ~71:BRONN, Lodewyk, 10 BOLO STREET, MORELETA PARK, 0181, SOUTH AFRICA, South Africa ~72: BRONN, Lodewyk~

2025/09821 ~ Provisional ~54:ABRASION RESISTANT, MAGNETIC CONDUIT LINER AND A METHOD OF PROTECTING A CONDUIT ~71:ENGECO HOLDINGS (PTY) LTD, 86 Schroder Street,, South Africa ~72: SLABBERT, COENRAAD~

2025/09822 ~ Provisional ~54:AN ADJUSTABLE SUPPORT ASSEMBLY ~71:Johannes Nell, 67 Wildevy street, South Africa ~72: Johannes Nell~

2025/09823 ~ Provisional ~54:INTEGRATED AMPLIFIER AND DUPLEXER SYSTEM FOR TRANSCEIVERS USING TEMPORAL PERMITTIVITY SWITCHING ~71:CHAMPION MOBILE GLOBAL LTD, Ridge View, Wellgreen Lane, Kingston-Upon-Lewes, United Kingdom ~72: ALI, Aatif;KHAN, Saad Saleem;MURTAZA, Hussain;OMAR, Muhammad;ROBINSON, Justyna;USMAN, Muhammad~

2025/09827 ~ Provisional ~54:VEHICLE PROTECTION SYSTEM ~71:KEVIN STRIME, 69 HIGHSTRAND, BOUNDARY ROAD, GREENPOINT, South Africa;STEPHEN RICHARD YOUNG, 69 HIGHSTRAND, BOUNDARY ROAD, GREENPOINT, South Africa ~72: KEVIN STRIME;STEPHEN RICHARD YOUNG~

2025/09828 ~ Provisional ~54:SPAZAIFY – A SYSTEM AND METHOD FOR VERIFICATION, COMPLIANCE MANAGEMENT, AND PUBLIC DISCOVERY OF SPAZA SHOPS AND SIMILAR FOOD-HANDLING BUSINESSES ~71:Spazaify (Pty) Ltd, 63 Langrand Road, South Africa ~72: BATHABILE MANDISA

MBULAWA;KAMOGELO SKOSANA;KATLEHO JULIUS MAHLASI;KGALALELO RUTH KEKANA;Kholofelo Monama;NEO SKOSANA;SIMPHEWE LINDOKUHLE NGWENYA;TABITHA PHETO;TISETSO TLHOLO MAKAMU;Thakgalang Monama~

2025/09830 ~ Complete ~54:AN IOT ENABLED DEEP LEARNING DRY WASTE CLASSIFICATION SYSTEM WITH INCENTIVIZATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: AGRAWAL, Purvika;DESHMUKH, Swaroop;DEVANGAN, Ayush;GUPTA, Harsh;JOSHI, Hrushikesh;KANJALKAR, Pramod;LATHI, Aayush;LONDHE, Aoudumber;MAHALLE, Parikshit;PISE, Ganesh;SHIRODE, Ayush;THORAT, Bhagwan~

2025/09852 ~ Complete ~54:TRANSPORT AND STORAGE SYSTEM FOR METAL COILS ~71:VOESTALPINE STAHL GMBH, voestalpine-Strasse 3, Austria ~72: KRASCHOWETZ, Martin;PROMBERGER, Martin;REISINGER, Georg~ 33:DE ~31:10 2023 113 576.7 ~32:24/05/2023

2025/09873 ~ Complete ~54:MATERIAL-SORTING DEVICE, CONTROL METHOD AND MATERIAL-SORTING MACHINE ~71:Honesort Technology (Zhejiang) Co., Ltd., Zhuihong Bridge, Qianshi No.2 Road, Bamboo Industry Demonstration Park, Xiaofeng Town, Anji County, HUZHO 313301, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: GUO, Jiaqi;GUO, Jin;LI, Ximeng;SUN, Zhaoyan;WANG, Haishan;ZHANG, Jianqiang;ZHOU, Chengcheng;ZUO, Zhengyun~ 33:CN ~31:202310664131.9
~32:06/06/2023;33:CN ~31:202311117997.4 ~32:31/08/2023;33:CN ~31:202322364531.6
~32:31/08/2023;33:CN ~31:202420164799.7 ~32:23/01/2024;33:CN ~31:202420240276.6
~32:31/01/2024;33:CN ~31:202410228992.7 ~32:29/02/2024;33:CN ~31:202410236076.8
~32:01/03/2024;33:CN ~31:202420653161.X ~32:27/03/2024

2025/09879 ~ Provisional ~54:FOCUS HARVEST INITIATIVE ~71:Ernest Themba Nkosi, 09 DU PREEZ STREET, South Africa ~72: Ernest Themba Nkosi~

- APPLIED ON 2025/11/20 -

2025/09896 ~ Complete ~54:TIE FOR INTERCONNECTING NETS ~71:NIXON, Timothy Edward Piggott, 37 Company Road, Mnandi, CENTURION 0149, Gauteng, SOUTH AFRICA, South Africa ~72: NIXON, Timothy Edward Piggott~ 33:ZA ~31:2024/06426 ~32:22/08/2024

2025/09902 ~ Complete ~54:A METHOD FOR ENHANCED OIL RECOVERY USING LOW SALINITY WATERFLOODING IN A HEAVY OIL FIELD ~71:Dr. Nayan Medhi, Assistant Professor, Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Dr. Rupam Deka, Assistant Professor, Department of Mechanical Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Mr. Sanjeev Thakur, Chief Engineer-Projects, Oil India Limited (OIL), and Ph.D. Research Scholar in the Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India ~72: Dr. Nayan Medhi;Dr. Rupam Deka;Mr. Sanjeev Thakur~

2025/09907 ~ Complete ~54:AN RFID AND IOT-ENABLED VEHICLE THEFT PREVENTION SYSTEM UTILIZING MULTI-FACTOR AUTHENTICATION, SENSOR FUSION, AND REMOTE IMMOBILIZATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: FAROOQUI, Mohammad Viqar;KHASAKI, Vivek;TAGALPALLEWAR, Atharva Kiran;WANDHARE, Paritosh;WANKHADE, Shalini Vaibhav~

2025/09908 ~ Complete ~54:CARBON DIOXIDE ELECTROCATALYTIC REDUCTION REACTION DEVICE ~71:Henan University of Urban Construction, Longxiang Avenue Xincheng District Pingdingshan City, Henan

Province, 467036, People's Republic of China ~72: GENG Hongchao;JIAO Xueran;KANG Haiyan;MAO Yanli;SONG Zhongxian;YAN Xu;ZHANG Xia;ZHU Xinfeng~

2025/09912 ~ Complete ~54:METHOD FOR PREPARING A STABLE EMULSION BY MAGNETIC TURBULENCE ~71:IXCHEL TECHNOLOGIES, 26 PLACE DE LA NATION, 18000 BOURGES, FRANCE, France ~72: DESJARDINS, Manon;DESJARDINS, Marine;DESJARDINS-LAVISSE, Isabelle~ 33:FR ~31:FR2304020 ~32:21/04/2023

2025/09915 ~ Complete ~54:METHODS FOR PREPARING (-)-EPICATECHIN ~71:MARS, INCORPORATED, 6885 Elm Street, Mclean, Virginia, 22101, United States of America ~72: GODWIN PAIS~ 33:US ~31:63/461,058 ~32:21/04/2023

2025/09882 ~ Provisional ~54:A NEW CLASS OF SUPER CAPACITIVE DYNAMIC STORAGE DEVICE ~71:CHAMPION MOBILE GLOBAL LTD, Ridge View, Wellgreen Lane, Kingston-Upon-Lewes, United Kingdom ~72: KHAN, Saad Saleem;NISAR, Hamza Ali;OMAR, Muhammad;ROBINSON, Justyna;SHAMS, Farhan;SIDDIQUE, Husnain;USMAN, Muhammad~

2025/09909 ~ Complete ~54:A METHOD FOR DELAYING WATER BREAKTHROUGH AND ENHANCING OIL RECOVERY IN A SANDSTONE RESERVOIR VIA CHEMICALLY TUNED WATERFLOODING ~71:Dr. Dhrubajyoti Neog, Assistant Professor, Department of Petroleum Technology, Dibrugarh University, Dibrugarh, Assam - 786004, India;Dr. Nayan Medhi, Assistant Professor, Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Dr. Rupam Deka, Assistant Professor, Department of Mechanical Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Mr. Sanjeev Thakur, Chief Engineer-Projects, Oil India Limited (OIL), and Ph.D. Research Scholar in the Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India ~72: Dr. Dhrubajyoti Neog;Dr. Nayan Medhi;Dr. Rupam Deka;Mr. Sanjeev Thakur~

2025/09923 ~ Complete ~54:METHODS FOR DETECTING MUTATIONS IN TARGET NUCLEIC ACIDS USING DUAL PROBES ~71:Revvity Health Sciences, Inc., 77 4th Ave, WALTHAM 02451, MA, USA, United States of America ~72: LU, Zhixiang;NANDU, Nidhi;TONG, Yanhong~ 33:US ~31:18/208,140 ~32:09/06/2023

2025/09885 ~ Provisional ~54:A SURGICAL SUCTION-DISSECTOR WITH ATRAUMATIC SOFT-RING TIP FOR OPEN, ENDOSCOPIC AND LAPAROSCOPIC SURGERY ~71:Juandre Kloppe, 26 Richter Avenue, South Africa ~72: Juandre Kloppe~

2025/09898 ~ Complete ~54:OPTICAL FIBER CABLE AND SYSTEM AND METHOD OF DISTRIBUTING ULTRA HIGH POWER USING THE SAME ~71:Macleon, 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

2025/09910 ~ Complete ~54:A SYSTEM AND METHOD FOR EVALUATING AND UTILIZING ABANDONED OIL AND GAS WELLS FOR GEOTHERMAL ENERGY PRODUCTION IN THE OIL FIELD ~71:Dr. Dhrubajyoti Neog, Assistant Professor, Department of Petroleum Technology, Dibrugarh University, Dibrugarh, Assam - 786004, India;Dr. Nayan Medhi, Assistant Professor, Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Dr. Partha Protim Borthakur, Assistant Professor, Department of Mechanical Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Mr. Sanjeev Thakur, Chief Engineer-Projects, Oil India Limited (OIL), and Ph.D. Research Scholar in the Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India ~72: Dr. Dhrubajyoti Neog;Dr. Nayan Medhi;Dr. Partha Protim Borthakur;Mr. Sanjeev Thakur~

2025/09916 ~ Complete ~54:PROCESS FOR PREPARING A LIQUID PHOSPHATE COMPOSITION AND A PROCESS FOR PREPARING A DICALCIUM PHOSPHATE COMPOSITION ~71:PRAYON, rue Joseph Wauters, 144, 4480, Engis, Belgium ~72: MARC SONVEAUX;THOMAS DETHIER;THOMAS HENRY~ 33:EP ~31:23175123.1 ~32:24/05/2023

2025/09920 ~ Complete ~54:METHOD FOR PRODUCING MILK LIKE PRODUCTS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: DAYON, Loïc;FERRIER, Laurent;GIUFFRIDA, Francesca;HETTIARACHCHI, Charith;KRAUS, Marine;MASHINCHIAN, Omid;PRUVOST, Solenn;YART, Lucile;ZOLLINGER, Alix~ 33:EP ~31:23170503.9 ~32:27/04/2023;33:EP ~31:23170510.4 ~32:27/04/2023

2025/09922 ~ Complete ~54:METHOD FOR PRODUCING MILK LIKE PRODUCTS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: DAYON, Loïc;GIUFFRIDA, Francesca;HETTIARACHCHI, Charith;KRAUS, Marine;MASHINCHIAN, Omid;PRUVOST, Solenn;YART, Lucile;ZOLLINGER, Alix~ 33:EP ~31:23170503.9 ~32:27/04/2023;33:EP ~31:23170510.4 ~32:27/04/2023

2025/09927 ~ Complete ~54:METHODS OF TREATMENT USING ANTI-C-MET ANTIBODY DRUG CONJUGATES ~71:AbbVie Manufacturing Management Unlimited Company, 70 Sir John Rogerson's Quay, DUBLIN D02 R296, IRELAND, Ireland ~72: ARISTIDE, Martha Neagu;BIESDORF DE ALMEIDA, Carla;ENGELHARDT, Benjamin;FREISE, Kevin;GUAN, Xiaowen;LI, Rui;MORRISON-THIELE, Gladys Dufuah;PARIKH, Apurvasena Shailesh~ 33:US ~31:63/503,929 ~32:23/05/2023;33:US ~31:63/555,506 ~32:20/02/2024

2025/09928 ~ Complete ~54:A SYSTEM FOR STORING AND TRANSFERRING HEAT, COMPRISING A SOLID BULK MATERIAL ~71:BEISTAR CZ, S.R.O., Dlouhá 164, Czech Republic ~72: MLCEK, Jiri~ 33:CZ ~31:PV 2023-173 ~32:28/04/2023

2025/09886 ~ Provisional ~54:PCPW (POWER CABLE PROTECTION WRAPPING) ~71:Dirk Steenkamp, 72 Service Road, Rietfontein, South Africa ~72: Dirk Steenkamp~

2025/09893 ~ Complete ~54:A CARBON EMISSION QUANTIFICATION METHOD AND SIMULATION SYSTEM FOR URBAN MASTER PLANNING BASED ON LAND USE TYPES ~71:JINAN CITY PLANNING AND DESIGN INSTITUTE, No. 2000, Shunhua Road, High-tech Zone, Jinan City, Shandong Province, 250101, People's Republic of China;Shandong Jianzhu University, No. 1000, Fengming Road, Licheng District, Jinan City, Shandong Province, 250101, People's Republic of China;Zibo City Planning and Design Research Institute Co., Ltd., No. 15, Renmin West Road, Zhangdian District, Zibo City, Shandong Province, 255022, People's Republic of China ~72: Chaoxian Feng;Hongxiang Ai;Shizhen Cao;Xiaoping Zhang;Xunxi Yin;Zixuan Cui~

2025/09894 ~ Complete ~54:A PLUGGING AGENT FOR FRACTURE LOSS IN OIL AND GAS WELLS AND A PREPARATION METHOD THEREOF ~71:Sichuan Annuos Oil and Gas Energy Technology Co., Ltd., Room 906, Unit 5, IMC International Plaza, No. 188 Jiqing 4th Road, High-tech Zone, Chengdu City, Sichuan Province, 610096, People's Republic of China ~72: Hongqiong Fu~

2025/09903 ~ Complete ~54:A REAL-TIME POTHOLE DETECTION, REPORTING, AND SAFETY SYSTEM FOR SMART ROAD MONITORING ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAUDHARI, Archana Kedar;KADU, Anil Baban;KALE, Sanket Bhagwanrao;KASARE, Prajwal Santosh;NANDESHWAR, Vikas Janu~

2025/09905 ~ Complete ~54:A STOCK PRICE PREDICTION SYSTEM BASED ON A HYBRID LSTM-XGBOOST ARCHITECTURE ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER

INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: MAHALLE, Parikshit;PAWAR, Samarth Kiran;PAWAR, Sarthak Sharad;PAWAR, Tanishka;PAWAR, Vishal;PHALKE, Soham Devram;Pawar, Soham Prashant;RAJPUT, Vaishali~

2025/09913 ~ Complete ~54:NUCLEIC ACID ENCODING ANTI-VEGF PROTEIN, POLYNUCLEOTIDE EXPRESSION CASSETTE AND RECOMBINANT ADENO-ASSOCIATED VIRUS ~71:CHENGDU ORIGIN BIOTECHNOLOGY CO., LTD., 6th Floor, Building 2, No.108 Shuxi Road, People's Republic of China ~72: KE, Xiao;LUO, Shuang;ZHENG, Qiang~ 33:CN ~31:202310483755.0 ~32:28/04/2023;33:CN ~31:202310930549.X ~32:26/07/2023

2025/09914 ~ Complete ~54:NEUTRON SHIELDING MULTILAYER STRUCTURE ~71:NIPPON FIBER CORPORATION, 2373-2, Fuse, Abiko-City, Chiba, 2701162, Japan ~72: HIROSHI FUKAZAWA~ 33:JP ~31:2023-108928 ~32:30/06/2023

2025/09880 ~ Provisional ~54:IMPROVED RAILWAY WHEELSET AND METHOD OF MANUFACTURING ~71:Victor Havenga Trust, 7 Promosa Road, Potchefstroom Industrial, Potchefstroom, 2531, South Africa ~72: Victor Lionel Havenga~

2025/09929 ~ Complete ~54:SORBENTS FOR CAPTURE OF A GAS SUCH AS CARBON DIOXIDE FROM A GAS STREAM ~71:THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, 412 Low Memorial Library, 535 West 116th Street, United States of America ~72: PARK, Ah-hyung Alissa;SHEN, Mengqi;SHI, Xiaoyang~ 33:US ~31:63/468,850 ~32:25/05/2023

2025/09881 ~ Provisional ~54:THERANOSTIC RADIOPHARMACEUTICAL COMBINATION FORMULATION FOR DIAGNOSING AND TREATING ENDOMETRIOSIS ~71:MAHARAJ, Masha, 223 Adelaide Tambo Drive, Virginia, South Africa ~72: MAHARAJ, Masha~

2025/09887 ~ Provisional ~54:PAYMENT PROCESSING SYSTEM AND METHOD ~71:KAHLE, Georg Carl Beyers, 3 Woolston Road, WESTCLIFF, Johannesburg 2193, Gauteng, SOUTH AFRICA, South Africa ~72: KAHLE, Georg Carl Beyers~

2025/09889 ~ Complete ~54:WEAR-RESISTANT AND FLAME-RETARDANT CONVEYOR BELT AND PREPARATION METHOD THEREOF ~71:BAODING HUAYUE RUBBER BELTS CO., LTD, Boye County Economic Development Zone, Baoding City, Hebei Province, People's Republic of China ~72: LI Zhaoqin;LIU Chaoqian;QI Xiaohu~

2025/09901 ~ Complete ~54:COMPUTER HEAT DISSIPATION DEVICE ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: PENG, Meixiang;WAN, Meifang;ZOU, Guoping~

2025/09925 ~ Complete ~54:HEAVY METALS REMOVAL FROM PHOSPHORIC ACID CONTAINING STREAMS ~71:Cytec Industries Inc., 2564 US Highway 1, LAWRENCE 08648, NJ, USA, United States of America ~72: BALLENTINE, Franklyn;CALBICK, Joseph;HIEMATH, Ravi Rajshekar;MOSER, Michael;ZHANG, Lei~ 33:US ~31:63/508,429 ~32:15/06/2023

2025/09888 ~ Provisional ~54:POST-TENSIONAL CABLE ANCHORS ~71:Theodore Daniel Swemmer, PO Box 75746, South Africa ~72: Theodore Daniel Swemmer~

2025/09890 ~ Complete ~54:COMPREHENSIVE PHYSICAL PROTECTION SYSTEM FOR PLANTS AGAINST BIOTIC AND ABIOTIC STRESSES DURING GROWTH STAGES ~71:Southwest Forestry University, No. 300, Bailongsi, Panlong Dist., Kunming City, Yunnan Province, People's Republic of China ~72: Yanxi Zhou~

2025/09904 ~ Complete ~54:A METHOD FOR ENHANCING OIL RECOVERY BY USING IN-SITU CLAY-INDUCED FORMATION DAMAGE DURING LOW SALINITY WATERFLOODING IN A SANDSTONE RESERVOIR ~71:Dr. Nayan Medhi, Assistant Professor, Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Dr. Partha Protim Borthakur, Assistant Professor, Department of Mechanical Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Mr. Sanjeev Thakur, Chief Engineer-Projects, Oil India Limited (OIL), and Ph.D. Research Scholar in the Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Mr. Uttaron Goswami, Ph.D. Research Scholar, Department of Petroleum Technology, Dibrugarh University, Dibrugarh, Assam - 786004, India ~72: Dr. Nayan Medhi;Dr. Partha Protim Borthakur;Mr. Sanjeev Thakur;Mr. Uttaron Goswami~

2025/09906 ~ Complete ~54:AN AI-ENABLED, LOCATION-AWARE INFOTAINMENT SYSTEM FOR PUBLIC OFFICE VISITORS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAVAN, Pranali;GAIKWAD, Vidya;MESHRAM, Vidula Vishal;MESHRAM, Vishal Ambadas;REGE, Pallavi;SHINDE, Sandip Ramrao;TIWASKAR, Shweta;WANKHEDE, Disha Sushant~

2025/09883 ~ Provisional ~54:LIGHT-BASED GYROSCOPE FOR ANGULAR VELOCITY AND TILT DETECTION ~71:CHAMPION MOBILE GLOBAL LTD, Ridge View, Wellgreen Lane, Kingston-Upon-Lewes, United Kingdom ~72: KHAN, Saad Saleem;NISAR, Hamza Ali;OMAR, Muhammad;QAYYUM, Hafza;ROBINSON, Justyna;SIDDIQUE, Husnain;USMAN, Muhammad~

2025/09891 ~ Complete ~54:COMPOSITE FERMENTED FEED OF CHINESE HERBAL MEDICINE AND ATTAPULGITE SPECIFICALLY USED FOR CATTLE IN FATTENING PERIOD, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:GANSU AGRICULTURAL UNIVERSITY, No. 1 Yingmen Village, Anning District, Lanzhou City, People's Republic of China;LANZHOU UNIVERSITY, No. 222 South Tianshui Road, Lanzhou, People's Republic of China;LVFENGYUAN FORAGE AND LIVESTOCK TECHNOLOGY CO., LTD., HEZUO CITY, Ground-floor shop, Building 1, Gukang Jiayuan (State Song and Dance Theatre Residential Building), Hezuo City, Gannan Prefecture, People's Republic of China ~72: CHEN, Guoshun;DING, Xuezhi;GENG, Yiwen;LIANG, Zeyi;LIU, Xiu;MA, Chao;SHI, Lei;ZHANG, Quande;ZHAO, Shengguo~ 33:CN ~31:2025114014972 ~32:28/09/2025

2025/09911 ~ Complete ~54:A REAL-TIME EARTHING INTEGRITY AND FAULT DETECTION SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: JADHAV, Pravin Ishwar;JANKAR, Kunal Subhashchandra;JOSHI, Avani Sachin;JOSHI, Ishan Hemant;KAKADE, Shrujal Rajendra;KAKADE, Swaraj Babasaheb;NANDESHWAR, Vikas Janu;SHAMKUWAR, Sonal Chandrakant~

2025/09917 ~ Complete ~54:BOTTLE WITH SCREW CAP AND ANTI-DRIP DEVICE ~71:TECHNO FOR FUTURE SRL, Via Matteo Ricci, 19, Italy ~72: Emanuele NALLI;Massimo TOTI;Peppino PELLONARA~ 33:IT ~31:102023000011613 ~32:07/06/2023

2025/09918 ~ Complete ~54:REACTOR SYSTEMS FOR GAS SYNTHESIS ~71:17, INC., 261 Pamela Drive, Mountain View, United States of America ~72: EDWARDS, Garth Otway Ross~ 33:US ~31:63/506,815 ~32:07/06/2023;33:US ~31:18/587,816 ~32:26/02/2024

2025/09919 ~ Complete ~54:COMPOSITIONS FOR ENHANCED MUCOSAL PENETRATION ~71:SHIN NIPPON BIOMEDICAL LABORATORIES, LTD., 2438 Miyanoura, Kagoshima, Japan ~72: HARUTA, Shunji~ 33:US ~31:63/505,344 ~32:31/05/2023

2025/09926 ~ Complete ~54:THREE-DIMENSIONAL MODEL GENERATION AND SURGICAL PLANNING BASED THEREON ~71:Disior Ltd, 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of

America ~72: BARMES, Francis D.;DACOSTA, Albert;EDIE, Jason Allan;HENELL, Anna-Maria;HUOTILAINEN, Eero;JENSEN, Adam Thomas;KOWALCZYK, Gregory J.;TAMPIO, Juha~ 33:US ~31:63/497,509
~32:21/04/2023;33:US ~31:63/594,992 ~32:01/11/2023

2025/09921 ~ Complete ~54:METHOD FOR PRODUCING MILK LIKE PRODUCTS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: DAYON, Loïc;FERRIER, Laurent;GIUFFRIDA, Francesca;HETTIARACHCHI, Charith;KRAUS, Marine;MASHINCHIAN, Omid;PRUVOST, Solenn;YART, Lucile;ZOLLINGER, Alix~ 33:EP ~31:23170502.1 ~32:27/04/2023;33:EP ~31:23170503.9
~32:27/04/2023;33:EP ~31:23170510.4 ~32:27/04/2023

2025/09924 ~ Complete ~54:DOSING CUPS AND RELATED MEDICINAL FLUID DELIVERY SYSTEMS ~71:The Procter & Gamble Company, One Procter & Gamble Plaza, CINCINNATI 45202, OH, USA, United States of America ~72: EL HASSAN, Rabi~ 33:US ~31:63/515,394 ~32:25/07/2023

2025/09884 ~ Provisional ~54:TRIBOELECTRIC FINGERPRINT IDENTIFICATION DEVICE ~71:CHAMPION MOBILE GLOBAL LTD, Ridge View, Wellgreen Lane, Kingston-Upon-Lewes, United Kingdom ~72: HABIB, Maryam;KHAN, Saad Saleem;OMAR, Muhammad;QAYYUM, Hafza;ROBINSON, Justyna;USMAN, Muhammad~

2025/09892 ~ Complete ~54:AN ABANDONED OIL AND GAS WELL PLUGGING DEVICE AND PLUGGING METHOD ~71:Sichuan Annuos Oil and Gas Energy Technology Co., Ltd., Room 906, Unit 5, IMC International Plaza, No. 188 Jiqing 4th Road, High-tech Zone, Chengdu City, Sichuan Province, 610096, People's Republic of China ~72: Hongqiong Fu~

2025/09895 ~ Complete ~54:A CUTTING DEVICE ~71:NIXON, Timothy Edward Piggott, 37 Company Road, Mnandi, CENTURION 0149, Gauteng, SOUTH AFRICA, South Africa ~72: NIXON, Timothy Edward Piggott~ 33:ZA ~31:2024/06427 ~32:22/08/2024

2025/09897 ~ Complete ~54:EPIDERMAL PROTECTIVE AND REGENERATIVE FORMULATION ~71:KYOMI WELLNESS AND HEALTH (PTY) LTD, Leliefontein Farm, South Africa ~72: PRADEEP, Priyamvada~

2025/09899 ~ Complete ~54:COMPUTER HEAT DISSIPATION DEVICE ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: PENG, Meixiang;WAN, Meifang;ZOU, Guoping~

2025/09900 ~ Complete ~54:METHOD AND DEVICE FOR ONLINE MONITORING OF PERMANENT MAGNET DEMAGNETIZATION IN PERMANENT MAGNET WIND TURBINES ~71:HUNAN INSTITUTE OF ENGINEERING, NO. 88, FUXING EAST ROAD, XIANGTAN CITY, People's Republic of China ~72: LEI, Xiangfu;OU, Jinsheng;XIE, Qiuyue;YANG, Qiang~ 33:CN ~31:2025100797572 ~32:18/01/2025

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

Application Number	Assignor	Assignee
2021/08533	INTEGRAVITE RESEARCH LABORATORIES SWEDEN AB	IRL790 AB
2024/04332	SANOFI	SANOFI PASTEUR INC.
2023/08814	JOHANNES DU PLESSIS	CELIX TRADING CC
2007/05282	DALTRONX (PTY) LTD	NIMBLE CREDIT FACILITY 2 (RF) (PTY) LTD and GUSTAV STREET CAPITAL (PTY) LTD (HYPOTHECATION)

Application Number	Assignor	Assignee
2019/02043	DALTRONX (PTY) LTD	NIMBLE CREDIT FACILITY 2 (RF) (PTY) LTD and GUSTAV STREET CAPITAL (PTY) LTD (HYPOTHECATION)
2018/06556	DALTRONX (PTY) LTD	NIMBLE CREDIT FACILITY 2 (RF) (PTY) LTD and GUSTAV STREET CAPITAL (PTY) LTD (HYPOTHECATION)
2018/04826	DALTRONX (PTY) LTD	NIMBLE CREDIT FACILITY 2 (RF) (PTY) LTD and GUSTAV STREET CAPITAL (PTY) LTD (HYPOTHECATION)
2018/04825	DALTRONX (PTY) LTD	NIMBLE CREDIT FACILITY 2 (RF) (PTY) LTD and GUSTAV STREET CAPITAL (PTY) LTD (HYPOTHECATION)
2019/07972	ARJOHUNTLEIGH MAGOG INC.	ARJO IP HOLDING AKTIEBOLAG
2022/07518	HUAINAN NORMAL UNIVERSITY	HEFEI ZHONGKE LAVA MEDICAL TECHNOLOGY CO., LTD.
2025/02954	YUNNAN COMMUNICATIONS INVESTMENT & CONSTRUCTION GROUP CO., LTD.	YUNNAN LOW-ALTITUDE INDUSTRY INVESTMENT CO., LTD.
2025/02955	YUNNAN COMMUNICATIONS INVESTMENT & CONSTRUCTION GROUP CO., LTD.	YUNNAN LOW-ALTITUDE INDUSTRY INVESTMENT CO., LTD.
2025/02915	YUNNAN COMMUNICATIONS INVESTMENT & CONSTRUCTION GROUP CO., LTD.	YUNNAN LOW-ALTITUDE INDUSTRY INVESTMENT CO., LTD.
2022/02908	OCEAN UNIVERSITY OF CHINA	GUANGDONG YUEQUN OCEAN BIOTECHNOLOGY CO., LTD.
2025/02917	YUNNAN COMMUNICATIONS INVESTMENT & CONSTRUCTION GROUP CO., LTD.	YUNNAN LOW-ALTITUDE INDUSTRY INVESTMENT CO., LTD.
2020/02080	TAKEDA PHARMACEUTICALS U.S.A., INC.	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2021/05894	GREENGAGE AGRITECH LIMITED	ROL-TECH-MAR SP.Z.O.O.
2025/01067	ECKELBERRY, NICHOLAS	ELECTRO-AERATION INC.
2014/04462	BLACK BEAR CARBON B.V.	ADD VENTURES CAPITAL INTERNATIONAL COMPANY LIMITED
2018/05517	BLACK BEAR CARBON B.V.	ADD VENTURES CAPITAL INTERNATIONAL COMPANY LIMITED
2018/05915	BLACK BEAR CARBON B.V.	ADD VENTURES CAPITAL INTERNATIONAL COMPANY LIMITED
2021/00972	BLACK BEAR CARBON B.V.	ADD VENTURES CAPITAL INTERNATIONAL COMPANY LIMITED
2017/04553	OUTOTEC (FINLAND) OY	METSO MINERALS OY
2010/01836	SMT RESEARCH LIMITED	INDUSTRIAL RESEARCH & TECHNOLOGY LIMITED
2018/07780	MUNTERMANN, AXEL	MEDTEC MEDIZINTECHNIK GMBH
2011/00030	MUNTERMANN, AXEL	MEDTEC MEDIZINTECHNIK GMBH
2023/03990	CAS SENSOR (FOSHAN) TECHNOLOGY CO. LTD	XINJIANG TECHNICAL INSTITUTE OF PHYSICS AND CHEMISTRY, CHINESE ACADEMY OF SCIENCES
2013/04824	SPACE S.R.L. CON UNICO SOCIO	VEHICLE SERVICE GROUP ITALY S.R.L.
2012/08207	SPACE S.R.L. CON UNICO SOCIO	VEHICLE SERVICE GROUP ITALY S.R.L.

Application Number	Assignor	Assignee
2025/03267	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03268	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03272	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03273	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03275	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03276	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03278	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03279	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03280	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03281	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03303	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03311	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03310	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/0-3309	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03308	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03306	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03305	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03304	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03302	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03301	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03300	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03299	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03298	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03296	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03297	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03216	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI

Application Number	Assignor	Assignee
2025/03295	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03294	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03293	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03292	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03291	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03290	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03289	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03286	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03215	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03288	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03287	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03213	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03214	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03284	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03285	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03209	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03282	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03266	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03265	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03264	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2025/03263	CHANDIGARH GROUP OF COLLEGES	C.G.C UNIVERSITY, MOHALI
2024/03885	INTERCONTINENTAL ENERGY HOLDINGS GROUP LIMITED	ICEHGL PTE. LTD.
2025/07420	ADIVO GMBH	ZOETIS SERVICES LLC
2022/06765	SENDA BIOSCIENCES, INC.	SAIL BIOMEDICINES, INC.
2021/02412	ST IP HOLDING AG	ZPNE GROUP GMBH
2021/02412	ZPNE GROUP GMBH	SUPPORTIVE THERAPEUTICS AG
2017/07518	PATENTS PLUS CC	EMV AFRICA (PTY) LTD.
2023/10609	RICHARD FREUND	INMETRICS LTDA.
2024/02284	OTSUKA PHARMACEUTICAL CO., LTD.	TAIHO PHARMACEUTICAL CO., LTD.

Application Number	Assignor	Assignee
2011/04147	RHODIA OPERATIONS	ENERGY SOLUTIONS (US) LLC
2022/07280	OTSUKA PHARMACEUTICAL CO., LTD.	TAIHO PHARMACEUTICAL CO., LTD.
2024/08915	POMSURANCE (PTY) LTD	SWANEPOEL, SUSAN; VAN ROOY, WILLEM ADRIAAN and VAN ROOY, WILHELM LOUIS

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2019/00919	BEIGENE SWITZERLAND GMBH	BEONE MEDICINES I GMBH
2015/08504	BEIGENE SWITZERLAND GMBH	BEONE MEDICINES I GMBH
2023/05653	OSPREY BIOPHARMACEUTICALS, INC.	NIGHTWALK THERAPEUTICS, INC.
2023/05653	NIGHTWALK THERAPEUTICS, INC.	ADAXION THERAPEUTICS, INC.
2019/04708	MICROTEC S.R.L.	MICROTEC S.P.A.
2020/06397	MICROTEC S.R.L.	MICROTEC S.P.A.
2017/04553	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2017/04553	METSO OUTOTEC FINLAND OY	METSO FINLAND OY
2019/05791	VOESTALPINE VAE GMBH	VOESTALPINE RAILWAY SYSTEMS GMBH
2024/02345	ADVANCELL ISOTOPES PTY LIMITED	ADVANCELL PTY LIMITED
2025/01468	ADVANCELL ISOTOPES PTY LIMITED	ADVANCELL PTY LIMITED
2024/08597	PEAK POLAR HOLDING AS	STORM ADAPT GROUP AS

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

No records available

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Not Open	Date
2024/08342	WITHDRAWN	05/11/2025

APPLICATION FOR RESTORATION OF A LAPSED PATENT

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

Notice is hereby given that **REGENERON PHARMACEUTICALS, INC** whose address for service is **DM KIISCH INC, SANDTON** has applied to the registrar for the restoration of Patent No **2018/01103** entitled **NON-HUMAN ANIMALS HAVING A HUMANIZED SIGNAL-REGULATORY PROTEIN GENE** dated **23/09/2014**, which lapsed on **23/09/2017** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **SUPPORTIVE THERAPEUTICS AG** whose address for service is **SPOOR & FISHER, CENTURION** has applied to the registrar for the restoration of Patent No **2021/02412** entitled **ROTOMERIC ISOMERS OF 4-ALKYL-5-HETEROARYL-3H-1,2- DITHIOLE-3-THIONES** dated **17/09/2019**, which lapsed on **28/02/2025** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **COVATION INC.** whose address for service is **SPOOR & FISHER, CENTURION** has applied to the registrar for the restoration of Patent No **2018/07827** entitled **PROCESS FOR THE PRODUCTION OF FURFURAL USING A WATER-IMMISCIBLE ORGANIC SOLVENT** dated **02/06/2017**, which lapsed on **02/06/2023** owing to the non-payment of the prescribed renewal fee.

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

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: SOLZEN ENERGY (PTY) LTD. Unit 80, Franklin on 8th, No. 19 Eighth Street, Noordwyk, MIDRAND 1687, Gauteng, SOUTH AFRICA. Permission to amend the specification of letters patent no: **2022/06523** of **13/06/2022** for **NANOCOMPOSITE MATERIAL FOR ENERGY STORAGE DEVICES**.

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

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

Registrar of Patents

Applicant: HAISCO PHARMACEUTICAL GROUP CO., LTD. of NO.17, SANXIANG AVENUE, ZEDANG TOWN, SHANNAN CITY, TIBET, 856000, PEOPLE'S REPUBLIC OF CHINA. Request permission to amend the specification of letters patent no: **2025/01471** of **17 FEBRUARY 2025** for **PREPARATION AND USE OF QUINAZOLINONE DERIVATIVE AS KINASE INHIBITOR**.

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: Ono Pharmaceutical Co., Ltd. 1-5, Doshomachi 2-chome, Chuo-ku, OSAKA-SHI 5418526, OSAKA, JAPAN. Permission to amend the specification of letters patent no: **2022/01784** of **10/02/2022** for **SALT AND CRYSTAL FORM OF COMPOUND HAVING AGONISTIC ACTIVITY TO S1P5 RECEPTOR.**

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: LEIUTIS PHARMACEUTICALS LLP Plot no. 23, TIE 1st Phase, Balanagar, Telangana 500037 Hyderabad. Permission to amend the specification of letters patent no: **2024/06489** of **23/08/2024** for **NOVEL NAPROXEN SODIUM PREPARATIONS FOR PARENTERAL ADMINISTRATION.**

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: 2014/05094. 22: 2014/07/11. 43: 2025/09/04

51: A61K

71: Bioverativ Therapeutics Inc.

72: CHHABRA, Ekta Seth, LIU, Tongyao, PETERS, Robert, JIANG, Haiyan

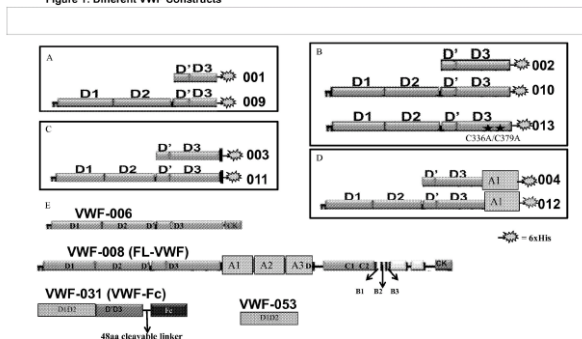
33: US 31: 61/586,099 32: 2012-01-12

54: CHIMERIC FACTOR VIII POLYPEPTIDES AND USES THEREOF

00: -

The present invention provides a VWF fragment comprising the D' domain and D3 domain of VWF, a chimeric protein comprising the VWF fragment and a heterologous moiety, or a chimeric protein comprising the VWF fragment and a FVIII protein and methods of using the same. A polypeptide chain comprising a VWF fragment of the invention binds to or is associated with a polypeptide chain comprising a FVIII protein and the polypeptide chain comprising the VWF fragment can prevent or inhibit binding of endogenous VWF to the FVIII protein. By preventing or inhibiting binding of endogenous VWF to the FVIII, which is a half-life limiting factor for FVIII, the VWF fragment can induce extension of half-life of the FVIII protein. The invention also includes nucleotides, vectors, host cells, methods of using the VWF fragment, or the chimeric proteins.

Figure 1: Different VWF Constructs



21: 2018/06884. 22: 2018/10/16. 43: 2025/06/23

51: E21F

71: NICAUD COMPANIES 22 (PTY) LTD

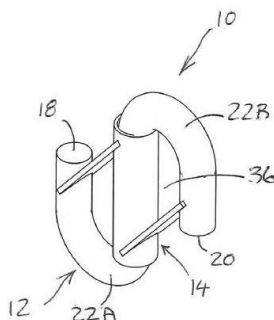
72: VISSER, Henri, GREYVENSTEYN, James

33: ZA 31: 2017/08060 32: 2017-11-28

54: NET HOOK RETAINER

00: -

The invention provides a safety net attachment device which includes a hook which includes a central spine and first and second hook formations, each extending away from the spine in an opposed direction; and a clip element of a resiliently deformable material which has a central connector which engages with the spine in friction fit and which has at least one retaining element which is integral with the connector and which extends at least partially across a space between the spine and an end portion of a respective hook formation.



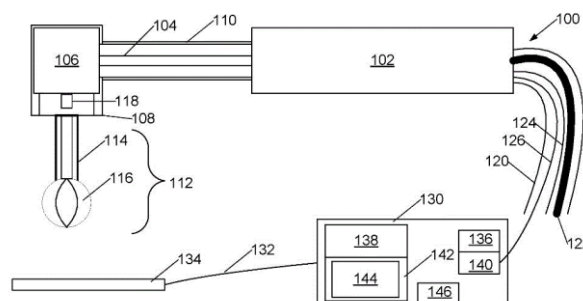
21: 2019/02743. 22: 2019/05/02. 43: 2025/10/20
 51: C07K; A61P
 71: OSE IMMUNOTHERAPEUTICS
 72: POIRIER, Nicolas, MARY, Caroline, VANHOVE, Bernard, THEPENIER, Virginie
 33: EP 31: 16306655.8 32: 2016-12-09
54: ANTIBODIES AND POLYPEPTIDES DIRECTED AGAINST CD127
 00: -

The invention is in the field of antibodies useful in therapeutic and diagnostics applications targeting CD127, the alpha chain of the IL7 receptor, and provides in particular humanized monoclonal antibodies against CD127, particularly human CD127, therapeutic uses thereof, and diagnostics applications.

21: 2019/05961. 22: 2019/09/10. 43: 2025/10/31
 51: A61B; A61C
 71: THE TRUSTEES OF DARTMOUTH COLLEGE
 72: HALTER, Ryan, BUTLER, Rebecca, SALIN, Michael
 33: US 31: 62/468,490 32: 2017-03-08
 33: US 31: 62/475,724 32: 2017-03-23
54: ELECTRICAL IMPEDANCE SENSING DENTAL DRILL SYSTEM CONFIGURED TO DETECT CANCELLOUS-CORTICAL BONE AND BONE-SOFT TISSUE BOUNDARIES
 00: -

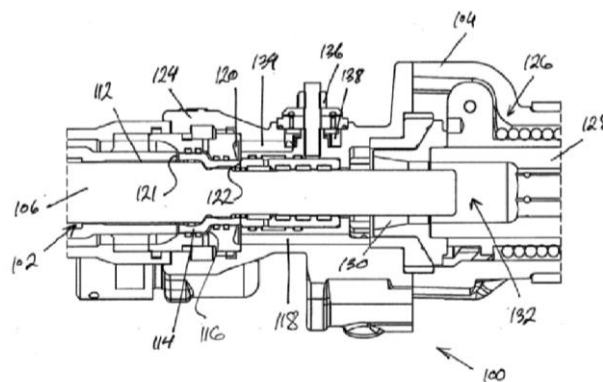
A dental drill system with electrical-impedance sensing indicates when a bit of the drill system approaches cortical- cancellous bone, or bone-soft tissue interfaces. The drill system has a dental drill handset having a cannula bearing electrically coupled to a drilling bit, the drilling bit having an electrically insulated portion and an exposed portion. The cannula bearing is coupled to an electrical impedance spectroscopy sensing device configured to measure impedance between the cannula bearing of the dental drill handset and a ground plate, and a

processing system uses EIS measurements to distinguish when the bit of the drill system approaches cortical- or cancellous bone, or bone-soft tissue interfaces.



21: 2019/06229. 22: 2019/09/20. 43: 2022/01/27
 51: E21B
 71: HYDRO POWER EQUIPMENT (PTY) LTD
 72: BÜHRMANN, Rudolph
 33: ZA 31: 2018/03617 32: 2018-09-20
54: A ROCK DRILL
 00: -

A water powered rock drill has a reciprocating piston and a front head casing including a rotation mechanism. An annular end seating poppet valve is located in a valve chamber provided in a sidewall of a piston return chamber arranged between a supply seat and an exhaust seat. At least one exhaust passage leads from an annular exhaust plenum at the exhaust seat to provide a exhaust water feed to an impact zone for a rear end of a drill steel. An air inlet suction passage is fitted with a check valve that is connected to the at least one exhaust passage for introduction of air to the exhaust water.



21: 2019/08168. 22: 2019/12/09. 43: 2025/09/01
 51: G21F
 71: Deep Isolation, Inc.

72: MULLER, Richard A., MULLER, Elizabeth A.
33: US 31: 62/515,050 32: 2017-06-05

54: STORING HAZARDOUS MATERIAL IN A SUBTERRANEAN FORMATION

00: -

A hazardous material storage repository includes a drillhole extending into the Earth and including an entry at least proximate a terranean surface, the drillhole including a substantially vertical drillhole portion, a transition drillhole portion coupled to the substantially vertical drillhole portion, and a hazardous material storage drillhole portion, at least one of the transition drillhole portion or the hazardous material storage drillhole portion including an isolation drillhole portion; a storage canister positioned in the hazardous material storage drillhole portion, the storage canister sized to fit from the drillhole entry through the substantially vertical drillhole portion, the transition drillhole portion, and into the hazardous material storage drillhole portion of the drillhole, the storage canister including an inner cavity sized to enclose hazardous material; and a seal positioned in the drillhole, the seal isolating the hazardous material storage drillhole portion of the drillhole from the entry of the drillhole.

21: 2019/08329. 22: 2019/12/12. 43: 2025/09/18
51: B60P; B60R

71: METSO FINLAND OY

72: HENRIK PERSSON, FREDRIK LARSSON

33: EP 31: 17177444.1 32: 2017-06-22

54: A LINING FOR A HAUL TRUCK BODY, A TRANSITION LINING ELEMENT AND A METHOD FOR FASTENING A LINING

00: -

The disclosure relates to a lining (100) for a haul truck body (10), said lining (100) comprising a plurality of main lining elements (110) arranged to extend over main surfaces of said haul truck body (10), and a plurality of transition lining elements (120) arranged to extend over edge and/or corner portions of the haul truck body (10), wherein each transition lining element (120) forms a lining transition between at least two non-parallel main lining elements (110) of said plurality of main lining elements (110), and wherein said plurality of transition lining elements (120) comprises at least one non-linear transition lining element (200,300) which has a first (211,311) and a second (212,312) leg portion extending in non-parallel first (221,321)

and second (222,322) leg directions, respectively. The disclosure further relates to a transition lining element (200,300,400) for a haul truck body (10) and a method for assembling a lining (100).

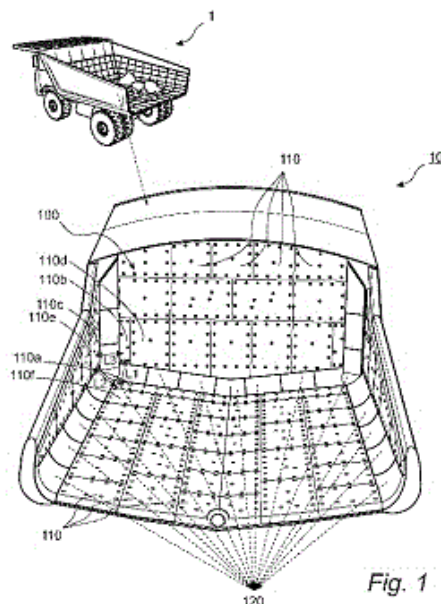


Fig. 1

21: 2020/02080. 22: 2020/05/04. 43: 2025/10/03
51: A61K

71: TAKEDA PHARMACEUTICALS U.S.A., INC.

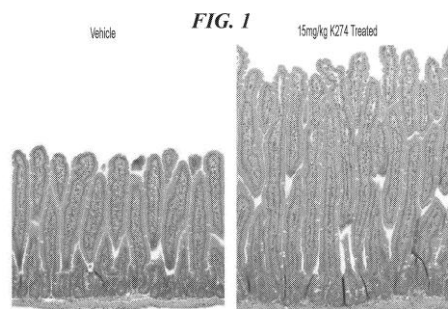
72: PAN, Clark, NORTON, Angela, STRACK-LOGUE, Bettina, OLIVIER, Clément

33: US 31: 62/582,055 32: 2017-11-06

54: GLP-2 ANALOGS AND PEPTIBODIES FOR ADMINISTRATION BEFORE, DURING OR AFTER SURGERY

00: -

GLP-2 analogs, such as teduglutide, and fusion proteins of GLP-2 with immunoglobulin are administered before, during or after surgery, particularly resection of the small intestine. When short bowel syndrome develops after surgical resection of the small intestine, parenteral nutrition is usually necessary to compensate for reduced absorption of water and nutrients across the small intestine. GLP-2 analogs and GLP-2 fusion proteins promote growth of small intestine, improve nutrient absorption and can reduce the need for parenteral nutrition after surgery.



21: 2020/02151. 22: 2020/05/04. 43: 2025/09/09
 51: A61K; A61P; C07K; C12N; C12P
 71: Chugai Seiyaku Kabushiki Kaisha
 72: TERANISHI, Yuri, KATO, Kazuki, KOGA, Hikaru,
 IGAWA, Tomoyuki, YAMAGUCHI, Kazuki, SOEDA,
 Tetsuhiro
 33: JP 31: 2017-189647 32: 2017-09-29
**54: MULTISPECIFIC ANTIGEN-BINDING
 MOLECULE HAVING BLOOD COAGULATION
 FACTOR VIII (FVIII) COFACTOR FUNCTION-
 SUBSTITUTING ACTIVITY, AND
 PHARMACEUTICAL FORMULATION
 CONTAINING SAID MOLECULE AS ACTIVE
 INGREDIENT**

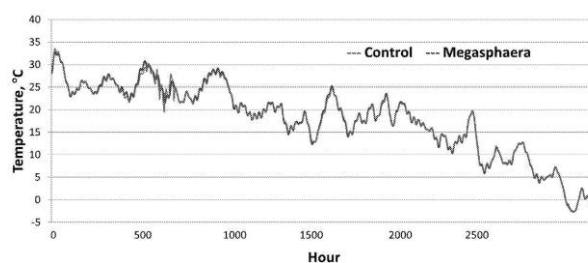
00: -
 The inventor has succeeded in discovering a
 bispecific antibody that raises FVIII cofactor function-
 substituting activity without raising FIX activated
 inhibitory activity.

21: 2020/02342. 22: 2020/05/04. 43: 2025/09/09
 51: A23C; A23L
 71: Société des Produits Nestlé S.A.
 72: ROUSSET, Philippe, SAFFON, Maxime,
 STEFFES, Peter, FU, Xiaoping
 33: US 31: 62/566,768 32: 2017-10-02
**54: NATURAL CREAMER WITH HIGH
 TOLERANCE TO ACIDITY AND MINERALS IN
 BEVERAGE**

00: -
 Natural Creamers for providing whitening and
 indulgent texture/mouthfeel of beverage and food
 products are provided. The creamers have long-term
 stability, high whitening capacity and a pleasant
 mouthfeel when added to beverage and food, while
 being free from artificial additives the creamers
 comprising plant oil and plant proteins, and being
 further characterized in that the creamers comprise
 baking soda and citrus fruit juice concentrate,
 wherein the citrus fruit juice concentrate comprises

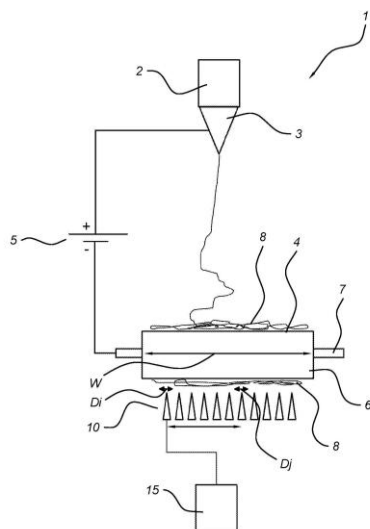
acid component comprising citric acid and malic
 acid.

21: 2020/02614. 22: 2020/05/11. 43: 2025/11/12
 51: A01N; A23K; C12N
 71: AXIOTA U.S., INC., THE KANSAS STATE
 UNIVERSITY RESEARCH FOUNDATION
 72: DROUILLARD, James, Scott, MILLER, Kevin
 Alan, APERCE, Celine Caroline, HORNE, Taylor,
 Marie, ELLERMAN, Tara Jo, HERREN, Gina, Rae
 33: US 31: 62/575,229 32: 2017-10-20
**54: METHODS OF PRODUCING ENSILED PLANT
 MATERIALS USING MEGASPHAERA ELSDENII**
 00: -
 The present invention relates to methods of
 producing ensiled plant materials using the
 anaerobic bacterium *Megasphaera elsdenii* and
 ensiled plant materials thereof.



21: 2020/02888. 22: 2020/05/18. 43: 2025/09/09
 51: B05B; D01D; D04H
 71: Innovative Mechanical Engineering Technologies
 B.V.
 72: SOLBERG, Ramon Hubertus Mathijs, SIMONET,
 Marc, JANSSEN, Paul Johannes Franciscus Maria
 33: NL 31: 2019764 32: 2017-10-19
54: ELECTROSPINNING DEVICE AND METHOD
 00: -
 An electrospinning device (1; 30) is provided
 comprising: - a container (2) for holding a liquid
 comprising a polymer melt or a polymer solution; - a
 nozzle (3) arranged to outlet a stream of the liquid
 from the container; - a collecting surface (4) for
 collecting electro spun material coming from the
 nozzle during an electrospinning process so as to
 form a fibrous structure (8) on the collecting surface
 (4); - a voltage supply system (5) arranged to create
 a voltage difference between the nozzle and the
 collecting surface (4), - one or more electrostatic
 emitters (10; 38) arranged to locally distribute
 positive and/or negative ions onto the fibrous

structure, and - one or more rotatable bodies (6; 36) arranged to cause the collecting surface (4) to face the nozzle (3) and the electrostatic emitters (10; 38) in turn.

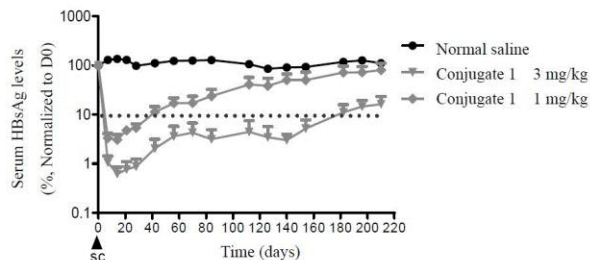


21: 2020/03137. 22: 2020/05/27. 43: 2025/09/02
51: C12N A61P A61K
71: SUZHOU RIBO LIFE SCIENCE CO., LTD
72: ZHANG, Hongyan, GAO, Shan, KANG, Daiwu
33: CN 31: 201711249333.8 32: 2017-12-01
33: CN 31: 201711482970.X 32: 2017-12-29

54: NUCLEIC ACID, COMPOSITION AND CONJUGATE CONTAINING SAME, AND PREPARATION METHOD AND USE

00: -

Provided are a siRNA for suppressing hepatitis B virus gene expression, and a pharmaceutical composition and conjugate containing the siRNA. Each nucleotide in the siRNA is an independent modified nucleotide. The siRNA contains a positive-sense strand and an antisense strand. The positive-sense strand of the siRNA contains a nucleotide sequence 1 having an equal length to a nucleotide sequence shown in SEQ ID NO: 155 with no more than three nucleotide differences, and the antisense strand of the siRNA contains a nucleotide sequence 2 having an equal length to a nucleotide sequence shown in SEQ ID NO: 156 with no more than three nucleotide differences.

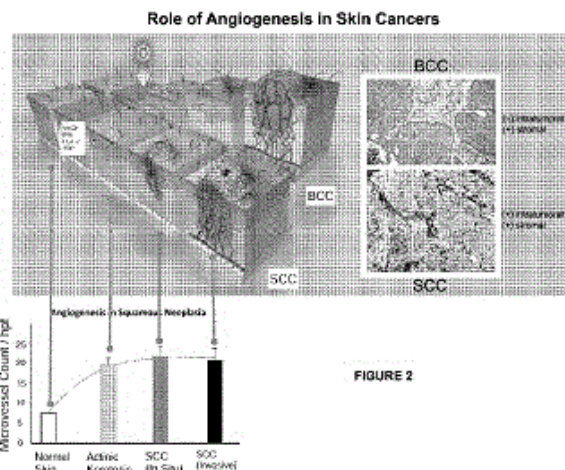


21: 2020/04470. 22: 2020/07/20. 43: 2025/09/08
51: A61K; A61P
71: LI, Vincent W
72: VINCENT W LI, WILLIAM W LI
33: US 31: 62/609,109 32: 2017-12-21

54: COMPOSITIONS AND METHODS FOR TREATING NEOPLASIA

00: -

The invention relates to unique compositions and methods for treating neoplasia. Specifically, the invention relates to an off-label combinatorial therapy that modulates angiogenesis and immune response to treat neoplasia.



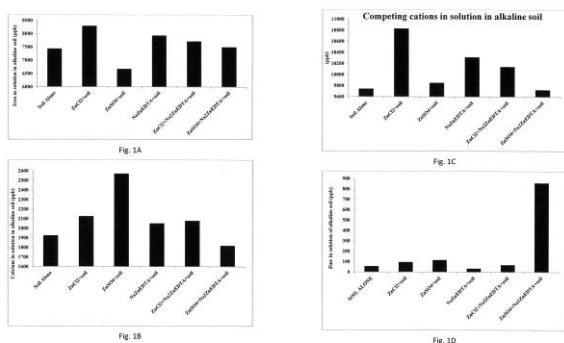
21: 2020/04956. 22: 2020/08/11. 43: 2025/09/08
51: C05G
71: KOCH AGRONOMIC SERVICES LLC
72: BABU, Tapasya, MARTIN, Elliott, GEIGER, Robert A., GAIGE, Andres Reyes
33: US 31: 62/619,663 32: 2018-01-19

54: MULTI-SOURCE MICRONUTRIENT COMPOSITION AND METHODS OF TREATING SOIL WITH THE SAME

00: -

The present disclosure is concerned with fertilizer compositions that provide controlled, delayed, and/or

prolonged release of micronutrients in soil. In one embodiment, the inventive composition comprises a dry, powdered blend of a first target micronutrient source in chelated form and a second source of the same target micronutrient but provided in non-chelated form. In another embodiment, the inventive composition provides at least two sources of boron, with one source being a water-soluble form and the other source being a water-insoluble form. Regardless of the embodiment, the methods of using the fertilizer composition results in increased uptake of the particular micronutrient, nitrogen, and/or potassium compared to the prior art.



21: 2020/05723. 22: 2020/09/15. 43: 2025/09/30
51: A61K; C12N

71: ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI

72: JULIO A AGUIRRE-GHISO

33: US 31: 62/648,166 32: 2018-03-26

54: METHODS OF TREATING MINIMAL RESIDUAL CANCER

00: -

Disclosed herein are methods of treating minimal residual cancer in a subject. The methods involve contacting disseminated cancer cells (DCCs) in a subject with a bone morphogenetic protein 7 (BMP7) derivative protein, where the contacting induces or maintains dormancy in the contacted DCCs of the subject to treat minimal residual cancer in the subject. Also disclosed are methods that involve contacting DCCs in a subject with a protein kinase RNA-like endoplasmic reticulum kinase (PERK) inhibitor selected from LY2, LY3, and LY4, where said contacting eradicates DCCs in the subject to treat minimal residual cancer in the subject.

21: 2020/06137. 22: 2020/10/02. 43: 2025/08/18
51: A61K; C07D

71: AURIGENE DISCOVERY TECHNOLOGIES LIMITED

72: CHIKKANNA, Dinesh, PANIGRAHI, Sunil Kumar, SAMMETA, Srinivasa Raju

33: IN 31: 201841010656 32: 2018-03-22

54: SUBSTITUTED IMIDAZOLIDIN-2-ONE DERIVATIVES AS PRMT5 INHIBITORS

00: -

The present invention relates to substituted imidazolidin-2-one derivatives of formula (I) or pharmaceutically acceptable salts thereof. The present invention further provides the methods of preparation of compound of formula (I) and utility as PRMT5 inhibitors. The compounds are useful as medicaments in the treatment of conditions and disorders mediated by PRMT5, such as cancer, metabolic disorders, inflammation, autoimmune disease and hemoglobinopathies.

21: 2021/00299. 22: 2021/01/15. 43: 2022/06/17
51: F16K

71: THE BÜHRMANN TRUST

72: BÜHRMANN, Rudolph

33: ZA 31: 2018/02740 32: 2018-06-15

54: AN ACTUATED VALVE

00: -

An actuated valve includes a main valve closure (102) with a spindle (106) provided thereon and guided for sliding movement in a valve body (104). A by-pass passage (120) extends through the main valve closure (102) with a poppet valve (132) inside the passage (120). An inlet (150) to the passage (120) is provided on a first, high pressure side (HP) of the main valve closure (102), corresponding to the main valve inlet. A control rod (128) extends through a main valve seat (103) from a second side of the main valve closure (102) and into an outlet (122) of the by-pass passage (120). The control rod (128) provides an actuator to first bias a poppet valve closure (132) off an annular poppet seat (148) for pressure equalisation across the main valve and, thereafter, to move the main valve into an open condition. A flow dissipator (152, 156) is provided in the by-pass passage (120).

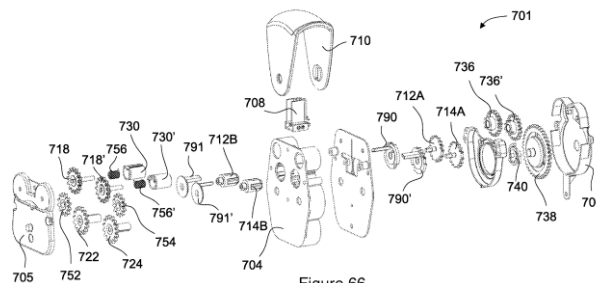
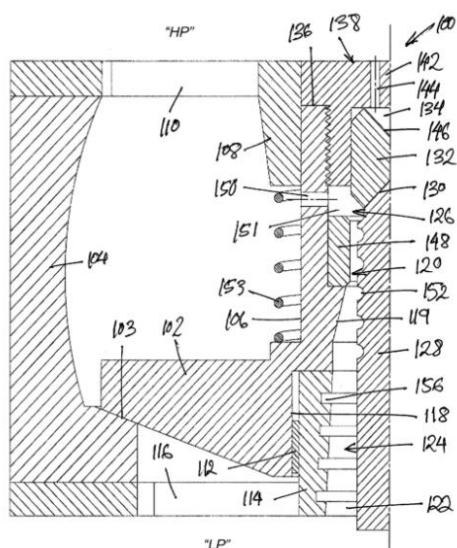


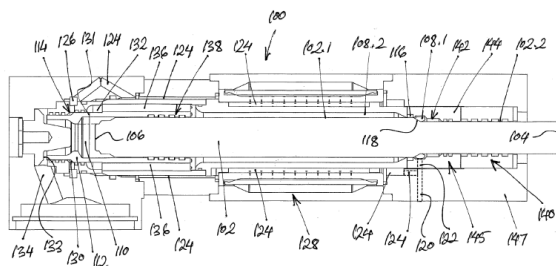
Figure 66

21: 2021/00846. 22: 2021/02/08. 43: 2025/08/26
 51: A61M
 71: SANDOZ AG
 72: AHERN, David Gregory, COCKER, Robin Craig, CHRISTIE, Ewen Humphrey, DAVIDSON, Christopher Iain, TIBBATTs, James Anthony, MUTTI, Paul Christopher Edward, COLLINS, James Terence
 33: GB 31: 1812671.4 32: 2018-08-03
54: AN INHALER DEVICE

00: -
 The present invention relates to inhaler devices (701), and in particular to devices provided with medicament carriers containing individual pockets or blisters of powdered medicament covered by a lidding sheet such as a lidding foil. A common actuator (710) is provided for controlling movement of an indexing system (712, 714) for advancing/indexing a dose and an opening system (790, 791) for opening a dose such that progression of the opening system (790, 791) is disproportional to progression of the indexing system (712, 714) during movement of the common actuator (710).

21: 2021/01930. 22: 2021/03/23. 43: 2022/05/30
 51: E21B
 71: HYDRO POWER EQUIPMENT (PTY) LTD
 72: BÜHRMANN, Rudolph
 33: ZA 31: 2018/03025 32: 2018-08-23
54: A PERCUSSION MECHANISM

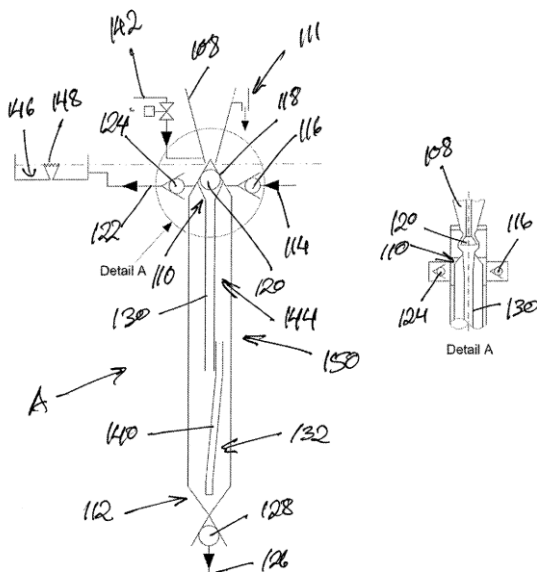
00: -
 An impact mechanism (100) has a cylindrical poppet valve (112) provided in a valve chamber (114) located in a sidewall of a drive chamber (110). A switching seal (116) is located in a return chamber (108). A fluid inlet is connected to the return chamber (108) in front of the switching seal (116) and to the valve chamber (114). A drive chamber (110) supply passage extends from behind the switching seal (116) in the return chamber (108). Valve chamber (114) pressure biases the poppet valve (112) to close a drive chamber (110) inlet. Towards an end of a return stroke, the piston (102) moves the poppet valve (112) off a drive chamber (108) inlet seat (131) and onto an exhaust passage seat (133). A piston switching shoulder (118) piston enters the switching seal (116) towards an end of the drive stroke to interrupt supply to the drive chamber (110), which allows valve chamber (114) pressure to switch the poppet valve (112) back onto the drive chamber (110) supply seat



21: 2021/02095. 22: 2021/03/26. 43: 2022/06/01
 51: B65G; E21F

71: HYDRO POWER EQUIPMENT (PTY) LTD
 72: FRASER, Peter Duncan
 33: ZA 31: 2018/05859 32: 2018-08-31
54: TRANSPORT AND HOISTING OF SLURRY
 00: -

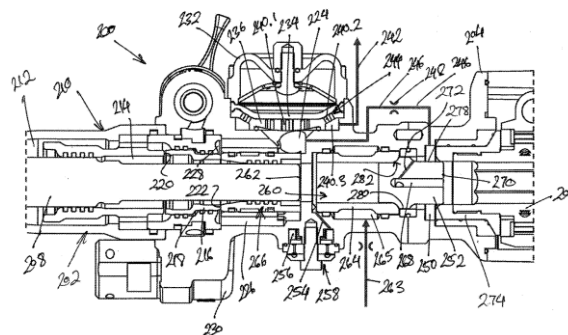
A feeder arrangement (102) for a slurry transport system (100), which is preferably a hydro hoist, includes a chamber with a high pressure water inlet (114), a low pressure water outlet (122), and a low pressure solids inlet (118) at a top end. The low pressure solids inlet (118) has a transfer chute (130) that opens into a lower section of the chamber to maintain a clear-water environment adjacent the top end. A high pressure solids and water outlet (126) is provided at a bottom end. The inlets and outlets are controlled by suitable valves. Three such chambers are preferably operated together in sequence between incoming and outgoing columns in a mine.



21: 2021/02471. 22: 2021/04/14. 43: 2022/06/02
 51: B25D; E21B
 71: HYDRO POWER EQUIPMENT (PTY) LTD
 72: BÜHRMANN, Rudolph
 33: ZA 31: 2018/03618 32: 2018-09-20
54: A ROCK DRILL
 00: -

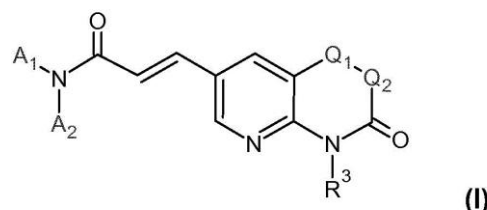
A hydraulic rock drill (200) has an impact mechanism (202) with a reciprocating piston (208) arranged to strike a slidably supported anvil (252) in an impact chamber (260). An anvil chamber (250) is provided to a front side of the impact chamber (260) and connected to a conduit for flushing water. An air inlet

suction passage fitted with a check valve (258) is connected to the impact chamber (260). The anvil (252) provides a transmission valve for flushing water from the impact chamber (260) to the anvil chamber (250). Alternatively, the anvil chamber (250) may be connected an air inlet passage from a source of compressed air.



21: 2021/03516. 22: 2021/05/24. 43: 2025/09/15
 51: A61K; A61P; C07D
 71: Debiopharm International S.A.
 72: GERUSZ, Vincent, TATSIS, Vasileios, SUNOSE, Mihiro, BRAVO, Juan, FINN, Terry, POHIN, Danig, REGENASS, Pierre-Michel
 33: EP(CH) 31: 18205619.2 32: 2018-11-12
54: ANTIBIOTIC COMPOUNDS, METHODS OF MANUFACTURING THE SAME, PHARMACEUTICAL COMPOSITIONS CONTAINING THE SAME AND USES THEREOF
 00: -

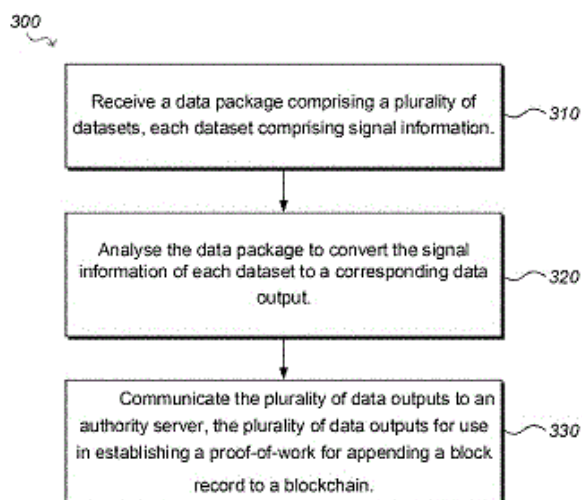
The present invention provides compounds of the general structure (I), which are suitable as antibiotic compounds for the treatment of *N. gonorrhoeae* infections and related infections.



21: 2021/03718. 22: 2021/05/31. 43: 2025/09/18
 51: G06F; H04L
 71: UNIVERSITY OF YORK
 72: ROXANA IULIANA TEODOR, PETER DAMIAN ASHTON, SIAMAK FAYYAZ SHAHANDASHTI, IAN BANCROFT
 33: GB 31: 1820267.1 32: 2018-12-12
 33: GB 31: 1903567.4 32: 2019-03-15
54: PROOF-OF-WORK FOR BLOCKCHAIN APPLICATIONS

00: -

Methods, computing apparatuses, computer readable media and systems are described that are for use with blockchain applications. An authority server may communicate a data package to a mining node. The mining node may receive the data package from the authority server, the data package comprising a plurality of datasets, each dataset comprising signal information. The mining node may analyse the data package to convert the signal information of each dataset to a corresponding data output. The mining node may communicate the plurality of data outputs to an authority server and, upon verification of the plurality of data outputs, the plurality of data outputs may be used in establishing a proof-of-work for appending a block record to a blockchain. Encryption and decryption methods may be used to secure data according to methods described herein. In some examples, the signal information of each dataset relates to a polynucleotide sequence and the corresponding data output relates to a read.

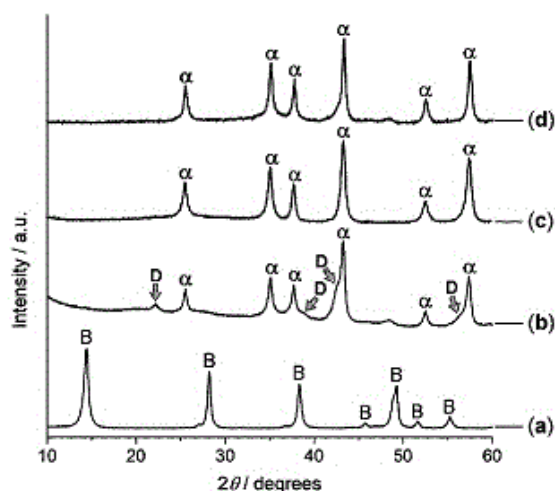


21: 2021/03934. 22: 2021/06/08. 43: 2025/09/18
 51: B01J; C01F
 71: STUDIENGESELLSCHAFT KOHLE MBH
 72: AMOL AMRUTE, FERDI SCHUETH, HANNAH SCHREYER
 33: DE 31: 10 2019 216 426.9 32: 2019-10-24
 33: EP 31: 19154220.8 32: 2019-01-29

54: A PROCESS FOR THE PREPARATION OF HIGH SURFACE AREA ALPHA ALUMINA AND THE USE THEREOF

00: -

The present invention refers to a process for the preparation of a high surface area nanoparticulate alpha alumina.

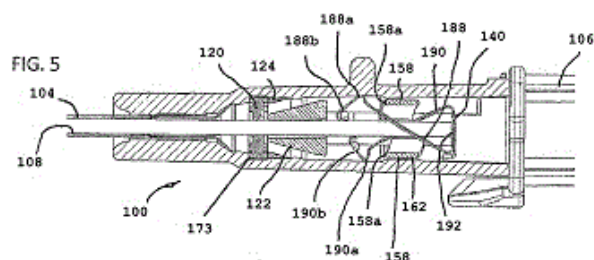


21: 2021/04744. 22: 2021/07/07. 43: 2025/09/01
 51: A61M
 71: B. BRAUN MELSUNGEN AG
 72: KEVIN WOEHR, CHEE MUN PHANG
 33: US 31: 62/780,830 32: 2018-12-17
 33: US 31: 62/866,765 32: 2019-06-26
 33: US 31: 62/882,141 32: 2019-08-02
 33: CN 31: 201922254020.2 32: 2019-12-16

54: OVER-THE-NEEDLE CATHETER ASSEMBLIES AND RELATED MANUFACTURING METHOD

00: -

Needle devices (100) having a component (124) that provides the function of fixing a valve (120) in a standard diameter sized catheter hub (102), the valve (120) and/or the component (124) provide or provides a proximally directed axial force for returning the valve opener (122) from a distal position within the catheter hub (102) to a proximal position within the catheter hub (102) when a male Luer (200) is disconnected from the catheter hub (102). Various components can be located inside a single hub body catheter hub (102) that can restrict fluid flow, allow actuation to permit fluid flow, prevent needlestick injuries, and combinations thereof.



21: 2021/04807. 22: 2021/07/09. 43: 2025/09/01
51: B29C; B65G

71: INTEGRATED PLASTICS PTY LIMITED

72: NICK MELLEN, HO-SEON KIM

33: AU 31: 2017903839 32: 2017-09-21

33: AU 31: 2017904831 32: 2017-11-30

33: AU 31: 2018900795 32: 2018-03-09

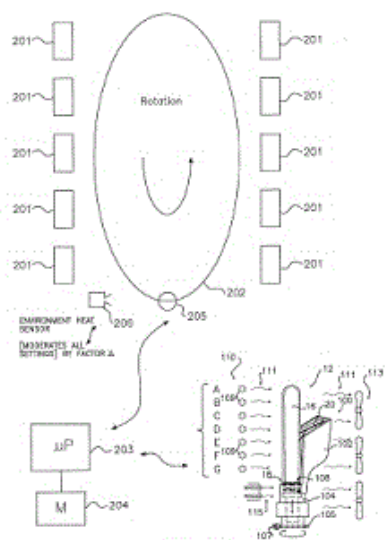
33: AU 31: 2018900977 32: 2018-03-23

33: AU 31: 2018901184 32: 2018-04-10

54: CONTINUOUS BLOW MOULDING MACHINE, PREFORMS, SYSTEM AND PROCESS

00: -

A continuously rotating, non-symmetric preform feed, stretch-blow-moulding machine dedicated to the stretch-blow-moulding of containers from non-symmetric injection moulded preforms; the non-symmetric preforms including an integral handle extending from a first junction point to a second junction point on a body of the preform; the body of the preform and the integral handle constituted from the same material.



21: 2021/04920. 22: 2021/07/13. 43: 2025/09/01
51: A61K; A61P

71: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

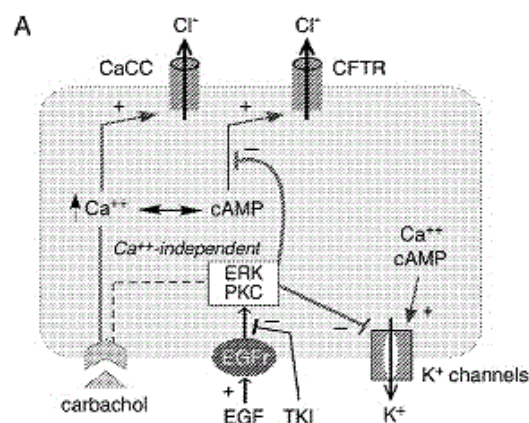
72: ALAN S VERKMAN

33: US 31: 62/793,291 32: 2019-01-16

54: METHODS OF TREATING TYROSINE KINASE INHIBITOR-INDUCED DIARRHEA

00: -

The disclosure is directed to methods of treating tyrosine kinase inhibitor-induced diarrhea by administering a potassium channel inhibitor, or a CFTR chloride channel inhibitor, or a combination thereof.



21: 2021/04995. 22: 2021/07/15. 43: 2025/09/01

51: A61K

71: LETI PHARMA S.L.

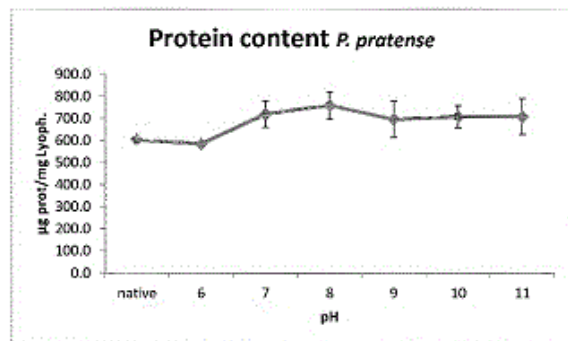
72: MARTA ROMÁN-ESCUTIA, MARÍA MORALES, MARÍA TERESA GALLEGU, JERÓNIMO CARNÉS SÁNCHEZ

33: EP 31: 19382030.5 32: 2019-01-17

54: METHODS OF PURIFYING AN ALLERGEN EXTRACT

00: -

The invention relates to processes for producing semi-purified and purified allergen extracts and pharmaceutical compositions and vaccines for use in the diagnosis and treatment of allergy. In one aspect of the invention, a process for producing a depigmented allergen extract is provided, the process comprising: a) basifying a native allergen extract; and b) removing molecules having a molecular size of less than 3.5 kDa; and c) adjusting the pH to neutrality; thereby to produce a depigmented allergen extract.



21: 2021/05283. 22: 2021/07/26. 43: 2025/09/01
51: A01N; C07D; A01P

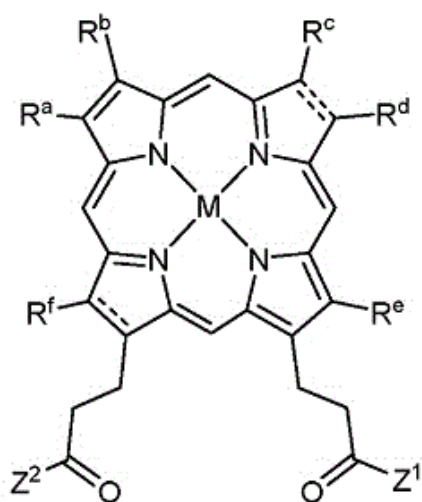
71: Nutrien AG Solutions (Canada) Inc.

72: MICHAEL FEFER, JUN LIU, YUICHI
TERAZONO, KENNETH NG, YOUQING SHEN
33: US 31: 62/806,084 32: 2019-02-15

54: THE USE OF PROTOPORPHYRIN IX DERIVATIVES TO IMPROVE THE HEALTH OF PLANTS

00: -

Provided herein are compounds of general Formula (I) or agriculturally acceptable salts thereof. The compounds of Formula (I) can be used to improve the health of plants. For example, the compounds of Formula (I) can be used to inhibit a microbial pathogen of a plant, or to increase resistance of a plant to one or more abiotic stress.



(I)

21: 2021/05643. 22: 2021/08/10. 43: 2025/09/08
51: C07C; C07F

71: RADIUS PHARMACEUTICALS, INC.

72: MICHAEL MARKEY

33: US 31: 62/804,391 32: 2019-02-12

54: PROCESSES AND COMPOUNDS

00: -

Useful processes of preparation and intermediates useful for the preparation of Compound 1, a selective estrogen receptor alpha (ERα) modulator/degrader (SERM/SERD), having utility for the treatment of ER+ cancers including breast cancer are described.

21: 2021/06312. 22: 2021/08/30. 43: 2025/09/08

51: C12Q

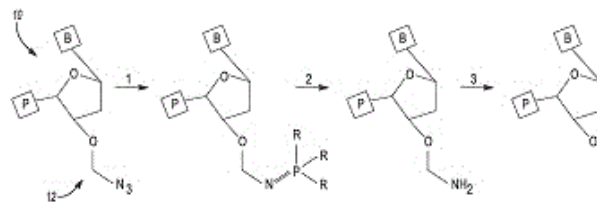
71: ILLUMINA, INC., ILLUMINA CAMBRIDGE
LIMITED

72: WAYNE N GEORGE, BRIAN D MATHER,
ANDREW A BROWN, PIETRO GATTI
LAFRANCONI, MARIA CANDELARIA ROBERT
BACIGALUPO, ANTOINE FRANCAIS, XIAOHAI LIU
33: US 31: 62/948,605 32: 2019-12-16

54: KITS AND FLOW CELLS

00: -

An example of a kit includes a flow cell and a cleavage mix. An example flow cell includes a substrate; a catalytic polymeric hydrogel on the substrate; the catalytic polymeric hydrogel including a deblocking catalyst; and an amplification primer attached to the catalytic polymeric hydrogel. The deblocking catalyst accelerates cleavage of a blocking group of a 3' OH blocked nucleotide introduced to the flow cell and incorporated into a template strand attached to the amplification primer. An example of the cleavage mix includes a component to initiate cleavage of the blocking group.



21: 2021/09187. 22: 2021/11/17. 43: 2025/09/10

51: A01M

71: Pelsis Limited

72: KAYE, Mathew Varghese

33: GB 31: 1905632.4 32: 2019-04-23

54: AN INSECT TRAP

00: -

The invention relates to an insect trap (10) and more particularly to an insect trap comprising a back housing (12), a cover (16) capable of transmitting light there through or a fascia, and a light source comprising light emitting diode strips (22), which emit ultra violet (UV) light. It relates to particularly configurations where the light is directed in given directions to improve capture efficiency.

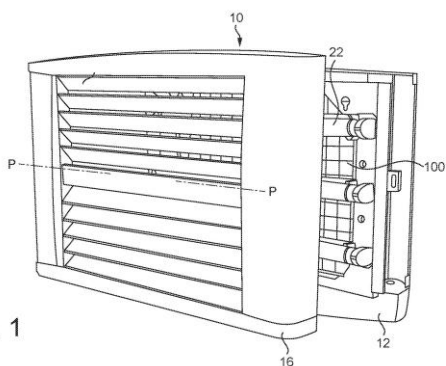


FIG. 1

21: 2022/01794. 22: 2022/02/10. 43: 2025/09/18

51: A61K; C07D; A61P

71: VERTEX PHARMACEUTICALS
INCORPORATED72: YI SHI, KEVIN J GAGNON, JICONG LI,
JENNIFER LU, ALES MEDEK, MUNA SHRESTHA,
MICHAEL WALDO, BEILI ZHANG, CARL L
ZWICKER, COREY DON ANDERSON, JEREMY J
CLEMENS, THOMAS CLEVELAND, TIMOTHY
RICHARD COON, BRYAN FRIEMAN, PETER
(DECEASED) GROOTENHUIS, SARA SABINA
HADIDA RUAH, JASON MCCARTNEY, MARK
THOMAS MILLER, PRASUNA PARASELLI,
FABRICE PIERRE, SARA E SWIFT, JINGLAN
ZHOU

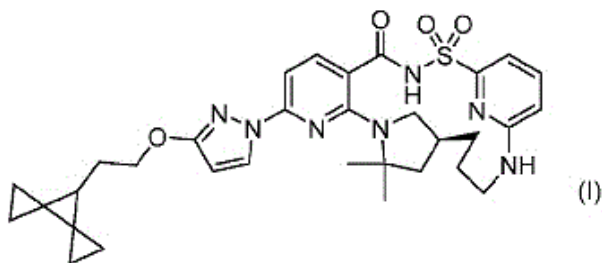
33: US 31: 62/886,565 32: 2019-08-14

33: US 31: 63/015,903 32: 2020-04-27

**54: CRYSTALLINE FORMS OF CFTR
MODULATORS**

00: -

Crystalline forms of Compound I: Formula (I)
pharmaceutically acceptable salts thereof, and
solvates and hydrates thereof are disclosed.
Pharmaceutical compositions comprising the same,
methods of treating cystic fibrosis using the same,
and methods for making the same are also
disclosed.



21: 2022/02468. 22: 2022/02/28. 43: 2025/09/08

51: F25J; G05B; G06F

71: AIR PRODUCTS AND CHEMICALS, INC.

72: SANJAY MEHTA, PRATIK MISRA

33: US 31: 17/193,052 32: 2021-03-05

**54: A METHOD AND APPARATUS FOR
CONTROLLING AN INDUSTRIAL GAS PLANT
COMPLEX**

00: -

There is provided a method of controlling an
industrial gas plant complex comprising a plurality of
industrial gas plants powered by one or more
renewable power sources, the method being
executed by at least one hardware processor, the
method comprising receiving time-dependent
predicted power data for a pre-determined future
time period from the one or more renewable power
sources; receiving time-dependent predicted
operational characteristic data for each industrial gas
plant; utilizing the predicted power data and
predicted characteristic data in an optimization
model to generate a set of state variables for the
plurality of industrial gas plants; utilizing the
generated state variables to generate a set of control
set points for the plurality of industrial gas plants;
and sending the control set points to a control
system to control the industrial gas plant complex by
adjusting one or more control set points of the
industrial gas plants.

21: 2022/02469. 22: 2022/02/28. 43: 2025/09/08

51: F25J; G05B; G06F

71: AIR PRODUCTS AND CHEMICALS, INC.

72: SANJAY MEHTA, PRATIK MISRA

33: US 31: 17/193,029 32: 2021-03-05

**54: A METHOD AND APPARATUS FOR
MANAGING PREDICTED POWER RESOURCES
FOR AN INDUSTRIAL GAS PLANT COMPLEX**

00: -

There is provided a method of determining and
utilizing predicted available power resources from
one or more renewable power sources for one or
more industrial gas plants comprising one or more
storage resources. The method is executed by at
least one hardware processor and comprises:
obtaining historical time-dependent environmental
data associated with the one or more renewable
power sources; obtaining historical time-dependent
operational characteristic data associated with the
one or more renewable power sources; training a
machine learning model based on the historical time-
dependent environmental data and the historical
time-dependent operational characteristic data;

executing the trained machine learning model to predict available power resources for the one or more industrial gas plants for a pre-determined future time period; and controlling the one or more industrial gas plants in response to the predicted available power resources for the pre-determined future time period.

21: 2022/02470. 22: 2022/02/28. 43: 2025/09/08
51: F25J; G05B; G06F

71: AIR PRODUCTS AND CHEMICALS, INC.

72: SANJAY MEHTA, PRATIK MISRA

33: US 31: 17/193,040 32: 2021-03-05

54: METHOD AND APPARATUS FOR MONITORING OPERATIONAL CHARACTERISTICS OF AN INDUSTRIAL GAS PLANT COMPLEX

00: -

There is provided a method of monitoring operational characteristics of an industrial gas plant complex comprising a plurality of industrial gas plants. The method being executed by at least one hardware processor and comprising: assigning a machine learning model to each of the industrial gas plants forming the industrial gas plant complex; training the respective machine learning model for each industrial gas plant based on received historical time-dependent operational characteristic data for the respective industrial gas plant; executing the trained machine learning model for each industrial gas plant to predict operational characteristics for each respective industrial gas plant for a pre-determined future time period; and comparing predicted operational characteristic data for each respective industrial gas plant for a pre-determined future time period with measured operational characteristic data for the corresponding time period to identify deviations in industrial gas plant performance.

21: 2022/02741. 22: 2022/03/07. 43: 2025/09/25
51: H04L

71: ZTE CORPORATION

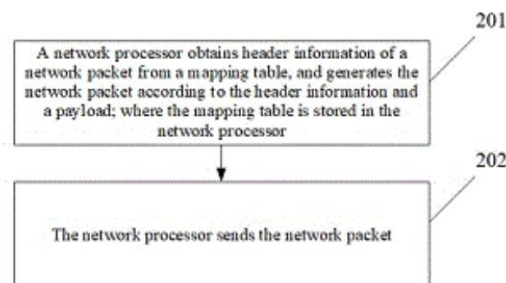
72: ZHEN LIN, XIAOYU BAO, ZHONGYUN YU

33: CN 31: 201910734622.X 32: 2019-08-09

54: METHOD FOR SENDING NETWORK MESSAGE, DEVICE AND NETWORK PROCESSOR

00: -

Provided are a method for sending network message, a device, a network processor and a computer-readable storage medium, the method includes: the network processor obtains header information of a network message from a mapping table, generates the network message according to the header information and payload; wherein the mapping table is stored in the network processor; the network processor sends the network message..



21: 2022/03421. 22: 2022/03/23. 43: 2025/10/14
51: A61K; C07D; A61P

71: SHANGHAI HANSOH BIOMEDICAL CO., LTD.,
JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD.

72: SU, Yidong, MAO, Xiaofeng, LI, Kailong, WANG,
Jun, CAI, Jiaqiang, BAO, Rudi

33: CN 31: 201911039123.5 32: 2019-10-29

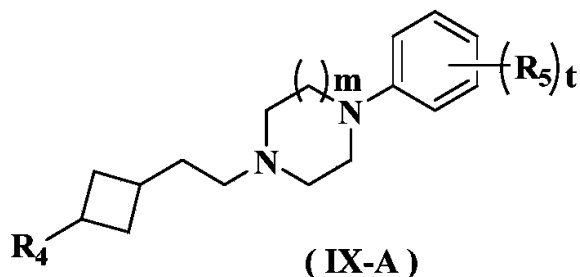
33: CN 31: 202010028151.3 32: 2020-01-10

33: CN 31: 202010725922.4 32: 2020-07-24

54: MODIFIER OF FOUR-MEMBERED RING DERIVATIVE, PREPARATION METHOD AND APPLICATION THEREOF

00: -

Provided is a modifier of a four-membered ring derivative, a preparation method and application thereof. In particular, provided is a compound represented by the general formula (IX-A), a preparation method thereof, a pharmaceutical composition containing the compound, and a use thereof as a G protein-coupled receptor modulator in the treatment or prevention of central nervous system diseases and/or mental diseases. The definition of each substituents in the general formula (IX-A) is same as the definition in the specification.



21: 2022/04518. 22: 2022/04/21. 43: 2025/11/05
51: C10G

71: IFP ENERGIES NOUVELLES

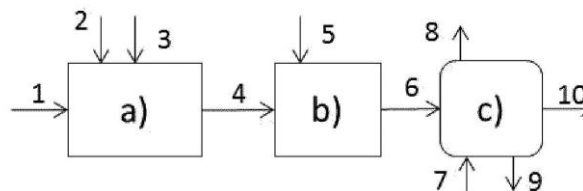
72: WEISS, Wilfried, BONNARDOT, Jerome

33: FR 31: FR1913625 32: 2019-12-02

**54: METHOD FOR PROCESSING PLASTIC
PYROLYSIS OILS WITH A VIEW TO THEIR USE
IN A STEAM-CRACKING UNIT**

00: -

The present invention concerns a method for processing a plastic pyrolysis oil, comprising: a) a step of selective hydrogenation of the feedstock in the presence of hydrogen and at least one selective hydrogenation catalyst, at a temperature between 100 and 150°C, a partial pressure of hydrogen between 1.0 and 10.0 MPa absolute and an hourly space velocity between 1.0 and 10.0 h⁻¹, in order to obtain a hydrogen effluent; b) a step of hydroprocessing said hydrogen effluent in the presence of hydrogen and at least one hydroprocessing catalyst, at a temperature between 250 and 370°C, a partial pressure of hydrogen between 1.0 and 10.0 MPa absolute and an hourly space velocity between 0.1 and 10.0 h⁻¹, in order to obtain a hydroprocessing effluent; c) a step of separating the hydroprocessing effluent originating from step b) in the presence of an aqueous flow, said step being performed at a temperature between 50 and 370°C, in order to obtain at least one gaseous effluent, one aqueous liquid effluent and one hydrocarbon liquid effluent.



21: 2022/05301. 22: 2022/05/12. 43: 2025/10/02

51: A61F; D04H

71: PAUL HARTMANN AG

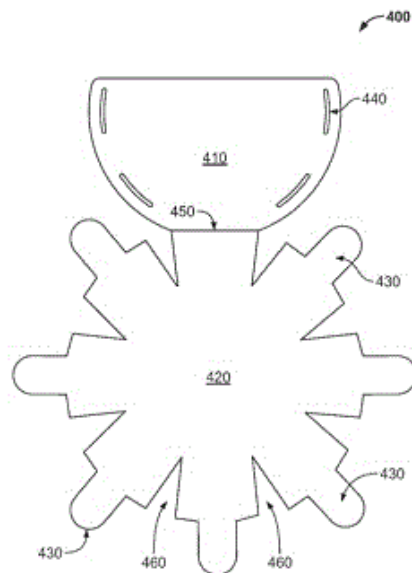
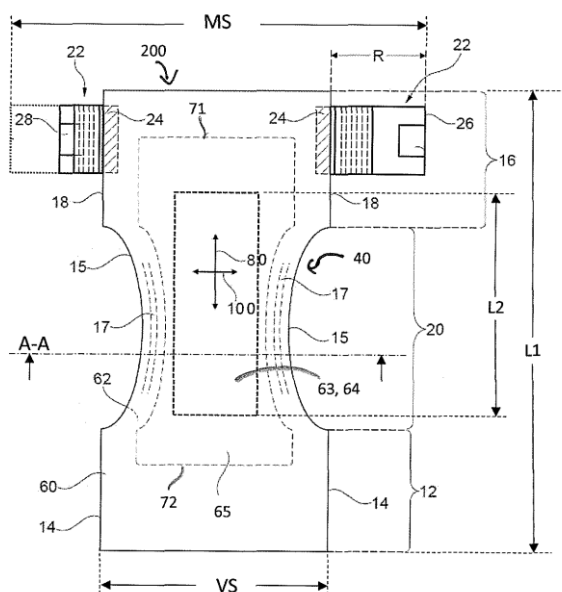
72: MALOWANIEC, Krzysztof-Daniel,
KESSELMEIER, Rüdiger, KAŠPÁRKOVÁ, Pavlína,
MECL, Zdenek

33: EP 31: 19204358.6 32: 2019-10-21

**54: ABSORBENT ARTICLE WITH ACQUISITION
COMPONENT**

00: -

An absorbent article, comprising an absorbent storage core and an acquisition component, the acquisition component comprises a nonwoven acquisition fabric, the nonwoven acquisition fabric comprises filaments, the filaments comprise a first polymeric material and a second polymeric material, the second polymeric material having its melting point lower than the first polymeric material, wherein the second polymeric material extends in the longitudinal direction of the filaments and forms at least a part of the surface of the filaments and the nonwoven fabric comprises filament-to-filament bonds formed of the second polymeric material wherein all components of the filaments are arranged across the cross-section of the filaments in a non-crimpable configuration and the nonwoven acquisition fabric has a compressed absolute void volume of at least 0,010 m³/kg.



21: 2022/05852. 22: 2022/05/26. 43: 2025/09/02
 51: A61F
 71: TEPHA, INC.
 72: SKANDER LIMEM, GERMAN O HOHL LOPEZ,
 SIMON F WILLIAMS

33: US 31: 62/939,786 32: 2019-11-25

54: BREAST IMPLANT WRAPS TO LIMIT MOVEMENT OF BREAST IMPLANTS AND RELATED METHODS

00: -

Described herein are breast implant fixation devices for use in breast reconstruction and breast augmentation. Novel wraps are designed to avert lateral displacement and bottoming out of breast implants, reduce capsular contraction and implant extrusion, eliminate skin indentations and ripples caused by breast implants, and reduce or eliminate palpability. The wraps are adapted to securely fold around the breast implants, limiting relative movement between the wrap and breast implant and reducing wrinkles. Tissue in-growth into the wraps limits movement of the wrap-breast implant assembly and thereby limits movement of the breast implant.

21: 2022/05930. 22: 2022/05/27. 43: 2025/08/27
 51: B01J

71: Rhodia Operations

72: HERNANDEZ, Julien, HARLE, Virginie,
 YAGLIDERE, Oguzhan, ALLERTON, Andrew D.

33: EP(FR) 31: 19315153.7 32: 2019-11-29

33: EP (FR) 31: 19315155.2 32: 2019-11-29

54: ALUMINA HAVING A PARTICULAR PORE PROFILE

00: -

The present invention relates to an alumina having a particular pore profile and good thermal stability. This alumina is also characterised by the fact that it has a high apparent density. The alumina has, after calcination in air at 1100°C for 5 hours: - a pore volume, in the pore size range of between 5 nm and 100 nm, that is between 0.50 and 0.75 ml/g, more particularly between 0.50 and 0.70 ml/g; and - a pore volume, in the pore size range of between 100 nm and 1000 nm, that is less than or equal to 0.20 ml/g, more particularly less than or equal to 0.15 ml/g, or even less than or equal to 0.10 ml/g.

21: 2022/05936. 22: 2022/05/27. 43: 2025/08/27
 51: A61K; A61P; C07K

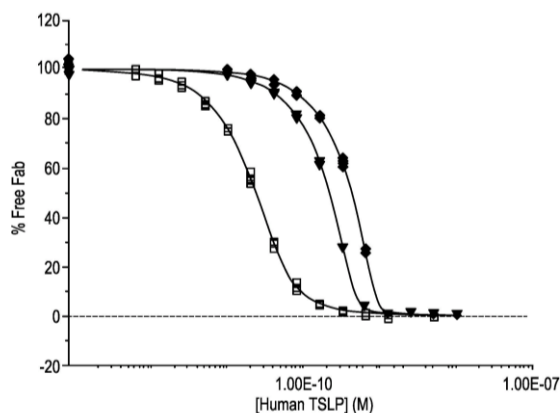
71: MedImmune Limited

72: HUNTINGTON, Catherine Eugenie Chaillan,
 HOE, Susan, MANIKWAR, Prakash, KOLBECK,
 Roland Wilhelm, COHEN, Emma Suzanne,
 GHAZVINI, Saba, LECHUGA-BALLESTEROS,
 David, HANSEN, Kellisa Beth, D'SA, Dexter Joseph
 33: US 31: 62/926,833 32: 2019-10-28

54: DRY POWDER FORMULATIONS OF THYMIC STROMAL LYMPHOPOIETIN (TSLP)-BINDING ANTIBODIES AND METHODS OF USE THEREOF

00: -

The present technology relates generally to dry powder formulations of antibodies specific for thymic stromal lymphopoietin (TSLP), as well as methods of treating asthma, using the dry powder formulations, suitably via pulmonary delivery.



21: 2022/06838. 22: 2022/06/20. 43: 2025/09/23
51: F16N
71: MACNAUGHT PTY LTD
72: UCCELLANI, Marco, SINGH, Prabhjot
33: US 31: 62/962,697 32: 2020-01-17

54: GREASE GUN

00: -

A grease gun comprising a body having first and second chambers, first and second pistons within those first and second chambers, primary and secondary grease channels, a grease outlet and an actuator, is provided. Actuation of the actuator by a user causes first and second pistons to move within first and second chambers. The body may further comprise a pressure sensitive spool which allows the grease gun to move from a high flow/low pressure operation to a high pressure/low flow operation when there is a grease blockage that causes an increase in the pressure in the body.

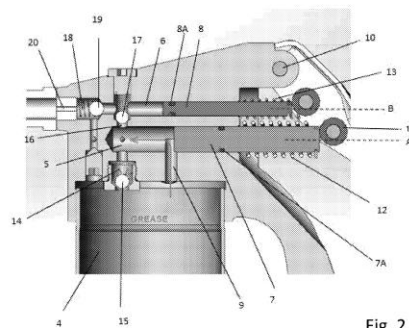


Fig. 2

21: 2022/08019. 22: 2022/07/19. 43: 2025/10/24
51: A01B; A01C; B01D; F04B; G01N
71: PRECISION PLANTING LLC
72: SWANSON, Todd, KOCH, Dale, SCHAEFER, Timothy, MINARICH, Nicholas, LITWILLER, Riley
33: US 31: 63/017,789 32: 2020-04-20
33: US 31: 63/017,840 32: 2020-04-30
33: US 31: 63/018,120 32: 2020-04-30
33: US 31: 63/018,153 32: 2020-04-30

54: MICROFLUIDIC PROCESSING SYSTEM AND METHOD OF AGRICULTURAL SLURRY

00: -

An automated computer-controlled sampling system and related methods for collecting, processing, and analyzing agricultural samples for various chemical properties such as plant available nutrients. The sampling system allows multiple samples to be processed and analyzed for different analytes or chemical properties in a simultaneous concurrent or semi-concurrent manner. Advantageously, the system can process soil samples in the "as collected" condition without drying or grinding. The system generally includes a sample preparation sub-system which receives soil samples collected by a probe collection sub-system and produces a slurry (i.e. mixture of soil, vegetation, and/or manure and water), and a chemical analysis sub-system which processes the prepared slurry samples for quantifying multiple analytes and/or chemical properties of the sample. The sample preparation and chemical analysis sub-systems can be used to analyze soil, vegetation, and/or manure samples. A soil collection system is disclosed which captures and directs samples to the sampling system for processing.

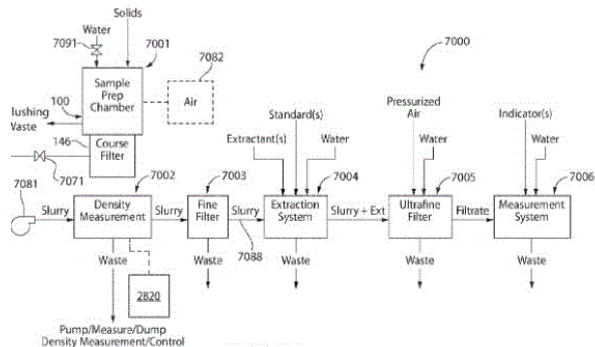


FIG. 1A

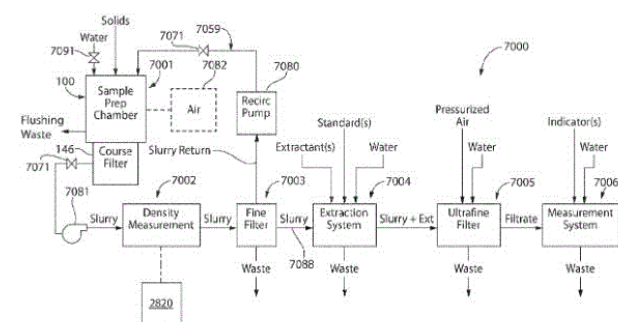
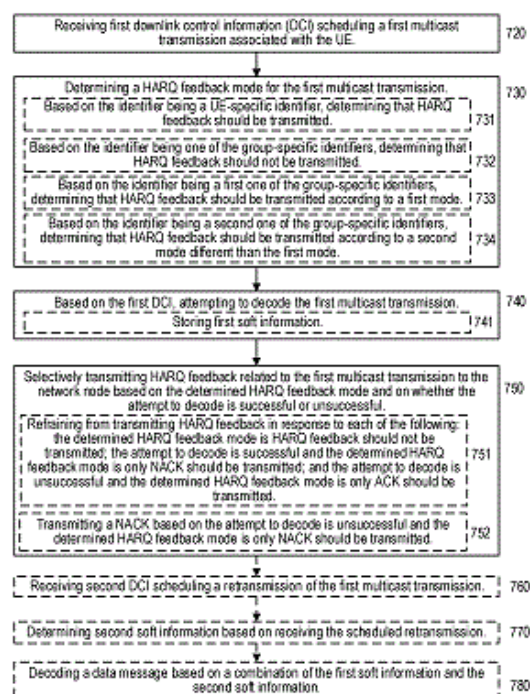


FIG. 1B

for a network node, as well as UEs and network nodes configured to perform such methods.



21: 2022/08086. 22: 2022/07/20. 43: 2025/09/15

51: H04L

71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: STARE, Erik, LEON CALVO, Jose Angel, HUSCHKE, Jörg, PARKVALL, Stefan, MUNGARA, Ratheesh, Kumar, FOLKE, Mats

33: US 31: 62/953,254 32: 2019-12-24

54: HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MECHANISM FOR MULTICAST IN NR

00: -

Embodiments include methods, performed by a user equipment (UE), for hybrid ARQ (HARQ) feedback in relation to multicast transmissions from a network node in a radio access network (RAN). Such methods include receiving, from the network node, first downlink control information (DCI) scheduling a first multicast transmission associated with the UE and determining a HARQ feedback mode for the first multicast transmission. Such methods also include, based on the first DCI, attempting to decode the first multicast transmission; and selectively transmitting HARQ feedback related to the first multicast transmission to the network node based on the determined HARQ feedback mode and on whether the attempt to decode is successful or unsuccessful. Embodiments also include complementary methods

21: 2022/08292. 22: 2022/07/25. 43: 2025/05/02

51: A01K; A01N

71: WANKA TANKA LTD.

72: VARDI, Amnon

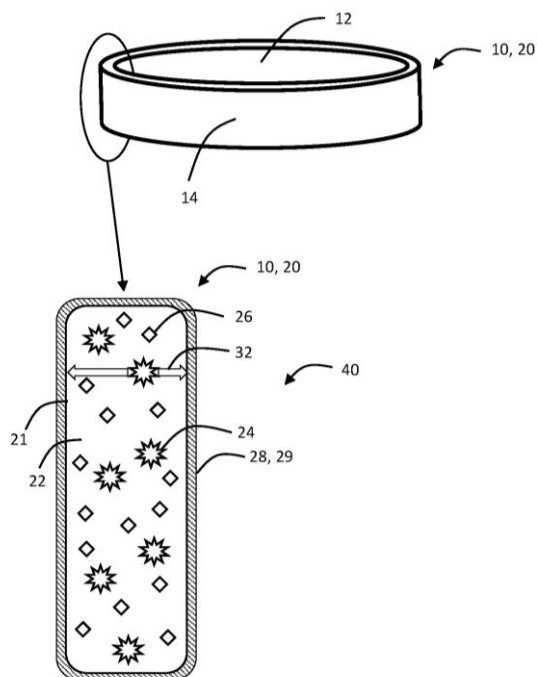
33: US 31: 62/955,461 32: 2019-12-31

54: EXTENDED RELEASE PLASTIC FORMULATION

00: -

A plastic material for extended release of a bio-active agent, the plastic material comprising a structural polymer, at least one bio-active ingredient embedded within the structural polymer as solid islands, a liquid binding material embedded within the structural polymer as granules, and a carrier liquid absorbed within the liquid-absorbent material. The carrier liquid may be sufficiently non-compatible with the structural polymer so that at least a portion of the carrier liquid is released from the liquid-absorbent material through the structural polymer to an outer surface of the plastic material over a period of time, such as a week or more, a month or more, or about three months. The bio-active agent comprised in the at least one bio-active ingredient may be sufficiently soluble in the carrier liquid at room or body temperature so that the carrier liquid

released to the outer surface comprises the bio-active agent in solution.



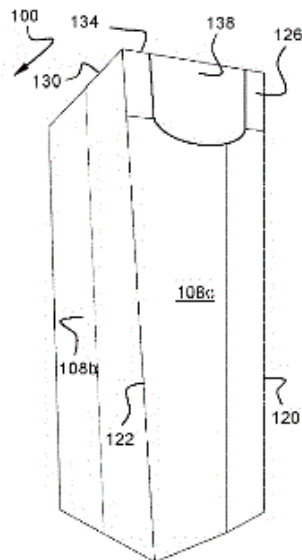
21: 2022/08752. 22: 2022/08/04. 43: 2025/09/02
51: B65D
71: ELOPAK ASA
72: GERD UNNI KVAM, MARTIN KURT WIESER
33: EP 31: 20151241.5 32: 2020-01-10
33: NO 31: 20200803 32: 2020-07-09

54: PAPER-BASED OR PAPERBOARD-BASED CONTAINER AND RELATED METHODS

00: -

A paper-based or paperboard-based container (100) for holding a pourable food product is described, the container comprising: a substantially planar bottom portion; a top portion arranged opposite the bottom portion and comprising a top panel and a top sealing region (126) forming a top seal of the container; and a wall portion extending between the bottom portion and the top portion and comprising a plurality of wall sections (108b, 108c) bordering the top panel and a longitudinal sealing band (14) extending between the bottom portion and the top portion and over at least one of the wall sections, wherein the top sealing region is folded onto said at least one of the wall sections comprising the longitudinal sealing band (14) and being attached thereto. A blank and a

sleeve for producing the container is also described, as is a method for producing the container.



21: 2022/08820. 22: 2022/08/05. 43: 2025/09/02
51: C03B; C03C

71: OWENS-BROCKWAY GLASS CONTAINER INC.

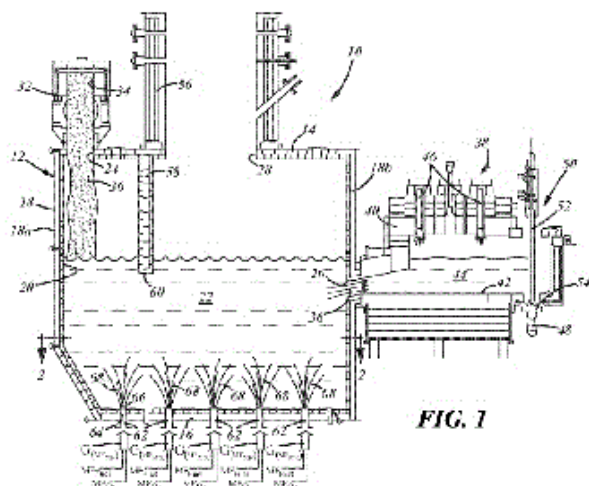
72: SHANE RASHLEY, UDAYA VEMPATI, WILLIAM PINC

33: US 31: 16/788,609 32: 2020-02-12

54: PRODUCING FLINT GLASS USING SUBMERGED COMBUSTION MELTING

00: -

A method of producing colorless glass using submerged combustion melting is disclosed. The method includes operating a submerged combustion melter (10) such that combustion products (68) are discharged from one or more submerged burners (62) combusting a combustible gas mixture (G) that comprises fuel and oxygen. An oxygen-to-fuel ratio of the combustible gas mixture ranges from stoichiometry to 30% excess oxygen relative to stoichiometry, a temperature of a glass melt (22) in the submerged combustion melter is between 1200°C and 1500°C, a residence time of the glass melt is maintained between 1 hour and 10 hours, and a specific throughput rate of molten glass (36) discharged from the submerged combustion melter ranges from 2 tons per day per meter squared of cross-sectional area of the submerged combustion melter [tons/day/m²] to 25 tons/day/m². A method of forming glass containers from the molten glass discharged from the melter is also disclosed.

**FIG. 1**

21: 2022/09002. 22: 2022/08/11. 43: 2025/09/02

51: A61K; A61P

71: DRUGRECUR APS

72: LARS SKRIVER, ALAN WATTS

33: US 31: 62/990,810 32: 2020-03-17

33: EP 31: 20164648.6 32: 2020-03-20

54: LIQUID FORMULATION OF GM-CSF FOR INHALATION

00: -

Provided here is a liquid formulation comprising recombinant human granulocyte macrophage colony stimulating factor (rhGM-CSF) for inhalation by nebulization.

21: 2022/09004. 22: 2022/08/11. 43: 2025/09/02

51: A01M

71: KVERNELAND GROUP NIEUW-VENNEP B.V.

72: RENÉ VAN DER KROGT, THEODORUS LUDOVICUS SIMON KONIJN

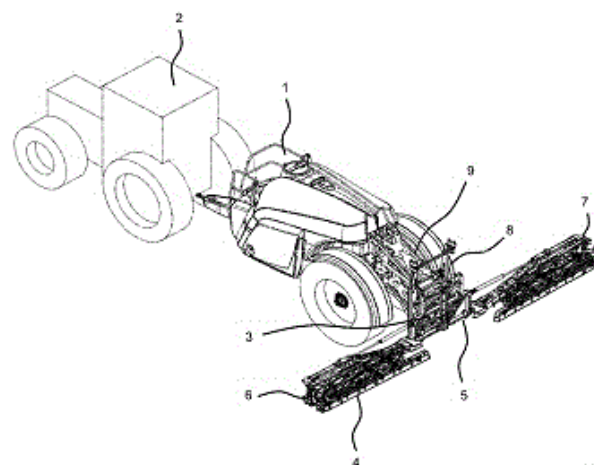
33: EP 31: 20169005.4 32: 2020-04-09

54: A BOOM ARRANGEMENT FOR AN AGRICULTURAL SPRAYER, AGRICULTURAL SPRAYER, AND METHOD FOR OPERATING AN AGRICULTURAL SPRAYER

00: -

The present disclosure refers to a boom arrangement (3) for an agricultural sprayer, comprising: a boom (4) having a middle section (5) provided with a boom frame (8) and boom arms (6, 7) provided on opposite sides of the middle section (5) and vertically foldable between an unfolded working position in which the boom arms (6, 7) are at least partially unfolded and a folded position; a plurality of dispensing elements arranged along the boom (4) and configured to dispense a spraying

material; and a boom support assembly to which the middle section (5) of the boom (4) is connected, the boom support assembly being connectable to a support frame of an agricultural sprayer. A boom arms operating and locking mechanism is provided which is configured to: provide the boom arms (6, 7) in a locked position in which the boom arms (6, 7) are locked; move the boom arms (6, 7) along a vertical line of movement between the locked position and an unlocked position in which the boom arms (6, 7) can be unfolded to the unfolded working position; and move the boom arms (6, 7) between the unlocked position and the unfolded working position. Further, the boom arrangement (3) comprises a locking sensor device configured to detect, for the boom arms (6, 7), the locked position, and provide sensor signals indicative of the boom arms (6, 7) being in the locked position. Further, an agricultural sprayer, and a method for operating an agricultural sprayer are provided.

**Fig. 3**

21: 2022/09343. 22: 2022/08/19. 43: 2025/09/02

51: A63B; E04H

71: LAURENT HEQUILY

72: LAURENT HEQUILY, YVES LECOFFRE

33: FR 31: 2000841 32: 2020-01-28

54: DYNAMIC ARTIFICIAL WAVE FACILITY FOR SURFING PRACTICE

00: -

The facility comprises an artificial wave generator (12) having a mobile water entraining element (20') which is movable along a predetermined path (21), comprising a body (60) defining a water flow chamber (61) opening out through a forward-facing inlet opening (62) located at the front and through an

outlet opening (63) located at the rear of the inlet opening (62) and facing the wave-forming area (16), the body (60) comprising peripheral walls (64, 65, 66, 67) which completely seal the chamber (61) from the inlet opening (62) to the outlet opening (63) except, optionally, on the side facing upwards.

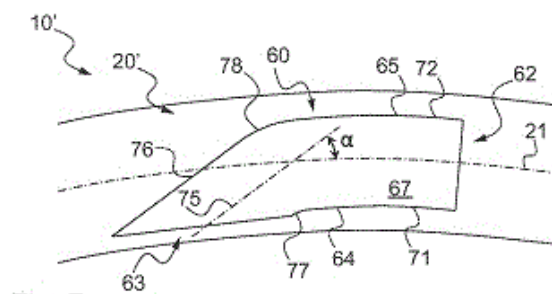


Fig. 7

21: 2022/09405. 22: 2022/08/22. 43: 2025/09/02
51: F03G

71: OLIVER PIESTERT

72: OLIVER PIESTERT

33: EP 31: 20164659.3 32: 2020-03-20

54: METHOD FOR PERFORMING WORKING USING OSMOSIS

00: -

The present application relates to a method and a motor for performing work using osmosis. The method comprises the steps of providing a motor comprising a supply chamber, a pressure chamber comprising at least one inlet and at least one outlet, and a membrane permeable to fluid and at least partially impermeable to salt ions and enabling fluid communication between the supply chamber and the pressure chamber; then providing low salt concentration fluid in the supply chamber; closing the outlet of the pressure chamber; flowing high salt concentration fluid into the pressure chamber; allowing the pressure within the pressure chamber to increase as fluid crosses the membrane into the pressure chamber and using the increased pressure within the pressure chamber to perform work; then opening the outlet of the pressure chamber and allowing the fluid to drain from the pressure chamber and the pressure in the pressure chamber to decrease.

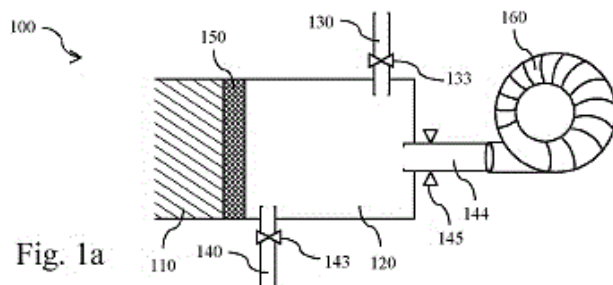


Fig. 1a

21: 2022/09439. 22: 2022/08/23. 43: 2025/09/08

51: A61K; C07D

71: DAEWOONG PHARMACEUTICAL CO., LTD.

72: WOL YOUNG KIM, QING RI LI, DEOK KI EOM, HYAE JUNG HYUN, JOON SEOK PARK

33: KR 31: 10-2020-0023899 32: 2020-02-26

33: KR 31: 10-2021-0025655 32: 2021-02-25

54: METHOD FOR PREPARATION OF HETEROCYCLICAMINE DERIVATIVES

00: -

The present invention relates to a method for preparation of heterocyclicamine derivatives, the method for preparation, according to the present invention, having the advantage of enabling impurity content-reduced heterocyclicamine derivatives to be prepared in high yield.

21: 2022/11001. 22: 2022/10/07. 43: 2025/09/18

51: E21B

71: Caterpillar Global Mining Equipment LLC

72: HUDSON, Charles T., UMAPATHY, Elangovan, R., Prasana

33: US 31: 17/502,912 32: 2021-10-15

54: ROPE TENSIONING SYSTEM FOR DRILLING RIG

00: -

A rotary drilling rig (100) includes a vertical mast (110) and a rotary head (122) that can vertically move along the mast (110) with respect to a work surface (102). To move the rotary head (122) along the mast (110), a hydraulic feed actuator (150) is connected with the rotary head (122) via a wire rope feed system (170) including a hoist rope and a pulldown rope. To maintain the hoist and pulldown ropes in tension and prevent them from dislodging from the respective pulleys of the wire rope system, the hoist and pulldown ropes can be connected to respective hoist and pulldown tensioning actuators (202, 204). The hoist actuator can be associated with a hoist hydraulic circuit (242) and the pulldown

tensioning actuator can be associated with a separate pulldown hydraulic circuit (244).

21: 2022/13470. 22: 2022/12/13. 43: 2025/11/05

51: A24B; A61K; A61P

71: PHILIP MORRIS PRODUCTS S.A.

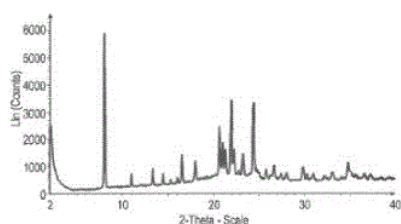
72: SPADARO, Fabiana, ZUBER, Gerard

33: EP 31: 20194434.5 32: 2020-09-03

54: LOW HYGROSCOPICITY ACTIVE POWDER COMPOSITIONS

00: -

An inhalable powder includes crystalline dry powder particles. The crystalline dry powder particles include a solid salt of an alkaloid and a sugar alcohol. The salt is solid at 25 °C. The sugar alcohol may include mannitol, erythritol, myo-inositol, adonitol, xylitol, or a combination thereof. The inhalable powder may be part of a powder system that further includes a second population of particles having a particle size greater than that of the crystalline dry powder particles.



21: 2023/01058. 22: 2023/01/24. 43: 2025/08/18

51: F25D

71: REUSSNER, Michael

72: REUSSNER, Michael

33: AT 31: A 50648/2020 32: 2020-07-30

33: AT 31: A 60041/2021 32: 2021-02-12

33: AT 31: A 60124/2021 32: 2021-04-29

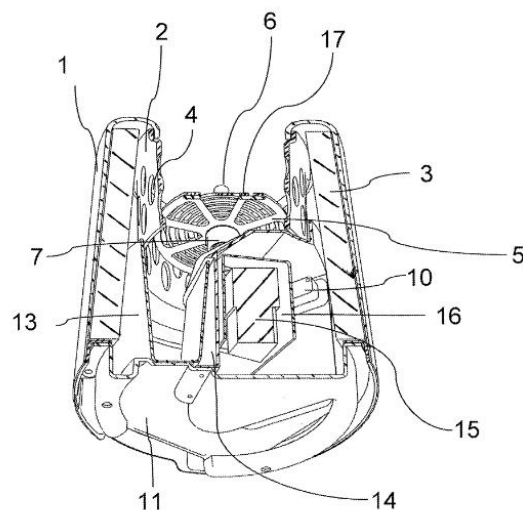
33: AT 31: A 60174/2021 32: 2021-06-21

54: DEVICE FOR CHILLING OR FROSTING GLASSES

00: -

The invention relates to a device for chilling or frosting glasses using carbon dioxide, which has an interior, open to the top, for receiving a glass, wherein the interior is enclosed all around by an inner wall (2); a nozzle (6) and a support plate (5) are arranged in the interior and a glass to be chilled or frosted is movable from above into the interior and onto the support plate (5), resulting in carbon dioxide being released from the nozzle (6) into the glass; and the device has an outer wall (1). The invention is

characterized in that: - the inner wall (2) has openings (4), which lead into the device interior between the inner wall (2) and the outer wall (1), - and/or the inner wall (2), below the support plate (5), is open to the device interior or is closed by an inner bottom element (12) which has a plurality of openings that lead into the device interior. Optional extension elements for a device for chilling or frosting glasses using carbon dioxide may allow the device to be fastened directly to the valve protection (39) of a gas bottle (37).



21: 2023/01527. 22: 2023/02/07. 43: 2025/09/05

51: F04B; H02J; H02S

71: CORNELL PUMP COMPANY LLC

72: COLIN O'CALLAGHAN, ADAM LINDEMAN,

ERICK JOHNSON, WILLIAM JAMES WARREN

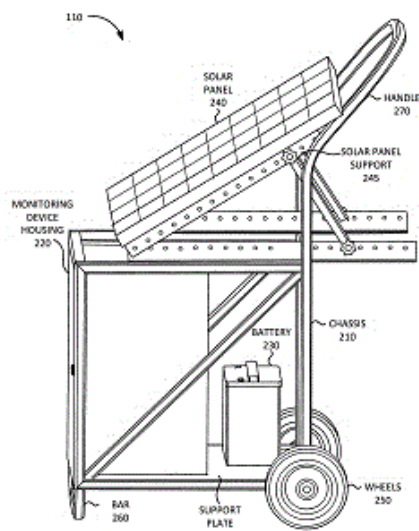
33: US 31: 63/308,735 32: 2022-02-10

54: SELF-RECHARGING STAND-ALONE MONITORING SYSTEM

00: -

A device for monitoring pump equipment may include a pump monitoring device comprising sensor devices configured to monitor the pump equipment, a controller configured to configure the sensor devices and collect sensor data from the sensor devices, and a wireless transceiver configured to communicate with a cellular base station. The device may further include a battery configured to provide power to the pump monitoring device; a solar panel; a charging system to charge the battery using the solar panel; and a chassis configured to secure the pump monitoring system, battery, solar panel, and

charging system into a self-contained mobile monitoring device.



21: 2023/01785. 22: 2023/02/14. 43: 2025/11/03

51: A24F; A61M

71: PHILIP MORRIS PRODUCTS S.A.

72: DAYIOGLU, Onur

33: EP 31: 20213324.5 32: 2020-12-11

54: INHALER SYSTEM WITH OFFSET PIERCING

00: -

An inhaler system includes a housing defining a housing cavity, a sleeve extending along a sleeve longitudinal axis and positioned within the housing cavity, a capsule is contained within the sleeve and having a capsule longitudinal axis, and a piercing element having only a single shaft extending from a fixed end to a tip along a piercing element longitudinal axis, the piercing element longitudinal axis being parallel with and offset from the capsule longitudinal axis. Only a single aperture is formed in the capsule by the piercing element.

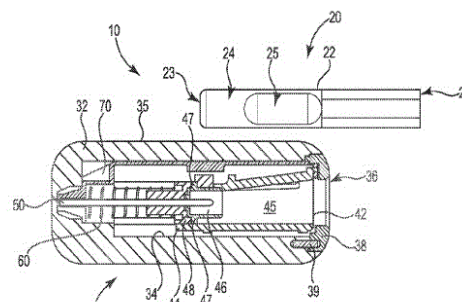


FIG. 1

21: 2023/03396. 22: 2023/03/07. 43: 2025/08/28

51: F03B

71: Wave Swell Energy Limited

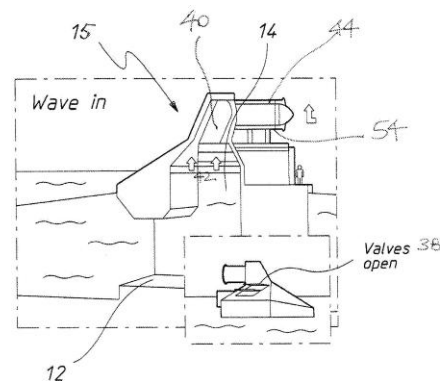
72: DENNISS, Thomas

33: AU 31: 2020902794 32: 2020-08-07

54: AN IMPROVED APPARATUS AND METHOD FOR EXTRACTING ENERGY FROM A FLUID

00: -

Apparatus for extracting energy from an oscillating working fluid, the apparatus comprising a flow passage 40 for the oscillating working fluid, an energy conversion unit 44 and a flow control device 38, each of the energy conversion unit 44 and the flow control device 38 being, at least in part, in fluid communication with the flow passage 40, wherein in use the flow control device 38 is selectively operable between a first configuration in which the flow control device 38 is open to allow a flow of the oscillating working fluid to exit the flow passage therethrough, and a second configuration in which the flow control device 38 is arranged to restrict a flow of the working fluid therethrough, such that the oscillating working fluid enters the flow passage via the energy conversion unit 44.



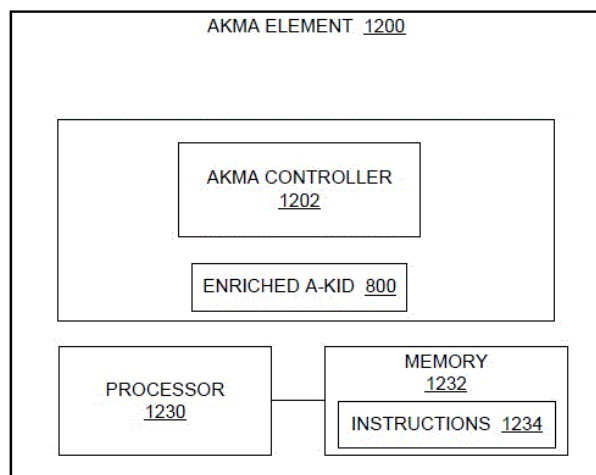
21: 2023/03845. 22: 2023/03/27. 43: 2025/09/15

51: H04W H04L

71: NOKIA TECHNOLOGIES OY
 72: NATARAJAN, Rajesh, Babu, KHARE, Saurabh
 33: IN 31: 202241018484 32: 2022-03-29

54: ENRICHED A-KID FOR AKMA AUTHENTICATION SERVICE

00: -
 Systems, methods, and software of performing an Authentication and Key Management for Applications (AKMA) authentication service. In one embodiment, an AKMA element (1200) handles an enriched AKMA Key Identifier (A-KID) (800) having an identifier format with a username (802) and a realm (804) separated by an @-symbol (806). The username includes a Routing Indicator (RID) (812), an AKMA Temporary UE Identifier (A-TID) (814), and at least one supplemental character (810) that distinguishes the RID from the A-TID in the username. The AKMA element performs a function of the AKMA authentication service based on the enriched A-KID.



21: 2023/04151. 22: 2023/04/04. 43: 2025/10/31
 51: A61K; A61P
 71: CYTUNE PHARMA
 72: Stefano FERRARA, Ulrich MOEBIUS, David BÉCHARD, Irena ADKINS, Nada PODZIMKOVA
 33: EP 31: 20203908.7 32: 2020-10-26

54: IL-2/IL-15RBβY AGONIST FOR TREATING SQUAMOUS CELL CARCINOMA

00: -
 The present invention relates to an interleukin-2/interleukin-15 receptor βγ (IL-2/IL- 15Rβγ) agonist for use in the treatment of squamous cell carcinoma. Further provided are dosing schemes for treating patients with squamous cell carcinoma with an IL-2/IL- 15Rβγ agonist.

21: 2023/04644. 22: 2023/04/21. 43: 2025/09/18
 51: A61K; C07D; A61P

71: ST. JUDE CHILDREN'S RESEARCH HOSPITAL, INC.

72: MARCUS FISHER, FATEMEH KERAMATNIA, KEVIN MCGOWAN, JAEKI MIN, GISELE A NISHIGUCHI, JEANINE PRICE, ZORAN RANKOVIC, DAS SOURAV, CHARLES G MULLIGHAN, YUNCHAO CHANG

33: US 31: 63/082,365 32: 2020-09-23

54: SUBSTITUTED N-(2-(2,6-DIOXOPIPERIDIN-3-YL)-1,3-DIOXISOINDOLIN-5-YL)ARYLSULFONAMIDE ANALOGS AS MODULATORS OF CEREBLON PROTEIN

00: -
 In one aspect, the disclosure relates to substituted N-(2-(2,6-dioxopiperidinyl-3-yl)-1,3-dioxoisindolin-5-yl)arylsulfonamide analogs that useful as modulators of cereblon (CRBN) activity, methods of making same, pharmaceutical compositions comprising same, and methods of treating various clinical conditions and disorders using same, e.g., a disorder of uncontrolled cellular proliferation, such as a cancer, which may be associated with cereblon protein dysfunction and/or a GSPT1 dysfunction. In various further aspects, the disclosed compounds can selectively modulate the degradation of GSPT1 protein, i.e., the disclosed compounds can act as GSPT1 degraders. This abstract is intended as a scanning tool for purposes of searching in the particular art and is not intended to be limiting of the present disclosure.

	Pomalidomide	Lenalidomide	CC-220	CC-585
IKZF1, 3	✓	✓	✓	✓
CK1α	×	✓	×	✓
GSPT1	×	×	×	✓

21: 2023/04707. 22: 2023/04/24. 43: 2025/11/03
 51: H02M

71: ZTE CORPORATION

72: ZHANG, Wei, YE, Xin, ZHOU, Jianping, CHENG, Jun, SHI, Sichao, LI, Lei, SHEN, Xing, FAN, Shanshan

33: CN 31: 202011035533.5 32: 2020-09-27

54: DIRECT CURRENT CONVERSION SYSTEM

00: -

The present application relates to the field of digital control of direct current conversion. Embodiments of the present application provide a direct current-direct current conversion system, comprising: a main power module used for implementing power conversion, and a digital control module; wherein the digital control module is implemented by means of a dual-core single chip; a first processing core of the dual-core single chip is used for controlling the main power module; and a second processing core of the dual-core single chip is used for performing system-level monitoring and management on the direct current-direct current conversion system.

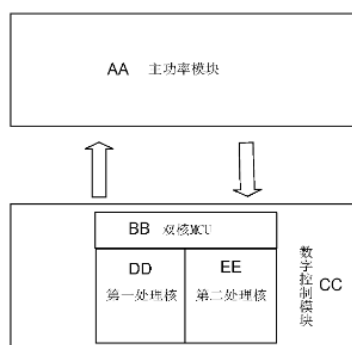


图 1

AA Main power module
BB Dual-core MCU
CC Digital control module
DD First processing core
EE Second processing core

21: 2023/05438. 22: 2023/05/18. 43: 2025/08/29
51: A61K; A61M; A61P
71: Eli Lilly and Company
72: CARR, Molly Corbett, CHIEN, Yueh-Ling a/k/a Jenny Y. CHIEN, CHIGUTSA, Emmanuel, GARHYAN, Parag, HAUPT, Axel Richard Karl-August, TANG, Cheng Cai
33: US 31: 63/125,165 32: 2020-12-14

54: METHODS OF TREATING DIABETES

00: -

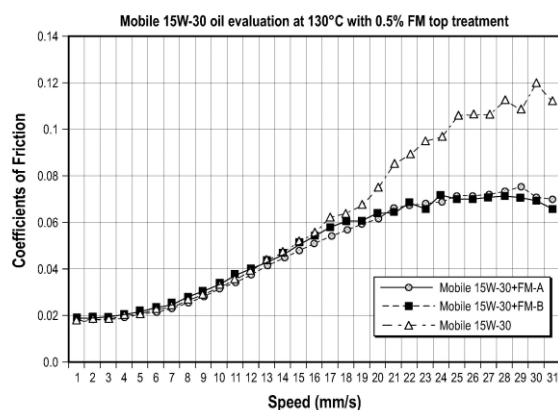
Described herein are fixed doses and dosing regimens for long-acting insulin receptor agonists suitable for once-weekly dosing, such as weekly basal insulin-Fc (BIF).

21: 2023/05660. 22: 2023/05/25. 43: 2025/08/28
51: C07C; C10M
71: Huntsman Petrochemical LLC
72: ZHAO, Haibo
33: US 31: 63/126,112 32: 2020-12-16

54: REACTION PRODUCT OF AN ORGANIC AMINE AND GLYCIDOL AND ITS USE AS A FRICTION MODIFIER

00: -

The present disclosure generally relates to a friction modifier comprising the reaction product of an organic amine and glycidol and its use in a non-aqueous lubricant composition. There is also provided a method for reducing the friction between sliding parts of an engine by contacting the engine with the non-aqueous lubricant composition.



21: 2023/05699. 22: 2023/05/26. 43: 2025/08/28
51: A47J

71: Société des Produits Nestlé S.A.
72: FLICK, Jean Marc, CALDERONE, Roberto Angelo, BLUNIER, Jean Daniel
33: EP(CH) 31: 20205487.0 32: 2020-11-03

54: COFFEE BREWING APPARATUS

00: -

The invention concerns a full automatic coffee machine (100) comprising a coffee extraction unit (10) with : - a brewing chamber (1) for receiving coffee powder, - an upper piston (2), - a lower piston (3) movable inside said brewing chamber (1) between a lowest position and a highest position - wherein the lower piston (3) comprises a piston rod (31), which comprises an internal channel (311) extending from a channel inlet (311a) at the lateral wall surface of the rod to a channel outlet (311 b) at the bottom wall surface of the rod, and wherein the channel inlet (311a) is designed and positioned on the lateral wall surface of the rod so that said channel inlet (311a) overlaps the bottom wall (11) of the brewing chamber only when the lower piston is in the highest position.

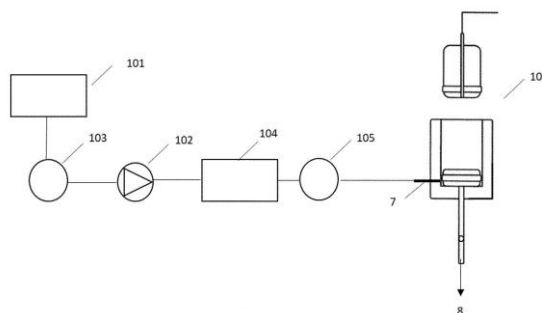
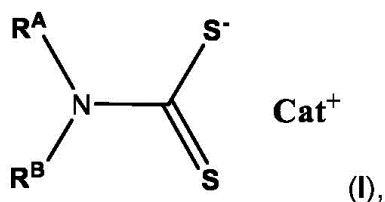


FIGURE 6

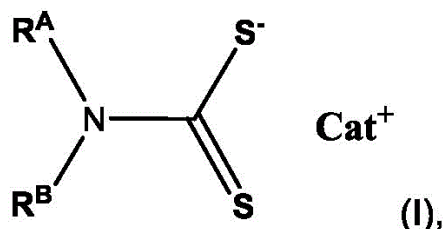
21: 2023/06143. 22: 2023/06/09. 43: 2025/09/10
 51: C09D
 71: SICPA HOLDING SA
 72: PITTET, Hervé, DEMARTIN MAEDER, Marlyse, VEYA, Patrick, GRIGORENKO, Nikolay, OSWALD, Andre
 33: EP(CH) 31: 20206794.8 32: 2020-11-10
54: UV-VIS RADIATION CURABLE SECURITY INKS FOR PRODUCING DICHROIC SECURITY FEATURES
 00: -

The present invention provides a UV-Vis radiation curable security ink for producing a security feature for securing value documents, wherein said security feature exhibits a blue color upon viewing in transmitted light and a metallic yellow color upon viewing in incident light. The UV-Vis radiation curable security ink comprises a cationically curable or a hybrid curable ink vehicle, and silver nanoplatelets bearing a surface stabilizing agent of general formula (I) wherein the residue R^A is a C_2 - C_4 alkyl group substituted with a hydroxy group; the residue R^B is selected from a C_1 - C_4 alkyl group, and a C_2 - C_4 alkyl group substituted with a hydroxy group; and Cat^+ is an ammonium cation of general formula $+NH_2R^C R^D$, wherein the residue R^C is a C_2 - C_4 alkyl group substituted with a hydroxy group; and the residue R^D is selected from a C_1 - C_4 alkyl group, and a C_2 - C_4 alkyl group substituted with a hydroxy group.



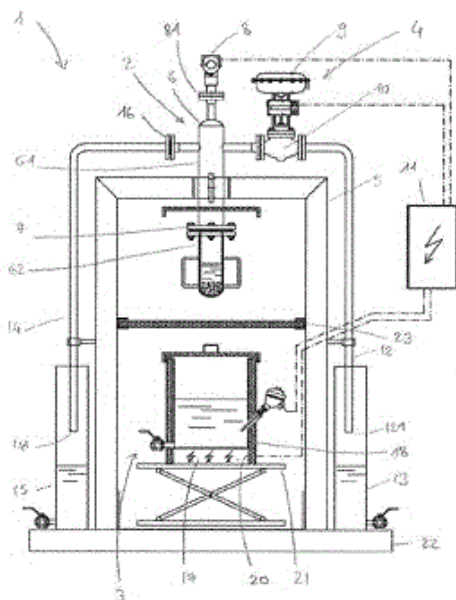
21: 2023/06146. 22: 2023/06/09. 43: 2025/09/10
 51: B41M; C09D
 71: SICPA HOLDING SA
 72: PITTET, Hervé, DEMARTIN MAEDER, Marlyse, VEYA, Patrick, GRIGORENKO, Nikolay, OSWALD, Andre
 33: EP(CH) 31: 20206740.1 32: 2020-11-10
54: UV-VIS RADIATION CURABLE SECURITY INKS FOR PRODUCING DICHROIC SECURITY FEATURES
 00: -

The present invention provides a UV-Vis radiation curable security ink for producing a security feature for securing value documents, wherein said security feature exhibits a blue color upon viewing in transmitted light and a metallic yellow color upon viewing in incident light. The UV-Vis radiation curable security ink comprises a cationically curable or a hybrid curable ink vehicle, and silver nanoplatelets bearing a surface stabilizing agent of general formula (I) wherein the residue R^A is a C_2 - C_4 alkyl group substituted with a hydroxy group; the residue R^B is selected from a C_1 - C_4 alkyl group, and a C_2 - C_4 alkyl group substituted with a hydroxy group; and Cat^+ is a cation selected from the group consisting of Na^+ , K^+ , Cs^+ and Rb^+ .



21: 2023/06394. 22: 2023/06/20. 43: 2025/09/18
 51: B09B; C02F
 71: NEWSTER SYSTEM S.R.L.
 72: GIANLUCA MAGRINI, LAURA TREVISSON, BENEDETTA COPERTARO, ENRICO CATAPANO, MARCO PERICOLI, GIORGIO CASALBONI
 33: IT 31: 102020000030158 32: 2020-12-09
54: PLANT AND PROCESS FOR THE TREATMENT OF MEDICINAL WASTE
 00: -

A plant for the treatment of medicinal waste comprising at least one reaction cell (2) suitable for containing at least one liquid or liquid-diluted medicinal waste material; a heating system (3) suitable for uniformly heating at least one portion (61) of the outer surface of the reaction cell (2); and one device (4) for controlling the pressure and temperature of the reaction cell (2), connected to the heating system (3).



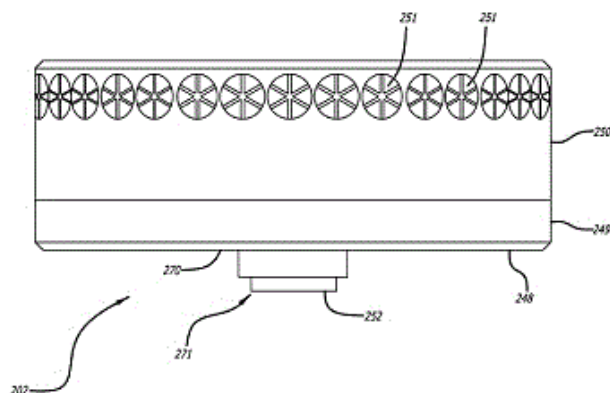
21: 2023/06419. 22: 2023/06/21. 43: 2025/09/15
 51: A24B; A24F; A61M; B05B; B06B
 71: SHAHEEN INNOVATIONS HOLDING LIMITED
 72: IMAD LAHOUD, MOHAMMED ALSHAIBA
 SALEH GHANNAM ALMAZROUEI, SAJID BHATTI,
 JEFF MACHOVEC, CLEMENT LAMOUREUX
 33: US 31: 17/122,025 32: 2020-12-15
 33: US 31: 17/220,189 32: 2021-04-01
 33: GB 31: 2104872.3 32: 2021-04-06

54: A HOOKAH DEVICE

00: -

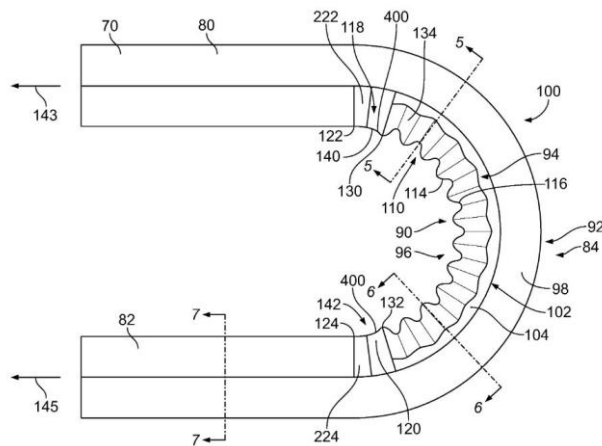
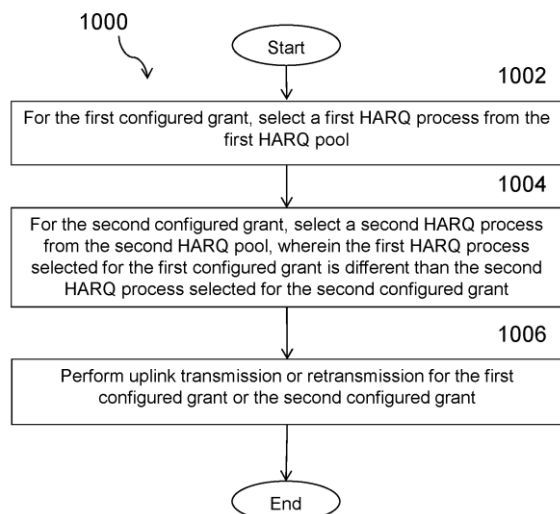
A hookah device for use with a hookah having an elongate stem and a water chamber with a first end of the stem attached to the water chamber. The hookah device comprises a plurality of ultrasonic mist generator devices which are each provided with a respective mist outlet port, and a driver device which is connected electrically to each of the mist generator devices and configured to activate the mist generator devices. The driver device comprises a wireless communication system configured to transmit and receive data between the driver device and a computing device such that the computing device can control the operation of the hookah device. The hookah device further comprises a hookah attachment arrangement which is configured to attach the hookah device to a second end of the stem of the hookah. The hookah attachment arrangement has a hookah outlet port which provides a fluid flow path from the mist outlet ports of the mist generator devices and out of the hookah

device such that, when at least one of the mist generator devices is activated by the driver device, mist generated by each activated mist generator device flows along the fluid flow path and out of the hookah device to the hookah.



21: 2023/06765. 22: 2023/06/30. 43: 2025/10/31
 51: H04L
 71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
 72: DUDDA, Torsten, ZOU, Zhenhua
 33: US 31: 63/136,676 32: 2021-01-13
54: LOGICAL CHANNEL PRIORITIZATION IN UNLICENSED SPECTRUM
 00: -

A wireless device is configured with a first configured grant associated with a first hybrid automatic repeat request (HARQ) pool and a second configured grant associated with a second HARQ pool. The first HARQ pool at least partially overlaps with the second HARQ pool, and the second configured grant partially overlaps with the first configured grant. For the first configured grant, the wireless device selects a first HARQ process from the first HARQ pool. For the second configured grant, the wireless device selects a second HARQ process from the second HARQ pool. The first HARQ process selected for the first configured grant is different than the second HARQ process selected for the second configured grant. The wireless device performs uplink transmission or retransmission for the first configured grant or the second configured grant.



21: 2023/07255. 22: 2023/07/20. 43: 2025/10/03
51: H01F

71: Huaneng Tongliao Wind Power Co. Ltd

72: Wang, Jinning, Wu, Wei, Li, Bo, Wang, Liming, Li, Shibin, Li, Yunpeng

33: CN 31: 2023105592940.0 32: 2023-05-18

54: MULTIFUNCTIONAL TRANSFORMER BOX
00: -

The present invention relates to the technical field of transformers, including a box, a heat dissipation hole, a plate, and an opening and closing door, where the heat dissipation hole is provided on the side of the box, the plate is detachably connected to the bottom plate of the box, the opening and closing door is hinged to the box, and the transformer is installed on the upper end face of the plate; and a mounting component, including an engaging member, a buffering member and a lifting member, where the engaging member is located inside the box and are detachably connected to the plate, the buffering component is embedded inside the bottom plate of the box, and the lifting member is positioned in the bottom plate of the box. When maintenance and inspection of the transformer is required, the transformer can be pulled out to the outside of the box.

21: 2023/07141. 22: 2023/07/17. 43: 2025/10/24
51: F28D; F28F

71: BALTIMORE AIRCOIL COMPANY, INC.

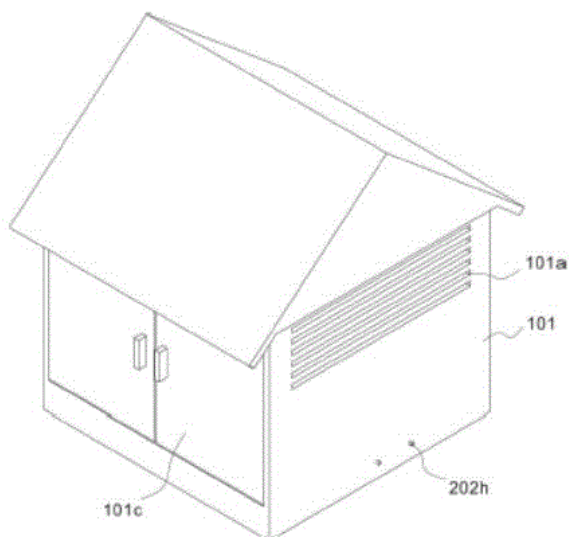
72: PARKER, Daniel E., DAMLE, Advait, MORRISON, Frank T.

33: US 31: 63/138,655 32: 2021-01-18

33: US 31: 63/270,953 32: 2021-10-22

54: INDIRECT HEAT EXCHANGER PRESSURE VESSEL WITH CONTROLLED WRINKLE BENDS
00: -

In one aspect of the present disclosure, an indirect heat exchanger pressure vessel is provided that includes an inlet header to receive a pressurized working fluid, such as water, glycol, ammonia, and/or CO₂. The indirect heat exchanger pressure vessel includes an outlet header to collect the pressurized working fluid and a serpentine circuit tube connecting the inlet and outlet headers. The serpentine circuit tube permits the pressurized working fluid to flow from the inlet header to the outlet header. The serpentine circuit tube includes runs and a return bend connecting the runs. The return bend has a controlled wrinkled portion comprising alternating ridges and grooves. The alternating ridges and grooves strengthen the return bend and permit the indirect heat exchanger pressure vessel to facilitate working fluid heat transfer at a high internal operating pressure.

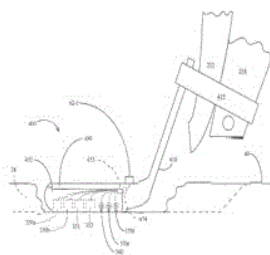
**FIG 1**

21: 2023/07422. 22: 2023/07/26. 43: 2025/10/29
 51: A01B; A01C
 71: PRECISION PLANTING LLC
 72: STRNAD, Michael, KATER, Timothy, MORGAN, Matthew, KOCH, Dale, M.
 33: US 31: 62/567,135 32: 2017-10-02
 33: US 31: 62/625,855 32: 2018-02-02
 33: US 31: 62/661,783 32: 2018-04-24

54: SYSTEMS AND APPARATUSES FOR SOIL AND SEED MONITORING

00: -

A soil apparatus (e.g., seed firmer) having a locking system is described herein. In one embodiment, the soil apparatus includes a lower base portion for engaging in soil of an agricultural field, an upper base portion, and a neck portion having protrusions to insert into the lower base portion of a base and then lock when a region of the upper base portion is inserted into the lower base portion and this region of the upper base portion presses the protrusions to lock the neck portion to the upper base portion.



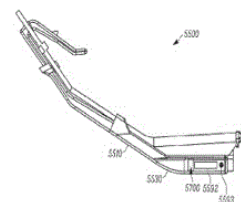
21: 2023/07423. 22: 2023/07/26. 43: 2025/10/29
 51: A01B; A01C

71: PRECISION PLANTING LLC
 72: STRNAD, Michael, KATER, Timothy
 33: US 31: 62/567,135 32: 2017-10-02
 33: US 31: 62/625,855 32: 2018-02-02
 33: US 31: 62/661,783 32: 2018-04-24

54: SYSTEMS AND APPARATUSES FOR SOIL AND SEED MONITORING

00: -

A soil apparatus (e.g., seed firmer) having a base portion for engaging in soil of an agricultural field, and the base portion is adapted for connection to an agricultural implement; a window in the base portion; a wear resistant insert disposed in or on the base portion in one or more locations selected from the group consisting of i) ahead of the window in a direction of travel of the soil apparatus through soil and disposed on the base portion, ii) ahead of the window in a direction of travel of the soil apparatus through soil and disposed in the base portion, wherein the base portion has a ground engaging portion, the ground engaging portion has a greater wear resistance than the base portion, iii) above the window, and iv) below the window.



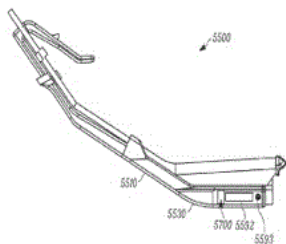
21: 2023/07424. 22: 2023/07/26. 43: 2025/10/29
 51: A01B; A01C
 71: PRECISION PLANTING LLC
 72: STRNAD, Michael, KATER, Timothy, KOCH, Dale, M., MINARICH, Nicholas, LITWILLER, Riley
 33: US 31: 62/567,135 32: 2017-10-02
 33: US 31: 62/625,855 32: 2018-02-02
 33: US 31: 62/661,783 32: 2018-04-24

54: SYSTEMS AND APPARATUSES FOR SOIL AND SEED MONITORING

00: -

A soil apparatus (e.g., seed firmer) having a locking system is described herein. In one embodiment, the soil apparatus includes a lower base portion for engaging in soil of an agricultural field, an upper base portion, and a neck portion having protrusions to insert into the lower base portion of a base and then lock when a region of the upper base portion is inserted into the lower base portion and this region

of the upper base portion presses the protrusions to lock the neck portion to the upper base portion.



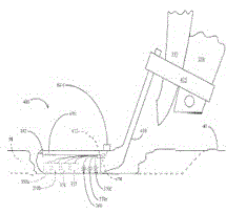
21: 2023/07425. 22: 2023/07/26. 43: 2025/10/29
51: A01B; A01C
71: PRECISION PLANTING LLC
72: STRNAD, Michael, MORGAN, Matthew, KOCH, Dale, M.

33: US 31: 62/567,135 32: 2017-10-02
33: US 31: 62/625,855 32: 2018-02-02
33: US 31: 62/661,783 32: 2018-04-24

54: SYSTEMS AND APPARATUSES FOR SOIL AND SEED MONITORING

00: -

A soil apparatus (e.g., seed firmer) having a locking system is described herein. In one embodiment, the soil apparatus includes a lower base portion for engaging in soil of an agricultural field, an upper base portion, and a neck portion having protrusions to insert into the lower base portion of a base and then lock when a region of the upper base portion is inserted into the lower base portion and this region of the upper base portion presses the protrusions to lock the neck portion to the upper base portion.



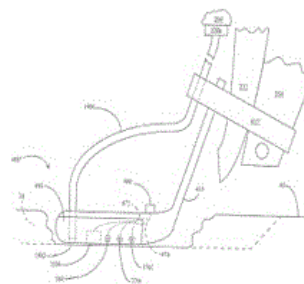
21: 2023/07426. 22: 2023/07/26. 43: 2025/11/04
51: A01B; A01C
71: PRECISION PLANTING LLC
72: KATER, Timothy, MORGAN, Matthew, KOCH, Dale, M., HODEL, Jeremy, J.

33: US 31: 62/567,135 32: 2017-10-02
33: US 31: 62/625,855 32: 2018-02-02
33: US 31: 62/661,783 32: 2018-04-24

54: SYSTEMS AND APPARATUSES FOR SOIL AND SEED MONITORING

00: -

A system that is able to vary a depth of a row cleaner by adjusting a downforce applied to the row cleaner to promote planting at a desired seed depth and soil moisture.



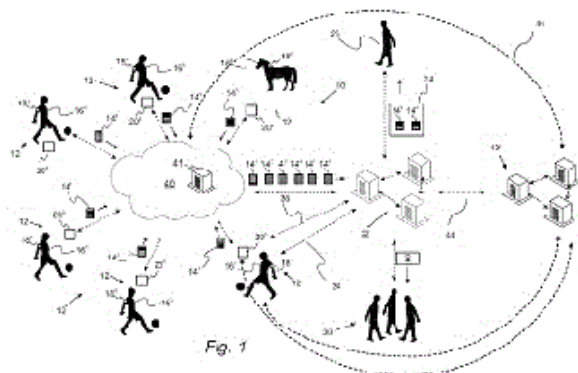
21: 2023/07646. 22: 2023/08/02. 43: 2025/09/02
51: G06F; G06N; G06Q
71: SPORTS DATA LABS, INC.
72: VIVEK KHARE, MARK GORSKI, STAN MIMOTO

33: US 31: 63/134,332 32: 2021-01-06
33: US 31: 63/213,526 32: 2021-06-22

54: ANIMAL DATA COMPLIANCE SYSTEM AND METHOD

00: -

An animal data compliance system includes one or more sources of animal data from one or more targeted individuals wherein the animal data is transmitted electronically. A collecting computing device gathers the animal data. One or more rules related to at least a portion of the animal data are created or modified based upon one or more terms. The one or more rules are associated with at least a portion of the animal data. At least a portion of animal data and the one or more rules are provided to one or more receiving computing devices. The one or more rules informs the one or more receiving computing devices of one or more permissions or restrictions related to the animal data. The one or more receiving computing devices take at least one action based upon the one or more rules.



21: 2023/07758. 22: 2023/08/07. 43: 2025/09/02

51: G01H

71: CORNELL PUMP COMPANY LLC

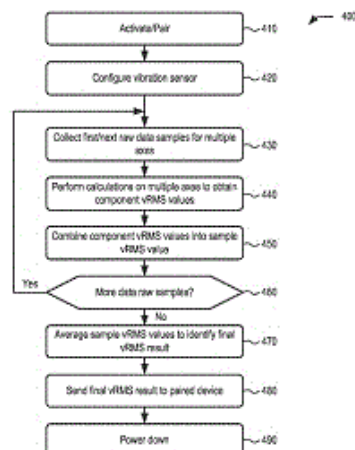
72: AARON ARTHUR WEISS, JONATHAN
CEDARLEAF

33: US 31: 63/151,307 32: 2021-02-19

54: SYSTEM AND METHOD FOR VIBRATION SEVERITY MEASUREMENT

00: -

A device, system, and method are provided for providing vibration data for rotating machinery. A sensor device is provided as a one-piece unit that is mechanically mounted to a pump. The sensor includes a vibration sensor, a processor, a wireless communications interface for exchanging data with a user device, and an internal battery. The processor is configured to receive a measurement request from the user device via the wireless communications interface. In response, the processor is further configured to configure the vibration sensor, receive data samples for multiple axes from the vibration sensor, and calculate a component velocity root mean square (vRMS) value, from the data samples, for each of the multiple axes. The processor may combine the component vRMS values into a sample vRMS value, and send a final vRMS value, based on the sample vRMS value, to the user device via the wireless communication interface.



21: 2023/07787, 22: 2023/08/08, 43: 2025/09/02

51: A61K; C07D; A61P

71: THE GLOBAL ALLIANCE FOR TB DRUG DEVELOPMENT, INC.

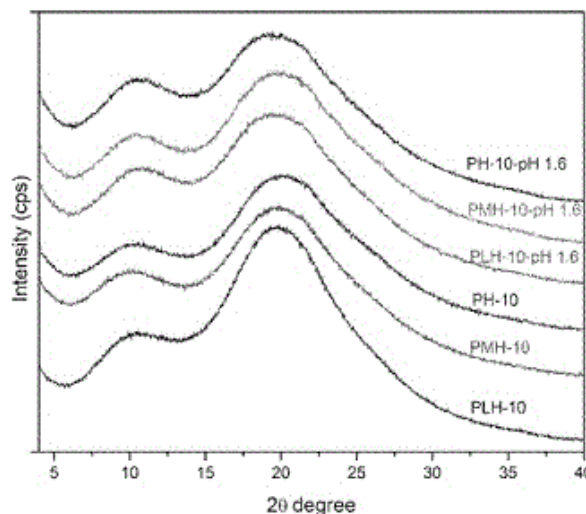
72: RAJNEESH TANEJA, POONAM G PANDE

33: US 31: 63/144,059 32: 2021-02-01

54: PRETOMANID AMORPHOUS FORM

00: -

The present invention relates to pretomanid in amorphous form. The invention also relates to method of using the same, such as in a method of treating a mycobacterial infection.



21: 2023/07912. 22: 2023/08/15. 43: 2025/09/05

51: A61K; C07K; G01N

71: RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY

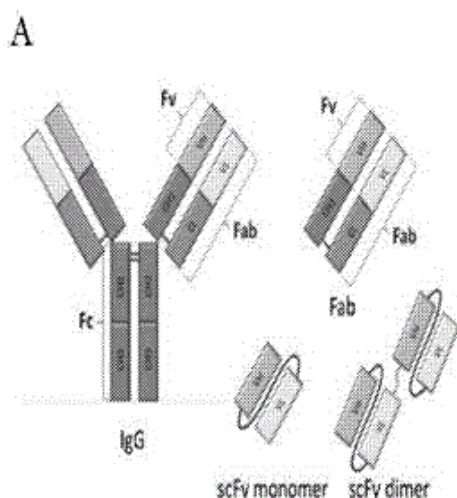
72: ABRAHAM PINTER, ALOK CHOUDHARY

33: US 31: 62/293,406 32: 2016-02-10

54: NOVEL ANTI-LAM AND ANTI-PIM6/LAM MONOCLONAL ANTIBODIES FOR DIAGNOSIS AND TREATMENT OF MYCOBACTERIUM TUBERCULOSIS INFECTIONS

00: -

The present invention broadly provides different compositions, kits, vectors, and methods including monoclonal antibodies directed to epitopes found within lipoarabinomannan (LAM) and phosphatidyl-myo-inositol mannoside 6 (PIM6) for the diagnosis and treatment of Mycobacterium tuberculosis infections.



21: 2023/07916. 22: 2023/08/15. 43: 2025/09/05

51: A61K; C07K; A61P

71: GI INNOVATION, INC.

72: MYUNG HO JANG, YOUNG-GYU CHO, SOONTAK KWON

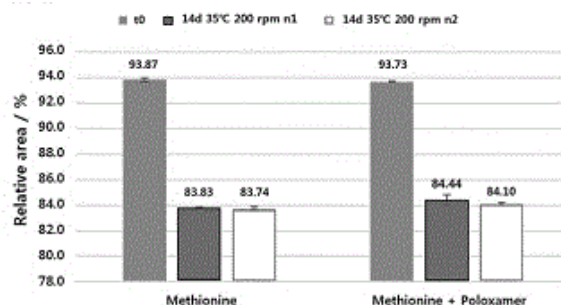
33: KR 31: 10-2021-0030501 32: 2021-03-09

54: FORMULATION OF FUSION PROTEIN INCLUDING EXTRACELLULAR DOMAIN OF ALPHA SUBUNIT OF IGE FC RECEPTOR

00: -

The present invention relates to a formulation optimized for a fusion protein dimer that comprises an extracellular domain of an alpha subunit of an IgE Fc receptor and, more specifically, to an aqueous pharmaceutical formulation having a pH of 6.0-7.0, comprising a fusion protein dimer that comprises an extracellular domain of an alpha subunit of an IgE Fc receptor, histidine, proline, methionine, and Poloxamer 188. The fusion protein present in the formulation according to the present invention is contained at a high concentration, has improved stability and thus can be easily administered through

subcutaneous injection, and has excellent IgE-binding capacity as compared to existing therapeutic agents comprising an anti-IgE antibody, and thus can be usefully utilized in an injection for treating an IgE-mediated allergic disease.



21: 2023/08021. 22: 2023/08/18. 43: 2025/09/05

51: A61K; C07K; A61P

71: ADAGENE INC.

72: PETER PEIZHI LUO, FANGYONG DU, ZHONGZONG PAN, GUIZHONG LIU

33: CN 31: PCT/CN2018/075064 32: 2018-02-02

54: ANTI-CTLA4 ANTIBODIES AND METHODS OF MAKING AND USING THE SAME

00: -

Provided herein are cross-reactive antibodies (or antigen binding fragments thereof) that bind to human CTLA4, activatable antibodies that bind to human CTLA4, nucleic acid molecules encoding the same, pharmaceutical compositions thereof, and methods of their therapeutic use (e.g., for treatment of cancer).

21: 2023/08076. 22: 2023/08/21. 43: 2025/09/05

51: B29B

71: SÖDRA SKOGSÄGARNA EKONOMISK FÖRENING

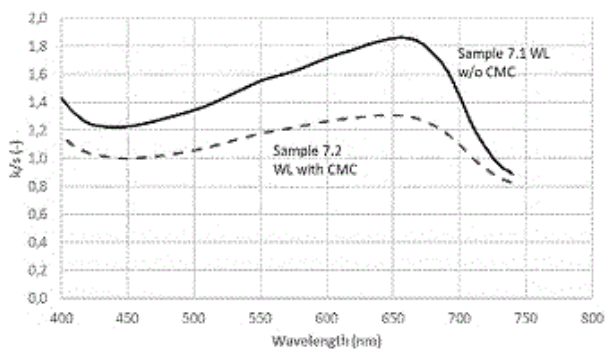
72: JIM PARKÅS, ANNA PALME, HARALD BRELID

33: SE 31: 2150245-5 32: 2021-03-04

54: METHOD FOR DECOLORING OF A TEXTILE MATERIAL

00: -

The invention concerns a method for decoloring of a textile material, the method comprising the steps of: providing a textile material; providing an alkaline solution containing one or more anionic polyelectrolytes; treating the textile material in the alkaline solution during a treatment period; and recovering at least some of the textile material from the alkaline solution.

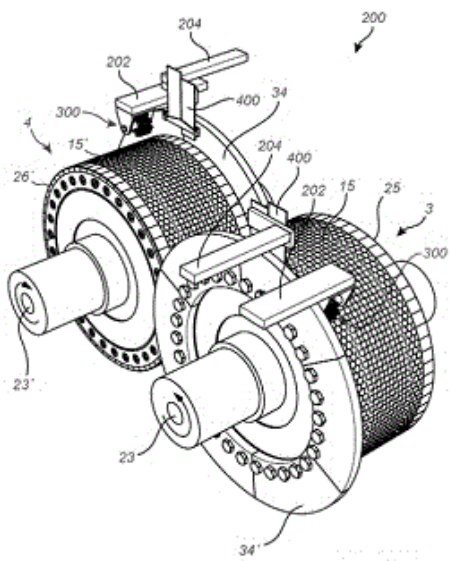


51: B02C

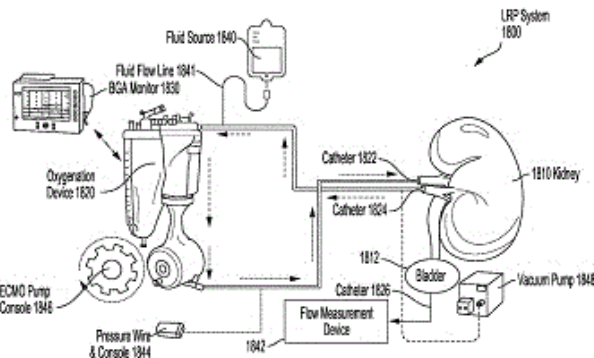
72: BRANDON JOHN SCHUERMAN, WAYNE
EUGENE MYERS. STEVEN E RICHARDSON

54: SPUR WHEEL SCRAPER

The disclosure relates to a roller crusher including a first grinding roll and a second grinding roll, the first and second grinding rolls being arranged generally in parallel to each other and to define a crushing gap therebetween and drivable in a counter-rotating manner. The roller crusher includes a device of a first type for loosening granular material present on a crushing surface of at least one of the rolls, the device including at least one rotatable disc element. The subject further relates to a roller crusher, wherein the plurality of disc elements is individually rotatable.

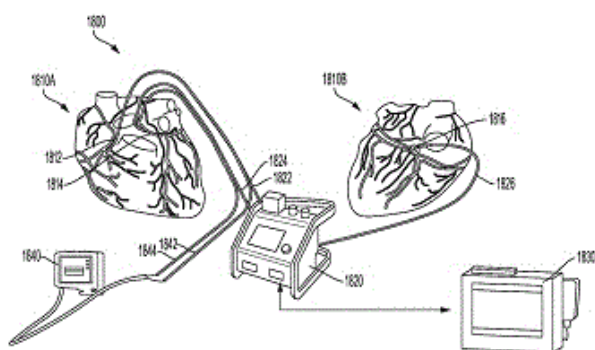


Disclosed is a method for treating a renal condition by loco-regional perfusion of one or both of a patient's kidneys (1810). A closed circuit may be formed with a perfusion catheter (1822) positioned in the renal artery of the kidney, a recovery catheter (1824) positioned in the renal vein of the kidney, and an external membrane oxygenator (1820) disposed therebetween. A perfusate containing, for example, a drug may be circulated through the closed circuit while isolating the closed circuit from the patient's systemic circulation.



Disclosed is a method for treating a heart condition by perfusing a drug through an un-arrested beating heart of a patient. A closed circuit through the patient's coronary arteries and coronary venous system may be formed from a first drug delivery catheter (1822) positioned in the right coronary artery, a second drug delivery catheter (1824) positioned in the left coronary artery, a drug recovery

catheter (1826) positioned in a coronary sinus, and an external membrane oxygenation system (1820) fluidly coupled to the various catheters. A drug for treating a heart condition may be perfused through the closed circuit.



21: 2023/08269. 22: 2023/08/28. 43: 2025/09/05

51: A61B; A61M

71: DINAQOR AG

72: JOHANNES HOLZMEISTER, VALERIA RICOTTI, MARK DEHDASHTIAN

33: US 31: 63/151,919 32: 2021-02-22

33: US 31: 63/312,029 32: 2022-02-20

54: LOCO-REGIONAL PERFUSION OF A LIVER

00: -

Disclosed is a method for treating a hepatic condition by loco- regional perfusion a patient's liver. A closed circuit may be formed with perfusion catheters (1822, 1824) positioned in the hepatic artery and portal vein of the liver, one or more recovery catheters (1826) positioned in the inferior vena cava proximal to the liver, and an external membrane oxygenator (1820A, 1820B) disposed therebetween. A perfusate containing, for example, a drug may be circulated through the closed circuit while isolating the closed circuit from the patient's systemic circulation.

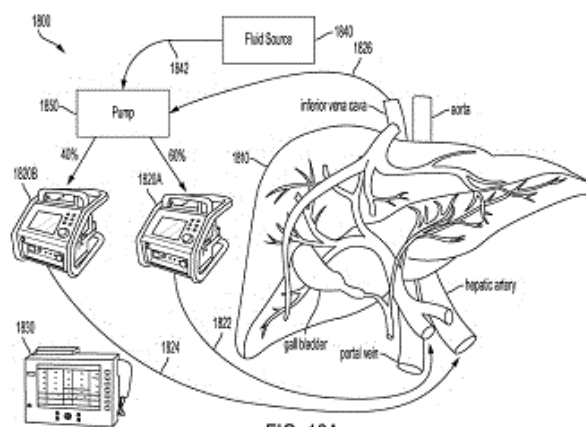


FIG. 18A

21: 2023/08362. 22: 2023/08/30. 43: 2025/09/08

51: A61K; C07K; A61P

71: PRECIGEN, INC.

72: DOUGLAS E BROUGH, CHERYL G BOLINGER, RAMYA YARLAGADDA, VINODHBABU KURELLA, SIMON METENOU, KUANG-FU DING, PONRAJ, Prabakaran

33: US 31: 62/639,354 32: 2018-03-06

54: HEPATITIS B VACCINES AND USES OF THE SAME

00: -

Provided herein are engineered hepatitis B virus (HBV) molecular vaccine constructs. Vaccine constructs can also include ligand-inducible engineered gene switch systems for modulating expression of heterologous genes, such as a cytokines, in host cells.

21: 2023/08388. 22: 2023/08/30. 43: 2025/09/05

51: A61K; A61P

71: ALKEM LABORATORIES LIMITED

72: AKHILESH SHARMA, BABASAHEB AWARE, VIRAJ SHAH, AMOL AIWALE

33: IN 31: 202121015680 32: 2021-04-01

54: NASAL COMPOSITIONS COMPRISING ALCAFTADINE

00: -

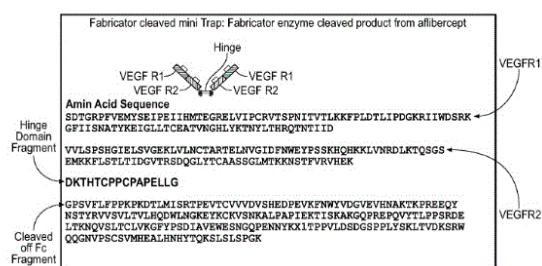
The present invention relates to a nasal pharmaceutical composition comprising alcaftadine or a pharmaceutically acceptable salt and optionally one or more pharmaceutically acceptable excipients, methods of treating allergic rhinitis, allergic rhinoconjunctivitis, or symptoms thereof (such as nasal congestion) with the nasal pharmaceutical composition, and methods of preparing it.

21: 2023/08435. 22: 2023/08/31. 43: 2025/09/05
 51: A61K; C07K; C12N; A61P
 71: GENRIX (SHANGHAI) BIOPHARMACEUTICAL CO., LTD., BEIJING WISDOMAB BIOTECHNOLOGY CO., LTD, CHONGQING GENRIX BIOPHARMACEUTICAL CO., LTD.
 72: XUEPING ZHANG, ZHIGANG LIU, XIAOWEI ZHOU, JUNJIE HU, XIAOBO HAO, YULAN LIU
 33: CN 31: 202110147687.1 32: 2021-02-03
54: ANTIBODIES AGAINST HUMAN TSLP AND USE THEREOF

00: -
 A bispecific antibody and a monoclonal antibody against human thymic stromal lymphopoietin (TSLP), and a use thereof.

21: 2023/08519. 22: 2023/09/05. 43: 2025/11/03
 51: C07K
 71: REGENERON PHARMACEUTICALS, INC.
 72: TUSTIAN, Andrew, WANG, Shunhai, LI, Ning, VARTAK, Ankit, DALY, Thomas, PYLES, Erica, PALACKAL, Nisha, FRANKLIN, Matthew
 33: US 31: 62/944,635 32: 2019-12-06
 33: US 31: 63/065,012 32: 2020-08-13
54: ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME

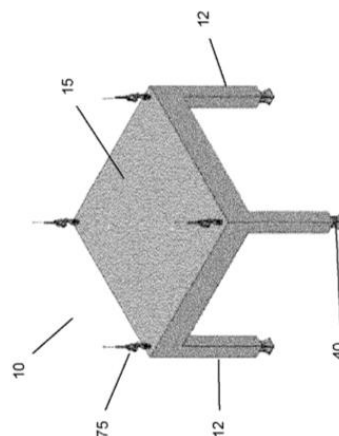
00: -
 The present disclosure pertains to compositions comprising anti-VEGF proteins and methods for producing such compositions.



21: 2023/08674. 22: 2023/09/11. 43: 2025/10/10
 51: E04B
 71: Lodestar Structures Inc.
 72: SEARLES, Darrell Albert, BRADFIELD, Jeffrey Rae Newell
 33: US 31: 63/148,801 32: 2021-02-12
54: MODULE FOR USE IN PREPARING A PREFABRICATED STRUCTURE, METHOD FOR MANUFACTURING SAME AND TRANSPORT FRAME

00: -
 The present invention provides a reinforced concrete module for use in preparing a prefabricated structure

comprising a horizontal slab, four corner columns, perimeter beams extending downwardly from a respective longitudinal and transversal edges of the horizontal slab and extending between and connected to adjacent columns; at least two transverse ribs located on an underside of the horizontal slab and extending between two opposing perimeter beams, wherein the module is fabricated as a unitary body. Also provided is a method for fabricating the module, as well as a transport frame configured to support a module on a transport vehicle.



21: 2023/10103. 22: 2023/10/30. 43: 2025/11/06
 51: G01R
 71: GTS DEUTSCHLAND GMBH
 72: Markus KOCH, Dominik LING
 33: EP 31: 21177318.9 32: 2021-06-02
54: FREQUENCY MONITORING CIRCUIT AND METHOD FOR MONITORING THE FREQUENCY OF AN AC-SIGNAL

00: -
 The invention concerns a frequency monitoring circuit for monitoring an arbitrary AC-input signal, comprising: an AC signal input (1); a resettable circuit (2) comprising a capacitor (3), a reference power supply (4, 4'), and a discharge switch (5) to control charging and discharging of the capacitor (3); a switch control (6) being adapted to detect a predetermined edge of the AC-input signal and to control opening and closing of the discharge switch (5) in dependence of the detected predetermined edge; a comparator (10) for comparing the capacitor voltage with at least one threshold limiting a predetermined allowed frequency range, and for providing a comparator output signal at its output

(14a, 14b) indicating whether the capacitor voltage complies with the threshold; and a memory element (11) for receiving the comparator output signal (14a, 14b), a signal output (15) for outputting a constant frequency-ok-output signal as long as the input signals stays within the allowed frequency range, wherein the output signal is updated by the comparator output signal, and a trigger input (12) connected for triggering the memory element (11).

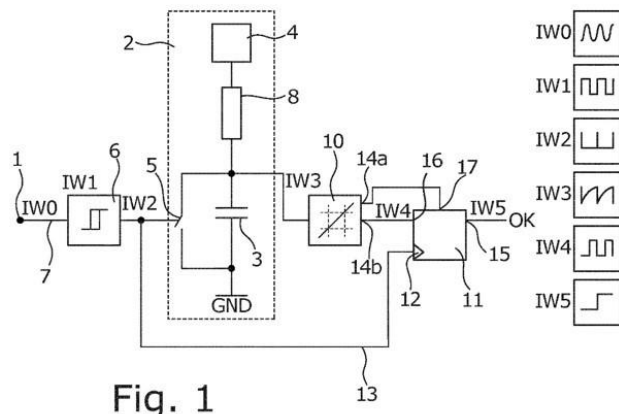


Fig. 1

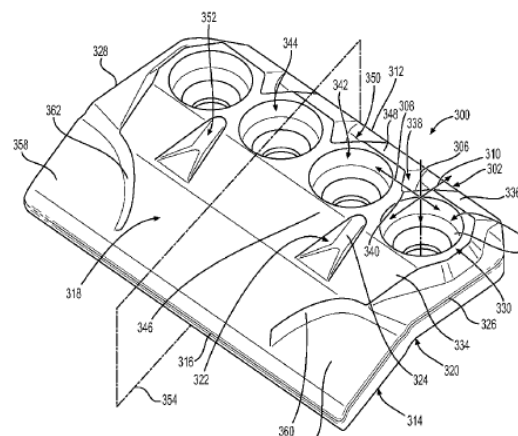


FIG. 2

21: 2023/10632. 22: 2023/11/16. 43: 2025/09/18
51: E02F
71: CATERPILLAR INC.
72: WELLS, Corey Michael, SERRURIER, Douglas C.
33: US 31: 17/325,410 32: 2021-05-20

54: TOP COVER FOR PROTECTING A BASE EDGE

00: -

A top cover (300) for protecting a base edge defines a first fastener receiving void (304) that is disposed along the direction of material flow (310) between the forward ramp portion (314) and the rear edge (312). The top male angled surface (318) of the top cover (300) defines a first material flow groove that extends along the direction of material flow (310), and includes a first flow ramp (324). The first material flow groove (322) is disposed adjacent along the lateral direction (308) and the direction of material flow (310) to the first fastener receiving void (304).

21: 2023/11416. 22: 2023/12/12. 43: 2025/10/10
51: G06F

71: TANAR CORP.

72: KASHYAP, Arun

33: US 31: 17/945,551 32: 2022-09-15

54: COMPUTER-IMPLEMENTED VISUAL QUERY MATCHING METHODS, AND SYSTEMS FOR IMPLEMENTING THEREOF

00: -

The embodiments described herein are directed to computer-implemented visual query matching methods and systems for implementing thereof. An example method includes storing first query data including queries associated with a first set of users, wherein each query includes selected criteria from multiple query criteria and first filter data for the multiple query criteria; storing second query data including metadata and queries associated with a second set of users, wherein each query includes selected criteria from the multiple query criteria and second filter data for the multiple query criteria; determining, by a processor, matching users from the second set of users for a first user of the first set of users; and providing, by the processor to the first user, a dashboard display including a matrix of the matching users.

21: 2023/11519. 22: 2023/12/14. 43: 2025/10/31
51: B64C

71: FIXAR-AERO, SIA

72: Vasilii Fainveits, Sergei Lobanov

54: HYBRID FIXED ANGLE ROTOR UNMANNED AERIAL VEHICLE WITH VERTICAL TAKEOFF AND LANDING CAPABILITIES

00: -

The disclosure relates to hybrid unmanned aerial vehicle (UAV) having vertical take-off and landing (VTOL) capabilities. Specifically, the disclosure relates to a stable hybrid fixed angle rotor arrays UAV having VTOL capabilities with hovering capabilities using rotors and cruising using fixed wing.

21: 2024/01753. 22: 2024/02/29. 43: 2025/09/02
51: E06B

71: AFRICA TIMBER MARKETING CC

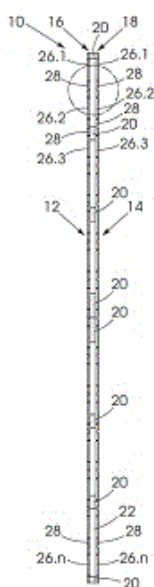
72: SERVAAS JACOBUS BADENHORST

33: ZA 31: 2022/12981 32: 2022-11-30

54: COMPOSITE GROOVE PANEL, DOOR AND METHOD OF CONSTRUCTION

00: -

A composite grooved panel, a method of constructing or manufacturing same, a door incorporating such a panel, and to a method of constructing a complete door. The panel comprises a planar base layer comprising a first and second board interspaced by a slat. An outer layer is formed, at least, on outer surfaces of the first and second boards. The panel also comprises an outward facing groove extending in a direction of, and at least partially along a length of, the slat. The groove is either cut into the slat or defined between spaced apart and facing edges of the boards.



21: 2024/02223. 22: 2024/03/19. 43: 2025/09/09
51: F28D; F28F

71: ARVOS LJUNGSTROM LLC

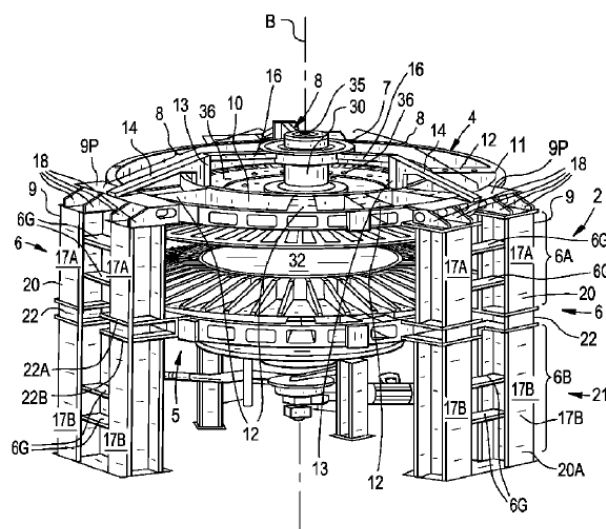
72: STARKS, William, J., ANTES, Mark, S., FULLER, Nicholas, A.

33: US 31: 63/341,785 32: 2022-05-13

54: ROTARY REGENERATIVE MACHINE STRUCTURE

00: -

A support structure for a rotary regenerative machine or rotary absorption machine (RAM), the support structure including an upper stator and a lower stator axially spaced apart from one another by a first segment of at least two pedestals, the first segment of each pedestal extending between the upper stator and the lower stator, and an upper rotor bearing housing mount disposed above a lower surface of the upper stator, the rotor bearing housing mount is attached to the upper stator by at least one radially extending bearing support structure, wherein a radially inner end of at least one of the radially extending bearing support structure is attached to the bearing housing mount and a radially outer end of the at least one radially extending bearing support structure is proximate a top portion of the first segment of each of the pedestals.



21: 2024/03495. 22: 2024/05/07. 43: 2025/11/04
51: C10G

71: IFP ENERGIES NOUVELLES

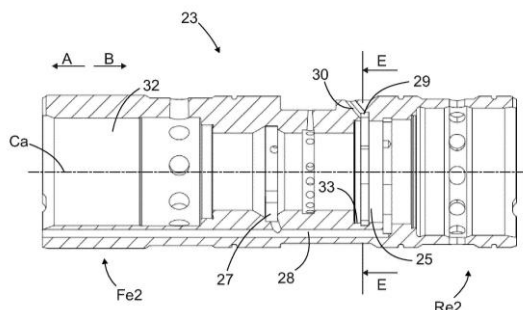
72: COUDERC, Sophie, DEHLINGER, Marie, GOMEZ, Adrien, HUDEBINE, Damien, MARION, Marie-Claire, FECANT, Antoine

33: FR 31: FR2114038 32: 2021-12-20

54: METHOD FOR TREATING A PETROL CONTAINING SULPHUR COMPOUNDS

00: -

Disclosed is a method for treating a petrol containing sulphur compounds, olefins and diolefins, the method comprising at least the following steps: (a) bringing the petrol into contact, in at least one reactor, with hydrogen and a hydrodesulphurisation catalyst comprising an oxide support and an active phase comprising a group VI B metal and a group VIII metal; (b) bringing the effluent obtained on completion of step (a) into contact, in at least one reactor, with hydrogen and a hydrodesulphurisation catalyst comprising an oxide support and an active phase consisting of at least one group VIII metal; (c) transferring the effluent obtained on completion of step (b) to a separation vessel operating at a pressure of between 1.0 and 2.0 MPa to obtain a gaseous fraction containing H₂S and hydrogen and a liquid fraction containing the desulphurised petrol and a dissolved H₂S fraction; (d) transferring said liquid fraction obtained on completion of step (c) to a stabilising column so as to obtain, at the top, a stream comprising the residual H₂S and C₄-hydrocarbon compounds and, at the bottom, a stabilised petrol; (e) at least partially recycling the gaseous fraction obtained on completion of step (c) to at least one of steps (a) and/or (b).

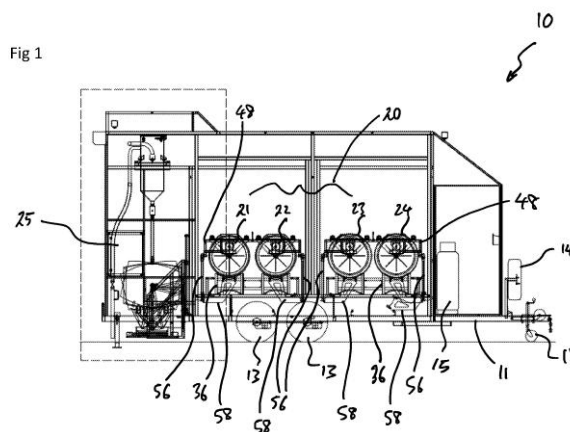


21: 2024/03762. 22: 2024/05/15. 43: 2025/09/04
51: B08B; B24B; B27C; B27H; B27M
71: BARREL REJUVENATION SERVICES PTY LTD
72: BLAKEMAN, Jonathan Lindsay, WALKER, Kimberley John Buist, MCDONALD, Ronald John
33: AU 31: 2021903510 32: 2021-11-03

54: APPARATUS AND METHOD OF TREATING THE INTERNAL SURFACES OF A TIMBER BARREL WITH AN ABRASIVE

00: -

Apparatus (10) and method for cleaning, rejuvenating or treating the internal surfaces of a timber barrel (28) with an abrasive, the apparatus (10) comprising a clamping arrangement that includes at least one clamp (21-24) for clamping the barrel (28). The clamp (21- 24) being rotatable to rotate the barrel 28 about its axis and the clamping arrangement being operable to tilt the axis of the barrel 28 during rotation through at least about 20°, preferably 25-40°, to either side of horizontal.



21: 2024/03884. 22: 2024/05/20. 43: 2025/09/04
51: F16L
71: LINCOR HOLDINGS (PTY) LTD
72: TURK, Timothy David
33: ZA 31: 2023/07015 32: 2023-07-12
54: A MODIFIED TAIL PIECE

21: 2024/03636. 22: 2024/05/10. 43: 2025/09/04
51: B25D; E21B

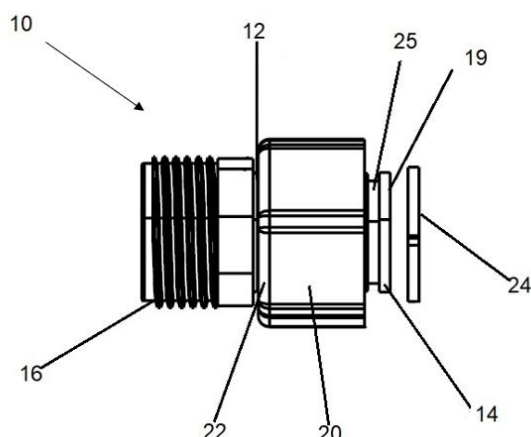
71: Sandvik Mining and Construction Oy
72: PÖLÖNEN, Juha, NIEMI, Jarkko, KELA, Timo
33: EP(FI) 31: 21212280.8 32: 2021-12-03
54: VALVE CYLINDER, IMPACT DEVICE AND METHOD

00: -

A valve cylinder, an impact device of a rock breaking apparatus and a method for preventing cavitation in a hydraulic impact device of a rock breaking apparatus. The valve cylinder (23) is an elongated piece comprising a central opening (32) arranged for a percussion piston (19). The valve cylinder comprises two pressure spaces (25, 27) which are located at an axial distance from each other and are in fluid connection via axial fluid channels (28). One of the pressure spaces is a control space (25) inside which a sleeve-like control valve (26) can be mounted. The control space comprises a radial groove (29) bottom surface (33) of which in non-circular and is provided with transverse openings (30).

00: -

The invention provides a tail piece comprising a hollow pipe, with a first end connectable to a male threaded inlet or outlet of a fluid meter, and a second end connectable to a fluid line; a slip nut, complementally threaded to the threaded fluid meter inlet or outlet and receivable on the first end of the pipe, the back of the nut being inwardly lipped and the internal diameter of both the nut's bore and lip being larger than the external diameter of the first end of the pipe; and a removable circlip, the outer diameter of which is bigger than the internal diameter of the nut lip but smaller than the diameter of the bore of the nut, receivable in a groove towards the first end of the pipe in front of the lip of the nut, once the nut is on the pipe.

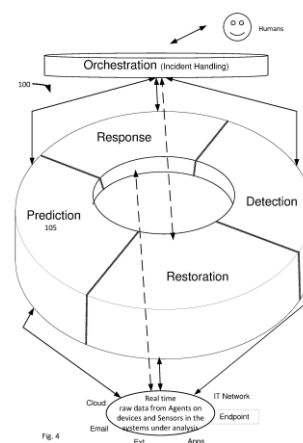


21: 2024/03947. 22: 2024/05/21. 43: 2025/09/04
51: G06F; H04L
71: Darktrace Holdings Limited
72: FELLOWS, Simon, STOCKDALE, Jack, DUNN, Matt
33: US 31: 63/281,978 32: 2021-11-22
54: AN INTERACTIVE ARTIFICIAL INTELLIGENCE-BASED RESPONSE LOOP TO A CYBERATTACK

00: -

An intelligent orchestration component can facilitate an AI augmented and adaptive interactive response loop between multiple AI-based engines. A cyber threat detection uses AI to detect a cyber threat. An autonomous response engine uses AI to mitigate the detected cyber threat. A cyber-security restoration engine uses AI to remediate nodes in the system to a trusted operational state. The prediction engine uses AI to conduct simulations of cyberattacks to

assist in determining how a simulated cyberattack might occur in the system, and how to use the simulated cyberattack information to preempt possible escalations of an ongoing actual cyberattack. The multiple AI-based engines bilaterally exchange behavioral metrics between the AI-based engines to work together to provide an overall cyber threat response during the ongoing cyberattack in light of continuing attack activities and simulations of the cyberattack to predict what might occur in the nodes based on the mitigation actions taken and/or the restoration actions taken.

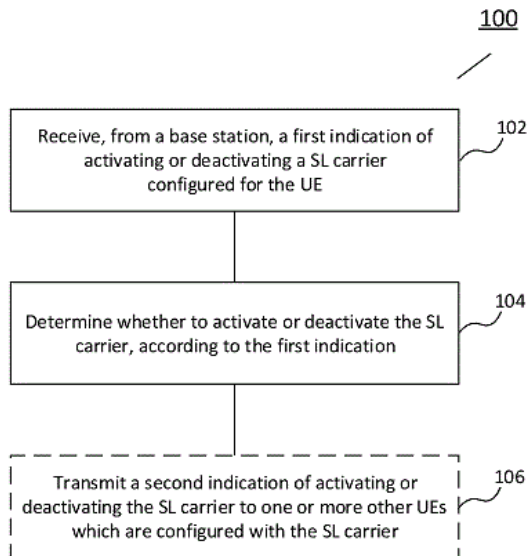


21: 2024/03977. 22: 2024/05/22. 43: 2025/09/04
51: H04W H04L
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: ZHANG, Zhang, WANG, Min
33: CN 31: PCT/CN2021/127141 32: 2021-10-28
54: METHOD AND APPARATUS FOR CARRIER AGGREGATION

00: -

Various embodiments of the present disclosure provide a method for carrier aggregation. The method which may be performed by a user equipment comprises: receiving, from a base station, a first indication of activating or deactivating a sidelink carrier configured for the user equipment. In accordance with an exemplary embodiment, the method further comprises: determining whether to activate or deactivate the sidelink carrier, according to the first indication. In accordance with another exemplary embodiment, the method further comprises: transmitting a second indication of activating or deactivating the SL carrier to one or

more other UEs which are configured with the SL carrier.



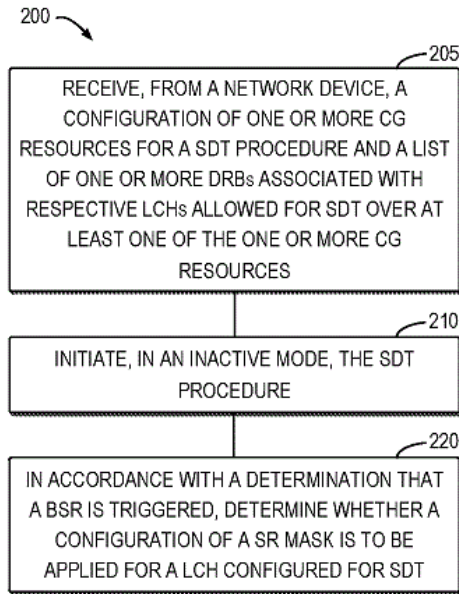
21: 2024/03978. 22: 2024/05/22. 43: 2025/09/17
51: H04W

71: NOKIA TECHNOLOGIES OY
72: WU, Chunli, TURPINEN, Samuli, Heikki, KOSKINEN, Jussi-Pekka

54: SCHEDULING REQUEST AND RANDOM ACCESS TRIGGERING FOR SDT

00: -

The present discloses a device, method, apparatus and computer readable storage medium of scheduling request (SR) and random access (RA) triggering for small data transmission (SDT). In example embodiments, a terminal device receives, from a network device, a configuration of one or more configured grant (CG) resources for a SDT procedure and a list of one or more data radio bearers (DRBs) associated with respective logical channels (LCHs) allowed for SDT over at least one of the one or more CG resources. After the terminal device initiates the SDT procedure in an inactive mode, if the terminal determines that a buffer status report (BSR) is triggered, the terminal device determines whether a configuration of a SR mask is to be applied for a LCH configured for SDT.



21: 2024/04077. 22: 2024/05/24. 43: 2025/09/26
51: C10M

71: FUCHS SE

72: Hans Jürgen ERKEL, Olaf BINKLE, Torsten GOERZ

33: DE 31: 10 2021 133 469.1 32: 2021-12-16

54: METHOD FOR PRODUCING LUBRICATING GREASES OF LITHIUM COMPLEX SOAPS AND LITHIUM-CALCIUM COMPLEX SOAPS

00: -

The object of the invention is a method for the production of lithium complex soap lubricating greases or lithium-calcium complex soap lubricating greases and corresponding lubricating greases produced by this process and their use in slide and rolling bearings.

21: 2024/04172. 22: 2024/05/28. 43: 2025/09/04
51: B01D; B01F

71: METSO FINLAND OY

72: VIDUKA, Stephen Martin

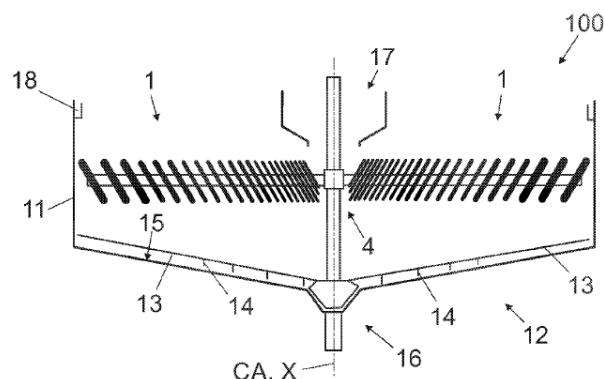
33: FI 31: 20216120 32: 2021-10-28

54: SHEARING DEVICE, ARRANGEMENT AND USE

00: -

A shearing device (1), an arrangement and uses thereof. The shearing device is connectable to a drive assembly of the arrangement for separating solids from liquid, the shearing device (1) comprising - attachment arrangement (3) arranged in a first end (4) of the device for connecting the shearing device (1) to the drive assembly, - a shearing arrangement

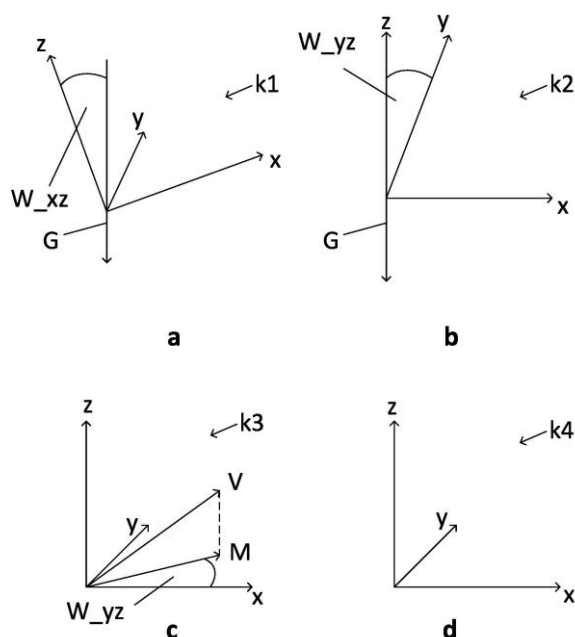
(19) being arranged to define shearing elements (5) angled with the lengthwise direction (AL) of the device and intervals (6) therebetween, wherein - the device (1) has a proximal portion (7) closer to the first end (4) and a distal portion (8) closer to a second end (9) of the device opposite to the first end (4), and - average width of the shearing elements (5) arranged in the distal portion (8) is greater than average width of the shearing elements (5) arranged in the proximal portion (7).



21: 2024/04177. 22: 2024/05/28. 43: 2025/09/04
51: G01H
71: Sandvik Rock Processing Australia Pty Limited
72: RAIS, Viktor, SCHÄFER, Jan
33: DE 31: 10 2021 131 189.6 32: 2021-11-29
54: METHOD FOR MEASURING VIBRATIONS OF A VIBRATION MACHINE
00: -

The invention relates to a method in which vibrations of a vibration machine, more particularly of a vibrating screen and a vibratory conveyor, are measured by means of a vibration sensor during operation. The vibration sensor measures vibration components of the vibrations of the vibration machine in three spatial directions of a Cartesian sensor coordinate system. The three vibration components form a vibration vector. In vibration measurement processes, a gravity vector describing the direction of gravity is determined. Furthermore, a machine vector describing a preferred direction of a forced vibration of the vibration machine is determined. In addition, a three-dimensional Cartesian measurement coordinate system is formed, which is oriented on the basis of the direction of gravity and the preferred direction. The vibration vector is mapped from the sensor

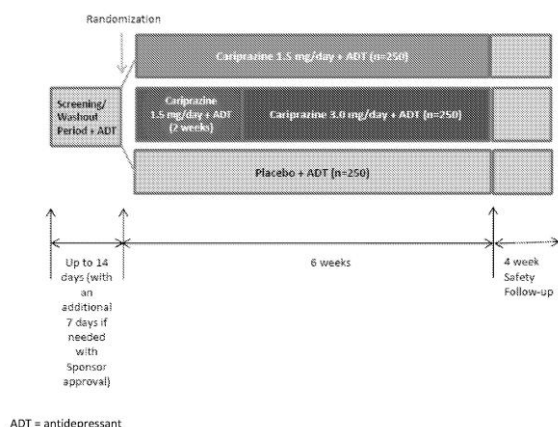
coordinate system to the measurement coordinate system.



21: 2024/04183. 22: 2024/05/28. 43: 2025/09/04
51: A61K; C07D; A61P
71: RICHTER GEDEON NYRT.
72: REKEDA, Ludmyla, BUDUR, Kumar, EARLEY, Willie
33: US 31: 63/263,213 32: 2021-10-28
33: US 31: 63/362,446 32: 2022-04-04
54: TREATMENT OF MAJOR DEPRESSIVE DISORDER
00: -

The present disclosure provides methods for the treatment of major depressive disorder (MDD) by administering cariprazine or a pharmaceutically acceptable salt thereof, as an adjunct to antidepressant therapy in the treatment of subjects with major depressive disorder. The administration of cariprazine achieves statistically significant change from baseline to Week 6 in the Montgomery Asberg Depression Rating Scale (MADRS) total score.

Figure 1. Study Schematic



21: 2024/04290. 22: 2024/05/31. 43: 2025/09/05
51: A61K; A61P; C07D

71: Merck Sharp & Dohme LLC, The Walter and Eliza Hall Institute of Medical Research, MSD R&D (China) Co., Ltd.

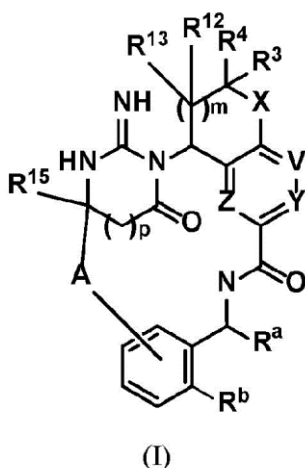
72: MCCAULEY, John A., DE LERA RUIZ, Manuel, GUO, Zhuyan, NANTERMET, Philippe, KELLY III, Michael J., GUTIERREZ BONET, Alvaro, ZHAO, Lianyun, LEI, Zhiyu, HU, Bin, ZHAN, Dongmei, HODDER, Anthony

33: PCT/CN 31: 2021/136177 32: 2021-12-07

54: ANTIMALARIAL AGENTS

00: -

The present invention provides methods of treating malaria comprising administration of compounds of Formula (I) or a pharmaceutically acceptable salt thereof, to a subject in need thereof, wherein the variables are as defined herein. The invention also provides uses of the compounds of Formula (I), as defined herein, for inhibiting plasmeprin X, plasmeprin IX or plasmeprin X and IX activity, for treating a *Plasmodium* infection, and for treating malaria. Also provided are methods of treatment further comprising administration of one or more additional anti-malarial compounds.



21: 2024/04491. 22: 2024/06/10. 43: 2025/09/11
51: B65D; G06K

71: UnaBiz

72: CHALBOS, Nicolas, JELOYAN, Christophe

33: FR 31: 2112078 32: 2021-11-15

54: REUSABLE AND/OR RECYCLABLE SMART PACKAGING

00: -

The invention relates to an item of smart packaging (100) comprising a wall surrounding an interior space, said wall supporting an electronic device (160). For the purpose of reuse or recycling, the smart packaging also comprises at least one detachable section (136, 191) formed over all or part of the wall of the thickness of the smart packaging, and a device (180, 190) for detecting a connection between the detachable section and the remainder of the smart packaging, the detection device being configured to switch a mode of the electronic device when said connection is altered.

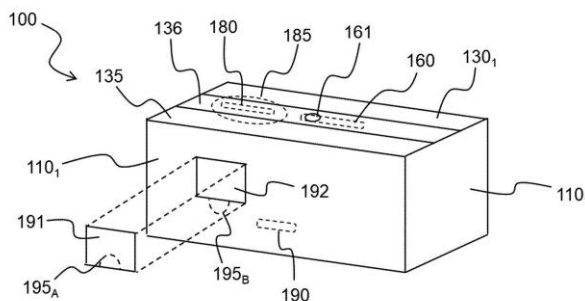


FIG. 3

21: 2024/04492. 22: 2024/06/10. 43: 2025/09/11
51: B65D; G06K

71: UnaBiz

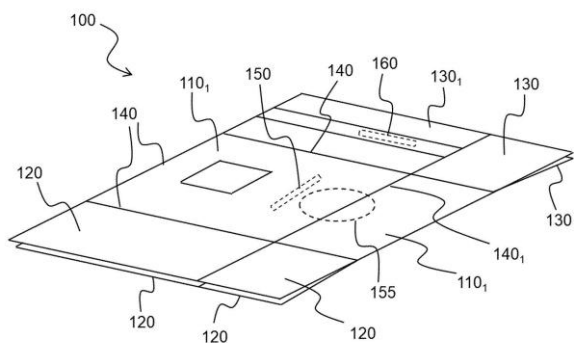
72: CHALBOS, Nicolas, JELOYAN, Christophe

33: FR 31: 2112077 32: 2021-11-15

54: CONNECTED PACKAGING AND ASSOCIATED ACTIVATION METHOD

00: -

The invention relates to a connected packaging (100), comprising an electronic device (160). The connected packaging also comprises at least one device (150) for detecting a change of shape of the connected packaging, such as folding or opening/closing of the packaging, at least one detection device being configured to switch a mode of the electronic device upon detection of the modification.

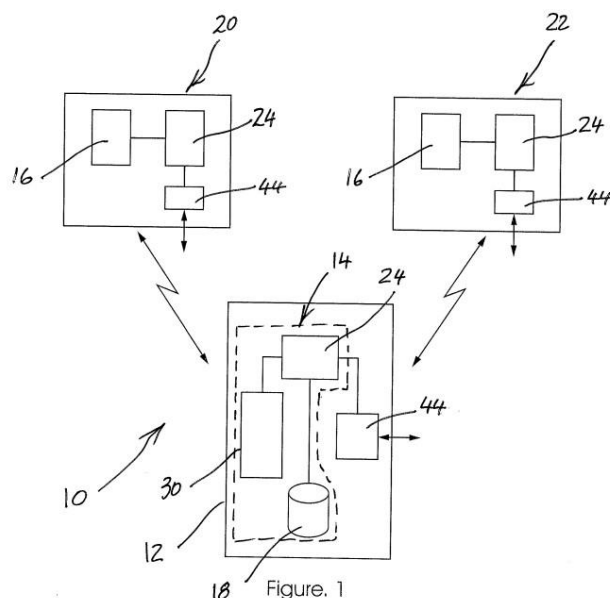


21: 2024/04762. 22: 2024/06/19. 43: 2025/11/06
 51: G06Q
 71: LABOURDRIVE (PTY) LTD
 72: HARALAMBOUS, Christodoulos, MATTHEWS, Dane, WILSON, James
 33: ZA 31: 2023/06494 32: 2023-06-23

54: A SYSTEM TO ENABLE MANAGEMENT OF AN EMPLOYMENT RELATIONSHIP BETWEEN AN EMPLOYER AND AN EMPLOYEE

00: -

The invention provides a system to enable management of an employment relationship between an employer and an employee, which system includes a server which has: a processing means and related software running on the processing means, a database in communication with the processing means that contains, at least, a set of documents, each relating to an event, standard compliance process or a policy in the employment relationship, which processing means is accessible to an employee device and to an employer device, and which processing means is configured to push a document chosen from the set on instruction between the database and the employee or employer, prompted by the employer or employee respectively.



21: 2024/05013. 22: 2024/06/26. 43: 2025/09/09
 51: A61B; A61N
 71: ALPHA TAU MEDICAL LTD.
 72: KAMAI, Ilay, SEGAL, Ronen, COHEN, Yadin, GAT, Amnon
 33: US 31: 63/291,966 32: 2021-12-21

54: AUTOMATIC ESTIMATION OF POSITIONS OF BRACHYTHERAPY SEEDS

00: -

A system includes a memory (26), configured to store program instructions, and a processor (22). The processor is configured to load the program instructions from the memory, and by executing the program instructions, to process a three-dimensional image (38) of a portion of a body of a subject in which multiple brachytherapy seeds grouped into one or more seed groups (36) are implanted, so as to identify clusters (37) of voxels of the image corresponding to the seed groups, respectively, to compute respective estimated positions of the brachytherapy seeds based on respective dimensions of each of the clusters, and to store or communicate the estimated positions for use in computing an effective dose of the brachytherapy seeds. Other embodiments are also described.

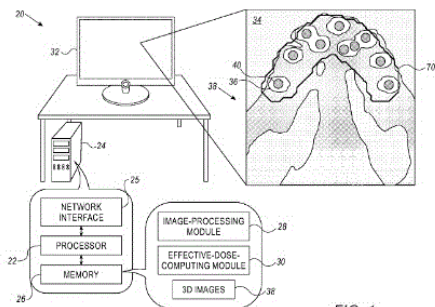


FIG. 1

21: 2024/05226. 22: 2024/07/04. 43: 2025/10/10
 51: C21C; F27B; F27D
 71: DANIELI & C. OFFICINE MECCANICHE S.P.A.
 72: ANSOLDI, Marco, PATRIZIO, Damiano,
 TERLICHER, Stefano, MARCONI, Gianfranco
 33: IT 31: 102021000030824 32: 2021-12-07

54: ELECTRIC ARC FURNACE FOR MELTING METAL MATERIAL AND STEEL PLANT COMPRISING SAID ELECTRIC ARC FURNACE

00: -
 Electric arc furnace (10) usable for melting a metal charge (M) and comprising a container (11) having at least one perimeter wall (20) in which there are an upper aperture (21), a lateral slagging aperture (22) and a lateral feed aperture (43). A roof (15), able to be opened selectively, can be positioned on the upper aperture (21) of the container (11) and is provided with a central part (30) having one or more through holes (31) into which respective electrodes (32) can be inserted with clearance to melt the metal charge (M).

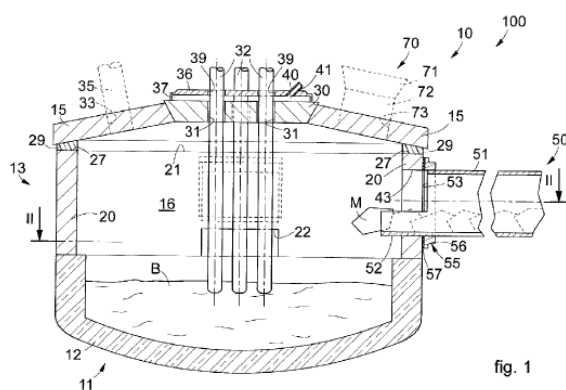


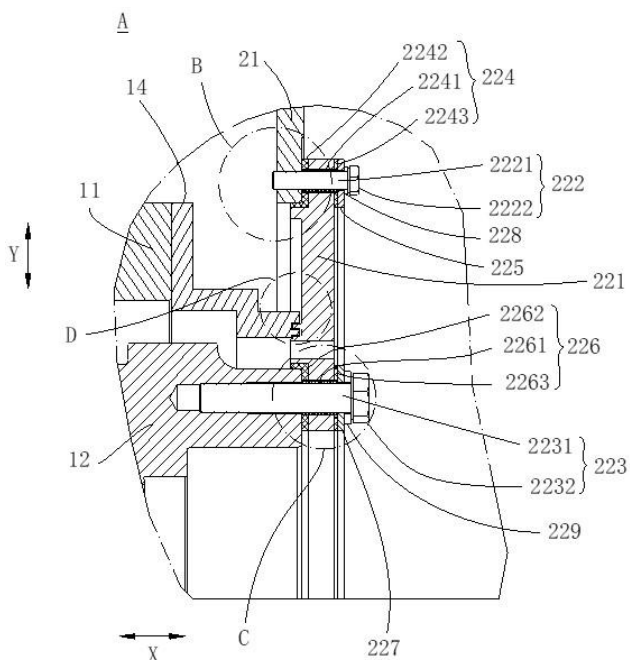
fig. 1

21: 2024/05232. 22: 2024/07/04. 43: 2025/10/10
 51: F03D; H02K
 71: BEIJING GOLDWIND SCIENCE & CREATION
 WINDPOWER EQUIPMENT CO., LTD.
 72: SHI, Shengjie, LI, Yanhui, LI, Mingwei
 33: CN 31: 202210750682.2 32: 2022-06-29

54: TRANSMISSION SYSTEM AND WIND POWER GENERATING SET

00: -

A transmission system (1) is provided, and the transmission system (1) includes: a gearbox (10), including a housing (11), an output shaft (12) and a bearing (13), the output shaft (12) being rotatably connected with the housing (11) through the bearing (13); a generator (20), including a rotor (21), a stator and a packaging assembly (22), the stator being connected with the housing (11), the rotor (21) being connected with the output shaft (12), and the packaging assembly (22) including a cover (221), a first connecting member (222) and a second connecting member (223), the cover (221) is located on the same side of both the output shaft (12) and the rotor (21), is connected and fixed with the rotor (21) through the first connecting member (222), and is connected and fixed with the output shaft (12) through the second connecting member (223); the cover (221) is insulated from both the first connecting member (222) and the rotor (21), and the cover (221) is insulated from both the second connecting member (223) and the output shaft (12). A wind turbine generator system is further provided. The transmission system can reduce the influence of the shaft voltage to the bearing and has a low cost.



21: 2024/05259. 22: 2024/07/05. 43: 2025/10/10
 51: E04G

71: PERI SE

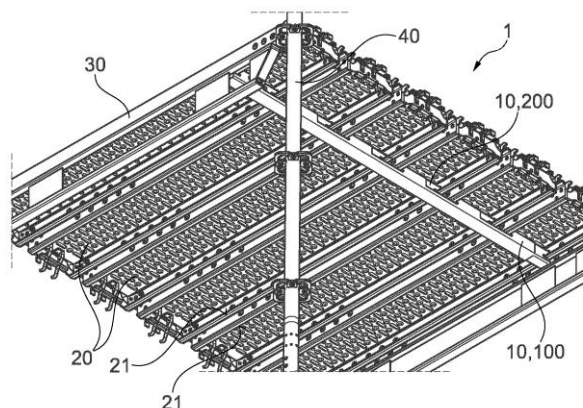
72: HELLENSCHMIDT, Julian

33: DE 31: 10 2022 200 448.5 32: 2022-01-17

54: BEAM FOR SCAFFOLD PLATFORMS, SCAFFOLD PLATFORM PLANE, METHOD FOR FORMING A SCAFFOLD PLATFORM PLANE, AND USE OF A BEAM

00: -

The invention relates to a beam (10) for scaffold platforms (20) for forming a scaffold platform plane (1), comprising at least two profiles (100, 200) which are guided longitudinally displaceably in one another and have recesses (110, 210) which, in the overlapping region, form openings for the reception of scaffold platforms (20), wherein the shape and/or the size of the openings is variable by longitudinal displacement of the profiles (100, 200) relative to one another. The invention also relates to a scaffold platform plane (1), a method for building a scaffold platform plane (1) and the use of a beam (10).



21: 2024/05332. 22: 2024/07/09. 43: 2025/10/23

51: E04H

71: GOODWIN, Rebecca

72: ROBERTSON, Robin Stuart, RIVETT-CARNAC, Sebastian, CORBETT, Jeremy

33: ZA 31: ZA 2021/10951 32: 2021-12-24

54: A ROOFTOP TENT

00: -

The invention provides a rooftop tent enclosure which includes; a base detachably fixed to a roof of the vehicle, which includes a first load bearing base panel and a perimeter frame which engages a perimeter of the first base panel; a base extension rotatably connected to the base; a cover rotatably connected to the base to open and close on an upper surface of the base, which includes a second

load bearing flat panel and a sidewall which extends between an upper edge and a lower edge, which engages the second flat panel at the upper edge.

21: 2024/05425. 22: 2024/07/11. 43: 2025/11/04

51: B60K; F02M

71: WORK AIR TECHNOLOGIES PTY LTD

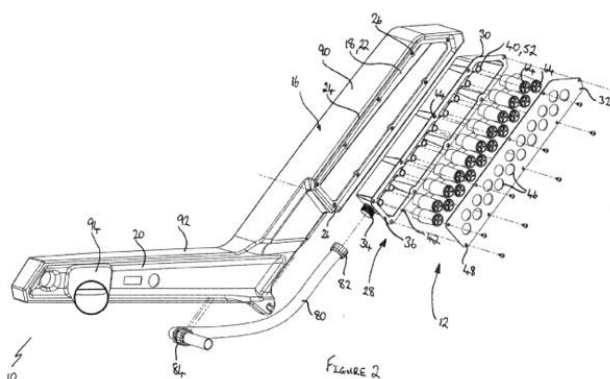
72: Gregory KNOWLES

33: AU 31: 2021904033 32: 2021-12-13

54: AUTOMOTIVE SNORKEL INCORPORATING AN AIR FILTRATION SYSTEM

00: -

An automotive snorkel (10, 200, 300, 400) for a vehicle (1) having an engine bay (5) in which an engine (6) incorporating an air intake system is located. The automotive snorkel (10, 200, 300, 400) comprises a hollow housing (12) having an upper opening (22) and at least one lower outlet (94), a mounting box (28) adapted to be received in the upper opening (22) and a plurality of removable filters (56). The mounting box (28) includes a plurality of filter mounts (50) and a filtration outlet (36) to an external environment. Each filter (56) is removable and adapted to be securely retained by a filter mount (50). Air only enters the snorkel (10, 200, 300, 400) by way of the upper opening (22) where it is directed towards the filters (56) that filter the particles entrained therein using centrifugal force, the separated particles thereafter directed to the external environment by way of the filtration outlet (36). The filtered air is directed through the hollow housing (12) to at least one of the lower outlets (94) for subsequent delivery to the engine.



21: 2024/05623. 22: 2024/07/19. 43: 2025/10/23

51: B65D

71: TOP CAP HOLDING GMBH

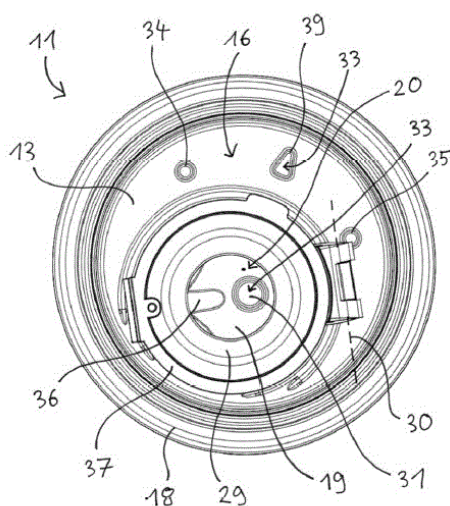
72: PIECH, Gregor, Anton

33: DE 31: 10 2023 109 429.7 32: 2023-04-14

54: CAN END

00: -

A can end comprises a metallic end surface having a first flat side and a second flat side facing away from the first flat side, wherein an opening is formed in the end surface, which opening is bounded by a closed margin of the end surface and closed by a closure piece that is separated from the surrounding end surface by a microgap extending along the margin of the end surface, wherein a first end region of the closure piece is connected to the surrounding end surface via a pivot bearing; and a tear-open member that is arranged at the first flat side and that engages at a second end region of the closure piece, said second end region being opposite the pivot bearing, so that a pivoting of the closure piece is made possible by pulling at the tear-open member, wherein the microgap is interrupted between the first end region and the second end region by at least one holding web. A pressure relief wave is embossed into the end surface and extends at least partly around the opening.



21: 2024/05701. 22: 2024/07/23. 43: 2025/10/28

51: F04B; F04F

71: WEIR MINERALS NETHERLANDS B.V.

72: STROEKEN, Johannes, UMMENTHUN, Frank

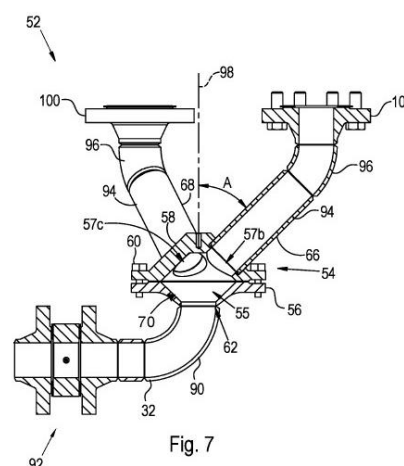
33: GB 31: 2202050.7 32: 2022-02-16

54: DISTRIBUTION MANIFOLD

00: -

A distribution manifold for a pressure exchange chamber pumping system having a plurality of pressure exchange chambers arranged in parallel.

The distribution manifold includes: a hollow manifold body defining a distribution chamber; an inlet leading into the body and connectable in flow communication with a medium supply; and a plurality of spaced apart outlets opening operatively upwardly out of the body, each outlet being connectable in flow communication with a medium inlet valve of a pressure exchange chamber.



21: 2024/05735. 22: 2024/07/24. 43: 2025/10/29

51: B23K; G01N

71: EJOT SE & CO. KG

72: MAIWALD, Mario, WERKMEISTER, Marco, MUELLER, Toni

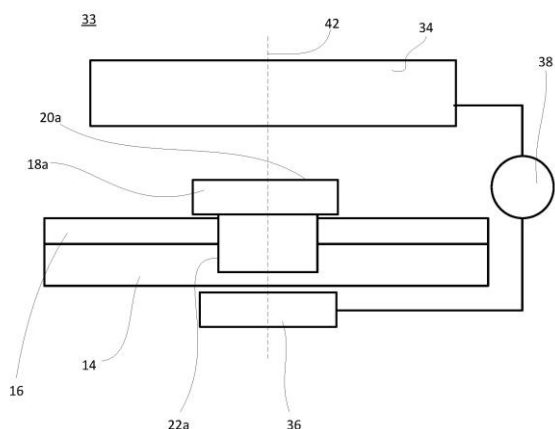
33: DE 31: 10 2022 102 940.9 32: 2022-02-08

54: METHOD AND DEVICE FOR NON-DESTRUCTIVELY TESTING A CONNECTION POINT IN A COMPONENT ASSEMBLY

00: -

The invention relates to a method for non-destructively testing a connection point (10) in a component assembly, comprising a base layer (14) and at least one cover layer (16), and a connection element (12a, 12b) with a head (18a, 18b) and a shaft (22a, 22b), the connection point (10) being formed between the shaft (22a, 22b) of the connection element (12a, 12b) and the base layer (14), wherein the cover layer (16) has a thermal conductivity which is greater than that of the base layer (14) and of the connection element (12a, 12b), wherein the test is carried out by means of a thermal imaging camera (34) and an inductor (36) arranged on the component assembly side opposite the thermal imaging camera (34), wherein the inductor (36) inductively excites the base layer (14) at an excitation time by means of a pulse via an active

surface, furthermore: • at a first detection time, a reference image of the connection point (10) is captured by the thermal imaging camera (34), the head (18a, 18b) being imaged as a head surface area (20a, 20b); • at a second detection time (44), a test image which analogous to the reference image is captured, said second detection time (44) occurring after the first detection time and a specified duration after the excitation time; • an analysis region (42) is defined in the test image and/or in the reference image, wherein the analysis region (42) at least partly comprises the head surface (20a, 20b), and wherein the analysis region (42) is divided into sub-regions, in particular pixels, said sub-regions being assigned a temperature value; • a temperature change value is formed using a rule on the basis of the temperature values of the corresponding sub-regions of the reference and test image; • On the basis of the temperature change value, an "OK" value is formed if the temperature change lies in a pre-defined temperature interval with at least one lower boundary; • the connection point (10) is classified in that the sum of the sub-regions with an "OK" value is compared with a reference interval with at least one predetermined lower interval boundary, the connection point (10) being classified as an "OK" connection if the sum lies in the reference interval, otherwise the connection point (10) is classified as a "not OK" connection.



21: 2024/05825. 22: 2024/07/29. 43: 2025/09/10
51: A61M
71: AERODEL TECHNOLOGIES LLP

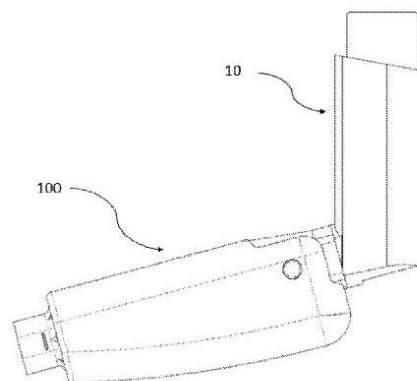
72: SANGWAI, Shradha, JAFFER, Zahir, K K, Suraj Rajan

33: IN 31: 202121061896 32: 2021-12-30

54: AN ENHANCER FOR DELIVERY OF AEROSOL FROM A PRESSURIZED METERED DOSE INHALER (PMDI)

00: -

The present subject matter discloses an enhancer (100) for delivery of aerosol from a pressurized Metered Dose Inhaler (pMDI, 10) to a user. The enhancer comprises a holding chamber (110), a connector (120) and a one way valve (130). The holding chamber (110) is having a first end (112) configured to receive aerosol from the pMDI (10) and a second end (114) configured to form a mouthpiece (114) for engagement with the user's mouth. The connector (120) is having an adapter end (122) configured to be connected with the pMDI (10) and a pivot end (124) configured to pivotally mount the first end (112) of the holding chamber (110). Further, the connector (120) is configured to swivel the holding chamber (110) around the pivot end (124).



21: 2024/05832. 22: 2024/07/29. 43: 2025/10/28

51: E21B

71: COMACCHIO SPA

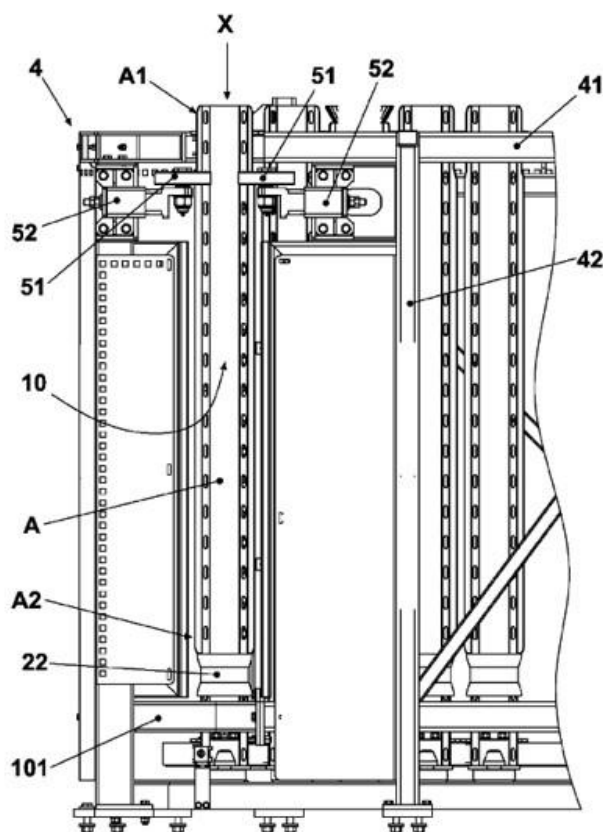
72: Renzo COMACCHIO, Pasqualino COMACCHIO, Patrizio COMACCHIO

54: DRILLING MACHINE WITH IMPROVED CAROUSEL LOADING DEVICE

00: -

The invention is a drilling machine comprising a loading device (100) of the carousel type for a plurality of rod modules (A) and possibly also for a plurality of covering modules. The loading device comprises a platform (101), on which said rod modules (A) are arranged in such a way that they

are orthogonal to the platform (101) itself, and conveyor means (2, 21, 22) for conveying said rod modules (A) along a closed path. Said carousel loading device (100) comprises a lateral containment frame (4) provided with an opening (43) intended to allow the extraction and/or insertion of said rod modules (A) through the translation of the same in a direction that is substantially parallel to said platform (101) or has at least one component parallel to said platform (101).



21: 2024/05866. 22: 2024/07/30. 43: 2025/10/28

51: E21D

71: RSC Mining (Pty) Ltd

72: BASSON, Francois

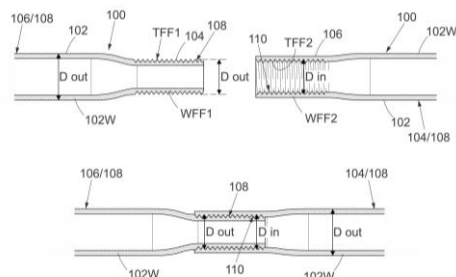
33: ZA 31: 2023/08401 32: 2023-08-31

54: ROCK BOLT COMPONENT, A METHOD OF MANUFACTURING A ROCK BOLT COMPONENT AND A ROCK BOLT ASSEMBLY

00: -

A rock bolt component for use in assembling a rock bolt, which includes at least one end forming a first fixing formation or a second fixing formation, wherein the first fixing formation and the second fixing

formations are complementary to each other, and a first fixing formation is securable to a complementary fixing formation formed at an end of another rock bolt component thereby to allow at least partial assembly of the rock bolt.



21: 2024/05980. 22: 2024/08/02. 43: 2025/11/11

51: B29B; B29C

71: EREMA ENGINEERING RECYCLING MASCHINEN UND ANLAGEN GESELLSCHAFT M.B.H.

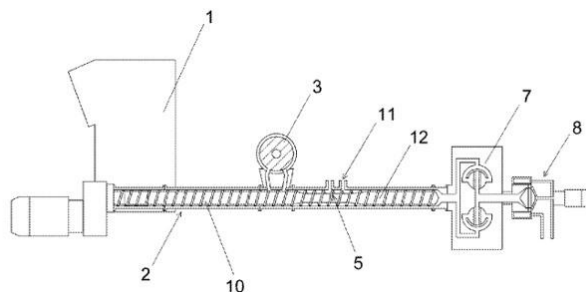
72: Sebastian SOCHOR

33: AT 31: A50088/2022 32: 2022-02-11

54: DEVICE AND METHOD FOR PROCESSING MATERIALS

00: -

The invention relates to a device and a method for processing materials that contain or consist of polymer materials, in particular for processing, during recycling, soiled thermoplastic polymers. The device comprises an extruder (2) having a screw (10) for melting the materials, also having a first filtering unit (3) for filtering the melt and a degassing zone (5) for degassing the melt. According to the invention, a melt pump (6) is connected, at the extruder outlet (9), to the degassing zone (5) or after or downstream of the screw (10).



21: 2024/05987. 22: 2024/08/02. 43: 2025/09/02

51: F16H; H02S; F24S

71: SCHLETTER INTERNATIONAL B.V.

72: GABRIEL DECHANT, JAN ZAPFE

33: DE 31: 10 2022 102 608.6 32: 2022-02-03

54: DRIVE ARRANGEMENT

00: -

The present invention relates to a drive arrangement (18, 38) comprising: at least one transmission element (38) which is rotatable about an axis of rotation (DUE) and comprises at least one drive element (86) and at least one retaining element (88), the at least one drive element (86) being offset in the radial direction in relation to the at least one retaining element (88); and at least one output unit (18), the at least one output unit (18) comprising at least one drive recess (40) and at least one retaining recess (42), wherein the at least one drive element (86) is associated with the at least one drive recess (40) and engages in the at least one drive recess (40) in order to drive the output unit (18), and the at least one retaining element (88) is associated with the at least one retaining recess (42) and engages in the at least one retaining recess (42) in order to hold the output unit (18) in a set position, wherein the at least one drive recess (40) comprises an entry opening (98), an end region (100) and a central region formed between the entry opening (98) and the end region (100), wherein the at least one drive recess (40) has a reduced cross-section in the central region compared to the end region (100).

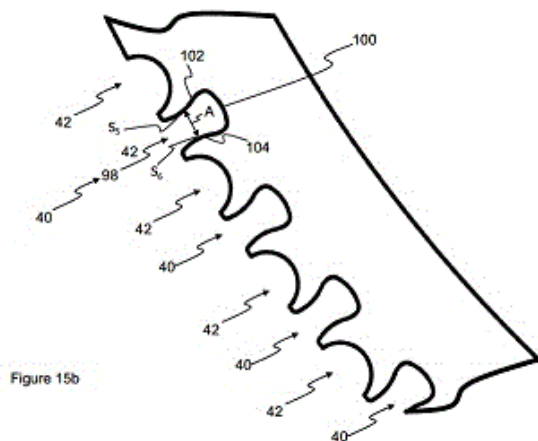


Figure 15b

21: 2024/05988. 22: 2024/08/02. 43: 2025/09/02

51: A61K; A61P

71: KISSEI PHARMACEUTICAL CO., LTD.

72: YUSUKE IMAMURA, KAZUKI MIMURA

33: JP 31: 2022-016505 32: 2022-02-04

54: ORAL SOLID PREPARATION

00: -

An object of the present invention is to provide an oral solid preparation having a rapid dissolution property even when the content of Linzagolix or a pharmacologically acceptable salt thereof in the oral solid preparation varies over a wide range. The present invention relates to an oral solid preparation comprising Linzagolix or a pharmacologically acceptable salt thereof; crystalline cellulose; low-substituted hydroxypropyl cellulose; and one or more disintegrants selected from the group consisting of carmellose sodium, carmellose calcium and croscarmellose sodium, and the like.

21: 2024/06019. 22: 2024/08/05. 43: 2025/09/02

51: A61K; C07D; A61P

71: LEXICON PHARMACEUTICALS, INC.

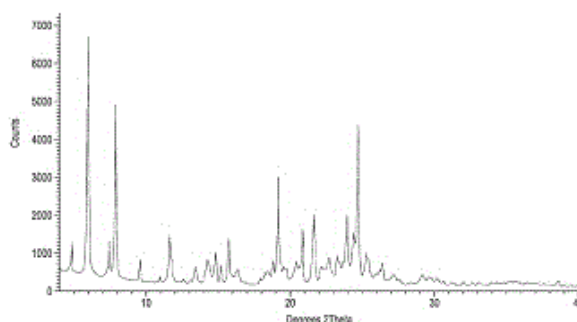
72: QUN LI, WENXUE WU, MATTHEW MANGZHU ZHAO

33: US 31: 63/315,507 32: 2022-03-01

54: SOLID FORMS OF (S)-1-((2',6-BIS(DIFLUOROMETHYL)-[2,4'-BIPYRIDIN]-5-YL)OXY)-2,4-DIMETHYLPENTAN-2-AMINE AND SALTS THEREOF

00: -

Salts of the AAK1 inhibitor (S)-1-((2',6-bis(difluoromethyl)-[2,4'-bipyridin]-5-yl)oxy)-2,4-dimethylpentan-2-amine and solid forms thereof are disclosed, as are pharmaceutical formulations comprising them and methods of their preparation.



21: 2024/06020. 22: 2024/08/05. 43: 2025/09/02

51: A61K; C07D

71: LEXICON PHARMACEUTICALS, INC.

72: TAO CHEN, WENXUE WU, JUN YAN,

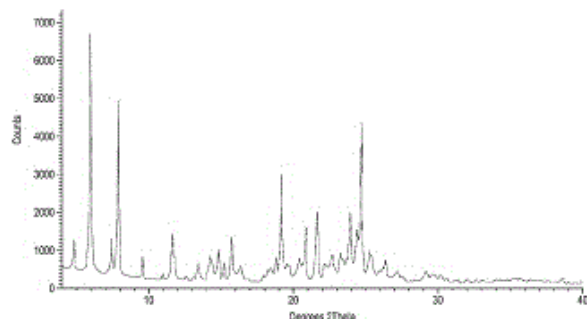
XIANGLU ZENG, MATTHEW MANGZHU ZHAO

33: US 31: 63/315,504 32: 2022-03-01

54: METHODS AND COMPOUNDS USEFUL IN THE SYNTHESIS OF AN AAK1 INHIBITOR

00: -

Methods for the synthesis of (S)-1-((2',6-bis(difluoromethyl)-[2,4'-bipyridin]-5-yl)oxy)-2,4-dimethylpentan-2-amine and salts thereof are disclosed, as well as compounds useful therein.



21: 2024/06021. 22: 2024/08/05. 43: 2025/09/02
51: A01N; C11D; A01P
71: UNILEVER GLOBAL IP LIMITED
72: SAMIRAN MAHAPATRA, SRILAXMI VENKATA MEDEPALLI, NAMISHA MOHAPATRA, SANDEEP VARMA
33: EP 31: 22162242.6 32: 2022-03-15
54: AN ANTIFUNGAL COMPOSITION
00: -

The present invention relates to an antifungal composition. It particularly relates to such a composition for cleaning inanimate surfaces like those on clothes, kitchens, bathrooms, toilets and other surfaces in homes, offices and other public places. This is achieved through using a composition on such surfaces which comprises an alkyl substituted dihydroxy benzene compound and a conazole compound. Efficacy is enhanced when a zinc salt is additionally included.

21: 2024/06042. 22: 2024/08/06. 43: 2025/11/07
51: B65D
71: ALPLA WERKE ALWIN LEHNER GMBH & CO. KG
72: Franz-Michael LÄSSER, Werner STEURER, Peter WINGHART
33: CH 31: 000048/2022 32: 2022-01-14
54: CLOSURE CAP
00: -

The invention relates to a closure cap (11) for closing the pour opening of a container, comprising: a cylindrical threaded part (15) having an open edge (25), a first cylindrical casing (23), and an internal thread formed on the inside of the casing (23) which

can cooperate with an external thread of a spout delimiting the pour opening, a security ring (17) designed to be retained on a projection molded onto the spout, and a plurality of security webs (63) releasably connecting the security ring (17) to the open edge (25). A web section (69) has a greater thickness than the remaining security ring (17). A first or second latching lug (71a, 71b) protrudes at the open edge (25), and a gap (72) is formed between the first and the second latching lugs (71a, 71b), and a holding web (73) is formed on the web section (69) and projects into the gap (72) in the closure position.

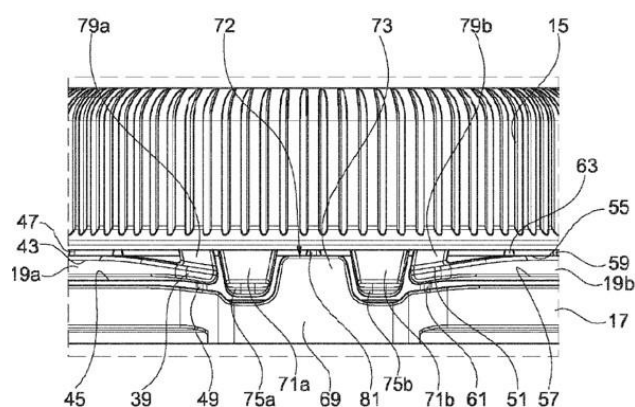
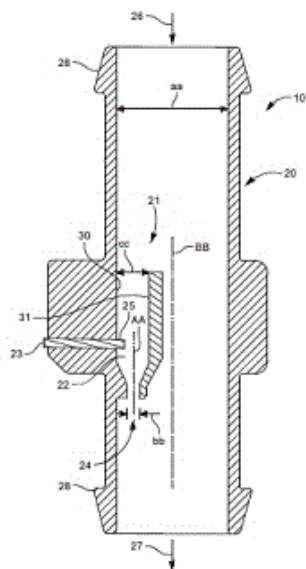


Fig. 3

21: 2024/06051. 22: 2024/08/06. 43: 2025/09/02
51: A01J; G01N
71: BOVONIC LIMITED
72: LIAM GEORGE KAMPSHOF, GARY EDWIN CAMPBELL
33: AU 31: 2022900361 32: 2022-02-18
33: AU 31: 2022902243 32: 2022-08-10
54: IN-LINE SENSOR, MILKING CLUSTER AND ASSOCIATED METHODS
00: -

Described herein is an in-line sensor for sensing properties of a pulsed milk flow on a continuous basis. A milking cluster comprising multiple pulsed milk flow inputs from lactating animal teats and a mixing point or claw for the multiple inputs is described that includes multiple in-line sensors for each pulsed milk flow input. Methods of use of the in-line sensor and milking cluster are also described. The in-line sensor described may be easily integrated into existing milking apparatus, is reliable, has a low cost, and is self-cleaning/self-emptying.



21: 2024/06073. 22: 2024/08/07. 43: 2025/09/02

51: B05B

71: DIAMOND CUT REFINISHING HOLDINGS LIMITED

72: STEVEN JOHN BARRETT

33: GB 31: 2200302.4 32: 2022-01-12

54: A SPRAY BOOTH

00: -

The present invention provides a portable spray booth (1) for coating an item such as a wheel with a sprayable material. The portable spray booth (1) comprises an actuator (12) configured in use to support a spray gun (14) which is in fluid communication with a first supply of the sprayable material. The portable spray booth (1) further comprises at least one laser (20) operative to illuminate a wheel with laser radiation. The portable spray booth (1) further comprises a detector configured in use to detect reflected laser (20) radiation from the wheel to derive a signal indicative of the profile of the wheel. The portable spray booth (1) further comprises a processor configured in use to process the signal to obtain a control signal which is output to the actuator and the spray gun (14) to cause the first supply of sprayable material to be dispensed from the spray gun (14) onto the wheel in a user defined manner and a detector (22) senses an amount of sprayable material in each reusable paint pot or canister and generates a warning signal to reorder a paint pot or cannister before all the sprayable is used.

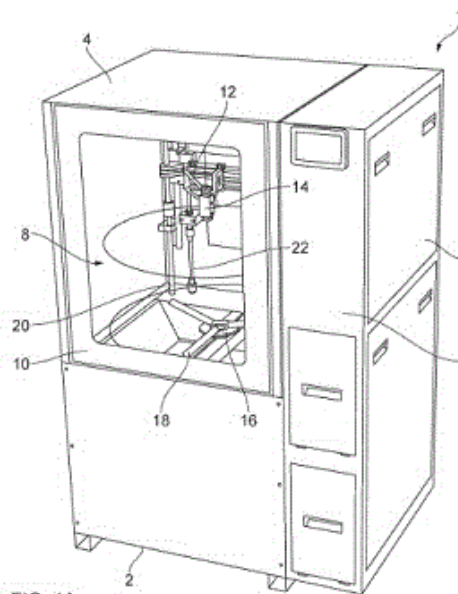


FIG. 1A

21: 2024/06106. 22: 2024/08/08. 43: 2025/09/09

51: C08J; C23C

71: IONKRAFT GMBH

72: JARITZ, Montgomery

33: DE 31: 10 2022 105 041.6 32: 2022-03-03

54: COATING TECHNOLOGY FOR PLASTIC CONTAINERS

00: -

The invention relates to the field of plastic coating by means of plasma-enhanced chemical gas phase deposition (PECVD). The invention makes it possible to coat, in particular, recyclable plastic containers for storing aggressive chemicals with a stable migration barrier. A method and a coating are disclosed. A coating of a process gas mixture of at least one precursor and a reactive gas, which is excited to form a plasma, can be deposited by means of the method. By adjusting the reactive gas proportion in the process gas mixture and by varying the mass-related excitation energy, a gradient layer can be deposited on the plastic substrate in order to produce a chemically resistant migration barrier.

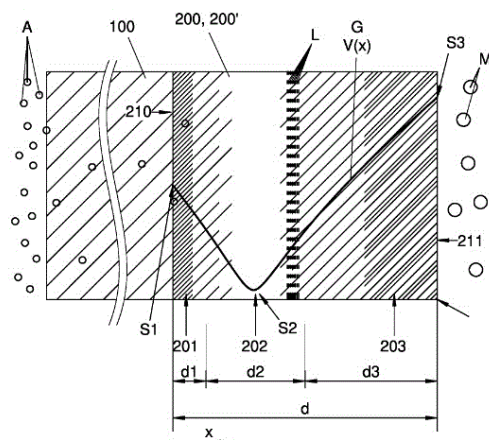
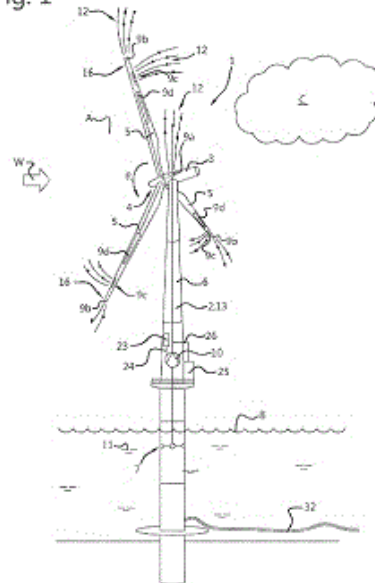


Fig. 1



21: 2024/06116. 22: 2024/08/08. 43: 2025/09/03

51: A01G; F03D

71: STICHTING THE GLOBAL IRRIGATION PROJECT

72: PIETER GERRIT Hannessen

33: NL 31: 2031011 32: 2022-02-18

33: NL 31: 2033594 32: 2022-11-22

54: WIND TURBINE AND A WIND PARK COMPRISING SUCH A WIND TURBINE

00: -

The present invention relates to a wind turbine, comprising: - a foundation supporting a nacelle; - a rotor that is rotatable relative to the nacelle and that comprises a plurality of rotor blades; - a fluid connection configured to connect a water intake to one or more than one output arranged above sea level; and - a pump configured to pump seawater from the water intake to the one or more than one output to thereby eject seawater containing salt particles into ambient air surrounding the wind turbine to stimulate cloud formation. The invention further relates to a wind park, comprising a plurality of wind turbines and comprising one or more than one wind turbine according to the invention.

21: 2024/06117. 22: 2024/08/08. 43: 2025/09/03

51: C10J

71: COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH

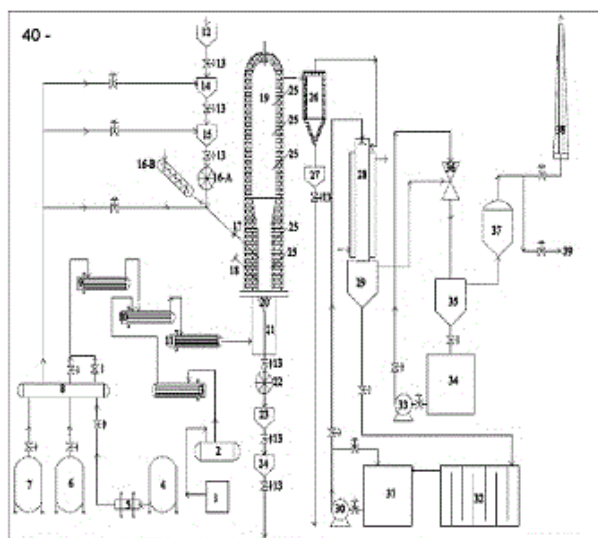
72: PRAKASH DHONDIRAM CHAVAN, SUJAN SAHA, NILESH D DHAIGUDE, VISHAL CHAUHAN, GAJANAN SAHU, SUDIPTA DATTA, PRADEEP KUMAR SINGH

33: IN 31: 202211006577 32: 2022-02-07

54: AN OXYGEN ENRICHED AIR BLOWN PILOT SCALE PRESSURIZED FLUIDIZED BED REFRACTORY LINED GASIFIER

00: -

The present invention discloses oxygen enriched air blown pressurized fluidized bed pilot scale refractory lined gasifier of 1.5 TPD feed capacity to gasify coal, biomass, washery rejects, and their blends in any proportion in the actual atmosphere of commercial gasifier. The system is equipped in such a way that it can be operated in air/ oxygen/oxygen enriched air/ steam as well as their mixture in any proportion as per process requirement. The present invention discloses gasifier having feed rate carrying capacity up to 60 kg/hour, maximum operating temperature up to 1050°C and pressure up to 10 kg/cm². The facility consists different sections for gaseous and solid feeding, gasification, ash withdrawal, and gas Cooling & Cleaning. Besides gasification performance analysis, present invention is also discloses the study of agglomeration characteristics, entrainment and other fluidized bed gasification related parameters.



21: 2024/06125. 22: 2024/08/08. 43: 2025/09/03
51: C01B; C10G

71: Johnson Matthey Davy Technologies Limited
72: ALLAN, Stuart William, COE, Andrew James,
FOSTER (Deceased), Craig, JIANG, Cuijie,
NIJEMEISLAND, Michiel

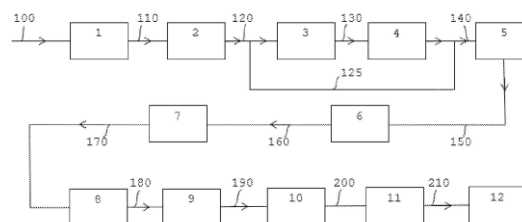
33: GB 31: 2204766.6 32: 2022-04-01

54: METHOD OF PRODUCING LIQUID HYDROCARBONS FROM A SYNGAS

00: -

A method of producing liquid hydrocarbons from a syngas, the method comprising: providing a hydrogen-cyanide-containing syngas; dividing the hydrogen-cyanide-containing syngas into a first syngas portion and a second syngas portion; passing a mixture of the first syngas portion and steam through a water-gas-shift reaction chamber to provide a hydrogen-enriched first syngas portion; combining the hydrogen-enriched first syngas portion with the second syngas portion to provide a combined syngas; passing the combined syngas through a first hydrolysis reaction chamber to convert at least a portion of the hydrogen cyanide in the combined syngas to ammonia to provide a first ammonia-enriched, hydrogen-cyanide-depleted syngas; passing the first ammonia-enriched, hydrogen-cyanide-depleted syngas to a first scrubber and contacting the first ammonia-enriched, hydrogen-cyanide-depleted syngas with a first scrubbing liquid, whereby at least a portion of the ammonia contained in the first ammonia-enriched,

hydrogen-cyanide-depleted syngas is retained in the first scrubbing liquid to form a first ammonia-depleted, hydrogen-cyanide-depleted syngas; passing the first ammonia-depleted, hydrogen-cyanide-depleted syngas through a carbon-dioxide-removal unit to form a carbon-dioxide-depleted syngas; passing the carbon-dioxide-depleted syngas to a second hydrolysis reaction chamber to convert at least a portion of the hydrogen cyanide in the carbon-dioxide-depleted syngas to ammonia to provide a second ammonia-enriched, hydrogen-cyanide-depleted syngas; passing the second ammonia-enriched, hydrogen-cyanide-depleted syngas to a second scrubber and contacting the second ammonia-enriched, hydrogen-cyanide-depleted syngas with a second scrubbing liquid, whereby at least a portion of ammonia contained in the second ammonia-enriched, hydrogen-cyanide-depleted syngas is retained in the second scrubbing liquid to form a second ammonia-depleted, hydrogen-cyanide-depleted syngas; and passing the second ammonia-depleted, hydrogen-cyanide-depleted syngas through a Fischer-Tropsch reaction chamber to produce a liquid hydrocarbon product.



21: 2024/06162. 22: 2024/08/12. 43: 2025/09/03
51: G01D

71: MINESENSE TECHNOLOGIES LTD.
72: DANIEL THOMSSON, MANIKARAN SINGH,
DIVYESH RANA

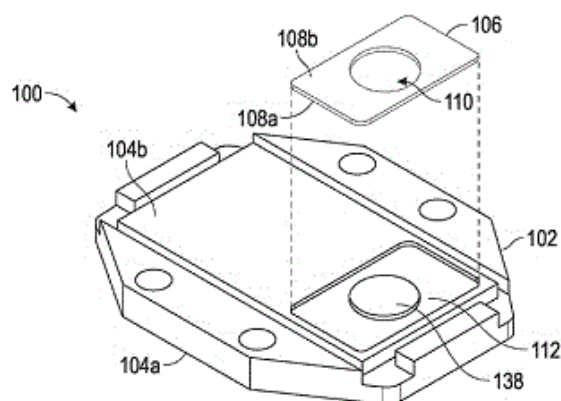
33: US 31: 63/305,874 32: 2022-02-02

54: RUGGEDIZED SENSOR DEVICES WITH DECREASED LIGHT SCATTER AND ASSOCIATED SYSTEMS AND METHODS

00: -

Ruggedized sensor devices with decreased light scatter and associated methods and systems are disclosed herein. In some embodiments, a ruggedized sensor window apparatus includes a protective window and a light scatter blocking component positioned between the protective window and an optical sensor. The protective

window is configured to intersect an optical path of a transmission component and a receiver component of the optical sensor. The light scatter blocking component is opaque and has a low reflection coefficient to block light scattering from a sender beam of the optical sensor from reaching the receiver component. The light scatter blocking component has an aperture extending completely through from a first side to a second side opposite the first side. The aperture is configured to be positioned over the transmission component of the optical sensor to allow transmission of the sender beam to pass therethrough.



21: 2024/06163. 22: 2024/08/12. 43: 2025/09/03
51: H02P

71: TMEIC CORPORATION
72: SHUZO IKEDA

54: MOTOR DRIVING SYSTEM AND CONTROL METHOD FOR INVERTER DEVICE

00: -

A motor driving system according to an embodiment comprises a converter device and an inverter device. The converter device converts a first AC voltage into a DC voltage. The inverter device converts the DC voltage into a second AC voltage and outputs the second AC voltage to a motor. The converter device causes the DC voltage to follow a DC voltage command value. The inverter device causes the speed of the motor to follow a speed command value. The inverter device corrects the speed command value on the basis of the DC voltage command value and the DC voltage. The inverter device applies the corrected speed command value to control the motor.

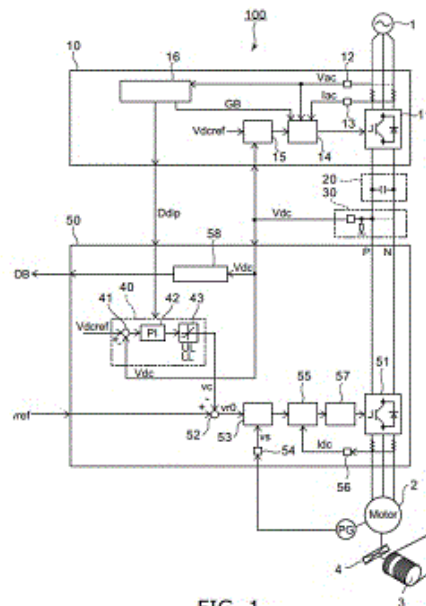


FIG. 1

21: 2024/06166. 22: 2024/08/12. 43: 2025/09/03

51: B22D

71: WAGSTAFF, INC.

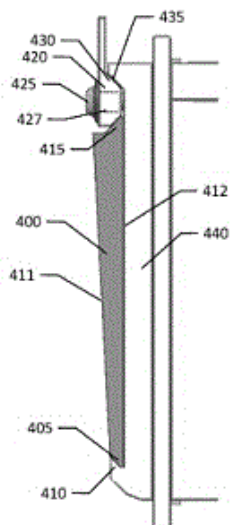
72: CRAIG CORDILL, NICHOLAS SHABER

33: US 31: 17/651,708 32: 2022-02-18

54: MOLD CASTING SURFACE COOLING

00: -

The present invention relates to a method, system, and apparatus for improving the efficiency of a continuous casting operation. A continuous casting mold component described herein includes: a mold wall substrate defining a groove proximate a bottom of the mold wall substrate; a graphite liner having a bottom edge defining a first angled surface and a top edge defining a second angled surface, where the bottom edge is received into the groove of the mold wall substrate; and a clamping element defining an angled clamping surface attached to the mold wall substrate with at least one fastener, where the bottom angled surface of the graphite liner is driven into the groove defined in the substrate in response to the angled clamping surface of the clamping element engaging the second angled surface of the graphite liner and the fastener pressing the clamping element toward the mold wall substrate.



21: 2024/06167. 22: 2024/08/12. 43: 2025/09/03

51: C01G; C22B

71: UMICORE

72: BART KLAASEN, MARJON WILLEKENS

33: EP 31: 22159893.1 32: 2022-03-03

54: CONTINUOUS PROCESS FOR THE
OXIDATIVE LEACHING OF NICKEL

00: -

The present invention provides a process for the preparation of a nickel sulphate solution in a column reactor, whereby metal particles containing nickel are reacted with an oxidative leach solution comprising sulphuric acid and hydrogen peroxide in water and whereby the acid in the oxidative leaching solution is substantially depleted.

21: 2024/06204. 22: 2024/08/13. 43: 2025/09/03

51: A01N; C07D; A01P

71: SUMITOMO CHEMICAL COMPANY, LIMITED

72: CHIEMI IWATA, SHUHEI AZUMA, HIROTO

OBATA

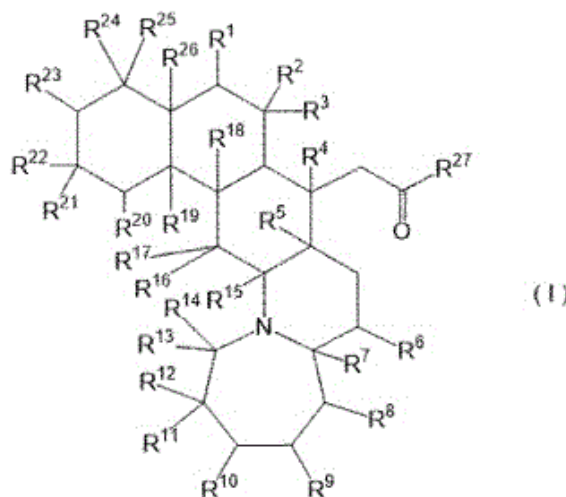
33: JP 31: 2022-032312 32: 2022-03-03

33: JP 31: 2022-133984 32: 2022-08-25

54: METHOD FOR CONTROLLING HARMFUL ARTHROPODS OR HARMFUL NEMATODES USING ZOANTHAMINE ANALOG

00: -

The present invention provides a method for controlling harmful arthropods or harmful nematodes. Compounds represented by formula (I) [in the formula, R¹ represents a hydrogen atom, etc., R² represents OR⁴⁰, R³, R⁴, R⁴, R⁵, R⁶, and R²⁶ represent hydrogen atoms, R⁴ represents a methyl group, etc., R² represents a methyl group, etc., R⁴ represents a hydrogen atom, etc., R⁴ represents a hydrogen atom, etc., R⁴ represents a methyl group, etc., R⁵ represents a hydrogen atom, etc., R⁶ represents a hydrogen atom, etc., R¹¹ represents OR⁴⁰, R¹² represents a hydrogen atom, etc., R¹³ represents a hydrogen atom, etc., R⁶ represents a hydrogen atom, etc., R⁸ represents a hydrogen atom, etc., R⁹ represents a methyl group, etc., R²⁰ represents a hydrogen atom, etc., R²¹ represents a methyl group, etc., R²² represents a hydrogen atom, etc., R²³ represents a hydrogen atom, etc., R²⁴ represents a hydrogen atom, etc., R²⁵ represents a hydrogen atom, etc., R²⁷ represents a C1-C3 alkoxy group, etc., and R²⁸ and R⁴⁰ represent hydrogen atoms, etc.], N-oxides thereof, and salts of the same can be used for controlling harmful arthropods or harmful nematodes.



21: 2024/06208, 22: 2024/08/13, 43: 2025/09/03

51: A01H

71: BEJO ZADEN B.V.

72: HUBERTUS THEODORUS MARIA JANSSEN,
MIRANDA RUITER, JOHANNES GERARDUS
MARIA HOOGLAND, JOHANNES THEODORUS
WILHELMUS LIGTHART, ROELOF MARINUS
VEENSTRA, ALBERTUS JOHANNES MARIA
SCHRIJVER

33: EP 31: PCT/EP2022/055009 32: 2022-02-28

54: BRASSICA OLERACEA PLANTS RESISTANT
TO DIAMONDBACK MOTH

00: -

The present invention relates to Brassica oleracea plants resistant to the plant pest diamondback moth *Plutella xylostella* and, additionally, tolerant to the plant pathogen *Xanthomonas campestris* pv. *campestris*. The present invention further relates to methods for identifying the present plants and nucleic acid sequences allowing characterizing, or identifying, the present plants. Specifically, the present invention relates to Brassica oleracea plants resistant to the diamondback moth *Plutella xylostella*

and the plant pathogen *Xanthomonas campestris* *campestris*, wherein said resistance to the diamondback moth *Plutella xylostella* and said tolerance to the plant pathogen *Xanthomonas campestris* *campestris* are obtainable from a *Brassica oleracea* plant deposited under deposit number NCIMB 43822.

21: 2024/06227. 22: 2024/08/14. 43: 2025/09/03

51: C08J; C08L; C11D

71: DOW SILICONES CORPORATION

72: NAD, Saugata, CREUTZ, Serge, SIMON, Christel

33: US 31: 63/310,668 32: 2022-02-16

54: FREE STANDING FILM

00: -

A free standing film is provide, including: 20 to 100 wt%, based on weight of the free standing film, of an irreversibly crosslinked cellulose ether containing 0.1 to 0.6 wt%, based on weight of the crosslinked cellulose ether, of polyether groups. Unit dose packages including the free standing film are also provided.

21: 2024/06228. 22: 2024/08/14. 43: 2025/09/03

51: F04C

71: CATERPILLAR INC.

72: MORK, David A., ENGLISH, Paul R.

33: US 31: 17/672,906 32: 2022-02-16

54: LOW PRESSURE GEAR PUMP

00: -

A low pressure gear pump (116) and wear plate (120) is disclosed. The wear plate (120) may comprise a sidewall (150), a drive portion (162), a driven portion (164), and a transition portion (166). The sidewall (150) is free of a sealing member or a recess configured to receive the sealing member. The drive portion (162) includes a drive inlet lip (168), a drive outlet lip (170), a drive recessed trough (172) and a drive bore (124). The drive bore (124) is configured to receive the drive shaft (122) of the gear pump. The driven portion (164) may that include a driven inlet lip (188), a driven outlet lip (190), a driven recessed trough (192), and a driven bore (128). The driven bore (128) is configured to receive the driven shaft (126) of the gear pump. The transition portion (166) may include a transition aperture (198) configured to receive a first fastener (134) configured to mount the wear plate (120) to the

gear housing (118). The wear plate (120) is made of bronze, aluminum or non-magnetic material.

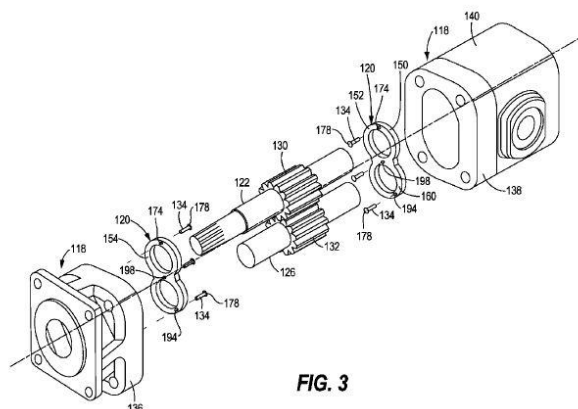


FIG. 3

21: 2024/06321. 22: 2024/08/16. 43: 2025/09/04

51: G06F; G06T

71: InterDigital CE Patent Holdings, SAS

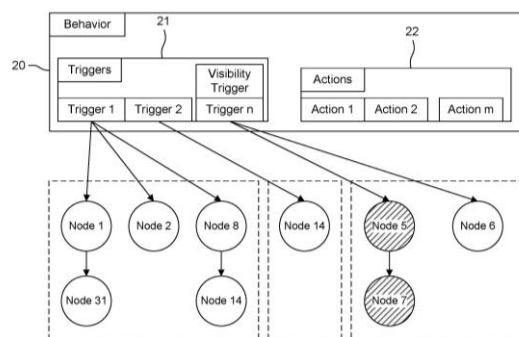
72: JOUET, Pierrick, HIRTZLIN, Patrice, LELIEVRE, Sylvain, FONTAINE, Loic

33: EP 31: 22305197.0 32: 2022-02-23

54: NODE VISIBILITY TRIGGERS IN EXTENDED REALITY SCENE DESCRIPTION

00: -

Methods, device and data stream are provided to adapt the conditions under which the visibility of an object triggers or does not trigger actions in an extended reality application. A visibility trigger is activated when the objects described in the nodes linked to the trigger are visible from the point of view of a given camera. Additional information is set at node level to adapt and specialize criteria of visibility triggers. This information relies on the nature and/or the size of the object geometry and on the nature and/or the size of the other nodes' geometry considered for the visibility estimation of the object.



21: 2024/06367. 22: 2024/08/19. 43: 2025/09/04

71: HEMOLENS DIAGNOSTICS SP. Z.O.O.

54: A METHOD FOR ASSESSMENT OF

00: -

A method, a computer-readable medium and a system for assessment of a hemodynamic response to an Adenosine receptor agonist stimulation for a human patient are disclosed. Starting point for the method are non-invasive pressure data in the resting state. Said data are used in pharmacokinetic/pharmacodynamic modeling to arrive at an individual patient-specific response for an adenosine receptor stimulation by an agonist. This response is used to a calibrate lumped-parameter Windkessel type model of a blood circulation. The calibrated model allows for calculating of hemodynamic parameters for the hyperemic state, in particular to calculate flow and pressure values in both coronary arteries inlets. The hemodynamic parameters allow for in silico coronary vessel diagnostic. The effectiveness of the developed method has been confirmed in multi-center clinical trials.



51: A61K; A61Q

72: MICHAEL BRANDON ALTAMURA, KRISTA

33: US 31: 63/336,374 32: 2022-04-29

54: AERATED COSMETIC COMPOSITION

00: -

51: C07K C12N C12P

72: CHOI, Woosung, JANG, Jaewon, BAEK, Mina.

33: KR 31: 10-2022-0028809 32: 2022-03-07

00: -

51: C07K C12N C12P

72: CHOI, Woosung, JANG, Jaewon, BAEK, Mina.

33: KR 31: 10-2022-0028808 32: 2022-03-07

00: -

51: B65H G07D

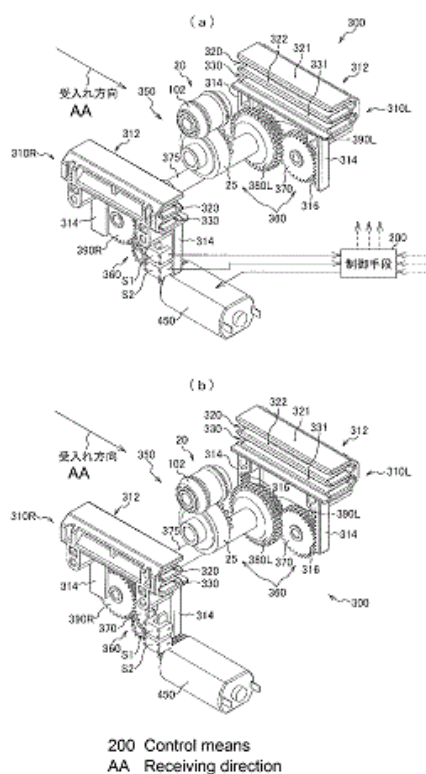
72: HARAGUCHI, Kohei

54: CONVEYANCE GUIDE DRIVE MECHANISM.

00: -

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preventing deformation and damage during continuous and non-intermittent conveyance. The conveyance guide drive mechanism comprises conveyance guides 310 which are disposed facing each other along both widthwise side edges of a conveyance surface 11 to respectively guide both side edges of paper sheets being conveyed, an advancing/retracting mechanism 350 that synchronously moves each of the conveyance guides to protrude and retract in a predetermined direction, stoppers 440 which respectively define protruding positions where each of the conveyance guides 310 protrudes most from the conveyance surface 11 and retracted positions where each of the conveyance guides 310 is retracted toward the conveyance surface side from the protruding positions, and a DC motor 450 that drives the advancing/retracting mechanism 350.

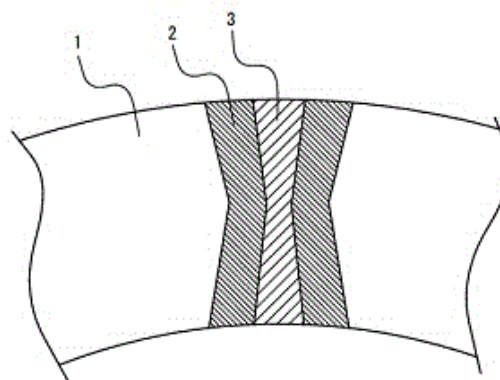


21: 2024/06415. 22: 2024/08/21. 43: 2025/09/04
51: B21C; C21D; C22C
71: JFE STEEL CORPORATION
72: AKIHIDE MATSUMOTO, SHINSUKE IDE,
ATSUSHI MATSUMOTO, RYO NAKAZAWA
33: JP 31: 2022-073730 32: 2022-04-27

54: ELECTRIC RESISTANCE WELDED STEEL PIPE OR TUBE AND PRODUCTION METHOD THEREFOR

00: -

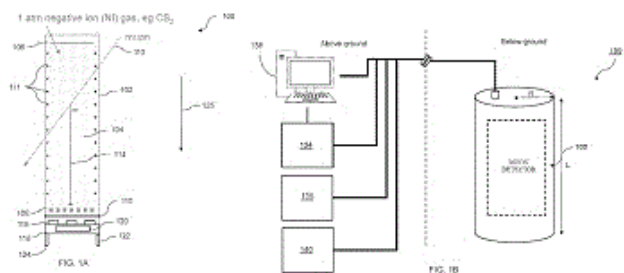
Provided is an electric resistance welded steel pipe or tube that has high strength and excellent workability and toughness and is suitable as a machine structural steel pipe or tube used in parts of automobiles, construction machinery, and industrial machinery. An electric resistance welded steel pipe or tube comprises a predetermined chemical composition, wherein a steel microstructure at a wall thickness center of a base metal portion has a volume ratio of martensite of 90 % or more, with a balance containing one or more selected from ferrite, bainite, pearlite, and austenite, an average crystal grain size of 10 μm or less, and a volume ratio of prior austenite with a grain size of 50 μm or more of 40 % or less.



21: 2024/06416. 22: 2024/08/21. 43: 2025/09/04
51: G01N; G01V
71: KOBOLD METALS COMPANY
72: JEAN-LUC GAUVREAU, DANIEL SNOWDEN-
IFFT, JESSICA KIRKPATRICK
33: US 31: 17/673,567 32: 2022-02-16
54: MUON DETECTOR FOR MUON TOMOGRAPHY

00: -

A muon detector includes: a chamber having a maximum cross-sectional dimension of 30 cm or less; a gas sealed inside the chamber ionized by the passage of atmospheric muons to form ions in the chamber; a cathode in the chamber at a first position; an anode in the chamber displaced from the first position, the anode including a mesh of wires; a micropattern gaseous detector arranged between the cathode and the anode and proximate to the anode and configured to receive the ions formed in the chamber between the anode and the cathode and generate electrons in response to each ion sufficient to generate a current in one or more of the mesh wires of the anode; and readout electronics in electrical communication with the anode to detect signals in response to the current generated in the mesh wires.



21: 2024/06417. 22: 2024/08/21. 43: 2025/09/04
 51: C04B; C10C; C25C; H01M; H05B
 71: RAIN CARBON BV, RAIN CARBON GERMANY GMBH
 72: MICHAEL SPAHR, CHRISTOPHER KUHN, JORIS CLAES, BRAM DENOO
 33: EP 31: 22152942.3 32: 2022-01-24
54: IMPROVED THERMOPLASTIC CARBON PRECURSOR MATERIAL FOR APPLICATION IN COATING, BINDING, AND IMPREGNATION PROCESSES FOR THE MANUFACTURING OF ELECTRODES FOR STEEL AND ALUMINUM PRODUCTION AND BATTERIES
 00: -

The present invention is directed to a carbon precursor material characterized by a flashpoint above 290°C and a softening point between 110 and 300°C Mettler and comprising petroleum-derived pitch product derived from a petroleum-based raw material having a concentration of less than 40% by weight of asphaltene as measured by SARA analysis. Further, the present invention is directed to the use of such carbon precursor material in binding/coating/impregnation processes in the production of graphite electrodes for electric arc furnaces used in steel/ferro- alloy/silicon production or in carbon electrodes for aluminum production and/or manufacture of graphite particles for the manufacturing of battery electrodes. The present invention is further directed to a carbon or graphite electrode comprising said pitch binder in converted state, and in particular a battery electrode. The present invention provides also a process for producing a coating and/or binding and/or impregnation carbon precursor material comprising a petroleum- derived pitch product, the process comprising the steps of providing petroleum-based raw material having a concentration of less than 40% by weight of asphaltene measured by SARA analysis, thermally treating said petroleum-based raw material above 300°C at atmospheric pressure, and subsequently distill the thermally treated material, thereby obtaining a distillation residue being said petroleum-derived pitch product.

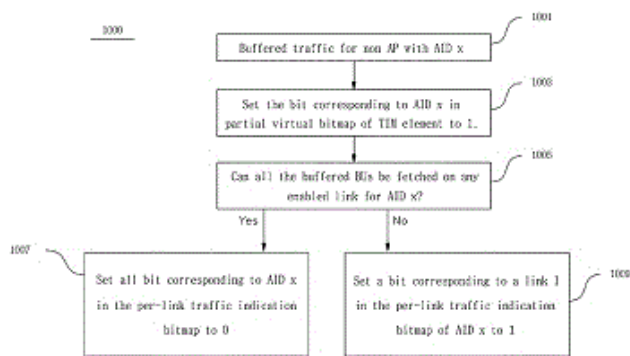
21: 2024/06418. 22: 2024/08/21. 43: 2025/09/04
 51: A61K; A61P
 71: SULFATEQ B.V.
 72: ROBERT HENK HENNING, GUIDO KRENNING, ADRIANUS CORNELIS VAN DER GRAAF, DANIËL HENRI SWART
 33: NL 31: 2031091 32: 2022-02-28
54: CHROMANOL COMPOUNDS FOR TREATMENT OR PROPHYLAXIS OF AGEING- ASSOCIATED DISORDERS
 00: -

The invention relates to certain chromanol, quinone or hydroquinone compounds and derivatives thereof for treatment or prophylaxis of aging, or idiopathic ageing-associated disorders such as vascular ageing or reduced renal function. Specifically, the present invention relates to chromanol compounds

chosen from 6-hydroxy-2,5,7,8-5 tetramethylchroman-2-yl)(piperazin-1-yl)methanone (SUL-121), ((S)-6-hydroxy-2,5,7,8-tetramethyl-N-((R)-piperidin-3-yl)chroman-2-carboxamide hydrochloride (SUL-13), 6-hydroxy-2,5,7,8-tetramethylchroman-2-yl)(4-(2-hydroxyethyl)piperazin-1-yl)methanone (SUL-109), or its enantiomers and pharmaceutically acceptable salts thereof.

21: 2024/06464. 22: 2024/08/22. 43: 2025/09/04
 51: H04W
 71: SAMSUNG ELECTRONICS CO., LTD.
 72: VISHNU VARDHAN RATNAM, PESHAL NAYAK, BOON LOONG NG, RUBAYET SHAFIN
 33: US 31: 63/357,996 32: 2022-07-01
 33: US 31: 63/388,547 32: 2022-07-12
 33: US 31: 63/398,771 32: 2022-08-17
 33: US 31: 18/338,250 32: 2023-06-20
54: MULTI-LINK TRAFFIC INDICATION FOR MULTI-LINK DEVICE
 00: -

A wireless communication network includes an access point (AP) multi-link device (MLD) and a non-AP MLD. The AP MLD generates a traffic indication map (TIM) element that indicates pending buffered traffic for a plurality of non-AP MLDs associated with the AP MLD and selectively generate a multi-link traffic indication element that includes per-link traffic indication to retrieve buffered traffic for at least one non-AP MLD, based on determining whether all of the plurality of non-AP MLDs have default traffic identifier (TID)-to-link mapping and whether the AP MLD has buffered traffic with TIDs that are not mapped to all enabled links for the at least one non-AP MLD. The AP MLD transmits the beacon frame including the TIM element and the optional multi-link traffic indication element to the plurality of non-AP MLDs.



21: 2024/06507. 22: 2024/08/23. 43: 2025/09/03
 51: A61K; A61Q
 71: UNILEVER GLOBAL IP LIMITED
 72: SAMEER KESHAV BARNE, MAYA TREESA SAJI
 33: EP 31: 22162395.2 32: 2022-03-16
54: A CLEANSING COMPOSITION
 00: -

The present invention relates to a cleansing composition. Particularly, the present invention relates to a cleansing composition that provides superior antimicrobial e.g. antibacterial, effect in consumer relevant contact time of e.g. less than 5 minutes e.g. 10 to 30 sec as well as required viscosity.

21: 2024/06539. 22: 2024/08/26. 43: 2025/09/03
 51: G06N; G06Q
 71: CATERPILLAR INC.
 72: WULF, Stefan Jacob, LANE, Cameron T, YUN, Andrew Seungyul, DAVIS, Greg, DOHERTY, Thomas Frank, COLLINS, Darryl
 33: US 31: 17/652,926 32: 2022-02-28
54: SYSTEMS AND METHODS FOR MANAGING ASSIGNMENTS OF TASKS FOR MINING EQUIPMENT USING MACHINE LEARNING
 00: -

Systems and methods are disclosed for managing task assignments (214) for a fleet of haul trucks (108) at a mine site (100). An assignment engine (220) may: receive state data (226) for a haul truck (108) including haul weight data and second state data (236) for the mine site (100) that is indicative of a plurality of available tasks and associated task material weight data; assign a task to the haul truck (108) by inputting the state data into a trained reinforcement-learning model (228), wherein: the model (228) has been trained to learn an assignment policy (230) that optimizes a reward

function (232), such that the learned policy (230) accounts for vehicle performance variance due to changing vehicle haul weight and/or road conditions; and cause the at least one haul truck (108) to be operated according to the at least one task assignment (214).

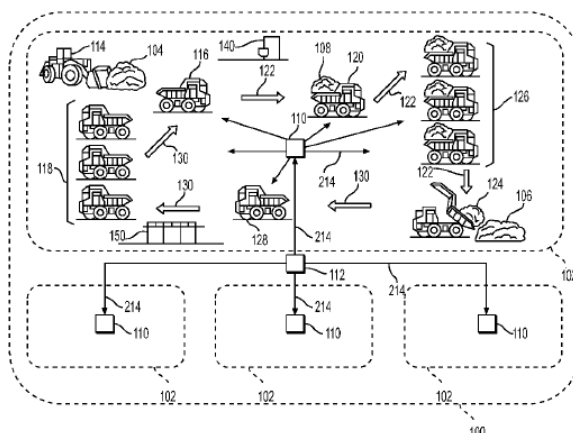
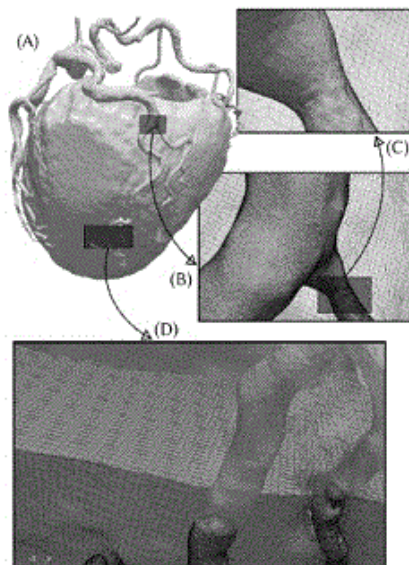
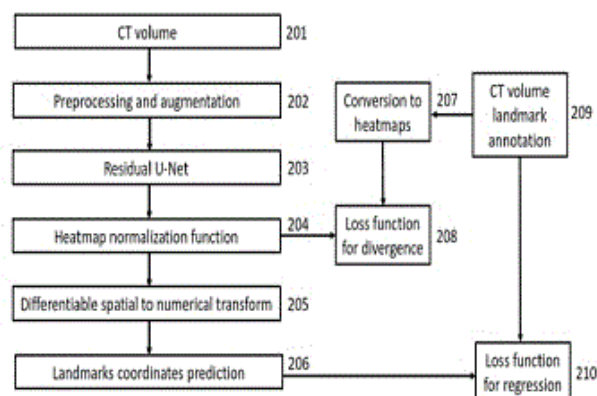


FIG. 1

21: 2024/06547. 22: 2024/08/26. 43: 2025/09/03
 51: G06T
 71: HEMOLENS DIAGNOSTICS SPÓŁKA Z OGRANICZONĄ ODPOWIEDZIALNOŚCIĄ
 72: TOMASZ KONOPCZYNSKI, PATRYK RYGIEL, MIŁOŚZ GAJOWCZYK, PIOTR GRÓDEK, LUKASZ MOROZ, BARTŁOMIEJ CUPIAŁ
54: A METHOD OF DETECTION OF A LANDMARK IN A VOLUME OF MEDICAL IMAGES
 00: -

Detection of landmarks in volumes of medical images is an important step in developing various diagnostic procedures. The invention pertains to a method detection of a landmark in a volume of medical images. Said volume of medical images can be selected from a computational tomography volume or a magnetic resonance volume. The invention includes a residual U-Net architecture to produce a heatmap that describes probability of finding the landmark which can be combined with a 3D Differentiable Spatial to Numerical Transform (DSNT) in order to obtain coordinates of the landmark. The invention was evaluated on two datasets: dataset containing 157 Coronary Computed Tomography Angiography (CCTA) scans and a dataset containing 77 Computed Tomography Angiography (CTA) scans. The proposed method provides a significantly improve accuracy of

landmark detection, especially for ostium landmark detection, when compared to known methods.



21: 2024/06550. 22: 2024/08/26. 43: 2025/09/03

51: A61B; G16H

71: HEMOLENS DIAGNOSTICS SPÓLKA Z
OGRANICZONA ODPOWIEDZIALNOSCIA

72: KRYSPIN MIROTA

54: ASSESSMENT OF MYOCARDIAL PERFUSION USING NON-INVASIVE MEASUREMENTS AND POROMECHANICS

00: -

The invention provides a method for describing flow dynamics in a tissue or organ using a numerical model of blood flow. In one aspect, the invention pertains to a method for assessment of myocardial perfusion using a non-invasive measurement and poromechanics, involving computational fluid dynamics, for a human patient. The method can be realized as a computer-implemented invention. The method comprises generating an anatomical geometry model of a myocardium connected with a plurality of coronary vessels using patient-specific anatomical structure data obtained from said non-invasive measurement. The anatomical geometry model is a composition of fluid and porous domains with their boundaries. The invention cures insufficiencies of the known in vivo methods, including all the risks related to invasive procedures. Moreover, a practically unlimited spatial-temporal resolution is achieved, the result of the invention is completely free of motion artifacts and the patient exposure to radiation is limited.

21: 2024/06552. 22: 2024/08/26. 43: 2025/09/03

51: A61K

71: SPAGO NANOMEDICAL AB

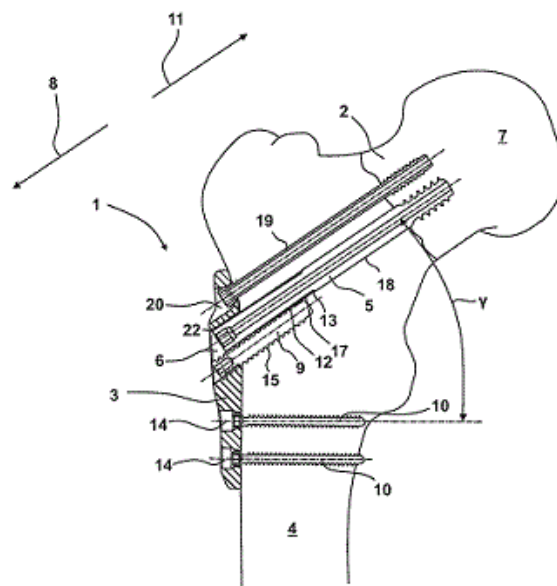
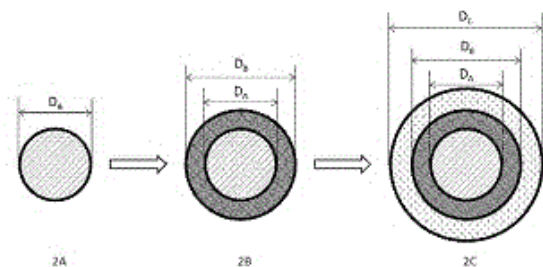
72: OSKAR AXELSSON, ERIK EKENGARD, YI-CHI
LIU, RIKARD LARSSON, SANIA BÄCKSTRÖM

33: EP 31: 22160908.4 32: 2022-03-08

54: GLOBULAR NANOSTRUCTURES

00: -

The present disclosure relates to a plurality of nanostructures having an average hydrodynamic diameter between 20 to 50 nm, wherein each nanostructure is a polymeric nanostructure comprising a central part, an anchoring layer surrounding the central part and a coating layer surrounding the anchoring layer. The present disclosure also relates to such a plurality of nanostructures for use as a medicament, especially for use in the treatment of cancer and/or imaging, as well as the use such nanostructures as carriers of radionuclides. The present disclosure also relates to a method for radiolabeling such nanostructures with a multivalent cationic radionuclide and to a kit.



21: 2024/06642. 22: 2024/08/28. 43: 2025/09/17

51: A61B

71: I.T.S. GMBH

72: BÜHREN, Volker, PRAGER, Ronald

33: AT 31: A 50051/2022 32: 2022-02-01

54: DEVICE FOR TREATING A FRACTURE

00: -

The invention relates to a device (1) for treating a fracture, in particular a fracture of a proximal femur such as, for example, a femoral neck fracture, having a plate (3) for attaching to a thigh bone, one or more intraosseous screws (10) by means of which the plate (3), through intraosseous screw openings (14), can be fixed to a thigh shaft (4), a coupling device, in particular a bone screw (5), which is arranged proximally to the at least one intraosseous screw (10) and by means of which the plate (3) can be connected at a coupling device opening (6) through the thigh shaft (4) and a thigh neck (2) to a thigh head (7), wherein the coupling device is connected to the plate (3) with play (21) such that the coupling device can be moved in the lateral direction (8) relative to the plate (3). In order to achieve a particularly precise and simultaneous adjustability of the play (21), according to the invention an adjusting device is provided which is connected to the plate (3), which can be positioned at different positions relative to the plate (3) and by means of which the play (21) can be adjusted.

21: 2024/06650. 22: 2024/08/28. 43: 2025/09/03

51: B01D; B01J; F01N; G16H

71: CATALER CORPORATION

72: KEITA YAMAMOTO, SUGURU MATSUI, ETSUKO OHARA

33: JP 31: 2022-031196 32: 2022-03-01

54: METHOD FOR PRODUCING EXHAUST GAS PURIFICATION CATALYST

00: -

The method includes: preparing a base material having a wall flow structure, including a first cell with an opening only at a first end, a second cell with an opening only at a second end, and a porous partition partitioning the first cell and the second cell; supplying a catalyst layer forming material to the first end and applying the catalyst layer forming material to an inside of the partition from the first end up to a predetermined length along the extension direction of the partition such that an uncoated portion where the second end is not coated with the catalyst layer forming material in a range facing the first cell of the partition in the extension direction of the partition is formed, and ventilating from the second end and drying the applied catalyst layer forming material.

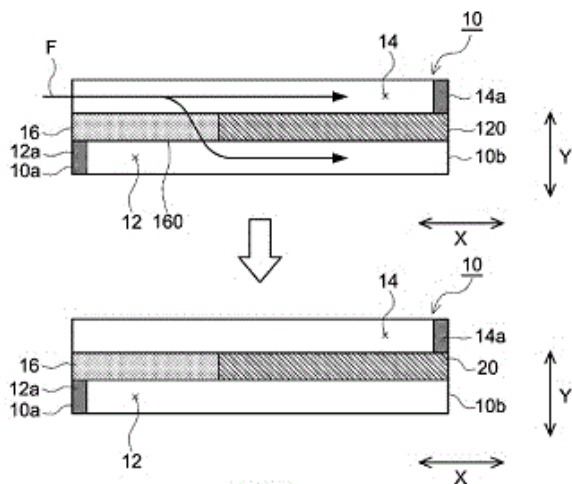


FIG. 5

21: 2024/06653. 22: 2024/08/28. 43: 2025/09/03

51: A01N: A61K: C07D: A61P: A01P

71: ISHIHARA SANGYO KAISHA, LTD.

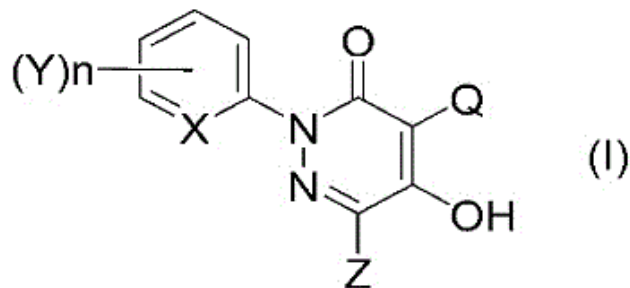
72: KAZUHISA KIRIYAMA, YUTA TAZAWA,
TATSUYA JUKUROGI, SHOTA KAWAKAMI,
TADAHIRO YOSHIMURA, KATSUYA ISHIHARA,
AYAKA TORII, RYUSUKE DOI

33: JP 31: 2022-056258 32: 2022-03-30

54: PYRIDAZINONE COMPOUND OR SALT THEREOF AND PEST CONTROL AGENT CONTAINING IT

00: -

Many pest control agents have been used over a period of time, however, quite a few of them have various problems such that their effects are insufficient, and that pests have acquired resistance and their use is restricted. Accordingly, development of a novel pest control agent with few such defects has been desired. A pyridazinone compound represented by the formula (I) or a salt thereof, wherein the symbols are as defined in the specification, a pest control agent comprising the compound, and a method for controlling pests by applying the compound.



21: 2024/06677. 22: 2024/08/29. 43: 2025/09/03

51: H04N

71: BEIJING DAJIA INTERNET INFORMATION
TECHNOLOGY CO., LTD.

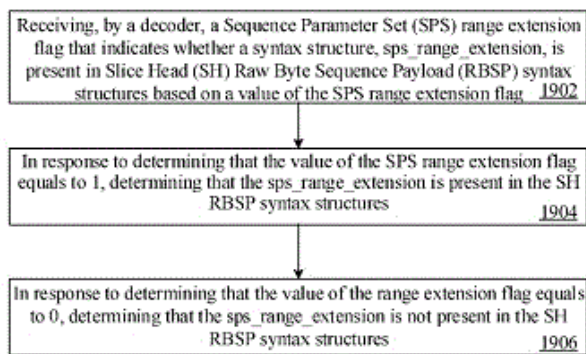
72: HONG-JHENG JHU, XIAOYU XIU, YI-WEN CHEN, WEI CHEN, CHE-WEI KUO, XIANGLIN WANG, BING YU

33: US 31: 63/145,964 32: 2021-02-04

54: RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING

00: -

Methods, apparatuses, and non-transitory computer-readable storage mediums are provided for video coding. The method for video coding includes: receiving, by a decoder, a Sequence Parameter Set (SPS) range extension flag that indicates whether a syntax structure, `sps_range_extension`, is present in Slice Head (SH) Raw Byte Sequence Payload (RBSP) syntax structures based on a value of the SPS range extension flag.



21: 2024/06688. 22: 2024/08/29. 43: 2025/09/03

51: E02F

71: CATERPILLAR INC.

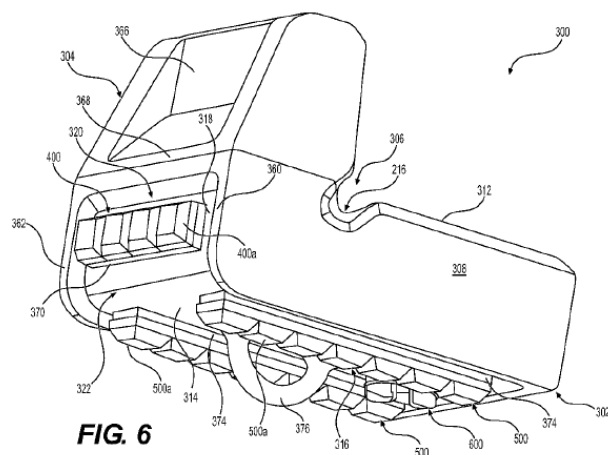
72: KARUNAKARAN, Ezhil Valavan, MCCAFFREY,
Brandon Hammig

33: US 31: 17/690,431 32: 2022-03-09

54: CONSTRUCTION MACHINE HEEL SHROUD HAVING STRESS CONCENTRATION REDUCTION GEOMETRY AND ENHANCED DURABILITY

00: -

A heel shroud (200, 300) includes a bottom leg (202, 302), and a side leg (204, 304) extending orthogonally from the bottom leg (202, 302), forming an interior corner (206, 306) with the bottom leg (202, 302). The heel shroud (200, 300) defines a first lateral surface (208, 308), a second lateral surface (208, 308), and the bottom leg (202, 302) includes a curved interior surface (212, 312) extending from the first lateral surface (208, 308) to the second lateral surface (208, 308) at least partially forming the interior corner (206, 306). The first lateral surface (208, 308) defines a stress reduction geometry (216) positioned at the interior corner (206, 306), or includes a wear member (400, 500, 600) that is attached to the side leg (204, 304), or the bottom leg (202, 302).

**FIG. 6**

21: 2024/06693. 22: 2024/08/29. 43: 2025/09/03

51: A01L; B68B

71: CHRISTOPH FRANZIUS, ANNA LENA DUVENECK

72: CHRISTOPH FRANZIUS, ANNA LENA DUVENECK

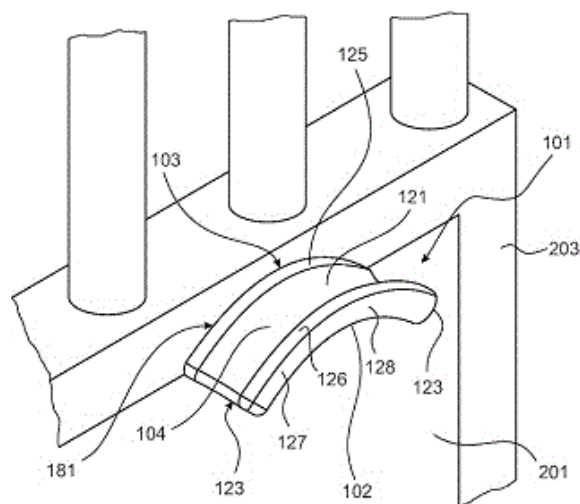
33: DE 31: 20 2022101 171.0 32: 2022-03-03

54: DEVICE FOR SUSPENDING A BRIDLE AND USE OF A DEVICE

00: -

The invention relates to a device for suspending a bridle, in particular a snaffle holder and/or a halter holder, having at least one base body, wherein the base body has at least one wall contact section, a support section and an outer surface facing away from the wall contact section, wherein the wall contact section can be mounted on a wall section by means of a fastening means and is associated with

the wall section in an assembled position. The invention further relates to a use of a device of this type.



21: 2024/06695. 22: 2024/08/29. 43: 2025/09/03

51: C04B; B01D; B22C; B22D

71: Foseco International Limited

72: NAGENDRA NAG

33: EP 31: 22161574.3 32: 2022-03-11

33: EP 31: 23156939.3 32: 2023-02-15

54: AN ARTICLE COMPRISING A COMPOSITE COMPRISING GRAPHITE

00: -

Method of forming an article comprising a composite comprising graphite is disclosed. The article is suitable for containing or processing a molten metal such as aluminum. The method comprises forming at least one granulated mixture by mixing at least carbon black, flake graphite, needle coke with at least one resin, wherein the at least one resin has a flow distance, as measured by ISO 8619:2003, from 20 mm to 150 mm. The method further comprises shaping the granulated mixture into a shaped body and firing the shaped body.

21: 2024/07117. 22: 2024/09/17. 43: 2025/09/18

51: G06F; G10L

71: DOLBY INTERNATIONAL AB

72: LARS VILLEMOS, HEIKO PURNHAGEN, PER EKSTRAND

33: US 31: 62/475,619 32: 2017-03-23

54: BACKWARD-COMPATIBLE INTEGRATION OF HARMONIC TRANSPOSER FOR HIGH FREQUENCY RECONSTRUCTION OF AUDIO SIGNALS

00: -

A method for decoding an encoded audio bitstream. The method comprises receiving the encoded audio bitstream, the encoded audio bitstream including audio data representing a lowband portion of an audio signal. The encoded audio bitstream further includes a fill element with an identifier indicating a start of the fill element and fill data after the identifier. The fill data includes an extension payload. The extension payload includes spectral band replication extension data, and the extension payload is identified with a four bit unsigned integer transmitted most significant bit first and having a value of '1101' or '1110'. The identifier is a three bit unsigned integer transmitted most significant bit first and having a value of 0x6. The method further comprises decoding the audio data to generate a decoded lowband audio signal; extracting from the encoded audio bitstream high frequency reconstruction metadata, the high frequency reconstruction metadata including operating parameters for a high frequency reconstruction process that linearly translates a consecutive number of subbands from a lowband portion of the audio signal to a highband portion of the audio signal; filtering the decoded lowband audio signal with an analysis filterbank to generate a filtered lowband audio signal; extracting from the encoded audio bitstream a flag indicating whether either linear translation or harmonic transposition is to be performed on the audio data, wherein the fill data includes the flag; and regenerating a highband portion of the audio signal using the filtered lowband audio signal and the high frequency reconstruction metadata in accordance with the flag. The analysis filterbank includes analysis filters that are modulated versions of a prototype filter.

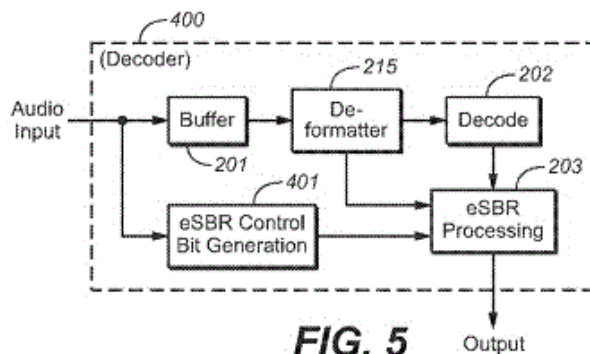


FIG. 5

21: 2024/07453. 22: 2024/09/30. 43: 2025/10/02

51: A61K

71: FERTIS INDIA PVT. LTD.

72: KANUMURU, Rahul Raju, KOCHUMALAYIL, Shaji George, SURANENI, Ravikumar, VANA, Murali Mohanarao, GARUDADHIRI, Prasannakumar Lakshmi

33: IN 31: 202241019382 32: 2022-03-31

54: A NOVEL

NUTRACEUTICAL/THERAPEUTICAL COMPOSITION OF CINNAMIC ACID DERIVATIVES WITH SUCROSE ISOMERS

00: -

The invention discloses Nutraceutical/Therapeutical compositions comprising Cinnamic acid derivatives with sucrose isomers useful as nootropic performance enhancers and also for the pain management. The invention further discloses process for the preparation of the said compositions and methods of use thereof.

21: 2024/07616. 22: 2024/10/08. 43: 2025/11/07

51: B65D

71: ALPLA WERKE ALWIN LEHNER GMBH & CO. KG

72: Denis SCHEIBENSTOCK, Georg SÜSS, Jürgen BICKEL, Peter WINGHART, Franz-Michael LÄSSER, Matthias DANGL

33: CH 31: CH000271/2022 32: 2022-03-14

54: CLOSURE CAP

00: -

The invention relates to a closure cap (11) for closing the pouring opening (33) of a container (13), the cap comprising: a cylindrical threaded part (15) which has an open rim (25), a first cylindrical shell (23), and an internal thread (27), which is formed on the interior of the shell (23) and can interact with an external thread (31) of a container neck (29) delimiting the pouring opening (33); a security ring

(17), which is designed to be held on a projection (35) formed on the container neck. The closure cap (11) also comprises: a first retaining strip (19a) having a first and a second end, wherein the first end (39) is rigidly connected to the open rim (25) of the threaded part (15) and the second end (41) is rigidly connected to the security ring (17); and a second retaining strip (19b), having a third and a fourth end (51, 53), wherein the third end (51) is rigidly connected to the open rim (25) of the threaded part (15) and the fourth end (53) is rigidly connected to the security ring (17). An engaging lug (71) projects from the open rim (25) adjacently to the first and third end (39, 51) and projects into a groove (73) provided in the security ring (17). The threaded part (15) can be folded from a closure position, in which it closes the pouring opening (33), into an open position, in which it fully opens the pouring opening (33), and vice versa. The engaging lug is in the form of a first ramp (71), wherein the height of the first ramp (71) increases in the radial direction starting from the open rim (25). The groove (73) is flanked by second and third ramps (75a, 75b) formed on the security ring (17), the heights of which ramps decrease starting from the groove (73) in the circumferential direction of the security ring (17).

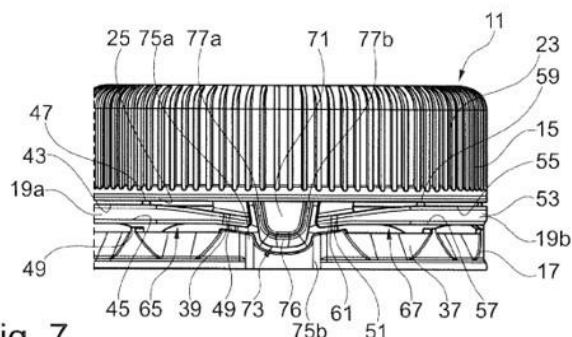


Fig. 7

21: 2024/07710. 22: 2024/10/11. 43: 2025/10/23

51: B23K; B32B; C22C

71: ARCELORMITTAL

72: Frédéric BONNET, Jessy HAOUAS, Valérie DAESCHLER

54: METHOD OF WELDING A STEEL SHEET COMPRISING TiB₂ PRECIPITATES

00: -

A process for welding at least two steel sheets comprising the following successive steps: providing at least one steel sheet having a composition

comprising the following elements, expressed by weight percent: 0.01% = C = 0.2%, 2.5% = Ti = 10 %, $(0.45 \times \text{Ti}) - 1.35\% = \text{B} = (0.45 \times \text{Ti}) + 0.70\%$, S = 0.03%, P = 0.04%, N = 0.05%, O = 0.05% and comprising precipitates of TiB₂, the balance being Fe and unavoidable impurities resulting from the elaboration, providing a second steel sheet, welding the first steel sheet and the second steel sheet by using a filler wire, said filler wire having composition, comprising Ti: 0.8 – 2 wt% to obtain a molten zone having an average content of free titanium Ti* above or equal to 0.60 wt%.

21: 2024/07713. 22: 2024/10/11. 43: 2025/10/23

51: C25B; F27B; F27D

71: ARCELORMITTAL

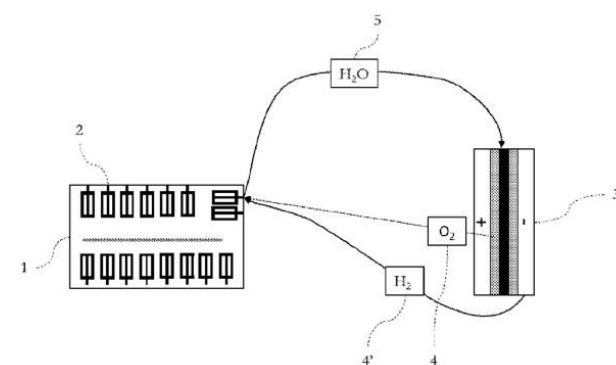
72: Francisco Javier LAGO FERNANDEZ, Pedro PRENDES, Jon REYES, Victor CUERVO PINERA

33: IB 31: PCT/IB2022/057148 32: 2022-08-02

54: METHOD FOR HEATING A FURNACE

00: -

The invention relates to a method for heating a furnace comprising radiant tubes and being able to thermally treat a running steel strip comprising the steps of: i. supplying at least one of said radiant tubes with H₂ and O₂ such that said H₂ and said O₂ get combined into heat and steam, ii. recovering said steam from said at least one of said radiant tubes, iii. electrolyzing said steam so as to produce H₂ and O₂, iv. supplying at least one of said radiant tubes with said H₂ and O₂ produced in step iii, such that they get combined into heat and steam.



21: 2024/07715. 22: 2024/10/11. 43: 2025/10/23

51: C21D; C22C

71: ARCELORMITTAL

72: Dongwei FAN, Ranga Nikhil Vinayak YELLAKARA

54: A COLD ROLLED MARTENSITIC STEEL AND METHOD OF PRODUCING THEREOF

00: -

A martensitic steel sheet comprising the following elements $0.07\% \leq C \leq 0.12\%$; $1.9\% \leq Mn \leq 2.5\%$; $0.2\% \leq Si \leq 0.6\%$; $0.01\% \leq Al \leq 0.1\%$; $0.1\% \leq Cr \leq 0.5\%$; $0.2\% \leq Mo \leq 0.6\%$; $0\% \leq S \leq 0.09\%$; $0\% \leq P \leq 0.09\%$; $0\% \leq N \leq 0.09\%$; $0.001\% \leq Ti \leq 0.1\%$; $0.0005\% \leq B \leq 0.005\%$; $0\% \leq Nb \leq 0.1\%$; $0\% \leq V \leq 0.1\%$; $0\% \leq Ni \leq 1\%$; $0\% \leq Cu \leq 1\%$; $0\% \leq Sn \leq 0.1\%$; $0\% \leq Pb \leq 0.1\%$; $0\% \leq Sb \leq 0.1\%$; $0.001\% \leq Ca \leq 0.01\%$; the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel consisting of, by area percentage, Tempered martensite from 80 % to 94% and Fresh martensite from 6% to 20%.

21: 2024/08007. 22: 2024/10/23. 43: 2025/10/31

51: C21D; C22C

71: ARCELORMITTAL

72: Véronique SMANIO, Fares HADDAD, Francois-Xavier HOCHÉ

54: FORGED PART OF STEEL AND A METHOD OF MANUFACTURING THEREOF

00: -

A steel part for the transmission system of an automobile comprising of the following elements, $0.2\% \leq C \leq 0.35\%$; $1.0\% \leq Mn \leq 1.6\%$; $0.2\% \leq Si \leq 0.7\%$; $0.001\% \leq Al \leq 0.1\%$; $0.01\% \leq Mo \leq 0.5\%$; $0.020\% \leq Nb \leq 0.06\%$; $1\% \leq Cr \leq 1.5\%$; $0 \leq P \leq 0.09\%$; $0 \leq S \leq 0.09\%$; $0.009\% \leq N \leq 0.09\%$; $0\% \leq Ni \leq 1\%$; $0\% \leq V \leq 0.2\%$; $0\% \leq Ti \leq 0.1\%$; $0\% \leq Cu \leq 1\%$; $0\% \leq B \leq 0.008\%$; $0\% \leq Sn \leq 0.1\%$; $0\% \leq Ce \leq 0.1\%$; $0\% \leq Mg \leq 0.10\%$; $0\% \leq Zr \leq 0.10\%$; the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of the core of said steel part comprising, by area percentage, at least 90% of Bainite, with a cumulative optional presence of any one or more from Residual Austenite, Pearlite, ferrite or martensite from 0% and 10% and precipitates of Aluminum and Niobium in form of AlN and Nb (C,N), such steel part having a martensite-enriched layer till the depth of 1mm or less on all surfaces of said steel part, such martensite-enriched layer comprising from 85% to 95% of martensite, the remainder being any one or more from bainite, residual austenite, ferrite or cementite.

21: 2024/08008. 22: 2024/10/23. 43: 2025/11/06

51: B30B

71: FIBRO GMBH

72: Markus MEYER

33: DE 31: 10 2022 117 325.9 32: 2022-07-12

54: SLIDER ASSEMBLY

00: -

The invention relates to a slider tool (100) having a slider bed (2) and a slider (3) movably mounted thereon by means of gliding plates (G1, G2) on a dovetail guide, wherein an unsymmetrical concept of the dovetail connection is provided.

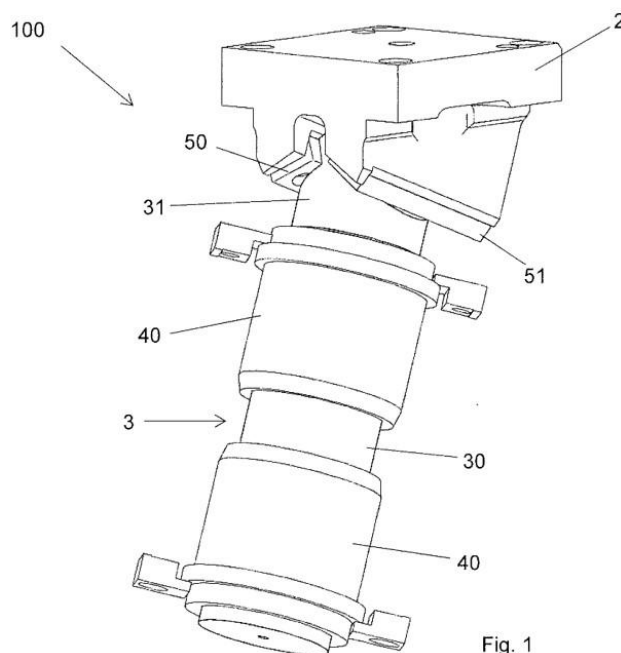


Fig. 1

21: 2024/08196. 22: 2024/10/30. 43: 2025/11/12

51: A23L; A61P

71: FERTIS INDIA PVT. LTD.

72: KANUMURU, Rahul Raju, KOCHUMALAYIL, Shaji George, SURANENI, Ravikumar, VANA, Murali Mohanarao

33: IN 31: 202141052783 32: 2022-05-17

54: COMPOSITIONS COMPRISING METHYLXANTHINES AND DISACCHARIDES DERIVED FROM ENZYMIC CONVERSION OF SUCROSE

00: -

The present invention discloses compositions comprising methylxanthines in combination with disaccharides derived from enzymatic conversion of sucrose. More particularly, the present invention discloses compositions comprising methylxanthines and disaccharides derived from enzymatic

conversion of sucrose selected from turanose, leucrose, trehalulose and isomaltulose or in combinations thereof.

21: 2024/08307. 22: 2024/11/04. 43: 2025/05/07

51: G01N; G06N; G06Q

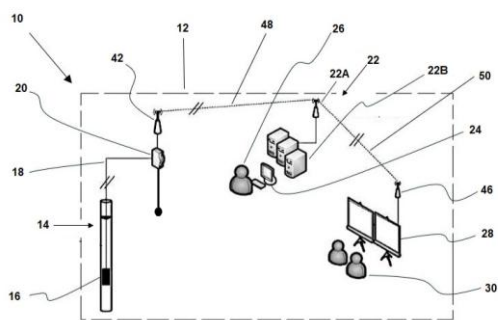
71: Tabani Mtombeni

72: Tabani Mtombeni

54: WATER QUALITY PREDICTION SYSTEM

00: -

A method and system of predicting water quality based on measured properties of the water using an artificial intelligence tool.



21: 2024/08450. 22: 2024/11/07. 43: 2025/11/12

51: C21C; F27B; F27D

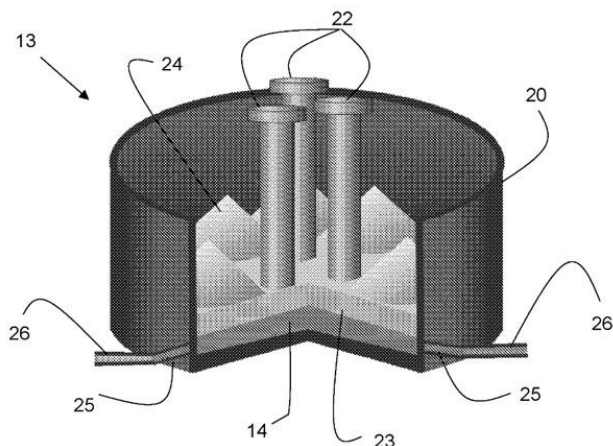
71: ARCELORMITTAL

72: Jean-Christophe HUBER, Mathieu SANCHEZ, Simon Pierre DEPLECHIN

54: METHOD FOR MANUFACTURING PIG IRON INTO AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED SMELTING FURNACE

00: -

The invention deals with a method for manufacturing pig iron in an electrical smelting furnace 13 comprising a vessel 20, said method comprising the following successive steps: - loading DRI product in said vessel 20 - melting said DRI product to form a pig iron layer 14 topped by a slag layer 23 and - tapping said pig iron 14 into a ladle and - adding a silicon containing material directly in said pig iron 14 in the runner of at least one of said smelting furnace tap holes 25. It also deals with the manufacturing of steel from said pig iron and to the associated electrical smelting furnace.



21: 2024/08494. 22: 2024/11/08. 43: 2025/11/12

51: C21B; C21C; F27B; F27D

71: ARCELORMITTAL

72: Jean-Christophe HUBER, Mathieu SANCHEZ, Simon Pierre DEPLECHIN

54: A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED ELECTRICAL SMELTING FURNACE

00: -

The invention deals with a method for manufacturing pig iron in a smelting furnace 13 comprising a vessel 20, said method comprising the following successive steps: - loading DRI product in said vessel 20 - melting said DRI product to form a pig iron layer 14 topped by a slag layer 23 and - injecting a carbon containing material directly in said pig iron layer 14. It also deals with the manufacturing of steel from said pig iron and to an associated electrical smelting furnace 13.

21: 2024/08495. 22: 2024/11/08. 43: 2025/11/12

51: C21B; C21C; F27B; F27D

71: ARCELORMITTAL

72: Mathieu SANCHEZ, Jean-Christophe HUBER

54: A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED FURNACE

00: -

The invention deals with a method for manufacturing pig iron in a smelting furnace 13 comprising a vessel 20, said method comprising the following successive steps: - loading DRI product in said vessel 20 - melting said DRI product to form a pig iron layer 14 topped by a slag layer 23 and - injecting a desulphurizing reagent directly in said pig iron layer

14. It also deals with the manufacturing of steel from said pig iron and to the associated electrical smelting furnace.

21: 2024/08497. 22: 2024/11/08. 43: 2025/11/12

51: C21B; C21C; F27B; F27D

71: ARCELORMITTAL

72: Jean-Christophe HUBER, Mathieu SANCHEZ, Eric Alain Gabriel HESS

54: A METHOD FOR MANUFACTURING MOLTEN PIG IRON INTO AN ELECTRICAL SMELTING FURNACE

00: -

The invention deals with a method for manufacturing molten pig iron into an electrical smelting furnace 13, said method comprising the following successive steps: - providing a directly reduced iron product 12, - providing a carbon containing material 30, - feeding at least a part of the smelting furnace with the DRI product 12 in alternance with the carbon containing material 30, - melting the DRI Product 12 and the carbon containing material 30 to produce molten pig iron 14. It also deals with the manufacturing of steel from said pig iron.

21: 2024/08498. 22: 2024/11/08. 43: 2025/11/12

51: C21D; C22C

71: ARCELORMITTAL

72: Lieven BRACKE, Aniruddha DUTTA, Elvan EKIZ, Tom WATERSCHOOT

54: HIGH MANGANESE HOT ROLLED STEEL AND A METHOD OF PRODUCTION THEREOF

00: -

A High Manganese hot rolled steel having a composition comprising of the following elements $0.8\% \leq \text{Carbon} \leq 1.3\%$, $9.5\% \leq \text{Manganese} \leq 22\%$, $0.01\% \leq \text{Silicon} \leq 3\%$, $0.01\% \leq \text{Aluminum} \leq 3\%$, $0.03\% \leq \text{Phosphorus} \leq 0.1\%$, $0.03\% \leq \text{Sulfur} \leq 0.1\%$, $0\% \leq \text{Nitrogen} \leq 0.01\%$, $0\% \leq \text{Niobium} \leq 0.03\%$, $0\% \leq \text{Titanium} \leq 0.2\%$, $0\% \leq \text{Chromium} \leq 1.5\%$, $0\% \leq \text{Molybdenum} \leq 0.5\%$, $0\% \leq \text{Calcium} \leq 0.005\%$, $0.01\% \leq \text{Copper} \leq 2\%$, $0.01\% \leq \text{Nickel} \leq 3\%$, $0\% \leq \text{Boron} \leq 0.01\%$, $0\% \leq \text{Magnesium} \leq 0.005\%$, the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel consisting in, in area fraction, 95% or more of Austenite, 0% to 5% Carbides wherein the grain size of the grains of Austenite is 15 microns or more.

21: 2024/09572. 22: 2024/12/11. 43: 2025/10/31

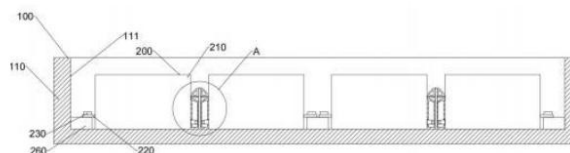
51: H01M

71: JIANGSU JINPENG GROUP CO., LTD, HEBEI JINPENG AUTOMOBILE INDUSTRY CO., LTD, JIANGSU JINPAIKE NEW ENERGY CO., LTD
72: DENG, Mimi, TANG, Ke, OU, Yankun, ZHU, He
33: IB 31: PCT/CN2024/095633 32: 2024-05-28
33: CN 31: 2023110600449 32: 2023-08-22

54: NEW ENERGY VEHICLE BATTERY PACK

00: -

Disclosed is a battery pack for energy vehicles comprising a protecting assembly which includes a rectangular battery box which is installed on a complementary installation groove parallel to the central axis of a vehicle body and a battery assembly which includes a battery pack which is rectangular and fixed in the installation groove, parallel to the installation groove. The partial cracking of the connecting plates can be effectively prevented from damaging the whole connecting plates in the process of use, and the fixing effect of the connecting plates on the battery pack is improved. In the process of use, the installation efficiency can be increased through the design of uneven size of the connecting plates. Meanwhile, through the shape of the connecting plates, the pressure resistance of the connecting plates is improved in the process of use and the safety in use is also improved.



21: 2024/09953. 22: 2024/12/20. 43: 2025/11/12

51: H01B; H01L; H01M; H02J; B64C; B64D; B64G

71: NISHIZAWA Katsuya

72: NISHIZAWA Katsuya

33: JP 31: 2022-086263 (JP) 32: 2022-05-26

33: JP 31: 2022-123161 (JP) 32: 2022-08-02

33: JP 31: 2022-181631 (JP) 32: 2022-11-14

33: JP 31: 2023-007722 (JP) 32: 2023-01-22

33: JP 31: 2023-063114 (JP) 32: 2023-04-09

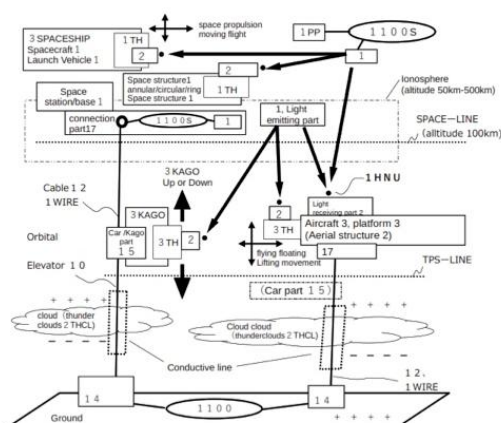
33: JP 31: PCT/JP2023/016185 (JP) 32: 2023-04-24

54: CONDUCTIVE LINE, TRANSFER DEVICE, AND SPACE SOLAR BEAM ENERGY TRANSPORTATION METHOD

00: -

The problem is to prevent laser leakage to the ground during power and energy transmission from space to the ground for applications such as space

solar power generation SSPS. In addition, when carbon and organic materials, which are lighter than copper, are used as conductors for driving spacecraft, plants, structures, and aircraft, such as SSPS, and for power transmission, there is a problem that charge carriers and charge carriers are scarce. SOLUTION: This application proposes a system consisting of a photon emitter (1) and receiver (2) that uses short-wavelength photons such as UV-C, which are absorbed by molecular atoms in the atmosphere, including oxygen, between space and air during power and energy transmission. For said conductors, we propose a conductor, electrode, and battery that applies the carrier injection and introduction method of the electric double layer transistor. We also propose ideas for induction, discharge, short circuit, and breakdown of positive and negative charges stored in the atmosphere using said light emitting part 1 and said conductors.



21: 2025/00679. 22: 2025/01/21. 43: 2025/11/07
51: B65D
71: ENVIROPAK (PTY) LTD
72: Majid AZIZ, Muazzam AZIZ
33: ZA 31: 2023/09939 32: 2023-10-25
54: PALLET ARRANGEMENT

00: -

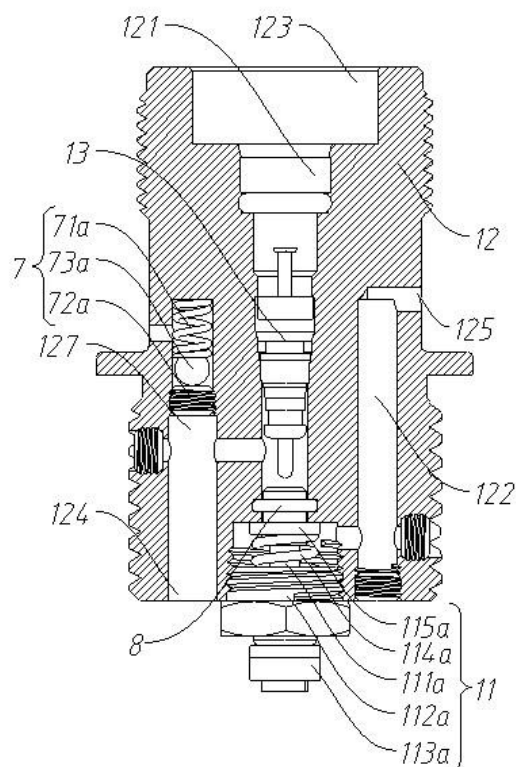
The invention discloses a pallet arrangement, which includes a die-cut bottom supporting panel made of corrugated paper board; a die-cut top supporting panel made of corrugated paper board; the bottom supporting panel and top supporting panel having cuts adapted to be folded in such a way to enable the bottom supporting panel and the top supporting panel being joined together; to providing supporting

columns, having cavity means, between the bottom supporting panel and the top supporting panel; and to enable the pallet arrangement to bear weight and being adapted to be lifted by a forklift, a pallet jack, a front loader, a jacking device, and/or an erect crane. The bottom and/or top supporting panel is single or double walled. For additional weight bearing, core tube and/or wood blocks are inserted in the cavity means.

21: 2025/00728. 22: 2025/01/22. 43: 2025/09/03
51: F16K; F17C
71: CHANT HEAT ENERGY SCIENCE & TECHNOLOGY (ZHONGSHAN) CO., LTD.
72: CHEN, Guoquan, GUO, Weizhao, MAI, Guangzhi, DENG, Xianmin
33: CN 31: 202410431849.8 32: 2024-04-10
33: CN 31: 202420739270.3 32: 2024-04-10
54: MULTI-POSITION CONTROLLED AIRWAY VALVE, REFILLING DEVICE AND REFILLING SYSTEM

00: -

Disclosed in the present application is a multi-position controlled airway valve, including a venting control member; a valve body, provided with a fluid channel and a venting channel, in which the venting control member is provided on the venting channel; a valve core assembly, mounted in the fluid channel, controlling the fluid channel to switch between a connected state and a sealed state, wherein the valve core assembly in a filling mode controls the fluid channel to be in the connected state and abuts against the venting control member so as to keep the venting channel to be in an inflatable mode. Disclosed is also a refilling device applied with the multi-position controlled airway valve and a refilling system applied with the refilling device, so as to achieve the objective of removing air and residual gases promptly when refilling with new fuels.

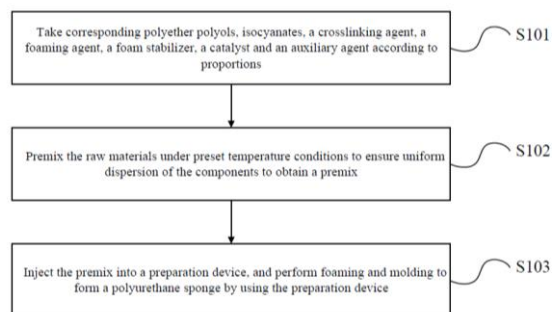


21: 2025/00851. 22: 2025/01/23. 43: 2025/11/17
 51: C08G; C08J
 71: JIANGSU HENGGUANG NEW MATERIAL CO., LTD.
 72: LI, Zhongjun, REN, Haojun, LI, Guang, LI, Tao
 33: CN 31: 202410794365X 32: 2024-06-19
54: PREPARATION PROCESS AND DEVICE OF POLYURETHANE COMPOSITE MATERIAL FOR AUTOMOBILE TIRE SOUND INSULATION SPONGE

00: -

The present invention relates to the technical field of preparation for sponges, and in particular to a preparation process and device of a polyurethane composite material for an automobile tire sound insulation sponge. The preparation process includes: taking corresponding polyether polyols, isocyanates, a crosslinking agent, a foaming agent, a foam stabilizer, a catalyst and an auxiliary agent according to proportions; premixing the raw materials under preset temperature conditions to ensure uniform dispersion of the components to obtain a premix; and injecting the premix into a preparation device, and performing foaming and molding to form a polyurethane sponge by using the preparation device. Through this fine molding process, the automobile tire sound insulation sponge with an

excellent sound insulation property and good durability can be produced.



21: 2025/01330. 22: 2025/02/12. 43: 2025/08/27
 51: C07B; C07C
 71: Consejo Superior de Investigaciones Científicas (CSIC), Universitat Politècnica de València
 72: PRIETO GONZÁLEZ, Gonzalo, CETERONI, Ilaria, LLOPIS PÉREZ, Sebastián
 33: ES 31: P202230686 32: 2022-07-27
54: METHOD FOR PRODUCING AMINES
 00: -

The invention discloses a method for producing alkylamines using synthesis gas reaction and a nitrogen compound over a solid catalyst in a single reaction stage. The method results in high alkylamine selectivity with low carbon dioxide and non-nitrogen hydrocarbon production. The invention further discloses a method in which the produced alkylamines are mainly fatty amines with hydrocarbon chains having between 7 and 30 carbon atoms. The invention also discloses a solid catalyst for said method.

21: 2025/01360. 22: 2025/02/13. 43: 2025/09/01
 51: A23L; A23P; A61K; C09B; C11D
 71: Givaudan SA
 72: AUSSANT, Emmanuel
 33: GB 31: 2210341.0 32: 2022-07-14
54: IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS

00: -

The present invention provides a microcapsule composition in the form of a slurry, comprising a plurality of core-shell microcapsules comprising a core comprising at least one functional material and a shell encapsulating the core, wherein the core-shell microcapsules represent about 25 wt% to about 50 wt% of the composition; and an aqueous phase, wherein the aqueous phase comprises a

monovalent and/or a divalent inorganic salt, and wherein the conductivity of the microcapsule composition is above about 5000 $\mu\text{S}/\text{cm}$.

21: 2025/01398. 22: 2025/02/14. 43: 2025/09/04

51: B60L; B61B; B61C; H02J

71: ROBERT PHILLIP BRIGDEN

72: ROBERT PHILLIP BRIGDEN

33: ZA 31: 2024/01658 32: 2024-02-27

54: A TRAIN AND METHOD OF ADAPTING/OPERATING A TRAIN

00: -

A train and a method for operating/adapting a train. The train includes a locomotive and a plurality of train wagons. The locomotive is powered via a catenary/overhead line by power which is (i) of a specific type ("first type"), with the specific type being either DC or AC power, and (ii) of a specific voltage ("first voltage"). The train includes a power transformation arrangement and a control arrangement. The power transformation arrangement transforms incoming power, which differs from the first type and first voltage, to outgoing power which is of the first type and first voltage. An output of the power transformation arrangement is electrically connected to the locomotive so that the locomotive can utilise the power put out by the power transformation arrangement. The control arrangement distributes power drawn from the catenary/overhead line to the power transformation arrangement, if the power differs from the first type and first voltage.

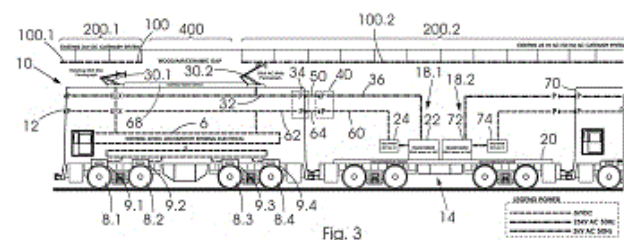


Fig. 3

21: 2025/01470. 22: 2025/02/17. 43: 2025/09/04

51: G01F; G01H; G01N

71: BLUE CUBE TECHNOLOGY (PTY) LTD

72: DU PLESSIS, Francois Eberhardt, LE ROUX, Petrus Albertus

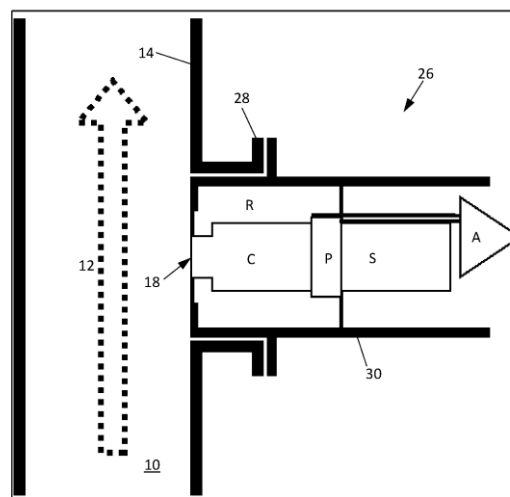
33: GB 31: 2211206.4 32: 2022-08-01

54: APPARATUS AND METHOD FOR MEASURING PARTICLE SIZE AND RELATED

PARAMETERS OF SOLID PARTICLES IN A TURBULENT MULTIPHASE FLOW

00: -

Solid particle size in a turbulent multiphase stream (10) is determined by measuring impact of the solid particles on an impact surface (18) of an impact sensor (30), to generate a signal and calculating particle size from the signal. The impact sensor (30) is embedded in a wall (14) and the impact surface (18) is parallel to a flow direction (12) of the multiphase stream (10). The impact sensor (30) may have a high internal natural frequency and solid particle materials may be differentiated by calculating a coefficient of restitution of each particle impact. Any three parameters selected from particle mass, size, density, hardness and velocity may be determined from a measured pulse, where the other two parameters are known or of a limited range.



21: 2025/01474. 22: 2025/02/17. 43: 2025/10/21

51: B25J

71: Institute of agricultural machinery research, Chinese Academy of Tropical Agricultural Sciences, Guangdong Ocean University

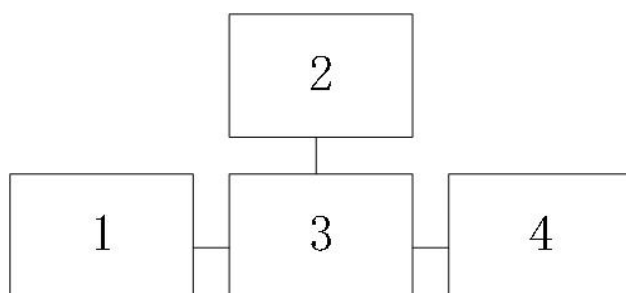
72: Niu Zhaojun, Hou Mingxin, Ge Chang, Ou Zhongqing, Huang Tao, Song Gang, Meng Qinghe, Lin Yue

54: SUGARCANE GRASPING AND THROWING SYSTEM BASED ON VISION AND MECHANICAL ARM END EFFECTOR AND METHOD THEREOF

00: -

The invention provides a sugarcane grasping and throwing system based on vision and mechanical arm end effector and a method thereof. The system

comprises a visual recognition module, a six-degree-of-freedom mechanical arm module, a control module and a throwing sensor. The visual recognition module collects the image data of sugarcane stacking area through RGB-D camera, and recognizes the position, posture and grasping point of sugarcane. The mechanical arm module is equipped with an end effector, which can flexibly perform grabbing and throwing actions. The control module coordinates the work of each module to ensure the smooth process of grasping and throwing, and the throwing sensor monitors the position of sugarcane after throwing, so as to realize the monitoring of throwing accuracy. The invention not only improves the efficiency and precision of sugarcane grasping and throwing, but also realizes intelligence and automation in the operation process, and has remarkable economic and social benefits.



21: 2025/01494. 22: 2025/02/18. 43: 2025/08/27

51: B21D; E05B; G07C

71: W.T.F.M INVESTMENTS (PTY) LTD.

72: ANGELOS, Komninos George

33: ZA 31: 2024/01744 32: 2024-02-29

54: KEY CONTROL SYSTEM AND METHOD

00: -

A method of and related system for issuing and assigning one key to a primary authorised person in charge of a related plurality of locks, within a specific series of locks, that the key can open, is provided. The method comprises the step of cutting the one key from a key blank that has a customised, bespoke cross-sectional top and bottom groove profile that matches a keyway in a corresponding lock cylinder. The method includes the step of cutting a limited and controlled number of additional keys from the key blank, each key being cut with a profile to fit the plurality of locks within one specific series of locks, with each lock in turn being used to lock and secure a box storing goods.

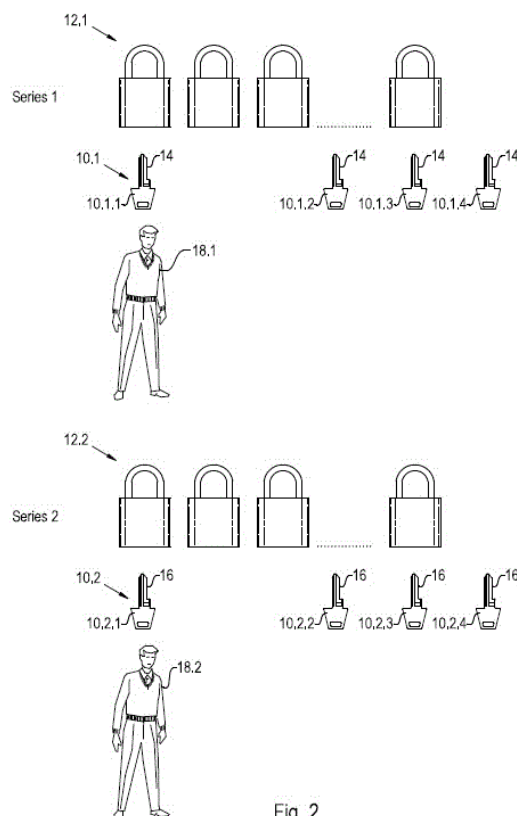


Fig. 2

21: 2025/01502. 22: 2025/02/18. 43: 2025/09/03

51: G01R; H02B; H02H

71: DEHN SE

72: ANDREAS SCHUMACHER, CHRISTIAN STAUDIGL, THOMAS GOTTSCHALK, STEFAN DIETWEGER

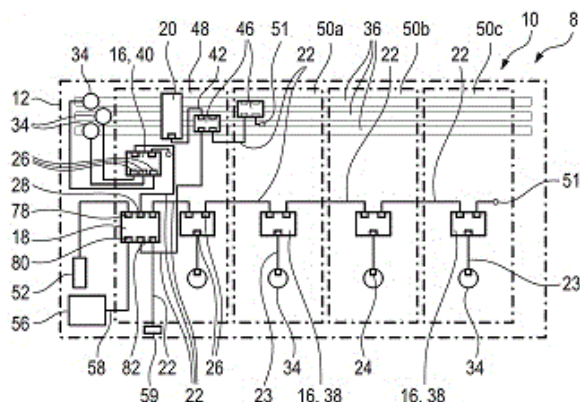
33: DE 31: 10 2024 104 685.6 32: 2024-02-20

54: ARC FAULT PROTECTION SYSTEM AND METHOD OF CONFIGURING AND/OR INITIALIZING AN ARC FAULT PROTECTION SYSTEM

00: -

An arc fault protection system (10) for a switchgear (12) is described, having a sensor (14), a sensor module (16) and a central device (18). The sensor (14) is connected to the sensor module (16). The sensor module (16) is connected in an information-exchanging manner to the central device (18) via a bus connection (22). The arc fault protection system (10) comprises a configuration and/or initialization mode (92, 94) and an operating mode (108). The arc fault protection system (10) is set up to determine a position of the sensor (14) and/or of the sensor module (16) in the configuration and/or initialization mode (92, 94). The arc fault protection system (10)

is set up to detect and quench arc faults in the operating mode (108).



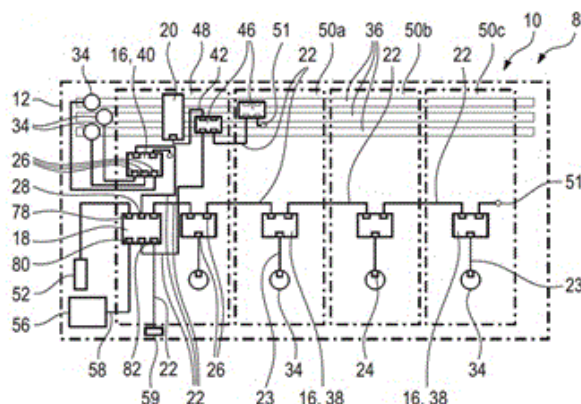
21: 2025/01503. 22: 2025/02/18. 43: 2025/09/03
51: G01R; G08C; H02B; H02H; H04L
71: DEHN SE
72: ANDREAS SCHUMACHER, CHRISTIAN
STAUDIGL, THOMAS GOTTSCHALK, STEFAN
DIETWEGER

33: DE 31: 10 2024 104 687.2 32: 2024-02-20

54: MODULAR ARC FAULT PROTECTION SYSTEM

00: -

An arc fault protection system (10) for a switchgear (12) is described, having at least one sensor (14), at least one sensor module (16) and a central device (18) which is adapted to be connected to the at least one sensor module (16) via a bus connection (22). The sensor (14) is set up to detect an arc-fault-relevant parameter and to generate a sensor signal and to forward it to the sensor module (16). The sensor module (16) is set up to receive and process the sensor signal to obtain a processed sensor signal. The sensor module (16) is set up to forward the processed sensor signal to the central device (18) via the bus connection (22). The central device (18) is set up to evaluate the processed sensor signal. The arc fault protection system (10) is preconfigured before installation in the switchgear (12), so that at least one unique identification is assigned to the at least one sensor (14) before installation in the switchgear (12), so that the position of the at least one sensor (14) in the arc fault protection system (10) is known to the central device (18) before installation in the switchgear (12).



21: 2025/01504. 22: 2025/02/18. 43: 2025/09/03

51: G01R; G08C

71: DEHN SE

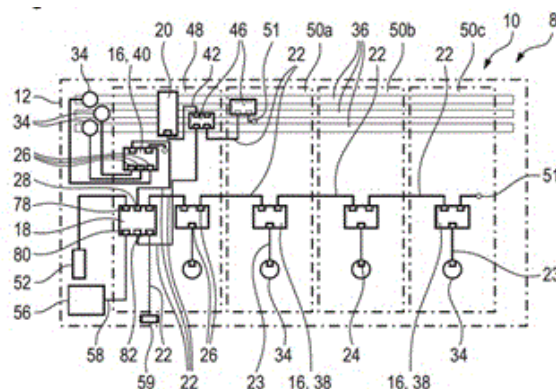
72: ANDREAS SCHUMACHER, CHRISTIAN
STAUDIGL, THOMAS GOTTSCHALK, STEFAN
DIETWEGER

33: DE 31: 10 2024 104 688.0 32: 2024-02-20

54: CENTRAL DEVICE FOR AN ARC FAULT PROTECTION SYSTEM

00: -

A central device (18) for an arc fault protection system (10), having at least one sensor module (16) which is connected to a sensor (14) is described. The central device (18) has at least one central device connection (28), via which the central device (18) is connected in an information-exchanging manner to the at least one sensor module (16) via a bus connection (22). The central device (18) is set up to allocate a unique identification to the at least one sensor module (16) and/or the sensor (14).



21: 2025/01596. 22: 2025/02/20. 43: 2025/08/26

51: F01B; F02B; F04B

71: CARBALLADA, Manuel Exposito

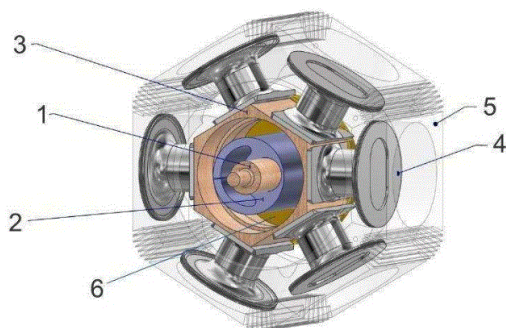
72: CARBALLADA, Manuel Exposito

33: BR 31: 1020220153574 32: 2022-08-03

54: FREE-PISTON ENGINE

00: -

The present invention belongs to the engine engineering sector, and refers, more specifically, to a structural arrangement for an internal combustion engine and/or star shaped air compressor, without crankshaft and connecting rods and with one or more surrounded pistons, being able to use any fuels in the case of the engine, liquid or gaseous including hydrogen (aiming to have no emissions with hydrogen) and obtain high thermodynamic efficiency with any fuel. The invention relates to an internal combustion engine and/or air compressor which has an arrangement that makes it possible to transmit the linear movement into circular movement by means of a ring together with an eccentric and with a coupling structure; the said structure is what joins the pistons to the ring, which can be polygonal in the case of the use of at least three pistons or welded in the case of one or two pistons involved.



21: 2025/01624. 22: 2025/02/21. 43: 2025/08/27

51: A01N; A01P

71: Givaudan SA

72: HARRISON, Ian Michael, AUSSANT, Emmanuel

33: EP(CH) 31: 22186452.3 32: 2022-07-22

54: COMPOSITION COMPRISING BIODEGRADABLE MICROCAPSULES

00: -

A microcapsule composition comprising a plurality of microcapsules comprising a biodegradable encapsulating material for delivery of functional materials is provided, comprising an anti-microbial preservation system comprising at least one non-partitioning preservation agent. The composition is resistant to microbial growth, as well as micro-organism-mediated premature leakage of the functional material during manufacture, distribution

and storage, but which when incorporated into a consumer product can deliver functional material in a desirable manner.

21: 2025/01656. 22: 2025/02/24. 43: 2025/09/04

51: F04B; F16H

71: CORNELL PUMP COMPANY LLC

72: JORDAN RUSSELL WHITE, BRANDON

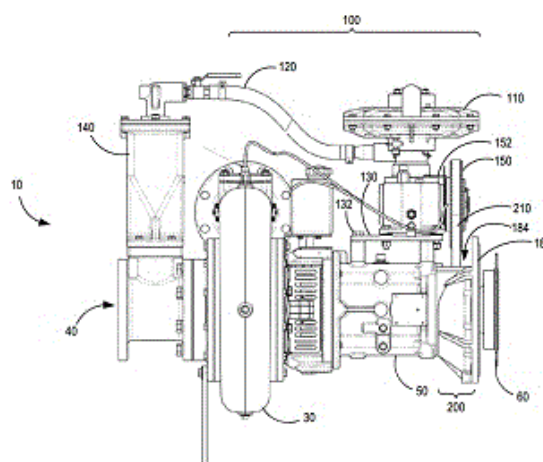
YODER, JORDAN A HALL

33: US 31: 63/572,431 32: 2024-04-01

54: BELT DRIVE SYSTEM FOR CENTRIFUGAL PUMP PRIMING ACCESSORIES

00: -

Systems and methods described herein provide a belt drive with necessary power transfer for a vacuum priming system while enabling simplified belt replacement. In one implementation, an auxiliary drive system for driving a vacuum pump in a pump priming system is provided. The auxiliary drive system includes a drive sprocket attached to a drive shaft of a main pump, an auxiliary sprocket attached to a shaft of the vacuum pump, an idler pulley mounted to an engine bracket of the main pump, and an endless drive belt having an inner side and an outer side. The idler pulley causes the endless drive belt to engage the drive sprocket and rotate the auxiliary sprocket without the endless drive belt encircling the drive sprocket.



21: 2025/01701. 22: 2025/02/25. 43: 2025/08/28

51: H04N

71: Huawei Technologies Co., Ltd.

72: FILIPPOV, Alexey Konstantinovich, RUFITSKIY, Vasily Alexeevich, CHEN, Jianle

33: US 31: 62/784,319 32: 2018-12-21

54: METHOD AND APPARATUS OF INTERPOLATION FILTERING FOR PREDICTIVE CODING

00: -

The present disclosure relates to intra- or inter-prediction for video encoding and decoding. For that purpose, an apparatus and methods obtain a reference sample and a subpixel offset value. A subpixel 4-tap interpolation filter is used to filter the reference sample to obtain a predicted sample value. The filter coefficients c_0 , c_1 , c_2 , and c_3 of the subpixel 4-tap interpolation filter satisfy $c_0 = 16 - \frac{p}{2}$, $c_1 = 16 + 16 - \frac{p}{2}$, $c_2 = 16 + \frac{p}{2}$, and $c_3 = \frac{p}{2}$, with p being a fractional part of the value of subpixel offset.

$$c_0 = 16 - \frac{p}{2}, c_1 = 16 + 16 - \frac{p}{2}, c_2 = 16 + \frac{p}{2}, \text{ and } c_3 = \frac{p}{2} \quad (I)$$

21: 2025/01702. 22: 2025/02/25. 43: 2025/08/28

51: B65D

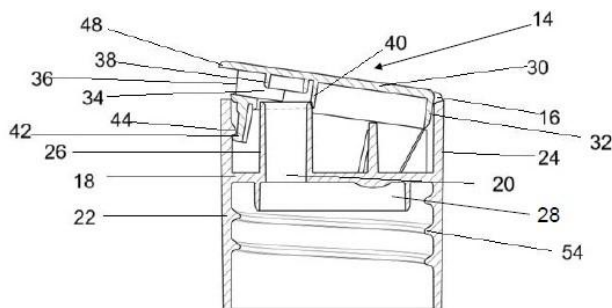
71: ANTONIO MANUEL DE VEIGA MARTINS, VINESH SINGH, ALBERTUS VENTER

72: MARTINS, Antonio Manuel De Veiga, VENTER, Albertus, SINGH, Vinesh

54: A ONE-PIECE DISPENSING CLOSURE

00: -

The invention provides a one-piece dispensing closure for a container. The one piece dispensing closure comprises a closure body mountable on a dispensing end of a container and an actuator disc, mountable on the closure body and comprising a dispensing channel, in fluid communication with an opening in the closure body, and terminating in a dispensing aperture at a dispensing edge of the actuator disc. The actuator disc and the closure body are connected to one another by a thin flexible hinge element, integral with and extending between the actuator disc and the closure body at the opposite edge of the actuator disc to the dispensing aperture. The actuator disc is tiltable between a closed position, in which the dispensing aperture is closed by an inner surface of the closure body and an open position in which the dispensing aperture is exposed above the closure body.



21: 2025/01724. 22: 2025/02/25. 43: 2025/09/01

51: A61K; A61P; C07D

71: Japan Tobacco Inc.

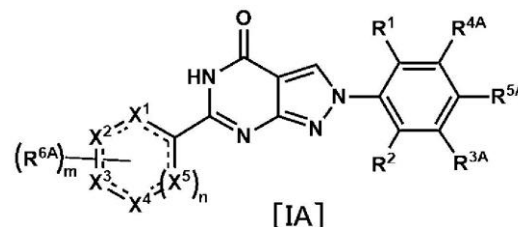
72: OHBA, Yusuke, ADACHI, Kaoru, SAKURAI, Kentaro, SATO, Shimpei, ITO, Shunya

33: JP 31: 2022-135949 32: 2022-08-29

54: PYRAZOLOPYRIMIDINE COMPOUND AND PHARMACEUTICAL USE THEREOF

00: -

Provided are: a pyrazolopyrimidine compound having an inhibitory activity on NLRP3 inflammasomes or a pharmaceutically acceptable salt thereof; a pharmaceutical composition containing the same; a pharmaceutical use thereof, etc. A compound of formula [IA] or a pharmaceutically acceptable salt thereof (in the formula, each symbol is as defined in the specification).



21: 2025/01771. 22: 2025/02/26. 43: 2025/09/02

51: C21D; C22C

71: Baoshan Iron & Steel Co., Ltd.

72: LI, Hongbin, DING, Jianhua, MIAO, Yuchuan, LIU, Zicheng, MEI, Feng

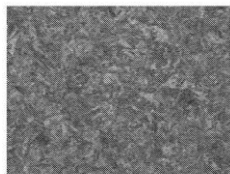
33: CN 31: 202210914393.1 32: 2022-07-29

54: CORROSION-RESISTANT AND WEAR-RESISTANT STEEL PLATE AND MANUFACTURING METHOD THEREFOR

00: -

Disclosed in the present disclosure are a corrosion-resistant and wear-resistant steel plate and a manufacturing method therefor. The steel plate comprises, in percentages by weight: C: $0.15\% \leq C \leq 0.25\%$; Si: $0.10\% \leq Si \leq 0.50\%$; Mn: $0.50\% \leq Mn \leq 1.50\%$; Mo: $0.01\% \leq Mo \leq 0.50\%$; Nb: $0.005\% \leq Nb \leq 0.050\%$; V: $0.01\% \leq V \leq 0.10\%$; Ti: $0.005\% \leq Ti \leq 0.050\%$; Al: $0.010\% \leq Al \leq 0.060\%$; Cr: $2.00\% \leq Cr \leq 5.00\%$; B: $0.0005-0.0050 \text{ wt\%}$; and P: $0.010\% \leq P \leq 0.030\%$. In addition, the steel plate further comprises one or more of Cu: $0.10\% \leq Cu \leq 0.40\%$, Ni: $0.20\% \leq Ni \leq 1.00\%$, RE: $0.01\% \leq RE \leq 0.10\%$, and Sb: $0.01\% \leq Sb \leq 0.20\%$, with the balance being Fe and inevitable impurities. The manufacturing method for the steel plate comprises the steps of: (1) a smelting and casting step; (2) a heating step; (3) a rolling step; and (4) an online cooling step. The steel plate

of the present disclosure has both good acid and alkali resistance and wear resistance



21: 2025/01802. 22: 2025/02/27. 43: 2025/09/04
51: E05B

71: A.L. HANSEN MANUFACTURING CO.

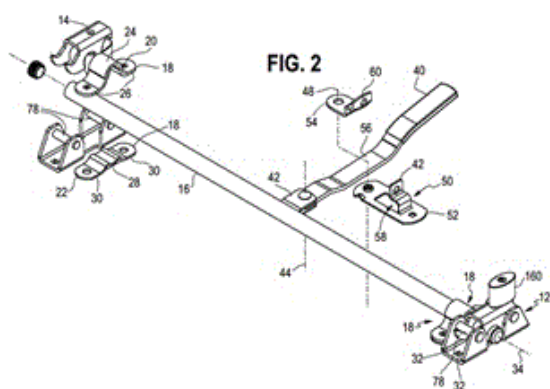
72: WILLIAM S HANSEN III

33: US 31: 63/559,594 32: 2024-02-29

54: BAR LOCK ASSEMBLY

00: -

A bar lock assembly includes a keeper having a base and a pair of laterally spaced side walls extending transversely from the base. At least one shaft extends between and is coupled to the side walls. A cam is coupled to and rotatable relative to the keeper between an engaged position and a disengaged position. The cam includes an engagement member engaged with the shaft when rotated to the engaged position. The engagement member is disengaged with the first shaft when rotated to the disengaged position. The cam may include a pair of engagement members. The keeper and/or cam may be roll formed and configured with a U-shaped cross-section.



21: 2025/01814. 22: 2025/02/27. 43: 2025/09/03
51: C21D; C22C

71: Baoshan Iron & Steel Co., Ltd.

72: LI, Hongbin, DING, Jianhua, JIAO, Sihai

33: CN 31: 202210914190.2 32: 2022-07-29

54: STEEL PLATE FOR BOX OF LARGE MINING DUMP TRUCK IN EXTREMELY COLD ZONE AND MANUFACTURING METHOD THEREFOR

00: -

A steel plate for a box of a large mining dump truck in an extremely cold zone and a manufacturing method therefor. The steel plate is divided into a composite-layer steel plate and a base-layer steel plate. The composite-layer steel plate and the base-layer steel plate are metallurgically bonded. The composite-layer steel plate comprises the following chemical components: 0.19-0.29 wt.% of C; 0.15-0.75 wt.% of Si; 0.55-1.55 wt.% of Mn; 0.10-0.70 wt.% of Cr; less than or equal to 0.030 wt.% of P; less than or equal to 0.010 wt.% of S; 0.010-0.060 wt.% of Al; 0.0005-0.0050 wt.% of B; any one or more selected from 0.01-0.60 wt.% of Mo, 0.01-0.08 wt.% of RE, 0.005-0.060 wt.% of Nb, 0.01-0.10 wt.% of V, and 0.005-0.060 wt.% of Ti; and the balance of Fe and inevitable impurities. The base-layer steel plate comprises the following chemical components: 0.08-0.13 wt.% of C; 0.15-0.55 wt.% of Si; 0.70-1.70 wt.% of Mn; 0.05-0.55 wt.% of Cr; 0.10-0.55 wt.% of Mo; 1.25-2.55 wt.% of Ni; less than or equal to 0.030 wt.% of P; less than or equal to 0.010 wt.% of S; 0.010-0.080 wt.% of Al; 0.0005-0.0050 wt.% of B; any one or more selected from 0.01-0.08 wt.% of RE, 0.005-0.060 wt.% of Nb, 0.01-0.10 wt.% of V, and 0.005-0.060 wt.% of Ti; and the balance of Fe and inevitable impurities. By means of the design of the steel element components, the composite-layer steel plate has relatively high strength and hardness, and the base-layer steel plate has excellent low-temperature toughness while having relatively high strength and hardness. According to the steel plate compounded by a rolling process, the steel plates of the layers are metallurgically bonded, so that the integrity of the steel plate can be ensured, and the characteristics of the steel plates of the layers can be exerted, and thus, the whole composite plate has excellent comprehensive mechanical properties. In addition, the contents of carbon and alloy elements are controlled, thereby reducing the carbon equivalent, thus ensuring that the steel plate has good welding performance.

21: 2025/01848. 22: 2025/02/28. 43: 2025/09/03
51: B60R; B65D

71: EASY DISPLAY ADS (PTY) LTD.

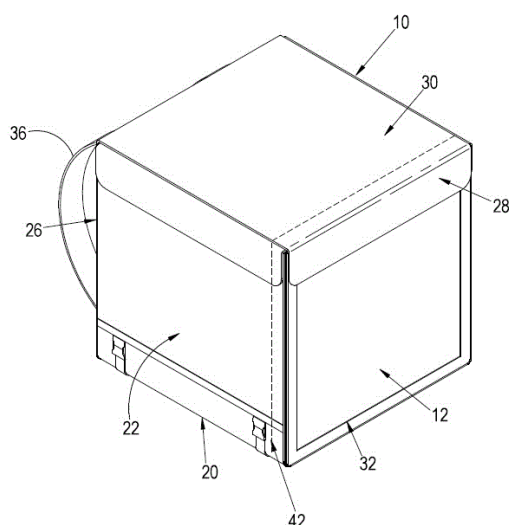
72: DLAMINI, Siphwe

33: ZA 31: 2024/01743 32: 2024-02-29

54: SCOOTER DELIVERY BOX

00: -

The present invention provides a backpack-type scooter delivery box with an integrated LED display screen that is designed to facilitate the transportation and carrying of the delivery box and to simultaneously enhance the visibility and safety of delivery personnel during nighttime operations. The LED scooter delivery box incorporates a series of LED lights strategically placed on the exterior surface of the box, typically at least on the operatively rear side of the delivery box, thereby ensuring improved visibility for both the rider and surrounding traffic. This invention aims to revolutionize the delivery industry by providing a safer and more efficient solution for scooter-based delivery services.



21: 2025/01858. 22: 2025/02/28. 43: 2025/09/05

51: A61F

71: Unicharm Corporation

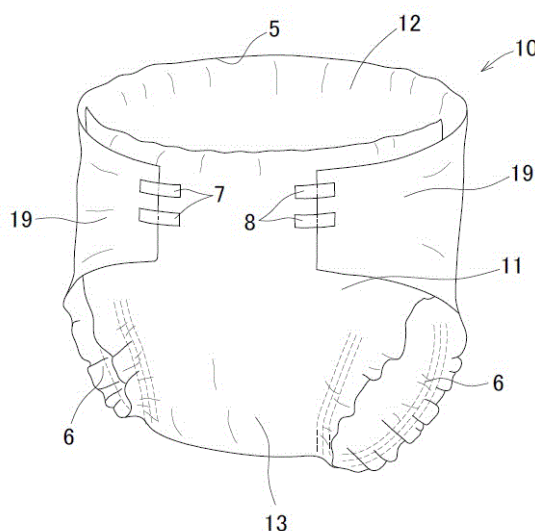
72: FUJIMOTO, Kazuya, OKUNO, Shingo, NORO, Nanami

54: DISPOSABLE WEARING ARTICLE

00: -

Provided is a disposable wearing article that allows a user to easily recognize the existence of a second sheet, allows a body fluid to disperse in a front waist region, and prevents the body fluid from flowing back toward a body. In a disposable wearing article, a second sheet 23 positioned between a top sheet 21 and an absorbent body 30 is colored, and the

absorbent body 30 has an absorbent core 31 and a concaved groove 33 that is formed on the absorbent core 31 and that extends in a longitudinal direction Y. A length W1 in a transverse direction X of the second sheet 23 is smaller than a separation dimension R1 in the transverse direction X between a pair of leakage barrier cuffs 44, and the concaved groove 33 and the second sheet 23 are disposed to be biased toward a front waist region 11 in the longitudinal direction Y.



21: 2025/01884. 22: 2025/02/28. 43: 2025/09/04

51: B01D; C01B

71: Casale SA

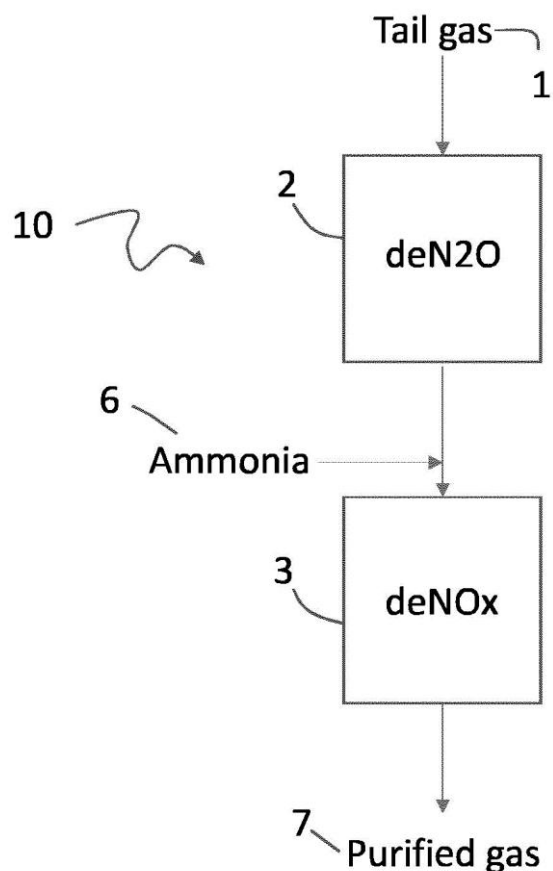
72: CEREÀ, Iacopo, GARBUJO, Alberto, OLDANI, Fabio

33: EP(CH) 31: 22201643.8 32: 2022-10-14

54: METHOD FOR REDUCING NOx IN A NITRIC ACID PLANT DURING TRANSITORY EVENTS

00: -

A method for reducing the NOx emission during start-up and shutdown events of a nitric acid plant, wherein the nitric acid plant comprises a tail gas treatment section (10) including a first catalytic bed (2) for removal of N₂O followed by a second catalytic bed (3) for removal of NOx, wherein during a start-up or shutdown the operation of said treatment section (10) is temporarily modified by adding a NOx reducing agent (4) upstream of said first catalytic bed (2), so that said first catalytic bed (2) provides reduction of NOx.



21: 2025/01885. 22: 2025/02/28. 43: 2025/09/05
51: G07D

71: Japan Cash Machine Co., Ltd.

72: HARAGUCHI, Kohei, ADACHI, Naomasa,
SUZUKI, Hiroyuki

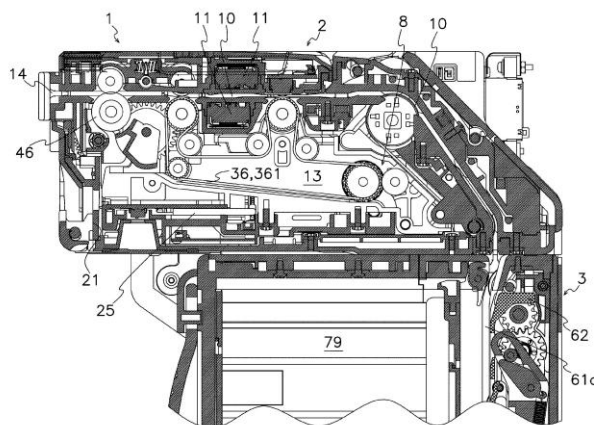
33: JP 31: 2022-158418 32: 2022-09-30

54: PAPER SHEET HANDLING DEVICE, GAME MACHINE MANAGEMENT DEVICE USING PAPER SHEET HANDLING DEVICE, AND DEGRADATION LEVEL DISPLAY METHOD FOR PAPER SHEET HANDLING DEVICE

00: -

[Problem] To provide a paper sheet handling device and a game machine management device in which a drive unit is replaced before the operational lifetime thereof is reached. [Solution] A paper sheet handling device (1) comprises a distinction device (2) that distinguishes the authenticity of paper sheets, a distinction transport passage (10) that is formed inside the distinction device (2), and a drive unit (13) that is detachably installed inside the distinction device (2). The drive unit (13) transports paper sheets inside the distinction device (2) along the

distinction transport passage (10). The drive unit (13) comprises a drive sensor (24) that detects a physical value for the inside of the drive unit (13) and a physical property storage device (25) that stores the physical value detected by the drive sensor (24). The physical value for the inside of the drive unit (13) is retrieved from the physical property storage device (25) to display the degradation level of the drive unit (13).



21: 2025/01906. 22: 2025/03/03. 43: 2025/10/21
51: A61H

71: SHANXI AGRICULTURAL UNIVERSITY

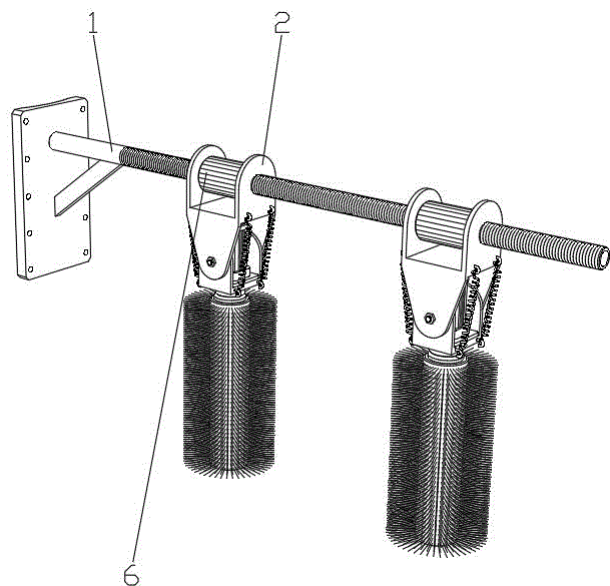
72: Wu Shouyan, Liu Wenjun, Yang Lihua, Dong Chunguang, Han Wenru, Yang Ruojin

54: MESSAGE DEVICE FOR DAIRY COWS IN ANIMAL HUSBANDRY AND APPLICATION METHOD

00: -

Disclosed are a message device for dairy cows in animal husbandry and an application method in the present invention. A mounting bracket assembly is included, a mounting seat assembly is sleeved on an outer side of one end of the mounting bracket assembly, an inner side of one end of the mounting seat assembly is rotatably connected to a massage brush assembly, a buffer elastic unit is buckled at lateral ends of the mounting seat assembly and the massage brush assembly, a connecting mounting bolt penetrates through and is arranged at one end inside the mounting seat assembly and the massage brush assembly, and an adjusting screw sleeve assembly is arranged on an outer side of the other end of the mounting bracket assembly in screw joint; and in the present invention, the adjusting screw sleeve assembly is arranged in a middle above the mounting seat assembly, to sleeve and insert sleeve

through-holes on the outer side of the mounting bracket sleeve after making the sleeve through-holes align with an adjusting internal thread, and through rotating the adjusting screw sleeve assembly, the position of the mounting seat assembly and the massage brush assembly on the mounting bracket sleeve is adjusted, the positions between two groups of mounting seat assembly and massage brush assembly are further adjusted to meet different needs.



21: 2025/01917. 22: 2025/03/03. 43: 2025/09/05
51: C04B

71: CCCC SPECIAL ENGINEERING CO., LTD.
72: WEI WANG, SHAOLIN YUE, SHIFENG ZHU,
QINGSONG DUAN, WEI CHEN, YANG LU,
XIAOYUN MA, WANG GAO, YICAI SANG
33: CN 31: 202211011655.X 32: 2022-08-23

**54: SLUDGE AND WASTE CONCRETE-BASED
GREEN CONCRETE PREPARATION METHOD**

00: -

Disclosed in the present invention is a sludge and waste concrete-based green concrete preparation method, comprising the following steps: step S1, sludge pretreatment; step S2, waste concrete crushing; step S3, recycled fine aggregate treatment; step S4, recycled coarse aggregate treatment; and step S5, green concrete preparation. According to the present invention, a large amount of construction waste such as waste concrete and sludge in rivers, lakes and seas is used as raw materials, so that a large amount of construction waste is consumed, achieving resource reutilization

of construction waste, and reducing high energy consumption caused by conventional methods, and therefore, the present invention relates to a green recycling technology; the concrete in the present invention can be applied to structures such as rural cement concrete pavements, and thus has broad application prospects and considerable benefits.

21: 2025/01919. 22: 2025/03/03. 43: 2025/09/05

51: B01J; C01B

71: HERAEUS PRECIOUS METALS GMBH & CO. KG

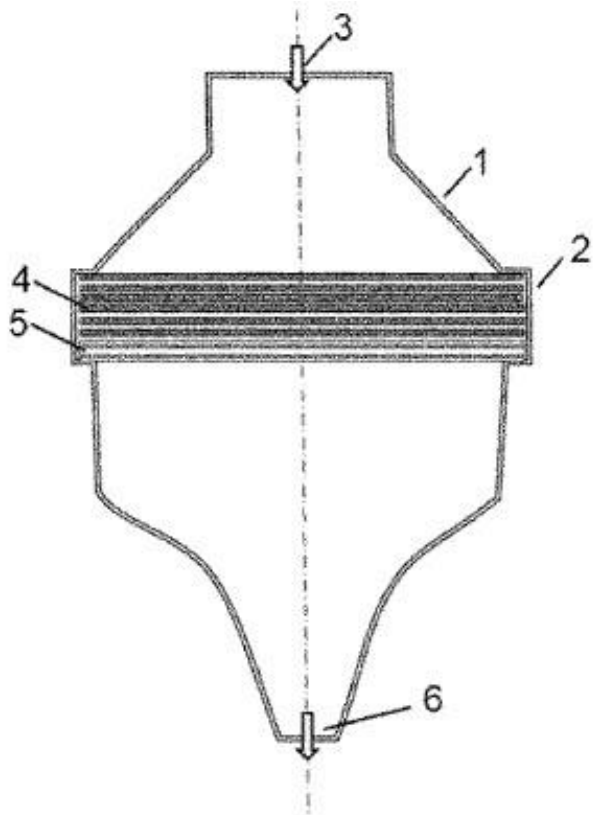
72: HESSE, Jens, MAIER, Dirk, HIRSCH, Pascal, JANTSCH, Uwe

33: EP 31: 22199163.1 32: 2022-09-30

**54: CATALYST SYSTEM HAVING A CATALYST
NETWORK COMPRISING A NOBLE METAL WIRE
FOR LONG CAMPAIGNS IN AMMONIA
OXIDATION**

00: -

The present invention relates to a catalyst system comprising more than one catalyst network, wherein at least one of the catalyst networks contains at least one noble metal wire consisting of a binary PtRh alloy. The binary PtRh alloy consists of 3.4-4.6 wt.% of rhodium, impurities and the remainder platinum. The catalyst system does not comprise a catalyst network containing a noble metal wire made of a further binary PtRh alloy comprising more than 7 wt.% of rhodium. The invention also relates to a method for the catalytic oxidation of ammonia, in which a catalyst system according to the invention is used.



发送第一轮询指令或者第二轮询指令，第一轮询指令包括第一指令索引和第一轮询参数，第一轮询参数用于确定第一时隙取值范围，第二轮询指令包括第二指令索引和第二轮询参数，第二轮询参数用于确定第二时隙取值范围

S110

图 2

S110 Send a first polling instruction or a second polling instruction, the first polling instruction comprising a first instruction index and a first polling parameter, the first polling parameter being used for determining a first timeslot value range, a second polling instruction comprising a second instruction index and a second polling parameter, and the second polling parameter being used for determining a second timeslot value range

21: 2025/01955. 22: 2025/03/04. 43: 2025/09/08
51: H04W
71: ZTE Corporation
72: BIAN, Luanjian, DAI, Bo, HU, Youjun, LIU, Kun
33: CN 31: 202211700244.1 32: 2022-12-28

54: INSTRUCTION SENDING METHOD, INSTRUCTION RECEIVING METHOD, COMMUNICATION NODE, AND STORAGE MEDIUM

00: -

An instruction sending method, an instruction receiving method, a communication node, and a storage medium. The instruction sending method comprises: sending a first polling instruction or a second polling instruction, the first polling instruction comprising a first instruction index and a first polling parameter, the first polling parameter being used for determining a first timeslot value range, a second polling instruction comprising a second instruction index and a second polling parameter, and the second polling parameter being used for determining a second timeslot value range (S110).

21: 2025/01989. 22: 2025/03/05. 43: 2025/09/09
51: H04W

71: PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA

72: LI, Hongchao, SUZUKI, Hidetoshi

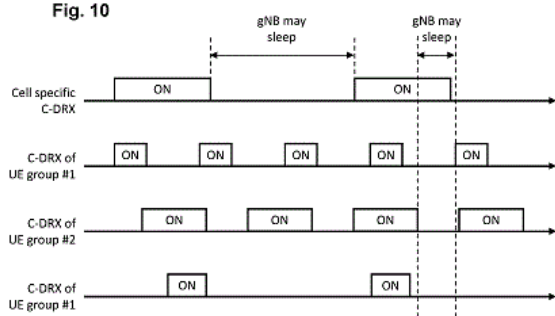
33: EP 31: 22190171.3 32: 2022-08-12

54: USER EQUIPMENT AND BASE STATION

00: -

Some exemplary embodiments relate to a user equipment, UE, a base station and respective methods for a UE and a base station. For example, the UE comprises a transceiver which, in operation, receives two or more configuration indicators, each indicating a configuration of a periodic timing pattern including ON periods. The UE, for example, further comprises circuitry which, in operation, causes the transceiver to receive and/or to transmit a signal based on the two or more configuration indicators. In another example, the UE comprises a transceiver which, in operation, receives an idle mode discontinuous reception, I-DRX, configuration indicator indicating an I-DRX configuration. The UE, for example, further comprises circuitry which, in operation, causes the transceiver to receive and/or transmit a signal during ON periods, in radio resource control, RRC, idle mode, in RRC inactive mode and in RRC connected mode, according to the I-DRX configuration.

Fig. 10



21: 2025/02014. 22: 2025/03/05. 43: 2025/09/10

51: F03D

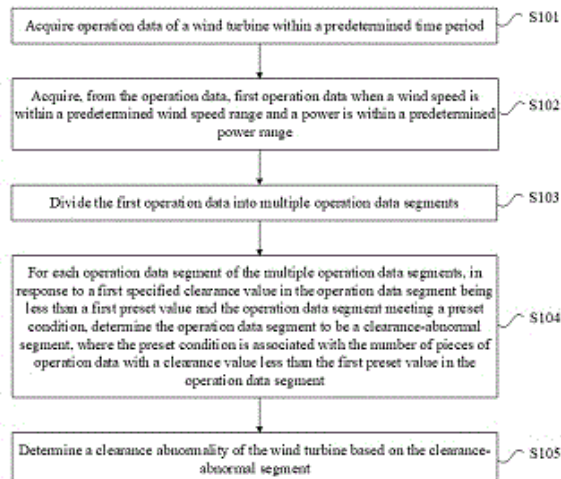
71: BEIJING GOLDWIND SCIENCE & CREATION
WINDPOWER EQUIPMENT CO., LTD.72: SUPING SU, WENLEI ZHANG, JIAYING LI,
HAITAO FANG

33: CN 31: 202211734407.8 32: 2022-12-30

**54: CLEARANCE ABNORMALITY DETECTION
METHOD AND APPARATUS FOR WIND TURBINE
GENERATOR SET**

00: -

A clearance abnormality detection method for a wind turbine generator set. The method comprises: acquiring, from operation data of a generator set within a predetermined period of time, operation data of when an air speed is within a predetermined air speed range and a power is within a predetermined power range, and dividing the operation data into a plurality of operation data fragments; with regard to each operation data fragment, when a first specified clearance value therein is less than a first preset value and the operation data fragment meets a preset condition, determining the operation data fragment to be a clearance-abnormal fragment; and determining a clearance abnormality of the generator set according to the clearance-abnormal fragment. Further comprised are a clearance abnormality detection apparatus for a wind turbine generator set, and a medium, a system and a wind turbine generator set. The method can effectively solve the problem of it being impossible to predict a clearance risk of a wind turbine generator set in advance.



21: 2025/02036. 22: 2025/03/06. 43: 2025/09/15

51: B07B

71: DERRICK CORPORATION

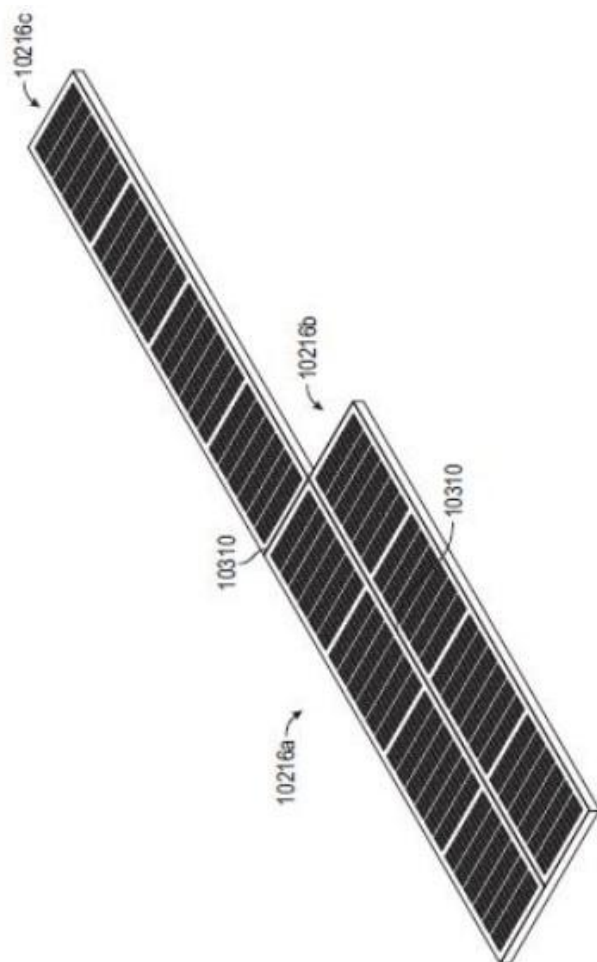
72: DEMAY, Alex, STODOLKA, Kurt

33: US 31: 63/328,228 32: 2022-04-06

**54: INJECTION MOLDED SCREENING
APPARATUSES AND METHODS**

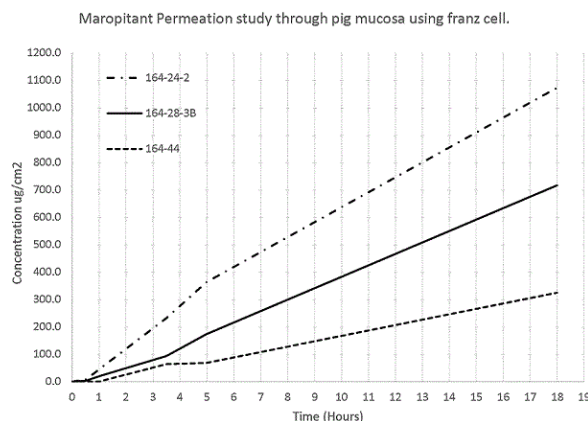
00: -

A screen assembly is formed by attaching side edges of a plurality of screen elements to each other. Reinforcing fibers may be embedded in the material of selected screen elements. The reinforcing fibers extend in a direction in which the screen assembly will be tensioned to secure the screen assembly to a screening machine. Hook strips may be attached to ends or sides of the screen assembly to facilitate mounting the screen assembly to a screening machine.



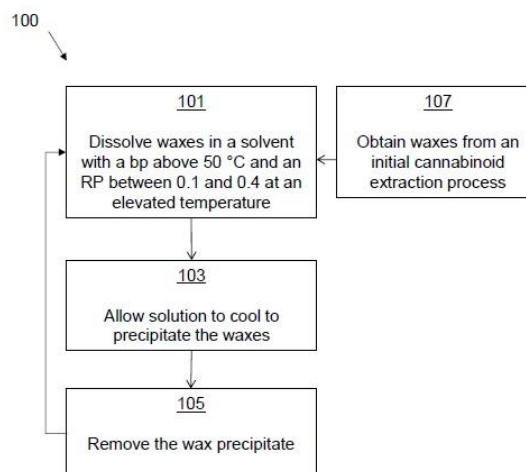
21: 2025/02041. 22: 2025/03/06. 43: 2025/09/15
 51: A61K C07D
 71: INTELGENX CORP.
 72: TIR, Billal, PAIEMENT, Nadine
 33: US 31: 63/396,956 32: 2022-08-10
54: HIGH LOADING ORAL FILM FORMULATION WITH IMPROVED BIOAVAILABILITY
 00: -

Oral film formulations are disclosed in the present application. The oral film formulations comprise: i. suspended Maropitant or a salt thereof; ii. an aqueous phase consisting of water and at least one surfactant; iii. at least one viscosity increasing agent/suspending agent and iv. at least one solubilizer.



21: 2025/02058. 22: 2025/03/06. 43: 2025/09/15
 51: A23L; A61K; B01D
 71: STELLENBOSCH UNIVERSITY
 72: GOOSEN, Neill Jurgens, VAN RENSBURG, Eugene, POTT, Robert William McClelland, DUMINY, Jan-Hendrik Marthinus
 33: GB 31: 2211628.9 32: 2022-08-09
54: A METHOD OF EXTRACTING CANNABINOIDS FROM PLANT WAXES
 00: -

A method of extracting cannabinoids from plant waxes is provided. The method comprises the steps of dissolving the plant waxes in a selected solvent having a normal boiling point above 50 °C and a relative polarity in a range from about 0.1 to about 0.4 at an elevated temperature, thereby forming a solution of the plant waxes and the cannabinoids contained therein and allowing the solution to cool to precipitate the plant waxes whilst the cannabinoids remain in solution.

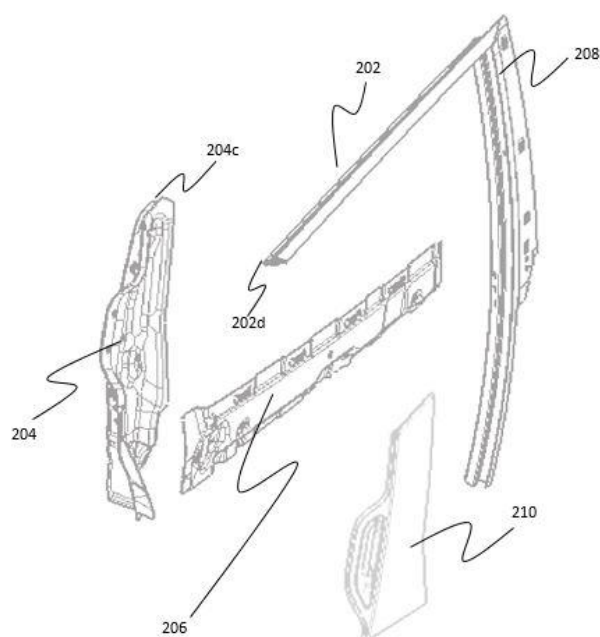


21: 2025/02081. 22: 2025/03/07. 43: 2025/09/16
 51: B60J; E06B
 71: MAHINDRA ELECTRIC AUTOMOBILE LIMITED
 72: ABU BAKKAR, U Mohammed, SUDHEER, Adithya P, MOHANTY, Abhinab, ASKARI, Hasan, VENKADESH, S, PANDURANGAN, Venugopal, SRIVASTAVA, Abhay, AMIT, Dahiya
 33: IN 31: 202421016884 32: 2024-03-08

54: A SASH FRAME FOR A SIDE DOOR OF A VEHICLE

00: -

A sash frame (200) for a side door (100) of a vehicle is disclosed. The sash frame (200) comprises of a bottom frame member (206), a top frame member having a top channel (CT), a front frame member (208) having a front channel (CF) and a rear frame member (204). The rear frame member (204) comprises an outer panel (204b), an inner panel (204a), and a rear channel (CR) provided between the outer panel (204b) and the inner panel (204a). The rear frame member (204) coupled with the top frame member (202) and the top frame member (202) coupled with the front frame member (208), whereby the rear channel (CR), the top channel (CT) and front channel (CF) are interconnected forming a continuous run channel and each of the inner panel (204a) and the outer panel (204b) being a stamped sheet metal panel configured to accommodate a scoop handle (210) of the vehicle.



21: 2025/02086. 22: 2025/03/07. 43: 2025/09/17
 51: G11B

71: LI, XiaoLin, YAO, Qian, GUAN, DeTian, LI, HaiYan, LI, SongYang, LI, JianDa, LI, HaoTian, XU, Guojun, ZHOU, BaoGuo, LI, Zhenxiang, LEI, YongQuan

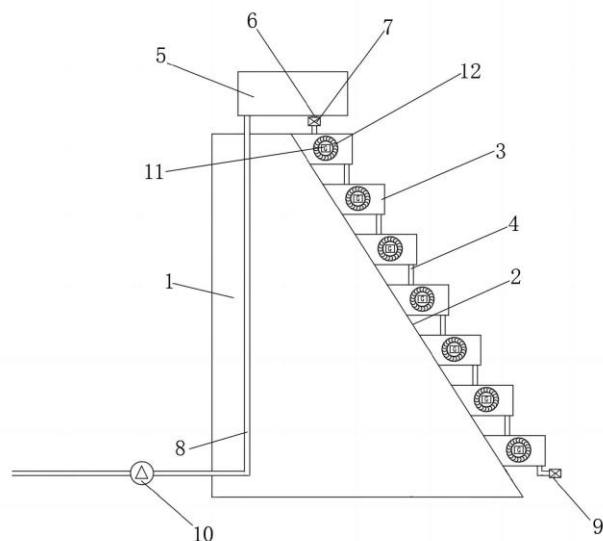
72: LI, XiaoLin, YAO, Qian, GUAN, DeTian, LI, HaiYan, LI, SongYang, LI, JianDa, LI, HaoTian, XU, Guojun, ZHOU, BaoGuo, LI, Zhenxiang, LEI, YongQuan

33: CN 31: 2025101231105 32: 2025-01-25

54: STEPPED PUMPED STORAGE DEVICE

00: -

The present invention discloses a stepped pumped storage device, and relates to the technical field of pumped water storage. The device includes: a structure, where one side wall of the structure is provided with a mounting slope; a water storage tank, where the water storage tank is fixedly connected to the top of the structure; a plurality of water flow tanks, where the plurality of water flow tanks are sequentially disposed at intervals from top to bottom on the mounting slope and fixedly connected to the mounting slope, the plurality of water flow tanks are connected by connecting water pipes, and a water flow tank that is located at the top of the structure is connected to the water storage tank through a water outlet pipe; a generator disposed inside the water flow tank, where a fixed end of the generator is fixedly connected to an inner wall of the water flow tank, a rotating shaft of the generator is connected to an impeller rotating assembly, and the impeller rotating assembly is correspondingly aligned with the connecting water pipe, so that the water flow impacts the impeller rotating assembly; and a water pumping pipe, where one end of the water pumping pipe is connected to the water storage tank, and the other end is connected to a water pump. According to the present invention, low energy consumption and high flexibility are exhibited, and reliance on a specific terrain is eliminated, thereby resolving a problem of dependence of a conventional pumped storage power station on a terrain difference.



21: 2025/02138. 22: 2025/03/10. 43: 2025/09/17

51: H01L

71: NIENHUIS, Jan, Balster

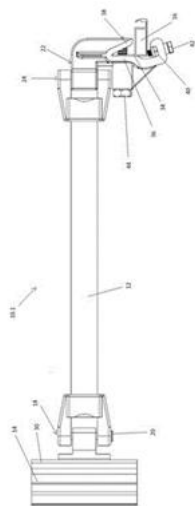
72: NIENHUIS, Jan, Balster

33: ZA 31: 2023/11609 32: 2023-12-19

54: SOLAR PANEL MOUNTING POSTS AND MOUNTING SYSTEM

00: -

The invention provides a post for mounting and supporting a solar panel on top of a roof. the post includes an elongate support member; a roof bracket engaging member, which roof bracket engaging member is pivotally connected to a first end of the support member; and a solar panel frame engaging member, which frame engaging member is pivotally connected to the opposite, second end of the support member.



21: 2025/02139. 22: 2025/03/10. 43: 2025/09/17

51: H01L

71: NIENHUIS, Jan, Balster

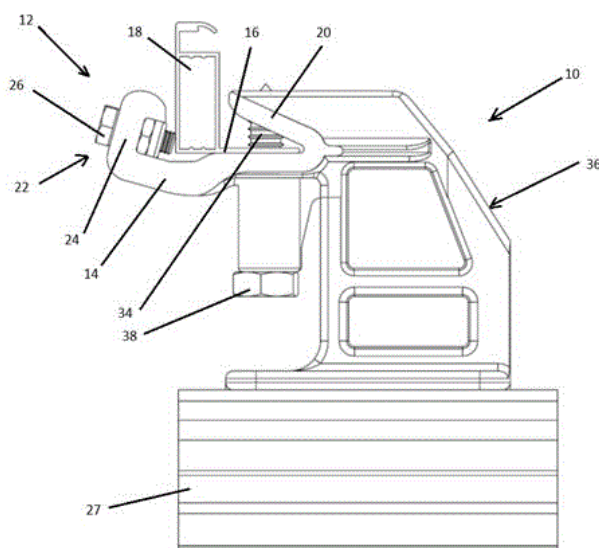
72: NIENHUIS, Jan, Balster

33: ZA 31: 2023/11608 32: 2023-12-19

54: ANTI-THEFT SOLAR PANEL MOUNTING BRACKET

00: -

The invention provides a bracket for mounting solar panels on a roof. The bracket includes a solar panel frame engaging part having a support base for receiving and supporting the bottom surface of the lip of a solar panel frame, a capture arm extending upward at an acute angle to the support base from an edge of the support base, which can, in use, hook over the lip of and capture the solar panel frame, and an urging means for urging the solar panel frame lip, in use, under the capture arm and a solar panel mounting rail engaging part. The solar panel frame engaging member further includes a threaded hole perpendicular to the support base to receive a bolt for frictionally engaging or engaging a hole provided in the lip of a solar panel frame. The bracket further includes a connection part to connect and space the solar panel frame engaging part and the solar panel mounting rail engaging part wherein the bolt and the solar panel rail engaging part are in the same plane and the bolt head being at least partially obscured by the rail, obscuring access to the bolt head, when a rail is engaged, in use.



21: 2025/02153. 22: 2025/03/11. 43: 2025/10/21

51: H01M

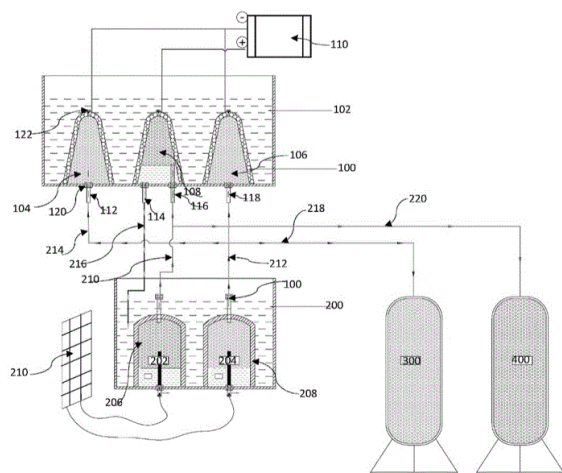
71: Harjinder Singh Cheema, J. P. Kundra, Mehar Cheema, Sahej Kaur Cheema

72: Harjinder Singh Cheema, J. P. Kundra, Mehar Cheema, Sahej Kaur Cheema

54: SYSTEM AND METHOD FOR A SELF-SUSTAINING GRAPHITE FUEL MECHANISM

00: -

The present invention discloses a self-sustainable graphite fuel system (100) for continuous electricity generation using hydrogen and oxygen gases produced via solar-powered electrolysis. The system comprises a fuel cell (102) with aluminum-doped graphite anodes (104, 106) and a cathode (108), an electrolyzer (200) powered by a solar panel (210), and storage tanks for hydrogen (300) and oxygen (400). During operation, solar energy splits water in the electrolyzer, generating hydrogen and oxygen gases, which fuel the electrochemical reaction in the fuel cell, producing electricity and water. Excess gases are stored for energy generation in the absence of sunlight. The aluminum doping enhances catalytic efficiency, increasing charge storage and reaction speed. The system offers high energy efficiency (87%), eco-friendliness, and cost-effectiveness, making it suitable for applications like solar energy storage, fuel cells for electric vehicles, and industrial heating. The invention ensures continuous, renewable, and sustainable power generation.



21: 2025/02173. 22: 2025/03/11. 43: 2025/09/17

51: G01S

71: AEROSPACE INFORMATION RESEARCH INSTITUTE, CHINESE ACADEMY OF SCIENCES

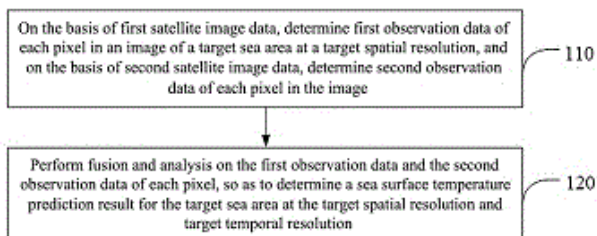
72: ZHENGQIANG LI, HAO ZHANG, JIE GUANG, LUO ZHANG, MINGJUN LIANG, YANG LV, CHENG FAN, YUANBEN ZHANG, YUNPENG BAI

33: CN 31: 202310426965.6 32: 2023-04-20

54: SEA SURFACE TEMPERATURE PREDICTION METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND STORAGE MEDIUM

00: -

The present application belongs to the technical field of marine observation. Provided are a sea surface temperature (SST) prediction method and apparatus, and an electronic device and a storage medium. The method comprises: on the basis of first satellite image data, determining first observation data of each pixel in an image of a target sea area at a target spatial resolution, and on the basis of second satellite image data, determining second observation data of each pixel in the image; and performing fusion and analysis on the first observation data and the second observation data of each pixel, so as to determine an SST prediction result for the target sea area at the target spatial resolution and a target temporal resolution, wherein the target temporal resolution is determined on the basis of a temporal resolution of the second satellite image data. By means of the present invention, an SST fusion product with high precision, high temporal-spatial resolution and high coverage can be effectively acquired, thereby thoroughly satisfying the requirements of rapid development in the fields of marine resource development, etc., and greatly increasing the application value of an SST product.



21: 2025/02196. 22: 2025/03/12. 43: 2025/11/04

51: E21F

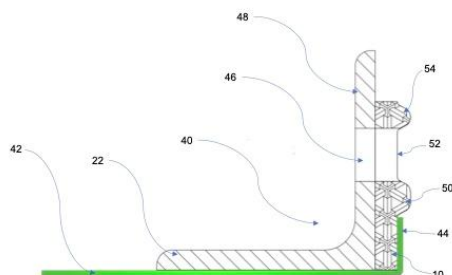
71: UNIQUE VENTILATION AND SUPPORT SYSTEMS (PTY) LTD

72: JAKES VAN DER MERWE

54: SEAL ARRANGEMENT FOR DUCTING

00: -

The invention relates to the field of interconnecting heating, ventilation and air conditioning (HVAC) ducting sections. More particularly, the invention pertains to an improved gasket arrangement for sealing connections between duct sections.



21: 2025/02200. 22: 2025/03/12. 43: 2025/09/18
51: A61K; F16H
71: SHANGHAI OUBANG MEDICAL
MANAGEMENT (GROUP) CO., LTD
72: CUI, Hairu
**54: FILLER FOR TREATING ORBITAL
DEPRESSION**
00: -

A filler for treating orbital depression is provided, which relates to the technical field of adhesive materials. The filler comprises the following components in parts by weight: 12-20 parts of collagen fibers, 0.2-0.4 parts of hyaluronic acid, 35-45 parts of physiological saline, and 1.4-1.6 parts of lidocaine solution. The filler provided by the present disclosure exhibits excellent efficacy in treating orbital depression.

21: 2025/02206. 22: 2025/03/12. 43: 2025/09/18
51: G21F G21C
71: X-ENERGY, LLC
72: TILTON, Alex
33: US 31: 17/821,692 32: 2022-08-23
**54: SYSTEM FOR STORING A RADIOACTIVE
SALT SOLUTION**
00: -

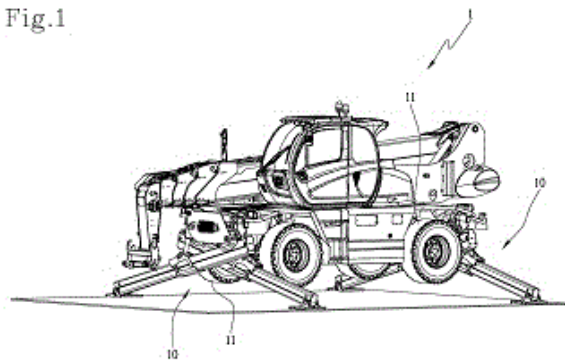
An improved system for receiving and storing a radioactive salt solution includes a tank configured to receive the radioactive salt solution while preventing criticality accidents, a solution inlet for carrying the radioactive salt solution to the tank, an overflow bottle, and a cap sealing the top end of the tank. The cap includes a lateral wye fitting having a lateral pipe configured to direct the radioactive salt solution from

the solution inlet into the tank, a vertical pipe configured to direct gases from the tank to a ventilation system, and an overflow line configured to carry excess radioactive salt solution from the tank to the overflow tank. An air gap between the lateral pipe and the solution inlet prevents backflow of the radioactive salt solution into the solution inlet. A control system includes a level switch configured to provide a signal that the tank contains a maximum volume.

21: 2025/02244. 22: 2025/03/13. 43: 2025/09/18
51: B66C
71: MANITOU ITALIA S.R.L.
72: MARCO IOTTI
33: IT 31: 102024000006097 32: 2024-03-19
**54: STABILISING SYSTEM FOR SELF-
PROPELLED OPERATING MACHINES**
00: -

A stabilising system for a self-propelled operating machine includes at least two scissor stabilisers which can adopt an active configuration to raise the machine's wheels off the ground and an inactive configuration to rest the wheels on the ground. Each stabiliser has a pair of rotatable telescopic stabilising arms, with each arm comprising a first segment that rotates between a raised and an operating position, and a second segment that slides between an extended and a closed position, featuring a foot for ground contact. Movement means rotate and slide the segments. A processing unit controls these movements in a sequence: rotating the first segments to an intermediate position, sliding the second segment of the first arm to the closed position, rotating the first segment of the second arm to the raised position, sliding the second segment of the second arm to the closed position, and finally rotating the first segment of the first arm to the final position.

Fig.1



21: 2025/02247. 22: 2025/03/13. 43: 2025/09/18
51: A01G
71: SHANDONG ACADEMY OF AGRICULTURAL SCIENCES

72: Zhengpeng CUI, Hezhong DONG, Jianlong DAI, Yanjun ZHANG, Dongmei ZHANG, Shizhen XU, Lijie ZHAN, Lin SUN

54: SALINE-ALKALI SOIL COTTON SOWING, SEEDLING EMERGENCE AND SEEDLING PROTECTION METHOD BASED ON MOISTURE REGULATION AND TEMPERATURE INCREASE

00: -

The present disclosure discloses a saline-alkali soil cotton sowing, seedling emergence and seedling protection method based on moisture regulation and temperature increase. The method specifically includes the steps of stubble cleaning and soil preparation after cotton harvesting before winter, film mulching and drip irrigation tape laying, drip irrigation and salt leaching before winter after drip irrigation tape laying, irrigation of water of 50-100 m³ per mu according to the saline-alkali degree, punching on films for sowing in the first ten days of April, immediate drip irrigation of warm water of 40-50°C after sowing, the drip irrigation amount per mu being 8-10 m³, and drip irrigation of seedling protection water of 0-10 m³ per mu according to the soil moisture content and climate conditions after one week. According to the saline-alkali soil cotton sowing method based on moisture regulation and temperature increase, film mulching, drip irrigation and salt leaching are conducted before winter, warm water drip irrigation for seedling emergence is conducted immediately after sowing, sowing can be conducted in advance, the seedling emergence time is shortened, the irrigation amount is reduced, labor is reduced, and full seedlings with vigorous growth in a single sowing can be achieved.

21: 2025/02294. 22: 2025/03/14. 43: 2025/11/03
51: G06Q

71: BARADIEN, Mogamat Salie

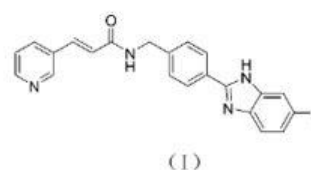
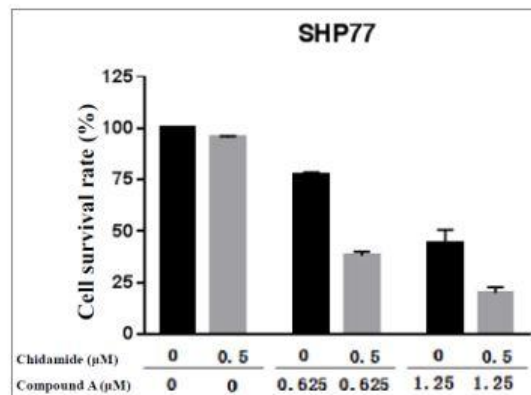
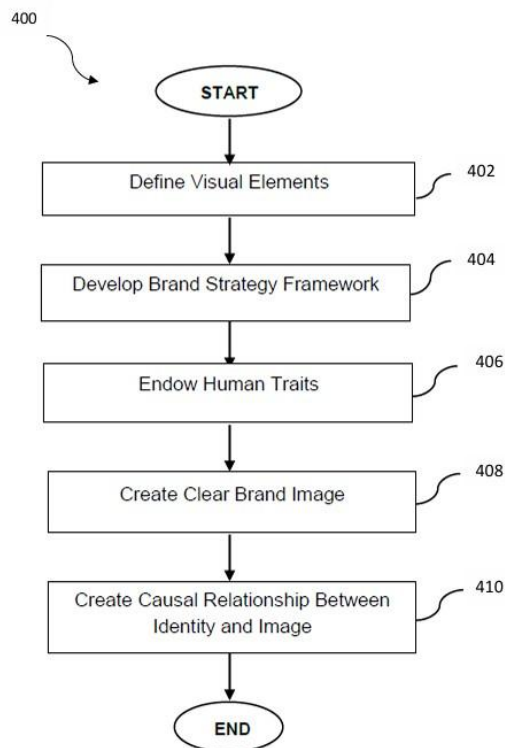
72: BARADIEN, Mogamat Salie

33: ZA 31: 2024/01186 32: 2024-02-07

54: A SYSTEM FOR, AND A METHOD OF DEVELOPING A BRANDING STRATEGY

00: -

The invention outlines a method and system for developing a branding strategy. The method includes defining key visual elements, designing a tailored brand strategy framework, and endowing the brand with human traits to make it relatable. The approach emphasizes creating a clear, relevant brand image that aligns with the brand's identity, and utilizing the causal relationship between brand identity and image to enhance resonance with customers. It involves designing a comprehensive brand graphics manual, mapping customer journeys, and identifying touchpoints for a seamless brand experience. The system incorporates a feedback loop to continuously refine the brand image, ensuring it resonates emotionally with customers and influences their perceptions and purchasing decisions. Additionally, the method emphasizes effective communication, storytelling, and the alignment of brand messaging with core values to foster loyalty and brand preference over competitors.



AA Cell survival rate (%)
 BB Chidamide (μM)
 CC Compound A (μM)

21: 2025/02302. 22: 2025/03/14. 43: 2025/09/19
 51: A61K; C07D; G01N; A61P
 71: SHENZHEN CHIPSCREEN BIOSCIENCES CO., LTD.

72: LI, Zhibin, SHAN, Song, ZHOU, You, YANG, Qianjiao, LU, Xianping

33: CN 31: 202211051615.8 32: 2022-08-30

54: TRKA (G667C) AND FLT3 TARGET INHIBITOR AND COMBINATION OF SAME WITH CHIDAMIDE

00: -

Disclosed is a TRKA (G667C), FLT3 and FLT3 (D835Y) target inhibitor N-[4-(6-fluoro-1H-2-benzimidazolyl)benzyl]-(E)-3-(3-pyridine)acrylamide as shown in formula (I), a preparation method therefor, a pharmaceutical composition containing same and chidamide, and an application thereof. By means of in-depth research, it has been found in the present invention that the inhibitor has excellent inhibitory effects on TRKA (G667C) and FLT3 kinase, and has an unexpected synergistic effect when combined with chidamide. The present invention also provides a use thereof as a reference substance for checking related substances in chidamide tablets to control the quality of the chidamide tablets.

21: 2025/02303. 22: 2025/03/14. 43: 2025/09/19

51: G01N A61B

71: RAPID VIRAL DETECTION SYSTEMS LLC

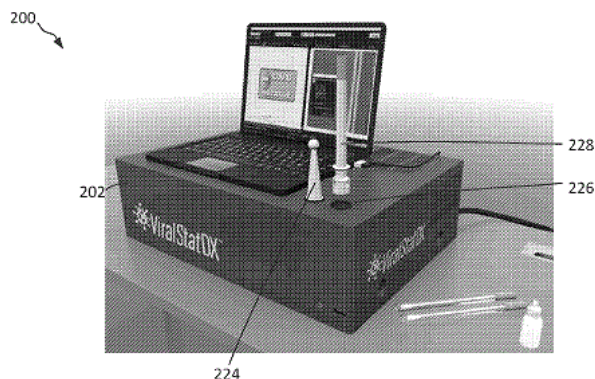
72: VALLABHANENI, Ramesh, Babu, LEVENTHAL, Ronald, H., KENEFICK, William, S.

33: US 31: 63/402,746 32: 2022-08-31

54: DIAGNOSTIC TESTING APPARATUS AND SYSTEM

00: -

A method and an apparatus utilizing targeted ion mobility spectrometry for the detection of the SARS-CoV-2 virus and its variants, by measuring the quantity of free polyamines including putrescine, spermidine, and spermine in a sublingual saliva sample. Other embodiments are capable of providing instant, cost effective, POC testing and test results for other viral and bacterial infections including influenza, acute and chronic respiratory conditions, certain forms of inflammation, and the detection of certain abnormal cells in human subjects.



21: 2025/02326. 22: 2025/03/17. 43: 2025/10/07
51: H01H

71: CHINA RAILWAY HUATIE ENGINEERING
DESIGN GROUP CO., LTD.

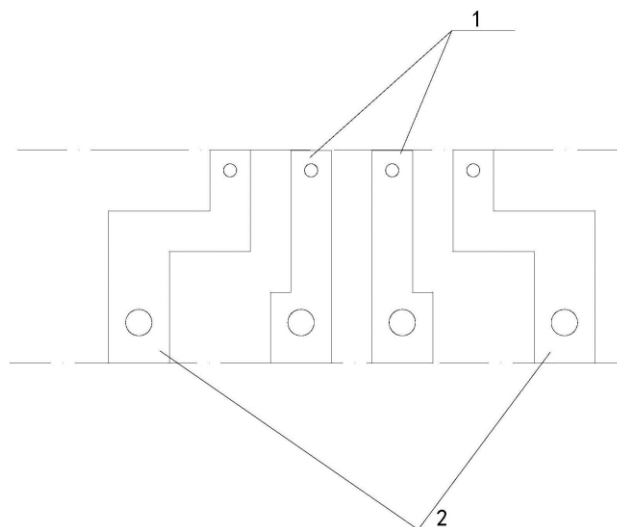
72: Zheng Xuri, Zhao Zhen, Gu Yadong

33: CN 31: 2024208325871 32: 2024-04-22

**54: A TRANSITION BUS CONNECTING
TERMINAL OF AN OUTLET TERMINAL OF A
LOW-VOLTAGE MOLDED-CASE SWITCH**

00: -

The present utility model discloses a transition bus connecting terminal of an outlet terminal of a low-voltage molded-case switch, including: a first transition terminal including a first support part and a first extension part provided on the first support part; one end of the first support part is used for connecting with an outlet terminal of the switch; the first extension part is provided on an end of the first support part away from the switch; a second transition terminal including a second support part parallel to the first support part and a second extension part provided on the second support part; the second extension part is provided on a side surface of the second support part away from the first support part and protrudingly provided along a side surface of the second support part; and the first extension part and the second extension part are provided at intervals. The present utility model improves the phase spacing of the transition bus connecting terminal of the outlet terminal at the cable end by means of the first extension part and the second extension part which are arranged opposite and at intervals, reduces the difficulty of connecting the cable terminal and the outlet terminal of the switch, and improves the safety of the low-voltage molded-case switch and the communication cable.



21: 2025/02337. 22: 2025/03/17. 43: 2025/10/21

51: G06F; G09B

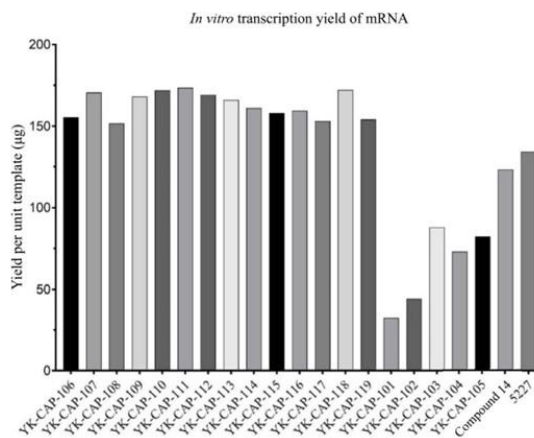
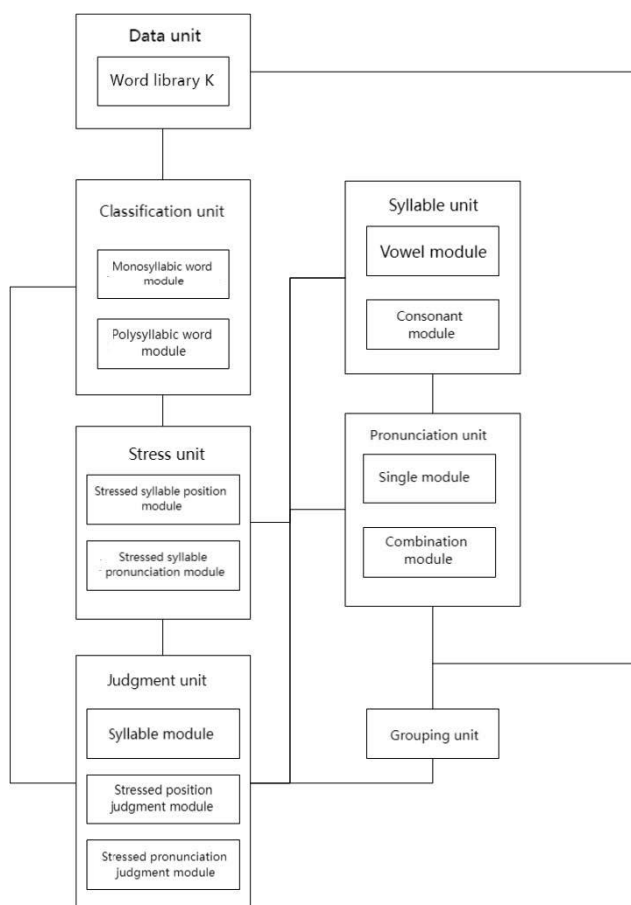
71: LI, Qinqian

72: LI, Qinqian

**54: WORD LEARNING METHOD AND SYSTEM
BASED ON SYLLABLE SPELLING AND
DIFFICULTY CLASSIFICATION**

00: -

The present invention discloses a word learning method and system based on syllable spelling and difficulty classification, which are applied to the technical field of word learning. At least one user may learn words by a word learning system. The word learning system includes: at least one data unit, wherein the data unit includes at least one word and word information corresponding to the word; at least one classification unit, wherein the classification unit classifies the word into a monosyllabic word and/or a polysyllabic word according to the word information; and at least one syllable unit, wherein the syllable unit divides the word into a combination of at least one vowel and at least one consonant, thereby cultivating students to learn the spelling of words based on a syllable spelling principle.



21: 2025/02406. 22: 2025/03/19. 43: 2025/10/27
51: H04L

71: VISHWAKARMA INSTITUTE OF
TECHNOLOGY

72: PATIL, Heramb Jitendra, UIKEY, Jitesh Sunil,
SHAIKH, Aman Babasaheb, PATIL, Pushkar Sunil,
WANKHADE, Shalini Vaibhav, MAHALLE, Parikshit
Narendra

**54: A DECENTRALIZED SYSTEM USING
BLOCKCHAIN WITH AI DRIVEN CHATBOT FOR
AGRICULTURE ASSISTANCE**

00: -

The present invention is related to a decentralized system using blockchain with AI driven chatbot for agriculture assistance. Currently, farmers and agricultural communities face challenges in accessing secure communication platforms and real-time, personalized agricultural advice, especially in rural areas with limited connectivity. Existing solutions often rely on centralized servers, which are prone to data breaches, censorship, and limited scalability, while agricultural assistance apps lack real-time, tailored support. This invention proposes a novel decentralized chat application integrated with AI chatbots to provide secure and efficient communication and assistance to farmers and agricultural stakeholders. While existing solutions often rely on centralized platforms, our approach leverages blockchain technology to ensure data privacy, security, and immutability. The AI chatbots, powered by natural language processing and machine learning, offer intelligent agricultural advice, ranging from crop management to pest control. By providing accurate and context-aware information, these chatbots can significantly enhance agricultural productivity and sustainability. Furthermore, the platform aims to facilitate access to government

21: 2025/02361. 22: 2025/03/18. 43: 2025/10/06
51: A61K; C07H; C12P

71: BEIJING YOU CARE KECHUANG
PHARMACEUTICAL TECHNOLOGY CO., LTD.
72: ZHANG, Honglei, SONG, Gengshen, LIU,
Yangjian, DONG, Kai, MA, Yuqing, ZHANG, Chao,
WANG, Yanfeng, ZHANG, Guoliang, JIANG, Lili,
ZHANG, Jinyu

33: CN 31: 2024105145551 32: 2024-04-26

33: CN 31: 2024108141919 32: 2024-06-24

**54: RIBOSE-MODIFIED CAP ANALOG AND USE
THEREOF**

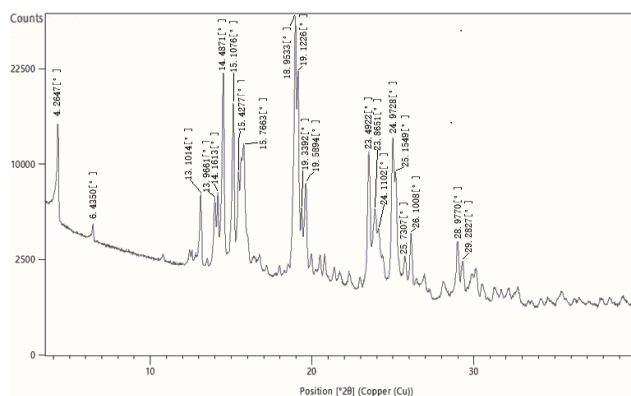
00: -

The present disclosure provides a ribose-modified cap analog and a use thereof, and belongs to the technical field of chemical and biological engineering. The ribose-modified cap analog has a structure of formula (I). The ribose-modified cap analog described herein can improve the stability of mRNA and/or the translation efficiency of mRNA.

schemes and resources, streamlining the process for farmers and reducing administrative burdens. This innovative solution addresses the critical need for secure, efficient, and intelligent communication tools in the agricultural sector.

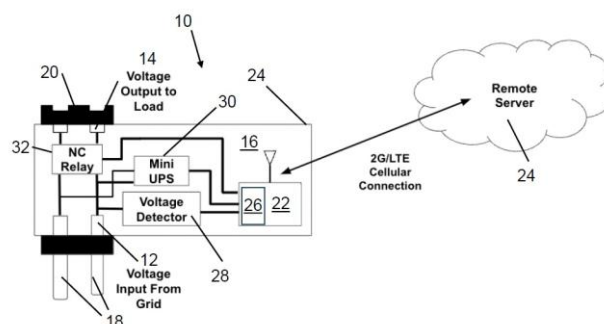
21: 2025/02432. 22: 2025/03/19. 43: 2025/09/25
51: A61K; C07D; A61P
71: CHENGDU SHIBEIKANG BIOMEDICAL TECHNOLOGY CO., LTD.
72: WANG, Xiaoyu, ZHANG, Li, JIANG, Jie, ZHOU, Ning, MOU, Xia
33: CN 31: 202310000722.6 32: 2023-01-03
54: CRYSTAL FORM AND AMORPHOUS FORM OF CAREBASTINE P-TOLUENESULFONATE
00: -

Provided are a crystal form and amorphous form of carebastine p-toluenesulfonate, and a preparation method therefor, relating to the field of medicinal chemistry, for use in solving the problems in the prior art that carebastine is unstable, not easy to scale up for synthesis, and difficult to make into a drug and the like. The crystal form and amorphous form of carebastine p-toluenesulfonate have the characteristics of high purity, high stability, high bioavailability, easy scale-up synthesis, and industrial production and the like, and have excellent hygroscopicity for easy storage.



21: 2025/02448. 22: 2025/03/20. 43: 2025/09/25
51: G05B; H04W
71: SOMERSET DYNAMICS (PTY) LTD
72: PORTER, Kyle Alexander, DU TOIT, Ruan Christiaan, FAUSTMANN, Alexander, COELHO, Carlos Nelson Serra
33: ZA 31: 2023/11654 32: 2023-12-20
54: POWER MONITORING DEVICE
00: -

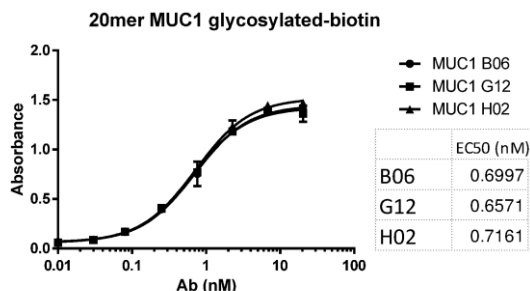
Devices, systems, and methods for power monitoring are disclosed. A power monitoring device may include a power supply input; a communication module for communication with a server; a controller which receives a power availability state of the power supply input, and communicates with the server by means of the communication module; and a battery which powers the device in the absence of power at the power supply input. Upon detecting a loss of power at the power supply input, the device is configured to connect to the server, send a power failure message to the server, and subsequently shut down or enter a low power mode to preserve the battery.



21: 2025/02451. 22: 2025/03/20. 43: 2025/09/26
51: A61K
71: R.P. SCHERER TECHNOLOGIES, LLC
72: RABUKA, David, DRAKE, Penelope M., KIM, Yun Cheol, BARFIELD, Robyn M., BAUZON, Maxine, OGUNKOYA, Ayodele
33: US 31: 63/059,497 32: 2020-07-31
54: ANTIBODY SPECIFIC FOR MUCIN-1 AND METHODS OF USE THEREOF
00: -

The present disclosure provides antibodies specific for Mucin 1. Nucleic acids that encode one or both of the variable chains of an antibody of the present disclosure are also provided, as are cells that include such nucleic acids. Also provided are compositions that include the antibodies of the present disclosure, including in some instances, pharmaceutical compositions. Methods of making and using the antibodies of the present disclosure are also provided. In certain aspects, provided are methods that include administering to an individual having a cell proliferative disorder a therapeutically effective amount of an antibody of the present disclosure, where the antibody is administered to the individual to enhance an immune response, e.g., a T

cell response, to abnormally proliferating cells of the cell proliferative disorder. The antibodies are also useful in various diagnostic, and monitoring applications, which are also provided.



21: 2025/02452. 22: 2025/03/20. 43: 2025/10/21
51: A61K; C12Q

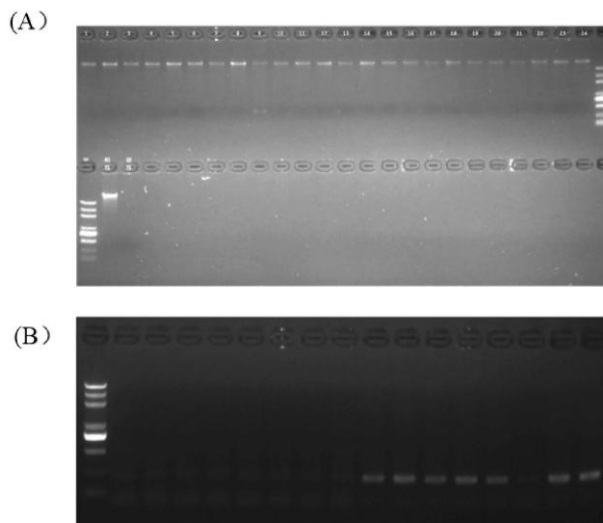
71: GUANG XI BOTANICAL GARDEN OF
MEDICINAL PLANTS

72: Danfeng TANG, Fan WEI, Changqian QUAN,
Meihua XU

**54: EST-SSR MOLECULAR MARKER, KIT AND
IDENTIFICATION METHOD FOR IDENTIFYING
MESONA CHINENSIS BENTH VARIETIES**

00: -

The present invention provides an EST-SSR molecular marker, kit and identification method for identifying *Mesona chinensis* Benth varieties, in which EST sequences in transcriptome data are used to analyze the composition and characteristics of microsatellite repetitive sequences contained in *Mesona chinensis* Benth, *Mesona chinensis* Benth EST-SSR primers are developed, and the effectiveness of the *Mesona chinensis* Benth EST-SSR primers and the universality of the *Mesona chinensis* Benth EST-SSR primers in *Mesona chinensis* Benth are verified, with a view to providing important tools and valuable information for researches such as identification of genetic relationship, phylogenetic evolution, genetic variation and construction of genetic maps in *Mesona chinensis* Benth and closely related species thereof.



21: 2025/02454. 22: 2025/03/20. 43: 2025/09/26
51: C12Q

71: THAKARE, Prashant, GHANWATE, Niraj,
MANDVIYA, Pooja

72: THAKARE, Prashant, GHANWATE, Niraj,
MANDVIYA, Pooja

**54: A KIT FOR RAPID DETECTION OF MINIMUM
INHIBITORY CONCENTRATION OF ANTIBIOTIC
AGAINST SELECTED BACTERIAL SPECIES**

00: -

The emergence of antimicrobial resistance against effective antibiotics is a global issue. Due to extensive use of antibiotics resistant is rapidly increasing. Accurate and rapid detection of antibiotic resistant plays important role in the early detection of treatment process, avoiding unnecessary use of antibiotics and to calculate the definite concentration of dose. The present invention discloses a rapid kit for identification of selected standard ATCC bacterial species against ciprofloxacin antibiotic using Chlorphenol Red β -D Galactopyranoside (CPRG). The kit uses a microtitre plate in which antibiotics are added with increasing concentration as per the 'E' test (Epsilometer). After addition of bacterial culture and incubation for 8hrs chromogen is added. The results are obtained within 1 hour and the color discrimination can be easily analyzed with naked eyes for resistant and susceptible strains.

	1	2	3	4	5	6	7	8	9	10	11	12
A	C	B	2	32	C	B	2	32	C	B	2	32
B	0.016	0.19	3	48	0.016	0.19	3	48	0.016	0.19	3	48
C	0.023	0.25	4	64	0.023	0.25	4	64	0.023	0.25	4	64
D	0.032	0.38	6	96	0.032	0.38	6	96	0.032	0.38	6	96
E	0.047	0.5	8	128	0.047	0.5	8	128	0.047	0.5	8	128
F	0.064	0.75	12	192	0.064	0.75	12	192	0.064	0.75	12	192
G	0.094	1	16	256	0.094	1	16	256	0.094	1	16	256
H	0.125	1.5	24	512	0.125	1.5	24	512	0.125	1.5	24	512
Sample 1				Sample 2				Sample 3				

21: 2025/02495. 22: 2025/03/24. 43: 2025/09/26

51: A01G

71: Wuwei Academy of Forestry Sciences

72: He Cai, Nie Fubiao, Jin Min, Mu Desheng, Wu Yuan, Li Qiang, Zhang Qinde, Zhang Jun, Jin Na, Liu Wei, Chang Xuanxuan, Ye Fang, Chen Yanhui, Li Dong, Dong Cunyuan, Gao Shengchun, Hu Fang, Ren Dequan

33: CN 31: 2025100874352 32: 2025-01-20

54: A METHOD FOR SEEDLINGS CULTIVATION AND AFFORESTATION OF ATRAPHAXIS BRACTEATA

00: -

A method for seedling cultivation and afforestation of *Atraphaxis bracteata*, comprising the following steps:

S1. Land preparation: preparing a seedbed and covering with a mulch film; S2. Cutting preparation: collecting one-year-old branches of *Atraphaxis bracteata* as a hardwood cutting scion, trimming the scion into a cutting, and then sealing the top of the cutting with wax and inserting the root into a rooting bed for rooting; S3. Cutting: soaking the cutting in a rooting solution before cutting propagation, and pre-making cutting holes on the seedbed, then inserting the soaked cutting into a cutting hole; S4. Seedling management: watering thoroughly once timely after cutting propagation, and then watering once again after 5-10 days, followed by no watering for 20-40 days; S5. Afforestation: performing branch trimming on the branches of the cutting seedlings before afforestation, and then relocating them into planting pits, watering timely, and then watering once again after 5-10 days. The present application effectively solves the technical problems of high seedling prices and high afforestation costs in the application of *Atraphaxis bracteata* in sand fixation and afforestation, which seriously hinders the development and application of the species.



21: 2025/02498. 22: 2025/03/24. 43: 2025/09/26

51: C08J

71: Wuxi University

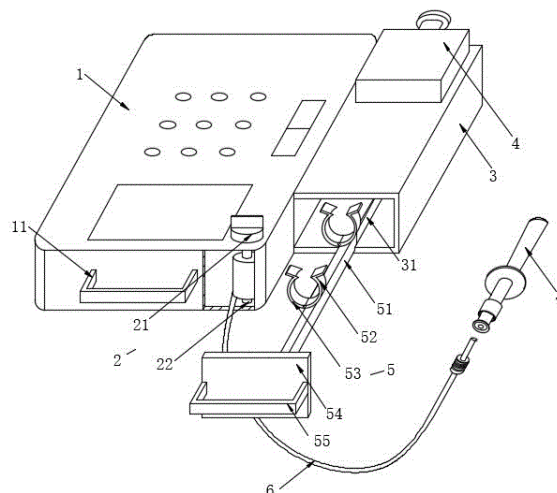
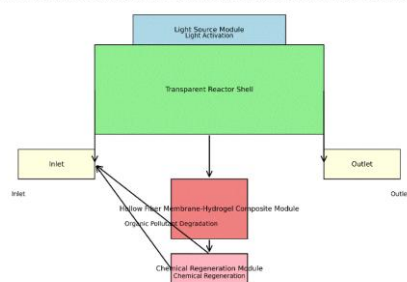
72: Yeli FAN, Jie NIAN, Hongfang GAO, Xiong SUN, Haiyu LI

54: MULTI-FUNCTIONAL PHOTOCATALYTIC REGENERABLE HYDROGEL AND ITS APPLICATION IN HOLLOW FIBER MEMBRANE SUPPORT SYSTEM FOR ORGANIC POLLUTANT REMOVAL

00: -

The disclosure provides a multi-functional photocatalytic regenerable hydrogel and its application in a hollow fiber membrane support system for organic pollutant removal. The hydrogel matrix is composed of a chitosan and polyvinyl alcohol composite, containing nitrogen-doped titanium carbide and reduced graphene oxide as photocatalysts, with silver nanoparticles added to enhance antibacterial properties. Through in-situ formation of a stable hydrogel layer on polyvinylidene fluoride hollow fiber membranes, efficient photocatalytic degradation and adsorption of organic pollutants is achieved. The system design includes a photocatalytic reactor, water inlet/outlet systems, and an optional chemical regeneration module, offering advantages of high efficiency, renewability, and environmental friendliness, suitable for industrial and municipal water treatment applications.

Structure Diagram of Multi-functional Photocatalytic Regenerable Hydrogel Hollow Fiber Membrane System



21: 2025/02511. 22: 2025/03/24. 43: 2025/09/29

51: A61N

71: Wuxi Maternity and Child Health Care Hospital

72: Ailing Chen, Zouqing Luo, Mengyuan Tian

33: CN 31: 202422165744.0 32: 2024-09-04

54: A PORTABLE POSTPARTUM REHABILITATION DEVICE

00: -

The present invention provides a portable postpartum rehabilitation device, which includes an electrical stimulation generator body. The electrical stimulation generator body is connected to an electrode head through a wire, and a storage box is arranged on the side of the electrical stimulation generator body. A storage assembly is provided on the side of the storage box, which includes a sliding rod, a clamping component, a cover plate, and a second handle. The bottom end of the storage box is equipped with a sliding groove, which is slidably connected to the sliding rod. One end of the sliding rod is fixed with the cover plate, and the second handle is fixed on the side of the cover plate. Multiple clamping components are arranged on the surface of the sliding rod, which are used to secure the electrode head. The clamping component consists of a fixed clamping plate and a movable clamping plate. The fixed clamping plate is secured to the side of the sliding rod and is rotatably connected to the movable clamping plate via a torsion spring. When not in use, the electrode head can be placed inside the clamping component and stored inside the storage box. This design facilitates portability and prevents the electrode head from being exposed to the air and contaminated by the external environment when not in use. Additionally, it provides protection for the electrode head.

21: 2025/02512. 22: 2025/03/24. 43: 2025/09/29

51: G01V

71: Kunming University of Science and Technology, Yunnan Geological Survey (Yunnan Academy of Geological Sciences), CHINA COPPER MINERAL RESOURCES COMPANY LIMITED

72: Zewei Pan, Lei Wang, Xintong Qu, Fan Yang, Lianrong Wu, Xiaomin Cao, Xiaohu Wang, Zhong Tang, Yan Dao, Ge Xue, Hui Zhao, Yufeng Deng, Jinhua Wei, Meijuan Ban, Peng Sun, Ye Xiao, Ayi Li, Jingyu Xiao, Yuxi Lu, Chaodian Jiang, Jie Xu, Chuan Ma

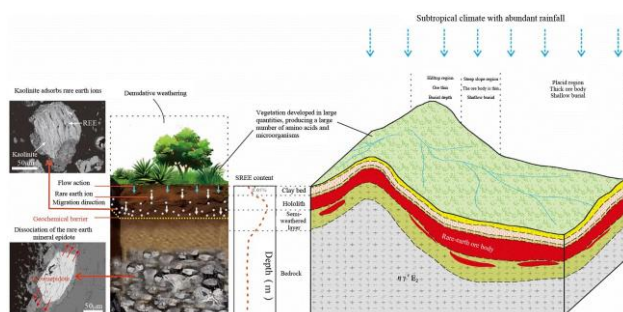
33: CN 31: 202510205780.1 32: 2025-02-24

54: AN ION ADSORPTION TYPE RARE EARTH ORE PROSPECTING METHOD BASED ON A MULTI-COMPONENT COMPOSITE METALLOGENIC MODEL

00: -

The invention discloses an ion adsorption type rare earth ore prospecting method based on multi-component complex metallogenic model, which belongs to the technical field of rare earth ore geological exploration. The invention firstly collects the existing exploration and research data of the known granite weathering crust type rare earth deposit; The basic metallogenic elements of the known granite weathering crust ion-adsorbed rare earth deposit are analyzed. Then the field geological survey and sample collection of the known granite weathering crust ion-adsorbed rare earth deposits are carried out. The metallogenic model elements were determined by analyzing test data and field investigation data. The genesis of the ore deposit is analyzed, the prospecting mark is established, and the multicomponent metallogenic model of the

granite weathering crust type rare earth deposit is constructed. Finally, the prospecting target area is predicted. For the first time, aiming at the known high-altitude granite weathering crust ion-adsorbed rare earth deposit, the invention organically integrates multiple exploration technologies and optimizes the special environment in the high-altitude area to construct a multi-element composite metallogenic model, providing a new theoretical guidance and technical means for the exploration of ion-adsorbed rare earth deposits in the high-altitude area.



21: 2025/02515. 22: 2025/03/24. 43: 2025/09/29
51: A61F

71: The Fourth Affiliated Hospital of Guangzhou Medical University (Guangzhou Zengcheng District People's Hospital)

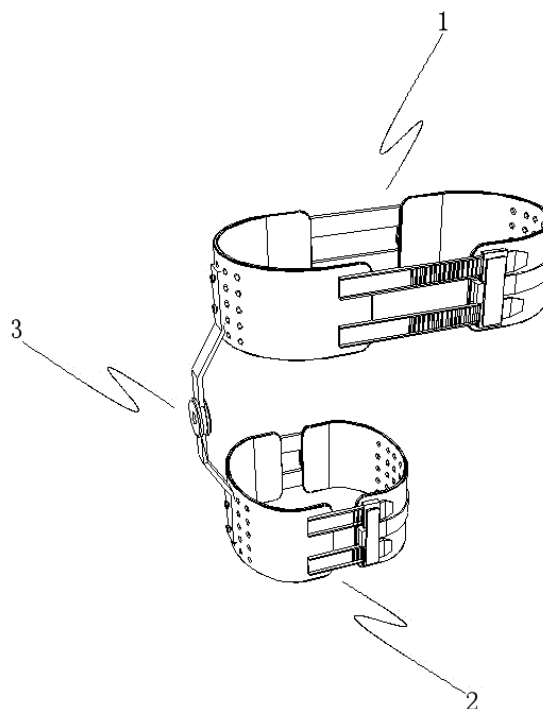
72: Maolin Zhang, Weiqiong Zhang, Xiang Zheng

54: AN ORTHOPAEDIC CLINICAL HIP JOINT RECTIFICATION FIXATOR DEVICE

00: -

The invention relates to the technical field of medical devices, in particular to an orthopaedic clinical hip joint rectification fixator device, which comprises a body fixing sleeve and a thigh fixing sleeve, and a body fixing sleeve and a thigh fixing sleeve are rotatively connected through an external hip rotating joint. The body fixing sleeve and the thigh fixing sleeve comprise a pair of side brackets with a curved plate structure. The front and back ends of the side supporting plate on the left are fixed connected with a pair of hard inserting bars, the front and back ends of the side supporting plate on the right are fixed connected with a pair of hard sockets, the hard inserting bars are inserted between the hard inserting bars and the hard sockets, the hard inserting bars are arranged equidistant on the outside wall, the hard inserting bars are installed in the sliding gear plate, and the reversed teeth are

arranged equidistant on the inner wall of the gear plate, A spring is connected between the outer side wall of the gear plate and the inner side wall of the hard socket, and a pair of gear plates on the same side are connected with the vertical plate arranged on the outer side of the hard socket through the connecting plate. The invention effectively shortens the production cycle, reduces the economic burden of the patient, and is simple to put on and take off.



21: 2025/02545. 22: 2025/03/25. 43: 2025/09/29
51: C02F

71: Dr. Saurabh Yadav, Dr. Suantak Kamsonlian, Dr. Maharshi Yadav, Dr. Rohit Kumar Singh, Dr. Atul Katiyar, Dr. Deepmala Sharma, Dr. Arvind Kumar Gautam, Dr. Sonelal Prajapati

72: Dr. Saurabh Yadav, Dr. Suantak Kamsonlian, Dr. Maharshi Yadav, Dr. Rohit Kumar Singh, Dr. Atul Katiyar, Dr. Deepmala Sharma, Dr. Arvind Kumar Gautam, Dr. Sonelal Prajapati

33: IN 31: 202511004650 32: 2025-01-21

54: AN ELECTROCHEMICAL PROCESS TO MONITOR MEMBRANE FOULING IN BIOREACTORS FOR WASTEWATER TREATMENT

00: -

The present invention discloses an electrochemical process for monitoring membrane fouling in bioreactors for wastewater treatment. Wastewater

collected from a sewage treatment plant is analyzed for key parameters, including pH, salinity, conductivity, ORP, TDS, DO, BOD, and COD. A membrane bioreactor, designed with anodic and cathodic chambers separated by a Nafion membrane, is optimized for wastewater treatment and bioelectricity generation. The anodic chamber includes a carbon sheet, while the cathodic chamber uses a platinum mesh with a phosphate buffer solution. Membrane fouling is monitored using Electrochemical Impedance Spectroscopy (EIS), which measures impedance changes over a five-day period. Impedance data, supported by SEM imaging, confirms fouling progression due to deposition of impurities. This invention provides a reliable method for real-time monitoring of fouling, reducing operational costs and improving bioreactor efficiency.

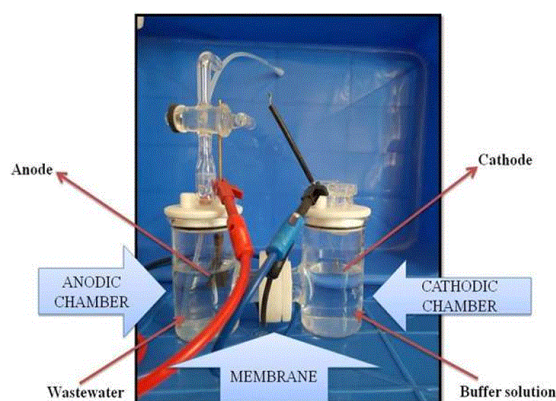


Figure 1: Experimental set-up of EMBR for the treatment of wastewater

21: 2025/02551. 22: 2025/03/25. 43: 2025/09/30

51: G08B

71: Haojing College of Shaanxi University of Science & Technology

72: Hongzhen Zhang, Guibin Zhang, Xia Hua, Shaojie Yang

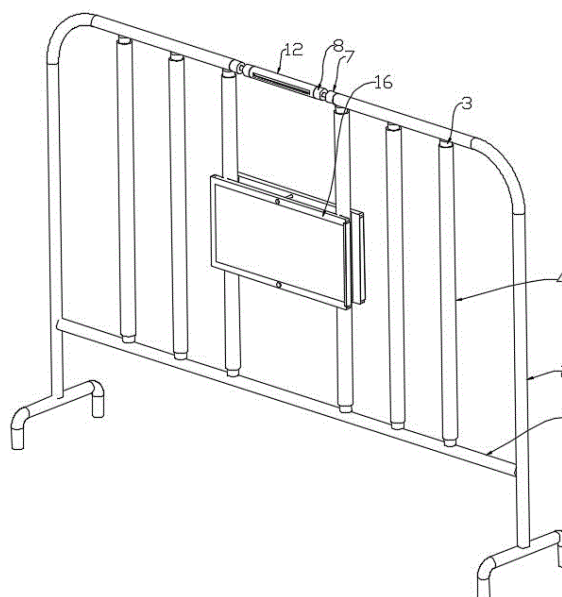
33: CN 31: 202510208909.4 32: 2025-02-25

54: A SAFETY WARNING DEVICE FOR PUBLIC PLACES

00: -

This invention relates to the field of warning frame technology, specifically to a safety warning device for public places. The device includes a crossbeam, with brackets fixed at both ends of the crossbeam. Several vertical rods are fixed between the brackets and the crossbeam, and reflective warning strips are fixed to the surface of the vertical rods. An

installation handle is provided between the tops of the two brackets, and the surface of the installation handle is equipped with a reserved slot. Two warning light tubes are embedded inside the reserved slot, and a protective sleeve is placed around the inside of the reserved slot. The surface of the protective sleeve is provided with a notch. The beneficial effect is as follows: By using a combination of various warning methods such as reflective warning strips, warning light tubes, and warning signage, the warning effect can be significantly improved. The reflective warning strips reflect obvious warning light when illuminated, the warning light tubes provide additional light and warning effects at night or in low light conditions, and the warning signage can visually indicate warning information, ensuring effective warning in various environments.



21: 2025/02552. 22: 2025/03/25. 43: 2025/09/30

51: A47F

71: Haojing College of Shaanxi University of Science & Technology

72: Xia Hua

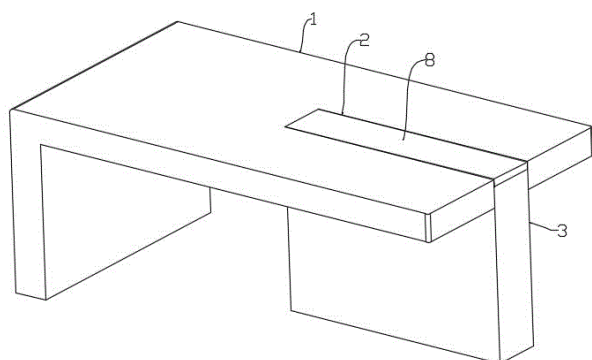
33: CN 31: 202510164151.9 32: 2025-02-14

54: AN ARTIFICIAL INTELLIGENCE MARKETING EXHIBITION STAND

00: -

The invention relates to the technical field of an exhibition stand, in particular to an artificial intelligence marketing exhibition stand, including an

exhibition stand body, one end of the exhibition stand body is provided with a slot, the internal socket of the slot is fixed with a supporting frame, the top surface of the supporting frame is provided with a storage slot i, the internal socket of the storage slot is connected with a display frame, and both sides of the exhibition stand are provided with a reserved slot ii. A tray is fixed in one reserved slot ii, and a display is installed in the other reserved slot ii; The advantages are as follows: The artificial intelligence marketing exhibition stand proposed by the invention realizes the flexible adjustment of the display space through the ingenious design of the electric telescopic rod and the exhibition stand. When the electric telescopic rod is in a shrinking state, the exhibition stand is inserted into the storage slot, and the top surface of the exhibition stand is flat, which can be used for placing artificial intelligence physical products; When the electric telescopic rod is in the extended state, the exhibition stand is lifted and extends out of the storage slot, which can be used to place displays and other artificial intelligence products to meet different display needs.



21: 2025/02553. 22: 2025/03/25. 43: 2025/09/30

51: H04N

71: GUANGDONG OPPO MOBILE
TELECOMMUNICATIONS CORP., LTD.

72: YUE YU, HAOPING YU

33: US 31: 63/260,600 32: 2021-08-26

33: US 31: 63/251,385 32: 2021-10-01

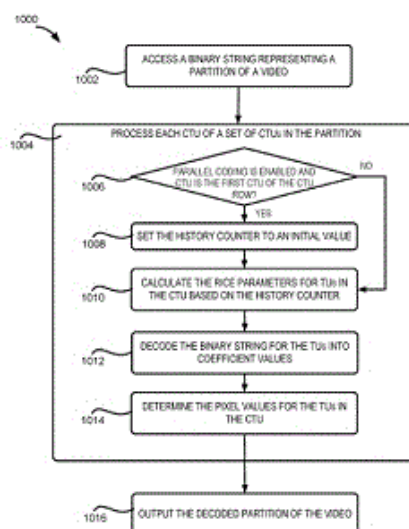
33: US 31: 63/262,078 32: 2021-10-04

54: HISTORY-BASED RICE PARAMETER DERIVATIONS FOR WAVEFRONT PARALLEL PROCESSING IN VIDEO CODING

00: -

A method is disclosed for decoding a video. In some embodiments, the method includes: accessing a

binary string representing a partition of the video, the partition comprising coding tree units (CTUs) forming one or more CTU rows. The method includes, prior to decoding the CTU, determining that the CTU is the first CTU of a current CTU row among the CTU rows in the partition. The process further includes setting a history counter for a color component cldx for calculating Rice parameters to an initial value; decoding the CTU; and outputting a decoded partition of the video comprising the decoded CTUs. The step of decoding the CTU involves: calculating a Rice parameter for a coefficient in a transform unit (TU) of the CTU based on the history counter; decoding a binary string corresponding to the TU in the CTU into coefficient values of the TU based on the calculated Rice parameter; and determining pixel values for the TU in the CTU based on the coefficient values.



21: 2025/02657. 22: 2025/03/27. 43: 2025/10/27

51: E01B

71: China Railway 23rd Bureau Group Co., Ltd,
China Railway 23rd Bureau Group Rail Transit
Engineering Co., Ltd

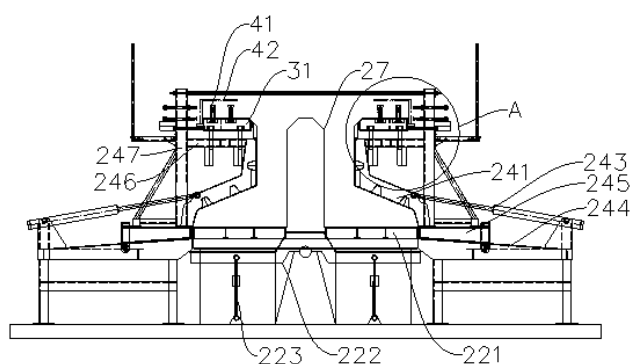
72: Jieyong LI, Bin TAN, Weiwang PAN, Yanlong
LIU, Zhiyong HU, Fei WANG, Hongyi CHEN,
Dayuan LI, Wenpan DENG, Xiaojing LI, Yang
CHENG

33: CN 31: 2024105707135 32: 2024-05-09

54: FORMING SYSTEM AND FORMING METHOD FOR MAGNETIC LEVITATION SPATIAL CURVED BEAM

00: -

Disclosed in the present invention are a forming system and a forming method for a magnetic levitation spatial curved beam. The forming system includes: a side mold assembly; and functional piece template assemblies. Two groups of functional piece template assemblies are correspondingly arranged on two side templates, respectively. Each of the functional piece template assemblies includes a functional piece template for positioning a magnetic levitation functional piece, and at least two groups of vertical adjusting assemblies. Driving ends of vertical adjusting pieces are respectively in movable fit connection with the bottom of the functional piece template and configured to adjust the spatial position and angle of the functional piece template. The magnetic levitation functional piece is positioned and mounted by the functional piece template assemblies, and any adjustment of the spatial angle and position of the functional piece template is achieved by the vertical adjusting assemblies and a lateral adjusting piece, so that the adjusting requirement on the spatial position of the magnetic levitation functional piece on the spatial curved beam can be met, the setting position of the magnetic levitation functional piece can be better matched with the structure of the spatial curved beam, and the forming accuracy of the spatial curved beam can be ensured.



21: 2025/02700. 22: 2025/03/28. 43: 2025/10/08
51: A61K
71: Shandong Agricultural University, Shandong Provincial Agriculture and Rural Development Research Center, Shandong Agriculture and Engineering University
72: Zhaosheng Wang, Wensheng Gao, Xu Qin, Zihui Jia, Guodong Li, Yahui Xu
33: CN 31: 2025102793152 32: 2025-03-11

54: METHOD FOR EXTRACTING POLYPHENOL FROM APPLE POMACE

00: -

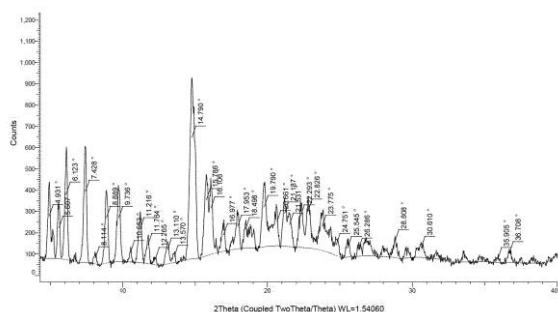
A method for extracting polyphenol from apple pomace includes the following steps: drying and crushing apple pomace to obtain apple pomace powder, mixing the apple pomace powder and an ethanol solution with a volume fraction of 30%-50%, adding polyethylene glycol-4000 to obtain a mixed solution, and performing ultrasonic extraction for 30-50 min to obtain the apple pomace polyphenol crude extract; purifying the apple pomace polyphenol crude extract with macro-porous resin, washing the resin with ultrapure water after adsorption and saturation, until no polyphenol is left on the surface of the macro-porous resin, and then performing elution with an ethanol solution with a volume fraction of 30%-60% to obtain a purified apple pomace polyphenol solution; and concentrating the purified apple pomace polyphenol solution, and performing vacuum freeze-drying on a concentrated solution to obtain extracted apple pomace polyphenol. An ultrasonic extraction method assisted by a surface active agent is used to extract polyphenol compounds from apple pomace, and the crude extract is purified with mixed macro-porous resin, such that the extraction efficiency and purity of the polyphenol are improved, high-efficiency and high-value utilization of the apple pomace is realized, and environmental pollution caused by the apple pomace is reduced.

21: 2025/02712. 22: 2025/03/28. 43: 2025/10/08
51: A61K; C07D; A61P
71: DAEWOONG PHARMACEUTICAL CO., LTD.
72: YOON, Youn Jung, YOON, Hee Kyoong, CHOI, Ji Soo, JI, Hye Young, LIM, Hyun Woo
33: KR 31: 10-2022-0123673 32: 2022-09-28
54: NOVEL CRYSTALLINE FORM OF ENAVOGLIFLOZIN, AND PREPARATION METHOD THEREFOR

00: -

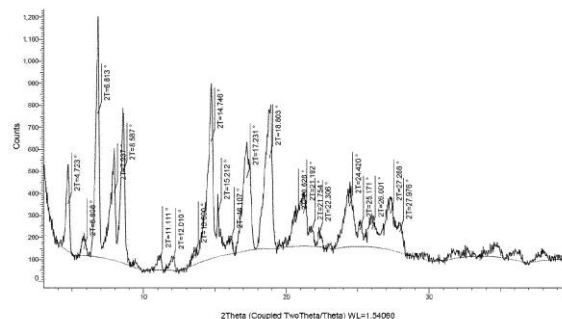
The present invention relates to a novel crystalline form of enavogliflozin, and a preparation method therefor. The novel crystalline form of enavogliflozin, according to the present invention, has thermodynamic stability and a hygroscopic property that are superior to those of a conventionally reported crystalline form of enavogliflozin, and thus has excellent long-term storage and pharmaceutical

stability. In addition, the time to reach Cmax is shorter than that of the conventionally reported crystalline form of enavogliflozin such that drug effects can be rapidly exhibited, and thus the present invention can be effectively used.



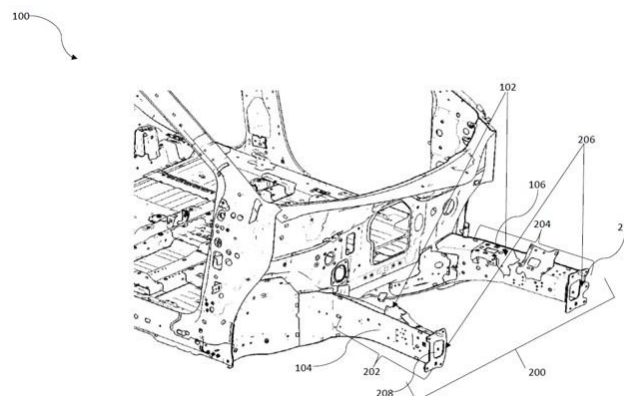
21: 2025/02717. 22: 2025/03/28. 43: 2025/10/08
51: A61K; C07D; A61P
71: DAEWOONG PHARMACEUTICAL CO., LTD.
72: YOON, Youn Jung, YOON, Hee Kyoony, CHOI, Ji Soo, Ji, Hye Young, LIM, Hyun Woo
33: KR 31: 10-2022-0123680 32: 2022-09-28
54: NOVEL CO-CRYSTAL OF ENAVOGLIFLOZIN
00: -

The present invention relates to a co-crystal of enavogliflozin. The enavogliflozin co-crystal of the present invention increased the solubility of enavogliflozin in artificial gastric fluid and artificial intestinal fluid. This improvement in the solubility of enavogliflozin can be particularly advantageous for the development of oral formulations for indications requiring high-dose administration. With the same stability as that of the existing crystalline forms of enavogliflozin, the enavogliflozin co-crystal is also very useful as a raw material for enavogliflozin pharmaceuticals. In addition, the co-crystal of the present invention maintains medicinal efficacy for a prolonged period of time compared to existing crystalline form A due to its longer half-life and higher systemic exposure (AUCinf) and thus can be usefully employed for various indications and/or in the development of formulations that require prolonged efficacy.



21: 2025/02740. 22: 2025/03/31. 43: 2025/10/08
51: B62D
71: MAHINDRA & MAHINDRA LIMITED
72: NIVESH, Dharun, NAMANI, Prasad, RAMARAJ, Rajasekar, ROJESH, CR, K, Krishna Kumar
33: IN 31: 202541005627 32: 2025-01-23
54: A BODY FRAME OF A VEHICLE
00: -

The present disclosure relates to a body frame [100] of a vehicle, comprising: at least one long-rail extension arrangements [200] including a first and second long rail extension arrangements [202, 204] extending from opposite sides thereof, each of the at least one long-rail extension arrangements [200] comprising: a fixed long rail member [102] adapted to support one or more vehicle components thereon; a moving long-rail extension member [206] telescopically and slidably extended from the fixed long-rail member [102], wherein the moving long-rail extension member [206] of each of the at least one long-rail extension arrangements [200] is adapted to be telescopically adjusted relative to the fixed long-rail member [102] of each of the at least one long-rail extension arrangements [200], to vary a length of the at least one long-rail extension arrangements [200] of the vehicle. Refer figures 1 & 2.



21: 2025/02748. 22: 2025/03/31. 43: 2025/10/09

51: B65B

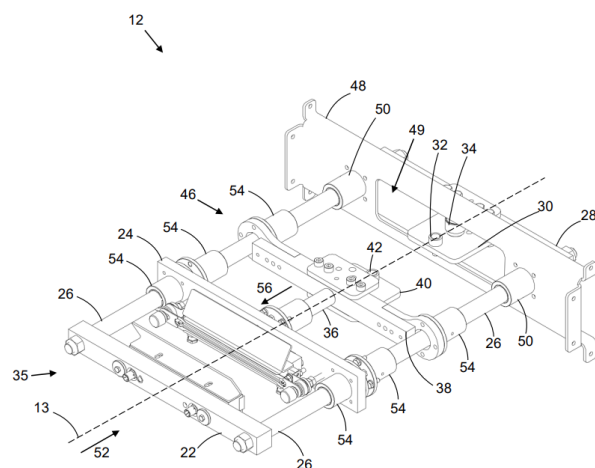
71: THE CHAR ASSET TRUST

72: LE ROUX, Etienne

54: SEALING ARRANGEMENT FOR A FORM FILL SEAL MACHINE

00: -

A sealing assembly (12) for a form fill seal machine (10). The form fill seal machine (10) has a set of jaws (22,24) and sealing elements (66,68) located on an inner surface of one of the jaws. The sealing elements (66,68) are elongate and configured to conduct an electric current between two contact points (69) in order to heat up. The sealing elements (66,68) have intermediate sections with a smaller cross-sectional area to allow the sealing elements to reach the desired temperature faster.



21: 2025/02759. 22: 2025/03/31. 43: 2025/11/03

51: B25J; G21C

71: HAINAN NUCLEAR POWER CO., LTD, ZHEJIANG UNIVERSITY, HEXIN INFORMATION TECHNOLOGY(BEIJING)CO., LTD.

72: ZHANG, Chengliang, JU, Bingfeng, XIA, Hao, HAN, Pei, LIN, Weifeng, CHEN, Jianxin, MENG, Chengshui, WU, Tong, WANG, Qichao, SUN, Anyu, HE, Qiongrui, YU, Zhenpeng, ZHANG, Luyin, WANG, Deying, ZHANG, Chuan

33: CN 31: 202411946175.1 32: 2024-12-27

54: SIX-AXIS ROBOTIC ARM CONTROL METHOD FOR NUCLEAR POWER OIL INJECTION BASED ON DEPTH CAMERA

00: -

The present application provides a method for controlling a six-axis robotic arm for nuclear power oiling based on a depth camera, The method for controlling a six-axis robotic arm for nuclear power

oiling based on a depth camera comprises an environment sensing and modelling step, a target identification and localization step, a path planning and obstacle avoidance step, a motion controlling and execution step, and a real-time monitoring and feedback step. This application is designed to control nuclear power oiling based on a depth camera to solve the problems of low safety, low efficiency and insufficient accuracy in the prior art, and to realise the precise oiling operation of a robotic arm in the complex environment of a nuclear power plant.

21: 2025/02760. 22: 2025/03/31. 43: 2025/10/10

51: B28B

71: China Railway 23rd Bureau Group Co., Ltd, China Railway 23rd Bureau Group Rail Transit Engineering Co., Ltd

72: Jieyong LI, Hongwu XIAO, Yanlong LIU, Bin TAN, Hongyi CHEN, Weiwang PAN, Dayuan LI, Yang CHENG

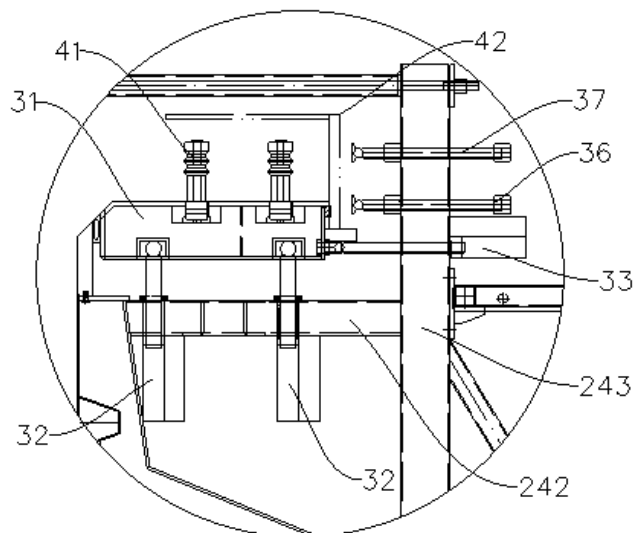
33: CN 31: 2024105707188 32: 2024-05-09

54: SYSTEM AND METHOD FOR AUTOMATICALLY POSITIONING AND ADJUSTING MAGNETIC LEVITATION FUNCTIONAL PIECE OF TRACK BEAM

00: -

Disclosed in the present invention are a system and method for automatically positioning and adjusting a magnetic levitation functional piece of a track beam. The system is configured to position the magnetic levitation functional piece on a forming system for the track beam and includes: a functional piece template, configured to position and mount the magnetic levitation functional piece; a functional piece template adjusting system, configured to adjust the spatial position of the functional piece template on the forming system; a measuring system, configured to measure position data of the functional piece template and the magnetic levitation functional piece on the functional piece template; and a control system, configured to acquire measuring data of the measuring system and control the functional piece template adjusting system according to the position data of the measuring system and target position data of the functional piece template or the magnetic levitation functional piece. According to the present invention, the functional piece template can be rapidly adjusted and positioned, the position accuracy of the

magnetic levitation functional piece on the track beam can be ensured, and the requirement of rapid and accurate formation of a spatial curved beam can be met better.



21: 2025/02790. 22: 2025/04/01. 43: 2025/10/09
51: G08B

71: Zhejiang Wanli University

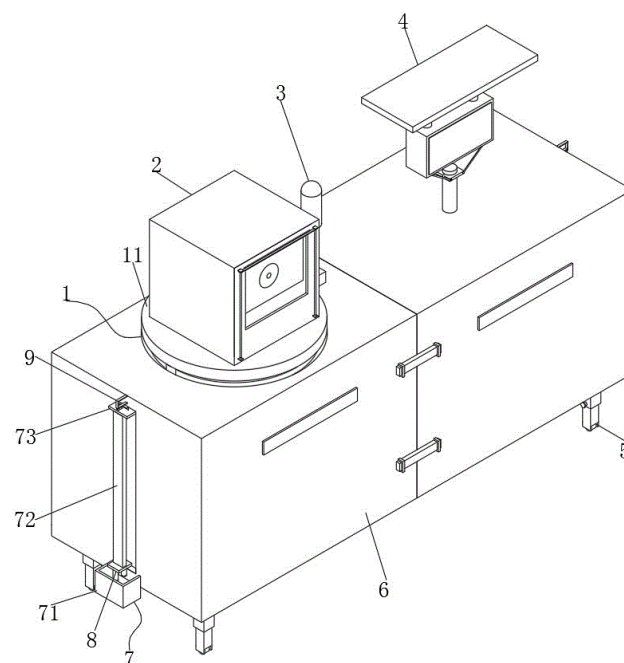
72: Yinuo Zheng, Haowei Pan, Tiantian Zhuo, Yujie Wu, Wen Li, Jin Jin

54: A SAFETY WARNING DEVICE FOR ARTIFICIAL INTELLIGENCE APPLICATIONS

00: -

The present invention discloses a safety warning device for artificial intelligence applications, belonging to the technical field of safety warning. It includes two barricades arranged from left to right. A monitoring mechanism is provided above one of the barricades, and an alarm is installed on one side of the monitoring mechanism. A prompting mechanism is arranged above the other barricade. A handle is fixedly connected to the sidewall of the barricade, and a ground-insertion mechanism is arranged on one side of the barricade, located below the handle. The invention features a movable component that moves the support rod into the bottom box. As the support rod moves, it compresses the connecting spring. When the support rod moves away from the L-shaped rod, the L-shaped rod loses its external fixed force and then moves along the movement slot, driving the moving plate. The moving plate, in turn, drives the ground-insertion mechanism to insert into the ground at the site of use. This design makes it convenient to fix barricades of

different heights into the ground using the ground-insertion mechanism, ensuring the stability of the placement of the two barricades.



21: 2025/02791. 22: 2025/04/01. 43: 2025/10/09
51: G05D

71: Jiangsu Zhongqixin Holdings (Group) Co., Ltd.

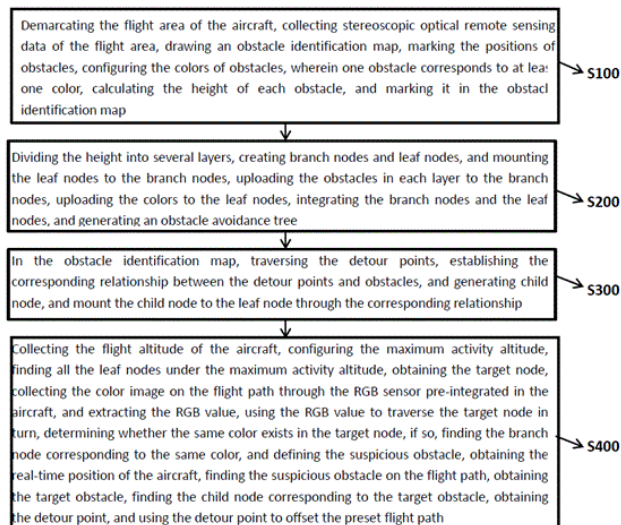
72: ZHANG, Luokang, ZHANG, Zhihao, LI, Lianjie

54: OBSTACLE AVOIDANCE CONTROL METHOD AND SYSTEM FOR AIRCRAFT

00: -

The present invention is applicable to the field of aircraft obstacle avoidance technology, and in particular, relates to an obstacle avoidance control method and system for aircraft, the method comprising: delineating the flight area of the aircraft, collecting stereoscopic optical remote sensing data of the flight area, drawing an obstacle identification map, marking the position of the obstacle, configuring the color of the obstacle, wherein one obstacle corresponds to at least one color, calculating the height of each obstacle, and marking it in the obstacle identification map; dividing the height into several layers, and creating branch nodes and leaf nodes. The present invention can intuitively display the color data of all obstacles and quickly verify the color image by constructing an obstacle avoidance tree, thereby greatly improving the safety of flight while ensuring the normal flight of the aircraft. By extracting RGB values, suspicious

obstacles on the flight path can be verified, flight path planning can be optimized, and flight safety can be further improved.

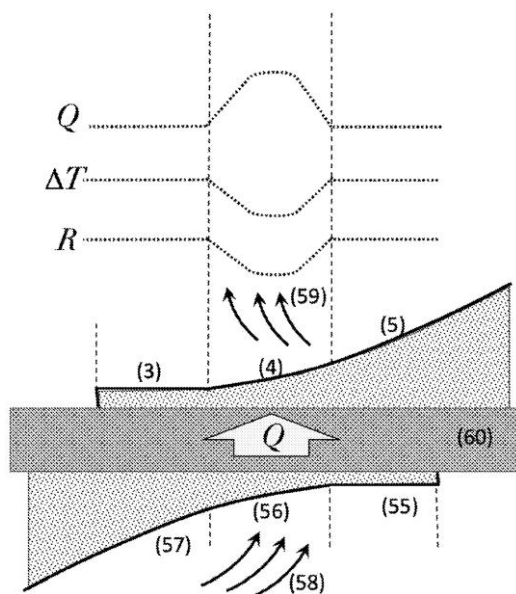


21: 2025/02800. 22: 2025/04/01. 43: 2025/10/23
 51: B01D; C02F; F28D
 71: WGA WATER GLOBAL ACCESS S.L., NOMEN CALVET, Juan Eusebio, HANGANU, Dan Alexandru
 72: NOMEN CALVET, Juan Eusebio, HANGANU, Dan Alexandru

54: MULTIPLE-EFFECT MULTI-TRAIN DESALINATION (MEMTD) DEVICE

00: -

The invention relates to a multiple-effect multi-train desalination (MEMTD) device, based on phase change, which comprises at least two trains of n evaporator-condenser effects, in which each train of effects comprises at least one latent-heat exchanger in each of the evaporator-condenser effects; at least one sensible-heat exchanger (6) between every two train effects, in which sensible heat is exchanged between the brine flow (18) released from the last evaporator-condenser effect of the previous train of effects and incoming water flow (20) provided as feed water (21) to the first evaporator-condenser effect of the following train; and a last condenser (7) that condenses, least partly, evaporated steam (22) from the last evaporator-condenser effect of the last train of evaporator-condenser effects.



21: 2025/02804. 22: 2025/04/01. 43: 2025/10/23
 51: A24B

71: CONTRAF-NICOTEX-TOBACCO GMBH
 72: BELZ, Markus, ELLERICHMANN, Thomas, KÖNIG, Thorsten

33: EP 31: 23197216.7 32: 2023-09-13

54: ORAL PRODUCT COMPRISING THEOBROMINE

00: -

The invention relates to an oral product for delivery of at least one active ingredient comprising or consisting of - a pouch defining a cavity and - a composition comprising the at least one active ingredient and a carrier selected from the group consisting of, cocoa bean, in particular cocoa bean nibs or cocoa bean powder, coffee bean, cellulose, plant fibres, polysaccharides, oligosaccharides, polyols, and mixtures of at least two of the aforesaid carriers, wherein the composition is within the cavity of the pouch and the at least one active ingredient is theobromine. The invention further relates to a method for producing an oral product.

21: 2025/02805. 22: 2025/04/01. 43: 2025/10/23
 51: F42D

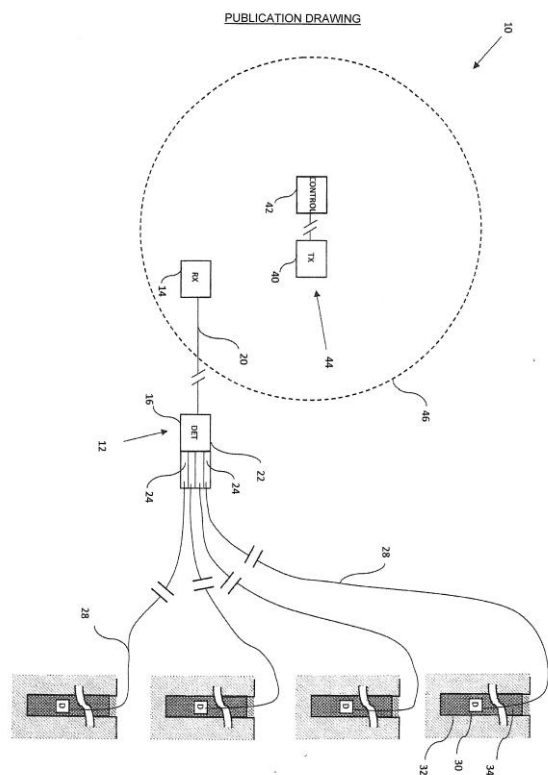
71: DETNET SOUTH AFRICA (PTY) LTD
 72: LIEBENBERG, Abraham Johannes, MEYER, Tielman Christiaan

33: ZA 31: 2022/11088 32: 2022-10-11

54: STARTER DETONATOR

00: -

A detonator assembly wherein an electronic detonator, upon receipt of a wireless signal, is used to initiate several pyrotechnic detonators.



21: 2025/02806. 22: 2025/04/01. 43: 2025/10/23
51: F42B; F42D

71: STEEL KING TRUST

72: FOURIE, Johan Jacques

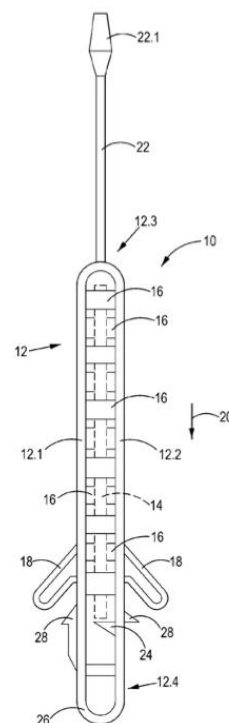
33: ZA 31: 2023/04919 32: 2023-05-03

33: ZA 31: 2023/06800 32: 2023-07-04

54: BLASTING ACCESSORIES

00: -

A detonator protector, which includes an elongated body defining a retaining formation for retaining a detonator in position in the detonator protector, such that the detonator is spaced from walls of a blast hole, when inserted into the hole, and an extraction formation arranged on a rear end of the elongated body, arranged to be engaged by a matched extraction tool, used to extract the elongated body once inserted within the blast hole.



21: 2025/02807. 22: 2025/04/01. 43: 2025/10/23

51: B01D; C02F

71: WGA WATER GLOBAL ACCESS, SL, NOMEN CALVET, Juan Eusebio, HANGANU, Dan Alexandru

72: NOMEN CALVET, Juan Eusebio, HANGANU, Dan Alexandru

33: ES 31: U202231457 32: 2022-09-08

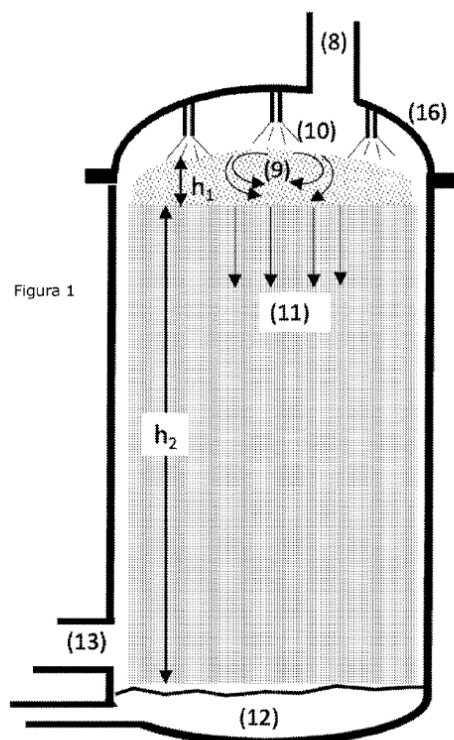
33: ES 31: U202330618 32: 2023-04-13

33: ES 31: PCT/ES2023/070545 32: 2023-09-08

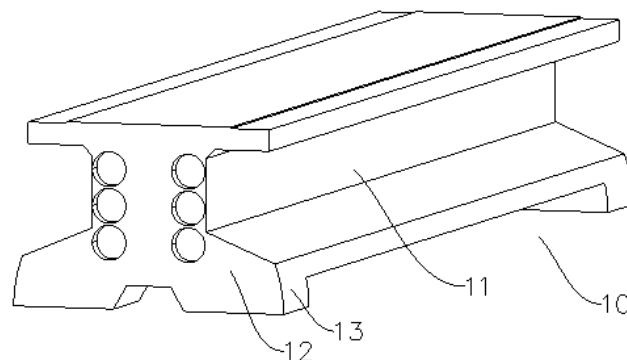
54: GRAVITATIONAL VAPOR COMPRESSOR DEVICE

00: -

The present invention relates to a gravitational vapor compressor (GVC) device comprising at least one vertical compression chamber (16) and a plurality of droplet spray generating nozzles (10) are arranged at the top thereof, which nozzles form a flow of droplets in the water vapor flow along a height h_1 of the vertical housing (16). The speed of the droplets from the droplet beams (10) is adjusted along the height h_1 to the terminal fall velocity in relation to a gas flow, the compression chamber (16) has a height h_2 from which droplets fall at the same or similar terminal velocity inside a water vapor flow, which compresses the water vapor. The gravitational vapor compressor device further comprises a secondary vapor outlet duct (13).



of the cross sections of toes of the supports are set to be arc-shaped, so that the magnetic levitation track beam with the support bottom surfaces with different inclination angles can be conveniently formed through a set of forming system when the track beam is formed, and the forming cost of the magnetic levitation track beam can be reduced.



21: 2025/02809. 22: 2025/04/01. 43: 2025/11/03
51: E01B
71: China Railway 23rd Bureau Group Co., Ltd,
China Railway 23rd Bureau Group Rail Transit
Engineering Co., Ltd
72: Yanlong LIU, Hongwu XIAO, Zhengsong WANG,
Jieyong LI, Yichun WANG, Bin TAN, Zhiyong HU,
Fei WANG, Hongyi CHEN, Weiwang PAN, Dayuan
LI, Yang CHENG, Yong ZHAI

33: CN 31: 2024105707116 32: 2024-05-09
**54: MAGNETIC LEVITATION TRACK BEAM, AND
FORMING SYSTEM AND FORMING METHOD
FOR MAGNETIC LEVITATION TRACK BEAM**

00: -

Disclosed in the present invention are a magnetic levitation track beam, and a forming system and a forming method for the magnetic levitation track beam. The magnetic levitation track beam includes a beam body and supports located at two ends of the beam body, where the beam body and the supports are integrally poured and formed by concrete, a bottom surface of the beam body is suspended and located above bottom surfaces of the supports, and outer contour lines of the cross sections of toes of the supports are arc-shaped. According to the present invention, the supports are arranged at the two ends of the beam body, and outer contour lines

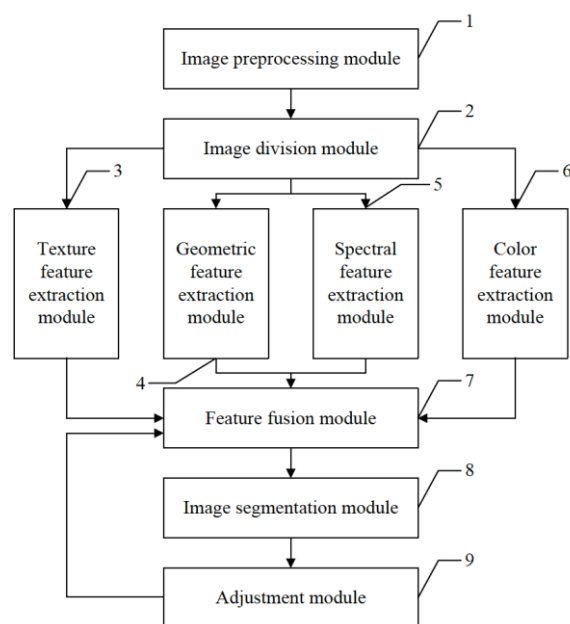
21: 2025/02812. 22: 2025/04/02. 43: 2025/10/23
51: G06K

71: Zhengzhou University of Aeronautics, Henan
Weida Electronic Technology Co., Ltd.
72: WANG, Yongqing, DU, Jiahao, ZHANG, Wei,
WANG, Jia

**54: SEGMENTATION SYSTEM FOR HIGH-
RESOLUTION REMOTE SENSING IMAGE**

00: -

Disclosed is a segmentation system for a high-resolution remote sensing image. The system includes: an image preprocessing module, an image division module, a texture feature extraction module, a geometric feature extraction module, a spectral feature extraction module, a color feature extraction module, a feature fusion module, an image segmentation module and an adjustment module. Firstly, the system denoises an original remote sensing image to obtain a remote sensing image to be processed, and the remote sensing image is divided into a plurality of sub-images. Secondly, texture features, geometric features, spectral features and color features of each sub-image are extracted and fused, such that a comprehensive feature vector of each sub-image is obtained. Finally, the comprehensive feature vector of each sub-image is processed with a support vector data description method, and the remote sensing image to be processed is segmented by means of iterative clustering of the sub-images.



21: 2025/02813. 22: 2025/04/02. 43: 2025/10/23

51: A23K

71: Jiangxi Agricultural University, Institute of Animal Husbandry and Veterinary Science of Jiangxi Academy of Agricultural Sciences

72: Jingjing LU, Zirui WANG, Wenshu LIU, Yuzhu WANG, Yazhou ZHANG, Chuanqi YU

54: A FEED ADDITIVE FOR ENHANCING IMMUNITY OF TRIONYX SINENSIS AND PREPARATION METHOD THEREOF

00: -

The present invention relates to a feed additive for enhancing immunity of *Trionyx sinensis* and application thereof, which belongs to the field of feed additives. The additive is composed of substances with the following weight percentage: gallnut powder: 10%-30%; fructus chebulae powder: 15%-35%; and green tea powder: 20%-40%, the rest are excipients and carriers, wherein the excipients and carriers include but are not limited to one or more of starch, maltodextrin, sucrose, sodium alginate and sodium carboxymethyl cellulose. The feed additive can significantly improve the immunity of aquatic animals, enhance their disease resistance, and have no negative impact on the environment and product safety.

21: 2025/02814. 22: 2025/04/02. 43: 2025/10/23

51: E21F

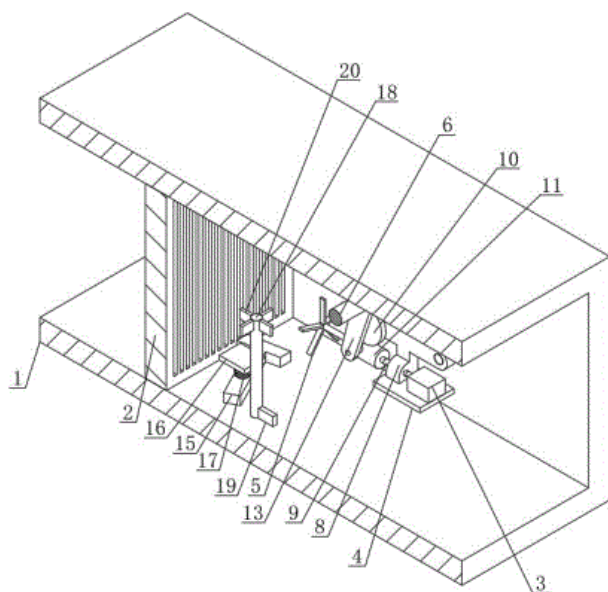
71: CCTEG CHONGQING RESEARCH INSTITUTE, Anhui University of Science and Technology

72: Zhigang ZHANG, Xuezhao XU, Chaoping YUE, Yanbao LIU, Qinghua ZHANG, Bo WANG, Moran ZHU, Haomin DONG, Xijun ZHANG, Fei LIU, Yahu YAO, Shudong HE

54: INTELLIGENT VENTILATION DEVICE FOR COAL MINE

00: -

An intelligent ventilation device for a coal mine is disclosed, which specifically relates to the field of ventilation devices. Including a ventilation box, wherein two sides of the ventilation box are provided with openings; a filter plate, the filter plate is arranged inside the ventilation box; a drive motor, the drive motor is arranged in the ventilation box; a plurality of spiral blades, the plurality of spiral blades are circumferentially distributed on the output shaft of the drive motor; a swing assembly, the swing assembly is arranged in the ventilation box, and the swing assembly is used for driving the motor to swing up and down in the ventilation box; a vibrating hammer, the vibrating hammer is rotatably connected to the inside of the ventilation box; a torsion spring, the torsion spring is connected between the vibrating hammer and the ventilation box; an intermittent push assembly, the intermittent push assembly is used for driving the vibrating hammer to intermittently push the vibrating hammer to swing. Adopting the technical scheme of the present invention, solves the problem that the existing ventilation device for the coal mine is prone to ventilation obstruction due to dust during long-term operation, and improves the service life of the ventilation device.



21: 2025/02815. 22: 2025/04/02. 43: 2025/10/27
51: G01N

71: Xinjiang University

72: LIU Shan, ALIPUJIANG Jierula, HAN Fengxia,
LIU Qing, WANG Weicheng

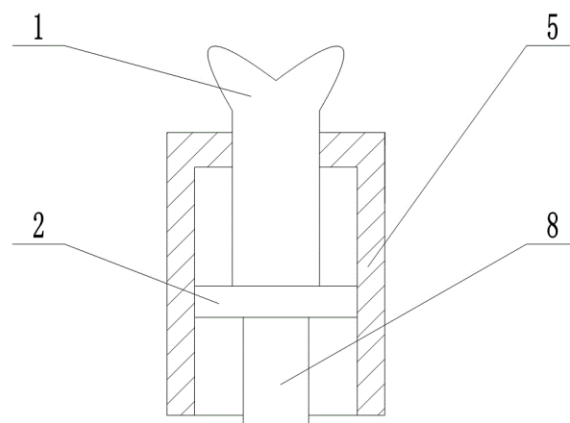
33: CN 31: 2024113127150 32: 2024-09-20

**54: BRACKET-FREE ACOUSTIC EMISSION
SENSOR AUXILIARY FIXING DEVICE AND
USAGE METHOD**

00: -

The invention relates to the technical field of civil engineering, in particular to a bracket-free acoustic emission sensor auxiliary fixing device and a usage method. The device comprises a plurality of housings, wherein through slots are formed on the outer walls of the housings, and connecting parts are symmetrically arranged on both sides of the through slots; two connecting parts on opposite sides of two adjacent housings are connected through connecting members, and the connecting parts are rotatably connected with the outer walls of the housings; the top surfaces of the housings are threaded with a rotating bolt; one end of the rotating bolt extending into the housing is rotatably connected with a support plate; and one end of the support plate facing away from the rotating bolt is provided with a sensor probe. The connecting wire of the sensor probe extends out of the housing through a through slot. According to the invention, the sensor probe can be effectively protected through the housings, and the connecting parts are connected through the connecting members, so that

a plurality of housings can be effectively and stably installed on different components to be detected. The invention does not need a bracket, is convenient to operate and is tightly bound, and avoids the disadvantages of using a metal bracket, a rubber band binding sleeve and the like.



21: 2025/02816. 22: 2025/04/02. 43: 2025/10/27
51: A01N

71: TAI'AN HONGFU CHEMICAL CO., LTD

72: LI Jinxiu, QIAO Jianyong, HAN Tao, LI Mei

33: CN 31: 2025103969301 32: 2025-03-31

**54: EFFICIENT BROAD-SPECTRUM STERILIZING
AGENT, PREPARATION METHOD AND
APPLICATION THEREOF**

00: -

The invention relates to the technical field of sewage treatment, and discloses an efficient broad-spectrum sterilizing agent, a preparation method and an application thereof. The invention relates to an efficient broad-spectrum sterilizing agent, including the following raw materials in parts by mass: 10-20 parts of modified titanium dioxide, 5-10 parts of modified activated carbon, 2-3 parts of dispersant and 50-60 parts of water. The efficient broad-spectrum sterilizing agent provided by the invention the efficient broad-spectrum sterilizing agent provided by the present invention achieves a logarithmic reduction value of up to 5 against *Escherichia coli* and *Staphylococcus aureus*, demonstrating superior sterilization efficacy; and the efficient broad-spectrum sterilizing agent provided by the present invention exhibits prolonged antibacterial activity against *Escherichia coli* for up to 120 d, demonstrating excellent long-term antimicrobial efficacy.

21: 2025/02817. 22: 2025/04/02. 43: 2025/10/23
51: A01C

71: Institute of Grain Crops, Yunnan Academy of Agricultural Sciences, Huize County Agricultural Technology Extension Center, Huize County Malu Township Agricultural and Rural Comprehensive Service Center

72: ZHANG Jianhua, LYU Ying, LI Xiaolin, GUAN Junjiao, YANG Liping, DENG Wei, JI Jiagao, ZHANG Xingfu, LAN Duo, LI Qiongqian, CHAI Hongyan, YAN Lizheng, LI Sheping

54: METHOD FOR IMPROVING FERTILIZER UTILIZATION EFFICIENCY IN LOW LATITUDE AND HIGH ALTITUDE ARID SOIL

00: -

The present invention discloses a method for improving fertilizer utilization efficiency in low latitude and high altitude arid soil, belonging to the technical field of crop planting in low-latitude high-altitude arid regions. Through measures such as soil improvement, fertilizer selection and ratio, fertilization methods, and water management, the invention effectively enhances fertilizer utilization efficiency in low latitude and high altitude arid soil, reduces fertilizer loss, and lowers agricultural production costs. By using a dedicated fertilizer for soil improvement, the invention not only enhances soil fertility but also improves the cold and drought resistance of subsequently planted crops, ensuring their growth in low-latitude high-altitude arid regions. The method is simple, practical, and highly operable, suitable for cultivating various crops in these regions, and has broad potential for promotion and application.

21: 2025/02818. 22: 2025/04/02. 43: 2025/10/23
51: A61B

71: Shanghai University of Medicine and Health Sciences

72: LI, Shuang, HE, Mengting, ZHOU, Mingyan, SHI, Yueyan, ZHANG, Chen, HE, Shuxian, GAO, Yu, GUO, Jiachen

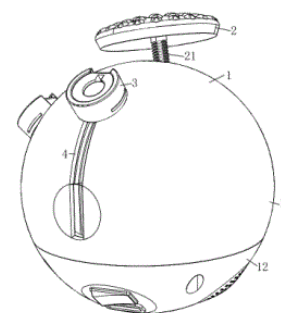
33: CN 31: 202411618956.8 32: 2024-11-13

54: FINGER MUSCLE STRENGTH ASSESSMENT DEVICE CAPABLE OF SLIDING POSITIONING MEASUREMENT

00: -

The present invention relates to a finger muscle strength assessment device capable of sliding positioning measurement, including a housing, a palm rest and finger rests, wherein the function of

the palm rest is to support the palm, so as to facilitate force exerting and fatigue relieve. The palm rest is connected to the housing through a threaded stud, and the threaded stud is used to adjust a spacing between the palm rest and the housing; the housing is provided with slides corresponding to the extension direction of each finger when the palm comes into contact with the palm rest, the finger rests are movably fixed in the slides, and pressure sensors for collecting finger muscle strength are also arranged on the finger rests. The device can be adjusted according to the difference of the patient's hand shape, so that the patient's fingers can comfortably fit.



21: 2025/02819. 22: 2025/04/02. 43: 2025/10/23
51: A23K; C12P; C12R

71: INNER MONGOLIA OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES

72: SU, Shaofeng, WU, Haiqing, QI, Buri, WANG, Xiao, BO, Suling, HAN, Ping'an, GAO, Wa, WANG, Yusheng, WU, Rentana, HAI, Xuran, JIA, Jun, YUE, Linfang, JIA, Xiaoqing, HUANGFU, Jiuru, LIANG, Hongwei, LI, Jian, WU, Yuping, HAO, Zhihua, XU, Chao, HE, Junling, LIU, Lixia, FAN, Jie, ZHANG, Junfang, HAO, Haizhong, WEI, Yulong

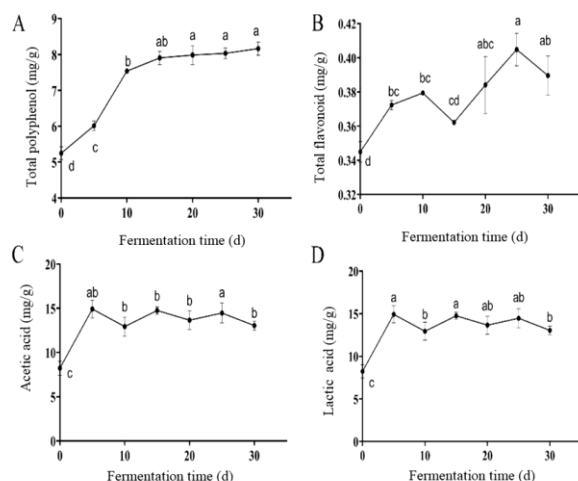
33: CN 31: 2024106618976 32: 2024-05-27

54: PREPARATION METHOD OF ASTRAGALUS MONGHOLICUS SOLID FERMENTATION PRODUCT AND APPLICATION OF ASTRAGALUS MONGHOLICUS SOLID FERMENTATION PRODUCT IN PREPARATION OF FEED ADDITIVE FOR REGULATING GROWTH AND DEVELOPMENT OF WEANED DONKEY FOALS

00: -

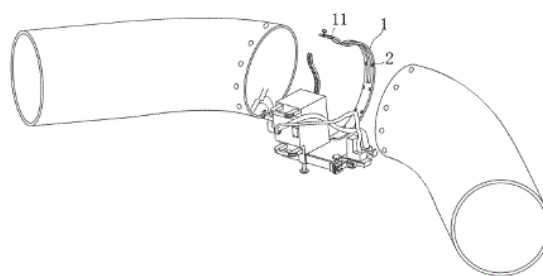
Disclosed is a preparation method of a solid fermentation product of Astragalus and its application in preparing a feed additive for regulating the growth and development of weaned donkey foals, relating to the technical field of fermented Astragalus and donkey feed additive preparation.

The invention reduces the pH value of Astragalus, increases the content of active compounds, and enhances the antioxidant property through solid-state fermentation of *Pediococcus pentosaceus* and *Lactobacillus plantarum*, which is beneficial to the utilization of Astragalus resources. In addition, the addition of Astragalus solid-state fermented by *Pediococcus pentosaceus* and *Lactobacillus plantarum* to the feed improves the growth performance and disease resistance by improving the digestibility of nutrients, serum antioxidant property and immune index, which is helpful for disease prevention in farms and improves production efficiency. At the same time, it can also optimize the structure and function of intestinal microbial communities, improving the intestinal health of donkeys.



21: 2025/02820. 22: 2025/04/02. 43: 2025/10/23
 51: G06T
 71: China Railway Construction Engineering Group Co., Ltd., THE FOURTH CONSTRUCTION CO.,LTD. OF CHINA RAILWAY CONSTRUCTION ENGINEERING GROUP
 72: BIAN Hongming, XIA Qiushi, YUAN Zhi, WU Gangbo, AN Haijian, LI Ping, YAN Gaofeng, XIE Lingguang, WU Gang, ZHANG Wei, JIANG Yingying, ZHANG Qiao
 33: CN 31: 202410689436.X 32: 2024-05-30
54: AUTOMATIC CIRCUMFERENTIAL WELDING DEVICE FOR PIPELINE AND CIRCUMFERENTIAL WELDING METHOD
 00: -
 Disclosed are an automatic circumferential welding device for a pipeline and a circumferential welding

method, which relates to the technical field of pipeline welding. The automatic circumferential welding device for a pipeline includes a welding track and a motor assembly for providing traveling power for the welding track, where two free ends of the welding track extend along an outer wall of a pipeline and are brought together to be wound around the outer wall of the pipeline in an annular structure. The motor assembly includes a power roller for providing power for the welding track to roll along the outer wall of the pipeline, and a plurality of rollers are rotatably embedded in a side wall of the welding track facing the pipeline.



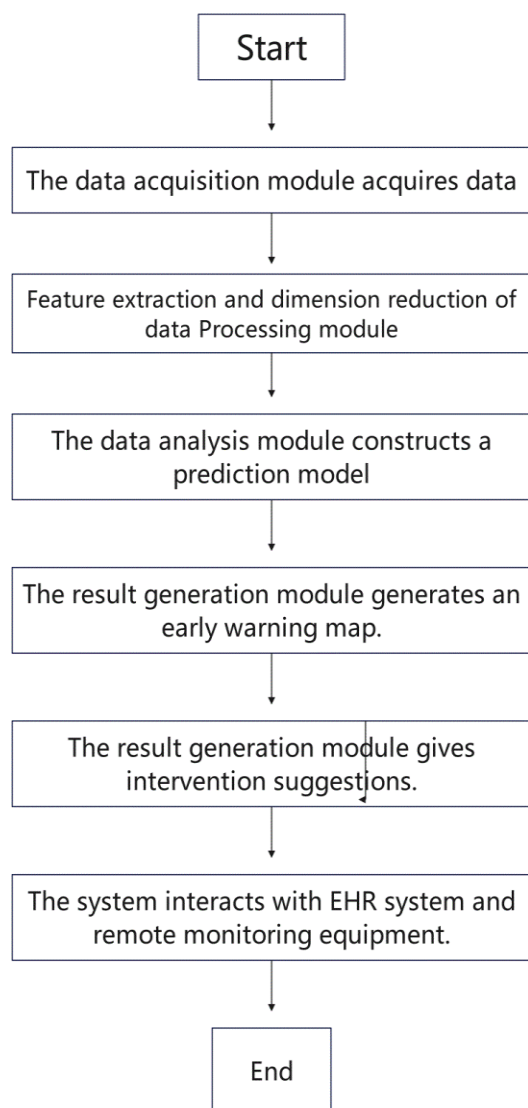
21: 2025/02823. 22: 2025/04/02. 43: 2025/10/27
 51: G06F
 71: Changchun University of Chinese Medicine
 72: ZHU, Tonggang, WANG, Lu, PAN, Hao, LI, Minglin

54: AN EARLY PREDICTION SYSTEM FOR COPD BASED ON DATA ANALYSIS

00: -

The present invention discloses an early prediction system for COPD based on data analysis, referring to the field of disease prediction systems, including data acquisition, processing, analysis, and result generation modules. The data acquisition module obtains the data of chest quantitative CT imaging, lung function dynamic monitoring and respiratory symptoms questionnaire; the data processing module uses LASSO regression algorithm feature extraction and principal component analysis; the data analysis module constructs the risk prediction model based on random forest algorithm, integrates multiple parameters to generate individualized risk score; the result generation module outputs three-level warning map and gives intervention suggestions. The system also interacts with the EHR system and the remote monitoring equipment through the API interface. This system integrates

multi-source data and advanced algorithms to accurately predict the risk of disease onset, and displays the early warning levels via an intuitive three-dimensional heatmap, which provides a basis for clinical decision-making, and contributes to early intervention and delay of disease progression.



21: 2025/02825. 22: 2025/04/02. 43: 2025/10/23
51: B01F

71: LIAONING INSTITUTE OF SCIENCE AND TECHNOLOGY

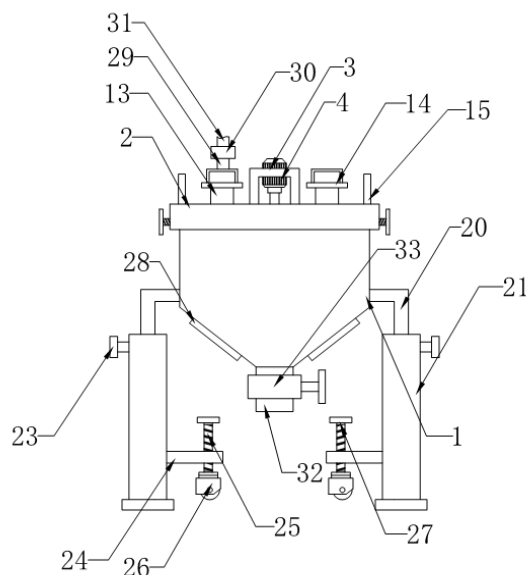
72: ZHANG, Ying, LIU, Jiuyu, ZHANG, Huiming, ZHANG, Haibo

54: NANOZYME REACTOR

00: -

The present invention relates to a nanozyme reactor in the field of stirring reaction devices. It comprises a stirring barrel and a barrel cover equipped with a bi-

directional motor mounted via a fixing frame. A rotating rod extends through the barrel cover, with a fixing element on its wall. Stirring rods are fixed on both sides of the element, each fitted with a scraper that contacts the barrel's inner wall. A fixing rod is attached below the stirring rod, and charging ports are provided on the barrel cover. The coordinated action of the motor, rotating rod, fixing element, and stirring rods enables effective mixing. The scrapers clean the inner barrel wall during rotation, removing adhesive liquid and reducing manual cleaning. Threaded holes and pins allow easy assembly and disassembly of the barrel cover, further minimizing maintenance efforts. The invention improves efficiency in nanozyme reactions and reduces operational workload.



21: 2025/02854. 22: 2025/04/03. 43: 2025/10/27
51: G01N

71: Xinjiang University

72: ALIPUJIANG Jierula, LIU Qing, HAN Fengxia, DING Shilong

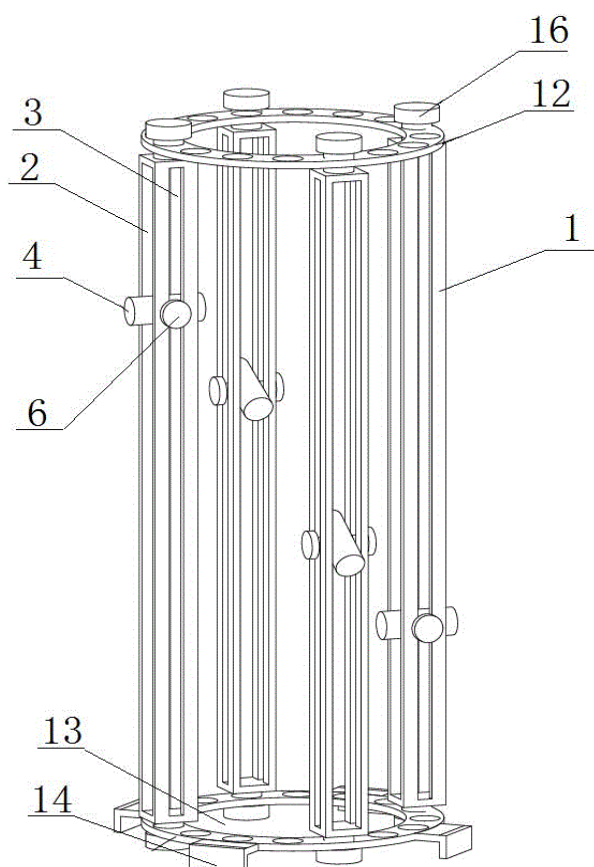
33: CN 31: 2024113126957 32: 2024-09-20

54: MULTI-DIRECTIONAL ADJUSTABLE FIXING DEVICE FOR ACOUSTIC EMISSION SENSORS

00: -

The present invention discloses a multi-directional adjustable fixing device for acoustic emission sensors, which belongs to the technical field of sensor fixing devices. The device includes: a support panel assembly; multiple slide rails, arranged on the support panel assembly and surrounding the test

specimen, the slide rails are provided with a first through slot and a second through slot along the height direction, with the first through slot and the second through slot being perpendicular to each other; a fixing mechanism, which includes a sleeve slidably connected to the first through slot, the sleeve is used to accommodate the acoustic emission sensor, and the side wall of the sleeve is provided with a positioning assembly detachably connected to the slide rail; a length adjustment mechanism, arranged on the sleeve and connected to the acoustic emission sensor, the length adjustment mechanism is used to adjust the length of the acoustic emission sensor extending out of the sleeve. The invention enables the acoustic emission sensors to be arranged around the side walls of the test specimen via the slide rails. The height and pitch angle of the sensors can be adjusted, allowing the sensors to closely adhere to the side walls of the specimen for detection, significantly improving ease of use.



21: 2025/02855. 22: 2025/04/03. 43: 2025/10/23
51: E04B

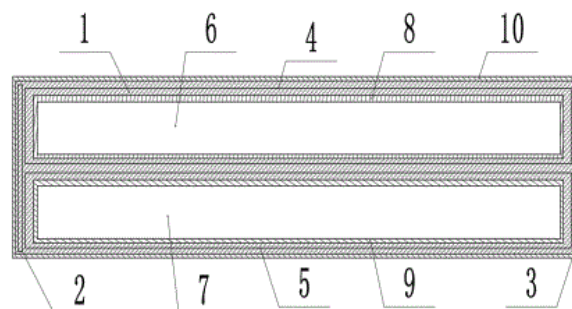
71: Shandong Hi-speed Urban and Rural Development Group Co., Ltd, Shandong University of Technology

72: ZHAI, Haoran, LIU, Xin, YU, Libin, CHANG, Ping, SUN, Depeng, CHEN, Danning, WANG, Mingyue, QU, Jianhao, GAO, Yuan, CAO, Xinhai, HUANG, Zhanfang

54: PREFABRICATED WALL PANEL

00: -

Disclosed is a prefabricated wall panel, including an aerated concrete hollow wall panel, a first steel wire mesh, a second steel wire mesh, a first steel mesh cylinder, a second steel mesh cylinder, a first plant fiber cement core panel, and a second plant fiber cement core panel. The first steel wire mesh is fixedly arranged in one end of the aerated concrete hollow wall panel. The second steel wire mesh is fixedly arranged in the other end of the aerated concrete hollow wall panel. A first cavity and a second cavity are provided inside the aerated concrete hollow wall panel. The first plant fiber cement core panel is fixedly arranged in the first cavity. The second plant fiber cement core panel is fixedly arranged in the second cavity.



21: 2025/02856. 22: 2025/04/03. 43: 2025/10/23
51: H02S

71: Taicang Jinlin Technology Co., Ltd

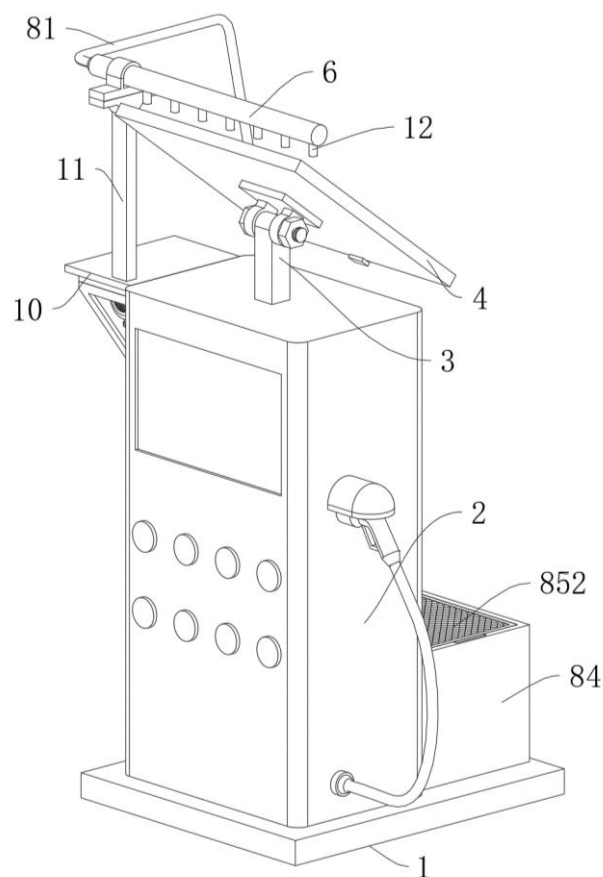
72: Ruiqiu Du

54: OUTDOOR OPTICAL STORAGE AND CHARGING DEVICE

00: -

The present invention discloses an outdoor light storage and charging device, which comprises a bottom plate, a charging pile, an adjusting frame, a mounting frame and a photovoltaic panel, wherein the charging pile is fixedly mounted on the front side of the top of the bottom plate. By providing the flushing pipe and the flushing hole, the water supply

mechanism conveys water to the flushing pipe, and the water is sprayed out from the flushing holes distributed at equal intervals from the surface of the flushing pipe to flush the top of the photovoltaic panel, thereby greatly improving the cleaning efficiency. In the large charging station, the cleaning time can be greatly shortened, the reduction of the power generation efficiency of the photovoltaic panel caused by cleaning is reduced, the energy supply of the charging station is guaranteed, the automatic cleaning structure is not arranged, in the large charging station, the number of solar panels is large, the consumed time of cleaning one solar panel is long, and the overall cleaning work consumes a large amount of time.



54: TEMPERATURE EFFECT SIMULATION METHOD AND SYSTEM FOR ULTRA-HIGH BUILDINGS

00: -

The invention discloses a temperature effect simulation method and system for ultra-high buildings, and the method includes the steps: building a three-dimensional structure model of an ultra-high-rise building through a finite element method, and generating an initial model through preset building geometric parameters and material attributes; acquiring solar radiation data and a building orientation, calculating the illumination intensity of each unit on the surface of the building, and determining the unit distribution of the building female surface and the male surface in combination with a preset solar radiation absorption coefficient; and calculating the temperature field distribution of the building structure under the thermal boundary condition through a finite element solver; calculating the stress and strain distribution of the concrete structure under the temperature effect based on the temperature value of each unit in combination with the concrete shrinkage and creep model to obtain a temperature effect simulation analysis result; and combining the temperature effect analysis result with the structural mechanical model to generate a temperature effect evaluation report. The structure reliability and the service life of the super high-rise building are effectively improved.

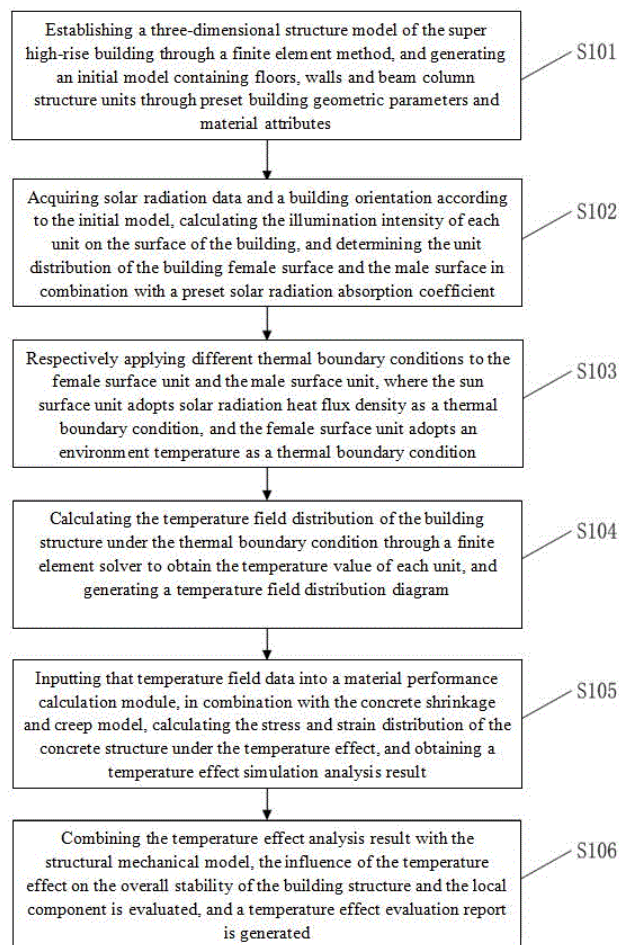
21: 2025/02857. 22: 2025/04/03. 43: 2025/10/27

51: G06F

71: China Railway 21st Bureau Group First Engineering Co., Ltd.

72: WANG Shouxi, LI Zhancheng, QIAO Liang, MAO Weihong, MA Bo, ZHOU Dejing, CHEN Junxiang, WANG Xun, LEI Qiang, LEI Yingying, WANG Bin

33: CN 31: 2025101313552 32: 2025-02-06



21: 2025/02858. 22: 2025/04/03. 43: 2025/10/23
 51: C09K; C23F
 71: LIAONING PETROCHEMICAL UNIVERSITY, CHINA UNIVERSITY OF PETROLEUM(BEIJING)
 72: ZHAO, Xiaolong, SONG, WeiYu, YANG, Jiang
54: COMPOUNDED OIL FIELD CORROSION INHIBITOR AND PREPARATION METHOD THEREOF

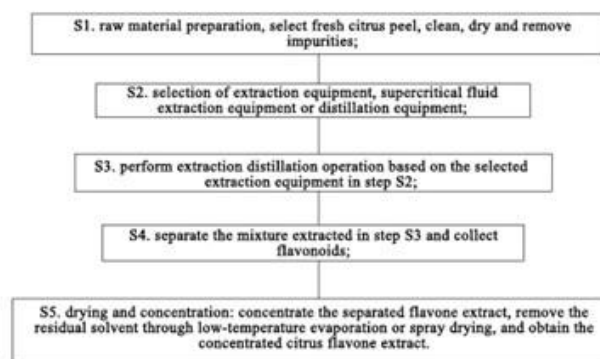
00: -
 A compounded oil field corrosion inhibitor and preparation method thereof. Two sets of stainless steel grinding tanks are selected, a stainless steel ball is added to each of the tanks; Then add potassium tert butoxide to the stainless steel grinding tank, Sigma-Aldrich, reagent grade>98%, 953 milligrams, 8.5 millimoles, 0.85 equivalents; Then add ethyl benzoate to the stainless steel grinding tank, AlfaAesar, 99%, 1.71 mL, 12 mmol, 1.2 equivalents; Then add morpholine to the stainless steel grinding tank; In the present invention, potassium tert butoxide is added to the stainless steel grinding tank, Sigma-Aldrich, reagent

grade>98%, 953 milligrams, 8.5 millimoles, 0.85 equivalents; Then add ethyl benzoate to the stainless steel grinding tank, AlfaAesar, 99%, 1.71 mL, 12 mmol, 1.2 equivalents; Then add morpholine to the stainless steel grinding tank, distill it with KOH and store it on 4 Å MS at 0.86 mL, 0.87 g, and 10 mmol.

21: 2025/02859. 22: 2025/04/03. 43: 2025/10/23
 51: A23L; A61K

71: ZHEJIANG CITRUS RESEARCH INSTITUTE
 72: ZHANG, Weiqing, LIN, Mei, YAO, Zhoulin, FENG, Xianju, WANG, Tianyu, LI, Wei
54: METHOD FOR EXTRACTING CITRUS FLAVONOID

00: -
 The present invention belongs to the technical field of extracting citrus flavonoids, specifically a method for extracting citrus flavonoid, comprising S1. raw material preparation, select fresh citrus peel, clean, dry and remove impurities, S2. selection of extraction equipment, supercritical fluid extraction equipment or distillation equipment, S3. perform extraction distillation operation based on the selected extraction equipment in step S2, S4. separate the mixture extracted in step S3 and collect flavonoids, S5. drying and concentration, the target component can be extracted by solvent dissolution, and then combined with liquid-solid extraction. By mechanically crushing or soaking the solid material, the contact area of the substance can be increased, thereby improving the contact efficiency between the solvent and the plant material and further enhancing the overall extraction effect.



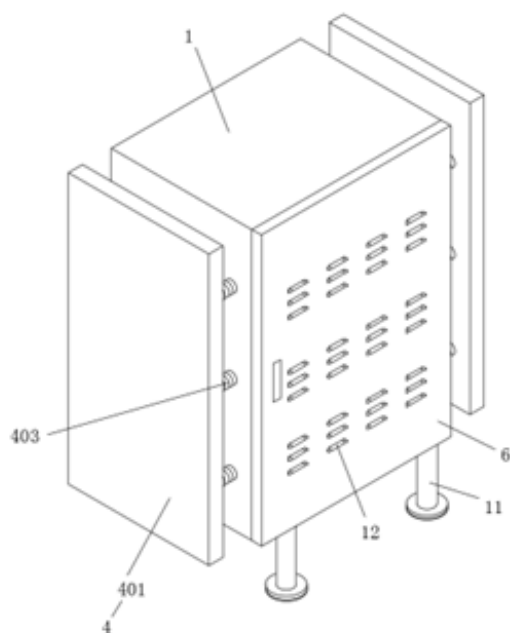
21: 2025/02860. 22: 2025/04/03. 43: 2025/10/23
 51: G06F
 71: XINYU UNIVERSITY

72: LIU, Jinhua, LIU, Xueping, LI, Shiwen, LIU, Mingqi, LUO, Haiyong

54: COMPUTER DATA MINING DEVICE BASED ON BIG DATA

00: -

A computer data mining device based on big data, comprising a cabinet, the sides of the inner cavity of the cabinet are fixedly connected, and the top of the installation components is equipped with data mining device, the two sides of the cabinet are equipped with protective components. In the present invention, by setting installation components, data mining device can be limited and fixed, increasing stability inside the cabinet. By setting protective components, the cabinet can be protected, buffering the impact force and reducing the impact of external forces on the cabinet, thereby protecting the internal data mining device and further improving the stability of the data mining device during operation. By setting heat dissipation components, it can cooperate with ventilation holes to accelerate the circulation of air inside the cabinet, thereby improving the heat dissipation effect of the data mining device during operation and extending its service life.



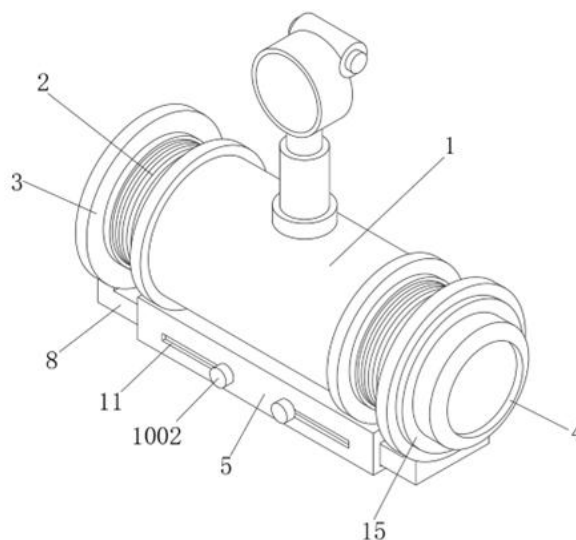
21: 2025/02861. 22: 2025/04/03. 43: 2025/10/23
51: G01F
71: INSTITUTE OF WATER RESOURCES FOR PASTORAL AREA, MINISTRY OF WATER RESOURCES

72: JIAO, Rui, LIU, Tiejun, XU, Xiaomin, LI, Kaixuan, LIANG, Wentao, HAN, Zhenhua

54: PIPELINE CONNECTION DEVICE FOR WATER BALANCE TESTING

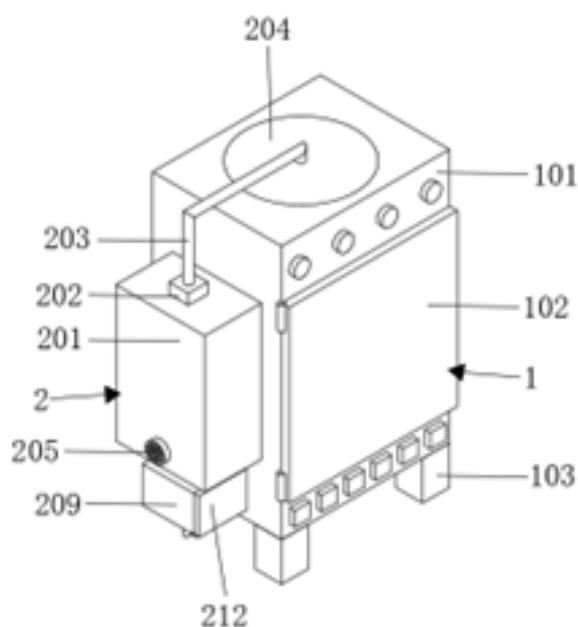
00: -

A pipeline connection device for water balance testing, comprising a flow meter body. The ends of the flow meter body are connected with expansion pipes. One end of the expansion pipe is connected with a squeeze plate, one side of the squeeze plate is connected with a support inner pipe. The bottom of the flow meter body is connected to a positioning frame, and vertical plates are connected on both sides between the top and bottom of the positioning frame cavity. The device facilitates the quick squeeze connection and installation of the flow meter body and external pipelines by setting up expansion pipes, squeeze plates, support inner pipes, positioning frames, vertical plates, positive and negative threaded rods, L-shaped plates, and driving components. Simultaneously, the connection spacing is adjusted and fine tuned. By setting up limit components, the connection between the L-shaped plate and the positioning frame can be limited.



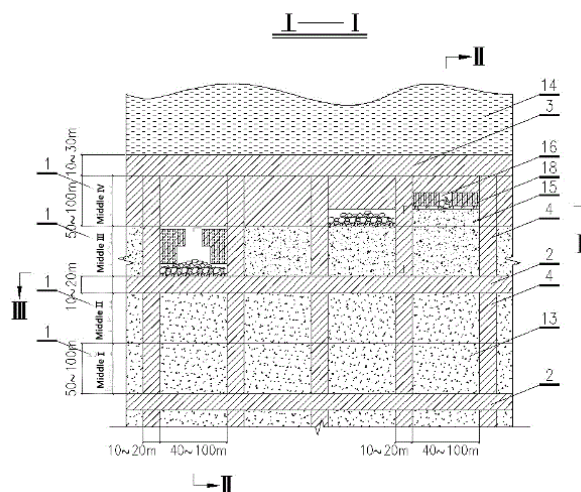
21: 2025/02862. 22: 2025/04/03. 43: 2025/10/23
51: H05K
71: ZHENJIANG TECHNICIAN COLLEGE JIANGSU PROVINCE
72: ZHANG, Meng, XU, Xue
54: EFFICIENT HEAT DISSIPATION AUTOMATION ELECTRICAL CONTROL BOX
00: -

An efficient heat dissipation automation electrical control box, comprising an electrical control box mechanism which comprises a control box body, one side of which is provided with a heat dissipation mechanism comprising a cooling box and a drying box, the top of the cooling box includes a fan. By setting up the electrical control box mechanism, the normal function of the control box is ensured. By setting up a heat dissipation mechanism, the cooling liquid inside the cooling box can be cooled by opening the semiconductor cooler, and the air inside the control box can be circulated and cooled by opening the fan, achieving good heat dissipation effect. By setting up a placement mesh box, a drying bag can be placed inside the placement mesh box to facilitate dehumidification of the air inside the control box during heat dissipation, avoiding short circuits or aging of electrical components caused by moisture.



21: 2025/02866. 22: 2025/04/03. 43: 2025/10/23
51: E21C
71: SINOSTEEL MAANSHAN GENERAL
INSTITUTE OF MINING RESEARCH CO., LTD
72: LIU Peizheng, HU Yongquan, WANG Jing,
HONG Dunmin, ZHU Shilin, XIONG Xianliang
33: CN 31: 202410780452X 32: 2024-06-18
**54: A SAFE AND EFFICIENT MINING METHOD
FOR MEDIUM-THICK TO THICK LARGE ORE
BODIES UNDER THE QUATERNARY SYSTEM**
00: -

The present invention discloses a safe and efficient mining method for a medium-thick to thick large ore body under the Quaternary system, in which the middle section I, middle section II, middle section III and middle section IV are divided along the vertical direction of the ore body from the bottom to the top; and a roof-protecting pillar/rock pillar (3) is left at the top of the middle section IV; Leave horizontal isolation pillars (2) of a certain thickness in every 2 to 3 middle sections (1); leave vertical inter-pillars (4) at certain intervals in the middle sections (1); and arrange chute shafts (12) at intervals of 40 to 150m on the side of the exit roadway (11); Divide 3 to 5 sectional quarries (15) within the middle section IV, arrange rock-cutting tunnel (17) at the bottom of the sectional quarries (15), form a central cutting channel (16) in the middle of the rock-cutting tunnel (17), and arrange a fan-shaped medium-depth hole (18) in the rock-cutting tunnel (17). Compared with the traditional solution, the production capacity of the quarry has been increased by more than 50%, the mining cost per ton of ore has been reduced by nearly 20%, with remarkable economic benefits, and at the same time the safe mining of medium-thick to thick large ore bodies under the Quaternary System has been realized.

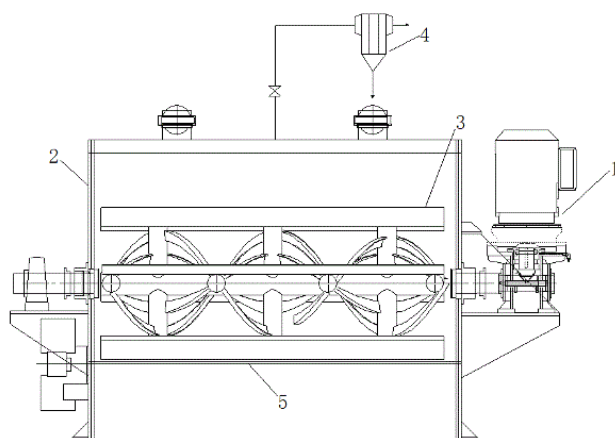


21: 2025/02867. 22: 2025/04/03. 43: 2025/10/23
51: B28C
71: SINOSTEEL MAANSHAN GENERAL
INSTITUTE OF MINING RESEARCH CO., LTD
72: YANG Xiaojun, XU Xiuping, HUA Shaoguang,
LIU Long
33: CN 31: 2024100597213 32: 2024-01-16

54: A KIND OF DOUBLE-AXIS TILLING MIXER FOR HOMOGENIZATION OF POWDER WITH LARGE DENSITY DIFFERENCE

00: -

The present invention discloses a double-axis tilling mixer for homogenization of powders with large density difference, relates to the technical field of mixing materials for powder engineering, and comprises a motor driving device, an w-type mixing cylinder, a stirrer, a pneumatic pressure balancing device and a discharging device. Said motor drive device is installed in the w-type mixing cylinder on one side of the head of the fixed bracket, the two output shafts of the motor drive device through the coupling or key pin are connected with the main shaft of the agitator; said agitator is installed in the w-type mixing cylinder; Said air pressure equalizing device is mounted on the air pressure equalizing port of the cover of the w-type mixing cylinder; The said discharging device is installed at the bottom of the w-type mixing cylinder, the U-shaped bottom of the w-type mixing cylinder is opened with a large warehouse door, the opening and closing of each warehouse door is controlled by two electric or pneumatic actuators for discharging materials. It adopts the tilling type mixing method, without the need for higher throwing and turning space, greatly improving the material loading rate and overcoming the problem of floating light components in large density difference powder which leads to the difficulty of mixing uniformly.



72: LI Gang, XU Xiuping, WU Jiangyou, JIA Mintao, WANG Shuang, LI Xiaojian, ZHOU Wei

33: CN 31: 2024101872472 32: 2024-02-20

54: A COMBINED DUST REDUCTION SYSTEM FOR A METAL MINE UNLOADING STATION AND A METHOD OF USING THE SAME

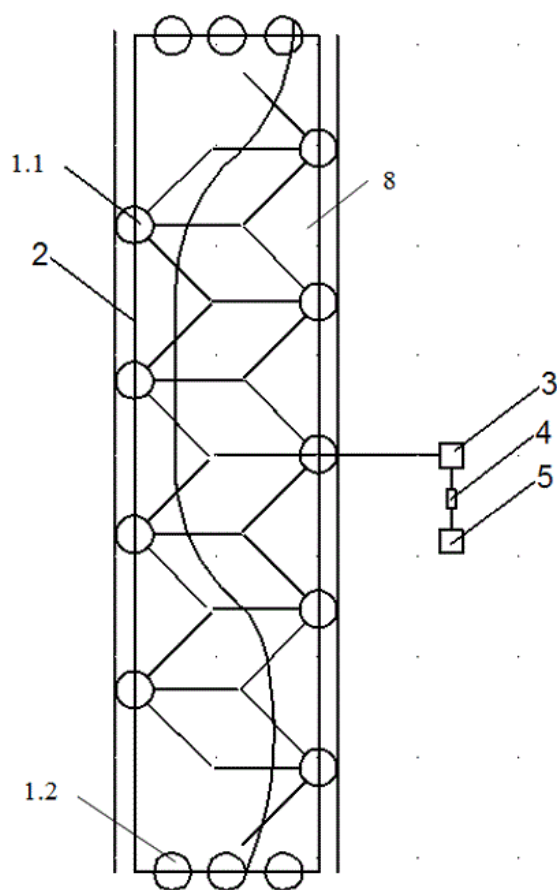
00: -

The present invention discloses a joint dust reduction system for a metal mine unloading station and a method of using the same, the joint dust reduction system consists of a high-pressure water flushing device for dust collection on the roadway wall of the unloading station, a spray sprinkler moisturizing device for the roadway floor of the unloading station, and a bidirectional high-pressure spraying device for reducing dust on the floor of the ore car of the unloading station in combination. The use of unloading station roadway wall area dust high-pressure water flushing device along the unloading train forward direction of high-pressure water on the roadway for manual flushing, the use of unloading station roadway floor spraying sprinkler moisturizing device on the roadway spray sprinkler moisturizing, the use of unloading station ore car floor two-way high-pressure spraying dust reduction device on the unloading station unloading of the mine dust generated by the closure of the pit, which can reduce the amount of water consumption and effectively avoid the unloading of the pit water is too large to stick clogging, improve the applicability of the site to achieve on-demand spray dust. It can reduce water consumption and effectively avoid sticking and clogging due to excessive water in the unloading pit, improve the applicability of high-pressure spraying dust-reducing measures on site, and realize the on-demand spraying of high-pressure spraying device; the use of high-pressure water flushing unloading station roadway wall area dust, unloading station roadway floor spray sprinkler moisturizing, comprehensive dust suppression, dust control effect is remarkable, energy saving effect is obvious.

21: 2025/02868. 22: 2025/04/03. 43: 2025/10/23

51: F04C

71: SINOSTEEL MAANSHAN GENERAL
INSTITUTE OF MINING RESEARCH CO., LTD



21: 2025/02869. 22: 2025/04/03. 43: 2025/10/23

51: C09K

71: SINOSTEEL MAANSHAN GENERAL INSTITUTE OF MINING RESEARCH CO., LTD, SINOSTEEL MAANSHAN NEW MATERIAL TECHNOLOGY CO., LTD

72: XU Chuanhua, LIU Lei, WANG Jun, LIU Yahui, CHEN Wei, YANG Jiaxiang, PENG Lifan, WANG Guanghui

33: CN 31: 2024104334861 32: 2024-04-11

54: A KIND OF WEAR-RESISTANT HIGH STRENGTH REDUCING AGENT FOR DRILLING FLUID AND ITS PREPARATION METHOD

00: -

The present invention discloses a wear-resistant high-strength mitigating agent for drilling fluids and a method for its preparation, and the mass content of each component when the sum of raw material components is calculated at 100% is as follows: 65~75% silica, 5~10% aluminum trioxide, 5~10% boron trioxide, 5~10% alkaline earth metal oxides, 5~10% alkali metal oxides, 0.2~3% rare earth elements, 0~2% iron trioxide, 0~2% Manganese

Dioxide 0~2%, Zirconium Oxide 0~2%, Zinc Oxide 0~2%, other trace element materials 0.2~5%. All the components are crushed, milled and granulated to prepare precursor particles; the precursor particles are pre-treated and then subjected to high-temperature hollow spheroidization, and then surface treatment to prepare wear-resistant and high-strength reducing agent for drilling fluid. This product has the advantages of environmental friendliness, obvious effect of density reduction, lubrication and drag reduction, no loss of MWD signal, etc. Meanwhile, it has solved the problems of low compressive strength, easy to break, and no abrasion resistance of existing low-density hollow glass beads reduce

21: 2025/02870. 22: 2025/04/03. 43: 2025/10/23

51: G06Q

71: SINOSTEEL MAANSHAN GENERAL INSTITUTE OF MINING RESEARCH CO., LTD

72: SHOU Zhenyu, MAO Quansheng, WU Jiangwei, HU Chao, HU Xiuyu, WU Pengcheng

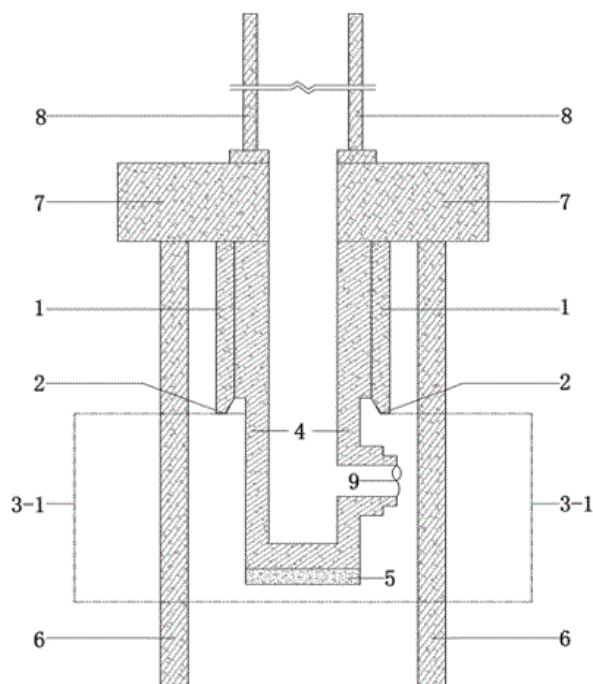
33: CN 31: 2024101874800 32: 2024-02-20

54: A NEW METHOD FOR RECONSTRUCTING THE FLOOD DISCHARGE SYSTEM IN TAILINGS PONDS

00: -

The present invention discloses a new method of reconstructing a flood discharge system in an in-use tailings pond, wherein the reconstructed flood discharge system consists of a combination of a steel-edged sinkhole (1), a dissipation well (4), a pile foundation (6), an annular bearing platform (7), and a new flood discharge well (8); the dissipation well (4) is excavated in layers down inside the steel-edged sinkhole (1), and the reinforced concrete is used for pouring a retaining wall to form a net circular cross-section; the pile foundation (6) is laid in a circular shape on the periphery of the steel-edged sinkhole (1); the ring bearing platform (7) is cast and supported on top of the pile foundation (6); the new flood discharge well (8) is constructed and supported on the ring bearing platform (7). This invention in the original drainage culvert pipe on the basis of the use of sinkhole transformation, can effectively shorten the construction cycle, reduce the construction cost, not only to meet the requirements of the tailing pond normal tailing, but also to ensure

that the strong rainfall season flooding needs, has good economic benefits.



21: 2025/02893. 22: 2025/04/04. 43: 2025/10/23
51: A47J; B01D; B03B; C02F
71: TIANJIN GEOENVIRON ENGINEERING & TECHNOLOGY CO., LTD., BEIJING GEOENVIRON ENGINEERING & TECHNOLOGY, INC.

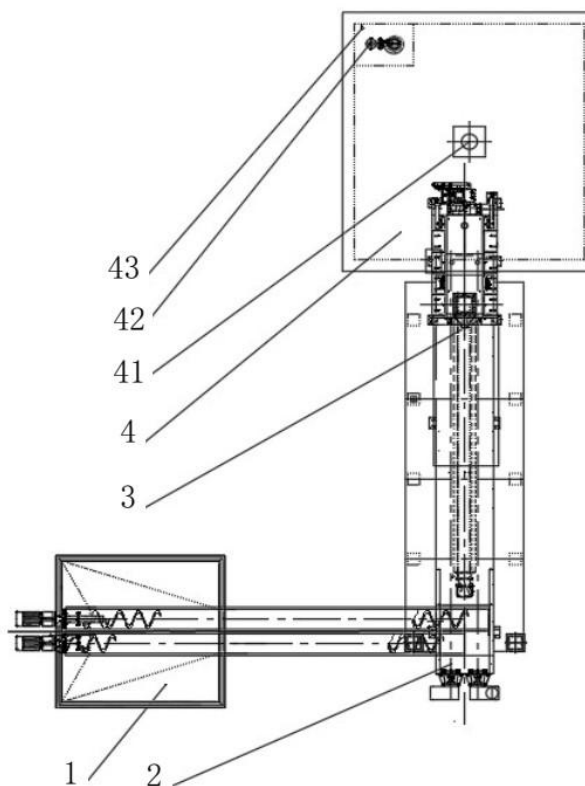
72: DU, Gang, CHEN, Jun, XIN, Yanbing, YANG, Qingbin

54: KITCHEN WASTE SOLID-LIQUID SEPARATION SYSTEM

00: -

Disclosed is a kitchen waste solid-liquid separation system. A material receiving bin includes a waste receiving hopper and a hopper bottom conveying screw. The waste receiving hopper is configured to receive kitchen waste, and the hopper bottom conveying screw is configured to convey the kitchen waste to a large material sorting machine. The large material sorting machine classifies the kitchen waste according to the type and the size of the kitchen waste, outputs the classified recyclables and inorganic materials, and conveys the classified organic materials to an extruding machine. The extruding machine extrudes the organic materials, outputs a solid-phase material, and conveys a liquid-phase material to a slurry pool; and an agitator and a spiral centrifugal pump are arranged in the slurry

pool. The agitator uniformly mixes the materials in the slurry pool, and the spiral centrifugal pump conveys the liquid-phase material to a subsequent treatment system.



21: 2025/02914. 22: 2025/04/07. 43: 2025/10/23
51: A01G

71: Institute of Grain Crops, Yunnan Academy of Agricultural Sciences, Huize County Agricultural Technology Extension Center, Huize County Malu Township Agricultural and Rural Comprehensive Service Center

72: ZHANG Jianhua, LYU Ying, LI Xiaolin, GUAN Junjiao, YANG Liping, DENG Wei, JI Jiagao, ZHANG Xingfu, LAN Duo, LI Qiongqian, CHAI Hongyan, YAN Lizheng, LI Sheping

54: CULTIVATION METHOD FOR MAINTAINING STABLE SUPPLY OF NITROGEN FERTILIZER IN LOW LATITUDE AND HIGH ALTITUDE ARID SOIL

00: -

The present invention discloses a cultivation method for maintaining stable supply of nitrogen fertilizer in low latitude and high-altitude arid soil, belonging to the technical field of crop planting in low-latitude high-altitude arid regions. The invention provides a cultivation method for stable supply of nitrogen fertilizer in low latitude and high altitude arid soil,

including the following steps: before sowing, soil improvement is carried out on the low-latitude high-altitude arid land using a dedicated nitrogen fertilizer for stable nitrogen supply, and crop management is implemented through fertilization methods such as deep basal application, precise fertilization based on leaf age model, and foliar spraying. Through measures such as soil improvement, nitrogen fertilizer selection and ratio, fertilization methods, and water management, the invention effectively enhances the stable supply of nitrogen fertilizer in low-latitude high-altitude arid soil, reduces nitrogen loss, improves nitrogen utilization efficiency, and promotes crop growth in these regions.

21: 2025/02915. 22: 2025/04/07. 43: 2025/10/23
51: H04L

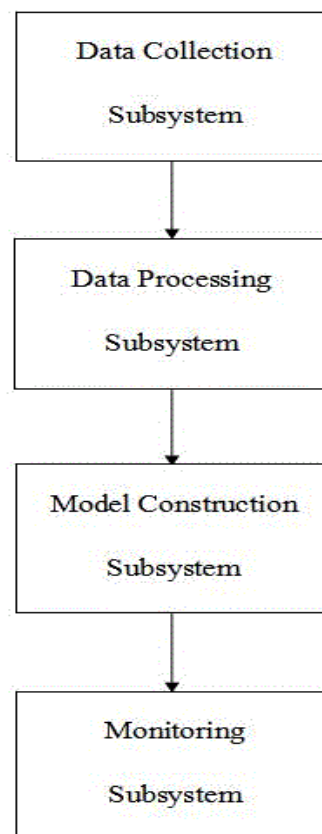
71: Yunnan Low-Altitude Industry Investment Co., Ltd.

72: YIN Hui, CHONG Pengyun, LI Linqing, DONG Qian, ZHOU Yunzhu, MA Chi, GAO Yuan, GAO Zhiwei, HE Fei

54: ABNORMAL VEHICLE MONITORING SYSTEM FOR EXPRESSWAY TUNNELS

00: -

This invention discloses an abnormal vehicle monitoring system for expressway tunnels, which belongs to the technical field of vehicle monitoring. The system includes a data collection subsystem, a data processing subsystem, a model construction subsystem, and a monitoring subsystem. This system may detect and identify abnormal behaviors in a timely manner, helping to respond quickly and reducing the likelihood of accidents.



21: 2025/02916. 22: 2025/04/07. 43: 2025/10/23
51: A01N

71: Shandong Institute of Pomology

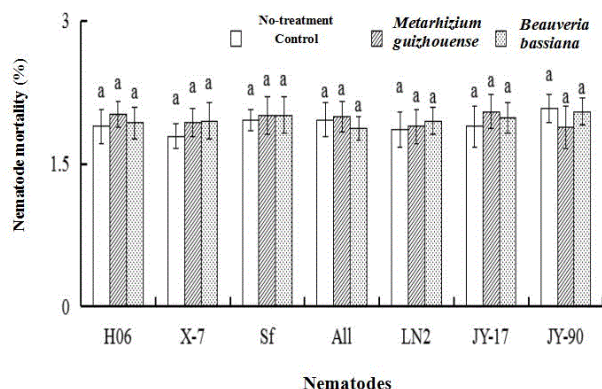
72: WU Haibin, SUN Jiazheng, ZHANG Yong, ZHANG Ganyu, DONG Fang

54: BIOLOGICAL AGENT FOR CONTROLLING ATRIJUGLANS HETAOHEI YANG AND ITS APPLICATION

00: -

The present invention discloses a biological agent for controlling Atrijuglans hetaohei Yang and its application, which belongs to the technical field of biological pest control. The present invention is based on *Steinernema feltiae* JY-90 and *Metarhizium guizhouense* to prepare a biological agent for controlling Atrijuglans hetaohei Yang. Laboratory experiments have proven that the combined control effect of the two is significantly improved compared with using them alone, showing a synergistic effect. The results of field experiments show that when *Steinernema feltiae* JY-90 with a dosage of $(1.25-1.75) \times 10^9$ IJs/hm² is combined with *Metarhizium guizhouense* with $(1.05-1.2) \times 10^{13}$ spores/hm² and applied at the beginning of the emergence period of the mature larvae of Atrijuglans

hetaohei Yang, the control effect reaches 95.16%-96.77%. The present invention combines biocontrol nematodes and biocontrol fungi, reduces the usage amount of insecticidal substances, not only saves costs but also achieves safe and efficient control of Atrijuglans hetaohei Yang, which has important ecological and environmental protection significance.



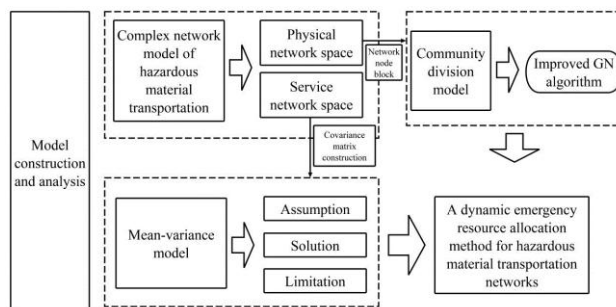
21: 2025/02917. 22: 2025/04/07. 43: 2025/10/23
51: G08G
71: Yunnan Low-Altitude Industry Investment Co., Ltd.
72: LI Linqing, CHONG Pengyun, LIU Weida, YIN Hui, WANG Zhenxing, LI Ming, WANG Jinbao, GAO Yuan, LI Xiaolin, ZHANG Hui, CHENG Wenming, XU Zilong, DAI Hongbin, NIE Shengguo, JIN Meng, WU Xiaoning, DONG Qian, ZHOU Yunzhu, TANG Yuanyuan, LI Baihua, ZHOU Xuan, CHAI Linlin, WANG Shuaiyi, SHI Dong, QIAN Qiang, LIU Chengtao, CHEN Bianning, SA Yu, ZHU Kun, ZHANG Zhendong, QIAO Yuezhi, CHEN Qungui, LIU Zhaodong, LYU Min

54: DYNAMIC EMERGENCY RESOURCE ALLOCATION METHOD FOR HAZARDOUS MATERIAL TRANSPORTATION NETWORKS INTEGRATING COMMUNITY DIVISION AND MEAN-VARIANCE OPTIMIZATION

00: -

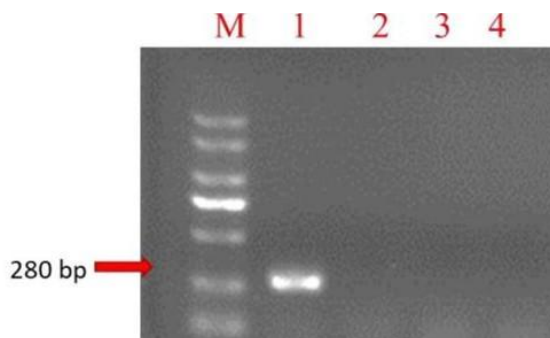
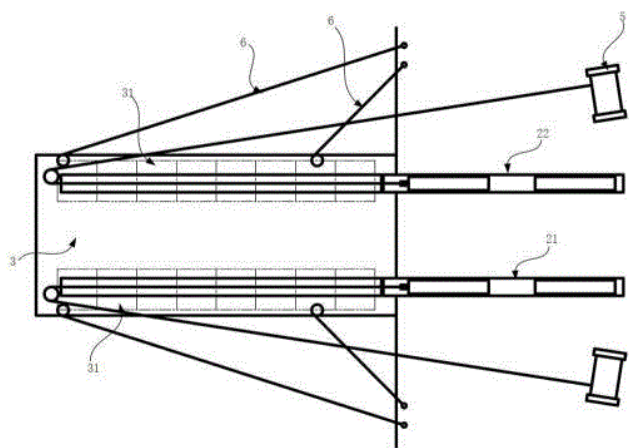
The invention relates to the technical field of resource allocation, in particular to a dynamic emergency resource allocation method for hazardous material transportation networks integrating community division and mean-variance optimization; according to the invention, a transportation complex network for hazardous material is established from the perspective of network topological structure, the transportation complex network for hazardous material is optimized

based on graph theory methods and analyzing its topological characteristics, all nodes are classified by using a complex network community division theory, and an emergency rescue resource allocation method is obtained by combining a mean variance theory and a load balancing algorithm.



21: 2025/02918. 22: 2025/04/07. 43: 2025/10/23
51: G06F
71: Tianjin University
72: LI Zhenmian, XU Yujun, YU Yang, LI Chengfeng
54: STABLE-LOADING METHOD OF ENGINEERING MODULES
00: -

The present invention pertains to the field of marine engineering technology, and particularly relates to a stable ship-loading method for engineering modules. The method includes: installing multiple movable gangways on the dock's slipway, arranging multiple lifting jacks at the bottom of the movable gangways, and correspondingly mounting displacement sensors atop each lifting jack; establishing a central control system; positioning the engineering module on the top surface of the movable gangways, connecting the engineering module to a winch, and docking the barge with the movable gangways; the winch progressively transfers the engineering module onto the barge while the central control system adjusts the lifting jacks based on displacement data from the sensors to maintain gangway balance, and simultaneously regulates the ballast water volume in each ballast tank to keep the barge level, thereby facilitating the module's transfer onto the barge. This invention effectively resolves the technical challenges of difficult module loading and high operational costs in existing methods, significantly enhancing the safety and stability of the ship-loading process while reducing construction expenses.



21: 2025/02919. 22: 2025/04/07. 43: 2025/10/23
 51: C12N; C12Q; G01N
 71: INSTITUTE OF NANFAN & SEED INDUSTRY,
 GUANGDONG ACADEMY OF SCIENCE
 72: QIN, Yuanxia, CHANG, Hailong, WANG,
 Jianqiang, WANG, Qinnan, WU, Qingdan, CEHNG,
 Yinjie, LIANG, Qinggan, WANG, Zhuqing, SUN,
 Shengren, XIAO, Hongyan

**54: PRIMER PAIR, PROBE AND METHOD FOR
 DETECTING BANANA STREAK VIRUS**

00: -

The present application discloses a primer pair, a probe and a method for detecting banana streak virus (BSV), and the primer pair includes a forward primer with a sequence shown in SEQ ID NO. 1 and a reverse primer with a sequence shown in SEQ ID NO. 2. By using the primer pair and the probe of the present application, and a recombinase polymerase amplification combined with a lateral flow dipstick (RPA-LFD) is used to detect the BSV. A situation of infection of the BSV can be visualized, rapidly and accurately detected, and has the advantages of strong specificity and high sensitivity. Detection results can be presented quickly and visually without complicated constant temperature cycle equipment, electrophoresis apparatus, gel imager and other professional equipment.

21: 2025/02921. 22: 2025/04/07. 43: 2025/10/23

51: E21D

71: Hebei University of Engineering

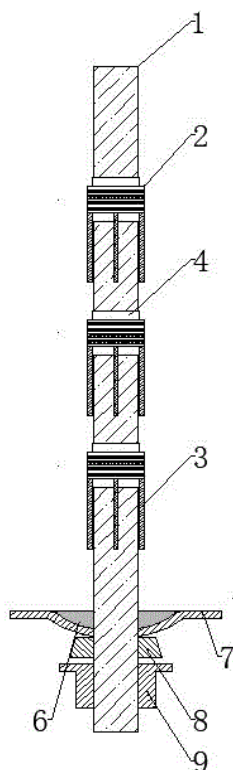
72: ZHANG Zhenquan, PANG Hui, HAN Zhe, YANG
 Jiaran, HUANG Yubo

33: CN 31: 2024107044343 32: 2024-06-03

**54: DEVICE, ANCHOR ROD AND METHOD FOR
 ENHANCING ANCHORING PERFORMANCE OF
 ANCHOR ROD**

00: -

Disclosed is a device and method for enhancing the anchoring performance of an anchor rod. The device is arranged on an anchor rod body and includes rod body fastening mechanisms and elastic supporting members. By arranging friction-enhancing bodies on the anchor rod body, hoop clamps are fastened outside friction-enhancing bodies, and the elastic supporting members are fixedly arranged at the hoop clamps, the anchor rod can more effectively resist the tensile force generated by the deformation of surrounding rocks, and further improves the tensile capacity of the anchor rod. The anchor rod is stably embedded in the surrounding rock mass of the roadway, which improves the consolidation effect between the anchor rod and the rock and soil, helps to enhance the bonding force and friction between the rock and soil and the anchor rod, increase the overall stability of the support system, and thus improving the anchoring effect.

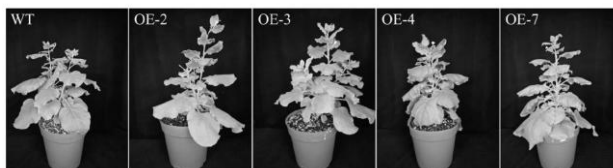


21: 2025/02923. 22: 2025/04/07. 43: 2025/10/23
 51: A01H; C12N
 71: GUANG XI BOTANICAL GARDEN OF MEDICINAL PLANTS
 72: Ying LIANG, Shuangshuang QIN, Fan WEI, Guili WEI, Linxuan LI, Ximei LIANG
 33: CN 31: 202411384580.9 32: 2024-09-30
54: A COPPER AMINE OXIDASE FROM SOPHORA TONKINENSIS GAGNEP., ITS GENE, AND ITS APPLICATION IN ENHANCING THE CONTENT OF MATRINE AND OXYMATRINE IN PLANTS

00: -

The present invention belongs to the field of crop genetic breeding, and relates to the cultivation of *Sophora tonkinensis* Gagnep. with the high content of matrine and oxymatrine, in particular to a copper amine oxidase from *Sophora tonkinensis* Gagnep., its gene, and its application in enhancing the content of matrine and oxymatrine in plants. In the present application, a copper amine oxidase (CAO) from *Sophora tonkinensis* Gagnep. is discovered and the CAO gene is used to enhance the biosynthesis of matrine and oxymatrine in *Sophora tonkinensis* Gagnep. In the present invention, a *Sophora tonkinensis* Gagnep. StCAO gene transgenic tobacco plant is obtained by transgenic technology, and it is found that the expression of StCAO can

positively regulate the biosynthesis of matrine and oxymatrine in *Sophora tonkinensis* Gagnep. This provides a new idea for the cultivation and production of plants with the high content of matrine and oxymatrine, especially *Sophora tonkinensis* Gagnep.



21: 2025/02924. 22: 2025/04/07. 43: 2025/10/23
 51: F25D

71: NINGBO HUIKANG INDUSTRIAL TECHNOLOGY CO., LTD

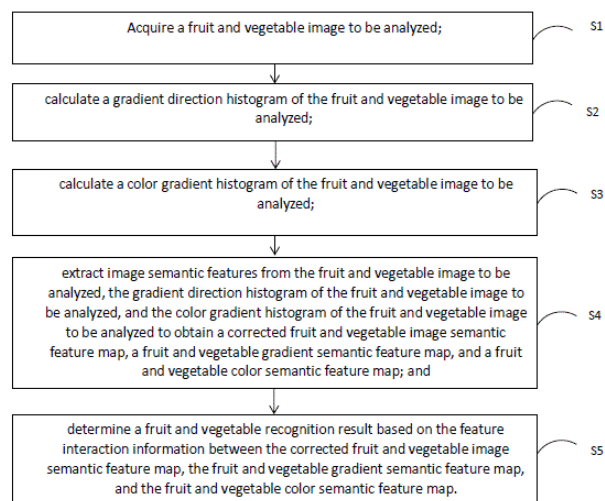
72: CHEN, Yuepeng, MAO, Binjun, CHENG, Zhongxiang, WANG, Wei

33: CN 31: 202410929398.0 32: 2024-07-11

54: FRUIT AND VEGETABLE IMAGE RECOGNITION SYSTEM OF SMART REFRIGERATORS BASED ON CONVOLUTIONAL NEURAL NETWORK AND METHOD THEREFOR

00: -

The present invention discloses a fruit and vegetable image recognition system of smart refrigerators based on convolutional neural network and a method therefor, which uses image processing technology and artificial intelligence technology based on deep learning algorithms to extract and learn multi-dimensional semantic features from fruit and vegetable images, and interacts and integrates this multi-dimensional semantic feature information to form a complete comprehensive description feature about fruit and vegetable categories, thereby realizing intelligent identification of fruit and vegetable categories. In this way, through the fruit and vegetable recognition function, the smart refrigerator can help users quickly identify the types of fruits and vegetables stored in the refrigerator, facilitate users to understand the inventory of food ingredients, and help users reasonably arrange the order of using food ingredients to reduce food waste, thereby improving the intelligent level of food management, helping users to better use food ingredients and reduce food waste, and also promoting food safety awareness and the practice of healthy eating.



21: 2025/02925. 22: 2025/04/07. 43: 2025/10/23
51: B22F

71: NINGBO HUIKANG INDUSTRIAL
TECHNOLOGY CO., LTD

72: CHEN, Yuepeng, WANG, Zhengcong, LIU,
Xiaofei, XIA, Xing

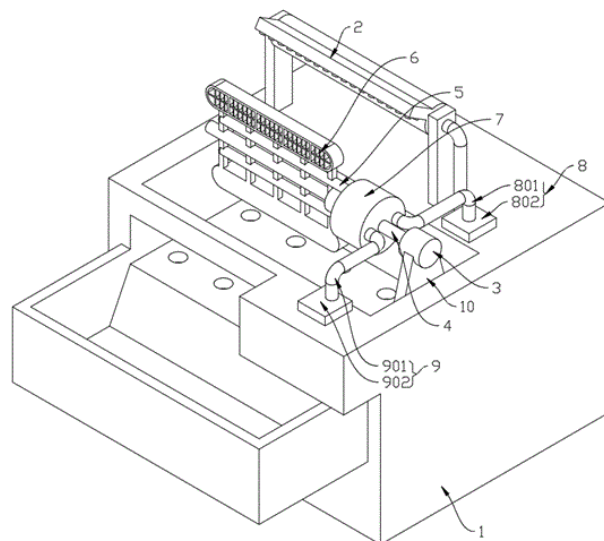
33: CN 31: 202411183153.4 32: 2024-08-27

54: HIGH-SPEED MANUFACTURING DEVICE FOR GRANULATED ICE

00: -

The present invention relates to the technical field of ice making, and discloses a high-speed particle ice manufacturing device, comprising a machine platform, an ice trough is arranged on the machine platform, a support plate is arranged in the ice trough, a bearing seat is arranged on the support plate, a rotating shaft is arranged inside the bearing seat, and the rotating shaft is connected to a drive; transition shafts are equidistantly arranged in pairs in the circumferential direction of the rotating shaft, a ventilation cavity is arranged on the transition shaft, the ventilation cavity is connected to a condensation trough, the left end of the transition shaft is connected to a transition valve, a transition trough is arranged on the transition valve, a cold source air supply hole and a hot source air supply hole are respectively arranged on the bottom plate of the transition trough, the cold source air supply hole is connected to a condensation component, and the hot source air supply hole is connected to a hot source component; the high-speed particle ice manufacturing device, through the setting of the transition shaft, cooperates with the use of the rotating shaft and the transition valve, so that the

device can realize fast ice making, and can realize ice making and unloading at the same time.



21: 2025/02926. 22: 2025/04/07. 43: 2025/10/23
51: A61K; C12N

71: DEUTSCHES

KREBSFORSCHUNGSZENTRUM STIFTUNG DES ÖFFENTLICHEN RECHTS

72: LI, Junwei, AUTENRIETH, Stella, RICHTER,
Karsten, HOFMANN, Ilse, TESSMER, Claudia,
PUSCHHOF, Jens

33: EP 31: 22194570.2 32: 2022-09-08

54: MODIFIED ONCOLYTIC PARVOVIRUS H-1PV WITH AN ENHANCED FITNESS AND SUPERIOR ANTICANCER ACTIVITY

00: -

The present invention relates to a rodent H-1 parvovirus variant capable of propagating and spreading through human tumor cells. In particular, the present invention relates to a parvovirus variant (H-1PV DR) that is based on wild-type H-1 PV but contains a 114-nucleotide internal deletion and a 55-nucleotide repeated motif towards the right-end terminus in the presence of full length of right-end ITRs. This variant displays improved anticancer activity. The present invention also relates to a pharmaceutical composition containing such a parvovirus variant as well as its use for the treatment of cancer.

21: 2025/02927. 22: 2025/04/07. 43: 2025/10/23
51: A41D; A42B; A63B
71: NIA HELMETS PTY LTD

72: ATTEY, Graeme Scott

33: AU 31: 2022903239 32: 2022-10-31

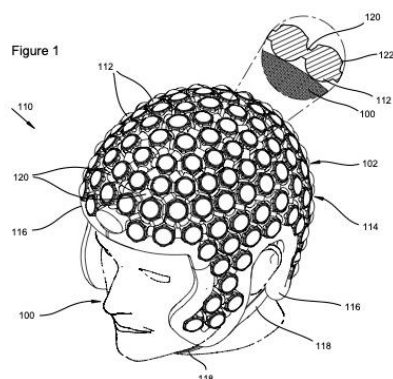
33: AU 31: 2023900019 32: 2023-01-05

33: AU 31: 2023901819 32: 2023-06-08

54: IMPACT ATTENUATION SYSTEM

00: -

There is disclosed an impact attenuation system for protecting an underlying structure, being a part of a person or a structure, from injury or damage resulting from impact shocks. The impact attenuation system includes a multiplicity of nodes arranged in a nodal matrix, wherein each of the nodes is interlinked with its neighbouring nodes. In use, when the nodal matrix is impacted by an impact shock, each node is able to at least partially rotate relative to each other node within the nodal matrix and roll along the underlying structure. The impact attenuation system can be utilised in helmets for persons who are prone to suffering head collisions, as well as in body armour.



21: 2025/02928. 22: 2025/04/07. 43: 2025/10/24

51: E21B; G01V

71: IMDEX TECHNOLOGIES PTY LTD

72: JACKSON, John, KOPLAN, Christopher Thomas, BLAINE, Fred

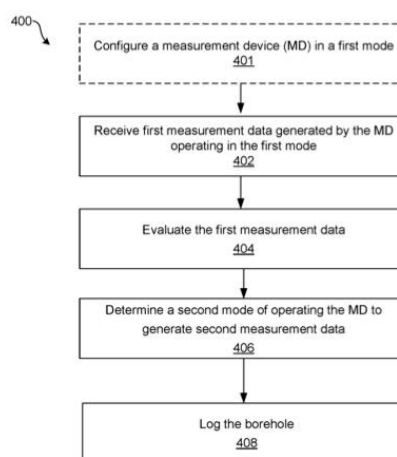
33: AU 31: 2022903253 32: 2022-11-01

54: BOREHOLE MEASUREMENT METHOD AND SYSTEM

00: -

A method for logging a borehole executed by at least one processor of a computing device. First measurement data of the borehole is received, wherein the first measurement data is generated by a measurement device operating in a first operational mode, and during a first movement of the measurement device along a path within the

borehole, and in a direction heading into the borehole. Borehole evaluation data is generated to evaluate the first measurement data of the borehole. The processor determines, based on the borehole evaluation data, a second operational mode of the measurement device to enable the measurement device to generate second measurement data during a second movement of the measurement device in an opposing direction along the path. Logging of the borehole is performed using the measurement device operating in at least the second operational mode.



21: 2025/02941. 22: 2025/04/07. 43: 2025/10/24

51: A61K; C07D; A61P

71: BIODOL THERAPEUTICS, INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, UNIVERSITE DE MONTPELLIER, UNIVERSITE DE STRASBOURG

72: MORNAT, Pauline, SOKOLOFF, Pierre, ROGNAN, Didier

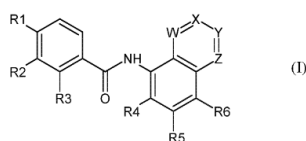
33: EP 31: 22306531.9 32: 2022-10-11

54: NEW N-HETEROARYLBENZAMIDES DERIVATIVES AS FLT3 INHIBITORS

00: -

The present invention relates to a compound of formula (I) or any of its acceptable salts (I) wherein W, X, Y and Z each independently represents =CH- or -N=, provided that at most two of W, X, Y and Z both represent a -N= group, R1 represents a linear or cyclic nitrogen containing (C₄-C₈)alkyl group, said group being a non aromatic (C₄-C₈)alkyl group that can be linear or cyclic comprising 4 to 8 carbon atoms that contains at least one nitrogen atom, that interrupts said alkyl chain, said group being

optionally interrupted by one or two oxygen atoms and optionally substituted by a (C₁-C₄)alkyl group or by a (C₃-C₆)cycloalkyl group, R₂ represents a hydrogen atom, a halogen atom, a (C₁-C₄)alkyl group, a (C₁-C₄)alkoxy group, a (C₁-C₄)fluoroalkyl group, a -CO-(C₁-C₄)alkyl group, a -CONH₂ group, a SO₂-NH₂ group or a cyano group, R₃ represents a hydrogen atom, a halogen atom, a (C₁-C₄)alkyl group, a (C₁-C₄)alkoxy group, a (C₁-C₄)fluoroalkyl group, a cyano group, a (C₁-C₄)alkylsulfonyl group or a SO₂-NH₂ group, and R₄, R₅ and R₆ independently represent a hydrogen atom, a halogen atom, a -COOH group, a -COO(C₁-C₄)alkyl group, a (C₁-C₄)fluoroalkyl group, a (C₁-C₄)alkylsulfonyl group or a (C₁-C₄)alkoxy group. The present invention further related to a pharmaceutical composition comprising it and to its use in the prevention and/or the treatment of pain.



21: 2025/02950. 22: 2025/04/08. 43: 2025/10/24

51: G01N

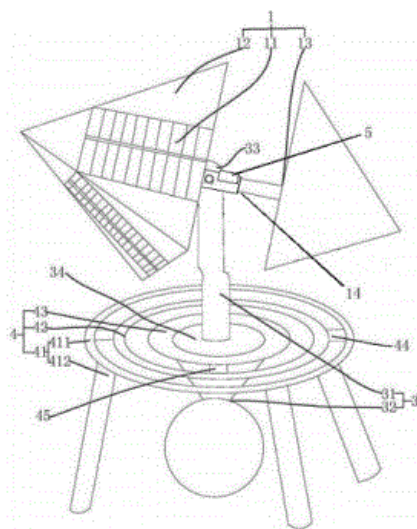
71: Beijing Normal University

72: YI, Yujun, CHEN, Kebing

54: ZENITH ANGLE MEASURING APPARATUS

00: -

Disclosed is a zenith angle measuring apparatus, including a light receiving element, an abutment, a circuit component and an angle measuring device. The light receiving element includes a support frame, a first counterweight and a solar panel; the solar panel can receive a sun exposure, the first counterweight is connected to the support frame through a telescopic rod that can adjust a distance between the first counterweight and the support frame. A direction adjusting member is connected to the light receiving member and can control the light receiving member to rotate. The direction adjusting member can move relative to the abutment such that the light receiving member and the direction adjusting member remain vertical under the action of gravity. The circuit component can adjust a spatial angle of the light receiving element. The angle measuring device can monitor and display a vertical deflection angle of the light receiving element.



21: 2025/02951. 22: 2025/04/08. 43: 2025/10/24

51: C09K

71: Beijing Yunling Bio-Technology Co., Ltd

72: LIU, Yu, WANG, Jinheng, WU, Jiajing, HE,

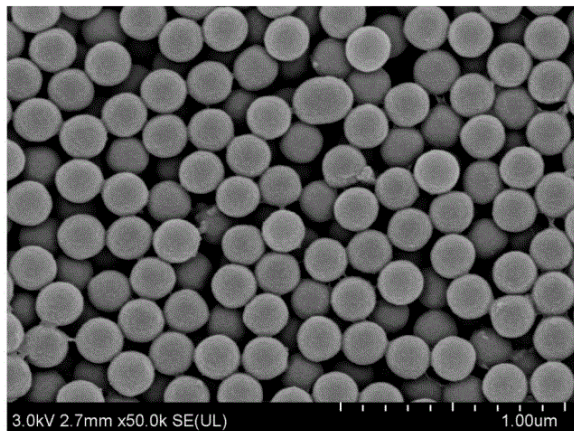
Jianzhen, CUI, Yuanyuan, SU, Dingran, REN,

Heshan, LIN, Yujie, XIA, Pengwei, WANG, Yangliu

54: HOMOGENEOUS CHEMILUMINESCENT RECEPTOR MICROSPHERE AND PREPARATION METHOD THEREFOR

00: -

The present invention belongs to the technical field of homogeneous chemiluminescence, and particularly relates to a homogeneous chemiluminescent receptor microsphere and a preparation method therefor. According to the present invention, monomers with an amide podand structure are introduced into polymerization reaction for preparing a basic microsphere, and amide podand can coordinate with rare earth by means of two carbonyl oxygen and one ether oxygen, such that a rare earth compound in the receptor microsphere can be tightly bound to a microsphere matrix by means of a coordination bond, and leakage of the rare earth compound during using of the microsphere is prevented. Compared with an existing homogeneous chemiluminescent microsphere, the homogeneous chemiluminescent receptor microsphere provided by the present invention has a higher luminescence signal value, a lower background and a lower detection limit.



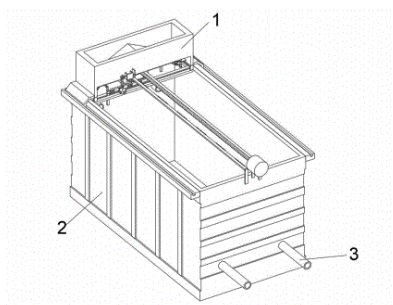
21: 2025/02952. 22: 2025/04/08. 43: 2025/10/24
51: C02F

71: Gansu Lingtai Shaozhai Coal Industry Co., Ltd.
72: LIU, Qingquan, WANG, Haidong, ZHAO, Yongbao, ZHU, Kai, BAO, Fulong, HAN, Jiacheng, MA, Honglin

54: DRILLING SLUDGE WATER RECYCLING DEVICE

00: -

Disclosed is a drilling sludge water recycling device, which relates to the technical field of sewage treatment. The device includes a support device. A top end of the support device is sleeved with a displacement part through threads. The displacement part and the support device are arranged to achieve objectives of targeted dosing and uniform distribution of treatment chemicals when the drilling sludge recycling device is used.



21: 2025/02953. 22: 2025/04/08. 43: 2025/10/24
51: A63B

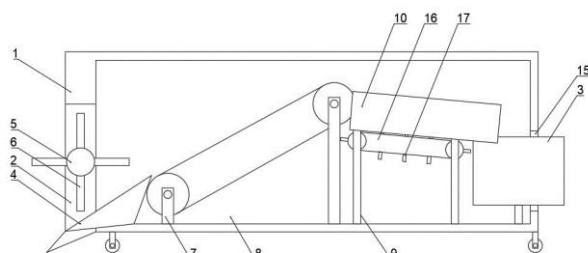
71: Zhaoqing University

72: WANG Juan

54: BADMINTON SPORTS TRAINING EQUIPMENT

00: -

The present invention relates to the technical field of training equipment and discloses a badminton sports training equipment. The equipment comprises a mobile vehicle body with a collection opening at its front end. A pushing mechanism is arranged within the collection opening, enabling the mobile vehicle body to collect scattered badminton shuttlecocks on the ground through the pushing mechanism. A conveying assembly, comprising a conveying component and an arranging component, is installed within the mobile vehicle body, with the conveying component connected to the arranging component. A collection assembly comprises a collection tray and several collection units. The collection tray is rotatably connected within the mobile vehicle body and positioned below the end of the arranging component away from the conveying component. Multiple collection units are circumferentially arranged on the collection tray to collect badminton shuttlecocks from the arranging component. A through hole is provided at the rear end of the mobile vehicle body, allowing the collection tray to extend out of the mobile vehicle body through the through hole. The invention achieves the collection, arrangement, and subsequent tube-loading of badminton shuttlecocks, ensuring uniform arrangement after loading and facilitating subsequent retrieval.



21: 2025/02954. 22: 2025/04/08. 43: 2025/10/24
51: B61L

71: Yunnan Low-Altitude Industry Investment Co., Ltd.

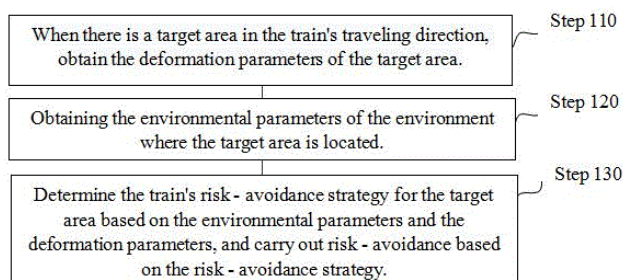
72: LI Linqing, CHONG Pengyun, LIU Weida, YIN Hui, WANG Zhenxing, LI Ming, WANG Jinbao, LI Xiaolin, GAO Yuan, ZHANG Hui, CHENG Wenming, XU Zilong, DAI Hongbin, NIE Shengguo, JIN Meng, WU Xiaoning, DONG Qian, ZHOU Yunzhu, TANG Yuanyuan, LI Baihua, ZHOU Xuan, CHAI Linlin, WANG Shuaiyi, SHI Dong, QIAN Qiang, LIU Chengtao, CHEN Bianning, SA Yu, ZHU Kun,

ZHANG Zhendong, QIAO Yuezhi, CHEN Qungui, LIU Zhaodong, LYU Min

54: ENVIRONMENT - ADAPTABLE TRAIN INTELLIGENT RISK - AVOIDANCE METHOD, DEVICE, AND TRAIN ONBOARD TERMINAL

00: -

This application embodiment discloses an environment-adaptable train intelligent risk-avoidance method, device, and train onboard terminal, which relates to the transportation field. The method includes: when there is a target area in the train's traveling direction, obtaining the deformation parameters of the target area; obtaining the environmental parameters of the environment where the target area is located; determining the train's risk-avoidance strategy for the target area based on the environmental parameters and the deformation parameters, and carrying out risk-avoidance based on the risk-avoidance strategy. This application may accurately predict potential dangers on the railway and enable the train to take effective risk-avoidance measures in advance, thus ensuring the safety of train operation.



21: 2025/02955. 22: 2025/04/08. 43: 2025/10/24
51: G06Q

71: Yunnan Low-Altitude Industry Investment Co., Ltd.

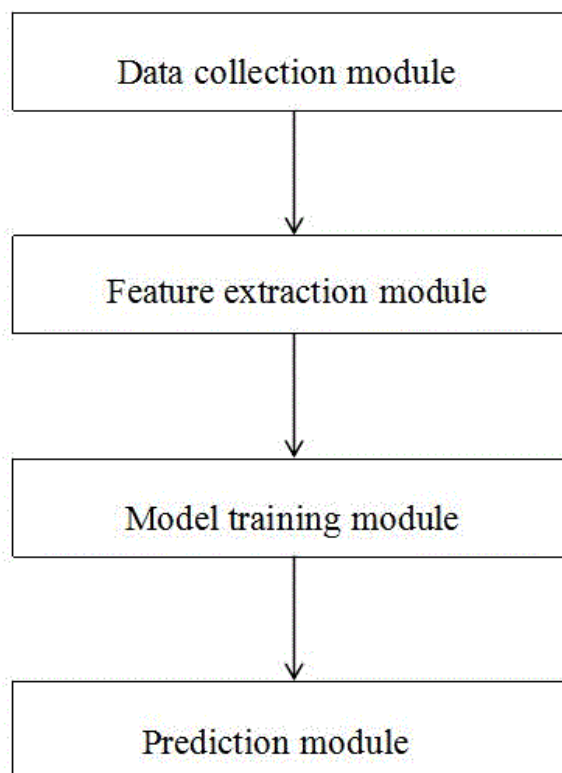
72: YIN Hui, CHONG Pengyun, LI Linqing, DONG Qian, ZHOU Yunzhu, MA Chi, GAO Zhiwei, HE Fei, GAO Yuan

54: SYSTEM FOR HIGHWAY TRAFFIC FLOW PREDICTION BASED ON BIG DATA

00: -

The invention discloses a system for highway traffic flow prediction based on big data, including: a data collection module, is used for collecting real-time traffic data on highways; a feature extraction module, is connected to the data collection module, and used for extracting key features from the real-time traffic data using machine learning algorithms; a model training module, is connected to the feature

extraction module, and used for constructing an initial prediction model and training it using the key features to obtain a prediction model; a prediction module, is connected to the model training module, and used for predicting the traffic flow on highways in real-time using the prediction model to obtain prediction results. Through extracting spatiotemporal features from real-time traffic data for prediction, the invention can accurately predict highway traffic flow, providing scientific support for traffic management decisions.



21: 2025/02956. 22: 2025/04/08. 43: 2025/10/24
51: A01G

71: Institute of Grain Crops, Yunnan Academy of Agricultural Sciences, Huize County Agricultural Technology Extension Center, Huize County Malu Township Agricultural and Rural Comprehensive Service Center

72: ZHANG Jianhua, LYU Ying, LI Xiaolin, GUAN Junjiao, YANG Liping, DENG Wei, JI Jiagao, ZHANG Xingfu, LAN Duo, LI Qiongqian, CHAI Hongyan, YAN Lizheng, LI Sheping

54: CULTIVATION METHOD FOR IMPROVING DROUGHT RESISTANCE OF LOW-LATITUDE AND HIGH-ALTITUDE DRYLAND CROPS

00: -

The present invention discloses a cultivation method for improving drought resistance of low-latitude and high-altitude dryland crops, belonging to the technical field of crop cultivation in low-latitude, high-altitude drylands. The invention provides a cultivation method for enhancing drought resistance of crops in such regions, including the following steps: prior to sowing, seeds are treated with a specialized drought-resistant agent for spring-sown crops in low-latitude, high-altitude drylands, and crop management is implemented through a three-dimensional intercropping and rotation system to improve ground cover during autumn and winter. By combining seed treatment of corn and potatoes with an intercropping rotation pattern - where potatoes are intercropped with corn, radishes or buckwheat are planted after potato harvest, and green manure is cultivated before corn harvest - the invention effectively preserves soil moisture content and favorable soil moisture conditions during autumn and winter in low-latitude, high-altitude drylands. This approach not only enhances crop drought resistance and avoidance capabilities but also improves soil structure and increases per-unit-area productivity in these regions. While ensuring regional food security, the method significantly improves farmers' net income.

21: 2025/02957. 22: 2025/04/08. 43: 2025/10/24
51: B01D

71: Henan University of Urban Construction

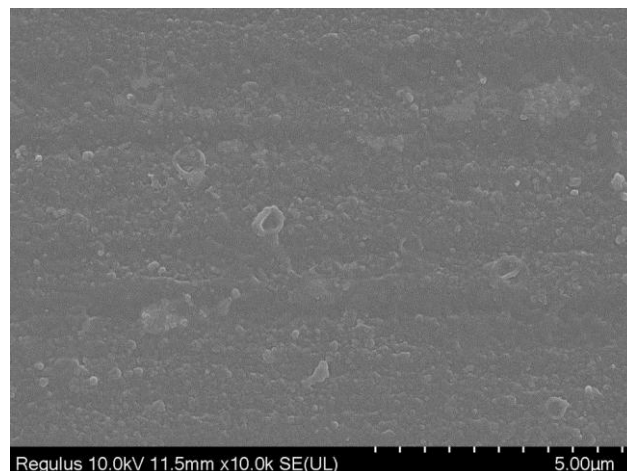
72: WANG Chuanfeng, REN Haibo

**54: SURFACE-FUNCTIONALIZED
POLYVINYLIDENE FLUORIDE HOLLOW FIBER
COMPOSITE NANOFILTRATION MEMBRANE
AND PREPARATION METHOD THEREOF**

00: -

The present invention provides a surface-functionalized polyvinylidene fluoride (PVDF) hollow fiber composite nanofiltration membrane and its preparation method, which pertains to the technical field of nanofiltration membrane fabrication. The invention involves mixing a polymer, a diluent, and a cross-linking agent to form a casting solution. After phase inversion, the aqueous monomers remaining on the nascent fiber undergo in-situ interfacial polymerization with acyl chloride monomers in the reaction bath to construct the nanofiltration separation layer. The preparation method comprises

the following steps: preparing the casting solution; preparing the core solution and dual baths; and spinning the hollow fiber composite nanofiltration membrane. This invention enables the simultaneous formation of the hollow fiber support layer and the separation layer, simplifying the membrane fabrication process and reducing time and costs. Additionally, the surface-functionalized polyvinylidene fluoride hollow fiber composite nanofiltration membrane prepared by this method offers advantages such as easy cleaning and a large specific surface area. The separation layer is uniform, continuous, and defect-free, promising broad application prospects in water purification, seawater desalination, and resource recovery.



21: 2025/02958. 22: 2025/04/08. 43: 2025/10/27
51: B09C

71: Hainan Baolvchun Agricultural Development Co., Ltd.

72: Fu Hongwen

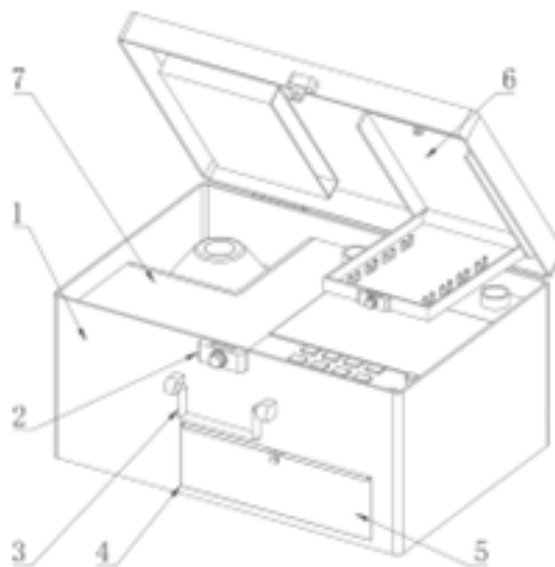
33: CN 31: 2024110160528 32: 2024-07-27

**54: METHOD FOR REMEDIATING BANANA
(MUSA SPP.) CONTINUOUS CROPPING
OBSTACLE-AFFECTED SOIL**

00: -

The present invention relates to the field of soil improvement technologies, and provides a method for remediating banana (*Musa spp.*) continuous cropping obstacle-affected soil. The method for remediating banana continuous cropping obstacle-affected soil of the present invention includes the following steps: removing the banana roots and straw from the banana continuous cropping obstacle-affected soil, and crushing the banana roots and banana straw to obtain banana straw

particles; applying fertilizer to the banana continuous cropping obstacle-affected soil, irrigating the soil; covering the surface of the banana continuous cropping obstacle-affected soil with the banana straw particles, then covering with a layer of agricultural plastic film for fumigation, plowing, and field-establishing pepper plants; removing the pepper roots and pepper straw, and crushing them to obtain pepper straw particles; covering the surface of the banana continuous cropping obstacle-affected soil with the pepper straw particles, then covering with a layer of agricultural plastic film for fumigation, plowing. The method for remediating banana continuous cropping obstacle-affected soil provided by the present invention may effectively remediate banana continuous cropping obstacle-affected soil, reduce the incidence of Fusarium wilt and leaf spot disease in banana plants, and increase yield, thereby effectively improving economic benefits.



21: 2025/02959. 22: 2025/04/08. 43: 2025/10/24
51: G01N
71: TAIZHOU UNIVERSITY
72: ZHU, Ya, HUANG, Siyu, MA, Chenyi, YUAN, Yuxuan

54: OUTDOOR EFFICIENT WATER QUALITY POLLUTANT TOXICITY DETECTION DEVICE

00: -

Disclosed is an outdoor efficient water quality pollutant toxicity detection device, which specifically relates to the technical field of biological detection, and includes a box body. A first latch is fixedly connected to an upper side of a front end of the box body; a handle is fixedly connected to the middle of the front end of the box body; an upper part of a back side of the box body and the first latch are jointly provided with an upper cover group; a detection mechanism is fixedly connected to an upper side of an inner cavity of the box body; a first mounting groove is arranged on a lower side of the front end of the box body; and an inner cavity of the first mounting groove and the inner cavity of the box body are jointly provided with an accommodating group.

21: 2025/02963. 22: 2025/04/08. 43: 2025/10/24
51: G06F

71: ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY

72: ZHANG, Lijuan, ZHOU, Juncheng, HE, Yachen, SHA, Sha, CHI, Liang, HE, Cheng

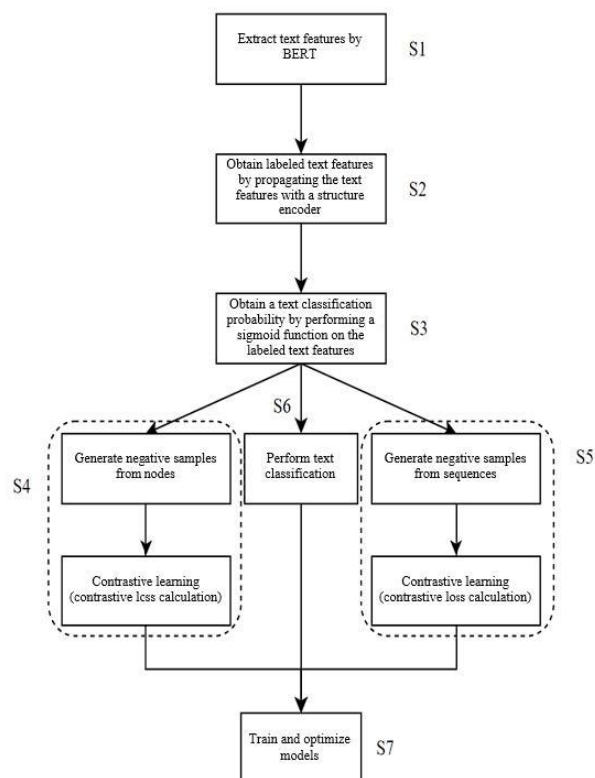
33: CN 31: 2024119935584 32: 2024-12-31

54: HIERARCHICAL TEXT CLASSIFICATION METHOD AND SYSTEM FOR CONFUSION OF FINE-GRAINED LABELS

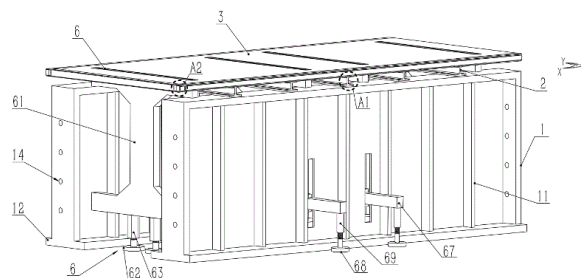
00: -

The present invention discloses a hierarchical text classification method and system for confusion of fine-grained labels, and relates to the technical field of hierarchical text classification. The hierarchical text classification method includes: extracting features of a to-be-classified text, obtaining label features of the text after processing, obtaining a text classification probability according to the label features, determining a node negative sample and a node positive sample based on the text classification probability, and obtaining a first loss function; constructing a plurality of sequence negative samples and sequence positive samples by using a label structure and a depth-first traversal algorithm to obtain a second loss function; calculating a third loss function of multi-label classification; further obtaining a total loss function; and training a BERT model by optimizing the total loss function, and classifying the to-be-classified text to obtain a text classification result. According to the present invention, the high-quality negative samples are generated from two

aspects of nodes and sequences, so that the feature range of negative samples is enlarged, and the quality of the negative samples is improved; the high-quality negative samples are used, and the role of contrastive learning is fully utilized to enhance the effect of hierarchical text classification.



in parallel, the plurality of distributive beams span between tops of the two profile steel supporting members, lower surfaces of the distributive beams abut against upper surfaces of the two profile steel supporting members, and upper surfaces of the distributive beams abut against a lower surface of the steel panel; and the limiting structures are disposed between the upper surfaces of the two profile steel supporting members and the lower surface of the steel panel to limit the displacement of the distributive beams and the steel panel in an extension direction of the single pedestal. According to the present invention, when a local steel panel deforms and sags under the action of an external load, only the steel panel in the single pedestal on a corresponding position needs to be replaced, which effectively reduces the use cost.



21: 2025/02968. 22: 2025/04/08. 43: 2025/10/24
51: B28B

71: China Railway No.4 Engineering Group Co., Ltd., The Fifth Engineering Co., Ltd. of CREC No. 4 Group, China Railway Group Limited

72: HUANG, Shi yu, FENG, Yang hao, FANG, Xing chu, LIAO, Guang dan, JI, Yang, LIU, Kun, SHI, Chun guang, LIU, Fu, BAO, Zheng sheng

33: CN 31: 2024105378886 32: 2024-04-30

54: ASSEMBLED PEDESTAL AND METHOD

00: -

The present invention provides an assembled pedestal and a method, and relates to the technical field of prefabricated beam pedestals. The assembled pedestal includes a plurality of single pedestals connected end to end, wherein each single pedestal includes two profile steel supporting members, a plurality of distributive beams, a steel panel and limiting structures; the two profile steel supporting members are disposed at a spacing and

21: 2025/02994. 22: 2025/04/09. 43: 2025/10/24
51: E21F

71: Henan University of Urban Construction

72: CHU, Yapei, LIU, Fei, OUYANG, Kai, WANG, Man, WANG, Yingwei, NIU, Zehua, CHU, Dongliang, LU, Qiang, LI, Junlong, ZHAO, Xiaoming, WANG, Meng, BAI, Jiajia, DONG, Zhe

54: PERMEABILITY IMPROVEMENT DEVICE AND METHOD

00: -

Disclosed is a permeability improvement device, which relates to the technical field of permeability improvement technology of coal seams. The permeability improvement device mainly includes a slitting pipe and a pressure water injection device, where the slitting pipe is configured to be filled with explosives and is inserted into a drill hole of a coal seam, and the slitting pipe is provided with slits. The pressure water injection device is configured to be connected to the slitting pipe and inject liquid to be injected into the drill hoe by means of the slitting pipe.

21: 2025/02995. 22: 2025/04/09. 43: 2025/10/24
51: A01N

71: Institute of Vegetables, Hainan Academy of Agricultural Sciences, Nankai University
72: SUN, Xiaodong, BIAN, Qiang, PANG, Qiangqiang, ZHOU, Man

54: COMPOSITE MICROBIAL AGENT AND USE THEREOF IN CONTROL OF PHYLLOTRETA STRIOLATA (FABRICIUS)

00: -

Disclosed is a composite microbial agent and use thereof in control of *Phyllotreta striolata* (Fabricius), belonging to the technical field of biological control. The composite microbial agent is prepared from a bacterial suspension of *Bacillus thuringiensis* and a bacterial suspension of *Purpureocillium lilacinum*; a volume ratio of the bacterial suspension of *B. thuringiensis* to the bacterial suspension of *P. lilacinum* is 1:1; a concentration of the bacterial suspension of *B. thuringiensis* is 8,000-10,000 IU/mL; and a concentration of the bacterial suspension of *P. lilacinum* is 8,000-10,000 IU/mL. After being applied in a form of foliar spray, the composite microbial agent has a control efficacy of 62.58 percent and 67.66 percent, respectively, at 7 d and 10 d against *P. striolata* (Fabricius), has strong toxicity for *P. striolata* (Fabricius), and can be used in control of *P. striolata* (Fabricius) on vegetables.

21: 2025/02996. 22: 2025/04/09. 43: 2025/10/28
51: G01N

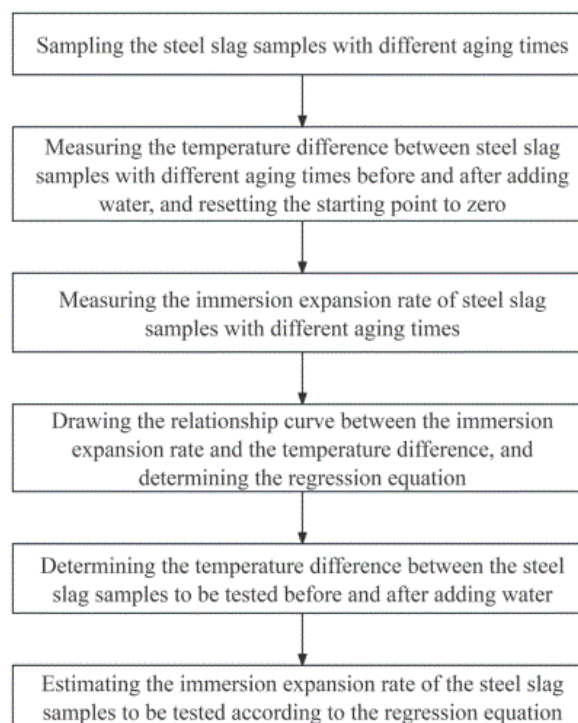
71: Long Jian Road & Bridge Co., Ltd.
72: Xinzhi WANG, Chao GAO, Lianying CAO, Jianwei BI, Xu WANG, Shaoyi CHEN, Zhenlin ZHANG

33: CN 31: 2025100745845 32: 2025-01-16
54: METHOD FOR ESTIMATING EXPANSION OF STEEL SLAG MATERIAL BY INFRARED TEMPERATURE MEASUREMENT

00: -

A method for estimating an expansion of steel slag material by infrared temperature measurement is disclosed, which relates to the fields of metallurgy, road engineering and solid waste utilization technology, wherein including: determining the aging time of the steel slag by investigating the steel slag in the steel slag yard, and selecting the steel slag with different aging time as the sample to determine the standard curve; measuring the temperature difference of steel slag samples with different aging

times before and after without adding water, and resetting the starting point of the temperature difference to zero; measuring the immersion expansion rate of different steel slags by using the steel slag stability test method, and drawing the relationship curve between the immersion expansion rate and the temperature difference; and determining the temperature difference of the steel slag sample to be tested, and obtaining the expansion rate of the steel slag sample to be tested according to the relationship curve between the immersion expansion rate and the temperature difference. Therefore, the above method for estimating the expansion of steel slag material by infrared temperature measurement is adopted, which can rapidly detect the expansion characteristics of steel slag, predict its expansion rate, and provide a reference basis for its application in engineering.



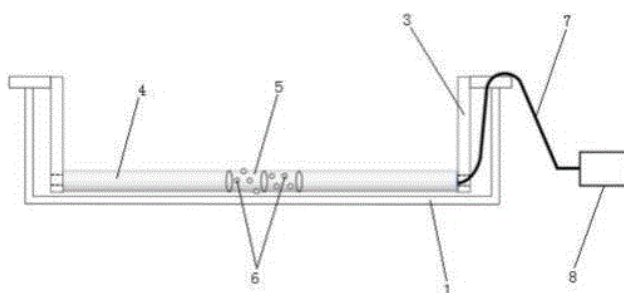
21: 2025/02997. 22: 2025/04/09. 43: 2025/10/24
51: G01L

71: Tianjin University
72: LI Zhenmian, LIN Jiacheng, YU Yang, DUAN Qinghao

54: PRESSURE SENSOR ARRANGEMENT SYSTEM AND METHOD FOR HYDRODYNAMIC TESTING OF SMALL-DIAMETER PIPELINES

00: -

The present invention provides a pressure sensor arrangement system and method for hydrodynamic testing of small-diameter pipelines. The system includes a test flume, model pipelines, boundary conditions, sleeves, sensor arrangement pipe sections, pressure sensors, connection wires, and a sensor acquisition instrument. The method includes the following steps: 1) preparing the pressure sensor arrangement system and a test flume in advance; 2) wrapping and fixing sleeves around each model pipeline; 3) installing pressure sensors in the sensor arrangement zones of the pipe sections, then attaching the pipe sections to the model pipelines; 4) fixing one end of each model pipeline to corresponding boundary conditions and installing them inside the test flume; 5) connecting the sensor acquisition instrument (located outside the flume) to the pressure sensors via connection wires to enable data acquisition. The invention has a reasonable concept, and can realize that the pressure sensor is arranged around the small-sized pipeline to measure the hydrodynamic force around the small-sized pipeline efficiently.



21: 2025/02998. 22: 2025/04/09. 43: 2025/10/27
51: C09D

71: CASPER COMBRINK INVESTMENTS (PTY) LTD

72: CASPER J COMBRINK

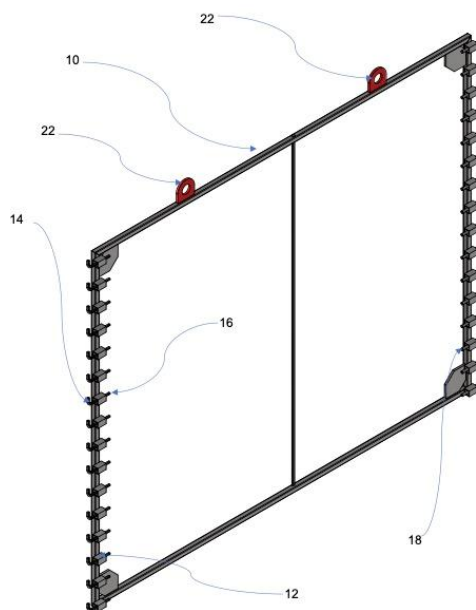
54: THERMOPLASTIC POWDER COATING

00: -

The present invention relates to application of thermoplastic coatings for a hydraulically expandable rock bolt.

CASPER COMBRINK INVESTMENTS (PTY) LTD
Complete Patent Application: Thermoplastic Powder Coating

Sheet 1/2



21: 2025/02999. 22: 2025/04/09. 43: 2025/10/24
51: A01G

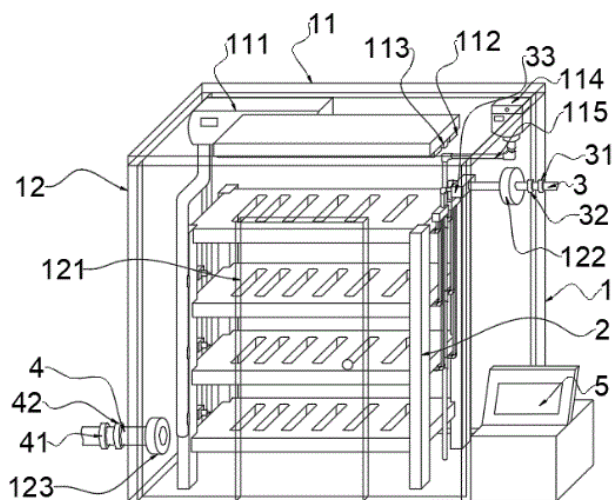
71: Shandong Academy of Agricultural Sciences
72: ZHAO Zichao, REN Huaidong, GAO Xinhao, YAO Li, SUN Tao, LI Ran

54: EDIBLE MUSHROOM CULTIVATION DEVICE CAPABLE OF MONITORING CARBON EMISSIONS

00: -

The invention discloses an edible mushroom cultivation device capable of monitoring carbon emissions, including a box body, wherein an air inlet is matched with an air inlet pipe; the air inlet pipe is communicated with the inside of the box body and the outside of the box body; one end of the air inlet pipe close to the outside of the box body is provided with a first flowmeter and a first air detection device; the air outlet pipe is communicated with the inside of the box body and the outside of the box body; one end of the air outlet pipe close to the outside of the box body is connected with an air pump; the air pump is arranged outside the box body; one end of the air outlet pipe close to the air pump is provided with a second flowmeter and a second air detection device. The invention realizes ventilation in the box body by arranging the air inlet pipe and the air outlet pipe; by controlling the concentrations of oxygen and carbon dioxide through the cooperation of the air

inlet pipe and the air outlet pipe with the first air detection device and the second air detection device, it is convenient to monitor the carbon emission during the cultivation of edible fungi, adjust and adapt to emission reduction measures, and respond to the "dual carbon" goals".



21: 2025/03000. 22: 2025/04/09. 43: 2025/10/28

51: H01M

71: Hubei Betteray Technology Co., Ltd., Hubei Betteray Technology Co., Ltd.

72: Yang Jingyun, Yang Zun, Cai Linjun

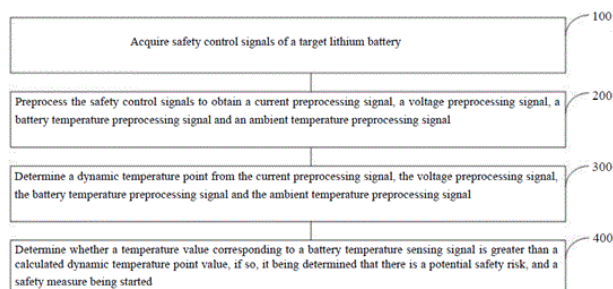
33: CN 31: 2024116584139 32: 2024-11-20

54: LITHIUM BATTERY SAFETY CONTROL METHOD AND SYSTEM

00: -

The present invention provides a lithium battery safety control method and system. The method includes: acquiring safety control signals of a target lithium battery, the safety control signals including: a real-time current signal, a real-time voltage signal, a battery temperature sensing signal and an ambient temperature sensing signal; preprocessing the safety control signals to obtain a current preprocessing signal, a voltage preprocessing signal, a battery temperature preprocessing signal and an ambient temperature preprocessing signal; determining a dynamic temperature point from these signals; and determining whether a temperature value corresponding to the battery temperature sensing signal is greater than the calculated dynamic temperature point value. The present invention can effectively improve the safety and

reliability of the lithium battery and reduce potential safety risks through comprehensive data acquisition, accurate dynamic temperature point calculation and timely risk determination.



21: 2025/03001. 22: 2025/04/09. 43: 2025/10/24

51: G01N

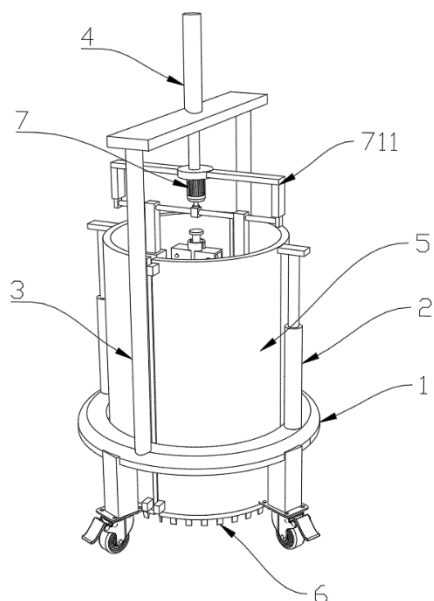
71: Yancheng Teachers University

72: Ya XU

54: SAMPLING DEVICE FOR ENVIRONMENTAL ECOLOGICAL RESTORATION

00: -

The present invention relates to the field of ecological restoration, and discloses a sampling device for environmental ecological restoration, including a support plate, a hydraulic cylinder A is fixedly connected to the top of the support plate, a support frame is fixedly connected to the top of the support frame, a hydraulic cylinder B is fixedly connected to the top of the support frame, a cleaning mechanism is arranged at the bottom of the hydraulic cylinder B, and the cleaning mechanism includes a connecting frame, the connecting frame is fixedly connected to the bottom of the hydraulic cylinder B, a motor is fixedly connected to the bottom of the connecting frame, a bearing is fixedly connected to the output end of the motor, a connecting block is fixedly connected to the bottom of the bearing, and a limit rod is fixedly connected to the inner wall of the connecting block. In the present invention, after the sampling is completed, the inner wall scraper is made to fit the inner wall of the arc-shaped sampling shell, so as to realize the flexible adjustment of the scraper position, the motor drives the whole to rotate, and the inner wall scraper fits the inner wall of the arc-shaped sampling shell to rotate, which can effectively scrape off the soil attached to the inner wall and ensure the cleaning of the inner wall of the arc-shaped sampling shell.



21: 2025/03006. 22: 2025/04/09. 43: 2025/11/10
51: B60V

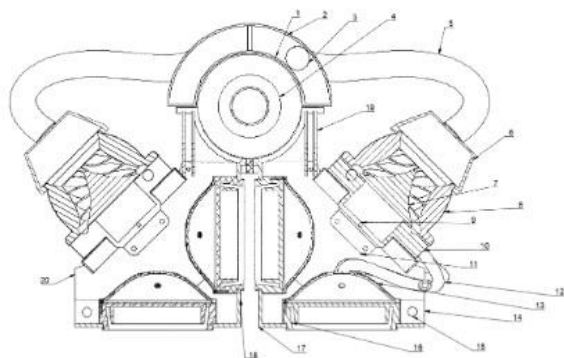
71: CHINOOK HIGH SPEED RAIL TRANSIT CORP.
72: HANTON, Callum

33: US 31: 63/405,265 32: 2022-09-09

54: HIGH SPEED AIR-CUSHIONED VEHICLE

00: -

A cargo or passenger vehicle floats on a cushion of air, which is generated initially by electrically driven compressors, and having a forward propulsion engine such as a linear induction motor or jet engine. As forward velocity increases, the body of the vehicle helps to turn drag force into compressed air, which is heated by waste heat from the forward propulsion engine, and used by the compressor system to create the air cushion.



21: 2025/03013. 22: 2025/04/09. 43: 2025/10/28
51: B01F

71: Zhejiang Suichang Huijin Nonferrous Metals Co., Ltd

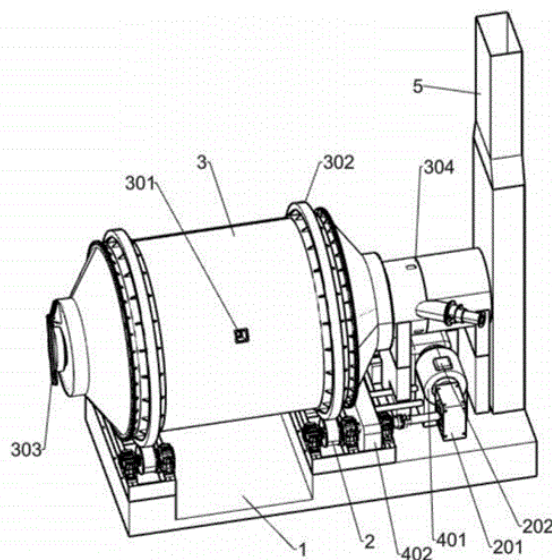
72: Cao Haizhou, Wan Meng, Zhou Pin, Li Huajie, Fang Hui, Lin Jiajia, Su Wenya, Zhou Yichen, Lin Kang, Tang Xiajun, Lin Maowei, Liu Zhouyi

33: CN 31: 2024114439446 32: 2024-10-16

54: HIGH-EFFICIENCY MULTIFUNCTIONAL MECHANICAL STIRRING DEVICE FOR METAL SMELTING

00: -

Disclosed is a high-efficiency multifunctional mechanical stirring device for metal smelting, which includes a base, a driving mechanism, a stirring mechanism, a cooling mechanism, a flue gas treatment device and a control system. The driving mechanism drives a stirring column to rotate through a motor and a speed reducer, and an angle of a stirring blade is adjustable, which is suitable for a variety of smelting processes. The cooling mechanism adopts a circulating cooling system to effectively prevent the device from overheating. The flue gas treatment device is used for treating harmful gases generated in the smelting process to ensure environmental protection standards. The control system monitors the state of device in real time, automatically adjusts running parameters, and realizes intelligent operation. The device improves smelting efficiency, reduces energy consumption and enhances environmental protection performance, and is suitable for smelting aluminum, copper, steel and other metals.



21: 2025/03016. 22: 2025/04/09. 43: 2025/10/24

51: C08L; C22B

71: SNF GROUP

72: FAVERO, Cédric, ZAKOSEK, Gilles,
BONNEAU, Aurélien, DUCHADEAU, Aurélien

33: FR 31: 2211510 32: 2022-11-04

**54: BINDING COMPOSITION FOR ORE
AGGLOMERATES**

00: -

The present invention relates to a binding composition, for the manufacture of ore agglomerates, comprising at least the following two distinct organic binding agents CP1 and P2: - a polymeric composition CP1 comprising a non-ionic or anionic water-soluble synthetic polymer P1 with a weight average molecular weight of between 500,000 and 3 million Daltons, 5 - a non-ionic or anionic water-soluble synthetic polymer P2 with a weight average molecular weight greater than 2 million Daltons, wherein the polymeric composition CP1 and the polymer P2 are both present in the form of solid particles, wherein P1 is obtained by a gel polymerization process of at least one non-ionic or anionic 10 monomer in the presence of: - at least 1% by weight of a polymer P3, said polymer P3 contains at least one hydrophobic monomer, or - at least one hydrophobic monomer, the polymeric composition CP1 comprising from 0,1% to 20% by weight of the at least one 15 hydrophobic monomer, said hydrophobic monomer being polymerized. The invention also relates to an ore agglomerate containing between 2,000 and 50,000 ppm of this binding composition.

21: 2025/03024. 22: 2025/04/10. 43: 2025/10/24

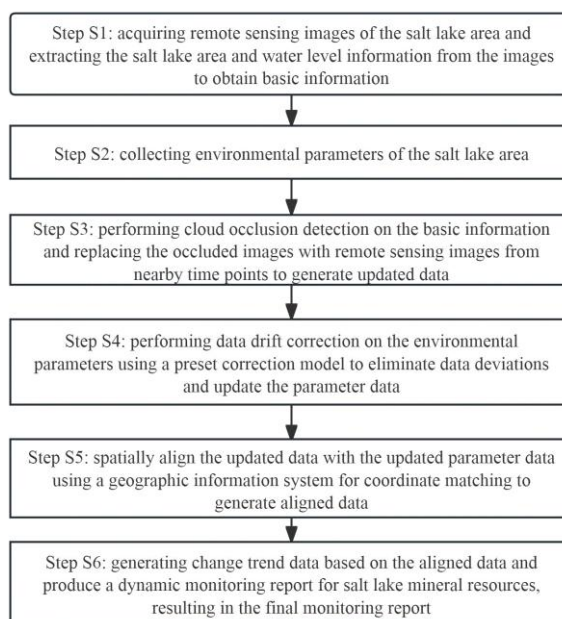
51: G01N

71: Qinghai Provincial Qaidam Comprehensive
Geological and Mineral Exploration Institute (Qinghai
Salt Lake Geological Survey Institute), Qinghai
Geological Survey72: JING Zhicheng, LU Wenquan, LUO Changhai,
BAO Shanbin, LIU Jiubo, TONG Yongjun, HAN
Guang, YANG Yuzhen**54: DYNAMIC MONITORING METHOD FOR SALT
LAKE MINERAL RESOURCES**

00: -

The invention discloses a dynamic monitoring method for salt lake mineral resources. The method includes the following steps: acquiring remote sensing images of the salt lake area and extracting the salt lake area and water level information from the images to obtain basic information; collecting

environmental parameters of the salt lake area; performing cloud occlusion detection on the basic information and replacing the occluded images with remote sensing images from nearby time points to generate updated data; performing data drift correction on the environmental parameters using a preset correction model to eliminate data deviations and update the parameter data; spatially align the updated data with the updated parameter data using a geographic information system for coordinate matching to generate aligned data; generating change trend data based on the aligned data and produce a dynamic monitoring report for salt lake mineral resources, resulting in the final monitoring report.



21: 2025/03025. 22: 2025/04/10. 43: 2025/10/24

51: G01N

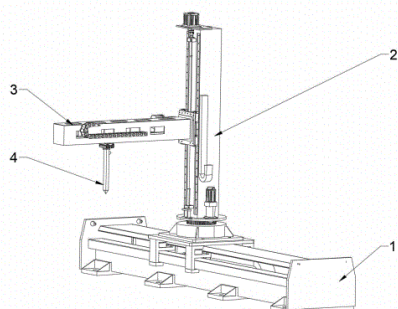
71: Anhui Science And Technology University

72: QIAO, Yinhu, SUN, Zhicheng, ZHANG, Jiajun,
DAI, Leifeng, GUAN, Jingwei**54: ADAPTIVE INTELLIGENT GRAIN SAMPLING
DEVICE**

00: -

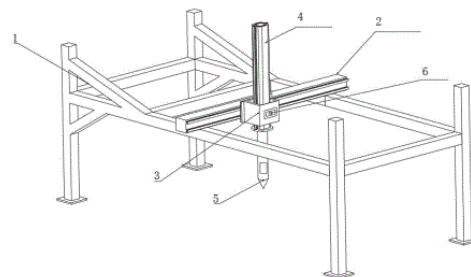
The invention discloses an adaptive intelligent grain sampling device consisting of a frame, an upright column, a mechanical arm, a sampling rod device, etc., and having a servo motor, a gear, a rack and other transmission systems to realize the lateral movement and rotation of the column and the up

and down movement of the mounting plate. The mechanical arm is connected to the carriage by a synchronous pulley drive, and the sampling rod is equipped with vibration and pressure sensing devices to ensure deep sampling and safety. The device has a reasonable structure, strong adaptability, high efficiency and reliability to complete the task of grain sampling, and has a wide range of application prospects and technical advantages.

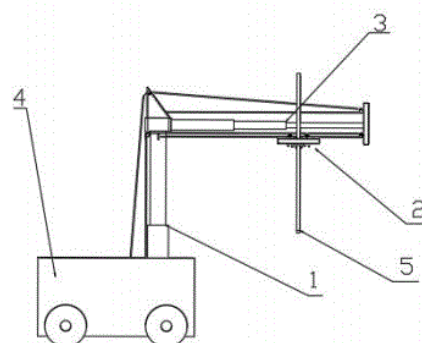


21: 2025/03026. 22: 2025/04/10. 43: 2025/10/24
51: G01N
71: Anhui Science And Technology University
72: ZHANG, Chunyan, DAI, Leifeng, ZHANG, Jiajun, SUN, Zhicheng, WANG, Jue
54: AUTOMATIC SAMPLER
00: -

Disclosed is an automatic sampler, which includes a frame. A movable beam is fixedly mounted on a top of the frame; a moving square pipe is fixedly mounted on a side edge of the beam, and is fixedly connected with a side face of the beam through a fixed column mounted inside the moving square pipe; a telescopic pipe is fixedly mounted inside the moving square pipe; a sampling pipe is connected inside the telescopic pipe; and a camera is fixedly mounted outside the moving square pipe. According to the automatic sampler, the movable beam and the frame are matched, the beam is made to move on the frame, and the sampling pipe can move back and forth within a specified position; and the telescopic pipe is arranged to make the sampling pipe move up and down, thereby achieving an objective of sampling at different depths.



21: 2025/03027. 22: 2025/04/10. 43: 2025/10/24
51: G01N
71: Anhui Science And Technology University
72: ZHANG, Chunyan, ZHANG, Jiajun, SUN, Zhicheng, DAI, Leifeng, SONG, Shuqiang
54: TELESCOPIC MOVABLE SAMPLER
00: -
Disclosed is a telescopic movable sampler. A telescopic pipe positioned on a top of the sampler is secured to a bottom of a column sleeve of a lifting column; a telescopic inner pipe extends into the column sleeve from an upper end of the column sleeve; a cylinder body of a telescopic oil cylinder is fixed with the column sleeve, and a piston rod of the telescopic oil cylinder is fixed with the telescopic inner pipe; a sampling mechanism is positioned at upper ends of two steel ropes; a cylinder body of a sampling rod oil cylinder is fixed with a frame, and a piston rod of the sampling rod oil cylinder is fixed with a sampling rod; a cavity is formed in the sampling rod; the sampling rod is provided with a sampling hole, and an upper end of the cavity is communicated with an external negative pressure source.

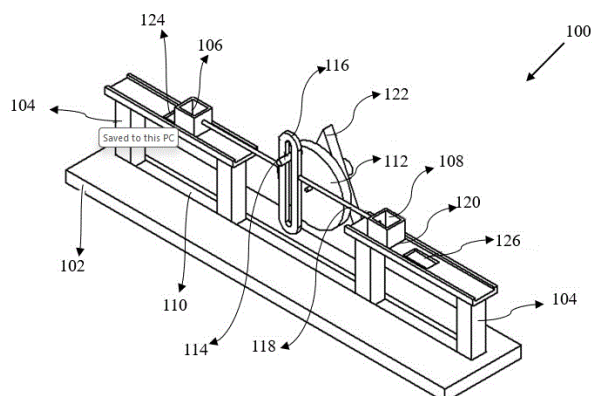


21: 2025/03028. 22: 2025/04/10. 43: 2025/10/24
51: B27K; B65H; C40B
71: Dr. B. R. Ambedkar National Institute of Technology, Dr. Dushyant Singh, Dr. Saurabh

Kango, Dr. Rajeev Verma, Dr. Varun Sharma, J Sharath Kumar
 72: Dr. Dushyant Singh, Dr. Saurabh Kango, Dr. Rajeev Verma, Dr. Varun Sharma, J Sharath Kumar
54: AN APPARATUS FOR CREATING MICRO-PATTERNS ON SOLID SURFACES

00: -

The inventions relate to an apparatus (100) for creating a micro-pattern on a surface (S) of a solid material. The apparatus (100) comprises of a foundation (102), a piston gun assembly (104) mounted on the foundation (102), the piston gun assembly (104) having a first piston (106) and a second piston (108), each having a bottom side provided with an emery paper (120), an elliptical slot (116) connected to the first piston (106) and the second piston (108) via a connecting rod (118), a spinner (112) including an extended pin (114) inserted into the elliptical slot (116), the spinner (112) configured to rotate manually by a user, wherein the rotation of the spinner (112) causes a back-and-forth movement of the first piston (106) and the second piston (108) through the connecting rod (118). Two sample slots (124) (126) are positioned on the piston gun assembly (104) to securely hold two surfaces (S1) (S2) of the solid material in alignment with the emery paper (120). The back-and-forth movement of the first piston (106) and the second piston (108) applies pressure on the two surfaces (S1) (S2) of the solid material against the emery paper (120), thereby creating micro-patterns on the surfaces (S1) (S2).

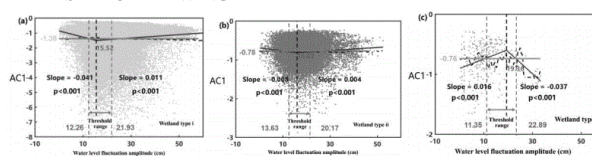


21: 2025/03029. 22: 2025/04/10. 43: 2025/10/24
 51: G06F
 71: Beijing Normal University
 72: LIU, Qiang, GAN, Luoyang, LI, Shuzhen, WU, Jianfei, WANG, Xuan, LI, Chunhui

33: CN 31: 202411649435.9 32: 2024-11-19
54: METHOD FOR CALCULATING EFFECTIVE HYDROLOGICAL CONNECTIVITY INTENSITY INDEX OF WETLAND BASED ON INSAR

00: -

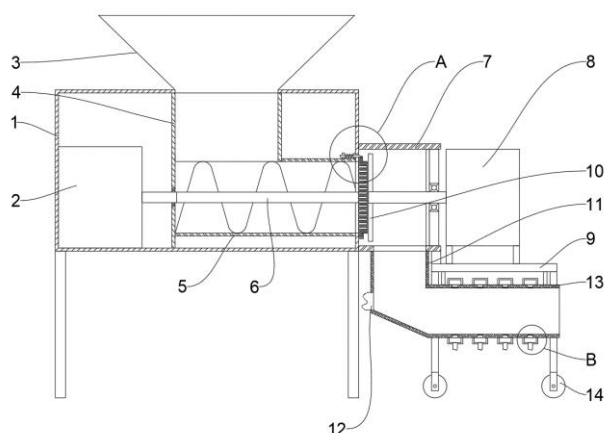
The present disclosure belongs to the technical field of water resource planning and management, and specifically relates to a method for calculating an effective hydrological connectivity intensity index range of a wetland based on InSAR technology, including following steps: acquiring image data of a region to be calculated; identifying all wetland patches within a water body region; classifying the wetland patches into different effective hydrological connectivity type groups; calculating a resilience value of each wetland patch; constructing a water level fluctuation-ecological resilience curve under different effective hydrological connectivity scenarios, performing segmented fitting on water level fluctuations to generate a fitting line, calculating a mean of resilience of the wetland patches under this effective hydrological connectivity type, and generating a resilience mean line, two intersection points of the resilience mean line and the fitting line forming an effective hydrological connectivity intensity index range.



21: 2025/03030. 22: 2025/04/10. 43: 2025/10/24
 51: B01J
 71: Henan University of Urban Construction
 72: ZHANG Qiang, WEI Pengfei, LI Zhi, HAN Yu, QI Mengying, JING Haoran, NIE Xuanli
54: GRANULATION DEVICE FOR PRODUCING COMPOSITE MICROBIAL FERTILIZERS
 00: -

The invention belongs to the technical field of granulation equipment and particularly relates to a granulation device for producing composite microbial fertilizers. The device includes: an extrusion strip-forming section, an outlet section of the extrusion strip-forming section is connected to a granulation section, and the granulation section is connected to a cooling channel. The cooling channel includes a second vertical pipe connected to a bottom end of the granulation section, a bottom end of the second

vertical pipe is connected to a second horizontal pipe, the second horizontal pipe is perpendicular to the second vertical pipe, a side wall of the second vertical pipe is connected to a first air inlet, the first air inlet is located away from the second horizontal pipe, and the first air inlet is connected to an external air supply device. The second horizontal pipe is provided with multiple second air inlet groups, the multiple second air inlet groups are evenly spaced along a length direction of the second horizontal pipe, each second air inlet group includes multiple second air inlets, the multiple second air inlets are evenly spaced circumferentially, and the multiple second air inlets are all connected to the external air supply device. A wind speed at the first air inlet is less than a wind speed at the second air inlets. The invention effectively avoids the problem of particle adhesion.



21: 2025/03031. 22: 2025/04/10. 43: 2025/10/24
51: G06Q

71: JIANGXI UNIVERSITY OF FINANCE AND ECONOMICS

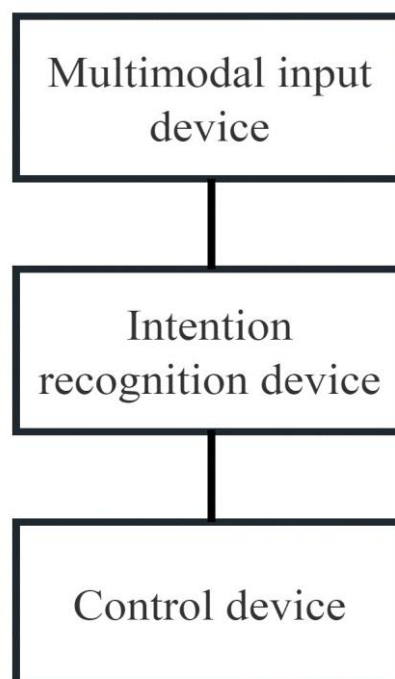
72: YI Tong

54: METHOD FOR MEASURING THE COMPLEXITY OF UML CLASS DIAGRAMS

00: -

The present invention discloses a method for measuring the complexity of UML class diagrams, including: given a UML class diagram to be analyzed, constructing a decision matrix, normalizing the decision matrix to obtain a normalized matrix of the UML class diagram; reordering the normalized matrix of the UML class diagram to obtain a row-sorted matrix; constructing a multi-objective optimization model and calculating the optimal

weight vector of the evaluation indicators for the multi-objective optimization model; aggregating the data in the row-sorted matrix using the optimal weight vector of the evaluation indicators to obtain the comprehensive attribute values of each UML class diagram. The invention applies the existing multi-attribute decision-making method based on the OWA operator to the measurement of UML class diagrams. Through the calculation results of the OWA operator measurement, the complexity of object-oriented software can be scientifically and reasonably measured.



21: 2025/03032. 22: 2025/04/10. 43: 2025/10/24
51: G06F

71: SHI Hezi University

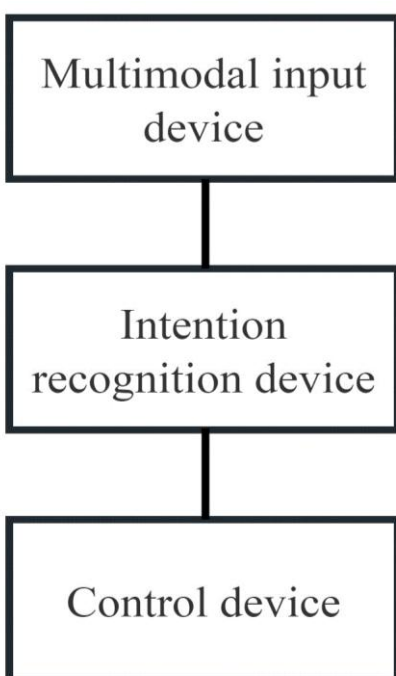
72: WEI Zikai, TANG Haocheng, ZHAO Yongman, ZHANG Ruoyu

54: CONTROL DEVICE OF MULTIMODAL HUMAN-COMPUTER INTERACTION COLLABORATIVE IN COMPLEX AGRICULTURAL SCENE

00: -

The invention discloses a multimodal human-computer interaction collaborative control device in a complex agricultural scene, which includes a multimodal input device, an intention identification device and a control device; the multimodal input device is used for inputting multimodal data in the

process of human-computer interaction; the intention recognition device is used for classifying the multi-dimensional interaction intentions of users based on the multimodal data; the control device is used to complete the cooperative control based on the classification result. By integrating various interactive modes such as voice, gesture and touch control, the invention significantly improves the flexibility and adaptability of human-computer interaction. On the whole, the device not only improves the intelligent level of agricultural production, but also enhances the convenience and reliability of operation, which provides strong technical support for the large-scale application of smart agriculture.

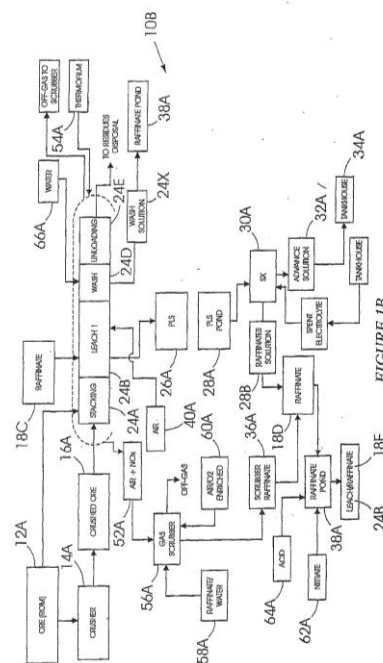


21: 2025/03034. 22: 2025/04/02. 43: 2025/10/29
 51: C22D
 71: BHP CHILE INC
 72: CHIBWANA, Clement Chilowa
 33: ZA 31: 2022/10270 32: 2022-09-16
54: OXIDATIVE NITRATE HEAP LEACHING PROCESS

00: -

A method of extracting copper from a sulfide mineral ore including the steps of stacking the ore to form a heap, in a leach step, irrigating the heap with a first irrigation solution containing an acid nitrate solution and nitrite thereby to cause oxidation of sulfide minerals within the heap, oxidising nitric oxide gas

released during the oxidation of the sulfide minerals within the heap by oxygen to form nitrogen dioxide, and hydrolysing the nitrogen dioxide to form nitric acid and/or nitrous acid in the first irrigation solution within the heap, to continue the leach step and to reduce the loss of nitric oxide from the heap.



21: 2025/03068. 22: 2025/04/10. 43: 2025/10/28
 51: C12N

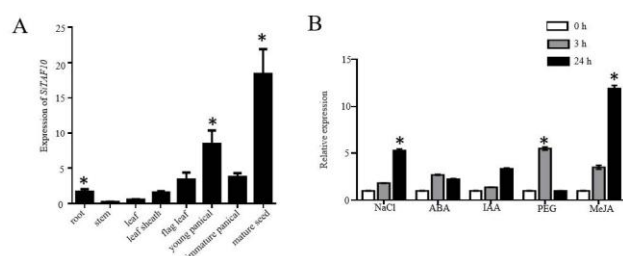
71: SHANDONG AGRICULTURAL UNIVERSITY
 72: Changai WU, Meng ZHANG, Yichao BAI,
 Shenghui XIAO, Chengchao ZHENG

54: A SETARIA ITALICA TAF10 GENE AND ITS CLONING METHOD AND APPLICATION

00: -

The present invention provides a setaria italica TAF10 gene and its cloning method and application. The present invention isolates and clones the gene SiTAF10 from setaria italica grains with nucleotide sequence as shown in SEQ ID NO.1, and fluorescence quantitative expression analysis indicates its involvement in a variety of abiotic stresses. Compared to the wild-type lines, Setaria italica lines overexpressing the SiTAF10 gene showed more than 2-fold increase in survival and chlorophyll content, and significant reduction in reactive oxygen species (ROS) accumulation under both salt and drought stresses. Setaria italica lines overexpressing the SiTAF10 gene also showed

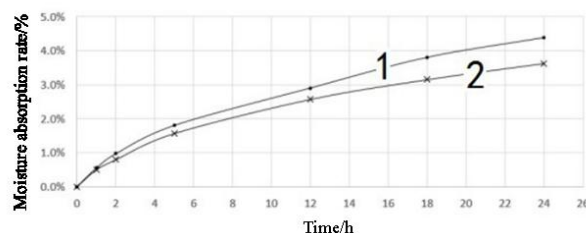
17.6% ~29.4% elevation in flavonoid content compared to the wild-type lines. These findings indicate that the SiTAF10 gene and its encoded protein provided by the present invention can significantly improve the drought resistance, salt tolerance and flavonoid content of *Setaria italica* plants. Therefore, SiTAF10 gene is a new gene resource for drought and salt tolerance and functional active substance enhancement in *setaria italica* plants, which will have a good application prospect.



21: 2025/03069. 22: 2025/04/10. 43: 2025/10/28
51: B27M; B27N
71: GUANGXI SUNWAY WOOD-TECH CO., LTD.
72: SU, Huanfeng, LI, Luwen, SHI, Zhifeng, TANG, Chenyang, HUANG, Jin, GUO, Chongjun
33: CN 31: 202411718648.2 32: 2024-11-28
54: A PREPARATION METHOD FOR FIBERBOARD SUITABLE FOR SUPER-LEVELING ELECTROSTATIC POWDER COATING
00: -

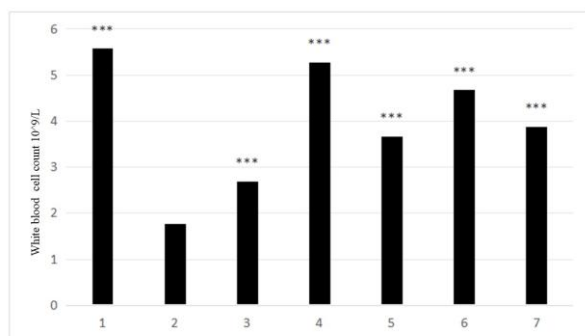
The present invention discloses a preparation method for fiberboard suitable for an super-leveling electrostatic powder coating process, wherein eucalyptus wood and mixed wood are used as raw wood materials and processed to obtain fibers; formaldehyde and melamine are mixed and reacted with urea in three stages to prepare a melamine-modified urea-formaldehyde resin; the fibers are subjected to adhesive application using the prepared melamine-modified urea-formaldehyde resin at an application amount of 290–300 kg/m³, followed by drying and forming to obtain a fiberboard mat; the fiberboard mat is then hot-pressed to obtain a board having a density controlled at 820–840 kg/m³, a core layer proportion greater than 90%, and a minimum core layer density greater than 730 kg/m³; the board is subsequently cooled and conditioned to obtain the fiberboard suitable for the super-leveling electrostatic powder coating process. The fiberboard prepared according to the present invention exhibits

characteristics of moisture resistance, high strength, and excellent structural stability, effectively solving the problem of cracking that occurs in boards after powder coating during the super-leveling process.



21: 2025/03070. 22: 2025/04/10. 43: 2025/10/28
51: A61K; A61P
71: BEIJING UNIVERSITY OF CHINESE MEDICINE
72: NI, Lei
33: CN 31: 2024118062082 32: 2024-12-10
54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING LEUKOPENIA, ITS PREPARATION METHOD, AND APPLICATION
00: -

The present invention provides a traditional Chinese medicine (TCM) composition for treating leukopenia, its preparation method, and application. The invention belongs to the technical field of traditional Chinese medicine. The TCM composition for treating leukopenia provided by the invention consists of the following raw materials in parts by weight: 10-20 parts of ginseng, 10-30 parts of glossy ganoderma (lingzhi), 15-30 parts of milkvetch root (huangqi), 10-20 parts of solomonseal rhizome (huangjing), and 10-30 parts of venison. The components in TCM composition of the invention can synergistically promote bone marrow hematopoiesis, accelerate the production and release of white blood cells, significantly improve leukopenia caused by bone marrow suppression, enhance the body's immunity, improve the quality of life of patients, and exhibit high safety with minimal side effects, making it suitable for long-term use.

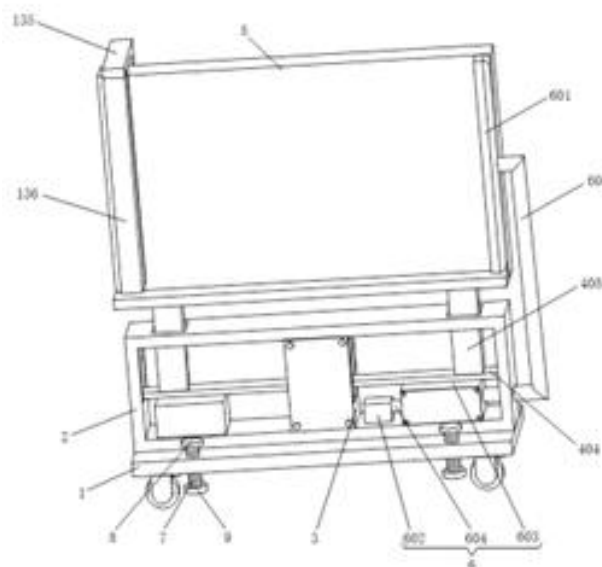


21: 2025/03071. 22: 2025/04/11. 43: 2025/10/28
 51: B43L
 71: ZHENGZHOU UNIVERSITY OF AERONAUTICS
 72: LU, Yue

54: AUTOMATED BLACKBOARD WRITING DEVICE FOR FRENCH TEACHING

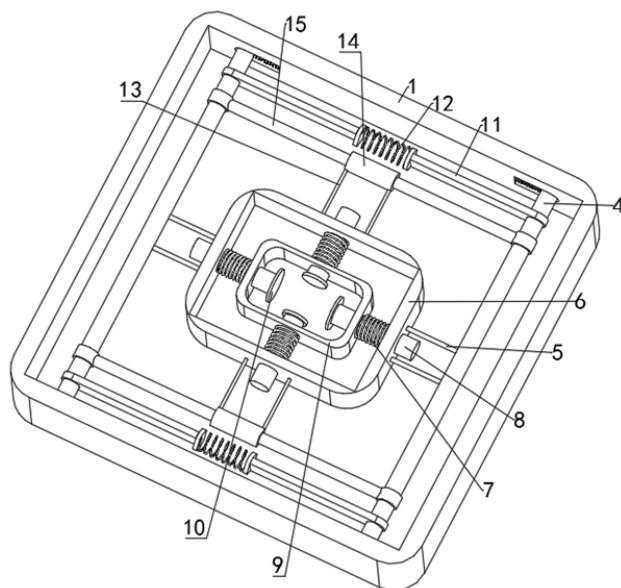
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The present invention discloses an automated blackboard writing device for French teaching, addressing difficulties in wiping and chalk dust removal. The device includes a bottom plate with a support frame fixed on top, housing a driving box and lifting mechanism. A writing board allows teachers to present French content, while the support frame stabilizes it. A servo motor, threaded rod, threaded sleeve, L-shaped connecting plate, and wiping plate enable automatic erasure of chalk markings. A vacuum fan, pipe, dust collection box, connecting pipe, and vacuum hood work together to collect chalk dust from the board surface. This prevents airborne dust, reduces environmental pollution, minimizes health risks to teachers, and enhances operational safety.



21: 2025/03072. 22: 2025/04/11. 43: 2025/10/28
 51: H05K
 71: XINYU UNIVERSITY
 72: XI, Jun, PENG, Xiaojun, LIAO, Zhongming, FANG, Jianxin, ZHANG, Yu, HUANG, Shixin
54: PRODUCT PROTECTION DEVICE BASED ON QUANTUM INFORMATION SAFETY
 00: -

The present invention discloses a product protection device for quantum information safety, in the field of electronic product protection. The device includes a first protective shell with a symmetrically and flexibly connected first sliding rod. A buffer protection component is mounted on the rod, comprising a first spring, placement box, second spring, buffer rod, and third spring. When external force causes vibration, the first spring deforms to buffer the placement box. The second spring cushions movement of the sliding rod, while the buffer rods move horizontally to counteract shell-induced shaking. This coordinated buffering between the springs and placement box absorbs vibrations in both horizontal and vertical directions, protecting the internal product and reducing interference.



21: 2025/03074. 22: 2025/04/11. 43: 2025/10/28
51: G01V

71: Qinghai Provincial Qaidam Comprehensive Geological and Mineral Exploration Institute (Qinghai Salt Lake Geological Survey Institute)

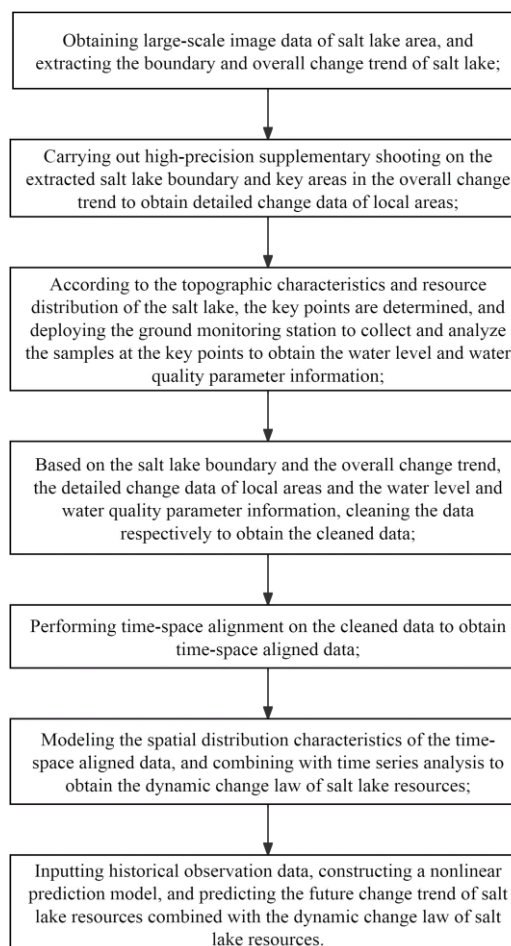
72: YANG Yuzhen, JING Zhicheng, ZHANG Xiaodong, HAN Guang, TONG Yongjun, LIU Jiubo, GUO Ruirui, QI Shanzhi, WANG Qingchuan, HU Yan, MA Hongtao

54: MONITORING METHOD FOR DYNAMIC CHANGE PATTERNS OF MODERN SALT LAKE RESOURCE QUANTITIES

00: -

The present invention discloses a monitoring method for dynamic change patterns of modern salt lake resource quantities, including: acquiring large-scale image data of the salt lake area and extracting the salt lake boundary and overall change trends; performing high-precision supplementary photography on key areas within the extracted salt lake boundary and overall change trends to obtain detailed change data of local areas; determining key points based on the topographic features and resource distribution of the salt lake, deploying ground monitoring stations to conduct fixed-point data collection at the key points, and obtaining water level and water quality parameter information; performing data cleaning separately based on the salt lake boundary and overall change trends, detailed change data of local areas, and water level and water quality parameter information to obtain cleaned data; performing spatiotemporal alignment on the cleaned data to obtain spatiotemporally

aligned data; modeling the spatial distribution characteristics of the spatiotemporally aligned data and combining time series analysis to obtain the dynamic change patterns of the salt lake resource quantities; and predicting future change trends of the salt lake resource quantities.



21: 2025/03075. 22: 2025/04/11. 43: 2025/10/28
51: E21F

71: China Pingmei Shenma Holding Group Co., Ltd., Hunan University of Science and Technology, China University of Mining and Technology, PINGDINGSHAN TIANAN COAL MINING CO., LTD., China University of Mining and Technology-Beijing

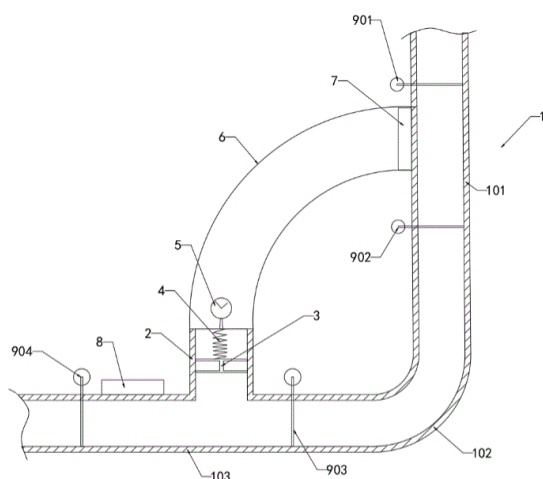
72: Jianguo ZHANG, Guochuan ZHANG, Lei ZHAO, Yuanzhi ZHANG, Genshui WU, Weijian YU, Tairan HAN, Baifu AN, Xiaogang DING, Xuefeng ZHANG, Xiaoguang TIAN, Xuejie DENG, Bizhang TAN, Kailiang TONG, Jiankun QIN, Honglei XING, Kun FANG, Tao HUANG, Wenya DING, Xi HAN, Hongye JI, Mingzhi WANG

33: CN 31: 2024116198393 32: 2024-11-13

**54: SOLID WASTE FILLING PIPELINE
STRUCTURE IN COAL MINE**

00: -

The present invention provides a solid waste filling pipeline structure in coal mine, which belongs to the field of coal mine pipeline technology and aims to solve the problem that during the flow of the filling body in the coal mine underground filling pipeline, pipe blockage and water hammer are likely to occur at the pipe bend, and the pipeline is easily damaged if not dealt with for a long time. The structure comprises a pipe body, and a plurality of stop valves are arranged on the pipe body. The pipe body is composed of a vertical discharge section, a bending section and a horizontal direct current section. A pressure dividing pipe is connected to the upper side of the direct current section, and a piston is slidably arranged in the pressure dividing pipe. The top of the pressure dividing pipe is connected to the piston with adjustable pressure through a sealing member. The movement of the piston can relieve the pressure in the pipe body, thereby protecting the entire pipeline.



21: 2025/03076. 22: 2025/04/11. 43: 2025/10/28

51: E02F

71: Yancheng Teachers University

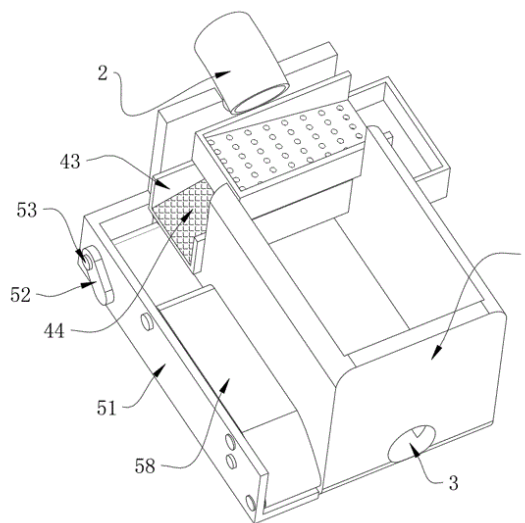
72: Juan WANG

**54: DREDGING DEVICE FOR WATER
ENVIRONMENT ECOLOGICAL MANAGEMENT**

00: -

The present invention relates to the field of water environment ecological management, and discloses a dredging device for water environment ecological

management, including a treatment equipment box, a sewage pumping device discharge pipe, and a water outlet. The treatment equipment box is provided with a filtering mechanism, and the treatment equipment box is provided with a separation mechanism. The filtering mechanism includes a slideway, and the left and right inner walls of the slideway are slidably connected with a movable frame, and the top inner wall of the movable frame is fixedly connected with a stone filter net, and the left and right inner walls of the slideway are slidably connected with a sliding frame, and the top inner wall of the sliding frame is fixedly connected with a sludge filter net, and the left inner wall of the treatment equipment box is fixedly connected with a driving machine. In the present invention, by setting structures such as deflection plates and stone filter nets, the stones in the extracted river channel sludge are filtered to prevent the stones from clogging the subsequent discharge collection pipeline, and at the same time, the filtering component is accelerated to accelerate the filtering and discharging effect, and the sludge is shaken off to make the filtering effect better.



21: 2025/03077. 22: 2025/04/11. 43: 2025/10/28

51: A01M; B64C

71: JI'AN COLLEGE

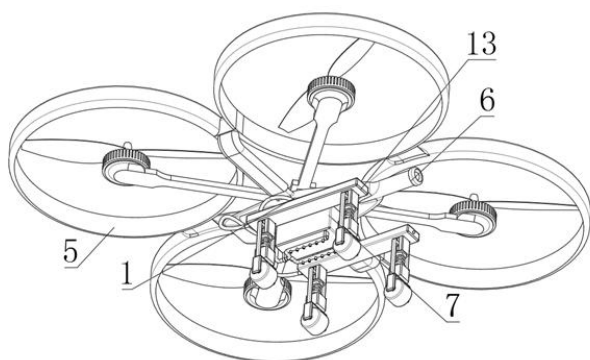
72: LU, Jihong, TANG, Jun, YANG, Huan, HE, Yihong, ZHU, Guobing

33: CN 31: 2025102776566 32: 2025-03-10

**54: PLANT PROTECTION UNMANNED AERIAL
VEHICLE WITH ANTI-COLLISION MECHANISM**

00: -

Disclosed is a plant protection drone with an anti-collision mechanism. The device comprises a UAV body and a fixed rod connected to its outer side. An anti-collision device is mounted on the UAV's outer surface, including an energy supply unit (above), an irrigation unit (below), and a protection unit (below). During descent, landing is achieved as movable wheels contact the ground. When the wheels touch the surface, a connecting rod pushes a movable block along the upright rod, compressing a damping rod and buffer spring. This mechanism absorbs impact and provides buffering protection during landing. The cooperation between the wheels, connecting rod, damping rod, and spring reduces shock and enhances landing safety, thereby extending the UAV's service life. The irrigation unit facilitates plant protection operations, while the structural arrangement of components improves the UAV's stability and resistance to collision during operation.



21: 2025/03078. 22: 2025/04/11. 43: 2025/10/28
51: A63B

71: Maxim Andreevich Chernyaev

72: Maxim Andreevich Chernyaev

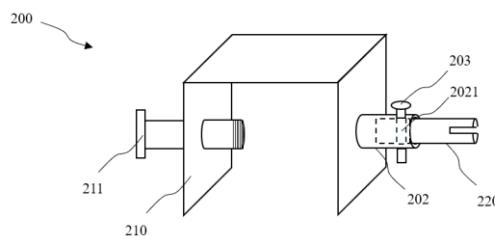
33: RU 31: 2025104896 32: 2025-03-03

54: UNIVERSAL POWER BAND FIXING DEVICE FOR A POWER RACK WITH AN ADDITIONAL LOCKING MECHANISM

00: -

The claimed invention relates to sports equipment, specifically to fixing devices for resistance bands (or fitness bands) used in exercises with power racks. The technical effect achieved is the ability to mount the fixing device on any type of power rack having a rectangular profile. The invention discloses a resistance band fixing device (200) comprising a U-

shaped part (210) with bushings (201, 202) mounted on its side walls, wherein: one bushing (201) is through-threaded with internal threads and accommodates a clamping element (211) via threaded connection; the second bushing (202) contains a through hole (2021) and houses a band securing element (220) featuring a slot (221) and through hole (2201); and the band securing element (220) is locked within bushing (202) by a removable fastener (203) inserted through aligned holes (2021, 2201).



21: 2025/03079. 22: 2025/04/11. 43: 2025/10/28
51: A23K

71: SHANXI DATONG UNIVERSITY, DATONG CITY AGRICULTURAL GERMPLASM RESOURCES PROTECTION EXPERIMENTAL CENTER, DATONG MODERN AGRICULTURAL DEVELOPMENT CENTER, YANGGAO COUNTY XIAOYANG ANIMAL HUSBANDRY CO., LTD, YOUYU COUNTY MODERN AGRICULTURAL DEVELOPMENT SERVICE CENTER, SHANXI AGRICULTURAL UNIVERSITY

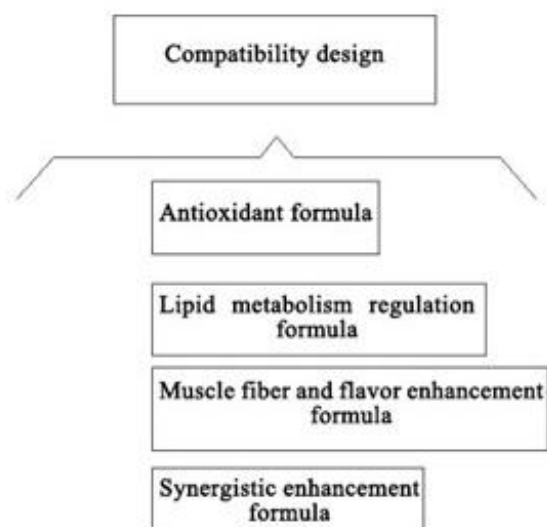
72: BAI, Hai, CHANG, Sufang, GONG, Weina, WU, Xiaoyang, CAO, Zhiwu, HU, Guangying, FAN, Jianfang, CAO, Riliang

54: COMPATIBILITY DESIGN OF COMPOUND PLANT EXTRACT FOR IMPROVING MEAT QUALITY

00: -

The present invention discloses a compatibility design of a compound plant extract for improving meat quality, which comprises: antioxidant formula, lipid metabolism regulation formula, muscle fiber and flavor enhancement formula, and synergistic enhancement formula; The antioxidant formula accounts for 35%, including 15% tea polyphenols, 10% rosemary extract, and 10% eucommia ulmoides leaf polyphenols; The lipid metabolism regulation formula accounts for 30%, including 10% cinnamaldehyde, 10% tangerine peel extract, and

10% allicin; The muscle fiber and flavor enhancing formula accounts for 25%, including 10% astragalus polysaccharide, 8% mulberry leaf extract, and 7% licorice flavonoids; It can inhibit lipid oxidation, extend shelf life, improve tenderness, promote intramuscular fat deposition, improve marble texture distribution, enhance flavor amino acid content, increase immunoglobulin levels, reduce stress-induced meat deterioration, inhibit the production of gamey substances, improve meat color and redness, and enhance meat quality from multiple aspects.



21: 2025/03081. 22: 2025/04/11. 43: 2025/10/28

51: G06Q

71: NINGXIA NORMAL UNIVERSITY

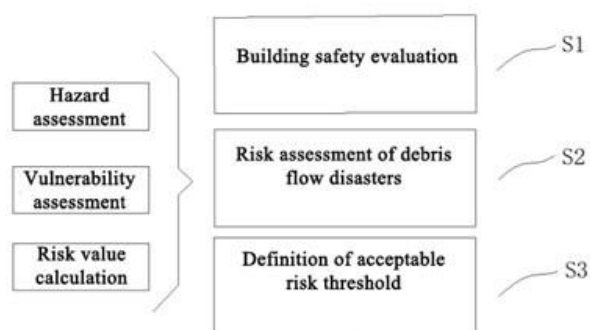
72: MIAO, Cheng

54: DISASTER ACCEPTABLE RISK THRESHOLD DEFINING METHOD BASED ON BUILDING SAFETY

00: -

Disclosed is a disaster acceptable risk threshold defining method based on building safety, which includes: Building safety evaluation: by using high-precision remote sensing images to interpret and obtain spatial distribution information of buildings, combined with field surveys to record building attributes such as distance from ditches, number of floors, structural type, and service life; Select the distance between buildings and ditches, building attributes, and structural types to form a multivariate indicator set, and establish nonlinear classification boundaries through support vector machine models;

Risk assessment of debris flow disasters: hazard assessment, vulnerability assessment, and risk value calculation; S3. Defining of acceptable risk thresholds: dynamically linking building safety with acceptable risks, incorporating building safety as a core variable into the definition of disaster acceptable risk thresholds, solves the problem of insufficient quantification of disaster bearing body protection capabilities in acceptable risk assessment in existing



21: 2025/03082. 22: 2025/04/11. 43: 2025/10/28

51: G06F

71: NINGXIA NORMAL UNIVERSITY

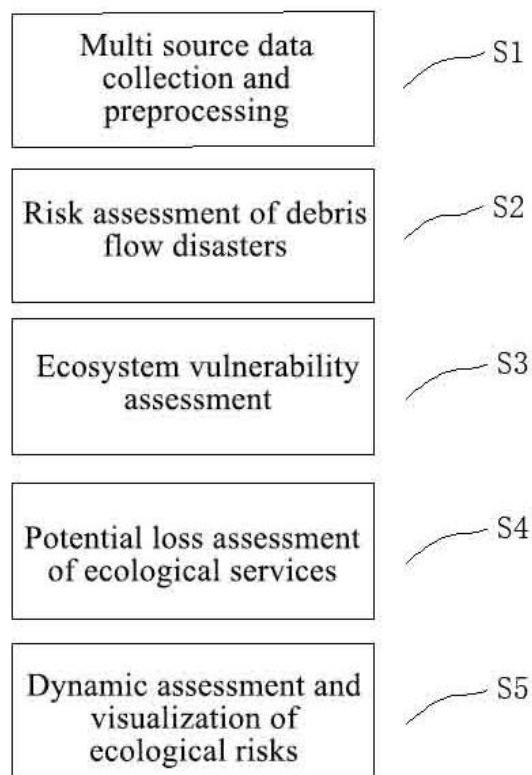
72: MIAO, Cheng

54: DYNAMIC ASSESSMENT METHOD FOR ECOLOGICAL RISK OF DEBRIS FLOW DISASTERS BASED ON MULTI SOURCE DATA COUPLING

00: -

Disclosed is a dynamic assessment method for ecological risk of debris flow disasters based on multi source data coupling, which includes, multi source data collection and preprocessing; risk assessment of debris flow disasters; ecosystem Vulnerability Assessment; potential loss assessment of ecological services; dynamic assessment and visualization of ecological risks; By collecting high-precision remote sensing images, basic geographic information data, meteorological data, historical data of debris flow disasters, and socio-economic data, and using GIS platform for spatial registration, normalization processing, and standardized storage of the data, an ecological risk index (ERI) model is constructed to dynamically couple the hazard of debris flow, ecosystem vulnerability, and ecological service loss, breaking through the limitations of single evaluation and comprehensively reflecting the

ecological risk under disaster stress; Reduce the cost of disaster prevention and control, provide scientific basis for regional ecological restoration and ecological tourism layout, indirectly promote regional economic growth.



21: 2025/03084. 22: 2025/04/11. 43: 2025/11/10

51: G06Q

71: PRESLEY MTHOBISI MAKHUBEDU

72: PRESLEY MTHOBISI MAKHUBEDU

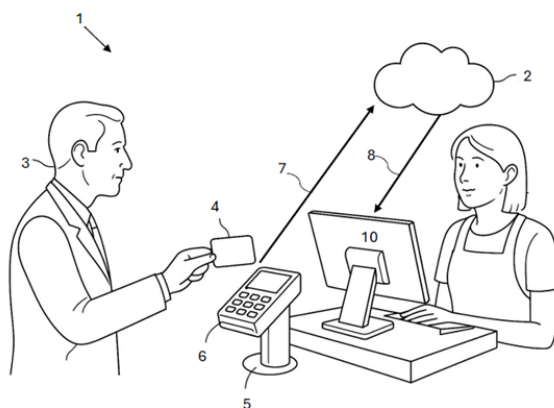
33: ZA 31: 2024/02631 32: 2024-04-02

54: A SYSTEM AND METHOD FOR MONITORING FINANCIAL TRANSACTIONS BASED ON DECLARED INCOME

00: -

This invention relates to a system and method for monitoring financial transactions based on declared income more specifically but not limited to a system and method for monitoring buying potential based on an individual's declared income. The invention is applicable in a wide range of economic, governmental, and regulatory contexts, particularly in the enforcement of income-related compliance frameworks. the method comprising: storing, in a database, income information declared by an individual; associating a unique identifier with the

individual; receiving, at a transaction terminal, a transaction request comprising a transaction amount and data relating to the individual's unique identifier; communicating with the database to retrieve a spending balance based on the individual's declared income; and transmitting a transaction authorization message to an output device associated with the transaction terminal based on a comparison of the transaction amount with the retrieved spending balance.



21: 2025/03123. 22: 2025/04/14. 43: 2025/10/28

51: C12N

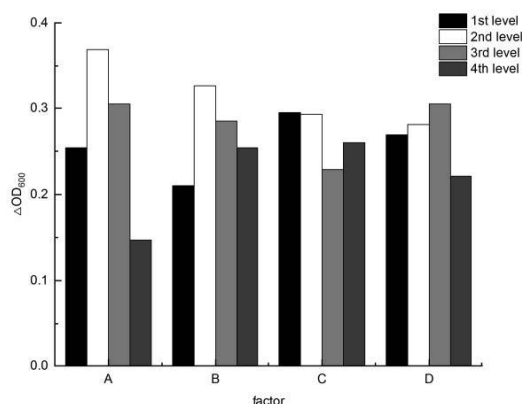
71: WUYI UNIVERSITY

72: WANG; Han, ZHANG; Liufang, WANG; Zuhui, LIU; Xingyu, SHI; Yingluo, LIN, Zhichao

54: CULTURE METHOD FOR MEYEROZYMA GUILLIERMONDII

00: -

The present invention relates to the technical field of strain culture. The present invention provides a culture method for *Meyerozyma guilliermondii*, which comprises the following steps: inoculating *Meyerozyma guilliermondii* into a culture medium, and culturing on a shaker. According to the present invention, it is determined from tests that the effect of external environmental factors on the growth of the strain in the present invention is as follows in sequence: temperature > pH > carbon source type > shaker rotation speed. Finally, an optimal growth condition for the strain is determined by combining single factor tests of temperature and pH. It is determined from an abietic acid degradation test that the COD removal efficiency of a matrix with different strain addition amounts ranges from 63.8%-74.1%, and the strain addition amount does not have much impact on the COD removal effect.



21: 2025/03124. 22: 2025/04/14. 43: 2025/10/28

51: A61K

71: ZHANG, Lu

72: ZHANG, Lu

54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR COLITIS

00: -

The present invention relates to the technical field of traditional Chinese medicine herbs. The present invention discloses a traditional Chinese medicine composition for colitis. The traditional Chinese medicine composition includes the following raw materials in parts by weight: 25-35 parts of *Astragalus membranaceus*, 10-15 parts of *Daphniphyllum calycinum*, 1-3 parts of *Panax ginseng*, 15-25 parts of *Artemisia annua*, 2-6 parts of *Eriobotrya japonica* leaves, 4-8 parts of *Cinnamomum cassia*, 25-35 parts of *Sargentodoxa cuneata*, 25-35 parts of *Patrinia scabiosaefolia*, 8-12 parts of *Lysimachia christinae*, 12-18 parts of *Trionyx sinensis*, 12-18 parts of *Amyda sinensis*, 25-35 parts of *Lonicera japonica*, 12-18 parts of *Schizonepeta tenuifolia*, 4-8 parts of *Agastache rugosa*, and 4-8 parts of *Commiphora myrrha*. The traditional Chinese medicine composition disclosed by the present invention has the following therapeutic effect on 50 cases of ulcerative colitis: after one course of treatment, 35 of the 50 patients were significantly effective, 12 were effective, and 3 were ineffective, with a total effective rate of 94%. The traditional Chinese medicine composition for treating ulcerative colitis according to the present invention may improve the clinical symptoms of ulcerative colitis, and has definite curative effects and small side effects.

21: 2025/03126. 22: 2025/04/14. 43: 2025/10/28

51: B27D

71: HUNAN CITY UNIVERSITY

72: YIN, Canbin, YU, Fang, WANG, Ying, ZHANG, Shusen, ZHU, Chengquan, YI, Jiajun

54: BAMBOO CEMENT PARTICLE BOARD AND MANUFACTURING METHOD THEREFOR

00: -

The present invention provides a bamboo cement particle board and a manufacturing method therefor. Raw materials include the following components by weight: 40-60 parts of Portland cement; 20-30 parts of bamboo shavings; 1-3 parts of sodium silicate; 1-1.5 parts of sodium chloride; 0.5-1.5 parts of calcium hydroxide; and 30-35 parts of water. For the bamboo cement particle board provided by the present invention, wood is replaced with bamboo, such that a lower manufacturing cost is achieved. Compared with cement products, the bamboo cement particle board provided by the present invention has the advantages of light mass, good machining performance including sawing, nailing, planing, punching and grooving, and easy decoration. Compared with wood products, the bamboo cement particle board has high strength, good weather resistance, moisture resistance and waterproof performance, and can be used as a building template for roofs, ceilings, floors, etc.

21: 2025/03127. 22: 2025/04/14. 43: 2025/10/28

51: E02D

71: China Railway 20th Bureau Group Municipal Engineering Co., Ltd, China Railway 20th Bureau Group Co., Ltd

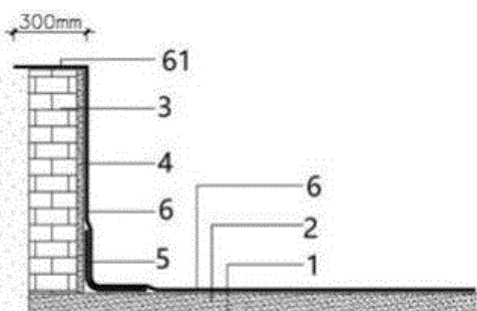
72: REN Dongping, ZHANG Xiaoli, LI Xia, REN Meng, SUO Jianbo, LUO Jingtao, GUI Chunhai, CHEN Yong, WANG Yaming, LI Peiyuan

54: CONSTRUCTION METHOD FOR BASEMENT FOUNDATION PIT WATERPROOF STRUCTURE

00: -

The invention provides a construction method for laying basement floor slab waterproof structure, comprising the following steps: S1: construct a waterproof base layer; S2: create internal and external corners along the waterproof base layer; S3: Paste a waterproof additional layer along the internal and external corners and weak parts of the waterproof base layer, and paste an additional layer of waterproof additional layer on the internal and external corners formed by three adjacent surfaces

and the weak parts; S4: paste a waterproof layer over the entire base surface, wherein the waterproof layer is formed by splicing single-sided adhesive waterproof rolls with the adhesive side facing upward, and reserve and fix an overlapping joint along the top surface of the brick retaining wall; S5: perform compaction treatment on the edge seams between two adjacent single-sided adhesive waterproof rolls; S6: pour concrete on the waterproof layer as a waterproof protective layer. The construction method has low requirements for the base layer, is convenient for construction, simple in process, fast in speed, intuitive and guaranteed in quality, low in cost, and energy-saving and environmentally friendly during construction.



21: 2025/03129. 22: 2025/04/14. 43: 2025/10/28
51: G01D

71: Qinghai Provincial Qaidam Comprehensive Geological and Mineral Exploration Institute (Qinghai Salt Lake Geological Survey Institute)

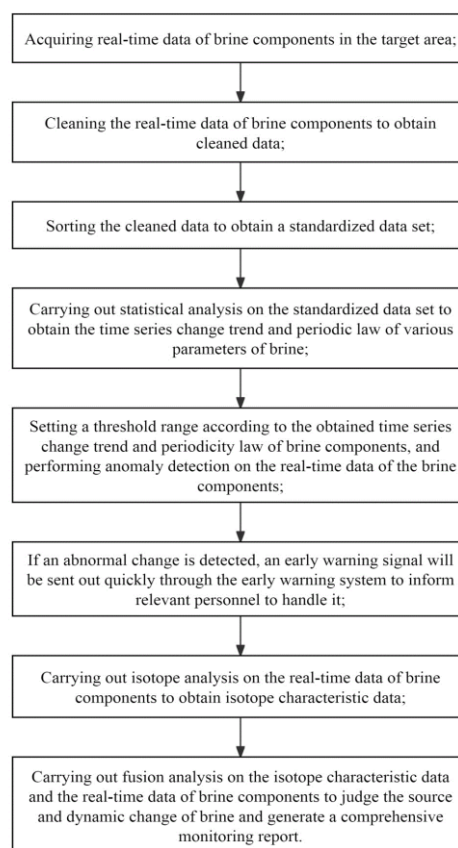
72: TONG Yongjun, HAN Guang, LIU Jiubo, JING Zhicheng, YANG Yuzhen, ZHANG Xiaodong, LU Liang, WANG Qingchuan, HU Yan, HAN Wenkui, YANG Xiaolong, YUAN Wenhui, MA Hongtao

54: METHOD AND SYSTEM FOR DYNAMIC MONITORING OF BRINE CHANGE CHARACTERISTICS DURING SALT LAKE MINING

00: -

The invention discloses a method and a system for dynamic monitoring of brine change characteristics during salt lake mining. The method includes: acquiring real-time data on the brine composition of the target area; performing data cleaning on the real-time brine composition data to obtain cleaned data; organizing the cleaned data to obtain a standardized dataset; conducting statistical analysis on the standardized dataset to obtain the time-series

variation trends and periodic patterns of various brine parameters; based on the obtained time-series variation trends and periodic patterns of the brine composition, setting threshold ranges to perform anomaly detection on the real-time brine composition data; if abnormal changes are detected, rapidly issuing an early warning signal through the warning system to notify relevant personnel for handling; performing isotope analysis on the real-time brine composition data to obtain isotope characteristic data; integrating and analyzing the isotope characteristic data with the real-time brine composition data to determine the source and dynamic changes of the brine, and generating a comprehensive monitoring report.



21: 2025/03130. 22: 2025/04/14. 43: 2025/10/28
51: C07D

71: Henan University of Urban Construction

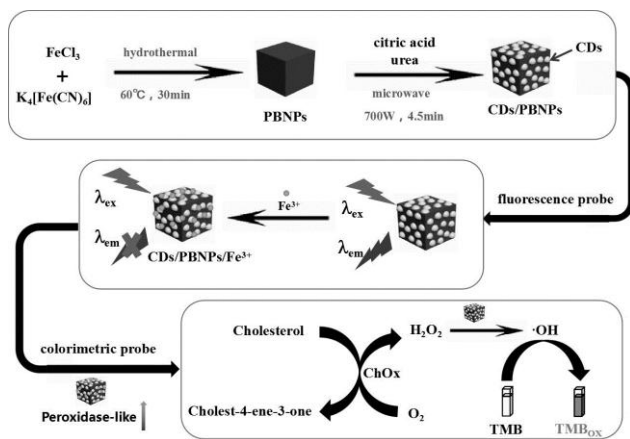
72: SONG Yongxin, JI Feixiang, YANG Hao, YANG Jing, GUO Yan, DANG Liyun, ZHANG Shuaiguo, CHEN Yiang

54: CARBON DOTS/PRUSSIAN BLUE NANOPHASE MATERIALS AND PREPARATION

METHOD THEREOF AND APPLICATION THEREOF AS COLORIMETRIC-FLUORESCENT PROBE

00: -

The invention discloses a carbon dots/Prussian blue nanophase materials and preparation method thereof and application thereof as a colorimetric-fluorescent probe, belonging to that field of nanophase material preparation. the preparation method of the carbon point/Prussian blue-based nanophase material comprise the following steps: adding Prussian blue nanophase particle into a citric acid aqueous solution of urea, carrying out microwave-assisted carbonization, cooling to room temperature, dissolving the obtained carbonized product in deionized water, centrifuging, collecting and precipitating, ishing and drying to obtain the carbon dots/Prussian blue nanophase materials. The invention provides a carbon dots/Prussian blue nanophase materials (CDs/PBNPs), which is used as a fluorescence probe and a colorimetric probe respectively for sensitivity detection of Fe³⁺ and cholesterol. It may be applied to the detection of Fe³⁺ and cholesterol in human serum samples, which provides a new idea for preventing diseases caused by Fe³⁺ and cholesterol. In addition, biocompatible CDs/PBNPs may also be used as a fluorescent probe for cell imaging.



21: 2025/03137. 22: 2025/04/14. 43: 2025/10/28
 51: A61K; C07K; C12N; C12Q; G01N
 71: XIAMEN UNIVERSITY, XIAMEN INNOVAX BIOTECH CO., LTD.
 72: ZHENG, Zizheng, LIN, Min, YIN, Yifan, WANG, Chen, ZHAO, Xiaomeng, CHEN, Li, ZHANG, Jun, XIA, Ningshao
 33: CN 31: 202211267043.7 32: 2022-10-17

54: TRUNCATED RESPIRATORY SYNCYTIAL VIRUS F PROTEIN AND USE THEREOF

00: -

Provided are a fusion protein, and a nucleic acid molecule comprising a nucleotide sequence encoding the fusion protein. The present invention also relates to a vaccine comprising the fusion protein or the nucleic acid molecule. Furthermore, the present invention also relates to a method for preventing and/or treating RSV infections or diseases and/or symptoms caused by RSV infections by means of using the fusion protein, the nucleic acid molecule and the vaccine.

21: 2025/03155. 22: 2025/04/15. 43: 2025/10/29
 51: C01B

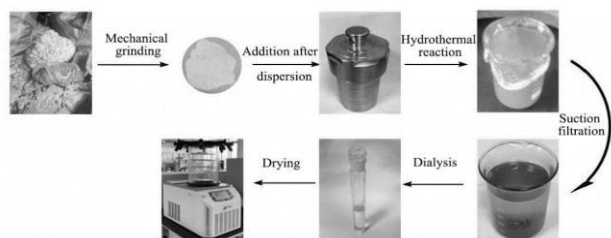
71: Henan University of Urban Construction
 72: CHEN, Yingzan, HOU, Wenting, REN, Haibo, ZHANG, Yanbing, XUE, Wenhui, LI, Kanghao, ZHANG, Huaiyuan

33: CN 31: 202510308299.5 32: 2025-03-14

54: METHOD FOR PREPARING CARBON QUANTUM DOTS FROM WASTE POLYURETHANE

00: -

Disclosed is a method for preparing carbon quantum dots from waste polyurethane, which belongs to the technical field of carbon materials. The method for preparing carbon quantum dots from waste polyurethane provided by the present invention includes mixing the waste polyurethane and water for hydrothermal reaction to obtain the carbon quantum dots; and a temperature for the hydrothermal reaction is 100-260 degrees Celsius, and time for the hydrothermal reaction is 8-24 h. The waste polyurethane serving as a carbon source and nitrogen source is prepared into the carbon quantum dots with excellent optical performance and stability through specific hydrothermal reaction conditions. Moreover, by using the waste polyurethane, not only can additional value be improved, but also the cost of the carbon quantum dots can be reduced.



21: 2025/03156. 22: 2025/04/15. 43: 2025/10/29

51: G09B

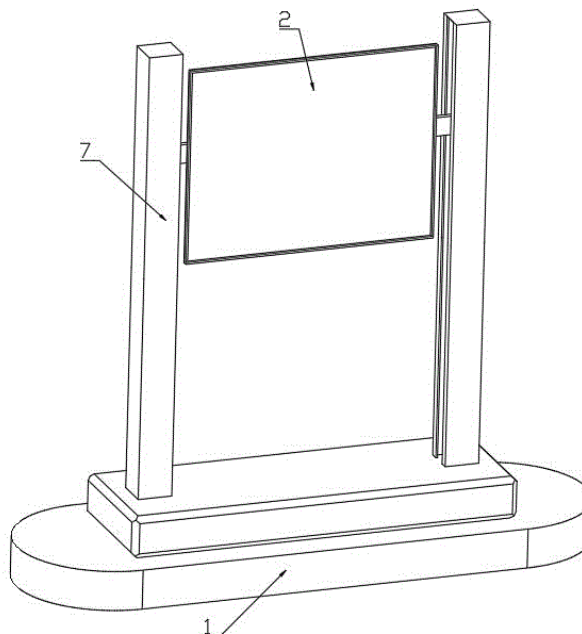
71: Suzhou University

72: Keyan Zheng

54: FOREIGN LANGUAGE TEACHING INTERACTIVE BOARD

00: -

A foreign language teaching interactive board, comprising a support base; the support base is provided with a foreign language teaching interactive board; the support base is provided with two sets of height automatic adjusting devices; the height automatic adjusting devices comprise a driving mechanism, an adjusting screw, a slider and a connecting plate; the driving mechanism is mounted at a bottom end of the adjusting screw, and the slider is cooperatively mounted on an outer peripheral surface of the adjusting screw; both two ends of the connecting plate are detachably connected to the slider, and the connecting plate is used for mounting a foreign language teaching interactive board. The foreign language teaching interactive board provided by the invention has a height automatic adjustment function, which can be adjusted according to the height of the user or the teaching needs, improves the convenience and comfort of use, and solves the problem that the height of the foreign language teaching interactive board in the prior art is fixed and not adjustable, and the above structure can increase the scope of application and has a high degree of flexibility.



21: 2025/03157. 22: 2025/04/15. 43: 2025/10/29

51: F16H

71: Qilong Tang

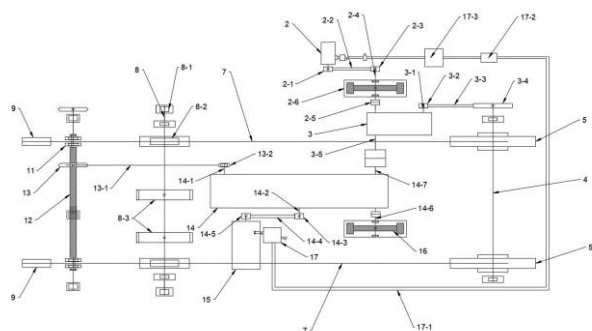
72: Qilong Tang, Shucheng Tang, Qingshan Tang, Juhai Tang

54: POWER TRANSMISSION DEVICE

00: -

A power transmission device, which relates to the technical field of mechanical transmission, comprising a frame; a driving motor (also a power motor or other power wheels such as water turbine, wind turbine, etc) is provided on the frame; an output end of the driving motor is connected with a first input shaft of the gearbox in a transmission way; the output shaft of the gearbox is connected with the eccentric wheel shaft in a transmission way; multiple eccentric wheels are provided on the eccentric wheel shaft; rollers are connected below outer rings of the eccentric wheels; the roller is rotationally connected with one end of the lever; a middle part of the levers is hinged with the frame; ends of the levers away from the rollers are connected with counterweight blocks; ends of the levers close to the counterweight blocks are hinged with the connecting rods; lower ends of the connecting rods are hinged with the crankshaft; a driving sprocket is also provided on the crankshaft; the driving sprocket is connected with a driven sprocket through a chain in a transmission way; the driven sprocket is coaxially connected with the input shaft of the gearbox; a first

output shaft is provided on the gearbox; the first output shaft is connected with the generator in a transmission way; the generator is used to generate electricity, and configured also be connected to other rotating equipment for use. The invention cleverly utilizes the principle of leverage to design combinations that improve the utilization of initial power.



21: 2025/03158. 22: 2025/04/15. 43: 2025/10/29

51: A01K

71: HUNAN CITY UNIVERSITY

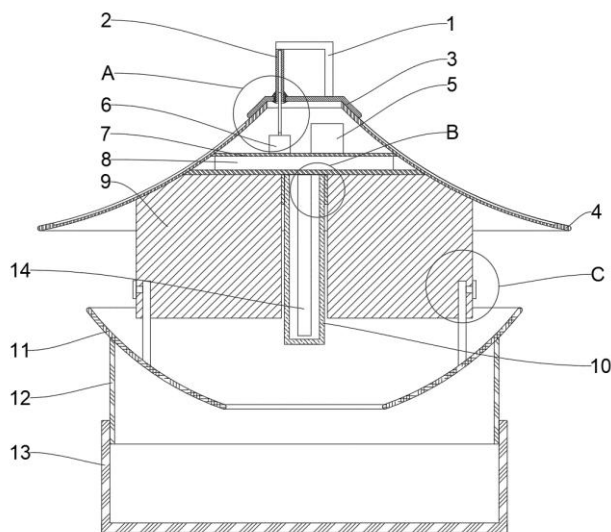
72: LIU Wenbin

54: CONVENIENT-TO-TRANSFER PINE WOOD NEMATODE COLLECTION DEVICE FOR TOURISM ENVIRONMENT MANAGEMENT

00: -

The present invention belongs to the field of tree disease and pest control technology, and particularly relates to a convenient-to-transfer pine wood nematode collection device for tourism environment management. During use, the device is first hung on a branch via the L-shaped hook, and then the rectangular sealing rod closes the gap between the L-shaped hook and the top cover, securing the device in place. The controller activates the trapping component, which, combined with the trapping agent, lures *Monochamus alternatus*. The *Monochamus alternatus* collide with the baffle component, causing the *Monochamus alternatus* to enter a thanatosis state. The *Monochamus alternatus* in thanatosis state falls into the guiding component and enters the collection component under the action of the guiding component to complete the collection of *Monochamus alternatus* and reduce the spread of *Monochamus alternatus* to the pine wood nematodes. For relocation, the rectangular sealing rod opens the gap between the L-shaped hook and the top cover, allowing the

device to be removed and reinstalled. The device is easy to install, dismantle, and relocate.



21: 2025/03159. 22: 2025/04/15. 43: 2025/10/29

51: G06Q

71: China Institute of Water Resources and Hydropower Research

72: BI, Wuxia, WANG, Fan, ZHANG, Dawei, WANG, Weiqi, LIN, Wenqing

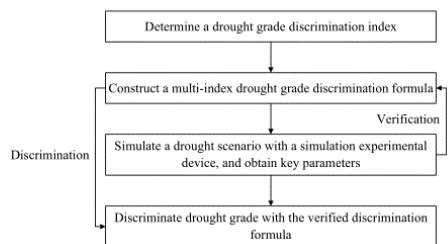
33: CN 31: 202410761538.8 32: 2024-06-13

54: DROUGHT GRADE DISCRIMINATION METHOD FOR DIFFERENT CROPS UNDER CLIMATE CHANGE SCENARIOS

00: -

Disclosed is a drought grade discrimination method for different crops under climate change scenarios. The drought grade discrimination method for different crops under climate change scenarios includes: S1, determining a drought grade discrimination index, and constructing a multi-index drought grade discrimination formula based on the discrimination index; S2, simulating a drought scenario with a simulation experimental device, and checking the discrimination formula in S1; S3, collecting a discrimination index value of a research area on the spot; and S4, substituting the discrimination index value collected in S3 into the discrimination formula verified in S2 to determine drought grade. Compare with a traditional method, selection of the drought grade discrimination index is more comprehensive, and indexes of meteorology, agriculture, soil and vegetation are comprehensively considered. Key parameters of the formula are obtained by performing a simulation experiment,

which is more scientific and reasonable compared with a traditional empirical method.



21: 2025/03160. 22: 2025/04/15. 43: 2025/10/29

51: A23B; A23L

71: STRATUMTEC SPÓŁKA Z OGRANICZONA ODPOWIEDZIALNOSCIA

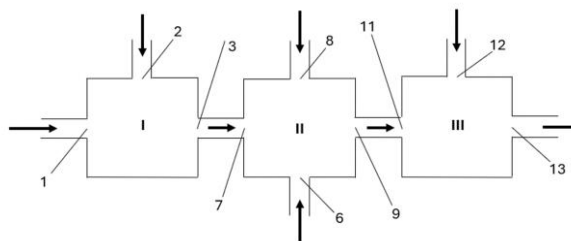
72: KOC Mateusz

33: PL 31: P.450943 32: 2025-01-13

54: SYSTEM AND METHOD FOR PRODUCING A COLORING AND FLAVORING SOLUTION

00: -

A system for producing a coloring and flavoring solution from a liquid coloring formulation comprises a pre-mixer (I) with a liquid coloring formulation inlet (1) and a compressed air inlet (2), and a pre-disintegrated mixture outlet (3) with a tubing (4), a disintegrating device (II) being a body (5) with a superheated steam inlet (6), a pre-disintegrated mixture inlet (7) supplied by a tubing (4) and a compressed air inlet (8), and a disintegrated mixture outlet (9) with a tubing (4'), and a final mixer (III) with a disintegrated mixture inlet (11) supplied by the tubing (4'), comprising a superheated steam inlet (12) and a disintegrated coloring and flavoring solution outlet (13). A method for producing a coloring and flavoring solution from a liquid coloring formulation comprises steps in which: (a) a liquid coloring formulation and compressed air are fed into a pre-mixer to produce a pre-disintegrated mixture, (b) the resulting pre-disintegrated mixture is introduced into a disintegrating device through which superheated steam flows, where the compressed air is simultaneously fed for further mixing and disintegrating the particles of the coloring formulation, and further, (c) the resulting finely disintegrated mixture is fed into a final mixer, in which the mixture is contacted for further disintegration with superheated steam supplied by the tubing, obtaining a coloring and flavoring solution at the outlet from the final mixer.



21: 2025/03163. 22: 2025/04/15. 43: 2025/10/29

51: G01C

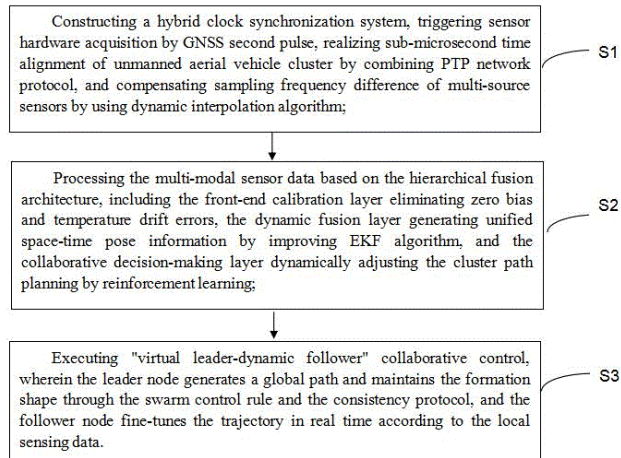
71: Jiaxing Vocational & Technical College

72: Yanjun Ji, Bilu Luo, Yuyang Ji, Chunfang Gao, Xiaoji Wei, Weifeng Meng, JunWei Zhang

54: UNMANNED AERIAL VEHICLE CLUSTER SYNCHRONIZATION METHOD BASED ON MULTI-SENSOR FUSION

00: -

The invention provides an unmanned aerial vehicle cluster synchronization method based on multi-sensor fusion, and relates to the technical field of unmanned aerial vehicles. By combining GNSS timing, PTP protocol and software-level dynamic compensation, this method constructs a multi-level and robust time synchronization system, and realizes the accurate synchronization of unmanned aerial vehicle cluster in complex environment. Through hardware-level synchronization, network-level synchronization and software-level dynamic compensation, the time consistency of each unmanned aerial vehicle in the cluster is ensured, and the anti-interference ability and robustness of the system are improved. In the aspect of sensor data fusion, the invention designs a layered fusion architecture, effectively fuses multi-source data from LiDAR, camera, IMU, millimeter-wave radar and the like based on an extended Kalman filter (EKF) algorithm, and improves the accuracy and real-time performance of the data. In addition, the reinforcement learning algorithm and distributed consistency protocol are adopted to realize the adaptive adjustment of cluster path planning and task allocation, and ensure the coordinated execution of cluster tasks.



21: 2025/03164. 22: 2025/04/15. 43: 2025/10/29

51: G06F; G09B; G06Q

71: CHENGDU INDUSTRIAL VOCATIONAL TECHNICAL COLLEGE

72: Derong ZHANG, Yong LIU, Xiaoli LIU, Jing WEI, Chunmei LI, Shuixian DUAN, Jing TIAN, Ming YANG, Xiaohan DENG, Zihui TANG

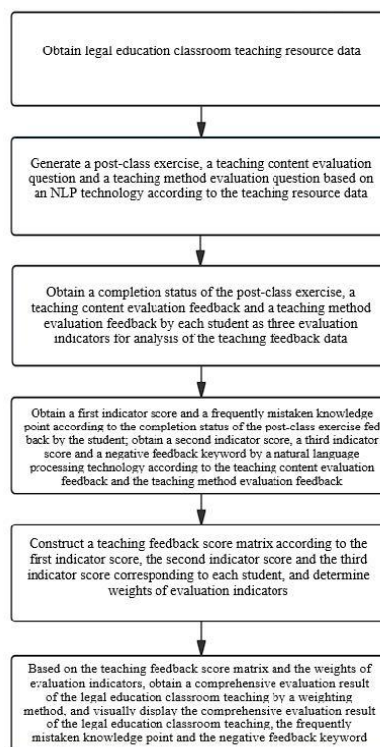
33: CN 31: 2024105866983 32: 2024-05-11

54: FEEDBACK DATA ANALYSIS METHOD AND SYSTEM FOR LEGAL EDUCATION CLASSROOM TEACHING BASED ON NLP

00: -

The present invention discloses a feedback data analysis method and system for legal education classroom teaching based on natural language processing (NLP), and relates to the technical field of analysis of classroom teaching effectiveness. The method includes: obtaining legal education classroom teaching resource data, generating a post-class exercise, a teaching content evaluation question and a teaching method evaluation question; according to a completion status of the post-class exercise fed back by a student, obtaining a first indicator score and a frequently mistaken knowledge point; according to a teaching content evaluation feedback and a teaching method evaluation feedback, obtaining a second indicator score, a third indicator score and a negative feedback keyword by a natural language processing technology; and constructing a teaching feedback score matrix, determining weights of evaluation indicators, obtaining a comprehensive evaluation result of the legal education classroom teaching by a weighting method, and automatically ranking and displaying top five students according to the evaluation result after completing a topic study. The present invention

may not only evaluate learning outcomes of students and extract weak knowledge points of students, but also obtain feedback from the students on the contents and methods of legal education classroom teaching.



21: 2025/03201. 22: 2025/04/16. 43: 2025/10/29

51: A01C

71: FIFTH INSTITUTE OF GEOLOGICAL AND EXPLORATION OF QINGHAI PROVINCE

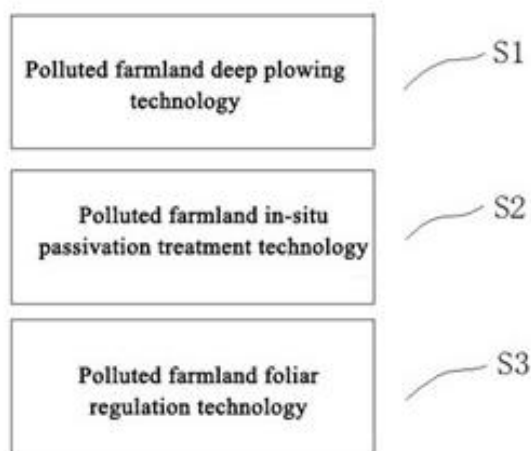
72: YAO, Zhen, ZHANG, YaFeng, SHEN, Xiao, YAN, JianPing

54: SAFE UTILIZATION METHOD OF LIGHT AND MEDIUM POLLUTED FARMLAND SUITABLE FOR PLATEAU ALKALINE SOIL

00: -

A safe utilization method for light to moderately polluted farmland in plateau alkaline soil includes three key technologies. First, deep plowing is applied to dilute heavy metal concentrations in the tillage layer, thereby reducing contamination in crops. The method includes testing the impact of deep plowing on pollutant levels and crop yields to determine the most suitable approach for the project area. Second, in-situ passivation is implemented by selecting efficient and low-toxicity passivating agents based on pollutant types and local soil conditions, to immobilize heavy metals and minimize their

bioavailability. Third, foliar regulation is introduced, enhancing safety by combining multiple techniques to improve effectiveness. This integrated approach addresses the limitations of traditional methods, such as poor adaptability, low remediation efficiency, and farmers' reluctance to adopt unfamiliar practices. By tailoring the solution to specific environmental and soil conditions, the method promotes safer agricultural production and sustainable land use in polluted regions.



21: 2025/03202. 22: 2025/04/16. 43: 2025/10/29
51: E21D

71: HEILONGJIANG UNIVERSITY OF TECHNOLOGY

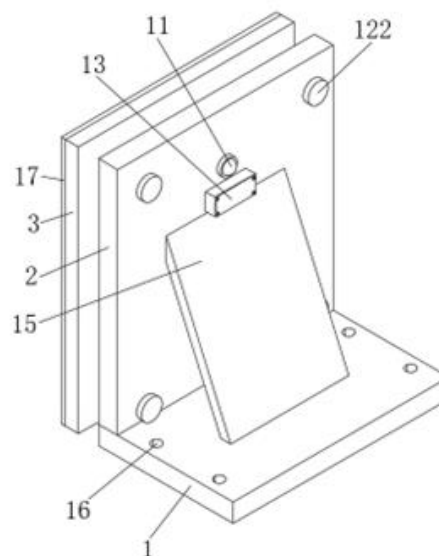
72: QU, Nianhua, WANG, Yajun, CHENG, Tong, WANG, Haitao, DU, Kai

54: MINING SUPPORT DEVICE WITH SAFETY DETECTION

00: -

The invention relates to mining technology and discloses a mining support device with integrated safety detection. It includes a counterweight bottom plate connected to a back plate, which is further connected to a support plate. First springs are fixed between the support plate and back plate to provide flexible support. A positioning frame is mounted on the support plate to house components such as a sliding plate, metal contact plate, second spring, positioning block, metal trigger plate, and a buzzer. These elements work together to enable safety detection of the mining tunnel's side walls. The support structure ensures stability, while the detection system alerts users to potential hazards. A dedicated support component guides and stabilizes

the support plate during use. This integrated design provides reliable structural reinforcement and improves tunnel safety by detecting risks in real time, thereby meeting operational safety requirements and reducing the likelihood of accidents.



21: 2025/03203. 22: 2025/04/16. 43: 2025/10/29
51: G09B

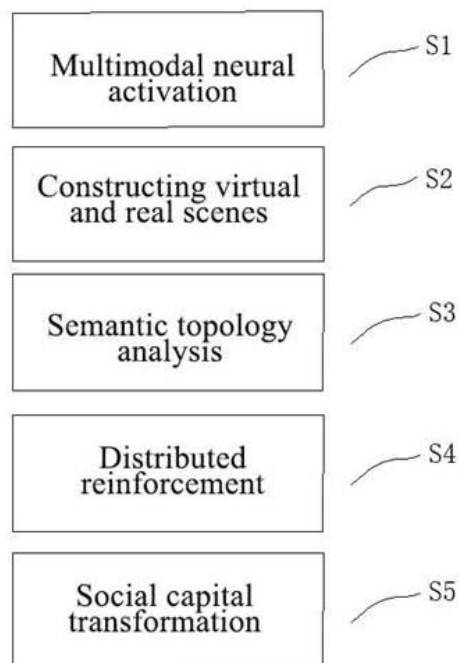
71: INNER MONGOLIA MINZU UNIVERSITY

72: ZHANG, Jinghui

54: JAPANESE ONLINE TEACHING METHOD 00: -

A Japanese online teaching method, comprising a multimodal neural activation step: obtaining real-time attention parameters of learners through biosensors, dynamically adjusting the density of Japanese teaching content, the parameters including brainwave beta wave power spectral density and pupil focusing frequency; Constructing virtual and real scenes step: Generate mixed reality training scenes with cultural context, including AI synthesized Japanese street scene video streams and interactive AR traditional cultural spaces; Semantic topology analysis steps: Convert the Japanese particle system into a three-dimensional grammar relationship diagram and label semantic deviation warning labels for Chinese Japanese homophones; Distributed reinforcement steps: Implant micro learning plugins on social media platforms and push grammar reflection training content based on learners' fragmented time characteristics; S5, Social capital transformation

step. The virtual scene data package can be seamlessly imported into the VRChat Japanese community, increasing user social activity and enhancing Japanese learning outcomes



21: 2025/03207. 22: 2025/04/16. 43: 2025/10/29
51: G10L

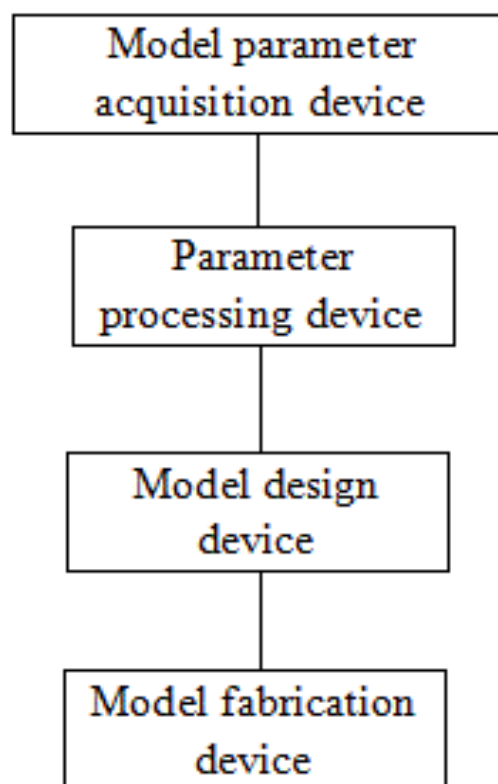
71: Zhejiang University of Science and Technology
72: LI Feng, Abdifatah Mohamed AIMAD, JIN Hui, FAN Lei, SONG Fangyuan, Ali Mohamed MOHAMUD, ZHANG Jiaming, HU Lvsheng

54: DESIGN DEVICE FOR AEROELASTIC MODELS OF COMPLEX MULTI-SPAN LATTICE FRAMEWORKS

00: -

The invention discloses a design device for aeroelastic models of complex multi-span lattice frameworks, comprising: a model parameter acquisition device, a parameter processing device, a model design device, and a model fabrication device; the model parameter acquisition device is configured to acquire model structural parameters conforming to the prototype based on dimensionless parameter requirements and determine the model's similarity ratio; the parameter processing device is configured to preprocess the model structural parameters to obtain processed parameters; the model design device is configured to design a aeroelastic three dimensional model using finite

element software based on the processed parameters and the similarity ratio; the model fabrication device is configured to fabricate a physical aeroelastic model based on the aeroelastic three dimensional model. The model fabrication device is used to make a solid aeroelastic model based on the aeroelastic three dimensional model. The aeroelastic model designed and manufactured by the present invention solves the problems of excessive damping ratio and stiffness distortion caused by dense structural vibration modes and multiple members in traditional methods, and is particularly suitable for studying wind-induced response and aeroelastic effects of complex multi-span lattice frameworks.



21: 2025/03208. 22: 2025/04/16. 43: 2025/10/30
51: G01V

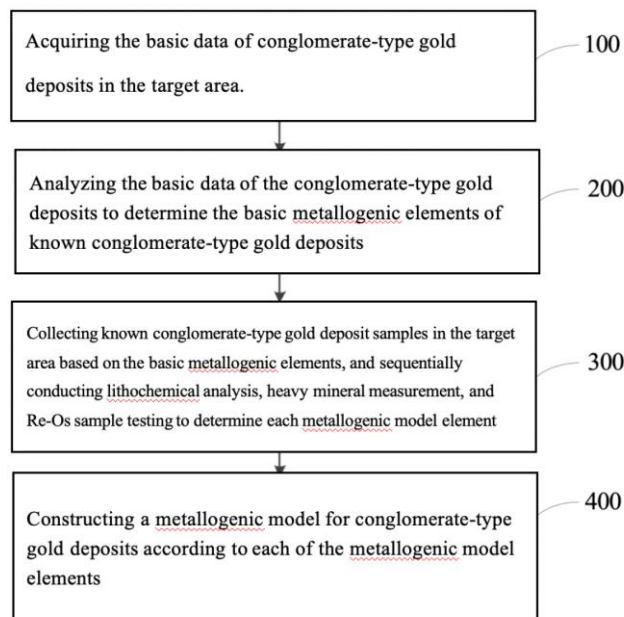
71: The Fourth Geological Exploration Institute of Qinghai Province (Key Laboratory of Shale Gas Resources of Qinghai Province)

72: Wu Shaofeng, Wang Jun, Zhang Haiqing
33: CN 31: 2024108989491 32: 2024-07-05

54: A METHOD FOR CONSTRUCTING A METALLOGENIC MODEL FOR CONGLOMERATE-TYPE GOLD DEPOSITS

00: -

The invention discloses a method for constructing a metallogenic model for conglomerate-type gold deposits, which relates to the technical field of gold deposit exploration. The method comprises: acquiring basic data of conglomerate-type gold deposits in the target area; analyzing the basic data of the conglomerate-type gold deposits to determine the fundamental metallogenic elements of known conglomerate-type gold deposits; the fundamental metallogenic elements include formation environment, deposit genesis, ore body characteristics, and prospecting indicators; based on the fundamental metallogenic elements, collecting known conglomerate-type gold deposit samples in the target area, and sequentially conducting petrochemical analysis, heavy mineral measurement, and Re-Os sample testing to determine the elements of each metallogenic model; constructing a metallogenic model for conglomerate-type gold deposits based on each of the metallogenic model elements. This invention enables the construction of a more accurate metallogenic model for conglomerate-type gold deposits, thereby expanding the prospecting space.



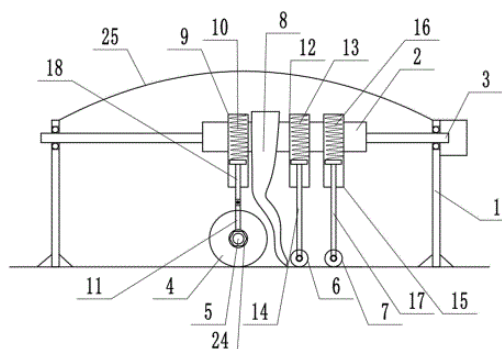
21: 2025/03211. 22: 2025/04/16. 43: 2025/10/29
51: B42C

71: Henan University of Urban Construction
72: LI, Bing, GUO, Hua, ZHAO, Jiannan, SONG, Xiaohan, XIN, Yicong, CHEN, Xinyu, JIA, Ruizhi

54: BILL STICKING DEVICE

00: -

A bill sticking device includes a holding frame, a moving seat, a driving device, a hollow guide plate, a first pressing rod, a second pressing rod, a third pressing rod, a glue coating roller, a mounting shaft, a first pressing roller, and a second pressing roller. The moving seat is arranged on the holding frame. Top ends of the first pressing rod, the second pressing rod, and the third pressing rod are fixed on the moving seat. The glue coating roller is fixedly sleeved on the mounting shaft. The mounting shaft is arranged at a bottom end of the first pressing rod. The first pressing roller and the second pressing roller are configured to be in contact with a bill. The first pressing roller is arranged at a bottom end of the second pressing rod. The second pressing roller is arranged at a bottom end of the third pressing rod.



21: 2025/03220. 22: 2025/04/16. 43: 2025/10/29
51: B03D; B06B

71: Guangxi University

72: CHEN Jianhua, LIAO Xingjin

33: CN 31: 2023112145316 32: 2023-09-20

54: METHOD FOR REMOVING ARSENIC IN CASSITERITE TAILINGS BY ULTRASONIC-ASSISTED FLOTATION

00: -

The invention belongs to the technical field of arsenic removal from tailings, and relates to a method for removing arsenic in cassiterite tailings by ultrasonic-assisted flotation. The invention adds roughing reagent into the pretreated cassiterite tailings and carries out roughing after ultrasonic treatment to obtain roughing tailings; the roughing tailings are scavenged at least once to obtain the scavenging tailings, namely arsenic-removed cassiterite tailings. The slime can be well dispersed through ultrasound, which eliminates the covering

effect of the secondary slime on the mineral surface and the reagent during grinding, and promotes the collecting effect of the reagent on arsenic-containing minerals, so that arsenic in tin-containing tailings can be reduced from 0.5 percent to 0.8 percent to 0.02 percent to 0.03 percent, completely meeting the requirements of general solid waste.

21: 2025/03251. 22: 2025/04/16. 43: 2025/10/29

51: A23K

71: BETTERFEDFOODS LLC

72: DROUILLARD, James S., ZYLBERLICHT, Gabriel Porcel

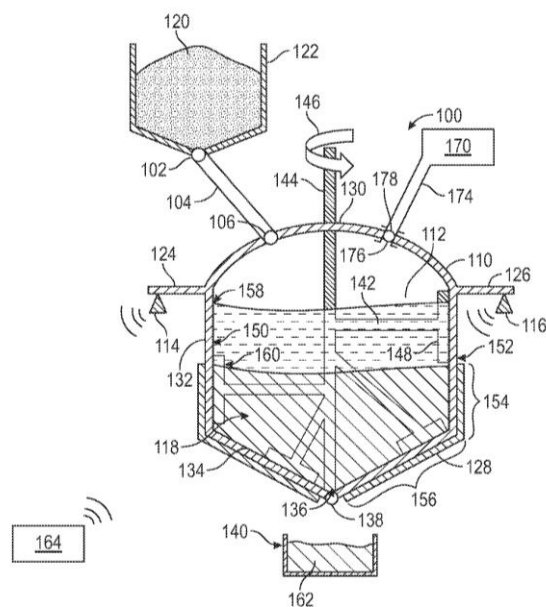
33: US 31: 63/377,126 32: 2022-09-26

33: US 31: 63/479,302 32: 2023-01-10

54: FEED BLOCK PRODUCTION METHOD USING VACUUM PRESSURE

00: -

An automated system (100) for producing animal feed blocks is disclosed. A sealable vessel (110) supported by a load cell (114,116) contains a liquid ingredient. Steps of agitating with an agitator (142), applying a continuous high vacuum, and heating with a steam jacket (128) having multiple heat zones occur upon the liquid ingredient. A controller (164) monitors the weight change of the liquid ingredient being concentrated. A target weight signal generates once the concentrated liquid ingredient corresponds to a target weight value. Dry premix (120) is mixed at a regulated amount with the concentrated liquid ingredient during agitation and application of an intermittent high vacuum. A product outlet valve (138) is positioned at an outlet (136) within a conical-shaped bottom section (134) of the sealable vessel. Compressed air from a pneumatic pump (170) facilitates dispensing a quantified amount of an animal feed composition from the outlet into final packaging (140).



21: 2025/03260. 22: 2025/04/17. 43: 2025/10/29

51: H01G

71: WUXI POWER FILTER CO., LTD, Shengrong Power Technology (Anhui) Co., Ltd.

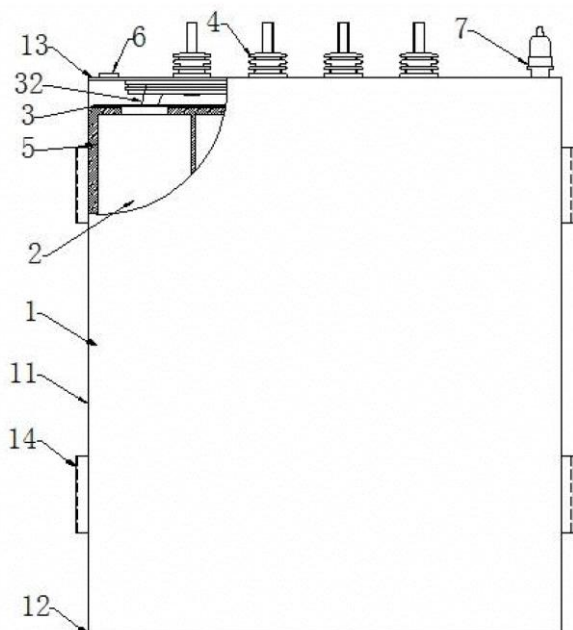
72: FENG, Ying, QIU, Xi, LI, Yinda, CAO, Chongfeng, SUN, Xiaowu

33: CN 31: 202411069772.0 32: 2024-08-06

54: DRY-TYPE DC LINK CAPACITOR FOR SMART GRIDS

00: -

Disclosed is a dry-type DC link capacitor for smart grids. The capacitor comprises a housing, a core module, an electrical connection component, a terminal component, filled resin, a pressure relief valve, and a pressure switch. The housing includes a shell body, a shell bottom, a shell cover, and a mounting bracket. The mounting bracket includes a mounting bracket body and a mounting nut. The core module includes a core housing, components, component outgoing copper foils, and encapsulated resin. The core housing includes a core housing body, core housing side plates, and a core shell bottom. The electrical connection component includes a bus connection copper bar and an electrical connection outgoing line. The terminal component includes an insulator, a conductive rod, a round nut, an insulating washer, a sealing ring, a first insulating plate, a first electrode copper bar, a second insulating plate, and a second electrode copper bar.



21: 2025/03261. 22: 2025/04/17. 43: 2025/10/29

51: B65G

71: Ningxia Tiandi Northwest Coal Machinery Co., Ltd.

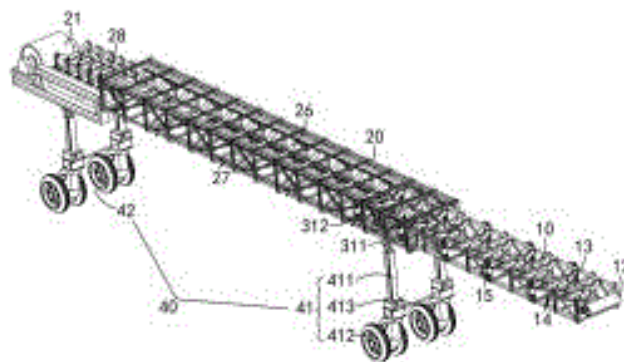
72: YANG Hai, CAI Ruikun, YANG Jie, WANG Zhanguai, ZHANG Cheng, ZHANG Fenyong, LIU Zengjie, TONG Jianzhong, TIAN Yanjun, MA Zhao, LI Jiapeng, YUAN Xiaolong

54: BULK MATERIAL CONVEYOR USED IN OPEN-PIT MINING AREA

00: -

A bulk material conveyor in open-pit mining area includes a first truss, a second truss, a traveling mechanism and a moving mechanism; the left end of the first truss is inserted into the right end of the second truss, and the second truss is installed on the moving mechanism; the conveyor takes the first truss and the second truss as the skeleton, uses the gears of the traveling mechanism to provide power, and uses the pin track as the transmission medium to drive the first truss to expand and contract in the abdomen of the second truss; the moving mechanism may easily realize universal movement; the invention has the beneficial effects that the first truss and the second truss are inserted into each other, and the second upper idler group is connected in series by a circular ring chain, so that the expansion and contraction do not interfere with each other, and the expansion and contraction stroke may reach 8m; the traveling mechanism of gear and pin track is adopted during expansion and contraction,

which avoids the shortcomings that the traditional gear or rack and chain structure is difficult to process, and the whole rack needs to be replaced if it is broken. The structure of gear and pin track has independent fault points and is very convenient to process and install.



21: 2025/03262. 22: 2025/04/17. 43: 2025/10/29

51: E21C

71: Ningxia Tiandi Northwest Coal Machinery Co., Ltd.

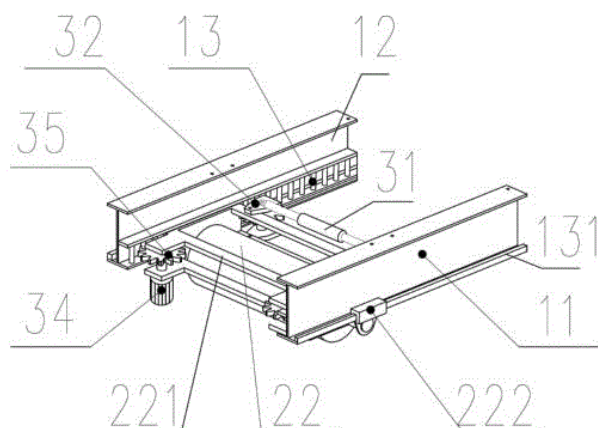
72: FENG Baozhong, WANG Hao, YANG Hai, TONG Jianzhong, WANG Ning, LAN Chunsen, CAI Ruikun, HE Yongfeng, YANG Ping, MA Yupeng, MA Liwei, WANG Xinghong, YUAN Xiaolong

54: SELF-ADAPTIVE COMPENSATION INTELLIGENT SELF-ADVANCING TAILPIECE

00: -

The present invention proposes a self-adaptive compensation intelligent self-advancing tailpiece, including a self-advancing tailpiece and a belt-following device arranged at the tail end of the self-advancing tailpiece; the tail end of the self-advancing tailpiece includes a frame, the frame includes symmetrically arranged left side frame and right side frame, the belt-following device includes a first roller, a second roller, a third roller, a belt storage drive mechanism, and a one-way passive mechanism; the first roller and third roller are fixed to the frame at the tail end, while the second roller is axially connected to a connecting seat; both ends of the connecting seat are fixed with sliding blocks; the belt storage drive mechanism and the one-way passive mechanism are respectively arranged at the two ends of the connecting seat. This invention eliminates the need for a secondary conveyor, directly connecting the tailpiece to the discharge end of a roadheader or transfer machine. The tailpiece features a three-roller belt storage structure at its tail

end, enabling synchronous movement with the advancing roadheader to achieve real-time belt compensation, eliminating the need for a secondary conveyor as a transitional connection.



21: 2025/03269. 22: 2025/04/17. 43: 2025/10/29
51: B01J

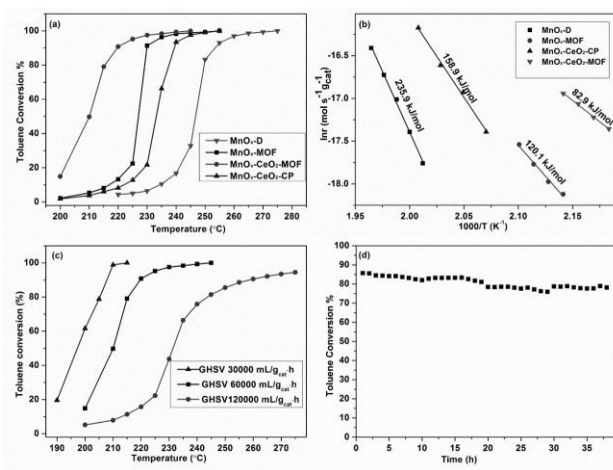
71: Henan University of Urban Construction

72: SUN Hua, ZHANG Yanbing, MENG Xiangyu

54: MOF-DERIVED MNOX-CEO2 CATALYST AND ITS PREPARATION METHOD AND APPLICATION IN CATALYTIC OXIDATION OF TOLUENE

00: -

The present invention proposes a MOF-derived MnOx-CeO₂ catalyst, its preparation method and application in the catalytic oxidation of toluene, belonging to the technical field of catalyst preparation. In the present invention, MnCl₂·4H₂O and Ce (NO₃)₃·6H₂O are dissolved in a solvent. After complete dissolution, the solution is transferred to a polytetrafluoroethylene liner for reaction. After the reaction is completed and the reaction kettle is cooled to room temperature, the product is centrifugally separated, washed, and vacuum dried to obtain Ce/Mn-MOF-74 powder. The Ce/Mn-MOF-74 powder is calcined to obtain the MOF-derived MnOx-CeO₂ catalyst. The MnOx-CeO₂-MOF catalyst of the present invention has a higher specific surface area, abundant oxygen vacancies, good low-temperature reducibility, excellent oxygen species mobility and a higher content of surface Mn⁴⁺ species. Therefore, this catalyst has the optimal toluene catalytic performance.



21: 2025/03270. 22: 2025/04/17. 43: 2025/10/29
51: G06F

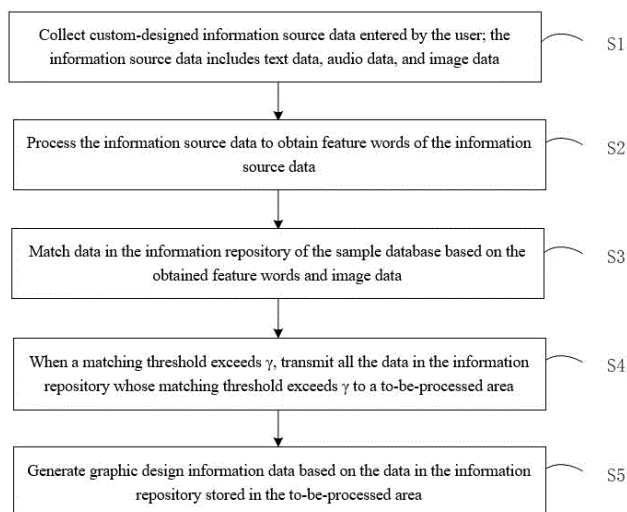
71: Anhui Technical College Of Mechanical and Electrical Engineering

72: SHI Wangyang, WU Linlin, YUAN Tao, WANG Guoyi, LIU Di, ZHANG Run, LIU Bo, HE Zengyu

54: INTELLIGENT GRAPHIC DESIGN METHOD AND SYSTEM BASED ON NATURAL LANGUAGE PROCESSING AI MODEL

00: -

The present invention provides an intelligent graphic design method and system based on a natural language processing AI model, including: collecting custom-designed information source data entered by the user; processing the information source data to obtain feature words of the information source data; matching data in the information repository of the sample database based on the obtained feature words and image data; when a matching threshold exceeds γ , transmitting all the data in the information repository whose matching threshold exceeds γ to a to-be-processed area; and generating graphic design information data based on the data in the information repository stored in the to-be-processed area. The present invention extracts the feature values of the natural language customized by the user, analyzes and compares them with the processed sample database, and is ready to match the split materials in the sample database that meet the user's requirements. In this way, the selected split materials are used to generate a graphic design that meets the user's needs. The present invention greatly improves the production efficiency, and at the same time, the generated graphic design is more in line with the user's requirements.



21: 2025/03271. 22: 2025/04/17. 43: 2025/10/29
51: G01N

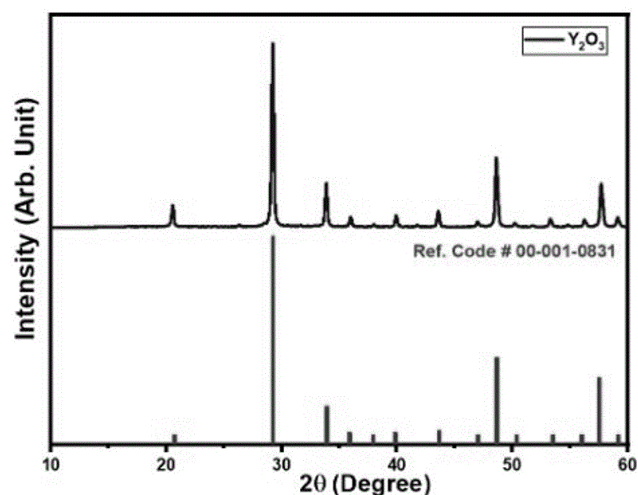
71: KHODE, Praful P., TURKANE, Mukesh D., NAGPURE, Siddheshwar M., ZADE, Pranjali A., PARAUHA, Yatish R., NIKOLAY, Naumov G., DHOBLE, Sanjay J.

72: KHODE, Praful P., TURKANE, Mukesh D., NAGPURE, Siddheshwar M., ZADE, Pranjali A., PARAUHA, Yatish R., NIKOLAY, Naumov G., DHOBLE, Sanjay J.

54: A SYNTHESIS PROCESS AND MULTIPLE EMISSION BAND IN PARTIALLY REDUCED Y_2O_3 :EU PHOSPHOR

00: -

The present invention relates to a synthesis process and multiple emission band in partially reduced Y_2O_3 :Eu Phosphor. Further, the invention presents a synthesis process for Y_2O_3 :Eu phosphors with enhanced optical properties suitable for white light-emitting diodes (WLEDs). Using a wet chemical method followed by partial reduction, Y_2O_3 :Eu³⁺ phosphors were converted to Y_2O_3 :Eu³⁺/Eu²⁺. The resulting material exhibited a broad emission band (400–570 nm) due to Eu²⁺ ions and sharp peaks (580–590 nm) with a prominent red emission at 612 nm from Eu³⁺ ions. This unique combination of broad and sharp emissions provides extended color-tuning capabilities. Photoluminescence and chromaticity analyses confirm strong UV excitation and emission near the white light region. The phosphor's properties enable efficient absorption and precise chromaticity, making it ideal for solid-state lighting. The Y_2O_3 :Eu³⁺/Eu²⁺ phosphor shows great potential for next-generation WLEDs, offering improved color quality, efficiency, and versatility for advanced lighting applications.



21: 2025/03313. 22: 2025/04/17. 43: 2025/10/30
51: E21D

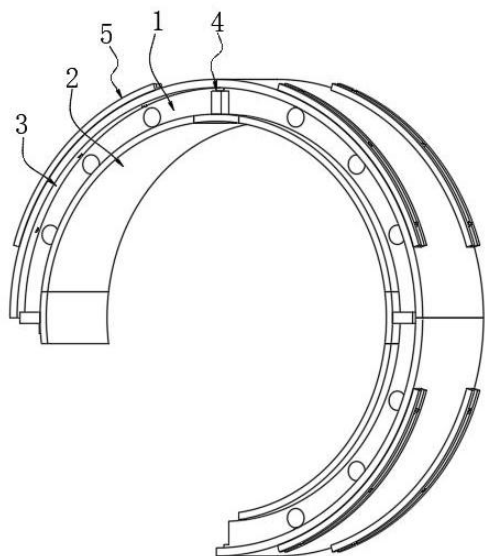
71: CHINA RAILWAY NO.5 ENGINEERING GROUP CO., LTD., HUNAN UNIVERSITY OF SCIENCE AND TECHNOLOGY, HUAQIAO UNIVERSITY, HUNAN CITY UNIVERSITY

72: ZHU, Dongping, ZHANG, Chao, LI, Yongyi, YU, Jin, ZHOU, Hao, XU, Zan, LUO, Wuzhuang, OU, Ke, YAN, Zhenwei, SHI, Kun

54: PRESTRESSED PIPE FOR SHIELD TUNNEL

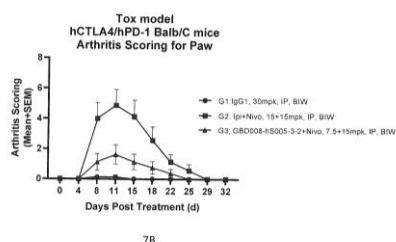
00: -

Disclosed is a prestressed pipe for a shield tunnel. The prestressed pipe includes segments I, segments II and segments III that have semi-annular structures. The prestressed pipe further includes a reinforcing assembly mounted between the segments I. By arranging the reinforcing assembly, a mounting seat is arranged between the segments I, an insertion pipe is inserted into an insertion hole at a corresponding position of the segment I, a knob II is rotated to drive a screw rod to rotate, a sleeve plate is forced to push a hinge shaft to move along the screw rod, and an insertion rod is pushed by the hinge shaft to drive the insertion pipe to move, such that the insertion pipe continues to penetrate along the insertion hole of the segment I, thereby integrally connecting the segments I to form a whole, and ensuring connection stability and connection strength.



21: 2025/03323. 22: 2025/04/17. 43: 2025/10/30
 51: A61K; C07K; C12N; G01N; A61P
 71: GENOR BIOPHARMA CO., LTD.
 72: DU, Qinglin, LV, Yaxuan, ZHOU, Tiantian,
 PENG, Fei, LI, Xueqin, CAO, Huanhuan, YANG,
 Xueyan, DING, Qian, TAN, Yongcong, HAN, Shuhua
 33: CN 31: PCT/CN2022/128253 32: 2022-10-28
54: NOVEL ANTI-CTLA4 ANTIBODY
 00: -

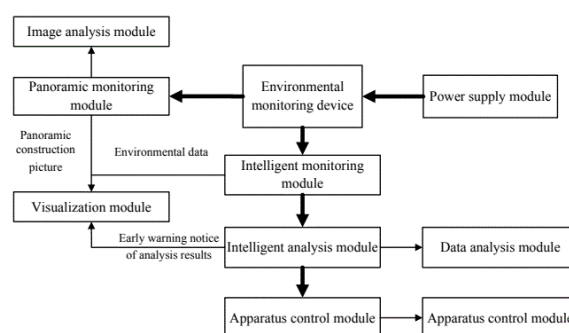
Provided in the present disclosure is an antibody specifically binding to cytotoxic T lymphocyte-associated antigen-4 (CTLA4), particularly a heavy-chain antibody, and more particularly a single-domain antibody. Also disclosed is the therapeutic use of the antibody.



21: 2025/03331. 22: 2025/04/21. 43: 2025/10/30
 51: B01D
 71: Jinggangshan University
 72: ZOU, Jiamin, ZHANG, Zhichong
54: ENVIRONMENTAL MONITORING DEVICE FOR INTELLIGENT CONSTRUCTION
 00: -

Disclosed is an environmental monitoring device for intelligent construction, which belongs to the field of

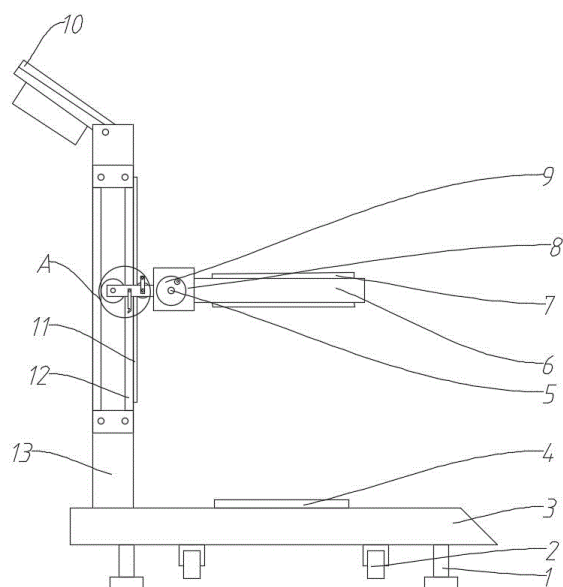
intelligent construction. The environmental monitoring device for intelligent construction includes an intelligent monitoring module, an intelligent analysis module, an apparatus collaboration module and a panoramic monitoring module. The present invention solves the problem that an existing monitoring apparatus cannot provide decision-making support for a construction process. By acquiring and analyzing environmental data, combined with an abnormality determination threshold and the early warning rules, the present invention can accurately determine whether an environment is abnormal and early warning is given, such that different construction site apparatuses are controlled to perform corresponding response actions. Real-time analysis is performed on a panoramic construction picture with an AI algorithm, such that violation operation of construction personnel can be identified, a risk area is marked, and accidents are effectively prevented.



21: 2025/03335. 22: 2025/04/22. 43: 2025/10/30
 51: A61B
 71: LINYI UNIVERSITY
 72: HUANG Qian, ZHAO Zhouyang, WANG Yanqun
54: PRELIMINARY SCREENING DEVICE FOR ADOLESCENT SCOLIOSIS BASED ON PLANTAR PRESSURE DETECTION
 00: -

The present invention belongs to the technical field of preliminary scoliosis screening devices, and particularly relates to a preliminary screening device for adolescent scoliosis based on plantar pressure detection. The device comprises a base, where the base is equipped with a pressure measurement assembly. One side of the top end of the base is connected to a vertical column, and the top end of the vertical column is provided with a host. The pressure measurement assembly is configured to

collect dual-foot pressure data, and the host is configured to analyze and calculate the dual-foot pressure data to obtain preliminary scoliosis screening results for adolescents. The vertical column is equipped with a lifting mechanism, and the execution end of the lifting mechanism is provided with a limiting mechanism to prevent the tested adolescent from moving. The invention ensures no harm to the human body during scoliosis screening and enables rapid detection.



21: 2025/03337. 22: 2025/04/22. 43: 2025/10/30
51: A23K

71: Shihezi University

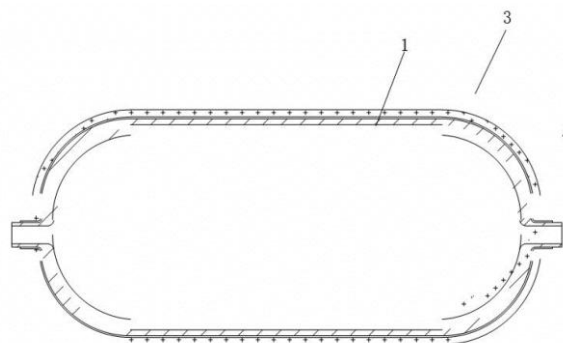
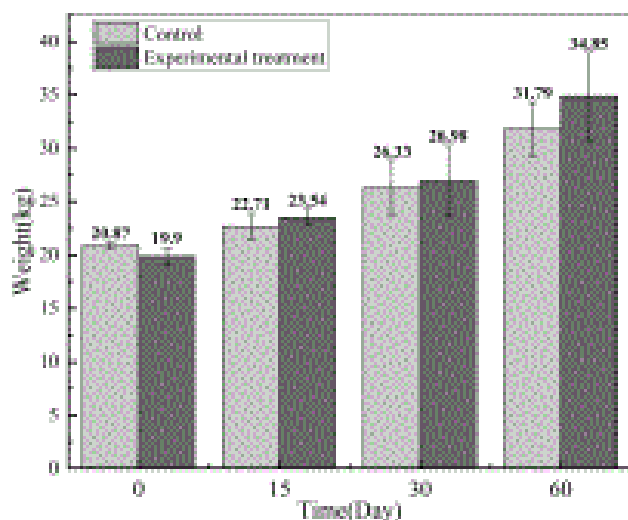
72: Fanfan ZHANG, Yingchao SUN, Qiang YANG, Guohua ZHANG, Guoqing HOU, Hui ZHANG, Jizhu GUO, Kang SONG, Qin DONG, Jingqiang HAO, Jing ZHOU, Jingjing WU, Yao XU, Cuixia HAN

54: APPLICATION METHOD FOR BROUSSONETIA PAPYRIFERA PELLETTED TMR DIET FORMULA IN FATTENING SHEEP PRODUCTION

00: -

The present invention discloses a pelleted complete TMR diet feed formula for fattening sheep made by using *Broussonetia papyrifera* and its preparation method, wherein the raw materials include corn, cottonseed meal, soybean meal, *Broussonetia papyrifera*, alfalfa hay, corn straw, calcium hydrogen phosphate, salt, calcium carbonate, premix, adhesive, water, wherein premix includes compound

vitamins, trace elements, compound amino acid additives. According to the nutritional requirements of fattening sheep, the raw materials were fully mixed according to a certain proportion, and then hyperthermia pelletizing was performed, the finished pellets were suitable for the growth stage of 15-35kg fattening sheep during the fattening period. This pellet feed adopts a specific processing technology and has a high absorption rate, which can significantly improve the growth performance of fattening sheep. Through the fattening experiment, the control group was fed with conventional diet, and the experimental group was fed with *Broussonetia papyrifera* pelleted TMR diet, the results showed that the total weight gain of the control group was 10.92kg, the average daily gain (ADG) was 182g/d, the slaughter rate was 49.86%; and the total weight gain of the sheep in the experimental group was 12.74kg, which was 16.67% higher than the total weight gain of the control group, the ADG was reached 212.33g/d, which was 30.33g/d higher than the ADG of the control group, the slaughter rate was 49.49%, and the cost of diet per kilogram was lower than the conventional diet by 1.12yuan/kg, and the number of neutrophils (NEU) and red blood cells (RBC) in the experimental group were lower than those in the control group, the total number of lymphocytes (LYM) was significantly higher than that in the control group, and the differences between other indexes were not significant; and there were no significant differences in serum biochemical indexes. In summary, the fattening sheep fed with the *Broussonetia papyrifera* pelleted TMR diet of the present invention can not only improve the performance and economic benefits of the animal, but also improve the health of the mutton sheep. Therefore, the *Broussonetia papyrifera* pelleted TMR diet can be used for large-scale fattening sheep production, and provide technical support for the processing and production of fattening sheep feed in the environment of shortage of forage resources.



21: 2025/03338. 22: 2025/04/22. 43: 2025/10/30
51: F17C

71: Sinoma Science & Technology(chengdu)Co., Ltd
72: GUO Yongzhi, LI Ming, FENG Cunjiang, YANG Minggao, HUANG Min, HU Lei, LIU Bo, QI Na

54: CARBON FIBER STEEL-LINED FULLY-WRAPPED HYDROGEN STORAGE CYLINDER

00: -

The present invention provides a carbon fiber steel-lined fully-wrapped hydrogen storage cylinder, falling within the technical field of hydrogen storage cylinders, including a metal inner liner and protective sleeves. A fiber composite layer is arranged on the outer side of the metal inner liner. A rubber layer is arranged between the metal inner liner and the fiber composite layer, one side of the rubber layer close to the metal inner liner is wound and fixed with the metal inner liner. In this carbon fiber steel-lined fully-wrapped hydrogen storage cylinder, before winding the carbon fiber composite material around the metal inner liner, a rubber material with a thickness of about 0.5 mm is wound or laid on the outer surface of the metal inner liner to completely isolate the metal inner liner from the carbon fiber composite material. Since rubber is a polymer material with only very few movable ions or free electrons in its structure for conducting electricity, rubber is basically non-conductive and is an insulator. Therefore, the occurrence of electrochemical corrosion is avoided. Through the above operations, electrochemical corrosion between the oxidation of the metal inner liner and the fiber composite layer may be prevented.

21: 2025/03339. 22: 2025/04/22. 43: 2025/11/03
51: G08B

71: Sichuan Provincial Highway Planning, Survey, Design and Research Institute Co., Ltd, Chengdu Vocational & Technical College of Industry
72: Xiao Dong, Liu Hongyuan, Huang Rui, Wen Linan, Guan Xu, Zha Yan, Li Bing, Lu Xiaoyu, Yan Silu, Feng Yan, Liu Xuemin

33: CN 31: 2025103269874 32: 2025-03-19

54: A FIRE MONITORING METHOD IN HIGHWAY TUNNELS

00: -

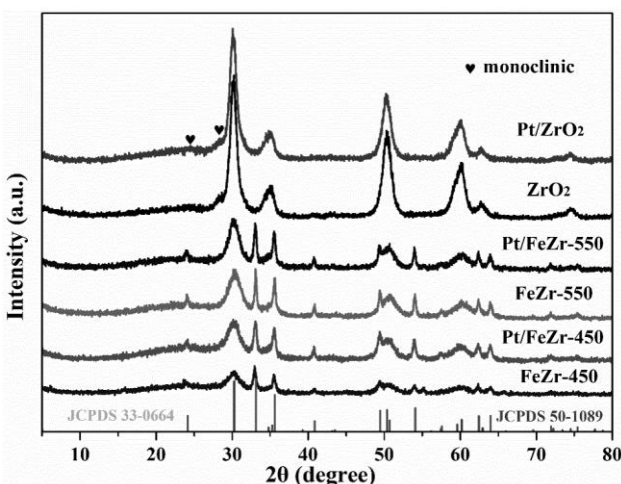
The invention discloses a fire monitoring method for highway tunnels, related to the field of safety monitoring technology. The method includes the following steps: constructing a multi-modal monitoring network within the highway tunnel; the multi-modal monitoring network consists of a distributed temperature sensing network, a composite gas detection module, a video capturing module, and auxiliary fire-fighting equipment; based on the multi-modal monitoring network, utilizing a trained fire warning model to dynamically analyze real-time conditions in the target area, issuing alerts to the staff according to a preset hierarchical warning mechanism, and outputting corresponding control signals for the auxiliary fire-fighting equipment; wherein the fire warning model is constructed based on a Bayesian network model and spatiotemporal correlation analysis. This invention can improve the accuracy and timeliness of fire monitoring.

Constructing a multi-modal monitoring network within the highway tunnel; the multi-modal monitoring network is composed of a distributed temperature sensing network, a composite gas detection module, a video shooting module, and auxiliary firefighting equipment.

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Based on the multi-modal monitoring network, using a trained fire early warning model to dynamically analyze the real-time situation of the target area, issuing warnings to the staff according to a preset graded warning mechanism, and outputting corresponding control signals for the auxiliary firefighting equipment; wherein the fire early warning model is constructed based on a Bayesian network model and spatiotemporal correlation analysis.

200



21: 2025/03341. 22: 2025/04/22. 43: 2025/10/30
51: B01J

71: Henan University of Urban Construction

72: SUN Hua, ZHANG Yanbing, REN Haibo

54: FE-MODIFIED PT/ZRO2 CATALYST AND PREPARATION METHOD THEREOF AND APPLICATION IN THE CATALYTIC DEGRADATION OF TOLUENE THEREOF

00: -

The present invention discloses an Fe-modified Pt/ZrO₂ catalyst, its preparation method, and its application in the catalytic degradation of toluene, belonging to the technical field of catalytic toluene degradation. The preparation method includes the following steps: synthesizing MIL-101/UiO-66 using a seed-mediated method, calcining it in an air atmosphere to obtain an orange-red powder as a carrier; and then employing an impregnation-NaBH₄ reduction method, in which the carrier is immersed in an H₂PtCl₆ solution, stirred uniformly, reduced by NaBH₄, and then centrifuged and calcined to obtain the Fe-modified Pt/ZrO₂ catalyst. The catalyst prepared by the method of the present invention exhibits low-temperature reducibility, abundant surface-active oxygen species, and excellent surface-active oxygen migration capability. These properties facilitate the rapid consumption and timely replenishment of active oxygen during toluene oxidation, thereby endowing the catalyst with outstanding catalytic oxidation activity for toluene.

21: 2025/03342. 22: 2025/04/22. 43: 2025/11/03

51: G01M; G01N

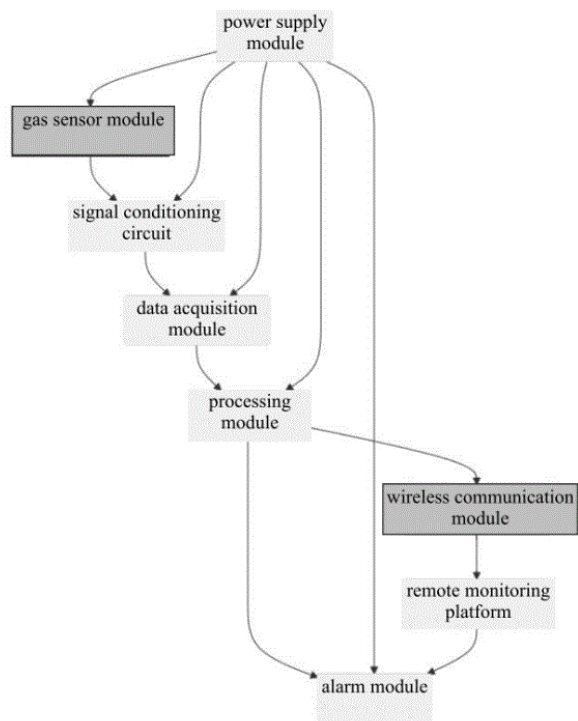
71: Shandong Huayu University of Technology

72: Rongrong Zhao, Shuai Zhao, Feng Li, Hongmei Wei, Zhigang Wei

54: GAS LEAKAGE MONITORING SYSTEM BASED ON INTERNET OF THINGS

00: -

A gas leakage monitoring system based on the Internet of Things, comprising a gas sensor module, a signal conditioning circuit, a data acquisition module, a processing module, a wireless communication module, a power supply module, an alarm module and a remote monitoring platform. The gas sensor module adopts high-sensitivity catalytic combustion and electrochemical sensors, and is deployed in a multi-point distributed manner at the entrance and exit of the gas pipeline, near the valve and in the high-risk area of the place of use, so as to detect the gas concentration in real time. The signal conditioning circuit amplifies, filters and linearizes the sensor signals to ensure the stability and anti-interference of signal transmission. The data acquisition module collects signals synchronously through multi-channel chips, and the processing module has built-in gas concentration analysis algorithm and threshold comparison logic to determine the risk of leakage in real time. Wireless communication module ensures the reliability of data transmission and real-time remote monitoring. The alarm module issues timely alarms and cuts off gas supply through audible and visual alarms and relay linkage control.



21: 2025/03343. 22: 2025/04/22. 43: 2025/11/03
51: H04L

71: NINGBO UNIVERSITY OF FINANCE AND ECONOMICS

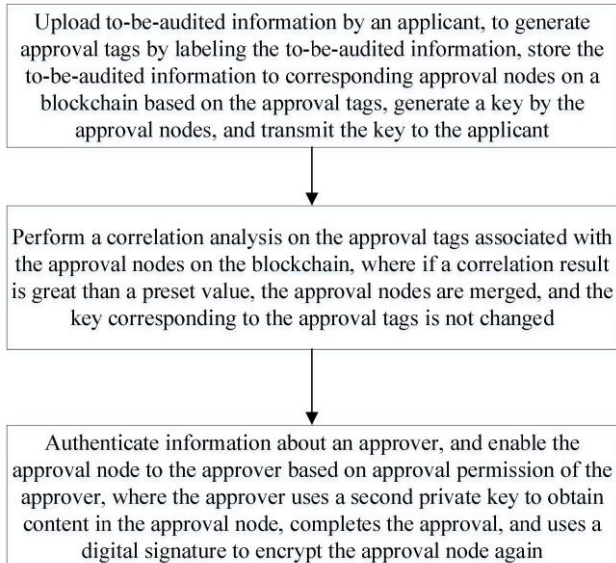
72: ZHENG, Liya, YU, Jiuhong, SAFI ADNAN, WANG, Baoyin, XU, Jiaojie, Ji, Xiang fei

54: BLOCKCHAIN-BASED SECURITY AUDIT METHOD AND SYSTEM

00: -

The present invention discloses a blockchain-based security audit method and system, and relates to the field of information security. An applicant uploads to-be-audited information, to generate approval tags by labeling the to-be-audited information, store the to-be-audited information to corresponding approval nodes on a blockchain based on the approval tags, generate a key by the approval nodes, and transmit the key to the applicant. A correlation analysis is performed on the approval tags associated with the approval nodes on the blockchain, where if a correlation result is great than a preset value, the approval nodes are merged, and the key corresponding to the approval tags is not changed. Information about an approver is authenticated and the approval node is enabled to the approver based on approval permission of the approver, and the approver uses a second private key to obtain content in the approval node, completes the

approval, and uses a digital signature to encrypt the approval node again. According to the present invention, the confidentiality and integrity of data are greatly improved, to prevent information from being stolen or tampered with during transmission and storage, and effectively protect user data privacy.



21: 2025/03344. 22: 2025/04/22. 43: 2025/11/03
51: G01N

71: The Chinese University of Hong Kong, Shenzhen

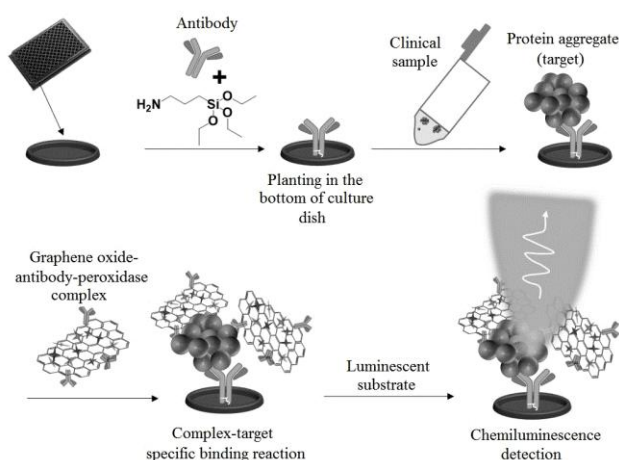
72: JIANG Cheng, ZHOU Yuhang, LI Chenzhong

54: DETECTIVE ELEMENT OF NEURONAL PROTEIN AGGREGATE AND APPLICATION THEREOF

00: -

The invention provides a detective element of neuronal protein aggregate and application thereof, belongs to the technical field of bioinstrumentation, the invention provides a detective element of neuronal protein aggregate, the detective element takes graphene oxide as a skeleton and carries a detective antibody-glutathione peroxidase complex; it also provides an application of the detective element in preparing a detection kit for neuronal protein aggregates. In the invention, the capture antibody is firstly used to identify the monomer protein in the sample to be detected, so as to avoid the false positive interference of the monomer protein, and then the antibody recognition protein aggregate is detected, so that no signal is generated to the monomer, and the specificity is improved; At the same time, the detective element is also

constructed, and the signal amplification is realized by loading more enzymes on nano-materials to improve the sensitivity. The invention can detect that protein aggregate with neurotoxicity with high sensitivity and high specificity unde the condition that monomers and aggregate protein coexist, and has the advantages of low cost, high flux and rapid detection, and has practical application value.



21: 2025/03345. 22: 2025/04/22. 43: 2025/11/03

51: A01G

71: BIJIE MEDICAL COLLEGE, Bijie Traditional Chinese Medicine Research Institute

72: CHEN, Xiaofang, ZHANG, Xiangyu, LIU, Min, ZOU, Tao, LI, Kaiyang, YE, Mao, XU, Hai, WANG, Jingzhou, XIONG, Houxi

54: CULTIVATION METHOD FOR PINELLIA TERNATA

00: -

Disclosed is a cultivation method for *P. ternata*, which belongs to the technical field of cultivation of Chinese medicinal materials. The cultivation method for *P. ternata* provided by the present invention includes: placing a *P. ternata* tuber on a cultivation substrate, sprinkling a microbial inoculum composition on the *P. ternata* tuber, and then covering the cultivation substrate for cultivation. The microbial inoculum composition includes *Funneliformis mosseae* complete culture, *Rhizophagus intraradices* complete culture and *Bacillus velezensis* fermentation broth according to a volume ratio of 1:1:1. The cultivation method of the present invention can promote growth of *P. ternata* plants, reduce a morbidity rate and also improve a yield of the *P. ternata*. The present invention is of

great significance to the green ecological sustainable development of *P. ternata* industry.

21: 2025/03346. 22: 2025/04/22. 43: 2025/11/03

51: B01J

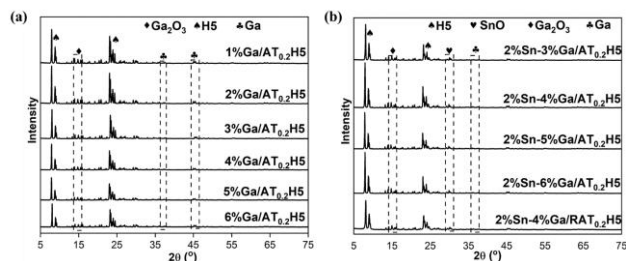
71: Henan University of Urban Construction

72: YANG Zhen, YIN Jia'nan

54: SN-GA/AT0.2H5 CATALYST, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The disclosure provides a Sn-Ga/AT0.2H5 catalyst, a preparation method and an application thereof, belongs to the technical field of catalyst preparation, a preparation method of Sn-Ga/AT0.2H5 catalyst, includes following steps: S1, carrying out calcination 1 to ZSM-5 catalyst to remove impurities, and then etching by strong alkali to obtain AT0.2H5; then, carrying out ion exchange, drying and calcination 2 sequentially to obtain H-type AT0.2H5 molecular sieve as a carrier for loading active metals; S2, immersing the H-type AT0.2H5 molecular sieve in a gallium source solution and a tin source solution in turn by an impregnation method, drying and calcining to obtain a bimetallic 2 wt.% Sn-xGa/AT0.2H5 catalyst; where x is 1-6 wt.%. The bimetallic 2wt.%Sn-xGa/AT0.2H5 catalyst prepared by the method of the invention shows excellent BTEXN selectivity, and its high acid density and rich multi-stage pore structure enhance catalytic activity and reduce carbon deposition; and in the process of cyclic regeneration, the catalyst showed excellent thermal stability.



21: 2025/03349. 22: 2025/04/22. 43: 2025/11/03

51: B01J

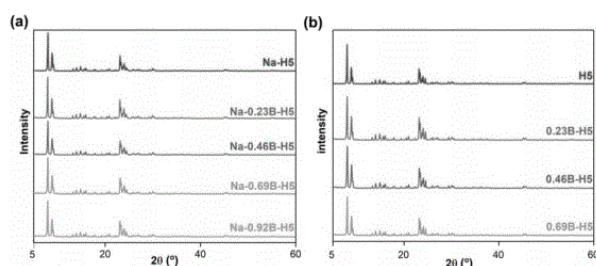
71: Henan University of Urban Construction

72: YANG Zhen, YIN Jia'nan

54: IN-SITU SYNTHESIZED OF B/GA/IN/H5 MOLECULAR SIEVE AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses an in-situ synthesized B/Ga/In/H5 molecular sieve and preparation method and application thereof, belonging to the technical field of lignite resource utilization, the B/H5 nanocatalysts prepared under different synthesis conditions in the invention have higher crystallinity and good multi-stage pore structure, and the specific surface area increases with the increase of B addition, thus providing more reaction sites, and the increased mesoporous volume and average pore diameter improve the mass transfer efficiency and may promote the catalytic reaction. The prepared Ga/H5 catalyst has higher selectivity for BTEXN than B/H5 catalyst, because the properties of Ga are closer to Al, and the introduction of Ga into H5 has little influence on its original skeleton, and at the same time, it may provide more active species to increase the acid content and promote the catalytic conversion process.



21: 2025/03354. 22: 2025/04/22. 43: 2025/11/03
51: C12G

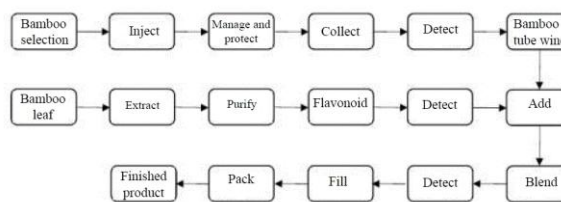
71: International Centre for Bamboo and Rattan
72: YAO Xi, TANG Feng, WANG Jin, XUN Hang, YUAN Haihua

54: FLAVONOID-RICH BAMBOO WINE AND PREPARATION METHOD THEREFOR

00: -

Disclosed is a flavonoid-rich bamboo wine and a preparation method therefor. The method includes the following steps: selecting base liquor with 40°-60° of alcohol content, and 2-5-year-old healthy *Phyllostachys edulis*; selecting 1-2 bamboo cavities, with a liquor injection volume being 50%-90% of a bamboo cavity volume; sealing the liquor after the injection and blending in a natural environment for 30-180 d; adding bamboo leaf flavonoid extract, and performing vacuum filling after blending, with an age deviation of healthy *Phyllostachys edulis* not exceeding ± 3 months; and selecting 1-3 bamboo cavities of healthy *Phyllostachys edulis*, and injecting the base liquor into the bamboo cavities using a

microcellular injection technology, with the liquor injection volume being 50%-90% of the bamboo cavity volume.



21: 2025/03355. 22: 2025/04/22. 43: 2025/11/03
51: A01N

71: International Centre for Bamboo and Rattan
72: Yao Xi, Tang Feng, Wang Jin, Xun Hang, Yuan Haihua

54: FUNGICIDAL COMPOUND FORMULATION CONTAINING TEA TREE OIL, PREPARATION METHOD AND APPLICATIONS THEREOF

00: -

Disclosed are a fungicidal compound formulation containing tea tree oil, a preparation method and applications thereof, falling within the technical field of fungicides. The formulation includes the following components: iprodione 2.5-10%, tea tree oil 15-40%, organic solvent 0-5%, emulsifying dispersant 5-10%, antifreeze agent 0.5-2%, thickener 0-0.5%, and water as the balance, with each component is in percentage by mass. The preparation method includes the steps of uniformly mixing the tea tree oil, the iprodione, the organic solvent and the emulsifying dispersant to form an oil phase; uniformly mixing the antifreeze agent and the thickener with distilled water to form an aqueous phase; and mixing and stirring evenly the oil phase and the aqueous phase to complete the preparation. In the present invention, the formulation has a good fungicidal effect, which can reduce the dosage of chemical pesticides, and the fungicidal compound formulation containing tea tree oil meets quality requirements of pesticide formulation.

21: 2025/03356. 22: 2025/04/22. 43: 2025/11/03
51: A61K

71: Inner Mongolia Medical University
72: HAO Zikai, LIU Chunhui

54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING OSTEOPOROSIS CAUSED BY BREAST CANCER TREATMENT AND/OR MENOPAUSE AND USE THEREOF

00: -

The present disclosure relates to the technical field of traditional Chinese medicine, and specifically discloses a traditional Chinese medicine composition for treating osteoporosis caused by breast cancer treatment and/or menopause and use thereof. The traditional Chinese medicine composition of the present disclosure includes the following components: 15-30 parts of *Codonopsis pilosula*, 15-30 parts of *Rehmannia glutinosa*, 5-7 parts of *Cornus officinalis*, 5-7 parts of *Lycium barbarum*, 5-7 parts of *Chinemys reevesii* Gray, 5-7 parts of *Colla Cornus Cervi*, 15-20 parts of *Epimedium brevicornu*, 12-20 parts of *Ostreae Concha*, 8-12 parts of *Dipsaci radix*, 15-20 parts of *Davallia trichomanoides* Blume, 1-5 parts of *Cuscuta chinensis*, 1-3 parts of *Achyranthes bidentata*, 1-3 parts of *Angelica sinensis*, 1-3 parts of *Paeoniae Radix Alba*, and 6-10 parts of *Aucklandia lappa*. The composition of the present disclosure can significantly improve the levels of estradiol E2, bone turnover markers BALP and P1NP in the serum of breast cancer mice, improve bone density, and the effect is better than that of alendronate sodium and the comparative example, indicating that the composition of the present disclosure has a significant effect in treating osteoporosis caused by breast cancer treatment and/or menopause.

21: 2025/03357. 22: 2025/04/22. 43: 2025/11/03

51: G06F

71: YAHIA SAID, ABIDA KHAN, TAOUFIK SAIDANI, REFKA GHODHBANI, AHMED MOHAMMED ALJAMEELI, SALEH OLAYAN ALASWAD, ZIA UR REHMAN, MOHD IMRAN

72: YAHIA SAID, ABIDA KHAN, TAOUFIK SAIDANI, REFKA GHODHBANI, AHMED MOHAMMED ALJAMEELI, SALEH OLAYAN ALASWAD, ZIA UR REHMAN, MOHD IMRAN

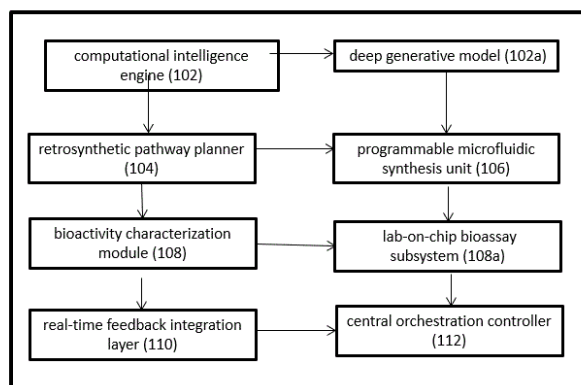
54: SYSTEM FOR AI-ASSISTED IDENTIFICATION AND SYNTHESIS OF NOVEL DRUG CANDIDATES

00: -

The present invention discloses a comprehensive system for AI-assisted identification and synthesis of novel drug candidates, designed to revolutionize the traditional drug discovery paradigm by integrating advanced machine learning techniques with automated chemical synthesis and real-time biological evaluation. The system comprises a deep

generative model and graph-based neural network for generating and optimizing molecular structures based on multi-objective criteria, a retrosynthetic planning module using AI-augmented decision-making for determining viable chemical synthesis pathways, and a programmable microfluidic synthesis platform capable of executing these pathways under precisely controlled conditions. Synthesized compounds are subjected to real-time physicochemical and bioactivity characterization via embedded spectroscopic, chromatographic, and lab-on-chip bioassay modules. A closed-loop feedback system integrates experimental data into the AI models using reinforcement learning and Bayesian optimization, enabling iterative refinement of molecular designs. The system operates under a centralized orchestration controller and is physically embodied in a tiered hardware architecture comprising computational, synthesis, and analytical modules. This invention significantly accelerates drug discovery cycles, reduces cost, and expands accessible chemical space through a fully autonomous, data-driven, and experimentally grounded framework.

100



21: 2025/03358. 22: 2025/04/22. 43: 2025/11/03

51: G06F; G10L

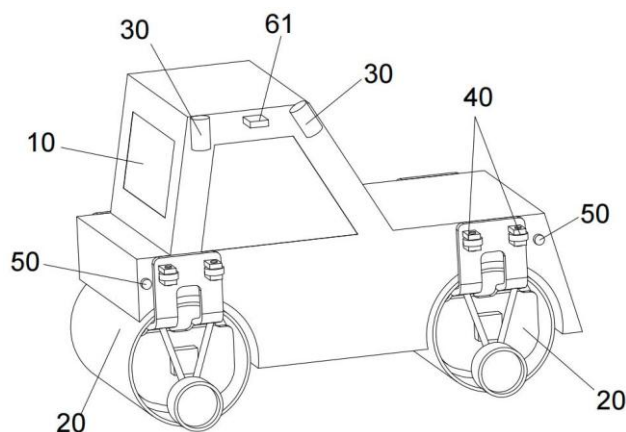
71: CHINA RAILWAY THIRD DIVISION GROUP CO., LTD., CHINA RAILWAY THIRD DIVISION GROUP FIFTH ENGINEERING CO., LTD.

72: FU, Chongyang, WANG, Jin, WU, Yongzhen, SHEN, Xuesong, ZHANG, Xugang, LI, Yingjie, FENG, Li, XIE, Xiaofeng, WEI, Wenyan, ZHANG, Zefeng, QIN, Chensheng, SHAN, Liankun, YANG, Xinyu, FU, Jing, TIAN, Binghu

54: COMPACT EDGE-COMPACTING DEVICE WITH TRIPLE ANTI-COLLISION SYSTEM AND ASSOCIATED SUPPORTING EQUIPMENT

00: -

A compact edge-compacting device with a triple anti-collision system and associated supporting equipment is provided, which relates to the technical field of compaction equipment. The compact edge-compacting device includes a vehicle body, an edge-compaction structure, a camera, an anti-collision guiding device, and lateral warning radars, the edge-compaction structure is mounted at the bottom ends of the front and rear portions of the vehicle body, and the camera is installed at the top end of the vehicle body, positioned on one side of the edge-compaction structure. The present disclosure employs the edge-compaction structure to perform edge-compaction operations, the camera is configured to monitor in real time the clearance between the auxiliary wheel and an adjacent structural member, while integrating an anti-collision guiding device and lateral warning radars to establish a triple-layer collision prevention mechanism, effectively reducing the risk of equipment-body collisions with structural obstacles during operational procedures.



21: 2025/03361. 22: 2025/04/21. 43: 2025/11/03
51: C12N

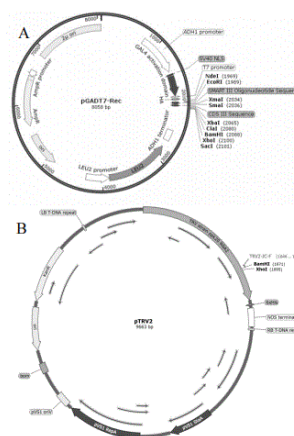
71: SPICE AND BEVERAGE RESEARCH
INSTITUTE, CHINESE ACADEMY OF TROPICAL
AGRICULTURAL SCIENCES
72: WANG, Xi-ao, CHENG, Zhihui, YAN, Lin, MENG,
Huanwen, PAN, Yupeng, LIU, Hanqiang
33: CN 31: 202510189137.4 32: 2025-02-20

54: APPLICATION OF CUCUMBER CSHSP17.8A GENE IN REGULATING HEAT RESISTANCE AND

HIGH-TEMPERATURE AND HIGH-HUMIDITY COMBINED RESISTANCE

00: -

The present invention discloses the application of a CsHSP17.8A gene in regulating heat resistance and high-temperature and high-humidity combined resistance, falling within the technical field of genetic engineering. A nucleotide sequence of the CsHSP17.8A gene is shown in SEQ ID No. 1. Tests verify that the CsHSP17.8A gene positively regulates the tolerance of yeast cells to high temperature and positively regulates the tolerance of cucumber to high-temperature and high-humidity combined stress.



21: 2025/03362. 22: 2025/04/22. 43: 2025/11/03
51: A61K: A61P

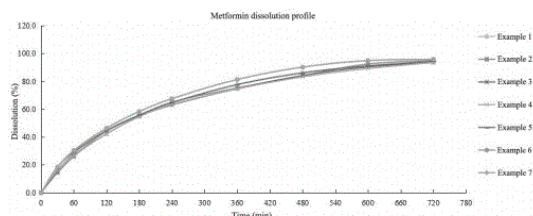
71: SHANDONG INOMIC INSTITUTE OF
PHARMACEUTICAL RESEARCH CO., LTD
72: LI, Mingli, DENG, Changjiang, WANG, Li
33: CN 31: 202310547897.9 32: 2023-05-15

**54: DAPAGLIFLOZIN/METFORMIN SUSTAINED
RELEASE TABLET, PREPARATION METHOD
THEREFOR, AND APPLICATION THEREOF**

00: -

A dapagliflozin/metformin sustained release tablet, a preparation method therefor, and an application thereof. The sustained release tablet comprises: a metformin sustained release tablet core, an isolation layer, a dapagliflozin medicating layer, and a film coating layer; the coating medicating method involves coating Dapagliflozin outside of the metformin tablet core, and the content of dapagliflozin can be easily controlled by increasing weight, thereby improving the uniformity of the medicine content; moreover, providing the isolation layer between the metformin sustained release

tablet core and the dapagliflozin medicating layer, with the dapagliflozin medicating layer covering the surface of the isolation layer, increases the uniformity of medicine content, and ensures effective dissolution of the dapagliflozin. The dapagliflozin/metformin sustained release tablet is used for treating type 2 diabetes.



21: 2025/03399. 22: 2025/04/23. 43: 2025/11/03
51: F21S

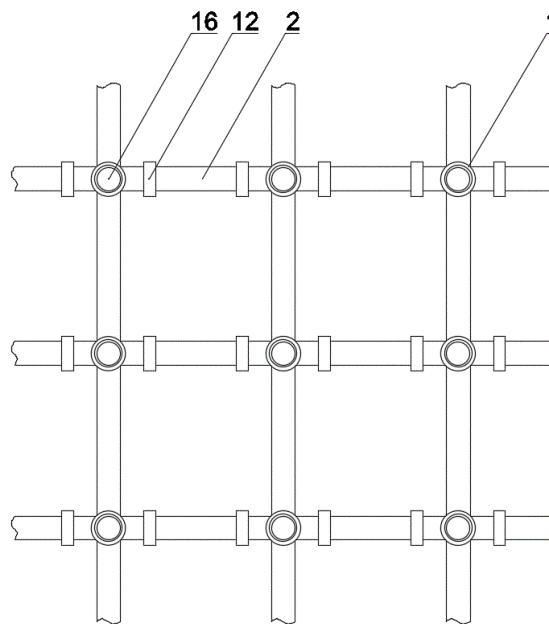
71: Henan University of Urban Construction

72: GAN Taoran, LI Mingze, WANG Yan, CHEN Ruoxi, ZHANG Wenjun, MA Yihan, ZHAO Sai

54: LANDSCAPE LAMP FOR SCENIC GARDENS

00: -

The invention relates to the technical field of landscape lamps and discloses a landscape lamp for scenic gardens. The lamp comprises a plurality of connecting rings arranged in an array, adjacent connecting rings are fixedly connected by first connecting pipes, and several connecting rings and several first connecting pipes form a mesh structure; a connecting assembly comprising several second connecting pipes and several connecting pieces, wherein several second connecting pipes correspond one-to-one with several first connecting pipes, and the connecting parts are set on the second connecting pipes. The second connecting pipes are detachably connected to the first connecting pipes through the connecting parts; and a lighting assembly comprising a lighting part and a protective part, wherein the lighting part is arranged inside the second connecting pipe and extends out from the connecting ring, and the protective part is arranged on the connecting ring. The invention provides a landscape lamp with convenient installation, reduced labor requirements, easy replacement of lighting components, and enhanced protection for the lighting assembly, thereby extending the service life of the decorative lamp.



21: 2025/03400. 22: 2025/04/23. 43: 2025/11/03
51: E02D

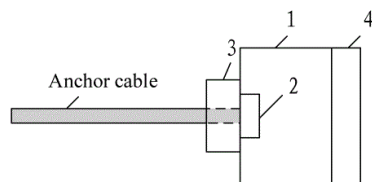
71: Henan University of Urban Construction

72: LONG, Zhe, MIAO, Yueming, ZHAI, Juyun, ZHANG, Shuo, YUAN, Yanzhao, LI, Shuai, YANG, Haoming, LIU, Diedie, LIAO, Hailing

54: VARIABLE-SPEED ANCHOR CABLE TENSIONING INSTRUMENT BASED ON ULTRASONIC FLAW DETECTION

00: -

Disclosed is a variable-speed anchor cable tensioning instrument based on ultrasonic flaw detection, and includes a tensioning module, an acquisition module, and an ultrasonic detection module, all of which are electrically connected with a control module; the tensioning module is configured to tension an anchor cable; the acquisition module is configured to acquire a pressure value of the anchor cable; the ultrasonic detection module is configured to perform ultrasonic flaw detection on the anchor cable to obtain a flaw detection result; the control module is configured to perform variable-speed tensioning according to the change of the pressure value in a loading and unloading process, and stop the tensioning when the flaw detection result indicates the presence of a flaw.



21: 2025/03401. 22: 2025/04/23. 43: 2025/11/03
51: G06F

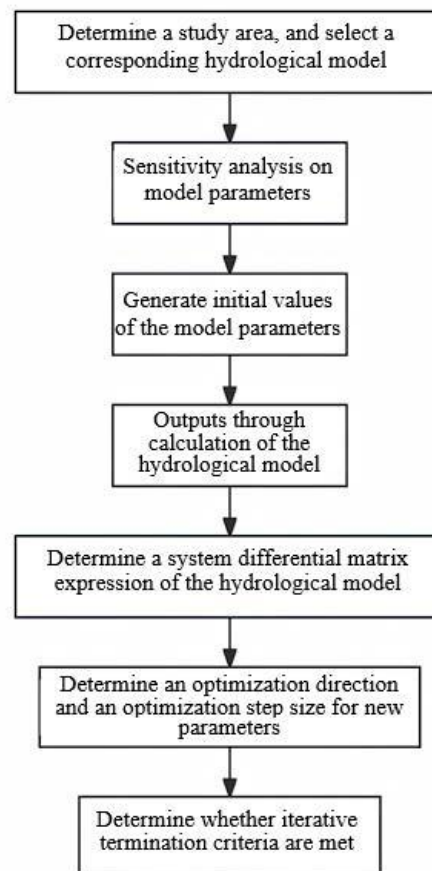
71: GENERAL INSTITUTE OF WATER
RESOURCES AND HYDROPOWER PLANNING
AND DESIGN, MINISTRY OF WATER
RESOURCES, CHINA INSTITUTE OF WATER
RESOURCES AND HYDROPOWER RESEARCH

72: ZHAO, Liping, XING, Xigang, GUO, Xuning,
ZOU, Xinyi, LIU, Weifeng, WANG, Jianwen, WANG,
Sinan, LI, Wei, WANG, Huijie, LIU, Kai, SHI,
Wenlong, JIANG, Chenhui, ZHENG, Chengxin

54: METHOD FOR AUTOMATIC CALIBRATION OF HYDROLOGICAL MODEL PARAMETERS

00: -

The present invention discloses a method for automatic calibration of hydrological model parameters, and relates to the technical field of catchment hydrological models. The method includes: determining a study area, and selecting a corresponding hydrological model; performing a sensitivity analysis on model parameters; generating initial values of the model parameters; obtaining outputs through calculation of the hydrological model; determining a system differential matrix expression of the hydrological model; determining an optimization direction and an optimization step size for new parameters; and determining whether iterative termination criteria are met. According to the present invention, flood simulation and forecasting technologies are improved, accuracy of hydrological model simulation and real-time flood forecasting is improved, critical technical support for flood control decision-making and smart water management is further provided; and significant references for an optimal control theory in other disciplines are provided.



21: 2025/03402. 22: 2025/04/23. 43: 2025/11/03
51: G06N

71: Henan University of Urban Construction

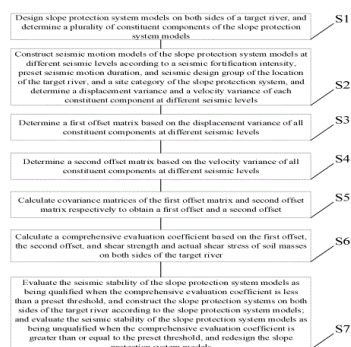
72: LONG, Zhe, MIAO, Yueming, ZHAI, Juyun,
YUAN, Yanzhao, ZHANG, Shuo, LIU, Fei, WANG,
Yifan, LIU, Caiyun, ZHANG, Hao

54: METHOD AND DEVICE FOR EVALUATING SEISMIC STABILITY OF SLOPE PROTECTION SYSTEMS ON BOTH SIDES OF RIVER

00: -

Disclosed is a method and device for evaluating seismic stability of slope protection systems on both sides of a river, which relates to the field of slope construction. The method includes: designing slope protection system models on both sides of a target river; constructing seismic motion models of the slope protection system models at different seismic levels, and determining a displacement variance and a velocity variance of each constituent component at different seismic levels; determining a first offset matrix and a second offset matrix respectively; calculating covariance matrices of the first offset matrix and second offset matrix to obtain a first

offset and a second offset; calculating a comprehensive evaluation coefficient; and evaluating the seismic stability of the slope protection system models as being qualified when the comprehensive evaluation coefficient is less than a preset threshold.



21: 2025/03408. 22: 2025/04/23. 43: 2025/11/03

51: A61B

71: Guangxi University, Guangxi Minzu University, Hunan University

72: XU Chenghao, ZHANG Zhe, DING Can, WU Xinzhang, LIANG Lianhui, LIU Min, ZHANG Yiyi, MIAO Zhiqiang, LUO Jianqiao

54: A DAPTIVE LEARNING SURGICAL ROBOT INTELLIGENT CONTROL SYSTEM

00: -

The present invention patent discloses an intelligent control system for adaptive learning surgical robots, specifically related to the field of surgical robots. Including: multimodal sensing module: integrated high-precision force sensor or torque sensor, multispectral imaging device, 6-degree-of-freedom position tracker; Deep learning processor: using a three-level neural network architecture to analyze multimodal data in real-time, namely the CNN-LSTM fusion network model; Adaptive control engine: dynamically adjust the output force of the robotic arm based on organizational mechanics characteristics and optimize the motion path; Surgical knowledge base: stores expert operation modes and historical data, supports incremental learning updates. The technical solution of the present invention solves the problem that the existing surgical robot control system cannot adaptively adjust according to the surgical process, and improves the performance of the surgical robot.

21: 2025/03409. 22: 2025/04/23. 43: 2025/11/03

51: C04B

71: CHINA RAILWAY 12 BUREAU GROUP CO., LTD., THE 4TH ENGINEERING CO., LTD. OF CHINA RAILWAY 12TH BUREAU GROUP

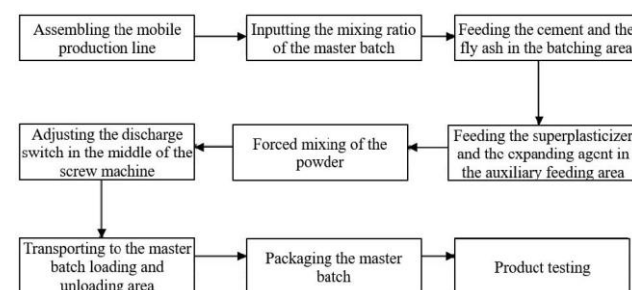
72: CUI, Yangang, LI, Guichao, WANG, Erbing, JIA, Youxiu, BAO, Yeming, WU, Yansheng, LI, Jianping, SHEN, Hairui, MA, Zhanggen

33: CN 31: 2024109326077 32: 2024-07-12

54: PREMIXED GROUTING MATERIAL FOR TUNNEL SECONDARY LINING CONCRETE AND FLOWING-TYPE PRODUCTION METHOD THEREOF

00: -

The present invention belongs to the technical field of grouting materials for railway tunnel secondary lining concrete, and particularly relates to a premixed grouting material for tunnel secondary lining concrete and a flowing-type production method thereof. The grouting material includes the following raw materials in parts by mass: 44-46 parts of portland cement, 43-46 parts of machine-made sand, 9-11 parts of fly ash, 0.18-0.2 parts of a polycarboxylate superplasticizer, 0.024-0.026 parts of a defoamer, 0.02-0.04 parts of an expanding agent, 0.03-0.05 parts of a rheological agent, and 0.01-0.03 parts of boric acid. The retarding effect, the water retention effect, the flexural and compressive strength of the grouting material for tunnel secondary lining concrete prepared in the present invention are all improved, thereby facilitating the improvement of the comprehensive performance of the grouting material for tunnel.



21: 2025/03481. 22: 2025/04/24. 43: 2025/11/07

51: G06F

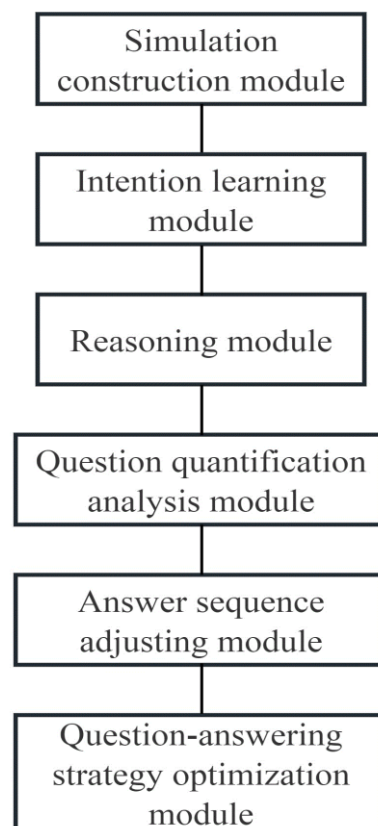
71: The Second Affiliated Hospital of Kunming Medical University

72: KE Yang, PI Jiangyuan, WANG Jiaping, ZHENG Xi, DENG Qiu, LI Yukai, LIANG Yubo, WANG Qingbo, LI Jin, CHEN Xingming, LUO Wanling, YANG Zisheng, ZUO Jinxiang, LIU Shurui, ZHU Songlin

54: SYSTEM FOR CLINICAL THINKING TRAINING ASSISTED BY ARTIFICIAL INTELLIGENCE FOR INQUISITION OF MEDICAL STUDENTS

00: -

The invention discloses a system for clinical thinking training assisted by artificial intelligence for inquisition of medical students, the system includes a simulation construction module is used for collecting case data and generating a simulated patient; a intention learning module is used for converting the question into an intention question with a question intention type prompt; a reasoning module is used for recording thinking templates of different thinking modes; a selection module is used for simulating answers by using the LLM question-answering model and generating a plurality of answer subsets; a question quantification analysis module is used for obtaining a question quantification result based on the question text input by the medical students; an answer sequence adjusting module is used for obtaining an adjusted answer sequence based on the question quantization result and a preset mapping rule; and a question-answering strategy optimization module is used for recording the question-answering pair data of the medical students and the simulated patients, and dynamically adjusting the generation strategy of the answer sequence by adopting a circular neural network model to complete the artificial intelligence-assisted clinical thinking training system for medical students.



21: 2025/03482. 22: 2025/04/24. 43: 2025/11/07
51: B64C; B64D; G05D

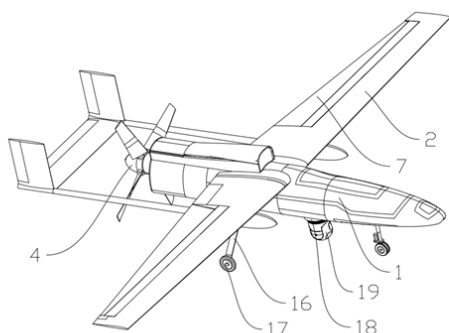
71: XINGZHI COLLEGE ZHEJIANG NORMAL UNIVERSITY, MERRY WISER (JINHUA) TECHNOLOGY DEVELOPMENT CO., LTD
72: HUANG, Yixuan, DUAN, Zhizhuang, HUANG, Ruiyang, ZHU, Jun, HAN, Baoyi, GU, Zhiyun

54: UNMANNED AERIAL VEHICLE WITH SELF-RESCUE FUNCTION

00: -

The present application relates to an unmanned aerial vehicle with a self-rescue function, including a fuselage main body and wing main wings. An inner part of the fuselage main body is arranged with a power cabin, an inner part of the power cabin is arranged with a driving assembly, one end of the driving assembly is driven and connected to a driving wing, a surface of the fuselage main body is arranged with a self-rescue cabin, an inner part of the self-rescue cabin is arranged with a launching assembly, an inner part of the launching assembly is arranged with a parachute, the power cabin and the self-rescue cabin are communicated, one side, close to the power cabin, of the self-rescue cabin is

arranged with a first support plate, and the first support plate is arranged with a starter for controlling a switch of the launching assembly.



21: 2025/03483. 22: 2025/04/24. 43: 2025/11/07
51: A61J; F25D

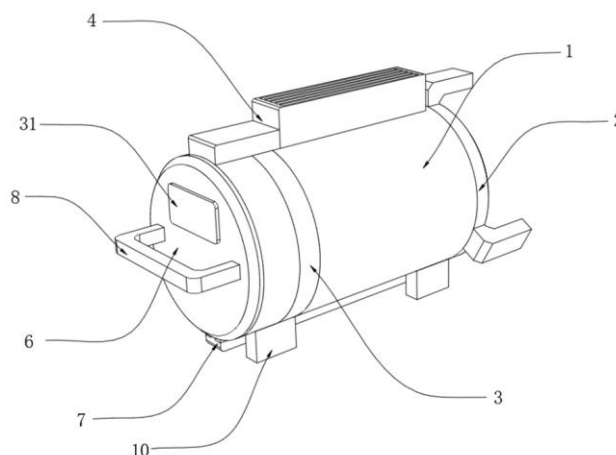
71: CHONGQING CHEMICAL INDUSTRY
VOCATIONAL COLLEGE

72: ZHANG, Jingzhou, DENG, Jinfeng

**54: STORAGE DEVICE FOR HEDGEHOG
SIGNALING PATHWAY INHIBITOR**

00: -

Disclosed is a storage device for a Hedgehog signaling pathway inhibitor, including a tank. A right surface of the tank is fixedly connected with a base plate; a left end of the tank is connected with a top plate through a fixing assembly; the fixing assembly includes a fixing ring; the fixing ring is connected to a middle position between the top plate and the tank; a drive motor is mounted on an inner wall of the fixing assembly; an output shaft of the drive motor penetrates through a left surface of the tank; a right end of the output shaft of the drive motor is fixedly connected with a rotating rack; fixing jackets are fixedly connected to an inner wall of the rotating rack; storage tubes are inserted in inner walls of the fixing jackets; and a refrigeration device is mounted on an outer wall of the tank.



21: 2025/03484. 22: 2025/04/24. 43: 2025/11/07
51: G21F; H01L

71: HAINAN NUCLEAR POWER CO., LTD,
ZHEJIANG UNIVERSITY, HEXIN INFORMATION
TECHNOLOGY(BEIJING)CO., LTD.

72: ZHANG, Chengliang, JU, Bingfeng, HAN, Pei,
XIA, Hao, CHEN, Jianxin, LIN, Weifeng, MENG,
Chengshui, WU, Tong, SUN, Anyu, HE, Qiongrui,
ZHANG, Luyin, SHU, Yi, WANG, Deying, ZHANG,
Chuan

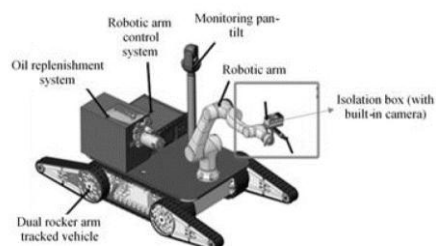
33: CN 31: 202411946172.8 32: 2024-12-27

**54: METHOD FOR METAL PROTECTIVE
HOUSING DESIGN OF ELECTRONIC
COMPONENT OF RADIATION-RESISTANT
ROBOT**

00: -

The present application provides a method for designing a metal protective housing for irradiation-resistant robotic electronic components, the method for designing the metal protective housing for irradiation-resistant robotic electronic components comprising: installing a concave reflective curved surface window at the same position on the irradiation-resistant metal housing as on the camera; and designing a light source accommodating groove on the irradiation-resistant metal housing that is connected to the reflective curved surface window. The light source holding slot is used for mounting an infrared light source. The concave reflective curved window is used to mount an optical lens of the camera module so that light from the infrared light source is reflected by the curved surface of the concave reflective curved window and then emitted. By installing the concave reflective surface window and the light source holding slot connected to the reflective surface window at the same position as the camera on the irradiation-resistant metal housing,

the present application solves the technical problem of the irradiation-resistant robot in which the camera itself or the structural design affects the final imaging effect.



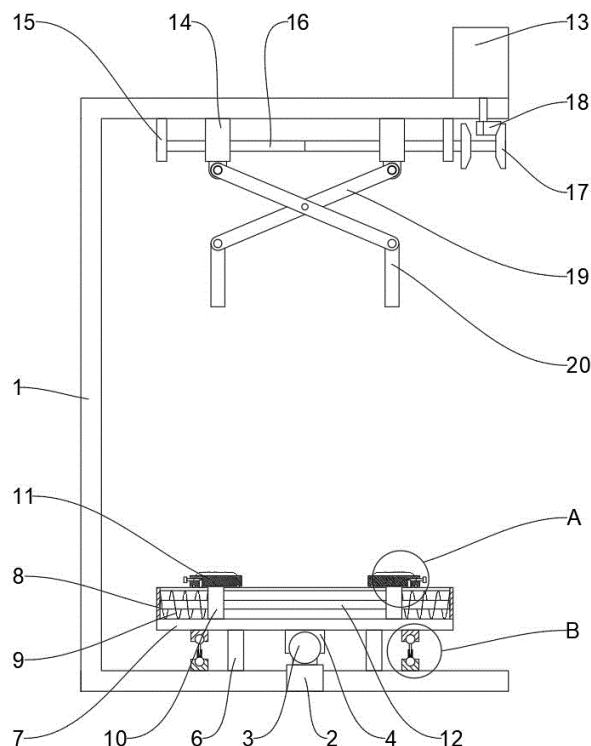
21: 2025/03485. 22: 2025/04/24. 43: 2025/11/07
51: A63B

71: Henan University of Urban Construction
72: LIU Peipei, MAO Qiusi, LI Xinke, GUO Mengyao, LI Xi

54: DANCE APPARATUS FOR COORDINATED BALANCE AND FLEXIBILITY TRAINING

00: -

The present invention belongs to the technical field of dance teaching, particularly relating to a dance apparatus for coordinated balance and flexibility training. During use, the apparatus of the present invention stretches the limbs of trainees through the first stretching assembly and the second stretching assembly, thereby improving limb flexibility. The first stretching assembly specifically targets leg stretching to enhance lower-body flexibility. When the lifting platform rises, the bearing plate separates from the top seats. Since the bearing plate is connected to the lifting end of the lifting platform via a ball-and-socket joint, it can freely pivot around the first hinge ball, allowing trainees standing on the bearing plate to practice balance. The elastic components ensure the bearing plate remains level when not in use. The apparatus of the present invention effectively trains limb flexibility, leg flexibility, and balance, while offering adjustable settings to meet varying training demands. This enhances the effectiveness of dance teaching and practice, fulfilling the practical requirements of dance training.



21: 2025/03486. 22: 2025/04/24. 43: 2025/11/07
51: A61F

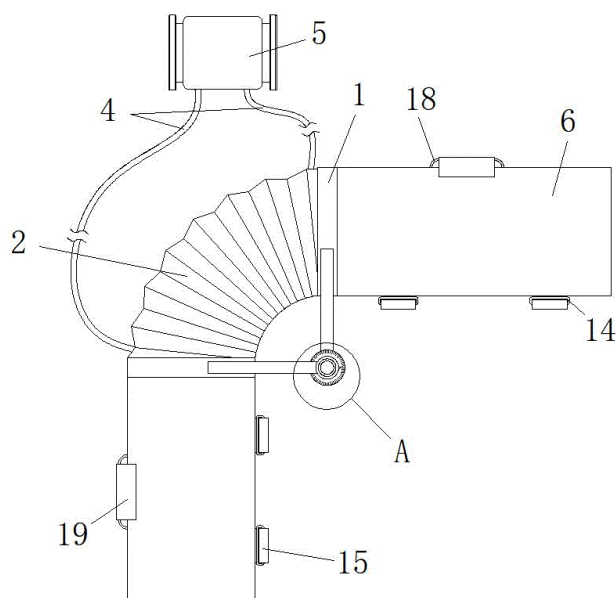
71: The Affiliated Hospital of Qingdao University
72: LI Haiyan, SU Qingqing, LI Houxi, LI Qi, WANG Chunyan

54: COLD COMPRESS NURSING DEVICE FOR BONE AND JOINT CIRCULATION

00: -

The invention discloses a cold compress nursing device for bone and joint circulation, including two semicircular frames hinged with each other, and a telescopic sleeve, the telescopic sleeve may be telescopic in a sector is arranged between the two semi-circular frames, the cross section of the telescopic sleeve is circular with one side open, a cavity is arranged in the telescopic sleeve, and a circulating pipe communicated with the cavity is arranged on the telescopic sleeve, one end of the circulating pipe far away from the telescopic sleeve is communicated with a refrigerating water tank, and the refrigerating water tank is communicated with the circulating pipe through a circulating pump; through the device, the patient's joints may be stably cold-compressed, and the angle may be adjusted according to the patient's joint bending degree, thus improving the practicability of the device; by applying external force to the locking sleeve, the locking

sleeve may move along the fixing rod, and at the same time, the fixed ring and the fixed original plate may be pressed and contacted with each other, so that the fixed ring and the fixed original plate are relatively fixed, and the angle of the two semicircular frames is fixed.



21: 2025/03487. 22: 2025/04/24. 43: 2025/11/07
51: B32B

71: Tianjin Shenwei Flexible Protective Materials Technology Co., Ltd.

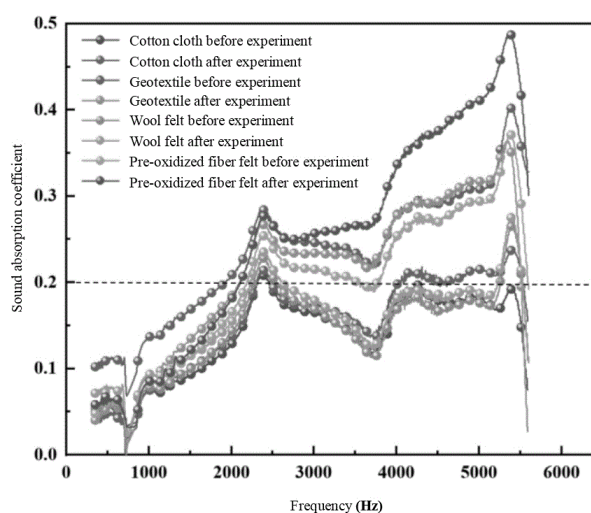
72: LIU Yuanjun, LIU Han, ZHAO Xiaoming

54: HOT-PRESSING AND PERFORATION PREPARATION PROCESS FOR GRAPHENE/SiO₂-BASED PRE-OXIDIZED FIBER FELT SOUND-ABSORBING MATERIAL FOR NOISE PROTECTION

00: -

The present invention discloses a hot-pressing and perforation preparation process for a graphene/SiO₂-based pre-oxidized fiber felt sound-absorbing material for noise protection, relating to textile material technology. The preparation method comprises the following steps: weighing 8 g of graphene powder, 8 g of SiO₂ powder, and 80 g of polyurethane resin, placing them in a disperser, and adding a dispersant, leveling agent, defoamer, and thickener simultaneously. The mixture is stirred for 30–40 minutes to obtain a viscous and flowable composite. The pre-oxidized fiber felt is immersed in the prepared graphene/SiO₂/polyurethane mixture and subjected to a two-dip-two-nip process with a

pickup rate of 50%–80%. The padded pre-oxidized fiber felt is then hot-pressed at 120 degrees Celsius and 5 MPa for 30–70 minutes. After hot-pressing, demolding is performed. A laser engraving machine is used to perforate the material, with a perforation diameter of 0.5–0.9 mm and a perforation rate of 8%–13%, yielding the graphene-based sound-absorbing material. The sound-absorbing material prepared by this invention exhibits excellent acoustic performance, low cost, and high environmental friendliness, making it suitable for wide application in architectural acoustics, transportation noise reduction, and related fields.



21: 2025/03488. 22: 2025/04/24. 43: 2025/11/07
51: G01N

71: Inner Mongolia Academy of Agricultural & Animal Husbandry Sciences

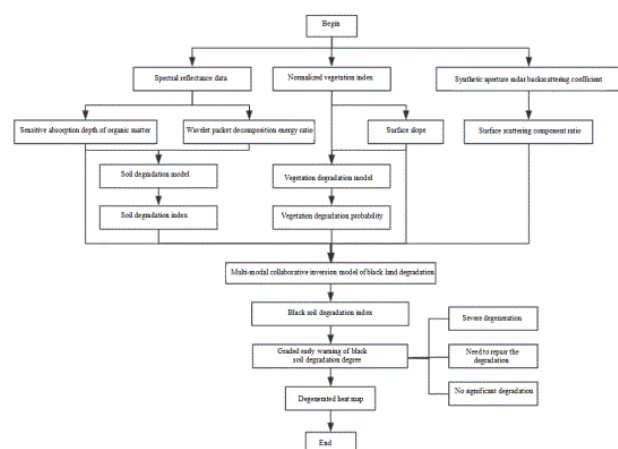
72: Wulan Tuya, Wang Baolin, Bao Junwei, Ji Shiyu, Guo Jia, Sun Dele

54: METHOD FOR MONITORING MULTI-MODAL CROSS-SCALE BLACK SOIL DEGRADATION

00: -

The invention discloses a method for monitoring multi-modal cross-scale black soil degradation, which relates to the technical field of agricultural digital diagnosis, and comprises the following steps: integrating multi-modal monitoring data including spectral reflectivity, normalized vegetation index and synthetic aperture radar backscattering coefficient, constructing a black soil feature sequence table, establishing a soil and vegetation degradation model to output black soil degradation index, and dynamically generating a Kriging interpolation heat map through three-dimensional GIS to realize

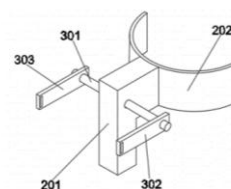
continuous degradation evaluation in time and space. The method effectively breaks through the data island limitation in the traditional monitoring technology, significantly improves the comprehensiveness and accuracy of the extraction of degradation features, innovatively constructs a dual-model collaborative inversion framework, synchronously quantifies the degradation parameters of soil and vegetation, accurately reveals the multi-scale degradation mechanism of black soil, introduces dynamic Kriging interpolation and three-dimensional GIS visualization technology, realizes the continuous tracking of the degradation process in time and space, provides decision-level support for the optimal allocation of agricultural resources and ecological restoration, and promotes the intelligent and refined transformation of black land protection.



21: 2025/03525. 22: 2025/04/25. 43: 2025/11/07
 51: A63B
 71: THE AFFILIATED TAIZHOU PEOPLE'S HOSPITAL OF NANJING MEDICAL UNIVERSITY
 72: WU, Yucheng, ZHANG, Qingqing, LIN, Jie, WANG, Ruzhu, WANG, Lichun, WANG, Lin
54: AEROBIC EXERCISE APPARATUS FOR CARDIAC REHABILITATION OF CARDIOVASCULAR DISEASES

00: -
 Disclosed is an aerobic exercise apparatus for cardiac rehabilitation of cardiovascular diseases, including a housing, a support mechanism, an anti-falling mechanism and a running mechanism. The support mechanism includes a first connecting bar and a U-shaped bracket, the first connecting bar is L-shaped, and the U-shaped bracket is disposed at

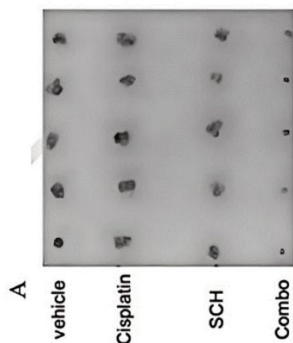
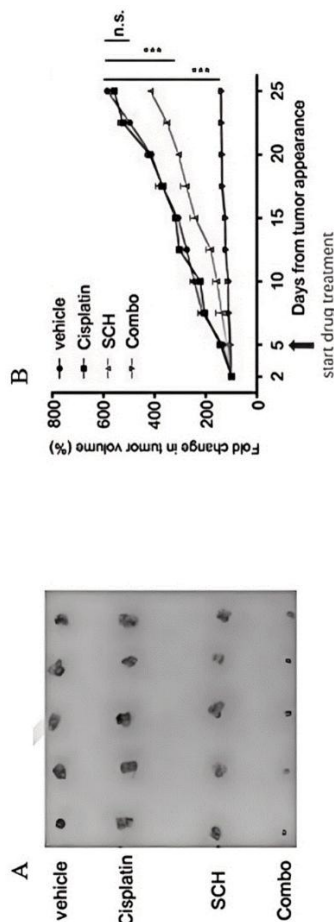
a top end of the first connecting bar. The anti-falling mechanism includes a first connecting sheet and a second connecting sheet, an extension rod is disposed on front and rear sides of the first connecting bar, the first connecting sheet and the second connecting sheet are hingedly disposed on the extension rod, a safety belt is detachably disposed between the first connecting sheet and the opposite first connecting sheet, and the safety belt is detachably disposed between the second connecting sheet and the opposite second connecting sheet.



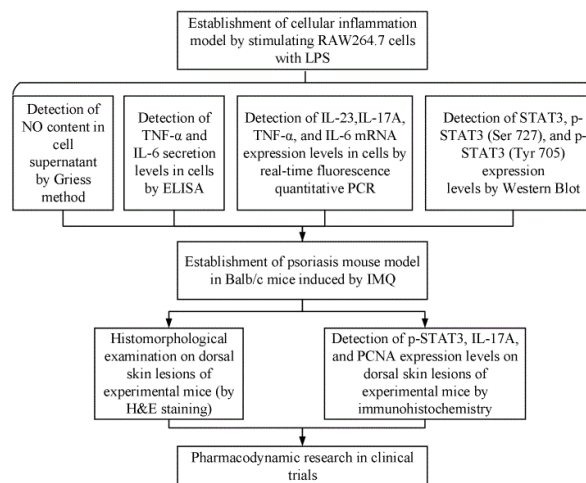
21: 2025/03526. 22: 2025/04/25. 43: 2025/11/07
 51: A61K
 71: THE SECOND HOSPITAL OF DALIAN MEDICAL UNIVERSITY
 72: WANG Kainan, LI Man, ZHAO Zuowei, WANG Xueqing
54: PHARMACEUTICAL COMPOSITION CONTAINING WINE-PROCESSED SALVIA CHINENSIS COMBINED WITH CISPLATIN AND APPLICATION IN TREATING MALIGNANT TUMORS THEREOF

00: -
 The invention discloses a pharmaceutical composition comprising wine-processed Salvia Chinensis (SCH) combined with Cisplatin and its application in treating malignant tumors, belonging to the technical field of antitumor drugs. The pharmaceutical composition consists of wine-processed Salvia Chinensis and Cisplatin, with a mass ratio of 200-400:1. Experimental results demonstrate that wine-processed Salvia Chinensis can enhance the drug sensitivity of malignant tumors such as breast cancer to Cisplatin, exhibiting significant clinical potential. This provides survival benefits for tumor patients, offers new strategies for overcoming platinum resistance in clinical practice, and contributes to the integration of traditional Chinese and Western medicine in antitumor therapy. It also provides new targets for personalized and

precise tumor treatment, holding important clinical value.



inhibiting production of pro-inflammatory factors (such as tumor necrosis factor (TNF)-alpha and IL-6) and regulating IL-23/STAT3/IL-17A signaling pathways. Moreover, as a natural medicament, Tan may more safely and stably inhibit production of IL-17A and thus serves as a desirable IL-17A inhibitor.



21: 2025/03528. 22: 2025/04/25. 43: 2025/11/07
51: G01N

71: Zhaojia Yang

72: Zhaojia Yang, Luzhu Mao, Jiezhen Cao

54: AUTOMATED ANOMALY MONITORING SYSTEM BASED ON ARTIFICIAL INTELLIGENCE
00: -

An automated anomaly monitoring system based on artificial intelligence, comprising an space-air-ground integrated information collection module, a multi-modal data processing module, an automated anomaly monitoring model design module, a model performance enhancement module and a data automated anomaly classification module. The invention relates to the technical field of abnormal data processing; this solution innovatively proposes a three-layer collaborative perception information collection architecture of air-space-ground, which has the advantages of full-scene coverage, multi-granularity perception, and strong spatiotemporal continuity in data collection, enhancing the data integrity and reliability of abnormal event monitoring; it innovatively designs a cross-modal spatiotemporal fusion analysis model, realizing the deep spatiotemporal fusion of multi-source heterogeneous data, improving the accuracy of abnormal event monitoring; it innovatively improves the particle swarm algorithm through a dynamic mutation rate

21: 2025/03527. 22: 2025/04/25. 43: 2025/11/07
51: A61K; A61P

71: Xiangnan University, WANG, Junjie

72: WANG, Junjie, LIU, Qing, LI, Yujuan, PENG, Qunlong, LIU, Siyu, LIU, Jing

33: CN 31: 202411383947.5 32: 2024-09-30

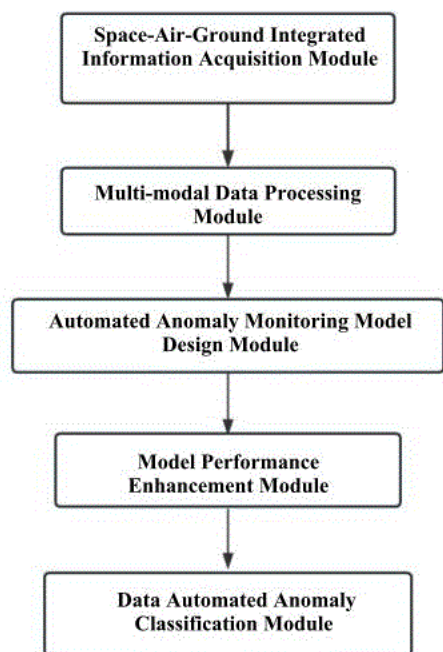
54: USE OF INTERLEUKIN (IL)-17A INHIBITOR IN PREPARATION OF MEDICAMENT FOR TREATING INFLAMMATORY DISEASE

00: -

The present disclosure relates to the technical field of biomedicine, in particular to use of an interleukin (IL)-17A inhibitor in the preparation of a medicament for treating an inflammatory disease. Use of an IL-17A inhibitor in the preparation of a medicament for treating an inflammatory disease is provided.

Studies have proved that tangeretin (Tan) shows a significant anti-inflammatory activity both in vivo and in vitro, and may reduce inflammatory responses by

control strategy to obtain the optimal model parameters, thereby improving the response speed and monitoring accuracy of abnormal monitoring.

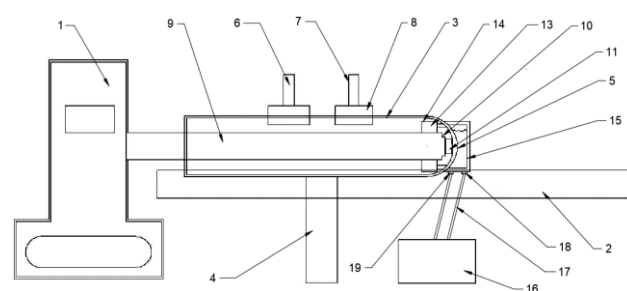


21: 2025/03529. 22: 2025/04/25. 43: 2025/11/12
 51: G01N
 71: Sinoma Science & Technology(chengdu)Co.,Ltd
 72: LI Shihong, FENG Cunjiang, HE Jiachao, HOU Zhenliang

33: CN 31: 2024117163156 32: 2024-11-27
54: AUTOMATIC BOTTOM-SCRAPING AND BOTTOM GAS-TIGHTNESS TESTING METHOD FOR SINGLE-VALVE STEEL GAS CYLINDERS
 00: -

The invention relates to the technical field of pressure vessel manufacturing, and discloses an automatic bottom-scraping and bottom gas-tightness testing method for single-valve steel gas cylinders, including a machine tool body and a conveying roller track, with an automatic bottom-scraping component and an gas-tightness detection component disposed at a front end of the machine tool body; the automatic bottom-scraping component includes a rotating shaft, and at a front end of the rotating shaft is provided a telescopic platform; at a front end of the telescopic platform is provided a bottom-scraping blade that contacts an inner bottom surface of a workpiece. The gas-tightness detection component includes an internal sealed cabin, and the internal sealed cabin includes a flexible ring arranged at a

front section of the rotating shaft, with an outer edge of the flexible ring abutting against the inner bottom surface of the workpiece bottom. The invention further includes a transparent detection box, with an outer edge of the transparent detection box abutting against an outer bottom surface of the workpiece, and a liquid for detection is provided inside the transparent detection box. By integrating bottom-scraping and gas-tightness testing into a single process, the present invention enhances production efficiency and ensures comprehensive and precise detection, eliminating intermediate transfer steps and achieving simultaneous cutting and inspection, thereby effectively improving container quality.



21: 2025/03530. 22: 2025/04/25. 43: 2025/11/12
 51: B24B
 71: Sinoma Science & Technology (chengdu) Co., Ltd

72: LI Shihong, YI Hao, FENG Cunjiang, ZHANG Yunjin, HE Qinling, TANG Yong

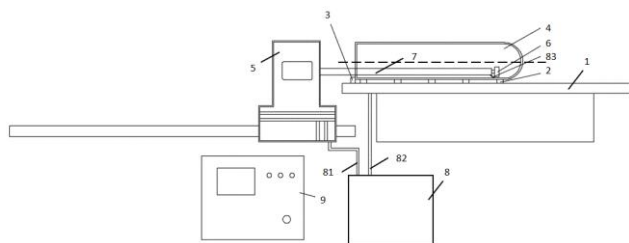
33: CN 31: 2024117281932 32: 2024-11-28

54: GRINDING AND POLISHING DEVICE AND METHOD FOR INNER SURFACE OF TUBULAR WORKPIECES

00: -

The present invention relates to the technical field of inner surface grinding and provides a grinding and polishing device and method for inner surface of tubular workpieces, including an operating table, a grinding assembly, and a main control system; a roller set is arranged on the side of the operating table close to the grinding assembly; a front limiting member is arranged at a gap on the front side of the roller set facing the grinding assembly; the roller set is used for placing a tubular workpiece, and the rotation direction of the rollers of the roller set is perpendicular to the axial direction of the tubular workpiece; all rollers have an inclination angle along the axial direction of the tubular workpiece; and the main control system is electrically connected to both

the driving device and the grinding assembly. This solution adopts a grinding method in which the rollers drive the workpiece to rotate, avoiding the risk of deformation of the clamped workpiece. By using the specially arranged rollers and the front limiting member, the rotation of the workpiece is limited, solving the problem of displacement that may occur when the surface of the workpiece is oily and the rollers drive the workpiece to rotate. The inclined rollers and the parameter adaptation settings make the possible displacement of the workpiece when the rollers drive it have a high degree of coincidence with the grinding path of the grinding head. Even if the workpiece is displaced, the grinding quality may still be ensured.



21: 2025/03532. 22: 2025/04/25. 43: 2025/11/07
51: G06F

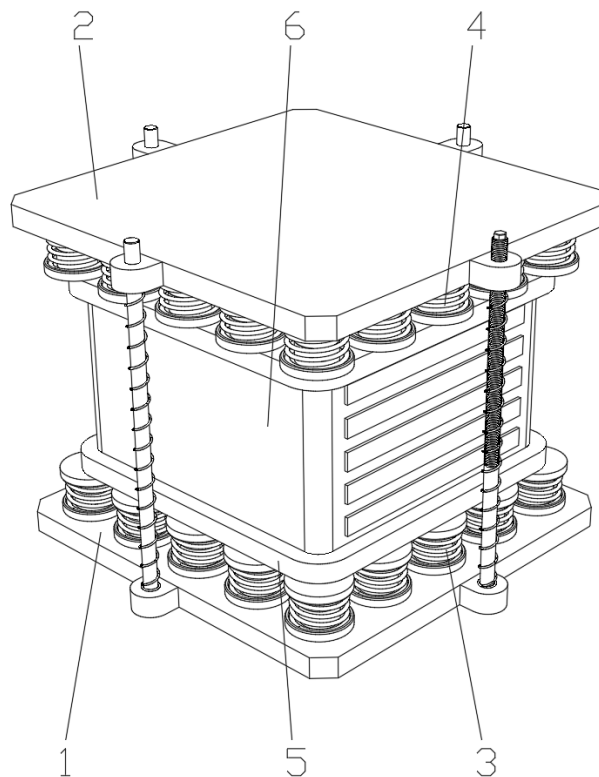
71: NANCHANG INSTITUTE OF TECHNOLOGY
72: KANG, Shuiping

54: DEVICE FOR PROTECTING COMPUTER APPLICATION DATA SAFETY

00: -

A device for protecting computer application data, comprising a device outer seat assembly. A device upper cover plate is screwed onto one end of the outer seat, and a lower buffering protection assembly is inserted at the other end. An upper buffering protection assembly is inserted beneath the upper cover plate, with a balancing plate arranged above the lower buffering protection assembly. Multiple sets of upper and lower buffering protection assemblies are used. A socket part fits into hexagonal plug-in slots of both the base and the cover plate, aligning three groups of locking bolt parts with corresponding limiting holes. The buffering assemblies are then rotated. A locking part positioned within a cam cavity enables the rotation of the locking bolts to secure the structure. This design allows for rapid assembly and disassembly, enhancing convenience and operational safety in

mounting the buffering assemblies for physical protection of sensitive computer components.



21: 2025/03534. 22: 2025/04/25. 43: 2025/11/12
51: G06Q

71: ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY

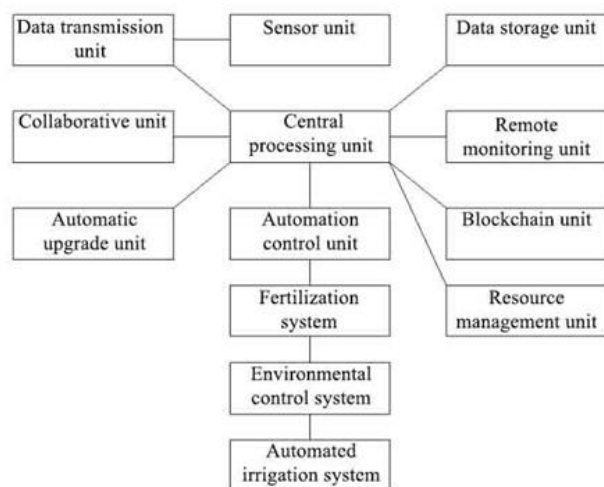
72: REN, Shuhui, XU, Bing, REN, Liangliang, WANG, Yanping, ZHAO, Na

54: INTELLIGENT AGRICULTURAL MANAGEMENT SYSTEM BASED ON INTERNET OF THINGS

00: -

The present invention relates to an intelligent agricultural management system based on the Internet of Things. The system includes a central processing unit, a sensor unit, and a data transmission unit for real-time monitoring of key agricultural parameters. The data transmission unit sends information to the central unit, which is also connected to a remote monitoring unit and a collaborative unit controlling an integrated unmanned aerial vehicle (UAV) system. The UAV is equipped with high-definition cameras, thermal imaging devices, and spectral sensors to inspect farmland and monitor crop growth. By integrating IoT technology with automation and sensors, the system

allows real-time monitoring and dynamic adjustment of environmental factors such as temperature, humidity, irrigation, and fertilization. This reduces the need for human intervention, improves crop growth efficiency, and increases productivity. The invention offers a comprehensive solution for precise, automated agricultural management using real-time data and advanced sensing technologies.



21: 2025/03535. 22: 2025/04/25. 43: 2025/11/12

51: G01N

71: ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY

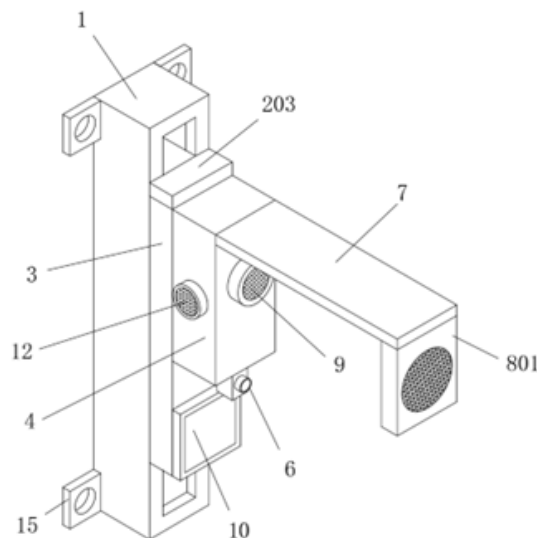
72: LUO, Qian

54: COAL SPONTANEOUS COMBUSTION PREDICTING AND FORECASTING DEVICE FOR COAL MINE SAFETY MONITORING

00: -

The present invention relates to coal mine safety prediction and discloses a device for forecasting coal spontaneous combustion. The device comprises an installation seat with an inner cavity housing a disassembly component, and an installation plate fixed to its right side. A box body is connected to the installation plate, with a motor installed at the bottom of its inner cavity. The design enables quick installation and secure fixing of the forecasting device. The motor drives an infrared temperature detector to adjust its angle, allowing for temperature monitoring in various directions and expanding the detection range. A blower component is included to improve air circulation within the mine. Since smoke typically precedes fire during spontaneous combustion, the blower enhances the delivery of air to a smoke sensor, enabling faster smoke detection.

This combination of temperature and smoke monitoring improves early detection, increases safety, and enhances the efficiency of coal mine fire hazard prediction.



21: 2025/03537. 22: 2025/04/25. 43: 2025/11/12

51: G06F

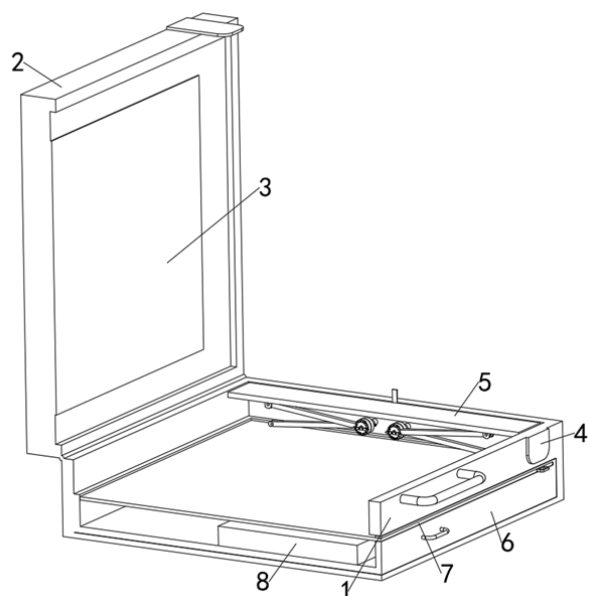
71: XINYU UNIVERSITY

72: ZHOU, Yi, LI, Minyi

54: ARTIFICIAL INTELLIGENCE E-COMMERCE LEARNING DEVICE

00: -

An artificial intelligence e-commerce learning device related to the field of e-commerce technology. It comprises a box body with a movably connected keyboard and a storage component. The storage component includes a storage box and a partition plate, which are movably connected inside the box body. Two protruding blocks are provided on the outer side of the partition plate, allowing the user to pull the plate outward to adjust the storage space. By actively connecting the storage box and partition plate and utilizing the protruding blocks, users can easily expand or reduce storage space for learning materials, tools, or the keyboard. When needed, the partition plate can be pulled to enlarge the space, or retracted to use the keyboard directly on the partition plate. This design greatly improves space utilization, user convenience, and operational flexibility, making it highly suitable for intelligent, portable learning environments focused on e-commerce education.



21: 2025/03543. 22: 2025/04/25. 43: 2025/11/12
 51: C02F; C12J
 71: JINZHONG UNIVERSITY
 72: Jia ZHAO, Jianwei HAO, Ruiqi NING, Junlin RU, Yanan HUANG, Weiqin GE
54: AN ENZYME FRUIT VINEGAR RICH IN γ -AMINOBUTYRIC ACID AND ANAEROBIC-AEROBIC COUPLING FERMENTATION METHOD THEREOF

00: -

An enzyme fruit vinegar rich in γ -aminobutyric acid and anaerobic-aerobic coupling fermentation method thereof, relates to the technical field of food bioscience, the enzyme fruit vinegar rich in γ -aminobutyric acid is made from the following raw materials: fruits, composite strains, sodium glutamate, and auxiliary materials, the composite strains include yeast, lactic acid bacteria, and acetic acid bacteria, and the auxiliary materials include brown sugar, rock candy, honey and white granulated sugar. This enzyme fruit vinegar not only has the sweet and sour flavor of fruit vinegar but also is rich in γ -aminobutyric acid, with good health-care functions.

21: 2025/03544. 22: 2025/04/25. 43: 2025/11/12
 51: G06F
 71: ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY
 72: ZHANG, Lijuan, LIU, Meiqi, LI, Diyou

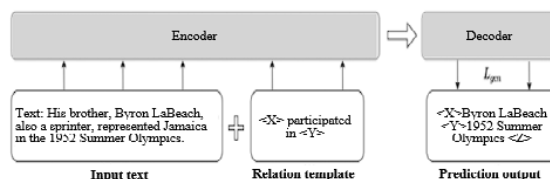
33: CN 31: 2025100074605 32: 2025-01-03

54: METHOD AND SYSTEM FOR EXTRACTING TRIPLE TEXT INFORMATION

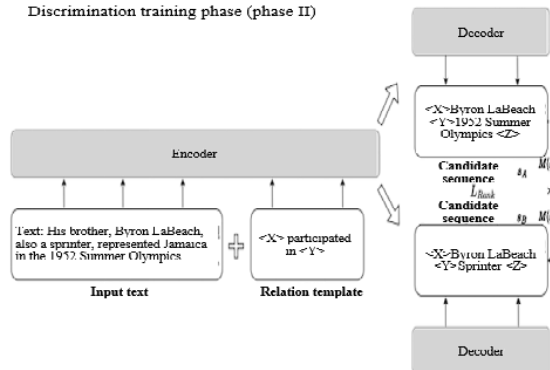
00: -

The present invention discloses a method and a system for extracting triple text information, and relates to the technical field of natural language processing. A ZEHD model is preset, wherein the ZEHD model includes a generation training phase and a discrimination training phase; in the generation training phase, input information and a template are input into the ZEHD model to train the ZEHD model, and a reverse cross-entropy loss function is combined to improve the text quality of the generated output sequence; in the discrimination training phase, a candidate relation triple is generated by beam search decoding, the candidate relation triple is evaluated by a predefined scoring criterion, a high-scoring candidate triple sequence is screened, a loss function of the ZEHD model is optimized by the high-scoring candidate triple sequence, the ZEHD model is adjusted by the loss function, and the output sequence is ranked by the adjusted ZEHD model. The present invention can generate more accurate relation triples and accurately rank the triple information.

Generation training phase (phase I)



Discrimination training phase (phase II)



21: 2025/03546. 22: 2025/04/25. 43: 2025/11/12
 51: F17D

71: TANGSHAN UNIVERSITY

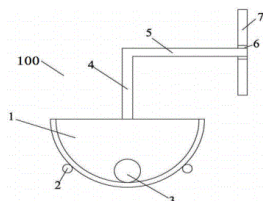
72: CUI, Yue, YANG, Xiangbin, WANG, Huigang

33: CN 31: 202311544129.4 32: 2023-11-18

54: PIPELINE INSPECTION ROBOT

00: -

The present invention relates to the technical field of pipeline inspection apparatuses. Disclosed is a pipeline inspection robot, comprising a movable base, a support rod mechanism, and an inspection mechanism, wherein the movable base serves as a movable basis for the whole pipeline inspection robot, and can move back and forth along the inner wall of a pipeline so as to drive the whole pipeline inspection robot to inspect the inner wall of the pipeline; the support rod mechanism plays a role in supporting the inspection mechanism on the movable base, and a tail end of the support rod mechanism extends out of the outer edge of the movable base, such that the movable base does not influence the rotation of the inspection mechanism; and a rotating rod is driven by an electric motor to rotate relative to the support rod mechanism, such that an inspection probe at a tail end of a support arm assembly extends or retracts to a corresponding inner-wall position on a pipeline on the basis of the inner diameter of the pipeline and under the action of a telescopic rod assembly, thereby inspecting the inner walls of pipelines having different pipe diameters. The pipeline inspection robot in the present invention has a simple structure and a good operation stability, has the characteristics of low manufacturing costs and low maintenance costs, and is suitable for vigorous popularization and use.

**54: PREPARATION METHOD FOR POLYPORUS UMBELLATUS SOUP, POLYPORUS UMBELLATUS EXTRACTUM, AND SOLID FORMULATION OF POLYPORUS UMBELLATUS**

00: -

The present invention relates to the technical field of medicines, in particular to a preparation method for a polyporus umbellatus soup, a polyporus umbellatus extractum, and a solid formulation of polyporus umbellatus. The preparation method provided by the present invention comprises: soaking four traditional Chinese medicines in water to give a pre-soaking solution, wherein the four traditional Chinese medicines include polyporus umbellatus, poria cocos, rhizoma alismatis, and talc; performing a first boiling extraction on the pre-soaking solution to give a first water extract and a medicine residue; mixing the medicine residue and water for a second boiling extraction to give a second water extract; performing a first concentration on the first water extract to give a first concentrated solution; combining the first concentrated solution and the second water extract, and performing a second concentration to give a second concentrated solution; and mixing the second concentrated solution with an aqueous solution of donkey-hide gelatin to give the polyporus umbellatus soup. The preparation method for the polyporus umbellatus soup provided by the present invention comprehensively considers water extraction and concentration, which guarantees the consistency of the extraction effect of the obtained polyporus umbellatus soup and a reference sample of a traditional polyporus umbellatus decoction. The contents of effective active ingredients in the obtained polyporus umbellatus soup is high, and the efficacy is good.

21: 2025/03547. 22: 2025/04/25. 43: 2025/11/12

51: A61K

71: DONG-E-E-JIAO CO., LTD.

72: QI, Xiaodan, ZHANG, Yan, WANG, Zhongchao,

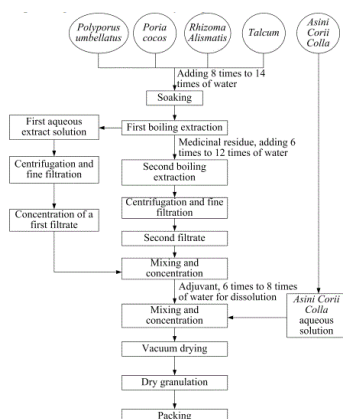
LIU, Haibin, WANG, Yantao, ZHANG, Yan, YANG,

Haiju, KONG, Lingmei, WANG, Chunyan, QIAN,

Liyang, ZHAO, Haiqing, MA, Liping, HE, Wenhui, LI,

Shidong

33: CN 31: 202211174012.7 32: 2022-09-26



21: 2025/03551. 22: 2025/04/25. 43: 2025/11/12
51: A61K; G01N; A61P
71: DONG-E-E-JIAO CO., LTD.

72: WANG, Chunyan, LIU, Haibin, ZHANG, Yan, WANG, Zhongchao, CHENG, Jie, QI, Xiaodan, KONG, Lingmei, QIAN, Liyan, MA, Liping, ZHANG, Yan, ZHAO, Haiqing, YANG, Haiju

33: CN 31: 202211173779.8 32: 2022-09-26

54: REHMANNIA AND LYCIUM ROOT BARK DECOCTION WATER EXTRACT SOLUTION, REHMANNIA AND LYCIUM ROOT BARK DECOCTION WATER EXTRACT PASTE, REHMANNIA AND LYCIUM ROOT BARK DECOCTION PREPARATION AND PREPARATION METHOD THEREFOR, AND QUALITY CONTROL STANDARD FOR REHMANNIA AND LYCIUM ROOT BARK DECOCTION PREPARATION

00: -

Provided are a rehmannia and lycium root bark decoction water extract solution, a rehmannia and lycium root bark decoction water extract paste, a rehmannia and lycium root bark decoction preparation and a preparation method therefor, and a detection method for a rehmannia and lycium root bark decoction preparation. Active pharmaceutical ingredients of the rehmannia and lycium root bark decoction are rehmannia stir-baked with wine, radix scrophulariae, radix paeoniae alba stir-baked with wine, radix ophiopogonis, lycium root bark, and donkey-hide gelatin. According to the preparation method, a concentration approach in which extract solutions obtained from three extractions are concentrated separately is used, such that the concentration time of paeoniflorin at a low concentration and the absolute heating concentration time of a herb solution are shortened, thereby solving the problem of degradation of the

active ingredient paeoniflorin in the rehmannia and lycium root bark decoction. The concentration after extraction is carried out at a relatively low temperature and in vacuum, such that protection and retention of the ingredients are facilitated, avoiding the degradation of ingredients such as paeoniflorin caused by a high temperature.

21: 2025/03603. 22: 2025/04/29. 43: 2025/11/12
51: A23K

71: Tropical Crops Genetic Resources Institute, Chinese Academy of Tropical Agricultural Sciences, National Centre for Crop Disease Control, Ministry of Agriculture, Animal Husbandry and Fisheries, Congo (B), China-aid-Congo (B) Agricultural Technology Demonstration Center

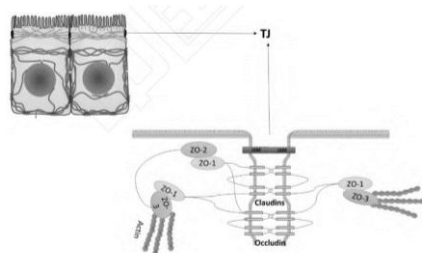
72: LV, Renlong, CAO, Ting, JI, Fengjie, IPEMBA Euphrème, BOUNGOU BAKALA Ghislain, LESSEBE GAMBOU Dieu Leveut, WU, Hongzhi, LI, Hanfeng, HU, Chengjun

33: CN 31: 202411548479.2 32: 2024-11-01

54: APPLICATION OF CALLICARPA NUDIFLORA EXTRACT IN BREEDING WEANED PIGLETS

00: -

The present invention provides application of Callicarpa nudiflora extract in breeding weaned piglets, belonging to the technical field of livestock breeding. The Callicarpa nudiflora extract is used as an antibiotic substitute to prepare feed for weaned piglets, which significantly increases the weight, average daily gain (ADG), and average daily feed intake (ADFI) of the weaned piglets, and can also improve intestinal paracellular pathways of the weaned piglets and strengthen the intestinal barrier of the weaned piglets. Meanwhile, the addition of the Callicarpa nudiflora extract to the feed is highly safe. Therefore, the present invention provides application of Callicarpa nudiflora extract in preparing feed for breeding weaned piglets.



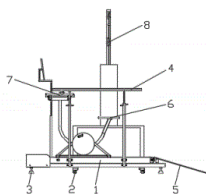
21: 2025/03604. 22: 2025/04/29. 43: 2025/11/12
51: A63B

71: THE AFFILIATED TAIZHOU PEOPLE'S HOSPITAL OF NANJING MEDICAL UNIVERSITY
72: CHEN, Lu, LUO, Dan, LI, Jiangying, JIANG, Wenjuan, WANG, Qiuchen, WANG, Xiaocui, ZHU, Jian

54: AUXILIARY LIMB EXERCISE DEVICE FOR CRITICAL CARE

00: -

The present disclosure discloses an auxiliary limb exercise device for critical care. The auxiliary limb exercise device includes a base plate. An exercise bike is arranged on the base plate, a tension trainer is arranged on a rear side of the exercise bike, an arm trainer is arranged on the exercise bike, and hand grip bars are arranged on the top surface of the base plate and located on both front and back sides of the exercise bike. By arranging the arm trainer, patients may push a push rod back and forth for arm exercise; by arranging the tension trainer, the patients may pull a pull rod for tension training; moving wheels are installed on a bottom surface of the base plate, and adjustable feet are installed on the bottom surface of the base plate; and a guide plate is connected to a right side of the base plate.



21: 2025/03605. 22: 2025/04/29. 43: 2025/11/12
51: C07D

71: Chongqing Academy of Chinese Materia Medica, Chongqing Sericulture Science and Technology Research Institute

72: XING, Kangkang, LIU, Yan, LU, Zenghui, ZHANG, Deli, QIANG, Zhe, LUO, Xiaoling

54: METHOD FOR PRODUCING PSORALEN THROUGH BIOLOGICAL FERMENTATION

00: -

The present invention belongs to the technical field of biological products, and in particular to a method for producing psoralen through biological fermentation. The present invention aims at improving a yield and biological activities of the psoralen, and the method realizes efficient synthesis of the psoralen by optimizing culture media and fermentation conditions and utilizing the characteristics of the strain of *Inonotus hispidus*.

Mulberry twig sawdust is added as a carbon source, which is helpful to provide sufficient nutrients and promote growth and metabolism of the *Inonotus hispidus*. Moreover, D-phenylalanine serves as an amino acid precursor and can improve synthesis efficiency of the psoralen by participating in an enzymatic reaction. By adjusting illumination conditions, a growth state and synthesis of secondary metabolites of the *Inonotus hispidus* can be affected through appropriate illumination, thus contributing to efficient production of the psoralen.

21: 2025/03606. 22: 2025/04/29. 43: 2025/11/14
51: C12N

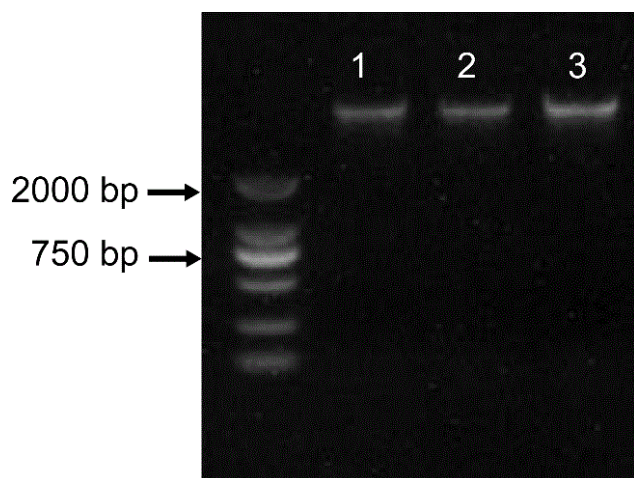
71: Henan University of Urban Construction, Forestry Resources Monitoring Institute of Henan Forestry Administration

72: WU Zhenjiang, LIU Yaqiong, XIANG Hui, LI Leilei, JI Guangsi, ZHU Tao

54: DNA EXTRACTION METHOD OF PLANT LEAVES

00: -

The invention discloses a DNA extraction method of plant leaves, and belongs to the technical field of plant DNA extraction. The extraction method comprises the following steps: placing fresh leaves of plants in a centrifugal tube, putting them in liquid nitrogen for 1-2 min, and pressing them with a sample grinder for 2-3 times; adding DNA extract into centrifuge tube, grinding and centrifuging for many times to obtain DNA. The sample grinder consists of a base, a handle, a sample grinding head and a connecting rod, wherein the base of the sample grinder is made of a rectangular thermal insulation material and used for fixing the connecting rod and the handle; the upper part of the base is connected with the handle, the lower part of the base is connected with the connecting rod, and the lower part of the connecting rod is connected with the sample grinding head. Using a sample grinder to crush plant leaves, the crushing effect is better than scissors. The extraction method has low requirements on laboratory conditions, low cost of used reagents, easy preparation and no need of toxic and harmful reagents; The operation is simple, the effect is good, and it is suitable for rapid extraction of leaves of *Arabidopsis thaliana*, *Papaver rhoeas* and other plants. The method is efficient, economical and practical.



21: 2025/03607. 22: 2025/04/29. 43: 2025/11/14
51: B01J

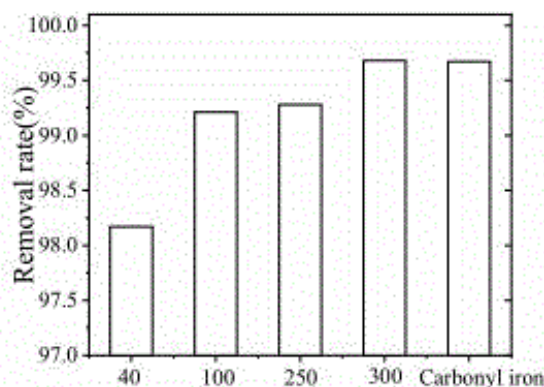
71: HENAN UNIVERSITY OF URBAN
CONSTRUCTION

72: LIANG Feng, WANG Le, LI Songfeng, TIAN
Junfeng, WANG Yong, ZHANG Peixin, DONG
Wenchao, WU Li, JIANG Zhongfeng, HUANG
Xuezheng, ZHU Huijie, ZHAO Yonghui, ZHANG
Jiaxuan, ZHANG Bing

54: ADSORBENT FOR REMOVING ARSENATE FROM WASTEWATER, AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention provides an adsorbent for removing arsenate from wastewater, and preparation method and application thereof, belonging to the technical field of wastewater purification. The preparation method of the adsorbent for removing arsenate from wastewater according to the present invention includes the following steps: drying and crushing green tea leaves, adding deionized water for heating reaction, and filtering to obtain a green tea extract; adding a reaction additive to the green tea extract, then mixing with a ferrous nitrate aqueous solution, and stirring to react to obtain a reaction product; filtering and washing the reaction product, followed by drying and grinding to 40-100 mesh to obtain the adsorbent. This adsorbent exhibits advantages in specific surface area, exposure of active components, dispersibility, and synergistic effects. These factors work together to enable its effective removal of arsenate from wastewater.



21: 2025/03608. 22: 2025/04/29. 43: 2025/11/14
51: B01J

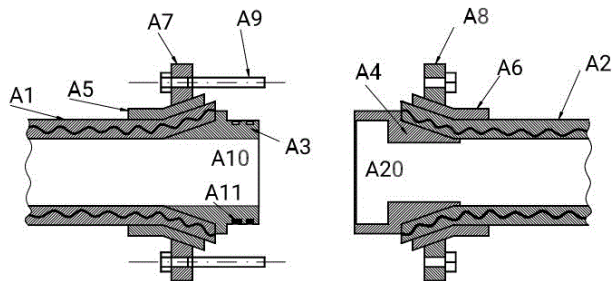
71: HENAN UNIVERSITY OF URBAN
CONSTRUCTION

72: LIANG Feng, LI Fei, LI Songfeng, WU Li,
HUANG Xuezheng, JIANG Zhongfeng, SONG
Fengming, GAO Wenhao, LIU Leyi

54: ENHANCED ATTAPULGITE ADSORBENT WITH HIGH ANTIBACTERIAL EFFECT AND PREPARATION METHOD THEREOF

00: -

Cocamidopropylamine oxide and sodium nitrite are added to pure water, followed by the introduction of sodium dichloroisocyanurate and trichloroisocyanuric acid, and then mixed to form the first solution. Subsequently, trichloroisocyanuric acid and carbon tetrachloride are added to this first solution, mixed thoroughly, and then chitosan and sodium citrate are added and stirred until completely dissolved. Next, peracetic acid and trichloroisocyanuric acid are added to achieve an acidity value of 15-27 mmol/L, resulting in the enhanced additive solution. The enhanced additive solution is then mixed with organically modified granular bentonite/attapulgit adsorbent at a weight ratio of 1:1, thereby avoiding the defects in the prior art where the total coliforms and fecal coliforms in pollutants continue to proliferate, leading to green spots in the surrounding sewage environment and reducing the decontamination efficiency of the attapulgit adsorbent, as well as the issue of motor shaft or rotating shaft flexion due to insecure connections under the stress of shaft rotation.



21: 2025/03609. 22: 2025/04/29. 43: 2025/11/14

51: G06F

71: KRAVCHENKO Artem Aleksandrovich

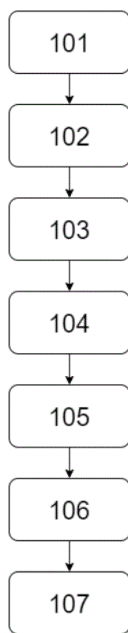
72: KRAVCHENKO Artem Aleksandrovich

33: RU 31: 2024127892 32: 2024-09-21

54: METHOD OF PRE-TRAINING, OR TRAINING, OR POST-TRAINING OF A CLASSIFICATION MODEL

00: -

The proposed technical solution relates to methods of automated text processing and can be used in the text corpus forming. The technical problem solved by the claimed invention is the creation of a method and/or a computer device and/or a system and/or a machine-readable data carrier that do not have the disadvantages of analogs and thus ensure accurate automated formation of a text corpus, which can subsequently be used for pre-training, or training, or fine tuning of classification models and/or clustering models



21: 2025/03610. 22: 2025/04/29. 43: 2025/11/14

51: G06F

71: KRAVCHENKO Artem Aleksandrovich

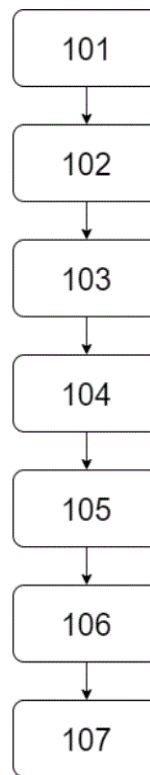
72: KRAVCHENKO Artem Aleksandrovich

33: RU 31: 2024127898 32: 2024-09-21

54: METHOD FOR SELECTING TEXT ANALYSES

00: -

The proposed technical solution relates to methods of automated text processing and can be used in the text corpus forming. The technical problem solved by the claimed invention is the creation of a method and/or a computer device and/or a system and/or a machine-readable data carrier that do not have the disadvantages of analogs and thus ensure accurate automated formation of a text corpus, which can subsequently be used for pre-training, or training, or fine tuning of classification models and/or clustering models



21: 2025/03611. 22: 2025/04/29. 43: 2025/11/14

51: G06F

71: KRAVCHENKO Artem Aleksandrovich

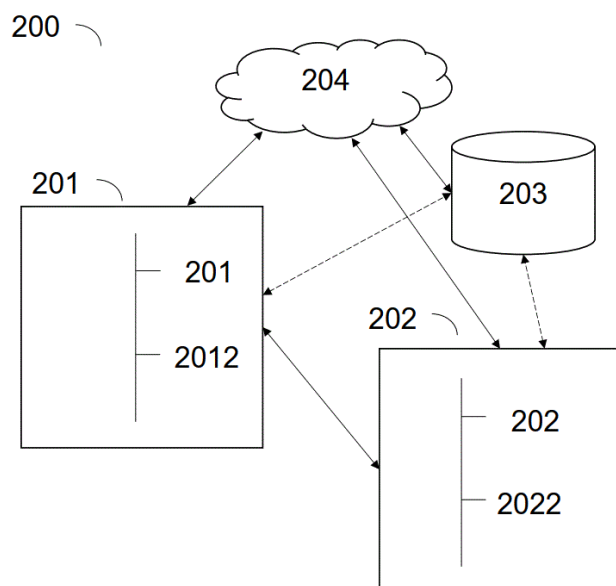
72: KRAVCHENKO Artem Aleksandrovich

33: RU 31: 2024127909 32: 2024-09-21

54: COMPUTER DEVICE FOR GENERATING A TEXT CORPUS

00: -

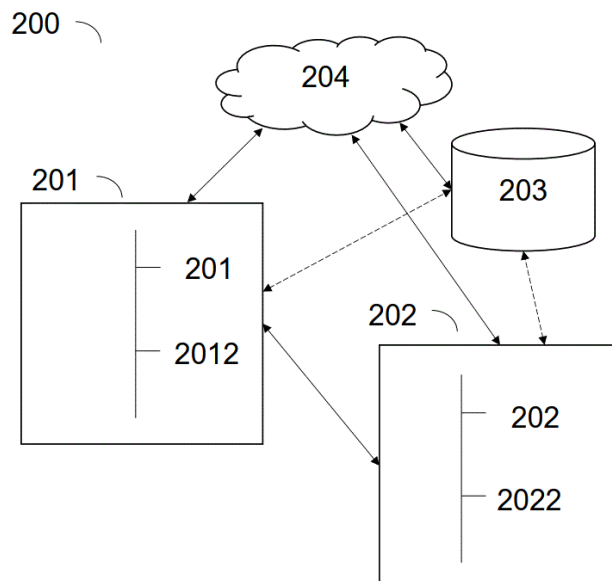
The proposed technical solution relates to methods of automated text processing and can be used in the text corpus forming. The technical problem solved by the claimed invention is the creation of a method and/or a computer device and/or a system and/or a machine-readable data carrier that do not have the disadvantages of analogs and thus ensure accurate automated formation of a text corpus, which can subsequently be used for pre-training, or training, or fine tuning of classification models and/or clustering models



21: 2025/03612. 22: 2025/04/29. 43: 2025/11/14
51: G06F
71: KRAVCHENKO Artem Aleksandrovich
72: KRAVCHENKO Artem Aleksandrovich
33: RU 31: 2024127910 32: 2024-09-21
54: COMPUTER DEVICE FOR GENERATING A TEXT CORPUS

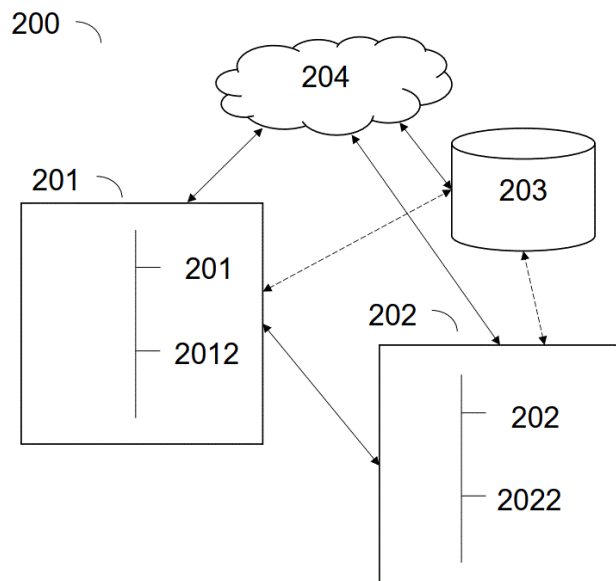
00: -

The proposed technical solution relates to methods of automated text processing and can be used in the text corpus forming. The technical problem solved by the claimed invention is the creation of a method and/or a computer device and/or a system and/or a machine-readable data carrier that do not have the disadvantages of analogs and thus ensure accurate automated formation of a text corpus, which can subsequently be used for pre-training, or training, or fine tuning of classification models and/or clustering models



21: 2025/03613. 22: 2025/04/29. 43: 2025/11/14
51: G06F
71: KRAVCHENKO Artem Aleksandrovich
72: KRAVCHENKO Artem Aleksandrovich
33: RU 31: 2024127911 32: 2024-09-21
54: COMPUTER DEVICE FOR PRE-TRAINING, OR TRAINING, OR POST-TRAINING A CLASSIFICATION MODEL
00: -

The proposed technical solution relates to methods of automated text processing and can be used in the text corpus forming. The technical problem solved by the claimed invention is the creation of a method and/or a computer device and/or a system and/or a machine-readable data carrier that do not have the disadvantages of analogs and thus ensure accurate automated formation of a text corpus, which can subsequently be used for pre-training, or training, or fine tuning of classification models and/or clustering models



21: 2025/03614. 22: 2025/04/29. 43: 2025/11/14

51: G06F

71: KRAVCHENKO Artem Aleksandrovich

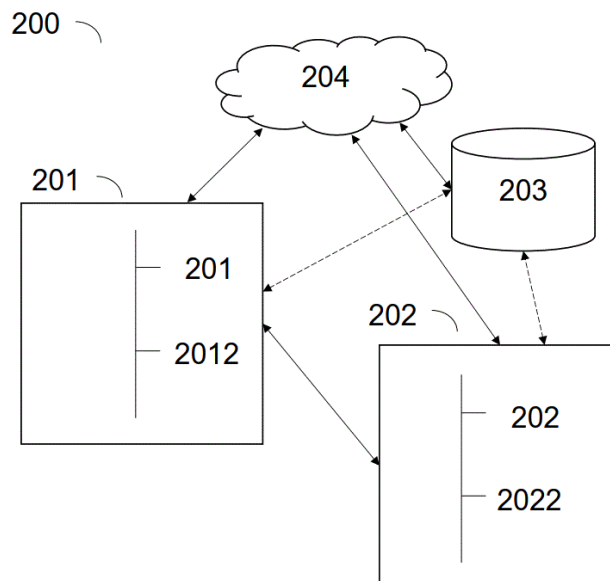
72: KRAVCHENKO Artem Aleksandrovich

33: RU 31: 2024127912 32: 2024-09-21

54: COMPUTER DEVICE FOR PRE-TRAINING, OR TRAINING, OR POST-TRAINING A CLUSTERING MODEL

00: -

The proposed technical solution relates to methods of automated text processing and can be used in the text corpus forming. The technical problem solved by the claimed invention is the creation of a method and/or a computer device and/or a system and/or a machine-readable data carrier that do not have the disadvantages of analogs and thus ensure accurate automated formation of a text corpus, which can subsequently be used for pre-training, or training, or fine tuning of classification models and/or clustering models



21: 2025/03615. 22: 2025/04/29. 43: 2025/11/14

51: G06F

71: KRAVCHENKO Artem Aleksandrovich

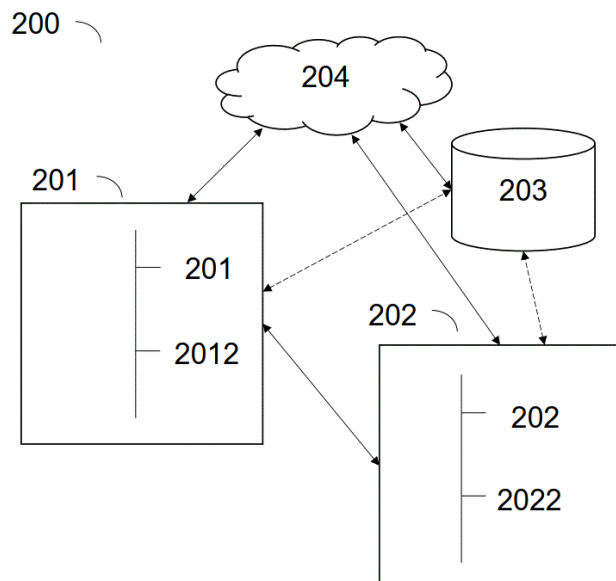
72: KRAVCHENKO Artem Aleksandrovich

33: RU 31: 2024127913 32: 2024-09-21

54: COMPUTER DEVICE FOR CLASSIFYING A TEXT ANALYSIS

00: -

The proposed technical solution relates to methods of automated text processing and can be used in the text corpus forming. The technical problem solved by the claimed invention is the creation of a method and/or a computer device and/or a system and/or a machine-readable data carrier that do not have the disadvantages of analogs and thus ensure accurate automated formation of a text corpus, which can subsequently be used for pre-training, or training, or fine tuning of classification models and/or clustering models



21: 2025/03616. 22: 2025/04/29. 43: 2025/11/14
51: G06F

71: KRAVCHENKO Artem Aleksandrovich

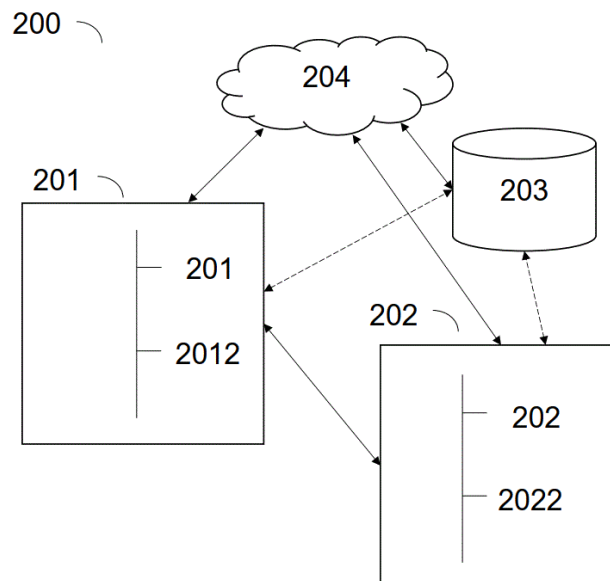
72: KRAVCHENKO Artem Aleksandrovich

33: RU 31: 2024127914 32: 2024-09-21

54: COMPUTER DEVICE FOR CLASSIFYING A TEXT ANALYSIS

00: -

The proposed technical solution relates to methods of automated text processing and can be used in the text corpus forming. The technical problem solved by the claimed invention is the creation of a method and/or a computer device and/or a system and/or a machine-readable data carrier that do not have the disadvantages of analogs and thus ensure accurate automated formation of a text corpus, which can subsequently be used for pre-training, or training, or fine tuning of classification models and/or clustering models



21: 2025/03617. 22: 2025/04/29. 43: 2025/11/14
51: G06F

71: KRAVCHENKO Artem Aleksandrovich

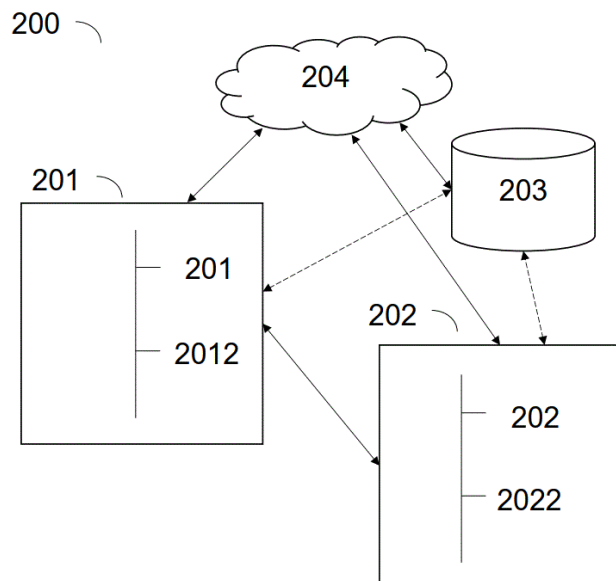
72: KRAVCHENKO Artem Aleksandrovich

33: RU 31: 2024127915 32: 2024-09-21

54: COMPUTER DEVICE FOR FORMING A DATABASE

00: -

The proposed technical solution relates to methods of automated text processing and can be used in the text corpus forming. The technical problem solved by the claimed invention is the creation of a method and/or a computer device and/or a system and/or a machine-readable data carrier that do not have the disadvantages of analogs and thus ensure accurate automated formation of a text corpus, which can subsequently be used for pre-training, or training, or fine tuning of classification models and/or clustering models



21: 2025/03618. 22: 2025/04/29. 43: 2025/11/14
51: G06F

71: KRAVCHENKO Artem Aleksandrovich

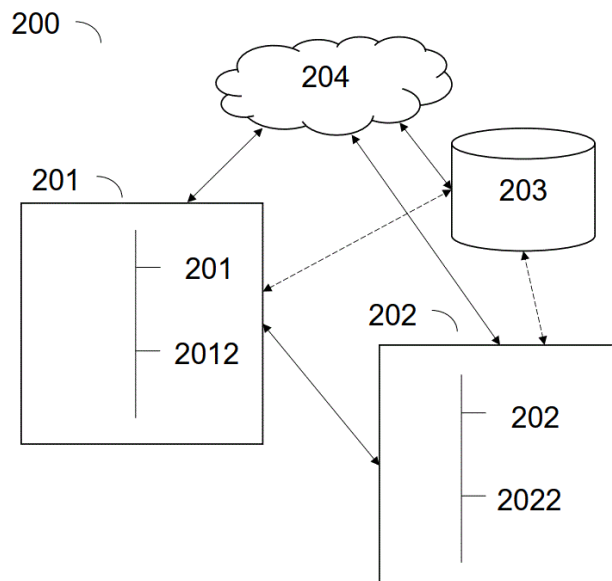
72: KRAVCHENKO Artem Aleksandrovich

33: RU 31: 2024127916 32: 2024-09-21

54: COMPUTER DEVICE FOR GENERATING A DATABASE QUERY

00: -

The proposed technical solution relates to methods of automated text processing and can be used in the text corpus forming. The technical problem solved by the claimed invention is the creation of a method and/or a computer device and/or a system and/or a machine-readable data carrier that do not have the disadvantages of analogs and thus ensure accurate automated formation of a text corpus, which can subsequently be used for pre-training, or training, or fine tuning of classification models and/or clustering models



21: 2025/03619. 22: 2025/04/29. 43: 2025/11/14
51: C22B

71: Qinghai Geological Survey Institute

72: LU Yongzhuo, ZHANG Xinli, WANG Ming,

WANG Taishan, HAN Jie, LI Jiqing, ZHANG

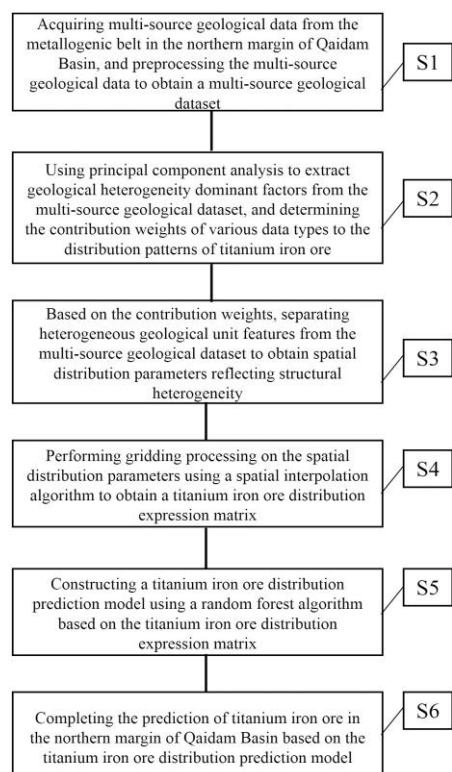
Xiaoyong, YU Fucheng

54: PREDICTION METHOD FOR TITANIUM IRON ORE IN THE NORTHERN MARGIN OF QAIDAM BASIN BASED ON GEOLOGICAL BIG DATA AND SYSTEM THEREOF

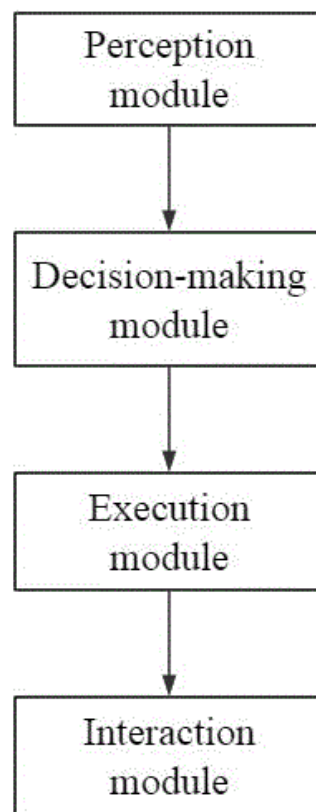
00: -

The present invention provides a prediction method and system for titanium iron ore in the northern margin of Qaidam Basin based on geological big data, including: acquiring multi-source geological data from the metallogenic belt in the northern margin of Qaidam Basin, preprocessing the multi-source geological data to obtain a multi-source geological dataset; extracting geological heterogeneity dominant factors from the multi-source geological dataset to determine the contribution weights of various data types to the distribution patterns of titanium iron ore; based on the contribution weights, separating heterogeneous geological unit features from the multi-source geological dataset to obtain spatial distribution parameters reflecting structural heterogeneity; performing gridding processing on the spatial distribution parameters using a spatial interpolation algorithm to obtain a titanium iron ore distribution expression matrix; constructing a titanium iron ore distribution prediction model using a random forest

algorithm based on the titanium iron ore distribution expression matrix; and completing the prediction of titanium iron ore in the northern margin of Qaidam Basin based on the titanium iron ore distribution prediction model. The invention achieves precise prediction of titanium iron ore distribution under complex geological conditions, providing a scientific basis for mineral exploration.



and voice capture modules, the system can identify objects targeted by users, capture corresponding images, and provide feature descriptions through voice output. This design meets users' spontaneous operational needs under various circumstances without interfering with normal vehicle operation.



21: 2025/03621. 22: 2025/04/29. 43: 2025/11/14
51: B60W

71: Leshan Normal University

72: ZHANG Jiuhua

54: AUTONOMOUS DRIVING ASSISTANCE SYSTEM AND METHOD FOR VEHICLES

00: -

The present invention discloses an autonomous driving assistance system and method for vehicles. The assistance system includes: a perception module configured to acquire data using sensors; a decision-making module configured to perform path planning based on the collected data; an execution module configured to execute vehicle control commands; and an interaction module configured to perform human-machine interaction according to the control commands. By incorporating video capture

21: 2025/03622. 22: 2025/04/29. 43: 2025/11/14
51: C12Q

71: HANSHAN NORMAL UNIVERSITY

72: ZHANG, Zhenxia, LIU, Yaqun, CHEN, Lianghui, LIANG, Hongxuan, YANG, Yu, FANG, Biting, ZHENG, Yuzhong

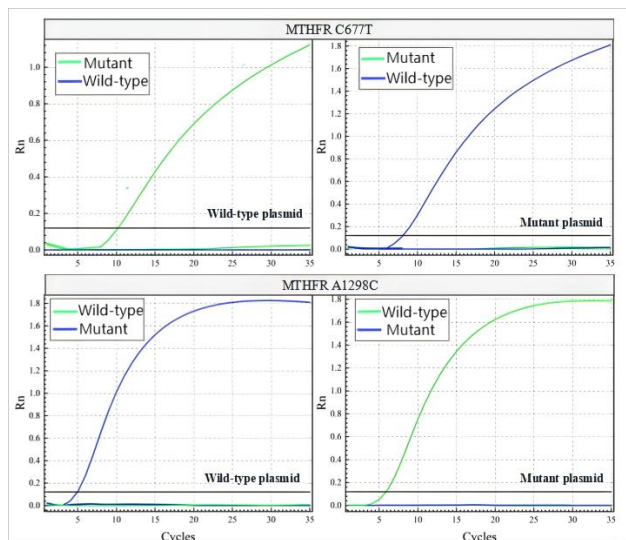
33: CN 31: 2025103390233 32: 2025-03-20

54: PRIMER SET FOR MTHFR GENE POLYMORPHISM DETECTION AND APPLICATION THEREOF

00: -

The present disclosure relates to the technical field of genetic engineering, and particularly relates to a primer set for MTHFR gene polymorphism detection and an application thereof. A primer set for MTHFR gene polymorphism detection comprises: primers and probes for the C677T SNP locus detection of

the MTHFR gene and primers and probes for the A1298C SNP locus detection of the MTHFR gene. The TaqMan-MGB method of the present disclosure shows high specificity, high sensitivity and excellent reproducibility in detecting polymorphisms at the C677T and A1298C loci of the MTHFR gene, and is suitable for the rapid detection of large-scale samples in clinics. The method provides an effective molecular diagnostic tool for the early diagnosis and prevention of folic acid-related diseases.



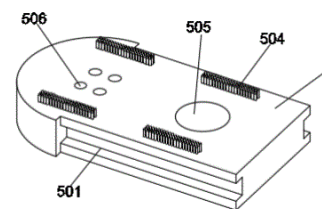
21: 2025/03623. 22: 2025/04/29. 43: 2025/11/14
51: A61M
71: THE AFFILIATED TAIZHOU PEOPLE'S HOSPITAL OF NANJING MEDICAL UNIVERSITY
72: LI, Jiangying, CHEN, Lu, WANG, Qiuchen, HUANG, Li, ZHU, Jian

54: DISPOSABLE FLUSHING -SUCTION ORAL CARE SPUTUM SUCTION TUBE

00: -

The present disclosure discloses a disposable flushing-suction oral care sputum suction tube, including a tube head and a tube handle, where a connecting seat is fixedly disposed at a right end of the tube head, a U-shaped groove is formed in a left end of the tube handle, and the U-shaped groove is hingedly matched with the connecting seat through a hinge shaft; and a tube body connected to the tube head is disposed inside the tube handle, the tube body is fixedly connected to the tube head, the tube body is slideably matched with the tube handle, a hollow groove is formed in the tube handle, a slider is slideably disposed inside the hollow groove, and the slider is fixedly connected to the tube body. A

stand column matched with the tube body is disposed inside the U-shaped groove of the tube handle.



21: 2025/03625. 22: 2025/04/29. 43: 2025/11/14
51: A23L

71: SU, Xuancang

72: SU, Xuancang

54: PREPARATION METHOD OF SPICED WALNUT KERNELS AND PRODUCT THEREOF

00: -

Disclosed is a preparation method of spiced walnut kernels. The preparation method has low processing costs, improves nutritional value of a product, and effectively delays generation time of a rancid flavor. The prepared spiced walnut kernels have good taste and mouthfeel and rich nutrition, and they are nourishing and healthy, convenient to carry, and ready to eat.

21: 2025/03626. 22: 2025/04/29. 43: 2025/11/14
51: D06M

71: Tianjin Shenwei Flexible Protective Materials Technology Co., Ltd.

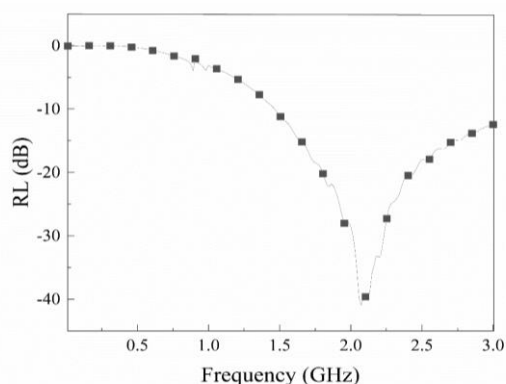
72: LIU Yuanjun, LI Aoxue, ZHAO Xiaoming

54: SOAKING AND ROLLING PREPARATION PROCESS FOR MXENE-BASED GEOTEXTILE WAVE-ABSORBING MATERIAL FOR ELECTROMAGNETIC RADIATION PROTECTION

00: -

The present invention discloses a soaking and rolling preparation process for an MXene-based geotextile wave-absorbing material, involving textile material technology and suitable for applications in various fields, including construction. The preparation method comprises the following steps: soaking the geotextile in an alkaline solution at 50 to 70 Celsius degree for a certain period, then adding sodium dodecyl sulfate (JFC), and performing a five-dip-four-roll treatment on a rolling machine, controlling the rolling retention rate to 60 to 80 percent, followed by washing with water; adding an

appropriate amount of tris(hydroxymethyl)aminomethane to a 50 percent ethanol solution to adjust the pH value to 8 to 9, then adding an appropriate amount of dopamine hydrochloride; immersing the alkali-treated geotextile into the above solution, performing a four-dip-three-roll treatment, controlling the rolling retention rate to 60 to 80 percent, and then allowing it to stand for 15 h; dissolving a certain amount of lithium fluoride (LiF) in 15 g of concentrated hydrochloric acid in water at 0 Celsius degree, then adding a certain amount of Ti_3AlC_2 and stirring at 40 Celsius degree for 20 h. After stirring, performing centrifugal treatment at 3000 rpm for 1 h, followed by ultrasonic treatment for 1 h, and then centrifugal treatment at 3000 rpm for 30 min. Finally, collecting the supernatant to obtain a Ti_3C_2Tx colloidal solution, which is freeze-dried to obtain Ti_3C_2Tx powder for later use; adding a certain amount of the obtained Ti_3C_2Tx powder to 30 g of water and stirring evenly, then performing ultrasonic treatment in water at 0 Celsius degree for 3 h to prepare a Ti_3C_2Tx colloidal solution; immersing the treated geotextile into the Ti_3C_2Tx colloidal solution, performing a soaking and rolling treatment while stirring, and conducting a four-dip-three-roll treatment on a rolling machine. After treatment, placing the geotextile in a vacuum drying oven to dry for 2 h. The present invention prepares a novel MXene-based geotextile wave-absorbing material, which is thin, lightweight, and flexible, suitable for applications in various fields, such as replacing hard and heavy cement-based wave-absorbing composites in construction.



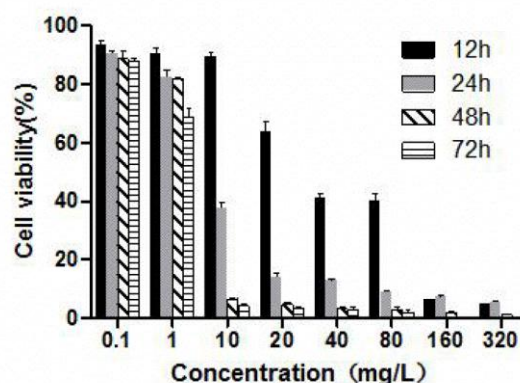
21: 2025/03627. 22: 2025/04/29. 43: 2025/11/14
51: A61K

71: The First Affiliated Hospital of Wenzhou Medical University, Baotou Medical College, Inner Mongolia University of Science and Technology
72: ZHENG Kewen, MA Qiang, SU Yan, JU Hongge, HAN Xiaomin, WANG Xingyu

54: INTRAVESICAL INSTILLSTION CHEMOTHERAPY DRUG AND APPLICATION FOR BLADDER CANCER

00: -

The present invention discloses an intravesical instillation chemotherapy drug and its application for bladder cancer, relating to the pharmaceutical field. The composition includes arsenic trioxide or its water-soluble products, namely arsenious acid or arsenite ion. The water-soluble product of arsenic trioxide, arsenious acid, refers to H_3AsO_3 . The arsenite ion refers to those containing AsO_3^{3-} . This invention demonstrates significant proliferation inhibition effects on bladder cancer with observable dose-dependent effects, showing remarkable efficacy at low cost.



21: 2025/03628. 22: 2025/04/29. 43: 2025/11/14
51: G06F

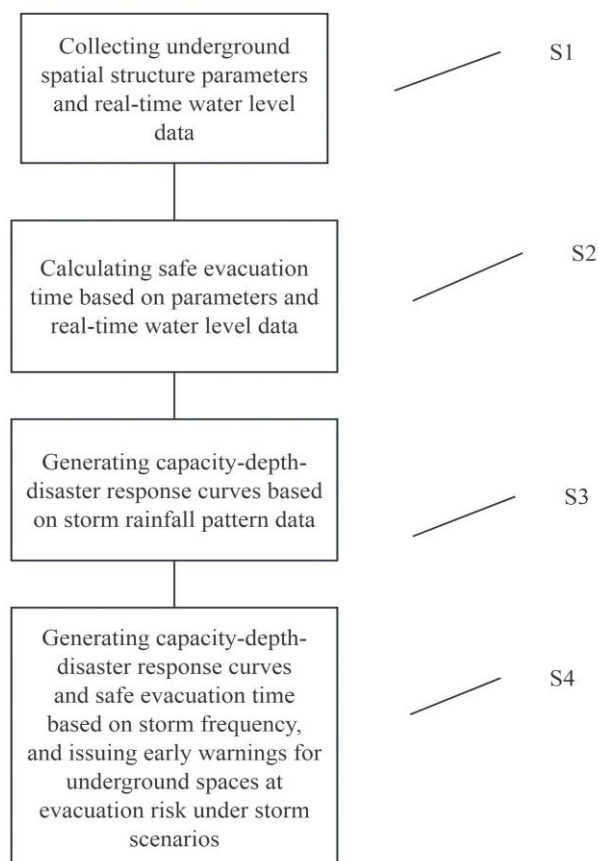
71: Ministry of Water Resources, Ministry of Transport, National Energy Bureau, nanjing hydraulic research institute
72: WANG Yan, LIU Peng, LIN Jin, LIU Hongwei, MA Tao

54: UNDERGROUND SPACE EVACUATION WARNING METHOD AND SYSTEM

00: -

The present invention discloses an underground space evacuation warning method and system, where the steps include: collecting underground spatial structure parameters and real-time water level data; calculating safe evacuation time based on the parameters and real-time water level data;

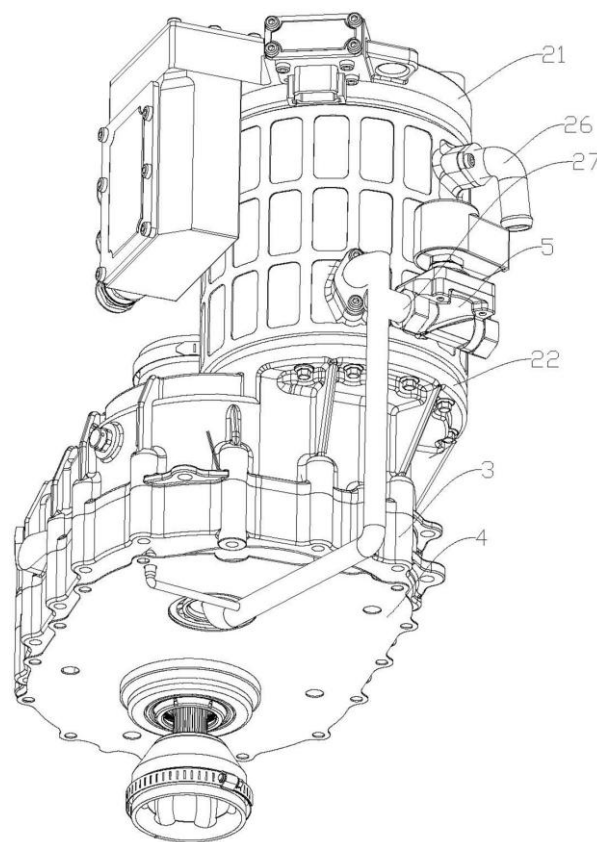
generating capacity-depth-disaster response curves based on storm rainfall pattern data; and generating capacity-depth-disaster response curves and safe evacuation time based on storm frequency and issuing early warnings for underground spaces at evacuation risk under storm scenarios. The invention comprehensively considers structural characteristics of underground spaces and dynamic water level variations, making the warnings more scientific and precise; meanwhile, it refines the calculation of safe evacuation time to cover the entire process from awareness formation to completed evacuation, providing more accurate temporal assessment for personnel escape. The invention also achieves visualized warning of evacuation risks under storm scenarios through constructing capacity-depth-disaster response curves.



54: ELECTRIC DRIVE ASSEMBLY CAPABLE OF EFFICIENTLY REGULATING TEMPERATURE

00: -

The present application relates to an electric drive assembly capable of efficiently regulating a temperature, including a drive motor, wherein an outside of the drive motor is covered by a first heat exchange assembly having a water channel cavity, the end of the rotating shaft of the drive motor is in transmission connection with a transmission mechanism, the surface of one side of the transmission mechanism is provided with a second heat exchange assembly for accommodating a liquid, at least one drive gear inside the transmission mechanism is provided thereinside with a liquid flow channel, the liquid flow channel communicates with the water outlet of the first heat exchange assembly, and the end of the water outlet of the first heat exchange assembly is connected with a valve body mechanism capable of controlling the blocking and unblocking of the water channel.



21: 2025/03630. 22: 2025/04/29. 43: 2025/11/14
 51: B60K; H02K
 71: JINHUA UNIVERSITY OF VOCATIONAL TECHNOLOGY
 72: YANG, Hangxu, LIU, Dongmei, FANG, Yimao

21: 2025/03634. 22: 2025/04/29. 43: 2025/11/14
 51: G06K
 71: Anhui Vocational and Technical College

72: WU Fengfang, HAO Wenjie, LIU Jun, WU Jue

54: A REAL-TIME MODEL GAIT TRACKING SIMULATION METHOD BASED ON A SOMATOSENSORY CAPTURE DEVICE

00: -

The present invention discloses a real-time model gait tracking simulation method based on a somatosensory capture device, comprising the following steps: Step 1: Acquiring physical spatial state data of a T-shaped runway, and generating physical state characteristics of the T-shaped runway based on said physical spatial state data; Step 2: Analyzing a platform area where a model is located based on the physical state characteristics and dynamic model walking characteristics, and estimating a ground area above the platform area through which the model walks; Step 3: Acquiring dynamic model walking data of the ground area based on spatial features of the ground area. The present invention comprehensive and accurate navigation guidance for the trajectory and direction of a model's gait phase, improves the guidance and adjustment effectiveness of walking rhythm, and ensures the stability of gait and safety during movement.

Step 1, acquiring physical spatial state data of a T-shaped runway, and generating physical state characteristics of the T-shaped runway based on said physical spatial state data; analyzing a platform area where a model is located based on the physical state characteristics and dynamic model walking characteristics, and estimating a ground area above the platform area through which the model walks; acquiring dynamic model walking data of the ground area based on spatial features of the ground area.

Step 2, analyzing the dynamic model walking data to generate a gait phase evolution model for the ground area; predicting occurrence characteristics of abnormal walking events of the model in the ground area based on the gait phase evolution model; Determining gait deviation evaluation results for all sub-areas in the ground area based on the occurrence characteristics of abnormal walking events.

Step 3, Estimating extreme conditions for lower limb strides of the model in each sub-area based on the gait deviation evaluation results and human skeleton information of the model; Determining dynamic footprint projection scheme information for the platform area based on the extreme conditions for lower limb strides of the model.

21: 2025/03635. 22: 2025/04/29. 43: 2025/11/14

51: G06F

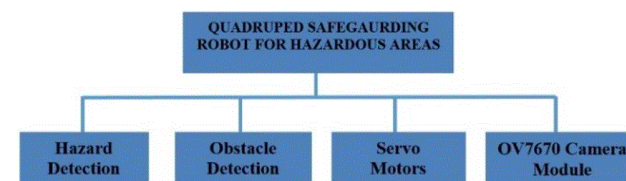
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: CHOLKE, Puja Chavan, GHODAKE, Kanishka, GHUGE, Dnyaneshwari, GODASE, Vaishnavi, HALBE, Soham

54: A QUADRUPED SAFEGUARDING ROBOT DESIGNED FOR HAZARDOUS ENVIRONMENTS

00: -

The present invention relates to a quadruped safeguarding robot designed for hazardous environments. Equipped with advanced sensors, it detects smoke, obstacles, fires, and gas leaks. In case of smoke or fire, it relocates to safety, alerts nearby individuals with flashing lights and a buzzer, and notifies the owner via text. The robot navigates intelligently, avoiding obstacles to ensure smooth movement. Its construction integrates an Arduino Nano, servo motors, an MQ-135 gas sensor, an OV7670 camera module, and a Li-ion battery, ensuring efficient operation. The design is optimized using SolidWorks and Fusion 360, and its fabrication ensures structural integrity and real-time hazard response. This innovative robot enhances safety and security in high-risk areas, offering a reliable and proactive solution for industrial and hazardous environments.



21: 2025/03636. 22: 2025/04/29. 43: 2025/11/14

51: A47L

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

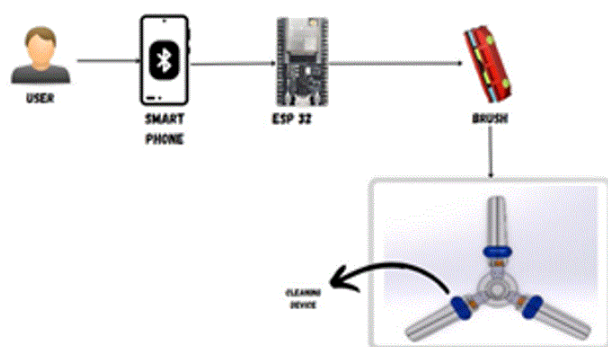
72: CHOLKE, Puja Chavan, PATIL, Gaurang, PATIL, Pranav, PATKAR, Varad, PEHERE, Kunal

54: AN AUTOMATED CEILING FAN CLEANING SYSTEM

00: -

The present invention relates to an automated ceiling fan cleaning system. The proposed system enables remote operation via the Blynk mobile app, using Wi-Fi connectivity for seamless control. The ESP32 microcontroller processes user commands to control a motorized brush assembly that moves along the fan blade, effectively removing dust. The

system features a linear motion mechanism powered by a DC motor, ensuring smooth and precise back-and-forth movement. The motor driver regulates speed and direction, while a sponge-based brush ensures efficient cleaning. The control program, developed using the Arduino IDE, interprets user commands for optimal operation. The system completes a full cleaning cycle in just 8 seconds with a speed of 2.6 cm/s. With real-time feedback and intuitive app-based control, this system enhances cleaning efficiency, reduces manual effort, and provides a user-friendly solution for maintaining ceiling fans.



21: 2025/03637. 22: 2025/04/29. 43: 2025/11/14

51: C12N

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

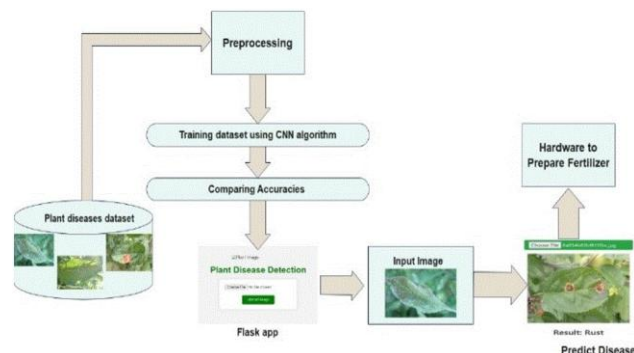
72: LAHORE, Om Sanjay, BACHHAV, Prasad, NAVANI, Atharva, ALKUNTE, Ritesh, MEHTA, Pradnya S., GAIKWAD, Vidya S., PATIL, Amol V., BANCHHOR, Chitrakant

54: A PLANT DISEASE DETECTION AND AUTOMATED FERTILIZER PREPARATION SYSTEM

00: -

The present invention relates to a plant disease detection and automated fertilizer preparation system. The proposed system integrates machine learning with hardware-based fertilizer preparation. The system employs five deep learning classifiers—CNN, VGG16, VGG19, MobileNetV2, and InceptionV3—implemented using TensorFlow Keras. A diverse dataset of healthy and diseased plant images is curated and preprocessed for model training. Hyperparameter tuning and k-fold cross-validation optimize model performance, with InceptionV3 selected for the web-based application due to its superior accuracy. For hardware

integration, NodeMCU controls a system comprising two chemical storage containers, valves, a battery, and relay modules to automate fertilizer preparation based on detected plant diseases. The hardware is programmed for real-time monitoring and adaptive responses. The system ensures precise chemical mixing through structured methodologies, including rigorous testing and calibration. By combining deep learning with IoT-enabled automation, this invention enhances early disease detection and optimizes fertilizer application, improving agricultural productivity and plant health.



21: 2025/03638. 22: 2025/04/29. 43: 2025/11/14

51: G06F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

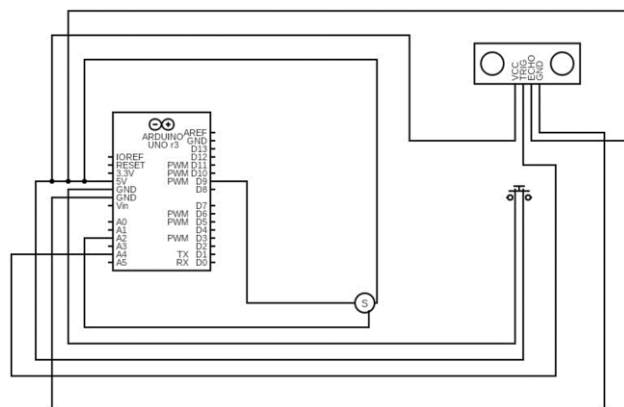
72: CHOLKE, Puja Chavan, KHARE, Adarsh, DEBRE, Atharva, DESHMANE, Shrinidhi, DESHMUKH, Atharva

54: AN AUTOMATIC RATION DISTRIBUTION SYSTEM

00: -

The present invention relates to an automatic ration distribution system. The Automatic Ration Distribution System (ARDS) integrates Arduino-based servo control and face recognition technology to enhance ration distribution efficiency, accuracy, and transparency. OpenCV is employed for facial detection using Haarcascades, triggering an Arduino Uno microcontroller via serial communication upon successful recognition. The Arduino then controls a servo motor, ensuring precise ration dispensing. Additionally, an ultrasonic sensor monitors container fill levels to prevent waste. By leveraging widely accessible hardware and open-source software, ARDS provides a cost-effective, automated solution that reduces human intervention and mitigates corruption in India's Public Distribution System.

(PDS). The system maintains detailed beneficiary records, ensuring fair distribution and government oversight. With its scalability and adaptability, ARDS lays the groundwork for future advancements in public service automation, demonstrating the potential of computer vision and embedded systems in governance and social welfare.



21: 2025/03639. 22: 2025/04/29. 43: 2025/11/14
51: G06V

71: INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES, INSTITUTE OF QUALITY SAFETY AND TESTING FOR AGRICULTURAL & ANIMAL HUSBANDRY OF INNER MONGOLIA (CENTER OF SCIENCE AND TECHNOLOGY, TRANSFER AND TRANSFORMATION FOR AGRICULTURAL AND ANIMAL HUSBANDRY OF INNER MONGOLIA)

72: BAO, Junwei, WULAN, Tuya, WANG, Baolin, LIU, Wen, WU, Shengnan, YANG, Chao, DU, Erxiao, ZHAO, Xiaoyu, JI, Shiyu, GUO, Jia, LIU, Yangyang, YU, Weizhuo, CHE, Youwei

54: UNMANNED AERIAL VEHICLE-BASED HYPERSPECTRAL CROP CLASSIFICATION METHOD

00: -

The present invention discloses an unmanned aerial vehicle-based hyperspectral crop classification method, and relates to the technical field of crop classification. The unmanned aerial vehicle-based hyperspectral crop classification method includes: after an unmanned aerial vehicle is subjected to route planning and reaches a designated position, acquiring a hyperspectral image of a crop by using a hyperspectral camera; preprocessing the acquired hyperspectral image to obtain a preprocessed hyperspectral image; performing spectral feature extraction on the preprocessed hyperspectral image based on a preset attention mechanism to obtain a

crop feature map; performing difference filtering on the obtained crop feature map by using a residual mapping network to obtain a crop identification feature set; constructing a crop classification model based on the crop identification feature set; and obtaining crop classification based on the constructed crop classification model. The present invention improves the precision of crop classification.

S1: After an unmanned aerial vehicle is subjected to route planning and reaches a designated position, acquire a hyperspectral image of a crop by using a hyperspectral camera

S2: Preprocess the acquired hyperspectral image to obtain a preprocessed hyperspectral image

S3: Perform spectral feature extraction on the preprocessed hyperspectral image based on a preset attention mechanism to obtain a crop feature map

S4: Perform difference filtering on the obtained crop feature map by using a residual mapping network to obtain a crop identification feature set

S5: Construct a crop classification model based on the crop identification feature set

S6: Obtain crop classification based on the constructed crop classification model

21: 2025/03689. 22: 2025/04/30. 43: 2025/11/17
51: G06Q

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: CHOLKE, Puja Chavan, PATIL, Koushal, PATIL, Manasi, PATHAK, Arya, PHULE, Divya

54: A CRYPTOCURRENCY MINING FARM MONITORING SYSTEM

00: -

The present invention relates to a cryptocurrency mining farm monitoring system. Further, the present invention discloses a cryptocurrency mining farm monitoring system designed for real-time performance tracking and anomaly detection. Utilizing ESP32 microcontrollers, the system

integrates mining hardware with a monitoring module equipped with environmental sensors to assess temperature, power consumption, and miner health. Data is stored in InfluxDB, a cloud-hosted time-series database, ensuring scalability and efficient analytics. The system leverages Grafana for visualization, providing operators with actionable insights into mining efficiency. The mining process follows the Proof of Work (PoW) consensus, utilizing ESP32-driven Duino-Coin algorithms for secure validation. The monitoring framework incorporates sensors like BMP180, SI1145, and DHT11 for environmental assessments. The architecture supports automated alerts and optimizations, ensuring reliable mining operations. This integrated system enhances resource management, minimizes downtime, and maximizes profitability in cryptocurrency mining farms.

```
last_block_hash, expected_hash, difficulty = receive_job
temporary_hash = sha1.init(last_block_hash)
for nonce = 0 to difficulty * 100:
    current_hash = temporary_hash.update(nonce)
    if current_hash equals expected_hash:
        // Resulting nonce gets found
        send_result
```

21: 2025/03690. 22: 2025/04/30. 43: 2025/11/17
51: G06Q

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

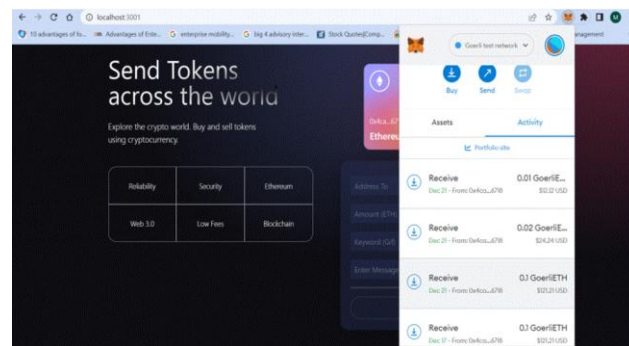
72: KUNEKAR, Pankaj, KSHIRSAGAR, Malhar, KUMAWAT, Chanchal, LANDE, Vaishnavi, LOKHANDE, Sushant, MANDHANA, Ram

54: A DECENTRALIZED TRANSACTION MANAGEMENT SYSTEM FOR SECURE ETHEREUM-BASED TRANSACTIONS

00: -

The present invention relates to a decentralized transaction management system for secure ethereum-based transactions. It addresses limitations in existing blockchain systems by providing a user-friendly decentralized application (DApp) for seamless Ethereum transactions, transaction visualization via GIFs, and MetaMask integration for wallet connectivity. The system features a React-based frontend styled with Tailwind CSS, a Solidity smart contract deployed using Hardhat, and Web3-based blockchain connectivity via Ethers.js. Transactions are processed on the Goerli test network, allowing real-time verification through Etherscan. A unique transaction

visualization feature maps transaction details to GIFs based on keywords, enhancing user engagement. Leveraging Ethereum blockchain technology, the invention ensures secure, transparent, and immutable transaction records, making it an innovative solution for decentralized finance and blockchain-based applications.



21: 2025/03691. 22: 2025/04/30. 43: 2025/11/17
51: G06Q

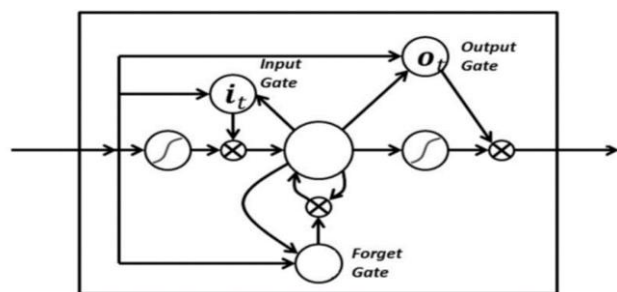
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: KUNEKAR, Pankaj, JADHAV, Kunal, KIRAR, Aditya Pratap Singh, BHAGWAT, Amrut, SINGH, Ankit

54: A TRANSPORT VEHICLE DEMAND PREDICTION SYSTEM USING CONTEXT AWARE NEURAL NETWORKS

00: -

The present invention relates to a transport vehicle demand prediction system using context aware neural networks. The system employs taxi data from New York City, focusing on four Brooklyn taxi zones, and integrates event data from the Barclays Center to enhance demand forecasting. Event information is extracted using web scraping techniques and incorporated into a time-series dataset. The system utilizes Multilayer Perceptrons (MLP) and Long Short-Term Memory (LSTM) networks, with LSTMs proving highly effective for sequence prediction. Model performance is evaluated using Mean Absolute Error (MAE) and Root Mean Squared Error (RMSE). The system successfully predicts taxi demand fluctuations, demonstrating the potential of contextual learning in transportation analytics. Future applications include traffic analysis and social media-based demand prediction, though scalability depends on the availability of comprehensive transport datasets.



21: 2025/03692. 22: 2025/04/30. 43: 2025/11/17

51: H04L

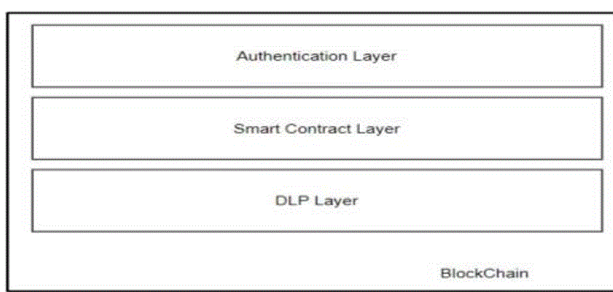
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: KUNEKAR, Pankaj, JAISINGHANI, Amit, DESHMUKH, Jayesh, NIMBALKAR, Aditya, JADHAV, Madhuri

54: A BLOCKCHAIN-BASED MESSAGING SYSTEM

00: -

The present invention relates to a blockchain-based messaging system. The proposed system leverages blockchain innovation to enhance message security and integrity. It incorporates a message verification model, end-to-end encryption, and cryptographic hashing for data validation. The smart contract framework automates transactions, reducing reliance on third parties and ensuring data immutability. A smart construct and data loss prevention model mitigate risks by preserving company policies while preventing unauthorized information modification. Hashing and timestamping mechanisms establish trust in digital communication, ensuring unalterable records. The encryption model enhances security by safeguarding official communications from third-party interference. Authentication is handled via MetaMask, connecting to Ethereum for verification. The smart contract layer eliminates intermediaries, maintaining transaction integrity. This blockchain-powered application ensures secure, reliable, and efficient enterprise communication, protecting sensitive messages while allowing authorized senior management access in case of critical incidents.



21: 2025/03693. 22: 2025/04/30. 43: 2025/11/17

51: H04L

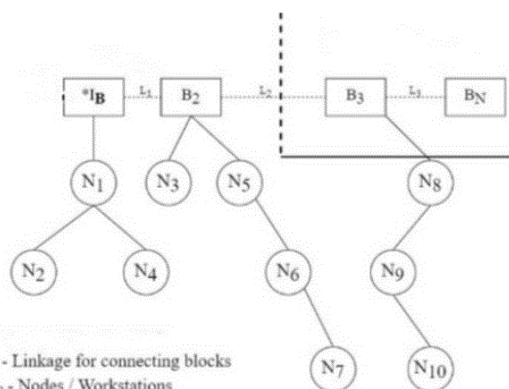
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: KUNEKAR, Pankaj, MULAY, Shubham, NAVALE, Dnyaneshwari, TALNIKAR, Vishwam, NAWALE, Akhilesh, SONKUSALE, Vishal

54: A BLOCKCHAIN-BASED NETWORK OPTIMIZATION SYSTEM FOR WORKSTATION NODES

00: -

The present invention relates to a blockchain-based network optimization system for workstation nodes, utilizing decentralized architecture and cryptographic security. The system consists of interconnected blocks secured via SHA-256 hash functions, ensuring tamper-proof data integrity. Each block stores a previous hash, timestamp, and nonce for validation and tracking. The network is modeled as a graph, where nodes represent devices linked with cost values. Dijkstra's, Prim's, and Kruskal's algorithms are employed for optimal path computation and minimum spanning trees. The proposed system integrates Java-based object-oriented programming, leveraging modified Dijkstra, Kruskal, and BFS algorithms with heap data structures. UTF-8 encoding and SHA-256 hashing ensure secure blockchain integration. The system enhances network efficiency, reduces server load, and provides a peer-to-peer backup solution, making it a robust approach for decentralized network optimization.



21: 2025/03694. 22: 2025/04/30. 43: 2025/11/17
 51: G06F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

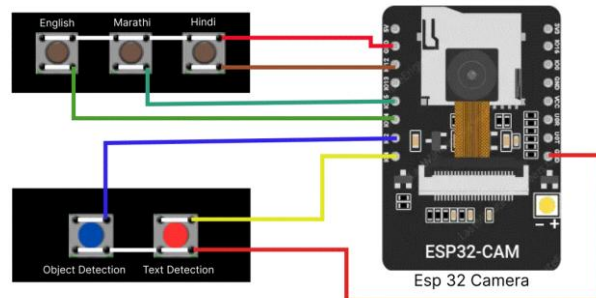
72: ANTAD, Sonali M, GAIKWAD, Namrata Rajendra, SAKLANI, Daksh, KURAPATI, Aditya Shrinivas, DABADE, Ronak Ramchandra

54: A WEARABLE ASSISTIVE DEVICE FOR VISUALLY IMPAIRED INDIVIDUALS

00: -

The present invention relates to a wearable assistive device for visually impaired individuals. The proposed system is an innovative wearable device designed to enhance mobility and accessibility. Featuring an ESP32-CAM module for real-time image capture, the glasses offer text recognition and object detection modes, delivering audio feedback to users. Tactile buttons enable mode switching and language selection, while an ergonomic design ensures comfort. A custom PCB integrates all components, powered by a 5V battery. Complemented by a web interface for remote support, this invention empowers visually impaired users with greater independence and safety, combining cutting-edge technology with user-centric design.

Push Buttons For Language Selection



Push Buttons For Mode Selection

21: 2025/03695. 22: 2025/04/30. 43: 2025/11/17
 51: G06N

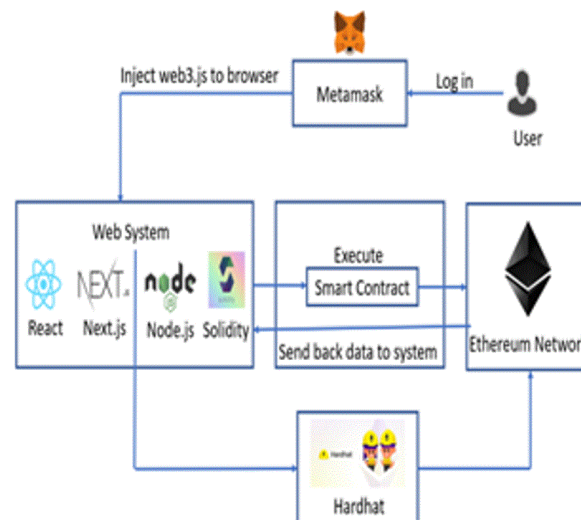
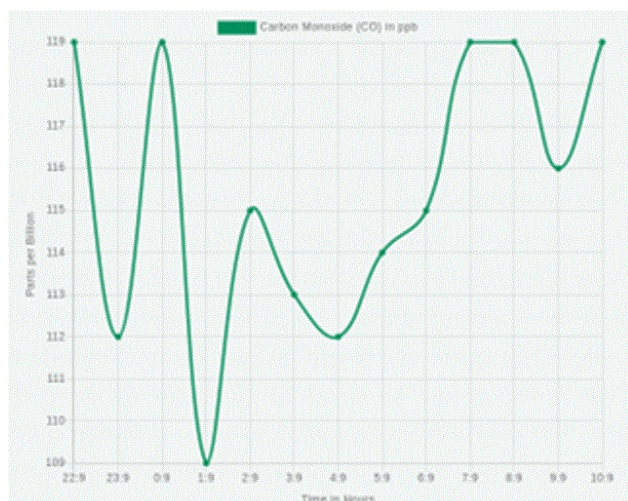
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: KUNekar, Pankaj

54: AN INTEGRATED REAL-TIME AIR QUALITY MONITORING AND PREDICTION SYSTEM USING MACHINE LEARNING

00: -

The present invention relates to an integrated real-time air quality monitoring and prediction system using a network of IoT-based air quality sensors and machine learning. The proposed system integrates a network of IoT-based air quality sensors with machine learning algorithms to assess and forecast pollution levels. The system collects real-time air quality data, processes it through cloud-based analytics, and applies predictive models to estimate future air pollution trends. A user-friendly web and mobile interface provide real-time AQI updates, interactive visualizations, and alerts. The system is scalable, cost-effective, and capable of integration with smart home automation, making it a valuable tool for environmental monitoring and public health safety.



21: 2025/03696. 22: 2025/04/30. 43: 2025/11/17

51: G06F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: KUNEKAR, Pankaj, BARU, Harshal, KASHID, Abhishek, KSHIRSAGAR, Prasanna, KULKARNI, Aniket, LONDHE, Prathamesh

54: AN ETHEREUM BASED DONATION SYSTEM

00: -

The present invention relates to an Ethereum-based donation system that enhances transparency and security in crowdfunding. The system allows users to create and manage fundraising campaigns, setting targets, minimum contributions, and deadlines. Donors can contribute via blockchain, ensuring immutable transaction records. Users must connect through Metamask for authentication and transactions. Contributions are stored securely using Ethereum's blockchain, and once a campaign reaches its deadline, further donations are restricted. Fund withdrawals require approval via a smart contract-based request system. The system employs ReactJS and NextJS for the frontend, NodeJS for the backend, and Solidity for smart contract implementation. Hardhat is used for testing and deploying contracts. By leveraging blockchain, the system eliminates intermediaries, ensuring trust, security, and automation in the donation process through smart contracts and decentralized ledger technology.

21: 2025/03952. 22: 2025/05/09. 43: 2025/11/12

51: G06F; G06Q

71: DR Q BOTHA INC

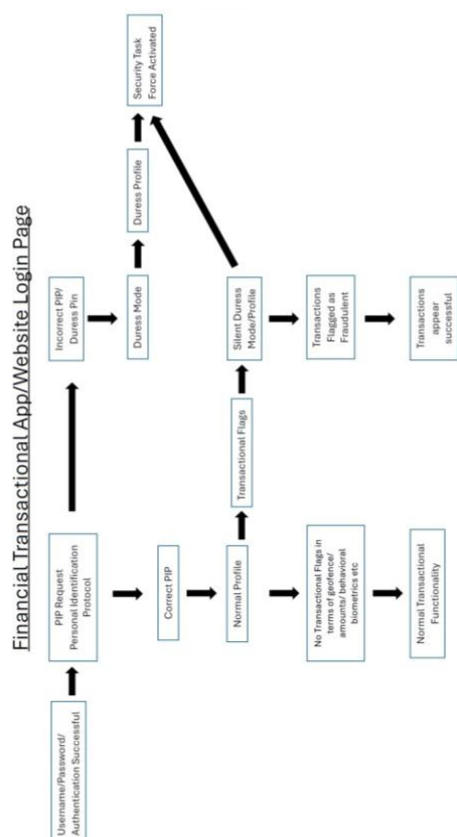
72: Quentin Martin BOTHA

33: ZA 31: 2024/07352 32: 2024-09-27

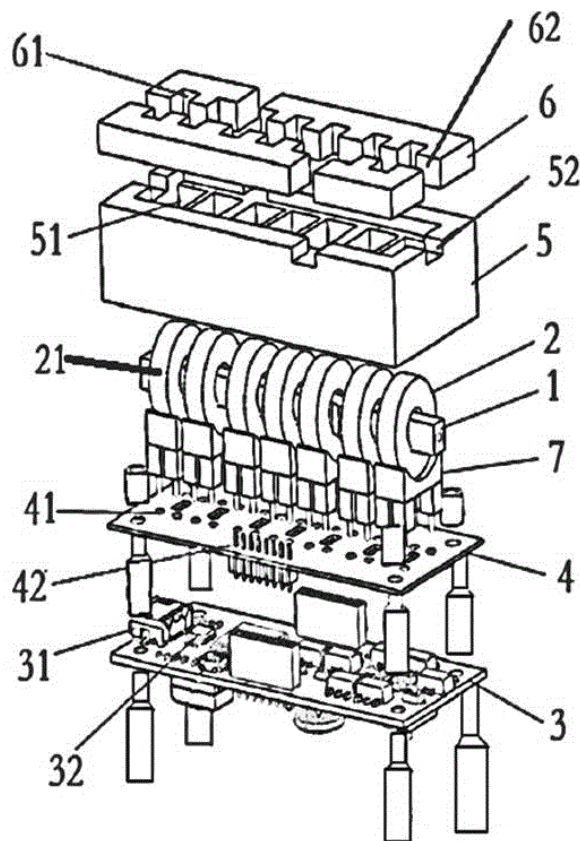
54: SECURITY ARRANGEMENT FOR FINANCIAL TECHNOLOGY PLATFORMS

00: -

The invention discloses a security arrangement for a financial transactional platform including a 3rd step in authentication for an online electronic fund transferring platform or in app authentication for transactions on mobile devices or web-based platforms, and adapted to be utilised by a client and/or user, which includes at least one of the following means to activate and/or trigger duress mode during the login process; while logged in to the FTP under normal conditions; on a third-party mobile phone/device; and/or duress mode can be triggered on the client's/user's device while transacting at an ATM, POS or payment gateway.



the coil array, and is used for controlling an electric current of the coil array. In the present disclosure, by means of controlling the annular magnetic coils, after being powered on, the small annular magnetic coils can generate a uniform electric field or a gradient electric field without needing to be subjected to mechanical displacement or rotation, and then magnetic beads are controlled to move in the micro-pipe, thereby realizing reactions and washing.



21: 2025/06908. 22: 2025/08/19. 43: 2025/10/23
51: B03C; H01F
71: BEIJING SAVANT BIOTECHNOLOGY CO., LTD., TIANJIN SAVANT BIOTECHNOLOGY CO., LTD.

72: Xian HUANG, Zhen YANG, Chenguang HU, Kang DU, Xinquan LIU, Si LIN

33: CN 31: 202310601210.5 32: 2023-05-26

54: INTEGRATED MAGNETIC SEPARATION APPARATUS

00: -

The present disclosure relates to an integrated magnetic separation apparatus. The integrated magnetic separation apparatus includes: a micro-pipe, which is a horizontally arranged linear hollow pipe, and includes a first liquid inlet, a second liquid inlet, a first liquid outlet and a second liquid outlet, the first liquid inlet and the first liquid outlet being respectively arranged at two ends of the micro-pipe; a coil array, which includes several annular magnetic coils arranged in parallel, the micro-pipe penetrating internal cavities of the annular magnetic coils, and the annular magnetic coils being arranged at intervals on the outer side of the micro-pipe; and a drive circuit board, which is electrically connected to

21: 2025/07604. 22: 2025/09/09. 43: 2025/09/18
51: G01D; G01M

71: HANGZHOU HANGYANG EXPANDER CO., LTD.

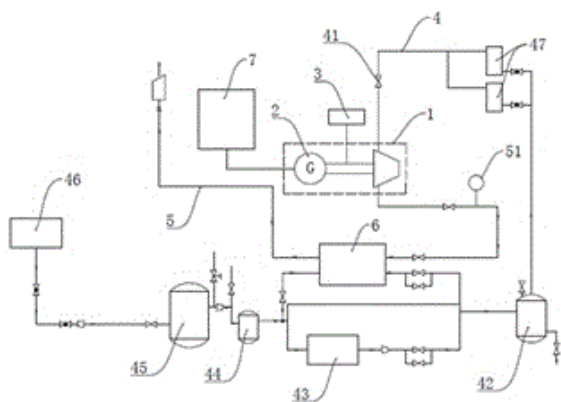
72: KEPING CHEN, CHONGYUAN SUN, JUNHUI PAN, LIQUN WU, SHIQI DU, DONGLIANG FU, HONGYUAN XIAO, YUAN FANG, YANQING GAO
33: CN 31: 202411262206.1 32: 2024-09-10

54: ELECTRO-PNEUMATIC EXPANDER TESTING APPARATUS AND TESTING METHOD

00: -

The present application relates to an electro-pneumatic expander testing apparatus and testing method, and relates to the technical field of

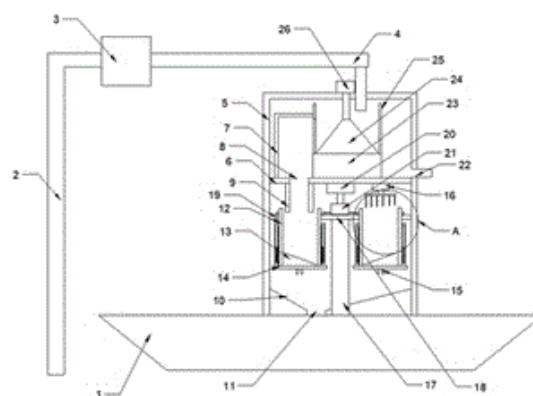
expander test equipment. The apparatus includes an expander test bench, a drive motor, a gas supply pipeline, and an exhaust pipeline, wherein the expander test bench is configured to mount an expander to be tested; the drive motor is disposed on one side of the expander test bench, and the drive motor is connected to a rotating shaft of an impeller inside the expander; the gas supply pipeline (4) has sequentially provided therein an air compressor, a gas storage tank, a heater, and a regulating valve; the air compressor is in communication with an inlet of the gas storage tank; an outlet of the gas storage tank is in communication with an inlet of the heater; an outlet of the heater is in communication with an inlet of the regulating valve; an outlet of the regulating valve is in communication with an inlet of the expander; the exhaust pipeline is in communication with an exhaust port of the expander; and a temperature sensor is disposed in the exhaust pipeline. The present application has the effects of achieving mechanical characteristics testing of a large-scale expander under a normal operating condition, and improving characteristic test efficiency and test accuracy.



21: 2025/07679. 22: 2025/09/10. 43: 2025/09/16
51: E02F
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: WEI LV
33: CN 31: 2024116770823 32: 2024-11-22
54: SLUDGE CLEANING DEVICE FOR PORT CHANNEL DREDGING
00: -

The present invention discloses a sludge cleaning device for port channel dredging, comprising: a hull

provided with a containing box and a sludge suction assembly; a treatment box provided with a partition plate, a primary water filtering assembly arranged above partition plate and a sludge treatment assembly arranged below partition plate, sludge treatment assembly comprising a support, separation cylinders being arranged on support, multiple water outlet holes being formed in separation cylinder, a cover body capable of being opened and closed being arranged at each separation cylinder, multiple springs being arranged on separation cylinder; a sludge separation assembly, an extrusion assembly, an extrusion block a material discharge assembly. The invention achieves continuous sludge water removal by arranging rotatable support and four separation cylinders, when one separation cylinder is used for feeding, the remaining three separation cylinders are used for rotary separation, extrusion separation, and discharging, respectively and improves working efficiency.

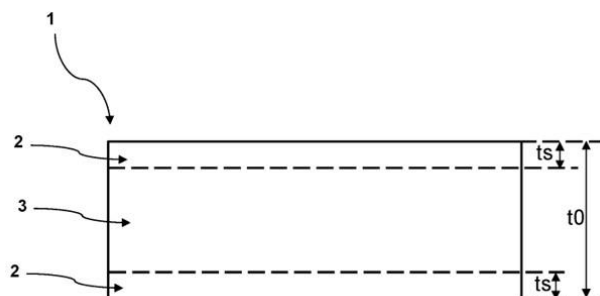


21: 2025/07855. 22: 2025/09/15. 43: 2025/11/12
51: B21D; B32B; C21D; C22C; C23C
71: ARCELORMITTAL
72: Sebastian COBO, Matthieu SALIB
33: IB 31: PCT/IB2024/053677 32: 2024-04-15
54: STEEL PART HAVING HIGH STRENGTH AND HIGH BENDABILITY

00: -

Steel part having a chemical composition comprising, by weight %, $0.18 \leq C \leq 0.27$, $0.18 \leq Si \leq 0.30$, $1.0 \leq Mn \leq 1.5$, $0.14 \leq Cr \leq 0.25$, $0.02 \leq Al \leq 0.06$, $0.02 \leq Ti \leq 0.06$, $0.0020 \leq B \leq 0.0040$, $0 \leq S \leq 0.008$, $0.008 \leq N \leq 0.020$, the remainder of the composition being iron and unavoidable impurities resulting from the elaboration process, having a microstructure comprising, in surface fraction, 95%

or more of martensite, wherein the surface fraction of TiN particles in the skin portion is equal to or greater than 200×10^{-6} inclusions / mm² and the average equivalent diameter of said TiN particles in the skin portion is equal to or smaller than 2.0 microns.



21: 2025/07863. 22: 2025/09/15. 43: 2025/10/31

51: B21D; B32B; C21D; C22C; C23C

71: ARCELORMITTAL

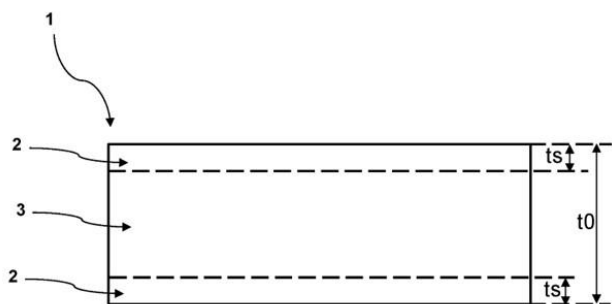
72: Sebastian COBO, Matthieu SALIB

33: IB 31: PCT/IB2024/053675 32: 2024-04-15

54: STEEL PART HAVING HIGH STRENGTH AND HIGH BENDABILITY

00: -

Steel part having a chemical composition comprising, by weight %, $0.18 \leq C \leq 0.27$, $0.18 \leq Si \leq 0.30$, $1.0 \leq Mn \leq 1.5$, $0.14 \leq Cr \leq 0.25$, $0.02 \leq Al \leq 0.06$, $0.02 \leq Ti \leq 0.06$, $0.0020 \leq B \leq 0.0040$, $0 \leq S \leq 0.008$, $0 \leq N \leq 0.020$, the remainder of the composition being iron and unavoidable impurities resulting from the elaboration process, having a microstructure comprising, in surface fraction, 95% or more of martensite and a prior austenite grain skin refinement ratio equal to or above 1.2, said ratio being defined as $PAGS\_B / PAGS\_S$, wherein $PAGS\_B$ is the average prior austenite grain diameter in the bulk (3) expressed in μm and $PAGS\_S$ is the average prior austenite grain diameter in the skin (2), also expressed in μm .



21: 2025/08173. 22: 2025/09/25. 43: 2025/10/31

51: C22C; C21D

71: ARCELORMITTAL

72: Sigrid JACOBS, Xavier CHASSANG, Elke LEUNIS

33: IB 31: PCT/IB2023/061527 32: 2023-11-15

54: A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF

00: -

The invention deals with a non-oriented electrical steel sheet having a composition comprising of the following elements, expressed in percentage by weight: $0.0001\% \leq \text{Carbon} \leq 0.007\%$, $0.15\% \leq \text{Manganese} \leq 0.25\%$, $2.9\% \leq \text{Silicon} \leq 3.4\%$, $0.7\% \leq \text{Aluminum} \leq 1.3\%$, $0.05\% \leq \text{Nickel} \leq 1\%$, $\text{Phosphorus} \leq 0.15\%$, $\text{Sulfur} \leq 0.006\%$, $\text{Nitrogen} \leq 0.09\%$ with $3.85\% \leq Si+Al+Mn \leq 5.5\%$ and can contain one or more of the following optional elements $0\% \leq \text{Niobium} \leq 0.1\%$, $0\% \leq \text{Titanium} \leq 0.1\%$, $0\% \leq \text{Vanadium} \leq 0.1\%$, $0\% \leq \text{Chromium} \leq 1\%$, $0\% \leq \text{Molybdenum} \leq 0.5\%$, $0\% \leq \text{Tungsten} \leq 0.1\%$, $0\% \leq \text{Cobalt} \leq 1\%$, $0\% \leq \text{Arsenic} \leq 0.05\%$, $0.001\% \leq \text{Calcium} \leq 0.01\%$, $0\% \leq \text{Copper} \leq 1\%$, $0\% \leq \text{Boron} \leq 0.05\%$, $0\% \leq \text{Lead} \leq 0.2\%$, $0\% \leq \text{Tin} \leq 0.2\%$, $0\% \leq \text{Antimony} \leq 0.2\%$ the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel sheet being made of ferrite and comprising in area fraction, 80% to 100% recrystallized microstructure, 0% to 20% non-recrystallized microstructure wherein the average grain size of recrystallized microstructure is from 20 microns to 110microns and having a percentage of eddy current losses in total iron losses, measured at 1 T and 400 Hz according to IEC 60404-2 standards, less than 35% when calculated in accordance of Bertotti method

21: 2025/08637. 22: 2025/10/14. 43: 2025/10/23

51: C01B; F23G

71: METHYLENNIUM ENERGY CORP.

72: LYUBOVSKY, Maxim, REARDON, John

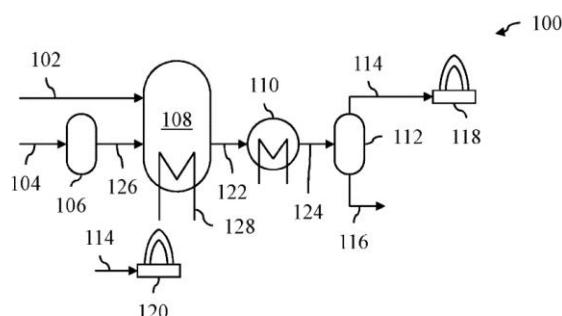
33: US 31: 63/461,524 32: 2023-04-24

54: RENEWABLE FUEL SYNTHESIS SYSTEM AND METHOD

00: -

Systems and methods for producing fuel products from renewable energy sources are disclosed herein. A reactor system includes a variable feed of non-combustible gas, a hydrogen gas buffer providing a variable feed of hydrogen gas, a reactor coupled to the variable feeds and configured to convert the non-combustible gas and the hydrogen gas into a renewable fuel product, a heat exchanger

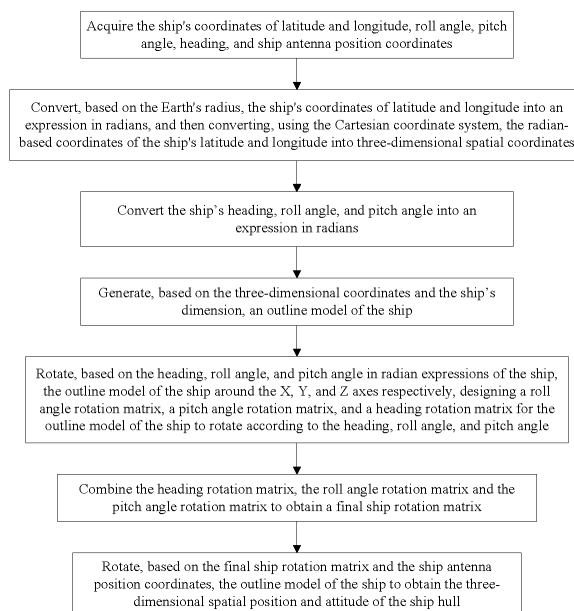
coupled to an outlet of the reactor, a phase separator coupled to an outlet of the heat exchanger and configured to separate a gas stream including un-reacted hydrogen and un-reacted non-combustible gas from a liquid stream including the renewable fuel product, and a burner configured to combust the un-reacted hydrogen contained in the gas stream. The reactor includes an internal heat exchanger configured to provide cooling to the reactor in a normal operating mode and to provide heating to the reactor in an idle mode.



21: 2025/08679. 22: 2025/10/15. 43: 2025/10/23
 51: G06F; G06T
 71: DALIAN MARITIME UNIVERSITY
 72: Guoshuai LI, Guilong LI, Shimiao WANG, Zilong XIE
 33: CN 31: 2024116837931 32: 2024-11-22
54: METHOD FOR ACQUIRING THREE-DIMENSIONAL SPATIAL POSITION AND ATTITUDE OF A SHIP HULL
 00: -

The present invention provides a method for acquiring three-dimensional spatial position and attitude of a ship hull, comprising the following steps: generating, based on the three-dimensional coordinates and the ship's dimension, an outline model of the ship; rotating, based on the heading, roll angle, and pitch angle in radian expressions of the ship, the outline model of the ship around the X, Y, and Z axes respectively, designing a roll angle rotation matrix, a pitch angle rotation matrix, and a heading rotation matrix for the outline model of the ship to rotate according to the heading, roll angle, and pitch angle; combining the heading rotation matrix, the roll angle rotation matrix and the pitch angle rotation matrix to obtain a final ship rotation matrix; and rotating, based on the final ship rotation matrix and the ship antenna position coordinates,

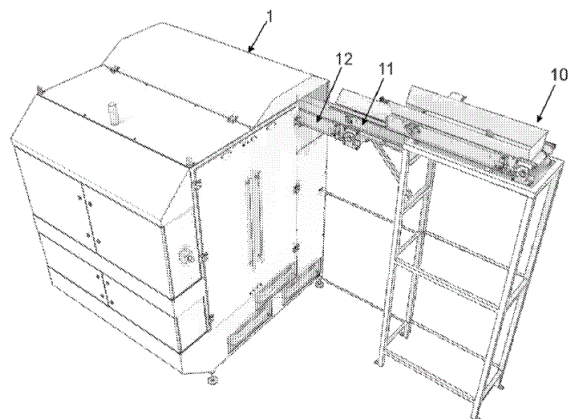
the outline model of the ship to obtain the three-dimensional spatial position and attitude of the ship hull. The present application enables intuitive visualization of the ship's position and attitude in a three-dimensional coordinate system under a cuboid model.



21: 2025/08766. 22: 2025/10/17. 43: 2025/10/23
 51: A01K
 71: GUSTAVO SCHMIDT, Luan, ANTONELLO, Ricardo, HARVEY ANTUNES, Gregori
 72: ANTONELLO, Ricardo, HARVEY ANTUNES, Gregori
 33: BR 31: 1020230065392 32: 2023-04-06
54: EQUIPMENT AND METHOD FOR ANALYSING INDIVIDUAL CHARACTERISTICS AND DETERMINING THE SEX OF BIRDS
 00: -

The present invention, which pertains to the poultry sector, relates to equipment that transports birds by means of a conveyor belt system, directing each bird towards image capture heads. These heads are equipped with heated air blowers, providing thermal comfort for the animals while simultaneously encouraging the birds to spread their wings immediately upon insertion into the head, allowing photographs to be captured for analysis. Jointly, the place where the bird is located, which contains the blowers, moves vertically and constantly, facilitating the capture of various images with greater accuracy. This allows the operating system to identify

individual characteristics with precision, such as potential malformations, absence of feathers at birth, colour deviations from the expected pattern, and mainly, the identification of the sex of each bird.



21: 2025/08815. 22: 2025/10/20. 43: 2025/10/23
51: H04W

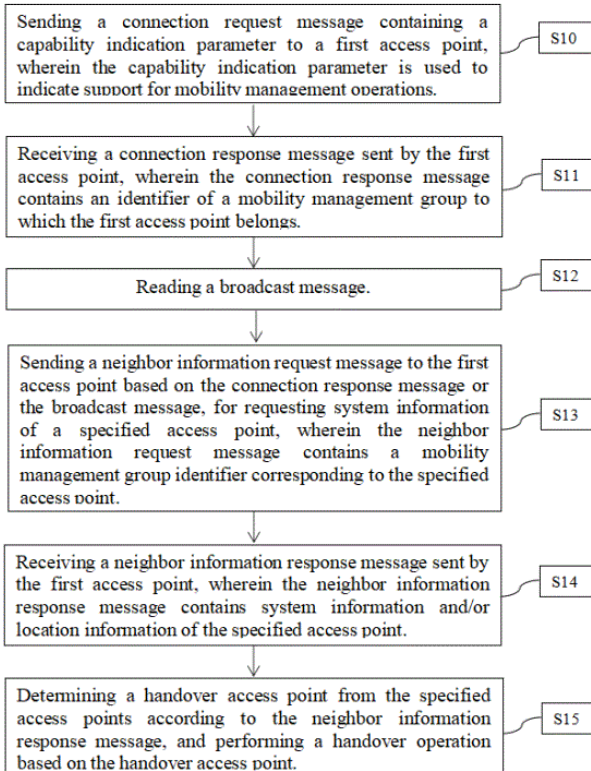
71: LiangPing WANG

72: LiangPing WANG

54: WIRELESS LOCAL AREA NETWORK SWITCHING METHOD AND RELATED DEVICE

00: -

An embodiment of the present application provides a Wireless Local Area Network Switching Method and Related Devices, which are applied to the technical field of wireless communications. The method includes: a terminal sends a connection request message containing a capability indication parameter to a first access point, receives a connection response message containing a mobility management group identifier of the first access point from the first access point, reads a broadcast message, and sends a neighbor information request message to the first access point based on the connection response message or the broadcast message, thereby determining a handover access point according to a neighbor information response message sent by the first access point and performing handover. By using the mobility management group, information on access points providing mobility support is provided to the terminal in advance, thereby reducing interruption time during the handover process of the terminal between access points.



21: 2025/08873. 22: 2025/10/22. 43: 2025/10/23
51: G06F

71: Ocean University of China

72: Shu, Pengcheng, Liu, Ze, You, Yixun, Lu, Kaiyue, Wang, Ruibo, Liu, Yifeng, Zhang, He, Zhang, Lulu, Meng, Qingyu, Lin, Haona

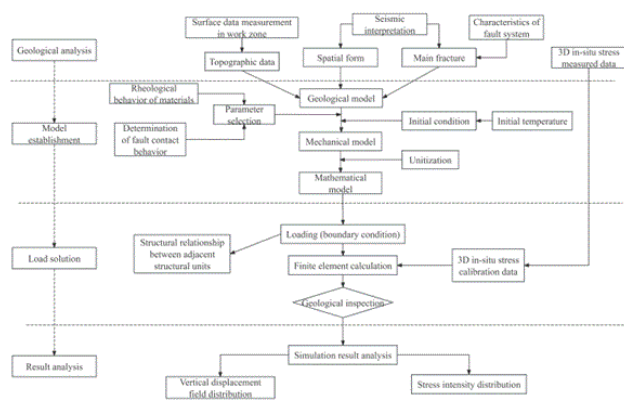
33: CN 31: 2025102374515 32: 2025-03-03

54: DATA ASSIMILATION-BASED PARAMETER OPTIMIZATION METHOD FOR DEEP-SHALLOW COUPLED THREE-DIMENSIONAL IN-SITU STRESS MODELS

00: -

The present invention belongs to the technical field of earth science and engineering, and provides a data assimilation-based parameter optimization method for deep-shallow coupled three-dimensional (3D) in-situ stress models. The method is implemented through the following steps: collecting topographic data of a surface engineering region, analyzing seismic data to obtain underground geological structural information, and measuring 3D in-situ stress data at some observation points in an engineering region; constructing a geological model, a mechanical model, and a mathematical model; setting loading conditions and performing finite element calculations to solve for stress, displacement, and deformation; and introducing

measured data to perform data assimilation for calibrating calculation results, and iteratively adjusting by updating an initial stress parameter set of the model. By using data assimilation technology, the present invention realizes the in-depth integration of observation data and numerical models, significantly improves the prediction precision and accuracy of the 3D in-situ stress model, and provides more accurate data support for engineering design and geological disaster prediction.



21: 2025/08931. 22: 2025/10/23. 43: 2025/10/28
51: G06N; G06Q
71: PowerChina Northwest Engineering Corporation Limited

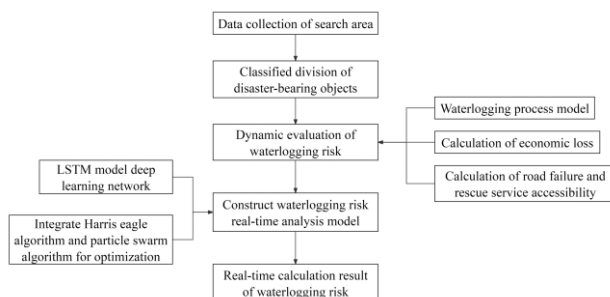
72: LI Xuan, MA Huan, LIU Yuan, MA Long, YAO Pujing, XUE Shuhong, WANG Shu, GUAN Zilong, ZHANG Tao, HE Song, FU Kun, QIANG Minmin, WANG Yan, ZHANG Xingchen, GENG Chen, XUE Bo, SU Bowen

33: CN 31: 202411487822.7 32: 2024-10-24
54: DYNAMIC EVALUATION METHOD FOR EXTREME RAINSTORM WATERLOGGING DISASTER RISK FOR DISASTER PREVENTION AND REDUCTION

00: -

A dynamic evaluation method for an extreme rainstorm waterlogging disaster risk for disaster prevention and reduction. The method comprises: investigating and surveying urban system data and disaster prevention and reduction data, using GIS technology to divide disaster-bearing objects into refined risk units on the scale of urban buildings and road networks, and determining the spatial distribution of the disaster-bearing objects; on the basis of an extreme rainstorm waterlogging scene, simulating the disaster influence of a dynamic change process of a flood ponding depth on the

disaster-bearing objects; developing refined dynamic evaluation on a waterlogging risk by combining the two methods of waterlogging process simulation and an indicator system; using a spatial complex network and a shortest path plan to calculate a traffic capacity and emergency service accessibility of a road network system; and on this basis, taking into comprehensive consideration the rational allocation of disaster prevention emergency drainage and emergency rescue services to a high-risk area, and proposing dynamic evaluation technology for a waterlogging risk that integrates a disaster evolution process and a disaster prevention response process, and ultimately realizing the dynamic evaluation of the waterlogging risk of each disaster-bearing unit during the waterlogging disaster evolution.



21: 2025/09144. 22: 2025/10/29. 43: 2025/11/03
51: C07D
71: NANTONG JIANGSHAN AGROCHEMICAL & CHEMICALS CO., LTD., JIANGSHAN (YICHANG) CROP TECHNOLOGY CO., LTD.
72: DONG, Lei, WANG, Li, DU, Hui, LIN, Yin, XU, Wei
33: CN 31: 202311835052.6 32: 2023-12-28
54: ISOXAZOLINE URACIL COMPOUND CRYSTALLIZATION METHOD AND APPLICATION THEREOF

00: -

Disclosed in the present invention is an isoxazoline uracil compound crystallization method, comprising the following steps: preparing an isoxazoline uracil compound, washing an organic layer with water, and performing filtering; evaporating part of an organic solvent A and adding a solvent B; after heating, performing thorough mixing, cooling, and crystallization to obtain a slurry, performing solid-liquid separation, and performing drying to obtain a powdery solid. The present invention optimizes the amount of organic solvent A removed so that the

mass ratio of the isoxazoline uracil compound to the organic solvent A in the remaining solution is 5:1-1:5, reducing the content of the solvent in an oily product, increasing the saturation of a target product in the solution, and facilitating further crystallization and purification. Further, the crystal form of the isoxazoline-containing uracil compound can be transformed, so that the isoxazoline-containing uracil compound transforms from an oily substance into a bundle-shaped crystal form or a crystal block, and changes from an oily state to a powdery state, improving transport and material storage during production of the isoxazoline-containing uracil compound and the product usability thereof, and expanding the application range of the product.

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

**NOTIFICATION OF THE PATENT EXAMINATION BOARD IN TERMS OF SECTION 21 OF THE PATENT ACT
1978**

**the dtic**Department:
Trade, Industry and Competition
REPUBLIC OF SOUTH AFRICAPrivate Bag X84, PRETORIA, 0001, the dtic Campus, 77 Meintjies Street, Sunnyside, 0002, Tel: (012) 394 0000
the dtic Customer Contact Centre local: 0861 843 384 International: +27 12 394 9500, www.thedtic.gov.za**NOTIFICATION OF THE PATENT EXAMINATION BOARD IN TERMS OF SECTION 21 OF THE PATENT ACT 1978****PATENT EXAMINATION BOARD**

The Patent Examination Board, in terms of Section 21(3)(a)(ix)(bb) of the Patents Act, 1978, has issued certificates to the persons listed below who have passed the prescribed examinations in 2025.

1. Mr Johannes Bernardus Laurens
2. Ms Michelle Amy Cazalet
3. Mr Tristan Alexander Wallace

Ms Udisha Chathuri-Vatta

Chairperson

Patent Examination Board

17 November 2025

Chairperson : Ms Udisha Chathuri-Vatta
Members : Ms Shanaaz Mahomed, Adv Nhlanhla Sibisi, Mr Johnny Fiandeiro, Ms Thandiwe Khumalo,
Dr Magdalena Kleyn and Ms Mathoto Masetla-Mafa
Secretariat : Ms Sheperd Khanyisa Tjale: PEBSecretariat@thedtic.gov.za

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 2025/10/24 -

A2025/01292 - YETI COOLERS, LLC Class 7. INSULATING DEVICE

A2025/01294 - YETI COOLERS, LLC Class 7. INSULATING DEVICE

A2025/01293 - YETI COOLERS, LLC Class 7. INSULATING DEVICE

A2025/01296 - YETI COOLERS, LLC Class 3. BAG

A2025/01298 - APPLE INC. Class 14. BAND

A2025/01295 - YETI COOLERS, LLC Class 7. INSULATING DEVICE

A2025/01291 - YETI COOLERS, LLC Class 7. INSULATING DEVICE

A2025/01299 - MAN Truck & Bus SE Class 12. BUSES

A2025/01297 - YETI COOLERS, LLC Class 3. BAG

- APPLIED ON 2025/10/27 -

A2025/01303 - FERRARI S.P.A. Class 21. TOY CAR

A2025/01301 - Stolle Machinery Company, LLC Class 9. ECOLOGY TABS

A2025/01302 - FERRARI S.P.A. Class 12. CAR

A2025/01300 - Karl Ermel Class 14. HEART SHAPED MICROPHONE CRADLE

A2025/01313 - Cedric Garth Gradus-Samson, Kyle Gradus-Samson Class 17. MULTI-TONE DRUMSTICKS

- APPLIED ON 2025/10/28 -

A2025/01305 - HOCW (Pty) Ltd Class 23. BATH TUB

F2025/01311 - RECIF PROPERTY DEVELOPMENT SOLUTIONS LIMITED Class 07. DISH

A2025/01312 - THE BEST TRUST REGISTRATION NO: IT001800/2017(C) Class 23. SPLIT PIPELINE COUPLING AND WIDE-RANGE ENCAPSULATING REPAIR CLAMP ADAPTABLE FOR PIPE TAPPING, CONNECTIONS, VALVE AND COMPONENT MOUNTING, FLOW-CONTROL, MONITORING, DOSING AND PIPE INTRUSION APPLICATIONS

A2025/01309 - YETI Coolers, LLC Class 7. COOKWARE

A2025/01306 - MASITHELA, Naledi Rethabile Class 21. DOLLS

A2025/01304 - HOCW (Pty) Ltd Class 23. BATH TUB

A2025/01310 - RECIF PROPERTY DEVELOPMENT SOLUTIONS LIMITED Class 07. DISH

A2025/01307 - YETI Coolers, LLC Class 07. LIDS

A2025/01308 - YETI Coolers, LLC Class 7. KNOBS FOR COOKWARE

- APPLIED ON 2025/10/29 -

A2025/01314 - SMARTSTONE HOLDINGS (PTY) LTD. Class 25. CONSTRUCTION BLOCKS

F2025/01318 - HEDO DESIGNS (PTY) LTD Class 09. A CASKET CONTAINER

A2025/01316 - DURBAN UNIVERSITY OF TECHNOLOGY Class 14. SCREEN DISPLAYS

A2025/01317 - HEDO DESIGNS (PTY) LTD Class 09. A CASKET DESIGN

F2025/01315 - SMARTSTONE HOLDINGS (PTY) LTD. Class 25. CONSTRUCTION BLOCKS

F2025/01319 - COTTY, Darryl Edward Albert, GREY, Hilary Joan, RAMAITE, Peter Naledzani, VAN WYK, Petrus Jacobus Class 13. BATTERY HOUSING

F2025/01320 - COTTY, Darryl Edward Albert, GREY, Hilary Joan, RAMAITE, Peter Naledzani, VAN WYK, Petrus Jacobus Class 26. TRAFFIC LIGHT HOOD ARRANGEMENT

- APPLIED ON 2025/10/30 -

A2025/01328 - YETI COOLERS, LLC Class 7. CONTAINER AND LID

A2025/01324 - YETI COOLERS, LLC Class 7. JUG AND LID

F2025/01322 - Schaldor Plastics CC Class 7. DRINKING CUPS

A2025/01323 - YETI COOLERS, LLC Class 7. JUG AND LID

A2025/01327 - YETI COOLERS, LLC Class 7. LID

A2025/01331 - SCHREDER S.A. Class 26. LUMINAIRE

A2025/01332 - Thabo Godfrey Nkgare Class 32. DECORATIVE DESIGN APPLIED TO APPAREL AND HEADGEAR

F2025/01329 - Kyle Gradus_Samson, cedric Garth Gradus-Samson Class 17. MUTI TONE DRUMSTICK (TRITONES)

A2025/01321 - Cecelia Swartz Class 03. STRUCTURED LUNCH BAG WITH REMOVABLE INSULATED POUCH

A2025/01326 - YETI COOLERS, LLC Class 7. LID

A2025/01330 - SCHREDER S.A. Class 26. LUMINAIRE

A2025/01325 - YETI COOLERS, LLC Class 7. LID

- APPLIED ON 2025/10/31 -

A2025/01335 - YETI COOLERS, LLC Class 7. CONTAINER

A2025/01334 - YETI COOLERS, LLC Class 7. CONTAINER

A2025/01333 - Scent of Africa Ltd. Class 9. BOTTLES

- APPLIED ON 2025/11/03 -

A2025/01336 - KALIAN FZ LLE Class 14. AN AUDIO PLAYBACK DEVICE

- APPLIED ON 2025/11/04 -

F2025/01340 - KYTA INDUSTRIES (PTY) LTD Class 20. DISPLAY DEVICE

F2025/01337 - JANSE VAN RENSBURG, Evert Phillippus Class 12. A NUMBER PLATE HOLDER

F2025/01341 - THE BEST TRUST REGISTRATION NO: IT001800/2017(C) Class 23. SPLIT PIPELINE COUPLING AND WIDE-RANGE ENCAPSULATING REPAIR CLAMP ADAPTABLE FOR PIPE TAPPING, CONNECTIONS, VALVE AND COMPONENT MOUNTING, FLOW-CONTROL, MONITORING, DOSING AND PIPE INTRUSION APPLICATIONS

A2025/01338 - JANSE VAN RENSBURG, Evert Phillippus Class 12. A NUMBER PLATE HOLDER

A2025/01339 - KYTA INDUSTRIES (PTY) LTD Class 20. DISPLAY DEVICE

- APPLIED ON 2025/11/05 -

A2025/01372 - Safeera Class 32. BLACK AND GOLD GEOMETRIC PATTERN

- APPLIED ON 2025/11/06 -

A2025/01342 - THE TRUSTEES FOR THE TIME BEING OF THE LIVE LINE INTERNATIONAL TRUST Class 13. SURGE ARRESTOR ASSEMBLY

A2025/01345 - THE TRUSTEES FOR THE TIME BEING OF THE LIVE LINE INTERNATIONAL TRUST Class 13. SURGE ARRESTOR ASSEMBLY

F2025/01343 - THE TRUSTEES FOR THE TIME BEING OF THE LIVE LINE INTERNATIONAL TRUST Class 13. SURGE ARRESTOR ASSEMBLY

F2025/01344 - THE TRUSTEES FOR THE TIME BEING OF THE LIVE LINE INTERNATIONAL TRUST Class 13. SURGE ARRESTOR ASSEMBLY

- APPLIED ON 2025/11/07 -

F2025/01354 - BOOSTAINER PROPRIETARY LIMITED Class 9. PLANTERS

A2025/01347 - Emerald Vine B.V. Class 27. ELECTRONIC CIGARETTE

A2025/01357 - KIDD, Andrew Dennis Lockington Class 19. A LABEL

F2025/01355 - BOOSTAINER PROPRIETARY LIMITED Class 9. PLANTERS

F2025/01351 - BOOSTAINER PROPRIETARY LIMITED Class 23. HOLDERS FOR PIPES

A2025/01356 - BOOSTAINER PROPRIETARY LIMITED Class 9. PLANTERS

A2025/01350 - YETI COOLERS, LLC Class 9. CONTAINER AND STRAP

F2025/01353 - BOOSTAINER PROPRIETARY LIMITED Class 9. PLANTERS

A2025/01348 - SICHUAN AEROFUGIA TECHNOLOGY DEVELOPMENT CO., LTD., ZHEJIANG GEELY HOLDING GROUP CO., LTD. Class 12. AIRCRAFT

F2025/01352 - BOOSTAINER PROPRIETARY LIMITED Class 9. STANDS FOR BAGS

A2025/01349 - YETI COOLERS, LLC Class 9. CONTAINER AND STRAP

A2025/01346 - Emerald Vine B.V. Class 27. ELECTRONIC CIGARETTE (PART OF)

- APPLIED ON 2025/11/10 -

A2025/01361 - UNILEVER GLOBAL IP LIMITED Class 32. LOGO

F2025/01359 - Tamryn Malotane-Thomas Class 02. WEARABLE UTILITY TOWEL

A2025/01360 - Mr Keabetswe Thato Given Makhutle Class 20. MULTIPURPOSE MOVABLE TABLE-TOP DISPLAY STAND FOR SIGNAGES, PHONES, TABLETS, LAPTOPS, PAINTINGS PHOTO FRAMES AND BOOKS.

F2025/01358 - ENVISION AFRICA (PTY) LTD Class 24. SAFETY SLEEVE COMPONENTS

- APPLIED ON 2025/11/11 -

A2025/01373 - Thandi Radebe Class 21. CHIGAGO PLAY TOY

A2025/01362 - SWEDISH MATCH NORTH EUROPE AB Class 27. CONTAINER

A2025/01364 - SWEDISH MATCH NORTH EUROPE AB Class 27. CONTAINER

A2025/01365 - SWEDISH MATCH NORTH EUROPE AB Class 27. CONTAINER

A2025/01367 - Chery Automobile Co., Ltd. Class 12. AUTOMOBILES

A2025/01363 - SWEDISH MATCH NORTH EUROPE AB Class 27. CONTAINER

A2025/01370 - Chery Automobile Co., Ltd. Class 12. AUTOMOBILES

A2025/01369 - Chery Automobile Co., Ltd. Class 12. AUTOMOBILES

A2025/01366 - DURBAN UNIVERSITY OF TECHNOLOGY Class 8. LITTER PICKERS

A2025/01368 - YETI Coolers, LLC Class 03. BACKPACKS

A2025/01371 - FAMILY HIVE LLC Class 9. COMBINED BOTTLE AND CAP FOR COSMETICS

- APPLIED ON 2025/11/12 -

A2025/01374 - YETI Coolers, LLC Class 3. BACKPACKS

- APPLIED ON 2025/11/13 -

A2025/01379 - UNILEVER GLOBAL IP LIMITED Class 9. A CARTON FOR AN ARTICLE

A2025/01378 - UNILEVER GLOBAL IP LIMITED Class 9. A CARTON FOR AN ARTICLE

A2025/01377 - UNILEVER GLOBAL IP LIMITED Class 9. A CARTON FOR AN ARTICLE

A2025/01376 - UNILEVER GLOBAL IP LIMITED Class 9. A CARTON FOR AN ARTICLE

A2025/01375 - Dave M Draper Class 25. UPVC UNIFIED DESIGN DOOR AND FRAMES

A2025/01380 - YETI COOLERS, LLC Class 3. BAG

- APPLIED ON 2025/11/14 -

A2025/01382 - CASIO KEISANKI KABUSHIKI KAISHA D.B.A. CASIO COMPUTER CO., LTD. Class 18.
ELECTRONIC CALCULATOR

A2025/01385 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

F2025/01381 - BRICK MANAGEMENT AND MANUFACTURING SUPPLIES (PTY) LTD Class 8. PUG MILL
KNIFE ASSEMBLY

A2025/01383 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2025/01384 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

- APPLIED ON 2025/11/17 -

A2025/01386 - New-Tec Integration (Xiamen) Co., Ltd. Class 08. SPRING MODULE

- APPLIED ON 2025/11/18 -

F2025/01397 - Juandre Klopper Class 24. KLOPPERS SUCTION DISSECTOR

F2025/01396 - PHOENIX INDUSTRIAL & SAFETY SUPPLIERS CC Class 02. SAFETY HELMET

A2025/01394 - Turlen Holding SA Class 10. WATCH MECHANISMS

A2025/01389 - PACITA PLASTICS CC Class 08. A RIVET CAP

A2025/01391 - YETI COOLERS, LLC Class 7. LID

F2025/01388 - PACITA PLASTICS CC Class 08. A RIVET

A2025/01395 - PHOENIX INDUSTRIAL & SAFETY SUPPLIERS CC Class 02. SAFETY HELMET

A2025/01392 - YETI COOLERS, LLC Class 7. PART OF A LID

F2025/01390 - PACITA PLASTICS CC Class 08. A RIVET CAP

A2025/01387 - PACITA PLASTICS CC Class 08. A RIVET

A2025/01393 - Turlen Holding SA Class 10. WATCHES

F2025/01398 - Juandre Klopper Class 01. COOLER GLASS

- APPLIED ON 2025/11/19 -

F2025/01401 - Kapcon (Pty) Ltd Class 12. AN AIRCRAFT TUG DEVICE

F2025/01399 - Zanri Lloyd Class 19. BOTTLE GIFT WRAPPING TAG WITH MESSAGE CARD AND RIBBON

A2025/01402 - Kapcon (Pty) Ltd Class 12. AN AIRCRAFT TUG DEVICE

F2025/01400 - Itumeleng Metsing Class 02. FAMILY KE MASEPA

- APPLIED ON 2025/11/20 -

F2025/01404 - Victor Havenga Trust Class 12. WHEELSET

F2025/01410 - Victor Havenga Trust Class 12. AXLE

F2025/01407 - Victor Havenga Trust Class 12. WHEELSET

F2025/01408 - Victor Havenga Trust Class 12. SPACER

F2025/01409 - Victor Havenga Trust Class 12. AXLE

F2025/01403 - Victor Havenga Trust Class 12. AXLE BOX ASSEMBLY

F2025/01406 - Victor Havenga Trust Class 12. AXLE BOX ASSEMBLY

F2025/01405 - Victor Havenga Trust Class 12. SPACER

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

Notice is hereby given that **RCR FLOORING PRODUCTS LTD of Mill Close, Lee Mill Industrial Estate, IVYBRIDGE PL29 GL, Devon, UK** has made application for the restoration of the design registered to the said **RCR FLOORING PRODUCTS LTD** for the Design **JOINT SYSTEMS FOR CONCRETE SLABS** application number: **A2019/00249** date **18/08/2019** which become void on **20/09/2021** 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

Notice is hereby given that **RCR FLOORING PRODUCTS LTD of Mill Close, Lee Mill Industrial Estate, IVYBRIDGE PL29 GL, Devon, UK** has made application for the restoration of the design registered to the said **RCR FLOORING PRODUCTS LTD** for the Design **JOINT SYSTEMS FOR CONCRETE SLABS** application number: **F2019/00250** date **18/08/2019** which become void on **20/09/2021** 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

VOLUNTARY SURRENDER OF A DESIGN IN TERMS OF SECTION 34 REGULATION 42(4) OF THE DESIGN ACT

No records available

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

No records available

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page.

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: A2023/00394 22: 2023-03-24 23:
43: 2022-09-27
52: Class 15 24: Part A
71: Graco Minnesota Inc.
33: US 31: 29/854,667 32: 2022-09-27

54: MANIFOLDS

57: The design is for a manifold. The manifold includes a parallelepiped slender shaped body including opposite major faces, opposite minor faces, a top face and a bottom face. Three longitudinally spaced apart large ports defining bores are provided on the top face. Three laterally spaced apart mounting ports defining bores are defined on an upper portion of one of the major faces. A pair of laterally spaced openings each defining bores are provided on a lower portion of each of the major

faces. A large bore opening is provided on a lower portion of each of the minor faces and disposed towards the left-hand side of one of the minor faces and the right-hand side of the other minor face. Three longitudinally spaced apart ports each defining bores are provided on a bottom face of the body and are disposed proximate one of the longer edges of the bottom face.

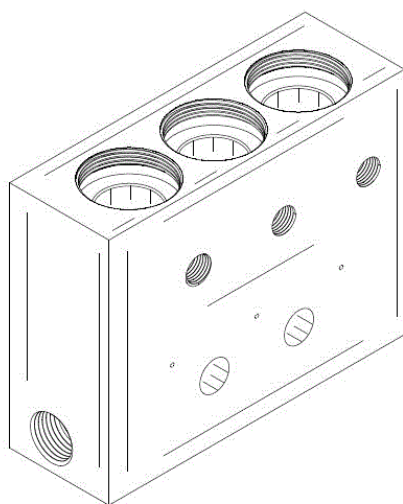


Figure 1

Three-dimensional view

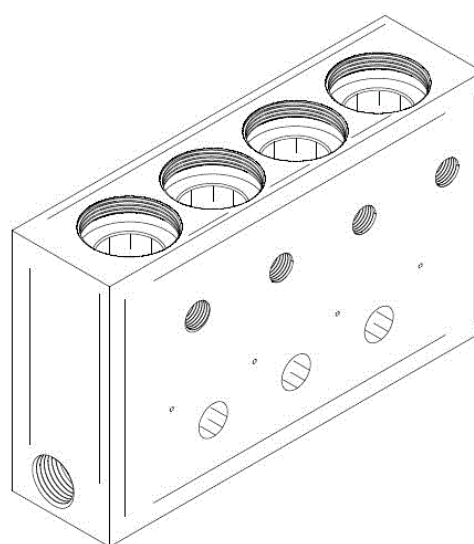


Figure 1

Three-dimensional view

21: A2023/00397 22: 2023-03-24 23:

43: 2022-09-27

52: Class 15 24: Part A

71: Graco Minnesota Inc.

33: US 31: 29/854,667 32: 2022-09-27

54: MANIFOLDS

57: The design is for a manifold. The manifold includes a parallelepiped, slender-shaped body including opposite major faces, opposite minor faces, a top face, and a bottom face. Four longitudinally spaced apart large ports defining bores are defined on the top face. Four laterally spaced apart mounting ports are provided on an upper portion of each of the major faces. Three laterally spaced bore openings are provided on a lower portion of one of the major faces and two laterally spaced apart bore openings are provided on a lower portion of the other major face. A large bore opening is provided on a lower portion of each of the minor faces and disposed towards the right-hand side of one of the minor face and the left-hand side of the other minor face. Four longitudinally spaced apart ports are provided on a bottom face of the body and are disposed proximate one of the longer edges of the bottom face.

21: A2023/00398 22: 2023-03-24 23:

43: 2022-09-27

52: Class 15 24: Part A

71: Graco Minnesota Inc.

33: US 31: 29/854,667 32: 2022-09-27

54: MANIFOLDS

57: The design is for a manifold. The manifold includes a parallelepiped, slender-shaped body including opposite major faces, opposite minor faces, a top face, and a bottom face. Five longitudinally spaced apart large ports are provided on the top face. Five laterally spaced apart mounting ports are defined on an upper portion of each of the major faces. Four laterally spaced bore openings are provided on a lower portion of one of the major faces and two laterally spaced apart bore openings are provided on a lower portion of the other major face. A large bore opening is provided on a lower portion of each of the minor faces and disposed towards a left-hand side on the one minor face and the right-hand side of the other minor face. Five longitudinally spaced apart ports each defining bores are provided on a bottom face of the body and are disposed proximate one of the longer edges of the bottom face.

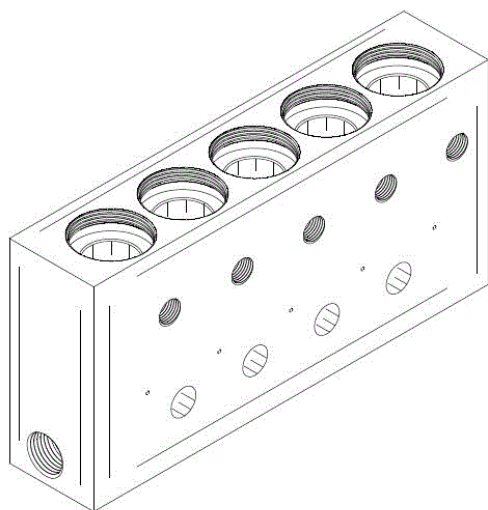


Figure 1

Three-dimensional view

21: A2023/01467 22: 2023-12-21 23:
43: 2025-10-21

52: Class 07 24: Part A

71: A.P.S. Plastics (Pty) Ltd.

54: GRINDER GEAR ARRANGEMENT

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of a grinder gear arrangement substantially as shown in the accompanying representation(s).



21: A2024/00876 22: 2024-09-09 23:
43: 2025-09-09

52: Class 28 24: Part A

71: Jemella Group Limited

33: GB 31: 6385226 32: 2024-08-16

33: GB 31: 6385227 32: 2024-08-16

54: HAIR IRONS

57: The design is for a hair iron. The hair iron has two arms, connected to a "Y" shaped portion, which is substantially hexagon-shaped at the top and bottom. Each of the arms have an outer bulbous front portion which tapers into an intermediate narrow portion where they connect to the "Y" shaped

portion. Central contour shaped formations feature on the outer surface of each bulbous portion, where it starts to taper. On the inside of the arms, there is a curved rectangular plate positioned at the bulbous end of each arm. The "Y" shaped portion features a ring, connecting to a cylindrical portion positioned at the base of the hair iron.

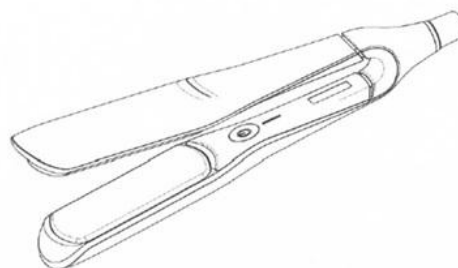


Figure 7

Three-dimensional view in open configuration

21: A2024/00877 22: 2024-09-09 23:

43: 2025-09-09

52: Class 28 24: Part A

71: Jemella Group Limited

33: GB 31: 6385228 32: 2024-08-16

33: GB 31: 6385229 32: 2024-08-16

54: HAIR IRONS

57: The design is for a hair iron. The hair iron has two arms, connected to a "Y" shaped portion, which is substantially hexagon-shaped at the top and bottom. Each of the arms have an outer bulbous front portion which tapers into an intermediate narrow portion where they connect to the "Y" shaped portion. Central contour shaped formations feature on the outer surface of each bulbous portion, where it starts to taper. On the inside of the arms, there is a curved rectangular plate positioned at the bulbous end of each arm. The "Y" shaped portion features a ring, connecting to a cylindrical portion positioned at the base of the hair iron.



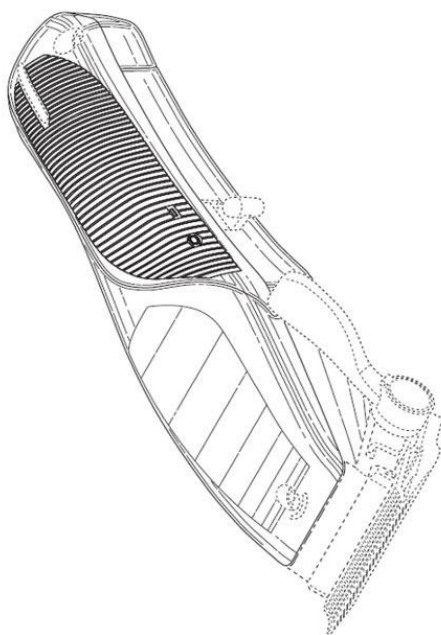
Figure 7

Three-dimensional view in open configuration

21: A2024/01107 22: 2024-10-24 23:
43: 2025-05-16
52: Class 28 24: Part A
71: WAHL CLIPPER CORPORATION
33: US 31: 29/943,113 32: 2024-05-20

54: HAIR CLIPPER

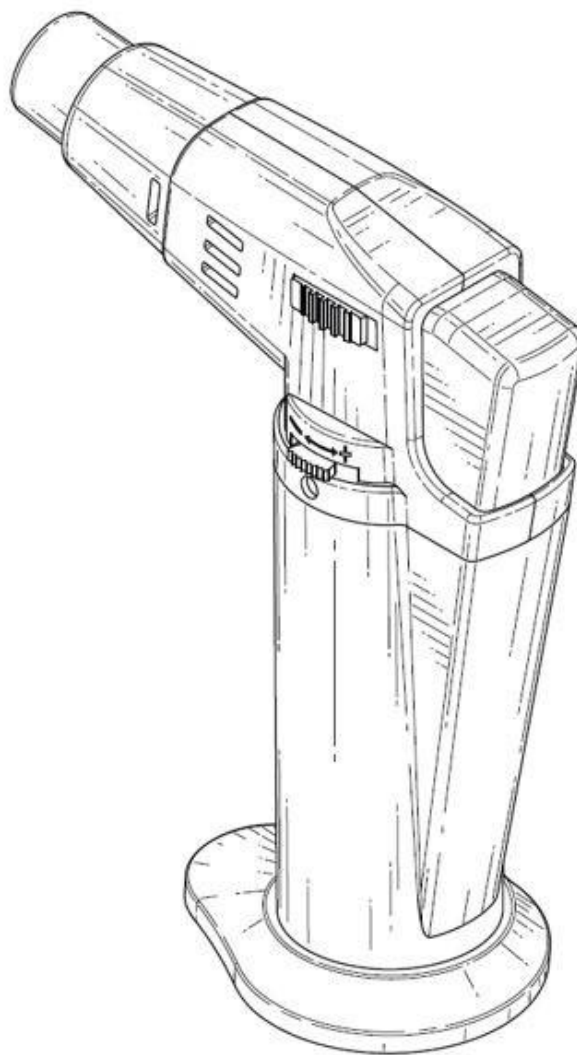
57: The features of the design for which protection is claimed are those of the shape and/or configuration of a hair clipper substantially as illustrated in the accompanying drawing. The areas in dotted outline are for illustrative purposes only and do not form part of the design.



21: A2024/01133 22: 2024-11-05 23:
43: 2025-10-09
52: Class 07 24: Part A
71: FLAMAGAS, S.A.
33: IB 31: DM/239037 32: 2024-05-08

54: GAS LIGHTER

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a gas lighter, substantially as shown in the representations.

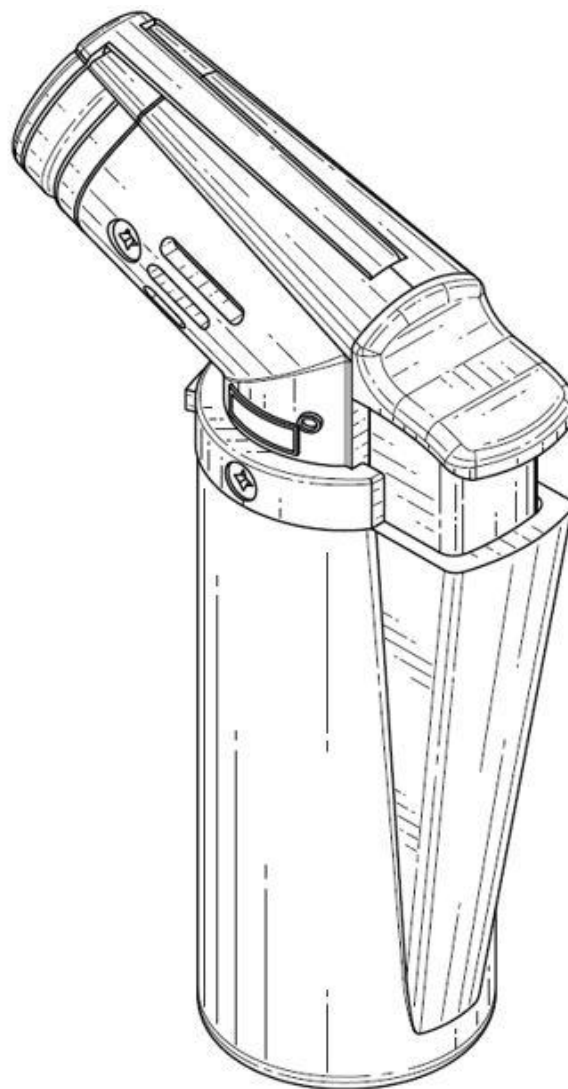
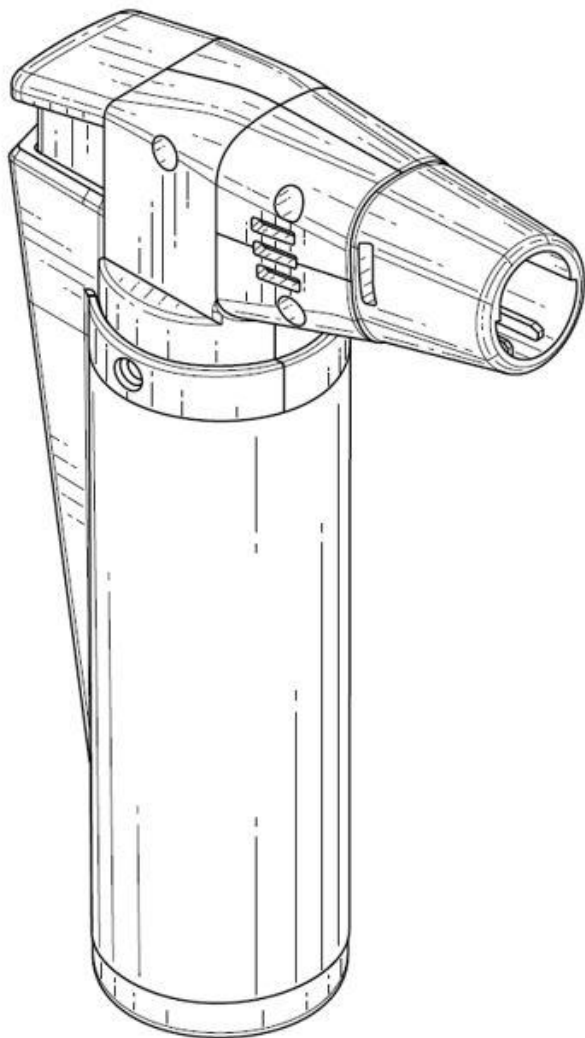


21: A2024/01134 22: 2024-11-05 23:
43: 2025-10-09
52: Class 07 24: Part A
71: FLAMAGAS, S.A.
33: WO 31: DM/239037 32: 2024-05-08

54: GAS LIGHTER

57: The features of the design are those of pattern and/or shape and/or configuration and/or

ornamentation of a gas lighter, substantially as shown in the representations.



21: A2024/01136 22: 2024-11-05 23:
43: 2025-10-09
52: Class 07 24: Part A
71: FLAMAGAS, S.A.
33: WO 31: DM/239037 32: 2024-05-08

54: GAS LIGHTER

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a gas lighter, substantially as shown in the representations.

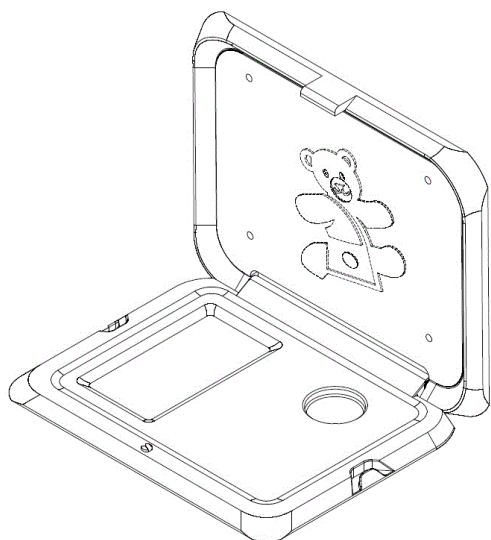
21: A2025/00132 22: 2025-02-04 23:
43: 2025-02-04

52: Class 6 24: Part A

71: BUDDY TRAY (PTY) LTD.

54: FOLDABLE STORAGE TRAYS

57: The design is for a foldable storage tray. The features of the design are illustrated in the foldable storage tray. It is the overall design of the foldable storage tray that is claimed.



Three-dimensional view in an open position

21: A2025/00133 22: 2025-02-04 23:

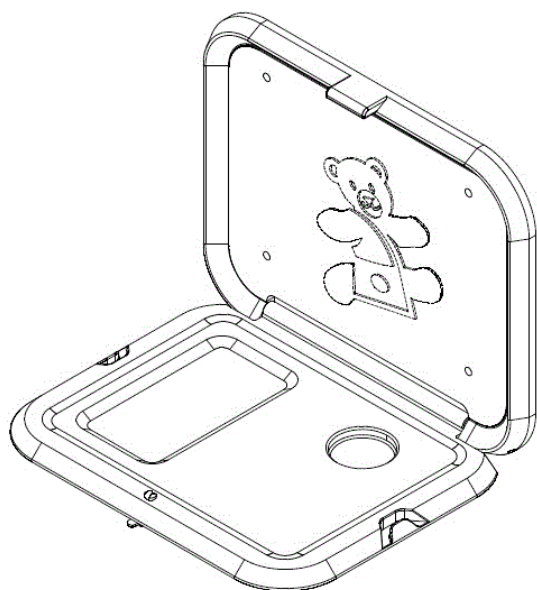
43: 2025-02-04

52: Class 6 24: Part A

71: BUDDY TRAY (PTY) LTD.

54: FOLDABLE STORAGE TRAYS

57: The design is for a foldable storage tray. The features of the design are illustrated in the foldable storage tray. It is the overall design of the foldable storage tray that is claimed.



Three-dimensional view in an open position

21: A2025/00139 22: 2025-02-07 23:

43: 2024-08-09

52: Class 08 24: Part A

71: PVH Production A/S

33: EM(DK) 31: 015069123-0001 32: 2024-08-09

54: FIXING BRACKETS

57: The design is for a fixing bracket. The fixing bracket has an end piece defining a grooved surface and curved rounded edges on an elongate part of the end piece.

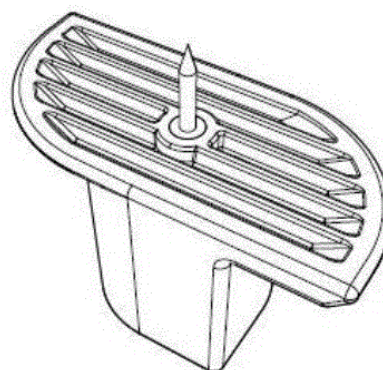


Figure 1

First three-dimensional view

21: A2025/00140 22: 2025-02-07 23:

43: 2025-09-09

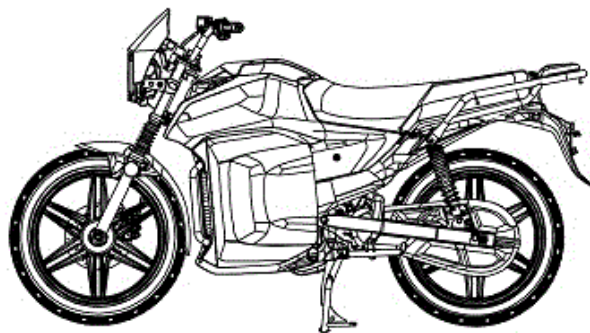
52: Class 12. 24: Part A

71: NANJING VMOTO MANUFACTURING CO. LTD

33: CN 31: 202430502556.5 32: 2024-08-08

54: Vehicle

57: The design relates to a vehicle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

**LEFT SIDE VIEW**

 21: A2025/00146 22: 2025-02-11 23:

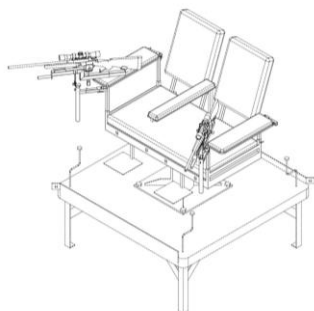
43: 2024-11-25

52: Class 6 24: Part A

71: SAFARI HUNT (PTY) LTD

54: Seats for Vehicles

57: A seat for a vehicle includes an elongate seating arrangement having a rectangular shape for seating at least two persons, and two backrests provided at a major side of the elongate seating arrangement. Each backrest can, independently of the other, be provided at the opposing major edge of the elongate seating arrangement. The seat includes two elongate armrests laterally positioned at each minor side of the elongate seating arrangement, and another centrally. Each lateral armrest has two laterally rotatable receptacles for receiving rifle rests. The rifle rests are interchangeable between the receptacles. Where the backrests are in a side-by-side configuration, the rifle rests are inserted in the receptacles on the opposite side of the seat. Where the backrests are in an opposing configuration, the rifle rests are inserted in the receptacles opposite each backrest.



 21: A2025/00148 22: 2025-02-11 23:

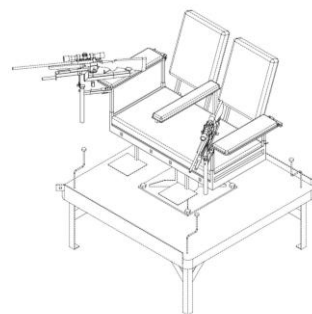
43: 2024-11-25

52: Class 22 24: Part A

71: SAFARI HUNT (PTY) LTD

54: Seats for Vehicles

57: A seat for a vehicle includes an elongate seating arrangement having a rectangular shape for seating at least two persons, and two backrests provided at a major side of the elongate seating arrangement. Each backrest can, independently of the other, be provided at the opposing major edge of the elongate seating arrangement. The seat includes two elongate armrests laterally positioned at each minor side of the elongate seating arrangement, and another centrally. Each lateral armrest has two laterally rotatable receptacles for receiving rifle rests. The rifle rests are interchangeable between the receptacles. Where the backrests are in a side-by-side configuration, the rifle rests are inserted in the receptacles on the opposite side of the seat. Where the backrests are in an opposing configuration, the rifle rests are inserted in the receptacles opposite each backrest.



 21: A2025/00163 22: 2025-02-14 23:

43: 2025-09-09

52: Class 12. 24: Part A

71: VOLKSWAGEN AKTIENGESSELLSCHAFT

33: DE 31: 40 2024 100 814.2 32: 2024-10-24

54: Motor Vehicle

57: The design relates to a motor vehicle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

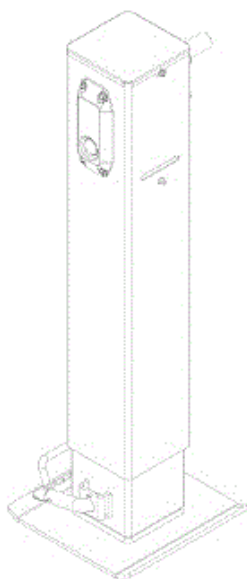


**FRONT LEFT SIDE PERSPECTIVE
VIEW**

21: A2025/00166 22: 2025-02-17 23:
43: 2025-09-09
52: Class 12. 24: Part A
71: SIMOL S.P.A.
33: EM 31: 015077849-0001 32: 2024-10-30

54: Lifting Jack

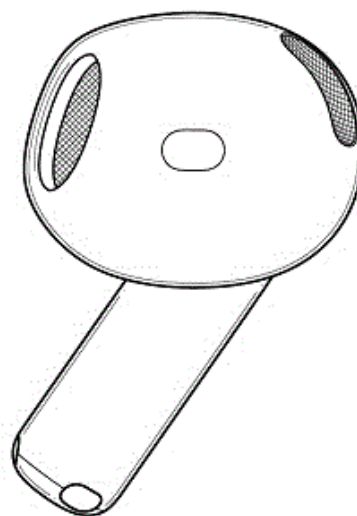
57: The design relates to a lifting jack. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT AND RIGHT SIDE PERSPECTIVE VIEW

21: A2025/00217 22: 2025-02-25 23:
43: 2025-09-09
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/959,575 32: 2024-08-26
54: Set of Earphones

57: The design relates to a set of earphones. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

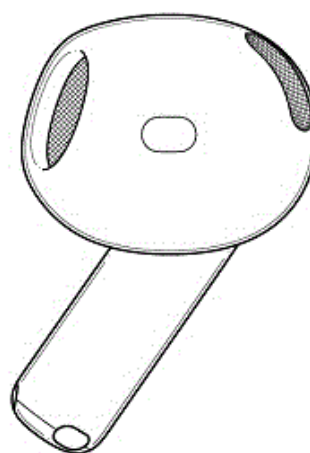


**FRONT PERSPECTIVE VIEW RIGHT
SIDE EARPHONE**

21: A2025/00218 22: 2025-02-25 23:
43: 2025-09-09
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/959,575 32: 2024-08-26

54: Set of Earphones

57: The design relates to a set of earphones. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

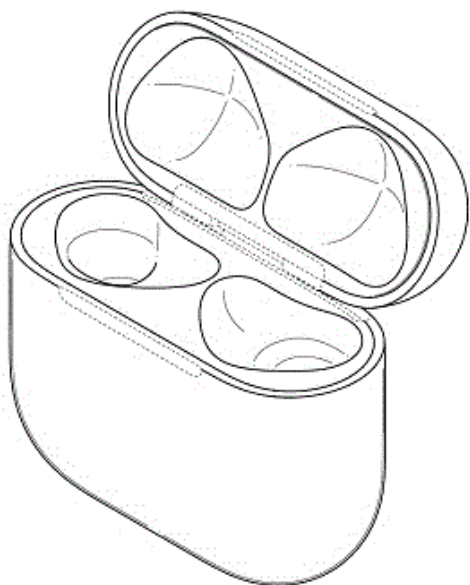


**FRONT PERSPECTIVE VIEW
RIGHT SIDE EARPHONE**

21: A2025/00219 22: 2025-02-25 23:
43: 2025-09-09
52: Class 3. 24: Part A
71: APPLE INC.
33: US 31: 29/959,576 32: 2024-08-26

54: Case for Earphones

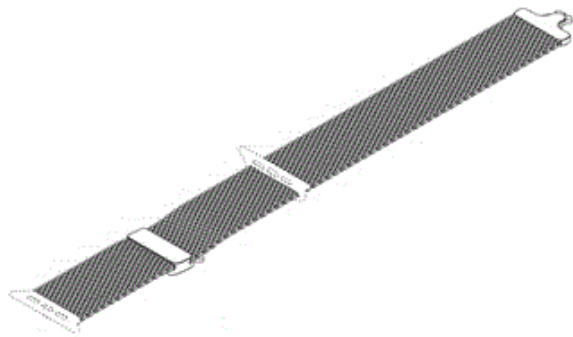
57: The design relates to a case for earphones. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

**TOP AND FRONT PERSPECTIVE VIEW**

21: A2025/00234 22: 2025-02-27 23:
43: 2025-09-04
52: Class 10. 24: Part A
71: APPLE INC.
33: US 31: 29/960,263 32: 2024-08-29

54: Band

57: The design relates to a band. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

**TOP AND FRONT PERSPECTIVE
VIEW**

21: A2025/00235 22: 2025-02-27 23:
43: 2025-09-04
52: Class 10. 24: Part A
71: APPLE INC.
33: US 31: 29/959,895 32: 2024-08-28

54: Electronic Device

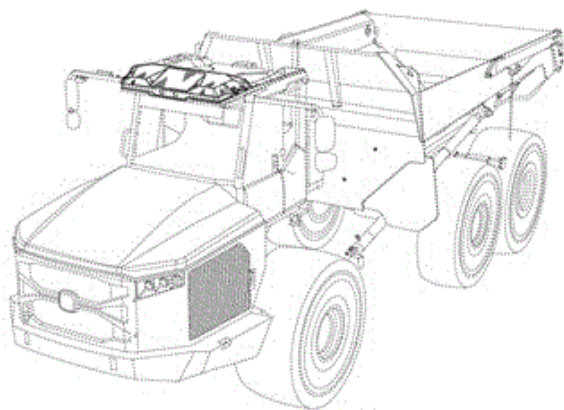
57: The design relates to an electronic device. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

**BOTTOM AND FRONT PERSPECTIVE VIEW**

21: A2025/00236 22: 2025-02-27 23:
43: 2025-09-09
52: Class 12. 24: Part A
71: DEERE & COMPANY
33: US 31: 29/972,550 32: 2024-11-11

54: Sensor Pod for a Work Vehicle

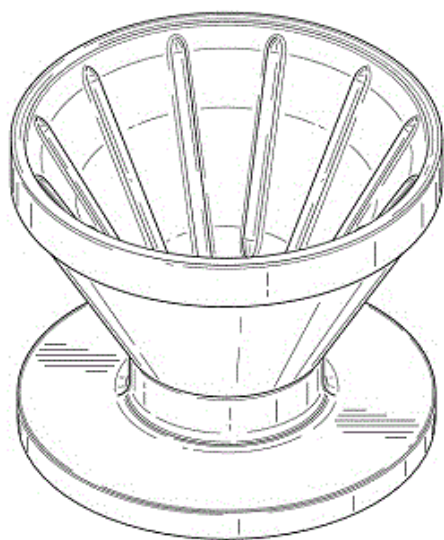
57: The design relates to a sensor pod for a work vehicle. The features of the design are those of shape and/or configuration and/or ornamentation.

**PERSPECTIVE VIEW IN USE**

21: A2025/00238 22: 2025-02-28 23:
43: 2025-09-09
52: Class 7. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/960,046 32: 2024-08-28

54: Coffee Maker

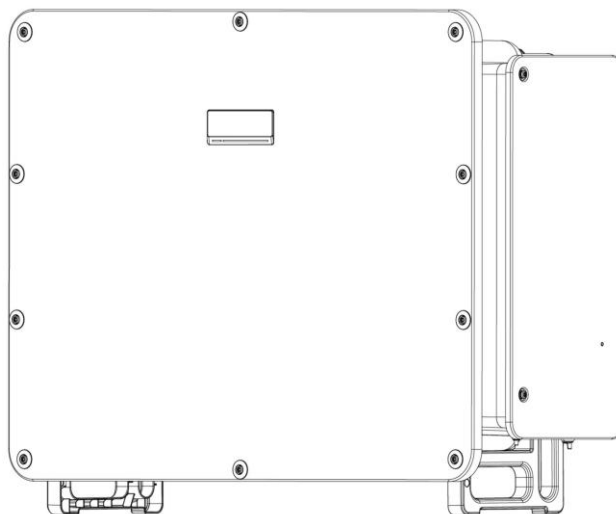
57: The design relates to a coffee maker. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

**TOP FRONT PERSPECTIVE VIEW**

21: A2025/00276 22: 2025-03-07 23:
43: 2025-10-09
52: Class 13 24: Part A
71: SUNGROW POWER SUPPLY CO., LTD.
33: CN 31: 2024306759138 32: 2024-10-25

54: INVERTER

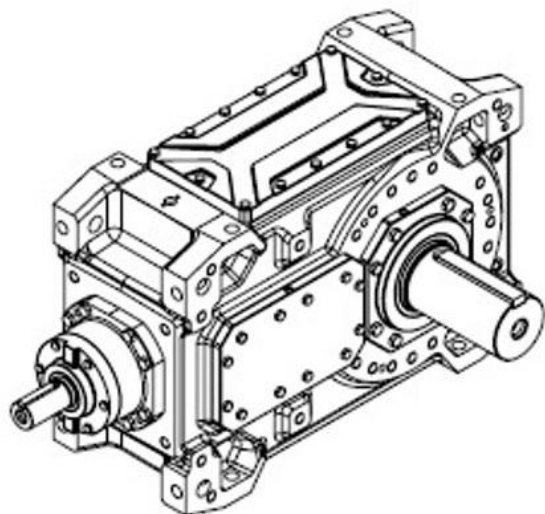
57: The design is applied to an inverter. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the inverter, substantially as illustrated in the accompanying representation.



21: A2025/00277 22: 2025-03-07 23:
43: 2025-10-09
52: Class 15 24: Part A
71: FLENDER INDUSTRIEGETRIEBE GMBH
33: EU 31: 015071715-0001 32: 2024-09-09

54: GEARBOX COVER

57: The design is applied to a gearbox cover. 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 gearbox cover, substantially as illustrated in the accompanying representation.



21: A2025/00278 22: 2025-03-07 23:

43: 2025-10-09

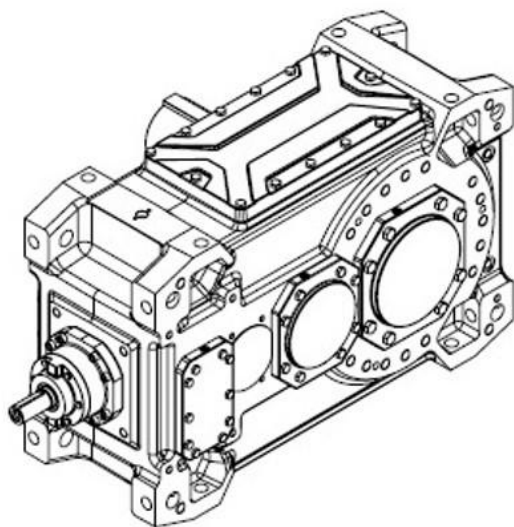
52: Class 15 24: Part A

71: FLENDER INDUSTRIEGEtrieBE GMBH

33: EU 31: 015071715-0002 32: 2024-09-09

54: GEARBOX COVER

57: The design is applied to a gearbox cover. 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 gearbox cover, substantially as illustrated in the accompanying representation.



21: A2025/00279 22: 2025-03-07 23:

43: 2025-10-09

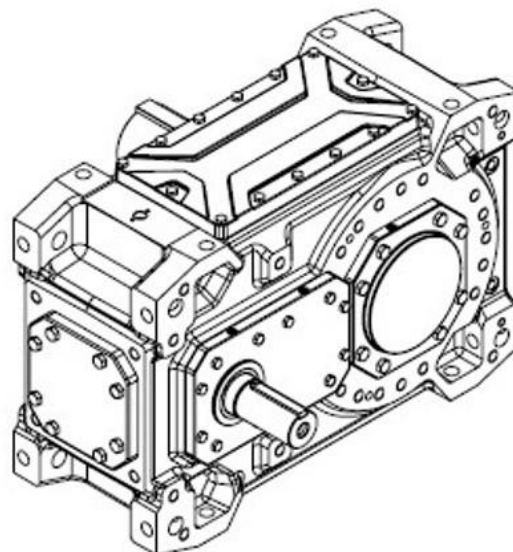
52: Class 15 24: Part A

71: FLENDER INDUSTRIEGEtrieBE GMBH

33: EU 31: 015071715-0003 32: 2024-09-09

54: GEARBOX COVER

57: The design is applied to a gearbox cover. 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 gearbox cover, substantially as illustrated in the accompanying representation.



21: A2025/00280 22: 2025-03-07 23:

43: 2025-10-09

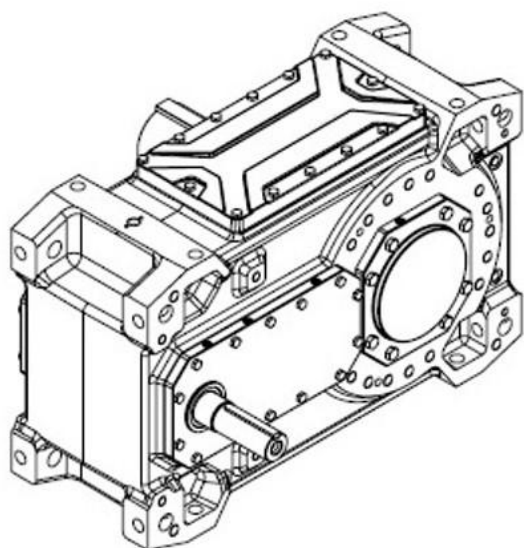
52: Class 15 24: Part A

71: FLENDER INDUSTRIEGEtrieBE GMBH

33: EU 31: 015071715-0004 32: 2024-09-09

54: GEARBOX COVER

57: The design is applied to a gearbox cover. 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 gearbox cover, substantially as illustrated in the accompanying representation.



21: A2025/00281 22: 2025-03-07 23:

43: 2025-10-09

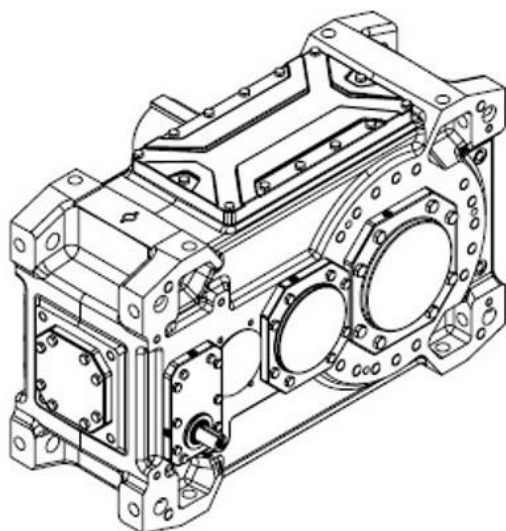
52: Class 15 24: Part A

71: FLENDER INDUSTRIEGETRIEBE GMBH

33: EU 31: 015071715-0005 32: 2024-09-09

54: GEARBOX COVER

57: The design is applied to a gearbox cover. 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 gearbox cover, substantially as illustrated in the accompanying representation.



21: A2025/00376 22: 2025-04-04 23:

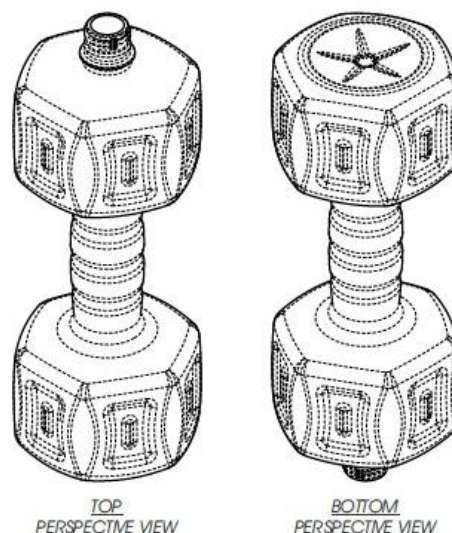
43: 2025-11-13

52: Class 09 24: Part A

71: RATSHITANGA, Tshililo Thivhaloshi

54: BOTTLE

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 BOTTLE substantially as shown in the accompanying representations.



21: A2025/00378 22: 2025-04-08 23:

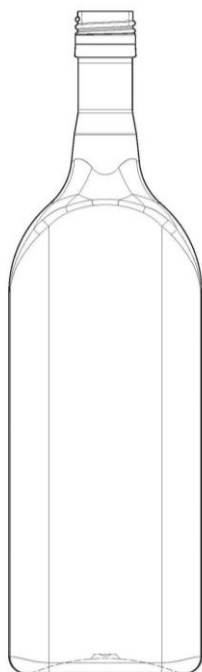
43: 2025-11-12

52: Class 09 24: Part A

71: Polyoak Packaging (Pty) Ltd

54: BOTTLE

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2025/00380 22: 2025-04-08 23:

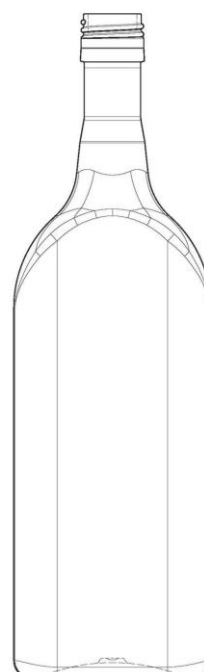
43: 2025-11-12

52: Class 09 24: Part A

71: Polyoak Packaging (Pty) Ltd

54: BOTTLE

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2025/00411 22: 2025-04-14 23:

43: 2025-11-12

52: Class 25 24: Part A

71: Axel BÜTTGEN

54: BUILDING BLOCK

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: F2023/01468 22: 2023-12-21 23:

43: 2025-10-21

52: Class 07 24: Part F

71: A.P.S. Plastics (Pty) Ltd.

54: GRINDER GEAR ARRANGEMENT

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of a grinder gear arrangement substantially as shown in the accompanying representation(s).



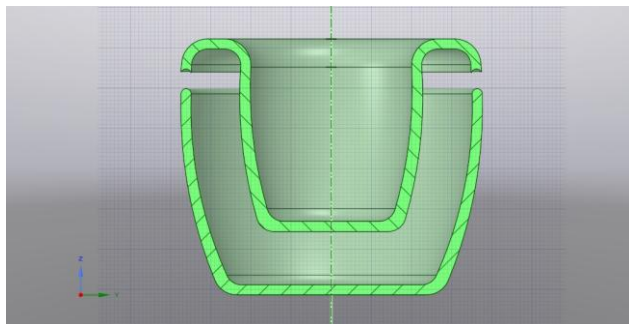
21: F2024/00826 22: 2024-08-26 23:
43: 2025-10-21

52: Class 31 24: Part F

71: Wilhelmus Corneluis Adolf Moller

54: DEEP FEED TRENCHER POT

57: Protection is claimed for the features of shape, pattern, and/or configuration for a set of two. The pot and the lid of a bread/ pastry pot with a novel lid of conical / 3 or many sided pyramidal shape protruding into the pot, substantially as shown in the accompanying representation. This two part pot will be manufactured in many materials including but not limited to: Cast iron, earthenware silicone, copper and non stick coated metal



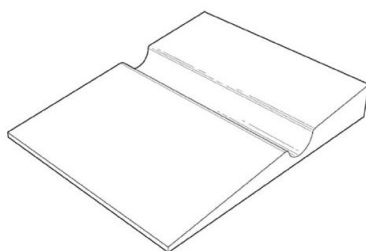
21: F2024/01003 22: 2024-10-03 23:
43: 2025-09-22

52: Class 06 24: Part F

71: STÖHR, ERICA AUGUSTE

54: CUSHION

57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a CUSHION as shown in the accompanying representations.



FRONT PERSPECTIVE VIEW

21: F2024/01010 22: 2024-10-04 23:

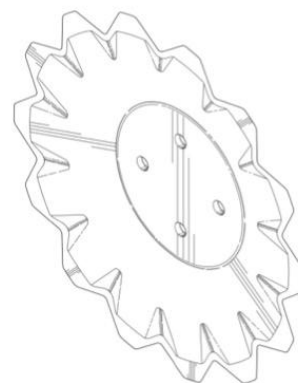
43: 2025-10-21

52: Class 15 24: Part F

71: BOK IMPLEMENTE (PTY) LTD

54: HARROW DISCS

57: The design is directed to a harrow disc, in particular to a concave harrow disc featuring a serrated cutting edge and strategically placed notches, providing superior cutting and tilling performance. The serrated edges enable efficient soil penetration and residue incorporation, while the notched configuration prevents clogging, ensuring smooth operation in residue-heavy fields. This novel design promotes optimised mixing action, improved soil structure, and extended blade longevity.



Three-dimensional view of a harrow disc

21: F2024/01080 22: 2024-10-16 23:
43: 2025-10-21

52: Class 01 24: Part F

71: Wilhelmus Corneluis Adolf Moller

54: FEEDME BREAD

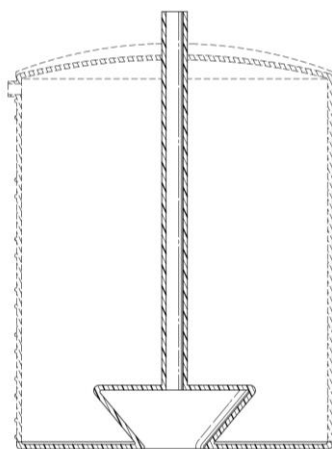
57: The purpose of the FeedMe bread is to produce, an edible container with a concavity in the center into which one can then scoop ones food ingredients. The user of the bread can then eat the container as well as the foodstuff contained there in in a natural manner.



21: F2024/01379 22: 2024-12-20 23:
43: 2025-10-21
52: Class 23 24: Part F
71: VAN DER MERWE, Jacobus Quintus

54: STORAGE TANKS

57: The design is for a water tank, the features of the design for which protection is claimed include the pattern and/or shape and/or configuration of a storage tank, substantially as shown in the representations. The specific outer shape and dimension of the storage tank, marked in broken lines, may vary and are disclaimed.

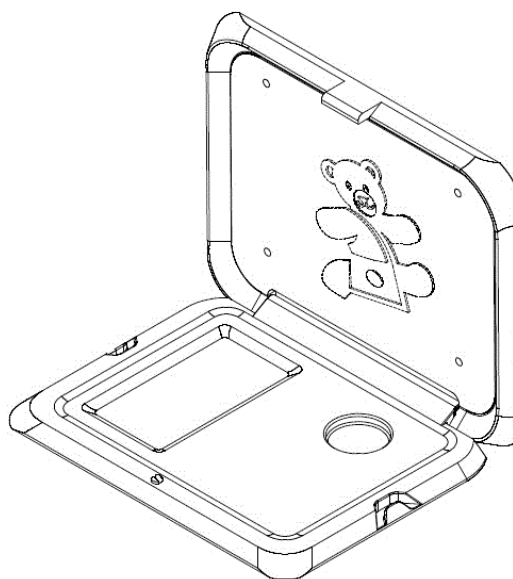


Sectional front view of a storage tank

21: F2025/00131 22: 2025-02-04 23:
43: 2025-02-04
52: Class 6 24: Part F
71: BUDDY TRAY (PTY) LTD.

54: FOLDABLE STORAGE TRAYS

57: The design is for a foldable storage tray. The features of the design are illustrated in the foldable storage tray. It is the overall design of the foldable storage tray that is claimed.

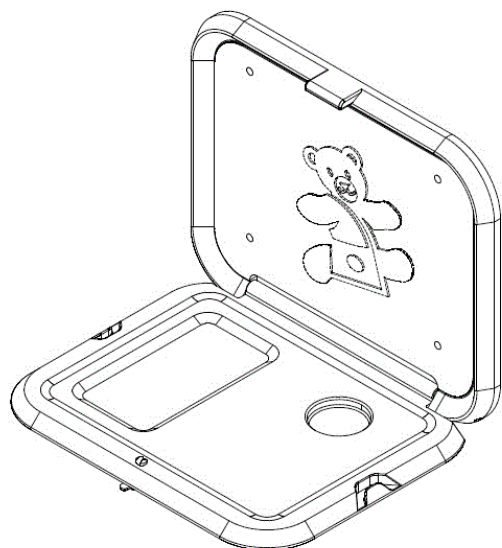


Three-dimensional view in an open position

21: F2025/00134 22: 2025-02-04 23:
43: 2025-02-04
52: Class 6 24: Part F
71: BUDDY TRAY (PTY) LTD.

54: FOLDABLE STORAGE TRAYS

57: The design is for a foldable storage tray. The features of the design are illustrated in the foldable storage tray. It is the overall design of the foldable storage tray that is claimed.



Three-dimensional view in an open position

21: F2025/00147 22: 2025-02-11 23:

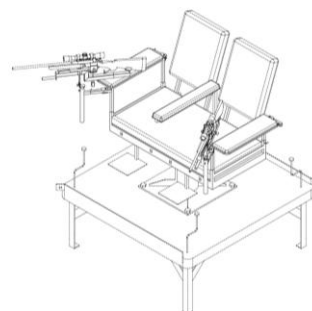
43: 2024-11-25

52: Class 6 24: Part F

71: SAFARI HUNT (PTY) LTD

54: Seats for Vehicles

57: A seat for a vehicle includes an elongate seating arrangement having a rectangular shape for seating at least two persons, and two backrests provided at a major side of the elongate seating arrangement. Each backrest can, independently of the other, be provided at the opposing major edge of the elongate seating arrangement. The seat includes two elongate armrests laterally positioned at each minor side of the elongate seating arrangement, and another centrally. Each lateral armrest has two laterally rotatable receptacles for receiving rifle rests. The rifle rests are interchangeable between the receptacles. Where the backrests are in a side-by-side configuration, the rifle rests are inserted in the receptacles on the opposite side of the seat. Where the backrests are in an opposing configuration, the rifle rests are inserted in the receptacles opposite each backrest.



21: F2025/00149 22: 2025-02-11 23:

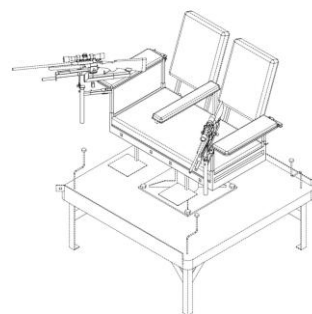
43: 2024-11-25

52: Class 22 24: Part F

71: SAFARI HUNT (PTY) LTD

54: Seats for Vehicles

57: A seat for a vehicle includes a seating arrangement having a rectangular shape for seating at least two persons, and two backrests provided at a major side of the elongate seating arrangement. Each backrest can, independently of the other, be provided at the opposing major edge of the elongate seating arrangement. The seat includes two elongate armrests laterally positioned at each minor side of the elongate seating arrangement, and another centrally. Each lateral armrest has two laterally rotatable receptacles for receiving rifle rests. The rifle rests are interchangeable between the receptacles. Where the backrests are in a side-by-side configuration, the rifle rests are inserted in the receptacles on the opposite side of the seat. Where the backrests are in an opposing configuration, the rifle rests are inserted in the receptacles opposite each backrest."



21: F2025/00150 22: 2025-02-11 23:

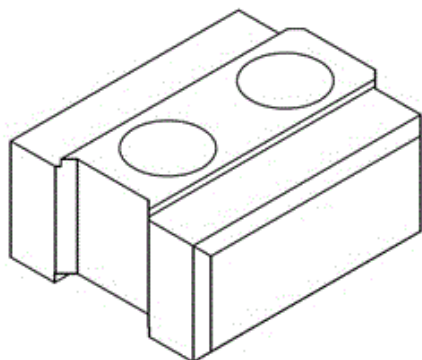
43: 2025-09-09

52: Class 25. 24: Part F

71: HYDRAFORM DEVELOPMENTS
(PROPRIETARY) LIMITED

54: Building Block

57: The design relates to a building block. The features of the design are those of shape and configuration.



TOP PERSPECTIVE VIEW

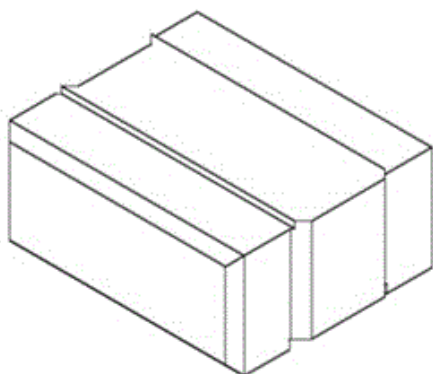
21: F2025/00151 22: 2025-02-11 23:
43: 2025-09-09

52: Class 25. 24: Part F

71: HYDRAFORM DEVELOPMENTS
(PROPRIETARY) LIMITED

54: Building Block

57: The design relates to a building block. The features of the design are those of shape and configuration.



TOP PERSPECTIVE VIEW

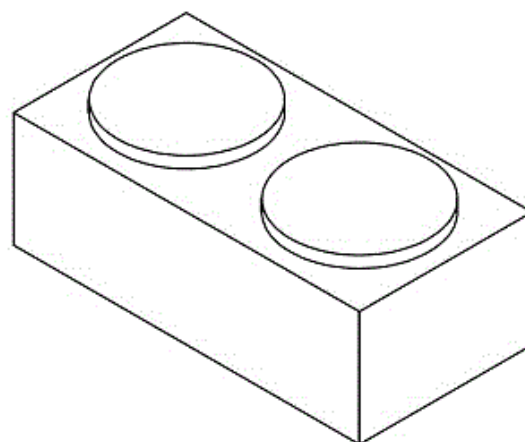
21: F2025/00154 22: 2025-02-11 23:
43: 2025-09-09

52: Class 25. 24: Part F

71: HYDRAFORM DEVELOPMENTS
(PROPRIETARY) LIMITED

54: Building Block

57: The design relates to a building block. The features of the design are those of shape and configuration.



TOP PERSPECTIVE VIEW

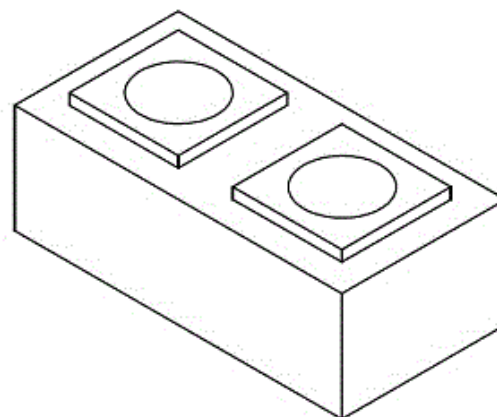
21: F2025/00156 22: 2025-02-11 23:
43: 2025-09-09

52: Class 25. 24: Part F

71: HYDRAFORM DEVELOPMENTS
(PROPRIETARY) LIMITED

54: Building Block

57: The design relates to a building block. The features of the design are those of shape and configuration.



TOP PERSPECTIVE VIEW

21: F2025/00208 22: 2025-02-21 23:
43: 2025-09-09

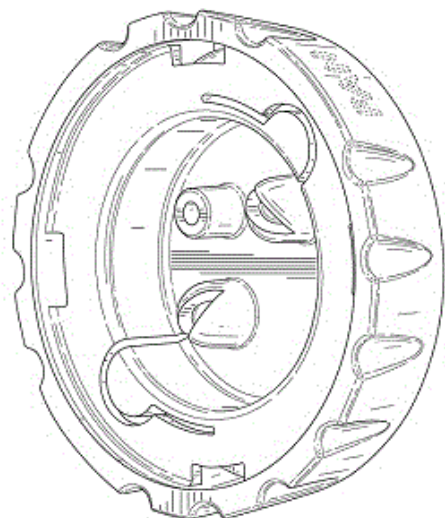
52: Class 23. 24: Part F

71: W.M. BARR & COMPANY, INC.

33: US 31: 29/958,667 32: 2024-08-21

54: Spray Selector

57: The design relates to a spray selector. The features of the design are those of shape and/or configuration.



PERSPECTIVE VIEW OF A FIRST EMBODIMENT

21: F2025/00209 22: 2025-02-21 23: 43: 2025-09-09

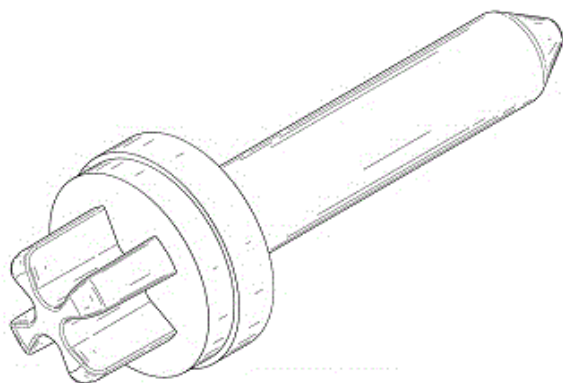
52: Class 23. 24: Part F

71: W.M. BARR & COMPANY, INC.

33: US 31: 29/958,661 32: 2024-08-21

54: Piston with Sealing Element

57: The design relates to a piston with sealing element. The features of the design are those of shape and/or configuration.



FRONT PERSPECTIVE VIEW OF A FIRST EMBODIMENT

21: F2025/00210 22: 2025-02-21 23: 43: 2025-09-09

52: Class 23. 24: Part F

71: W.M. BARR & COMPANY, INC.

33: US 31: 29/958,676 32: 2024-08-21

54: Cartridge Assembly

57: The design relates to a cartridge assembly. The features of the design are those of shape and/or configuration and/or pattern.



PERSPECTIVE VIEW

21: F2025/00226 22: 2025-02-26 23: 43: 2025-10-09

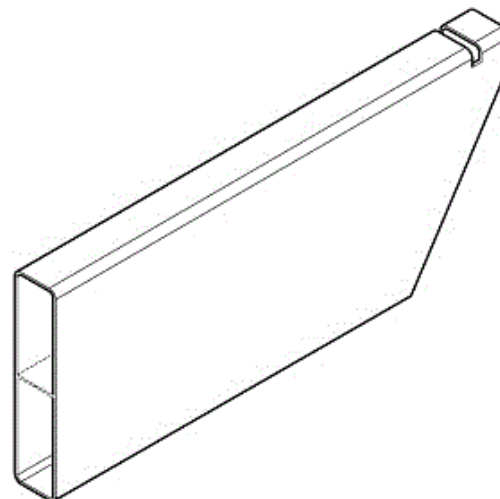
52: Class 25 24: Part F

71: PRAESIDIAD HOLDING BV

33: EP 31: 015092795 32: 2025-02-14

54: FENCE POST

57: The design is applied to a fence post. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the fence post, substantially as illustrated in the accompanying representation and irrespective of the overall length of the fence post.



TOP PERSPECTIVE VIEW

21: F2025/00230 22: 2025-02-26 23:
43: 2025-09-09
52: Class 25. 24: Part F
71: HYDROSTRUCT (PTY) LTD
33: ZA 31: F2024/00833 32: 2024-08-26

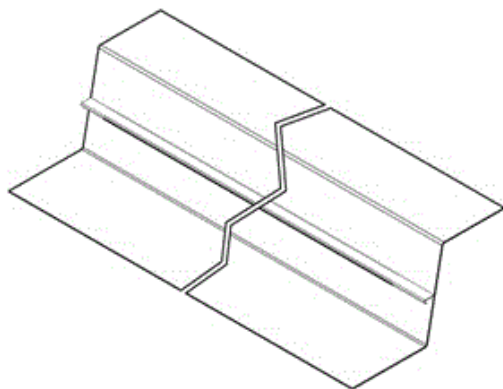
54: Damp Proof Course

57: The design relates to a damp proof course. The features of the design are those of shape and/or configuration.

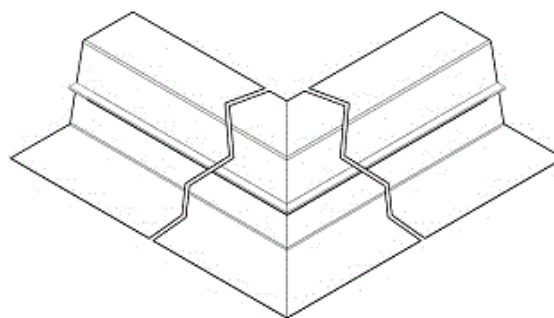
21: F2025/00232 22: 2025-02-26 23:
43: 2025-09-09
52: Class 25. 24: Part F
71: HYDROSTRUCT (PTY) LTD
33: ZA 31: F2024/00833 32: 2024-08-26

54: Damp Proof Course

57: The design relates to a damp proof course. The features of the design are those of shape and/or configuration.



TOP PERSPECTIVE VIEW



TOP PERSPECTIVE VIEW

21: F2025/00231 22: 2025-02-26 23:
43: 2025-09-09
52: Class 25. 24: Part F
71: HYDROSTRUCT (PTY) LTD
33: ZA 31: F2024/00833 32: 2024-08-26

54: Weep Vent

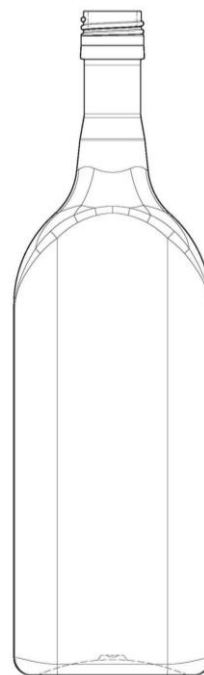
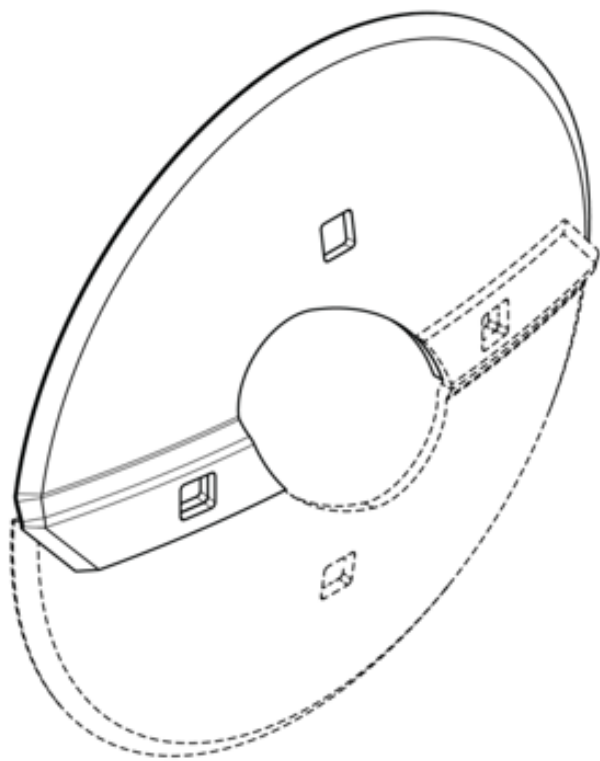
57: The design relates to a weep vent. The features of the design are those of shape and/or configuration.

21: F2025/00293 22: 2025-03-11 23:
43: 2025-10-09
52: Class 15 24: Part F
71: HAIDNAY INNOVATION COMPANY PTY LTD
33: AU 31: 202416564 32: 2024-09-12

54: HARROW DISC PIECE

57: The design is applied to a harrow disc piece. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the harrow disc piece, substantially as illustrated in the accompanying representation.

Features shown in broken lines do not form part of the design and are disclaimed.



21: F2025/00381 22: 2025-04-08 23:

43: 2025-11-13

52: Class 09 24: Part F

71: Polyoak Packaging (Pty) Ltd

54: BOTTLE

57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE 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.

21: 2025/00012. 22: 2025/11/12 43: 2025/11/12
24: 2023/01/02 to 2023/12/31; Soshanguve Pretoria
25: 2025/08/30; Pretoria

71: Las Number Pictures (Pty) Ltd 188 Berg Eagle
Kosmos Ridge, Hartbeespoort, 0216, South Africa.
75: Las Number Pictures (Pty) Ltd 188 Berg Eagle
Kosmos Ridge, Hartbeespoort, ZA, 0216, Phone:
0828148424, Email: lasnumberpictures@gmail.com;

76: Tshegofastso Hama; Kgalaletso Mataboge;
Kabelo Ramputa

77: Tebogo Mkhabela

54: Nomvula

78: Tebogo Mkhabela; Kgalalesto Mataboge;
Tshegofastso Hama; Kabelo Ramputa

26: Theatres, Cinemas, Streaming Platforms and
Television.

55: Specimen lodged/Not lodged.

56: Preview Requested/Not requested

57: This story is about Nomvula, 21 year old varsity student from Soshanguve, who comes from a lower middle class family. Her breadwinner father Godfrey, a retired miner, decides to use his retirement lump sum to buy a Toyota Quantum to start his taxi business. Unfortunately, Nomvula's father tragically dies, forcing Nomvula to step up and become a taxi driver for her mother and little brother, while putting her studies on hold. Nomvula quickly realizes she is in patriarchal taxi industry and grittily navigates the adversity that comes with it.

58: DR

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

No records available

DESIGNS CORRECTION NOTICES

No records available

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for November 2025

Number of Advertised Patents: 491

Application Number	Patent Title	Filing Date
2014/05094	CHIMERIC FACTOR VIII POLYPEPTIDES AND USES THEREOF	2014/07/11
2018/06884	NET HOOK RETAINER	2018/10/16
2019/02743	ANTIBODIES AND POLYPEPTIDES DIRECTED AGAINST CD127	2019/05/02
2019/05961	ELECTRICAL IMPEDANCE SENSING DENTAL DRILL SYSTEM CONFIGURED TO DETECT CANCELLOUS¿CORTICAL BONE AND BONE¿SOFT TISSUE BOUNDARIES	2019/09/10
2019/06229	A ROCK DRILL	2019/09/20
2019/08168	STORING HAZARDOUS MATERIAL IN A SUBTERRANEAN FORMATION	2019/12/09
2019/08329	A LINING FOR A HAUL TRUCK BODY, A TRANSITION LINING ELEMENT AND A METHOD FOR FASTENING A LINING	2019/12/12
2020/02080	GLP-2 ANALOGS AND PEPTIBODIES FOR ADMINISTRATION BEFORE, DURING OR AFTER SURGERY	2020/05/04
2020/02151	MULTISPECIFIC ANTIGEN-BINDING MOLECULE HAVING BLOOD COAGULATION FACTOR VIII (FVIII) COFACTOR FUNCTION-SUBSTITUTING ACTIVITY, AND PHARMACEUTICAL FORMULATION CONTAINING SAID MOLECULE AS ACTIVE INGREDIENT	2020/05/04
2020/02342	NATURAL CREAMER WITH HIGH TOLERANCE TO ACIDITY AND MINERALS IN BEVERAGE	2020/05/04
2020/02614	METHODS OF PRODUCING ENSEID PLANT MATERIALS USING MEGASPHAERA ELSDENII	2020/05/11
2020/02888	ELECTROSPINNING DEVICE AND METHOD	2020/05/18
2020/03137	NUCLEIC ACID, COMPOSITION AND CONJUGATE CONTAINING SAME,	2020/05/27

Application Number	Patent Title	Filing Date
	AND PREPARATION METHOD AND USE	
2020/04470	COMPOSITIONS AND METHODS FOR TREATING NEOPLASIA	2020/07/20
2020/04956	MULTI-SOURCE MICRONUTRIENT COMPOSITION AND METHODS OF TREATING SOIL WITH THE SAME	2020/08/11
2020/05723	METHODS OF TREATING MINIMAL RESIDUAL CANCER	2020/09/15
2020/06137	SUBSTITUTED IMIDAZOLIDIN-2-ONE DERIVATIVES AS PRMT5 INHIBITORS	2020/10/02
2021/00299	AN ACTUATED VALVE	2021/01/15
2021/00846	AN INHALER DEVICE	2021/02/08
2021/01930	A PERCUSSION MECHANISM	2021/03/23
2021/02095	TRANSPORT AND HOISTING OF SLURRY	2021/03/26
2021/02471	A ROCK DRILL	2021/04/14
2021/03516	ANTIBIOTIC COMPOUNDS, METHODS OF MANUFACTURING THE SAME, PHARMACEUTICAL COMPOSITIONS CONTAINING THE SAME AND USES THEREOF	2021/05/24
2021/03718	PROOF-OF-WORK FOR BLOCKCHAIN APPLICATIONS	2021/05/31
2021/03934	A PROCESS FOR THE PREPARATION OF HIGH SURFACE AREA ALPHA ALUMINA AND THE USE THEREOF	2021/06/08
2021/04744	OVER-THE-NEEDLE CATHETER ASSEMBLIES AND RELATED MANUFACTURING METHOD	2021/07/07
2021/04807	CONTINUOUS BLOW MOULDING MACHINE, PREFORMS, SYSTEM AND PROCESS	2021/07/09
2021/04920	METHODS OF TREATING TYROSINE KINASE INHIBITOR-INDUCED DIARRHEA	2021/07/13
2021/04995	METHODS OF PURIFYING AN ALLERGEN EXTRACT	2021/07/15
2021/05283	THE USE OF PROTOPORPHYRIN IX DERIVATIVES TO IMPROVE THE HEALTH OF PLANTS	2021/07/26
2021/05643	PROCESSES AND COMPOUNDS	2021/08/10
2021/06312	KITS AND FLOW CELLS	2021/08/30
2021/09187	AN INSECT TRAP	2021/11/17
2022/01794	CRYSTALLINE FORMS OF CFTR MODULATORS	2022/02/10
2022/02468	A METHOD AND APPARATUS FOR CONTROLLING AN INDUSTRIAL GAS PLANT COMPLEX	2022/02/28

Application Number	Patent Title	Filing Date
2022/02469	A METHOD AND APPARATUS FOR MANAGING PREDICTED POWER RESOURCES FOR AN INDUSTRIAL GAS PLANT COMPLEX	2022/02/28
2022/02470	METHOD AND APPARATUS FOR MONITORING OPERATIONAL CHARACTERISTICS OF AN INDUSTRIAL GAS PLANT COMPLEX	2022/02/28
2022/02741	METHOD FOR SENDING NETWORK MESSAGE, DEVICE AND NETWORK PROCESSOR	2022/03/07
2022/03421	MODIFIER OF FOUR-MEMBERED RING DERIVATIVE, PREPARATION METHOD AND APPLICATION THEREOF	2022/03/23
2022/04518	METHOD FOR PROCESSING PLASTIC PYROLYSIS OILS WITH A VIEW TO THEIR USE IN A STEAM-CRACKING UNIT	2022/04/21
2022/05301	ABSORBENT ARTICLE WITH ACQUISITION COMPONENT	2022/05/12
2022/05852	BREAST IMPLANT WRAPS TO LIMIT MOVEMENT OF BREAST IMPLANTS AND RELATED METHODS	2022/05/26
2022/05930	ALUMINA HAVING A PARTICULAR PORE PROFILE	2022/05/27
2022/05936	DRY POWDER FORMULATIONS OF THYMIC STROMAL LYMPHOPOIETIN (TSLP)-BINDING ANTIBODIES AND METHODS OF USE THEREOF	2022/05/27
2022/06838	GREASE GUN	2022/06/20
2022/08019	MICROFLUIDIC PROCESSING SYSTEM AND METHOD OF AGRICULTURAL SLURRY	2022/07/19
2022/08086	HYBRID AUTOMATIC REPEAT REQUEST (HARQ) MECHANISM FOR MULTICAST IN NR	2022/07/20
2022/08292	EXTENDED RELEASE PLASTIC FORMULATION	2022/07/25
2022/08752	PAPER-BASED OR PAPERBOARD-BASED CONTAINER AND RELATED METHODS	2022/08/04
2022/08820	PRODUCING FLINT GLASS USING SUBMERGED COMBUSTION MELTING	2022/08/05
2022/09002	LIQUID FORMULATION OF GM-CSF FOR INHALATION	2022/08/11
2022/09004	A BOOM ARRANGEMENT FOR AN AGRICULTURAL SPRAYER, AGRICULTURAL SPRAYER, AND METHOD FOR OPERATING AN AGRICULTURAL SPRAYER	2022/08/11

Application Number	Patent Title	Filing Date
2022/09343	DYNAMIC ARTIFICIAL WAVE FACILITY FOR SURFING PRACTICE	2022/08/19
2022/09405	METHOD FOR PERFORMING WORKING USING OSMOSIS	2022/08/22
2022/09439	METHOD FOR PREPARATION OF HETEROCYCLICAMINE DERIVATIVES	2022/08/23
2022/11001	ROPE TENSIONING SYSTEM FOR DRILLING RIG	2022/10/07
2022/13470	LOW HYGROSCOPICITY ACTIVE POWDER COMPOSITIONS	2022/12/13
2023/01058	DEVICE FOR CHILLING OR FROSTING GLASSES	2023/01/24
2023/01527	SELF-RECHARGING STAND-ALONE MONITORING SYSTEM	2023/02/07
2023/01785	INHALER SYSTEM WITH OFFSET PIERCING	2023/02/14
2023/03396	AN IMPROVED APPARATUS AND METHOD FOR EXTRACTING ENERGY FROM A FLUID	2023/03/07
2023/03845	ENRICHED A-KID FOR AKMA AUTHENTICATION SERVICE	2023/03/27
2023/04151	IL-2/IL-15RBßY AGONIST FOR TREATING SQUAMOUS CELL CARCINOMA	2023/04/04
2023/04644	SUBSTITUTED N-(2-(2,6-DIOXOPIPERIDIN-3-YL)-1,3-DIOXOISOINDOLIN-5-YL)ARYLSULFONAMIDE ANALOGS AS MODULATORS OF CEREBLON PROTEIN	2023/04/21
2023/04707	DIRECT CURRENT CONVERSION SYSTEM	2023/04/24
2023/05438	METHODS OF TREATING DIABETES	2023/05/18
2023/05660	REACTION PRODUCT OF AN ORGANIC AMINE AND GLYCIDOL AND ITS USE AS A FRICTION MODIFIER	2023/05/25
2023/05699	COFFEE BREWING APPARATUS	2023/05/26
2023/06143	UV-VIS RADIATION CURABLE SECURITY INKS FOR PRODUCING DICHROIC SECURITY FEATURES	2023/06/09
2023/06146	UV-VIS RADIATION CURABLE SECURITY INKS FOR PRODUCING DICHROIC SECURITY FEATURES	2023/06/09
2023/06394	PLANT AND PROCESS FOR THE TREATMENT OF MEDICINAL WASTE	2023/06/20
2023/06419	A HOOKAH DEVICE	2023/06/21
2023/06765	LOGICAL CHANNEL PRIORITIZATION IN UNLICENSED SPECTRUM	2023/06/30

Application Number	Patent Title	Filing Date
2023/07141	INDIRECT HEAT EXCHANGER PRESSURE VESSEL WITH CONTROLLED WRINKLE BENDS	2023/07/17
2023/07255	MULTIFUNCTIONAL TRANSFORMER BOX	2023/07/20
2023/07422	SYSTEMS AND APPARATUSES FOR SOIL AND SEED MONITORING	2023/07/26
2023/07423	SYSTEMS AND APPARATUSES FOR SOIL AND SEED MONITORING	2023/07/26
2023/07424	SYSTEMS AND APPARATUSES FOR SOIL AND SEED MONITORING	2023/07/26
2023/07425	SYSTEMS AND APPARATUSES FOR SOIL AND SEED MONITORING	2023/07/26
2023/07426	SYSTEMS AND APPARATUSES FOR SOIL AND SEED MONITORING	2023/07/26
2023/07646	ANIMAL DATA COMPLIANCE SYSTEM AND METHOD	2023/08/02
2023/07758	SYSTEM AND METHOD FOR VIBRATION SEVERITY MEASUREMENT	2023/08/07
2023/07787	PRETOMANID AMORPHOUS FORM	2023/08/08
2023/07912	NOVEL ANTI-LAM AND ANTI-PIM6/LAM MONOCLONAL ANTIBODIES FOR DIAGNOSIS AND TREATMENT OF MYCOBACTERIUM TUBERCULOSIS INFECTIONS	2023/08/15
2023/07916	FORMULATION OF FUSION PROTEIN INCLUDING EXTRACELLULAR DOMAIN OF ALPHA SUBUNIT OF IGE FC RECEPTOR	2023/08/15
2023/08021	ANTI-CTLA4 ANTIBODIES AND METHODS OF MAKING AND USING THE SAME	2023/08/18
2023/08076	METHOD FOR DECOLORING OF A TEXTILE MATERIAL	2023/08/21
2023/08156	SPUR WHEEL SCRAPER	2023/08/23
2023/08267	LOCO-REGIONAL PERFUSION OF A KIDNEY	2023/08/28
2023/08268	LOCO-REGIONAL PERFUSION OF AN UNARRESTED BEATING HEART	2023/08/28
2023/08269	LOCO-REGIONAL PERFUSION OF A LIVER	2023/08/28
2023/08362	HEPATITIS B VACCINES AND USES OF THE SAME	2023/08/30
2023/08388	NASAL COMPOSITIONS COMPRISING ALCAFTADINE	2023/08/30
2023/08435	ANTIBODIES AGAINST HUMAN TSLP AND USE THEREOF	2023/08/31
2023/08519	ANTI-VEGF PROTEIN COMPOSITIONS AND METHODS FOR PRODUCING THE SAME	2023/09/05

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2023/08674	MODULE FOR USE IN PREPARING A PREFABRICATED STRUCTURE, METHOD FOR MANUFACTURING SAME AND TRANSPORT FRAME	2023/09/11
2023/10103	FREQUENCY MONITORING CIRCUIT AND METHOD FOR MONITORING THE FREQUENCY OF AN AC-SIGNAL	2023/10/30
2023/10632	TOP COVER FOR PROTECTING A BASE EDGE	2023/11/16
2023/11416	COMPUTER-IMPLEMENTED VISUAL QUERY MATCHING METHODS, AND SYSTEMS FOR IMPLEMENTING THEREOF	2023/12/12
2023/11519	HYBRID FIXED ANGLE ROTOR UNMANNED AERIAL VEHICLE WITH VERTICAL TAKEOFF AND LANDING CAPABILITIES	2023/12/14
2024/01753	COMPOSITE GROOVE PANEL, DOOR AND METHOD OF CONSTRUCTION	2024/02/29
2024/02223	ROTARY REGENERATIVE MACHINE STRUCTURE	2024/03/19
2024/03495	METHOD FOR TREATING A PETROL CONTAINING SULPHUR COMPOUNDS	2024/05/07
2024/03636	VALVE CYLINDER, IMPACT DEVICE AND METHOD	2024/05/10
2024/03762	APPARATUS AND METHOD OF TREATING THE INTERNAL SURFACES OF A TIMBER BARREL WITH AN ABRASIVE	2024/05/15
2024/03884	A MODIFIED TAIL PIECE	2024/05/20
2024/03947	AN INTERACTIVE ARTIFICIAL INTELLIGENCE-BASED RESPONSE LOOP TO A CYBERATTACK	2024/05/21
2024/03977	METHOD AND APPARATUS FOR CARRIER AGGREGATION	2024/05/22
2024/03978	SCHEDULING REQUEST AND RANDOM ACCESS TRIGGERING FOR SDT	2024/05/22
2024/04077	METHOD FOR PRODUCING LUBRICATING GREASES OF LITHIUM COMPLEX SOAPS AND LITHIUM-CALCIUM COMPLEX SOAPS	2024/05/24
2024/04172	SHEARING DEVICE, ARRANGEMENT AND USE	2024/05/28
2024/04177	METHOD FOR MEASURING VIBRATIONS OF A VIBRATION MACHINE	2024/05/28

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2024/04183	TREATMENT OF MAJOR DEPRESSIVE DISORDER	2024/05/28
2024/04290	ANTIMALARIAL AGENTS	2024/05/31
2024/04491	REUSABLE AND/OR RECYCLABLE SMART PACKAGING	2024/06/10
2024/04492	CONNECTED PACKAGING AND ASSOCIATED ACTIVATION METHOD	2024/06/10
2024/04762	A SYSTEM TO ENABLE MANAGEMENT OF AN EMPLOYMENT RELATIONSHIP BETWEEN AN EMPLOYER AND AN EMPLOYEE	2024/06/19
2024/05013	AUTOMATIC ESTIMATION OF POSITIONS OF BRACHYTHERAPY SEEDS	2024/06/26
2024/05226	ELECTRIC ARC FURNACE FOR MELTING METAL MATERIAL AND STEEL PLANT COMPRISING SAID ELECTRIC ARC FURNACE	2024/07/04
2024/05232	TRANSMISSION SYSTEM AND WIND POWER GENERATING SET	2024/07/04
2024/05259	BEAM FOR SCAFFOLD PLATFORMS, SCAFFOLD PLATFORM PLANE, METHOD FOR FORMING A SCAFFOLD PLATFORM PLANE, AND USE OF A BEAM	2024/07/05
2024/05332	A ROOFTOP TENT	2024/07/09
2024/05425	AUTOMOTIVE SNORKEL INCORPORATING AN AIR FILTRATION SYSTEM	2024/07/11
2024/05623	CAN END	2024/07/19
2024/05701	DISTRIBUTION MANIFOLD	2024/07/23
2024/05735	METHOD AND DEVICE FOR NON-DESTRUCTIVELY TESTING A CONNECTION POINT IN A COMPONENT ASSEMBLY	2024/07/24
2024/05825	AN ENHANCER FOR DELIVERY OF AEROSOL FROM A PRESSURIZED METERED DOSE INHALER (PMDI)	2024/07/29
2024/05832	DRILLING MACHINE WITH IMPROVED CAROUSEL LOADING DEVICE	2024/07/29
2024/05866	ROCK BOLT COMPONENT, A METHOD OF MANUFACTURING A ROCK BOLT COMPONENT AND A ROCK BOLT ASSEMBLY	2024/07/30
2024/05980	DEVICE AND METHOD FOR PROCESSING MATERIALS	2024/08/02
2024/05987	DRIVE ARRANGEMENT	2024/08/02
2024/05988	ORAL SOLID PREPARATION	2024/08/02
2024/06019	SOLID FORMS OF (S)-L-((2',6-BIS(DIFLUOROMETHYL)-[2,4'-	2024/08/05

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	BIPYRIDIN]-5-YL)OXY)-2,4-DIMETHYLPENTAN-2-AMINE AND SALTS THEREOF	
2024/06020	METHODS AND COMPOUNDS USEFUL IN THE SYNTHESIS OF AN AAK1 INHIBITOR	2024/08/05
2024/06021	AN ANTIFUNGAL COMPOSITION	2024/08/05
2024/06042	CLOSURE CAP	2024/08/06
2024/06051	IN-LINE SENSOR, MILKING CLUSTER AND ASSOCIATED METHODS	2024/08/06
2024/06073	A SPRAY BOOTH	2024/08/07
2024/06106	COATING TECHNOLOGY FOR PLASTIC CONTAINERS	2024/08/08
2024/06116	WIND TURBINE AND A WIND PARK COMPRISING SUCH A WIND TURBINE	2024/08/08
2024/06117	AN OXYGEN ENRICHED AIR BLOWN PILOT SCALE PRESSURIZED FLUIDIZED BED REFRACTORY LINED GASIFIER	2024/08/08
2024/06125	METHOD OF PRODUCING LIQUID HYDROCARBONS FROM A SYNGAS	2024/08/08
2024/06162	RUGGEDIZED SENSOR DEVICES WITH DECREASED LIGHT SCATTER AND ASSOCIATED SYSTEMS AND METHODS	2024/08/12
2024/06163	MOTOR DRIVING SYSTEM AND CONTROL METHOD FOR INVERTER DEVICE	2024/08/12
2024/06166	MOLD CASTING SURFACE COOLING	2024/08/12
2024/06167	CONTINUOUS PROCESS FOR THE OXIDATIVE LEACHING OF NICKEL	2024/08/12
2024/06204	METHOD FOR CONTROLLING HARMFUL ARTHROPODS OR HARMFUL NEMATODES USING ZOANTHAMINE ANALOG	2024/08/13
2024/06208	BRASSICA OLERACEA PLANTS RESISTANT TO DIAMONDBACK MOTH	2024/08/13
2024/06227	FREE STANDING FILM	2024/08/14
2024/06228	LOW PRESSURE GEAR PUMP	2024/08/14
2024/06321	NODE VISIBILITY TRIGGERS IN EXTENDED REALITY SCENE DESCRIPTION	2024/08/16
2024/06367	A METHOD FOR ASSESSMENT OF A HEMODYNAMIC RESPONSE TO AN ADENOSINE RECEPTOR AGONIST STIMULATION, SYSTEM FOR ASSESSMENT OF IT AND COMPUTER READABLE MEDIUM	2024/08/19

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2024/06368	AERATED COSMETIC COMPOSITION	2024/08/19
2024/06408	MUTANT L-THREONINE-RELEASING PROTEIN AND METHOD FOR PRODUCING L-THREONINE USING SAME	2024/08/21
2024/06409	VARIANT L-THREONINE EXPORT PROTEIN AND METHOD OF PRODUCING L-THREONINE USING SAME	2024/08/21
2024/06410	CONVEYANCE GUIDE DRIVE MECHANISM, PAPER SHEET CONVEYING DEVICE, METHOD FOR CONTROLLING PAPER SHEET CONVEYING DEVICE, AND PAPER SHEET HANDLING DEVICE	2024/08/21
2024/06415	ELECTRIC RESISTANCE WELDED STEEL PIPE OR TUBE AND PRODUCTION METHOD THEREFOR	2024/08/21
2024/06416	MUON DETECTOR FOR MUON TOMOGRAPHY	2024/08/21
2024/06417	IMPROVED THERMOPLASTIC CARBON PRECURSOR MATERIAL FOR APPLICATION IN COATING, BINDING, AND IMPREGNATION PROCESSES FOR THE MANUFACTURING OF ELECTRODES FOR STEEL AND ALUMINUM PRODUCTION AND BATTERIES	2024/08/21
2024/06418	CHROMANOL COMPOUNDS FOR TREATMENT OR PROPHYLAXIS OF AGEING-ASSOCIATED DISORDERS	2024/08/21
2024/06464	MULTI-LINK TRAFFIC INDICATION FOR MULTI-LINK DEVICE	2024/08/22
2024/06507	A CLEANSING COMPOSITION	2024/08/23
2024/06539	SYSTEMS AND METHODS FOR MANAGING ASSIGNMENTS OF TASKS FOR MINING EQUIPMENT USING MACHINE LEARNING	2024/08/26
2024/06547	A METHOD OF DETECTION OF A LANDMARK IN A VOLUME OF MEDICAL IMAGES	2024/08/26
2024/06550	ASSESSMENT OF MYOCARDIAL PERFUSION USING NON-INVASIVE MEASUREMENTS AND POROMECHANICS	2024/08/26
2024/06552	GLOBULAR NANOSTRUCTURES	2024/08/26
2024/06642	DEVICE FOR TREATING A FRACTURE	2024/08/28
2024/06650	METHOD FOR PRODUCING EXHAUST GAS PURIFICATION CATALYST	2024/08/28

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2024/06653	PYRIDAZINONE COMPOUND OR SALT THEREOF AND PEST CONTROL AGENT CONTAINING IT	2024/08/28
2024/06677	RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING	2024/08/29
2024/06688	CONSTRUCTION MACHINE HEEL SHROUD HAVING STRESS CONCENTRATION REDUCTION GEOMETRY AND ENHANCED DURABILITY	2024/08/29
2024/06693	DEVICE FOR SUSPENDING A BRIDLE AND USE OF A DEVICE	2024/08/29
2024/06695	AN ARTICLE COMPRISING A COMPOSITE COMPRISING GRAPHITE	2024/08/29
2024/07117	BACKWARD-COMPATIBLE INTEGRATION OF HARMONIC TRANSPOSER FOR HIGH FREQUENCY RECONSTRUCTION OF AUDIO SIGNALS	2024/09/17
2024/07453	A NOVEL NUTRACEUTICAL/THERAPEUTICAL COMPOSITION OF CINNAMIC ACID DERIVATIVES WITH SUCROSE ISOMERS	2024/09/30
2024/07616	CLOSURE CAP	2024/10/08
2024/07710	METHOD OF WELDING A STEEL SHEET COMPRISING TIB ₂ PRECIPITATES	2024/10/11
2024/07713	METHOD FOR HEATING A FURNACE	2024/10/11
2024/07715	A COLD ROLLED MARTENSITIC STEEL AND METHOD OF PRODUCING THEREOF	2024/10/11
2024/08007	FORGED PART OF STEEL AND A METHOD OF MANUFACTURING THEREOF	2024/10/23
2024/08008	SLIDER ASSEMBLY	2024/10/23
2024/08196	COMPOSITIONS COMPRISING METHYLXANTHINES AND DISACCHARIDES DERIVED FROM ENZYMATIC CONVERSION OF SUCROSE	2024/10/30
2024/08307	WATER QUALITY PREDICTION SYSTEM	2024/11/04
2024/08450	METHOD FOR MANUFACTURING PIG IRON INTO AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED SMELTING FURNACE	2024/11/07
2024/08494	A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND	2024/11/08

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	ASSOCIATED ELECTRICAL SMELTING FURNACE	
2024/08495	A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED FURNACE	2024/11/08
2024/08497	A METHOD FOR MANUFACTURING MOLTEN PIG IRON INTO AN ELECTRICAL SMELTING FURNACE	2024/11/08
2024/08498	HIGH MANGANESE HOT ROLLED STEEL AND A METHOD OF PRODUCTION THEREOF	2024/11/08
2024/09572	NEW ENERGY VEHICLE BATTERY PACK	2024/12/11
2024/09953	CONDUCTIVE LINE, TRANSFER DEVICE, AND SPACE SOLAR BEAM ENERGY TRANSPORTATION METHOD	2024/12/20
2025/00679	PALLET ARRANGEMENT	2025/01/21
2025/00728	MULTI-POSITION CONTROLLED AIRWAY VALVE, REFILLING DEVICE AND REFILLING SYSTEM	2025/01/22
2025/00851	PREPARATION PROCESS AND DEVICE OF POLYURETHANE COMPOSITE MATERIAL FOR AUTOMOBILE TIRE SOUND INSULATION SPONGE	2025/01/23
2025/01330	METHOD FOR PRODUCING AMINES	2025/02/12
2025/01360	IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS	2025/02/13
2025/01398	A TRAIN AND METHOD OF ADAPTING/OPERATING A TRAIN	2025/02/14
2025/01470	APPARATUS AND METHOD FOR MEASURING PARTICLE SIZE AND RELATED PARAMETERS OF SOLID PARTICLES IN A TURBULENT MULTIPHASE FLOW	2025/02/17
2025/01474	SUGARCANE GRASPING AND THROWING SYSTEM BASED ON VISION AND MECHANICAL ARM END EFFECTOR AND METHOD THEREOF	2025/02/17
2025/01494	KEY CONTROL SYSTEM AND METHOD	2025/02/18
2025/01502	ARC FAULT PROTECTION SYSTEM AND METHOD OF CONFIGURING AND/OR INITIALIZING AN ARC FAULT PROTECTION SYSTEM	2025/02/18
2025/01503	MODULAR ARC FAULT PROTECTION SYSTEM	2025/02/18
2025/01504	CENTRAL DEVICE FOR AN ARC FAULT PROTECTION SYSTEM	2025/02/18

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2025/01596	FREE-PISTON ENGINE	2025/02/20
2025/01624	COMPOSITION COMPRISING BIODEGRADABLE MICROCAPSULES	2025/02/21
2025/01656	BELT DRIVE SYSTEM FOR CENTRIFUGAL PUMP PRIMING ACCESSORIES	2025/02/24
2025/01701	METHOD AND APPARATUS OF INTERPOLATION FILTERING FOR PREDICTIVE CODING	2025/02/25
2025/01702	A ONE-PIECE DISPENSING CLOSURE	2025/02/25
2025/01724	PYRAZOLOPYRIMIDINE COMPOUND AND PHARMACEUTICAL USE THEREOF	2025/02/25
2025/01771	CORROSION-RESISTANT AND WEAR-RESISTANT STEEL PLATE AND MANUFACTURING METHOD THEREFOR	2025/02/26
2025/01802	BAR LOCK ASSEMBLY	2025/02/27
2025/01814	STEEL PLATE FOR BOX OF LARGE MINING DUMP TRUCK IN EXTREMELY COLD ZONE AND MANUFACTURING METHOD THEREFOR	2025/02/27
2025/01848	SCOOTER DELIVERY BOX	2025/02/28
2025/01858	DISPOSABLE WEARING ARTICLE	2025/02/28
2025/01884	METHOD FOR REDUCING NOX IN A NITRIC ACID PLANT DURING TRANSITORY EVENTS	2025/02/28
2025/01885	PAPER SHEET HANDLING DEVICE, GAME MACHINE MANAGEMENT DEVICE USING PAPER SHEET HANDLING DEVICE, AND DEGRADATION LEVEL DISPLAY METHOD FOR PAPER SHEET HANDLING DEVICE	2025/02/28
2025/01906	MASSAGE DEVICE FOR DAIRY COWS IN ANIMAL HUSBANDRY AND APPLICATION METHOD	2025/03/03
2025/01917	SLUDGE AND WASTE CONCRETE-BASED GREEN CONCRETE PREPARATION METHOD	2025/03/03
2025/01919	CATALYST SYSTEM HAVING A CATALYST NETWORK COMPRISING A NOBLE METAL WIRE FOR LONG CAMPAIGNS IN AMMONIA OXIDATION	2025/03/03
2025/01955	INSTRUCTION SENDING METHOD, INSTRUCTION RECEIVING METHOD, COMMUNICATION NODE, AND STORAGE MEDIUM	2025/03/04

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2025/01989	USER EQUIPMENT AND BASE STATION	2025/03/05
2025/02014	CLEARANCE ABNORMALITY DETECTION METHOD AND APPARATUS FOR WIND TURBINE GENERATOR SET	2025/03/05
2025/02036	INJECTION MOLDED SCREENING APPARATUSES AND METHODS	2025/03/06
2025/02041	HIGH LOADING ORAL FILM FORMULATION WITH IMPROVED BIOAVAILABILITY	2025/03/06
2025/02058	A METHOD OF EXTRACTING CANNABINOIDS FROM PLANT WAXES	2025/03/06
2025/02081	A SASH FRAME FOR A SIDE DOOR OF A VEHICLE	2025/03/07
2025/02086	STEPPED PUMPED STORAGE DEVICE	2025/03/07
2025/02138	SOLAR PANEL MOUNTING POSTS AND MOUNTING SYSTEM	2025/03/10
2025/02139	ANTI-THEFT SOLAR PANEL MOUNTING BRACKET	2025/03/10
2025/02153	SYSTEM AND METHOD FOR A SELF-SUSTAINING GRAPHITE FUEL MECHANISM	2025/03/11
2025/02173	SEA SURFACE TEMPERATURE PREDICTION METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND STORAGE MEDIUM	2025/03/11
2025/02196	SEAL ARRANGEMENT FOR DUCTING	2025/03/12
2025/02200	FILLER FOR TREATING ORBITAL DEPRESSION	2025/03/12
2025/02206	SYSTEM FOR STORING A RADIOACTIVE SALT SOLUTION	2025/03/12
2025/02244	STABILISING SYSTEM FOR SELF-PROPELLED OPERATING MACHINES	2025/03/13
2025/02247	SALINE-ALKALI SOIL COTTON SOWING, SEEDLING EMERGENCE AND SEEDLING PROTECTION METHOD BASED ON MOISTURE REGULATION AND TEMPERATURE INCREASE	2025/03/13
2025/02294	A SYSTEM FOR, AND A METHOD OF DEVELOPING A BRANDING STRATEGY	2025/03/14
2025/02302	TRKA (G667C) AND FLT3 TARGET INHIBITOR AND COMBINATION OF SAME WITH CHIDAMIDE	2025/03/14
2025/02303	DIAGNOSTIC TESTING APPARATUS AND SYSTEM	2025/03/14

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2025/02326	A TRANSITION BUS CONNECTING TERMINAL OF AN OUTLET TERMINAL OF A LOW-VOLTAGE MOLDED-CASE SWITCH	2025/03/17
2025/02337	WORD LEARNING METHOD AND SYSTEM BASED ON SYLLABLE SPELLING AND DIFFICULTY CLASSIFICATION	2025/03/17
2025/02361	RIBOSE-MODIFIED CAP ANALOG AND USE THEREOF	2025/03/18
2025/02406	A DECENTRALIZED SYSTEM USING BLOCKCHAIN WITH AI DRIVEN CHATBOT FOR AGRICULTURE ASSISTANCE	2025/03/19
2025/02432	CRYSTAL FORM AND AMORPHOUS FORM OF CAREBASTINE P-TOLUENESULFONATE	2025/03/19
2025/02448	POWER MONITORING DEVICE	2025/03/20
2025/02451	ANTIBODY SPECIFIC FOR MUCIN-1 AND METHODS OF USE THEREOF	2025/03/20
2025/02452	EST-SSR MOLECULAR MARKER, KIT AND IDENTIFICATION METHOD FOR IDENTIFYING MESONA CHINENSIS BENTH VARIETIES	2025/03/20
2025/02454	A KIT FOR RAPID DETECTION OF MINIMUM INHIBITORY CONCENTRATION OF ANTIBIOTIC AGAINST SELECTED BACTERIAL SPECIES	2025/03/20
2025/02495	A METHOD FOR SEEDLINGS CULTIVATION AND AFFORESTATION OF ATRAPHAXIS BRACTEATA	2025/03/24
2025/02498	MULTI-FUNCTIONAL PHOTOCATALYTIC REGENERABLE HYDROGEL AND ITS APPLICATION IN HOLLOW FIBER MEMBRANE SUPPORT SYSTEM FOR ORGANIC POLLUTANT REMOVAL	2025/03/24
2025/02511	A PORTABLE POSTPARTUM REHABILITATION DEVICE	2025/03/24
2025/02512	AN ION ADSORPTION TYPE RARE EARTH ORE PROSPECTING METHOD BASED ON A MULTI-COMPONENT COMPOSITE METALLOGENIC MODEL	2025/03/24
2025/02515	AN ORTHOPAEDIC CLINICAL HIP JOINT RECTIFICATION FIXATOR DEVICE	2025/03/24
2025/02545	AN ELECTROCHEMICAL PROCESS TO MONITOR MEMBRANE FOULING IN BIOREACTORS FOR WASTEWATER TREATMENT	2025/03/25

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2025/02551	A SAFETY WARNING DEVICE FOR PUBLIC PLACES	2025/03/25
2025/02552	AN ARTIFICIAL INTELLIGENCE MARKETING EXHIBITION STAND	2025/03/25
2025/02553	HISTORY-BASED RICE PARAMETER DERIVATIONS FOR WAVEFRONT PARALLEL PROCESSING IN VIDEO CODING	2025/03/25
2025/02657	FORMING SYSTEM AND FORMING METHOD FOR MAGNETIC LEVITATION SPATIAL CURVED BEAM	2025/03/27
2025/02700	METHOD FOR EXTRACTING POLYPHENOL FROM APPLE POMACE	2025/03/28
2025/02712	NOVEL CRYSTALLINE FORM OF ENAVOGLIFLOZIN, AND PREPARATION METHOD THEREFOR	2025/03/28
2025/02717	NOVEL CO-CRYSTAL OF ENAVOGLIFLOZIN	2025/03/28
2025/02740	A BODY FRAME OF A VEHICLE	2025/03/31
2025/02748	SEALING ARRANGEMENT FOR A FORM FILL SEAL MACHINE	2025/03/31
2025/02759	SIX-AXIS ROBOTIC ARM CONTROL METHOD FOR NUCLEAR POWER OIL INJECTION BASED ON DEPTH CAMERA	2025/03/31
2025/02760	SYSTEM AND METHOD FOR AUTOMATICALLY POSITIONING AND ADJUSTING MAGNETIC LEVITATION FUNCTIONAL PIECE OF TRACK BEAM	2025/03/31
2025/02790	A SAFETY WARNING DEVICE FOR ARTIFICIAL INTELLIGENCE APPLICATIONS	2025/04/01
2025/02791	OBSTACLE AVOIDANCE CONTROL METHOD AND SYSTEM FOR AIRCRAFT	2025/04/01
2025/02800	MULTIPLE-EFFECT MULTI-TRAIN DESALINATION (MEMTD) DEVICE	2025/04/01
2025/02804	ORAL PRODUCT COMPRISING THEOBROMINE	2025/04/01
2025/02805	STARTER DETONATOR	2025/04/01
2025/02806	BLASTING ACCESSORIES	2025/04/01
2025/02807	GRAVITATIONAL VAPOR COMPRESSOR DEVICE	2025/04/01
2025/02809	MAGNETIC LEVITATION TRACK BEAM, AND FORMING SYSTEM AND FORMING METHOD FOR MAGNETIC LEVITATION TRACK BEAM	2025/04/01

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2025/02812	SEGMENTATION SYSTEM FOR HIGH-RESOLUTION REMOTE SENSING IMAGE	2025/04/02
2025/02813	A FEED ADDITIVE FOR ENHANCING IMMUNITY OF TRIONYX SINENSIS AND PREPARATION METHOD THEREOF	2025/04/02
2025/02814	INTELLIGENT VENTILATION DEVICE FOR COAL MINE	2025/04/02
2025/02815	BRACKET-FREE ACOUSTIC EMISSION SENSOR AUXILIARY FIXING DEVICE AND USAGE METHOD	2025/04/02
2025/02816	EFFICIENT BROAD-SPECTRUM STERILIZING AGENT, PREPARATION METHOD AND APPLICATION THEREOF	2025/04/02
2025/02817	METHOD FOR IMPROVING FERTILIZER UTILIZATION EFFICIENCY IN LOW LATITUDE AND HIGH ALTITUDE ARID SOIL	2025/04/02
2025/02818	FINGER MUSCLE STRENGTH ASSESSMENT DEVICE CAPABLE OF SLIDING POSITIONING MEASUREMENT	2025/04/02
2025/02819	PREPARATION METHOD OF ASTRAGALUS MONGHOLICUS SOLID FERMENTATION PRODUCT AND APPLICATION OF ASTRAGALUS MONGHOLICUS SOLID FERMENTATION PRODUCT IN PREPARATION OF FEED ADDITIVE FOR REGULATING GROWTH AND DEVELOPMENT OF WEANED DONKEY FOALS	2025/04/02
2025/02820	AUTOMATIC CIRCUMFERENTIAL WELDING DEVICE FOR PIPELINE AND CIRCUMFERENTIAL WELDING METHOD	2025/04/02
2025/02823	AN EARLY PREDICTION SYSTEM FOR COPD BASED ON DATA ANALYSIS	2025/04/02
2025/02825	NANOZYME REACTOR	2025/04/02
2025/02854	MULTI-DIRECTIONAL ADJUSTABLE FIXING DEVICE FOR ACOUSTIC EMISSION SENSORS	2025/04/03
2025/02855	PREFABRICATED WALL PANEL	2025/04/03
2025/02856	OUTDOOR OPTICAL STORAGE AND CHARGING DEVICE	2025/04/03
2025/02857	TEMPERATURE EFFECT SIMULATION METHOD AND SYSTEM FOR ULTRA-HIGH BUILDINGS	2025/04/03

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2025/02858	COMPOUNDED OIL FIELD CORROSION INHIBITOR AND PREPARATION METHOD THEREOF	2025/04/03
2025/02859	METHOD FOR EXTRACTING CITRUS FLAVONOID	2025/04/03
2025/02860	COMPUTER DATA MINING DEVICE BASED ON BIG DATA	2025/04/03
2025/02861	PIPELINE CONNECTION DEVICE FOR WATER BALANCE TESTING	2025/04/03
2025/02862	EFFICIENT HEAT DISSIPATION AUTOMATION ELECTRICAL CONTROL BOX	2025/04/03
2025/02866	A SAFE AND EFFICIENT MINING METHOD FOR MEDIUM-THICK TO THICK LARGE ORE BODIES UNDER THE QUATERNARY SYSTEM	2025/04/03
2025/02867	A KIND OF DOUBLE-AXIS TILLING MIXER FOR HOMOGENIZATION OF POWDER WITH LARGE DENSITY DIFFERENCE	2025/04/03
2025/02868	A COMBINED DUST REDUCTION SYSTEM FOR A METAL MINE UNLOADING STATION AND A METHOD OF USING THE SAME	2025/04/03
2025/02869	A KIND OF WEAR-RESISTANT HIGH STRENGTH REDUCING AGENT FOR DRILLING FLUID AND ITS PREPARATION METHOD	2025/04/03
2025/02870	A NEW METHOD FOR RECONSTRUCTING THE FLOOD DISCHARGE SYSTEM IN TAILINGS PONDS	2025/04/03
2025/02893	KITCHEN WASTE SOLID-LIQUID SEPARATION SYSTEM	2025/04/04
2025/02914	CULTIVATION METHOD FOR MAINTAINING STABLE SUPPLY OF NITROGEN FERTILIZER IN LOW LATITUDE AND HIGH ALTITUDE ARID SOIL	2025/04/07
2025/02915	ABNORMAL VEHICLE MONITORING SYSTEM FOR EXPRESSWAY TUNNELS	2025/04/07
2025/02916	BIOLOGICAL AGENT FOR CONTROLLING ATRIJUGLANS HETAOHEI YANG AND ITS APPLICATION	2025/04/07
2025/02917	DYNAMIC EMERGENCY RESOURCE ALLOCATION METHOD FOR HAZARDOUS MATERIAL TRANSPORTATION NETWORKS INTEGRATING COMMUNITY DIVISION AND MEAN-VARIANCE OPTIMIZATION	2025/04/07

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2025/02918	STABLE-LOADING METHOD OF ENGINEERING MODULES	2025/04/07
2025/02919	PRIMER PAIR, PROBE AND METHOD FOR DETECTING BANANA STREAK VIRUS	2025/04/07
2025/02921	DEVICE, ANCHOR ROD AND METHOD FOR ENHANCING ANCHORING PERFORMANCE OF ANCHOR ROD	2025/04/07
2025/02923	A COPPER AMINE OXIDASE FROM SOPHORA TONKINENSIS GAGNEP., ITS GENE, AND ITS APPLICATION IN ENHANCING THE CONTENT OF MATRINE AND OXYMATRINE IN PLANTS	2025/04/07
2025/02924	FRUIT AND VEGETABLE IMAGE RECOGNITION SYSTEM OF SMART REFRIGERATORS BASED ON CONVOLUTIONAL NEURAL NETWORK AND METHOD THEREFOR	2025/04/07
2025/02925	HIGH-SPEED MANUFACTURING DEVICE FOR GRANULATED ICE	2025/04/07
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2025/02927	IMPACT ATTENUATION SYSTEM	2025/04/07
2025/02928	BOREHOLE MEASUREMENT METHOD AND SYSTEM	2025/04/07
2025/02941	NEW N-HETEROARYLBENZAMIDES DERIVATIVES AS FLT3 INHIBITORS	2025/04/07
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2025/02952	DRILLING SLUDGE WATER RECYCLING DEVICE	2025/04/08
2025/02953	BADMINTON SPORTS TRAINING EQUIPMENT	2025/04/08
2025/02954	ENVIRONMENT - ADAPTABLE TRAIN INTELLIGENT RISK - AVOIDANCE METHOD, DEVICE, AND TRAIN ONBOARD TERMINAL	2025/04/08
2025/02955	SYSTEM FOR HIGHWAY TRAFFIC FLOW PREDICTION BASED ON BIG DATA	2025/04/08
2025/02956	CULTIVATION METHOD FOR IMPROVING DROUGHT RESISTANCE OF LOW-LATITUDE	2025/04/08

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2025/02958	METHOD FOR REMEDIATING BANANA (MUSA SPP.) CONTINUOUS CROPPING OBSTACLE-AFFECTED SOIL	2025/04/08
2025/02959	OUTDOOR EFFICIENT WATER QUALITY POLLUTANT TOXICITY DETECTION DEVICE	2025/04/08
2025/02963	HIERARCHICAL TEXT CLASSIFICATION METHOD AND SYSTEM FOR CONFUSION OF FINE-GRAINED LABELS	2025/04/08
2025/02968	ASSEMBLED PEDESTAL AND METHOD	2025/04/08
2025/02994	PERMEABILITY IMPROVEMENT DEVICE AND METHOD	2025/04/09
2025/02995	COMPOSITE MICROBIAL AGENT AND USE THEREOF IN CONTROL OF PHYLLOTRETA STRIOLATA (FABRICIUS)	2025/04/09
2025/02996	METHOD FOR ESTIMATING EXPANSION OF STEEL SLAG MATERIAL BY INFRARED TEMPERATURE MEASUREMENT	2025/04/09
2025/02997	PRESSURE SENSOR ARRANGEMENT SYSTEM AND METHOD FOR HYDRODYNAMIC TESTING OF SMALL-DIAMETER PIPELINES	2025/04/09
2025/02998	THERMOPLASTIC POWDER COATING	2025/04/09
2025/02999	EDIBLE MUSHROOM CULTIVATION DEVICE CAPABLE OF MONITORING CARBON EMISSIONS	2025/04/09
2025/03000	LITHIUM BATTERY SAFETY CONTROL METHOD AND SYSTEM	2025/04/09
2025/03001	SAMPLING DEVICE FOR ENVIRONMENTAL ECOLOGICAL RESTORATION	2025/04/09
2025/03006	HIGH SPEED AIR-CUSHIONED VEHICLE	2025/04/09
2025/03013	HIGH-EFFICIENCY MULTIFUNCTIONAL MECHANICAL STIRRING DEVICE FOR METAL SMELTING	2025/04/09
2025/03016	BINDING COMPOSITION FOR ORE AGGLOMERATES	2025/04/09

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2025/03024	DYNAMIC MONITORING METHOD FOR SALT LAKE MINERAL RESOURCES	2025/04/10
2025/03025	ADAPTIVE INTELLIGENT GRAIN SAMPLING DEVICE	2025/04/10
2025/03026	AUTOMATIC SAMPLER	2025/04/10
2025/03027	TELESCOPIC MOVABLE SAMPLER	2025/04/10
2025/03028	AN APPARATUS FOR CREATING MICRO-PATTERNS ON SOLID SURFACES	2025/04/10
2025/03029	METHOD FOR CALCULATING EFFECTIVE HYDROLOGICAL CONNECTIVITY INTENSITY INDEX OF WETLAND BASED ON INSAR	2025/04/10
2025/03030	GRANULATION DEVICE FOR PRODUCING COMPOSITE MICROBIAL FERTILIZERS	2025/04/10
2025/03031	METHOD FOR MEASURING THE COMPLEXITY OF UML CLASS DIAGRAMS	2025/04/10
2025/03032	CONTROL DEVICE OF MULTIMODAL HUMAN-COMPUTER INTERACTION COLLABORATIVE IN COMPLEX AGRICULTURAL SCENE	2025/04/10
2025/03034	OXIDATIVE NITRATE HEAP LEACHING PROCESS	2025/04/02
2025/03068	A SETARIA ITALICA TAF10 GENE AND ITS CLONING METHOD AND APPLICATION	2025/04/10
2025/03069	A PREPARATION METHOD FOR FIBERBOARD SUITABLE FOR SUPER-LEVELING ELECTROSTATIC POWDER COATING	2025/04/10
2025/03070	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING LEUKOPENIA, ITS PREPARATION METHOD, AND APPLICATION	2025/04/10
2025/03071	AUTOMATED BLACKBOARD WRITING DEVICE FOR FRENCH TEACHING	2025/04/11
2025/03072	PRODUCT PROTECTION DEVICE BASED ON QUANTUM INFORMATION SAFETY	2025/04/11
2025/03074	MONITORING METHOD FOR DYNAMIC CHANGE PATTERNS OF MODERN SALT LAKE RESOURCE QUANTITIES	2025/04/11
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2025/03076	DREDGING DEVICE FOR WATER ENVIRONMENT ECOLOGICAL MANAGEMENT	2025/04/11

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2025/03078	UNIVERSAL POWER BAND FIXING DEVICE FOR A POWER RACK WITH AN ADDITIONAL LOCKING MECHANISM	2025/04/11
2025/03079	COMPATIBILITY DESIGN OF COMPOUND PLANT EXTRACT FOR IMPROVING MEAT QUALITY	2025/04/11
2025/03081	DISASTER ACCEPTABLE RISK THRESHOLD DEFINING METHOD BASED ON BUILDING SAFETY	2025/04/11
2025/03082	DYNAMIC ASSESSMENT METHOD FOR ECOLOGICAL RISK OF DEBRIS FLOW DISASTERS BASED ON MULTI SOURCE DATA COUPLING	2025/04/11
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2025/03124	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR COLITIS	2025/04/14
2025/03126	BAMBOO CEMENT PARTICLE BOARD AND MANUFACTURING METHOD THEREFOR	2025/04/14
2025/03127	CONSTRUCTION METHOD FOR BASEMENT FOUNDATION PIT WATERPROOF STRUCTURE	2025/04/14
2025/03129	METHOD AND SYSTEM FOR DYNAMIC MONITORING OF BRINE CHANGE CHARACTERISTICS DURING SALT LAKE MINING	2025/04/14
2025/03130	CARBON DOTS/PRUSSIAN BLUE NANOPHASE MATERIALS AND PREPARATION METHOD THEREOF AND APPLICATION THEREOF AS COLORIMETRIC-FLUORESCENT PROBE	2025/04/14
2025/03137	TRUNCATED RESPIRATORY SYNCYTIAL VIRUS F PROTEIN AND USE THEREOF	2025/04/14
2025/03155	METHOD FOR PREPARING CARBON QUANTUM DOTS FROM WASTE POLYURETHANE	2025/04/15
2025/03156	FOREIGN LANGUAGE TEACHING INTERACTIVE BOARD	2025/04/15
2025/03157	POWER TRANSMISSION DEVICE	2025/04/15
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2025/03160	SYSTEM AND METHOD FOR PRODUCING A COLORING AND FLAVORING SOLUTION	2025/04/15
2025/03163	UNMANNED AERIAL VEHICLE CLUSTER SYNCHRONIZATION METHOD BASED ON MULTI-SENSOR FUSION	2025/04/15
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2025/03201	SAFE UTILIZATION METHOD OF LIGHT AND MEDIUM POLLUTED FARMLAND SUITABLE FOR PLATEAU ALKALINE SOIL	2025/04/16
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2025/03269	MOF-DERIVED MNOX-CEO ₂ CATALYST AND ITS PREPARATION METHOD AND APPLICATION IN CATALYTIC OXIDATION OF TOLUENE	2025/04/17

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2025/03331	ENVIRONMENTAL MONITORING DEVICE FOR INTELLIGENT CONSTRUCTION	2025/04/21
2025/03335	PRELIMINARY SCREENING DEVICE FOR ADOLESCENT SCOLIOSIS BASED ON PLANTAR PRESSURE DETECTION	2025/04/22
2025/03337	APPLICATION METHOD FOR BROUSSONETIA PAPYRIFERA PELLETTED TMR DIET FORMULA IN FATTENING SHEEP PRODUCTION	2025/04/22
2025/03338	CARBON FIBER STEEL-LINED FULLY-WRAPPED HYDROGEN STORAGE CYLINDER	2025/04/22
2025/03339	A FIRE MONITORING METHOD IN HIGHWAY TUNNELS	2025/04/22
2025/03341	FE-MODIFIED PT/ZRO2 CATALYST AND PREPARATION METHOD THEREOF AND APPLICATION IN THE CATALYTIC DEGRADATION OF TOLUENE THEREOF	2025/04/22
2025/03342	GAS LEAKAGE MONITORING SYSTEM BASED ON INTERNET OF THINGS	2025/04/22
2025/03343	BLOCKCHAIN-BASED SECURITY AUDIT METHOD AND SYSTEM	2025/04/22
2025/03344	DETECTIVE ELEMENT OF NEURONAL PROTEIN AGGREGATE AND APPLICATION THEREOF	2025/04/22
2025/03345	CULTIVATION METHOD FOR PINELLIA TERNATA	2025/04/22
2025/03346	SN-GA/AT0.2H5 CATALYST, PREPARATION METHOD AND APPLICATION THEREOF	2025/04/22
2025/03349	IN-SITU SYNTHESIZED OF B/GA/IN/H5 MOLECULAR SIEVE AND PREPARATION METHOD AND APPLICATION THEREOF	2025/04/22
2025/03354	FLAVONOID-RICH BAMBOO WINE AND PREPARATION METHOD THEREFOR	2025/04/22

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2025/03355	FUNGICIDAL COMPOUND FORMULATION CONTAINING TEA TREE OIL, PREPARATION METHOD AND APPLICATIONS THEREOF	2025/04/22
2025/03356	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING OSTEOPOROSIS CAUSED BY BREAST CANCER TREATMENT AND/OR MENOPAUSE AND USE THEREOF	2025/04/22
2025/03357	SYSTEM FOR AI-ASSISTED IDENTIFICATION AND SYNTHESIS OF NOVEL DRUG CANDIDATES	2025/04/22
2025/03358	COMPACT EDGE-COMPACTING DEVICE WITH TRIPLE ANTI-COLLISION SYSTEM AND ASSOCIATED SUPPORTING EQUIPMENT	2025/04/22
2025/03361	APPLICATION OF CUCUMBER CSHSP17.8A GENE IN REGULATING HEAT RESISTANCE AND HIGH-TEMPERATURE AND HIGH-HUMIDITY COMBINED RESISTANCE	2025/04/21
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2025/03402	METHOD AND DEVICE FOR EVALUATING SEISMIC STABILITY OF SLOPE PROTECTION SYSTEMS ON BOTH SIDES OF RIVER	2025/04/23
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2025/03409	PREMIXED GROUTING MATERIAL FOR TUNNEL SECONDARY LINING CONCRETE AND FLOWING-TYPE PRODUCTION METHOD THEREOF	2025/04/23
2025/03481	SYSTEM FOR CLINICAL THINKING TRAINING ASSISTED BY ARTIFICIAL INTELLIGENCE FOR INQUISITION OF MEDICAL STUDENTS	2025/04/24
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2025/03485	DANCE APPARATUS FOR COORDINATED BALANCE AND FLEXIBILITY TRAINING	2025/04/24
2025/03486	COLD COMPRESS NURSING DEVICE FOR BONE AND JOINT CIRCULATION	2025/04/24
2025/03487	HOT-PRESSING AND PERFORATION PREPARATION PROCESS FOR GRAPHENE/SIO ₂ -BASED PRE-OXIDIZED FIBER FELT SOUND-ABSORBING MATERIAL FOR NOISE PROTECTION	2025/04/24
2025/03488	METHOD FOR MONITORING MULTI-MODAL CROSS-SCALE BLACK SOIL DEGRADATION	2025/04/24
2025/03525	AEROBIC EXERCISE APPARATUS FOR CARDIAC REHABILITATION OF CARDIOVASCULAR DISEASES	2025/04/25
2025/03526	PHARMACEUTICAL COMPOSITION CONTAINING WINE-PROCESSED SALVIA CHINENSIS COMBINED WITH CISPLATIN AND APPLICATION IN TREATING MALIGNANT TUMORS THEREOF	2025/04/25
2025/03527	USE OF INTERLEUKIN (IL)-17A INHIBITOR IN PREPARATION OF MEDICAMENT FOR TREATING INFLAMMATORY DISEASE	2025/04/25
2025/03528	AUTOMATED ANOMALY MONITORING SYSTEM BASED ON ARTIFICIAL INTELLIGENCE	2025/04/25
2025/03529	AUTOMATIC BOTTOM-SCRAPING AND BOTTOM GAS-TIGHTNESS TESTING METHOD FOR SINGLE-VALVE STEEL GAS CYLINDERS	2025/04/25
2025/03530	GRINDING AND POLISHING DEVICE AND METHOD FOR INNER SURFACE OF TUBULAR WORKPIECES	2025/04/25
2025/03532	DEVICE FOR PROTECTING COMPUTER APPLICATION DATA SAFETY	2025/04/25
2025/03534	INTELLIGENT AGRICULTURAL MANAGEMENT SYSTEM BASED ON INTERNET OF THINGS	2025/04/25

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2025/03535	COAL SPONTANEOUS COMBUSTION PREDICTING AND FORECASTING DEVICE FOR COAL MINE SAFETY MONITORING	2025/04/25
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2025/03543	AN ENZYME FRUIT VINEGAR RICH IN G-AMINOBUTYRIC ACID AND ANAEROBIC-AEROBIC COUPLING FERMENTATION METHOD THEREOF	2025/04/25
2025/03544	METHOD AND SYSTEM FOR EXTRACTING TRIPLE TEXT INFORMATION	2025/04/25
2025/03546	PIPELINE INSPECTION ROBOT	2025/04/25
2025/03547	PREPARATION METHOD FOR POLYPORUS UMBELLATUS SOUP, POLYPORUS UMBELLATUS EXTRACTUM, AND SOLID FORMULATION OF POLYPORUS UMBELLATUS	2025/04/25
2025/03551	REHMANNIA AND LYCIUM ROOT BARK DECOCTION WATER EXTRACT SOLUTION, REHMANNIA AND LYCIUM ROOT BARK DECOCTION WATER EXTRACT PASTE, REHMANNIA AND LYCIUM ROOT BARK DECOCTION PREPARATION AND PREPARATION METHOD THEREFOR, AND QUALITY CONTROL STANDARD FOR REHMANNIA AND LYCIUM ROOT BARK DECOCTION PREPARATION	2025/04/25
2025/03603	APPLICATION OF CALLICARPA NUDIFLORA EXTRACT IN BREEDING WEANED PIGLETS	2025/04/29
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2025/03606	DNA EXTRACTION METHOD OF PLANT LEAVES	2025/04/29
2025/03607	ADSORBENT FOR REMOVING ARSENATE FROM WASTEWATER, AND PREPARATION METHOD AND APPLICATION THEREOF	2025/04/29
2025/03608	ENHANCED ATTAPULGITE ADSORBENT WITH HIGH ANTIBACTERIAL EFFECT AND PREPARATION METHOD THEREOF	2025/04/29

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2025/03610	METHOD FOR SELECTING TEXT ANALYSES	2025/04/29
2025/03611	COMPUTER DEVICE FOR GENERATING A TEXT CORPUS	2025/04/29
2025/03612	COMPUTER DEVICE FOR GENERATING A TEXT CORPUS	2025/04/29
2025/03613	COMPUTER DEVICE FOR PRE-TRAINING, OR TRAINING, OR POST-TRAINING A CLASSIFICATION MODEL	2025/04/29
2025/03614	COMPUTER DEVICE FOR PRE-TRAINING, OR TRAINING, OR POST-TRAINING A CLUSTERING MODEL	2025/04/29
2025/03615	COMPUTER DEVICE FOR CLASSIFYING A TEXT ANALYSIS	2025/04/29
2025/03616	COMPUTER DEVICE FOR CLASSIFYING A TEXT ANALYSIS	2025/04/29
2025/03617	COMPUTER DEVICE FOR FORMING A DATABASE	2025/04/29
2025/03618	COMPUTER DEVICE FOR GENERATING A DATABASE QUERY	2025/04/29
2025/03619	PREDICTION METHOD FOR TITANIUM IRON ORE IN THE NORTHERN MARGIN OF QAIDAM BASIN BASED ON GEOLOGICAL BIG DATA AND SYSTEM THEREOF	2025/04/29
2025/03621	AUTONOMOUS DRIVING ASSISTANCE SYSTEM AND METHOD FOR VEHICLES	2025/04/29
2025/03622	PRIMER SET FOR MTHFR GENE POLYMORPHISM DETECTION AND APPLICATION THEREOF	2025/04/29
2025/03623	DISPOSABLE FLUSHING -SUCTION ORAL CARE SPUTUM SUCTION TUBE	2025/04/29
2025/03625	PREPARATION METHOD OF SPICED WALNUT KERNELS AND PRODUCT THEREOF	2025/04/29
2025/03626	SOAKING AND ROLLING PREPARATION PROCESS FOR MXENE-BASED GEOTEXTILE WAVE-ABSORBING MATERIAL FOR ELECTROMAGNETIC RADIATION PROTECTION	2025/04/29
2025/03627	INTRAVESICAL INSTILLSTION CHEMOTHERAPY DRUG AND APPLICATION FOR BLADDER CANCER	2025/04/29

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2025/03628	UNDERGROUND SPACE EVACUATION WARNING METHOD AND SYSTEM	2025/04/29
2025/03630	ELECTRIC DRIVE ASSEMBLY CAPABLE OF EFFICIENTLY REGULATING TEMPERATURE	2025/04/29
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2025/03636	AN AUTOMATED CEILING FAN CLEANING SYSTEM	2025/04/29
2025/03637	A PLANT DISEASE DETECTION AND AUTOMATED FERTILIZER PREPARATION SYSTEM	2025/04/29
2025/03638	AN AUTOMATIC RATION DISTRIBUTION SYSTEM	2025/04/29
2025/03639	UNMANNED AERIAL VEHICLE-BASED HYPERSPECTRAL CROP CLASSIFICATION METHOD	2025/04/29
2025/03689	A CRYPTOCURRENCY MINING FARM MONITORING SYSTEM	2025/04/30
2025/03690	A DECENTRALIZED TRANSACTION MANAGEMENT SYSTEM FOR SECURE ETHEREUM-BASED TRANSACTIONS	2025/04/30
2025/03691	A TRANSPORT VEHICLE DEMAND PREDICTION SYSTEM USING CONTEXT AWARE NEURAL NETWORKS	2025/04/30
2025/03692	A BLOCKCHAIN-BASED MESSAGING SYSTEM	2025/04/30
2025/03693	A BLOCKCHAIN-BASED NETWORK OPTIMIZATION SYSTEM FOR WORKSTATION NODES	2025/04/30
2025/03694	A WEARABLE ASSISTIVE DEVICE FOR VISUALLY IMPAIRED INDIVIDUALS	2025/04/30
2025/03695	AN INTEGRATED REAL-TIME AIR QUALITY MONITORING AND PREDICTION SYSTEM USING MACHINE LEARNING	2025/04/30
2025/03696	AN ETHEREUM BASED DONATION SYSTEM	2025/04/30
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2025/06908	INTEGRATED MAGNETIC SEPARATION APPARATUS	2025/08/19

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2025/07855	STEEL PART HAVING HIGH STRENGTH AND HIGH BENDABILITY	2025/09/15
2025/07863	STEEL PART HAVING HIGH STRENGTH AND HIGH BENDABILITY	2025/09/15
2025/08173	A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF	2025/09/25
2025/08637	RENEWABLE FUEL SYNTHESIS SYSTEM AND METHOD	2025/10/14
2025/08679	METHOD FOR ACQUIRING THREE-DIMENSIONAL SPATIAL POSITION AND ATTITUDE OF A SHIP HULL	2025/10/15
2025/08766	EQUIPMENT AND METHOD FOR ANALYSING INDIVIDUAL CHARACTERISTICS AND DETERMINING THE SEX OF BIRDS	2025/10/17
2025/08815	WIRELESS LOCAL AREA NETWORK SWITCHING METHOD AND RELATED DEVICE	2025/10/20
2025/08873	DATA ASSIMILATION-BASED PARAMETER OPTIMIZATION METHOD FOR DEEP-SHALLOW COUPLED THREE-DIMENSIONAL IN-SITU STRESS MODELS	2025/10/22
2025/08931	DYNAMIC EVALUATION METHOD FOR EXTREME RAINSTORM WATERLOGGING DISASTER RISK FOR DISASTER PREVENTION AND REDUCTION	2025/10/23
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DESIGNS

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A2024/00876	HAIR IRONS	2024/09/09
A2024/00877	HAIR IRONS	2024/09/09
A2024/01107	HAIR CLIPPER	2024/10/24
A2024/01133	GAS LIGHTER	2024/11/05
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A2025/00148	Seats for Vehicles	2025/02/11
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A2025/00217	Set of Earphones	2025/02/25
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A2025/00236	Sensor Pod for a Work Vehicle	2025/02/27
A2025/00238	Coffee Maker	2025/02/28
A2025/00276	INVERTER	2025/03/07
A2025/00277	GEARBOX COVER	2025/03/07
A2025/00278	GEARBOX COVER	2025/03/07
A2025/00279	GEARBOX COVER	2025/03/07
A2025/00280	GEARBOX COVER	2025/03/07
A2025/00281	GEARBOX COVER	2025/03/07
A2025/00376	BOTTLE	2025/04/04
A2025/00378	BOTTLE	2025/04/08
A2025/00380	BOTTLE	2025/04/08
A2025/00411	BUILDING BLOCK	2025/04/14
F2023/01468	GRINDER GEAR ARRANGEMENT	2023/12/21
F2024/00826	DEEP FEED TRENCHER POT	2024/08/26
F2024/01003	CUSHION	2024/10/03
F2024/01010	HARROW DISCS	2024/10/04
F2024/01080	FEEDME BREAD	2024/10/16
F2024/01379	STORAGE TANKS	2024/12/20
F2025/00131	FOLDABLE STORAGE TRAYS	2025/02/04
F2025/00134	FOLDABLE STORAGE TRAYS	2025/02/04
F2025/00147	Seats for Vehicles	2025/02/11
F2025/00149	Seats for Vehicles	2025/02/11
F2025/00150	Building Block	2025/02/11
F2025/00151	Building Block	2025/02/11
F2025/00154	Building Block	2025/02/11
F2025/00156	Building Block	2025/02/11
F2025/00208	Spray Selector	2025/02/21

Application Number	Design Articles	Filing Date
F2025/00209	Piston with Sealing Element	2025/02/21
F2025/00210	Cartridge Assembly	2025/02/21
F2025/00226	FENCE POST	2025/02/26
F2025/00230	Damp Proof Course	2025/02/26
F2025/00231	Weep Vent	2025/02/26
F2025/00232	Damp Proof Course	2025/02/26
F2025/00293	HARROW DISC PIECE	2025/03/11
F2025/00381	BOTTLE	2025/04/08

OFFICE PRACTICE NOTICES

NOTICE

COMPANIES AND INTELLECTUAL PROPERTY COMMISSION (CIPC)

Companies and Intellectual
Property Commission

a member of the dtic group

Taking into consideration that CIPC official office days are Mondays to Fridays and does not include week-ends or public holidays, notice is hereby given in terms of and for purposes of the Acts mentioned in the Schedule below, that CIPC will be closed to the public from **10h00 on Wednesday 24 December 2025 and will re-open on Monday 5 January 2026.**

The CIPC Offices at –

- a) the Department of Trade, Industry and Competition (the dtic) (77 Meintjies Street, Block F – Entfufukweni) in Sunnyside, Pretoria;
 - b) 1st floor, Office 103, Sancardia Building, 541 Madiba Street, Arcadia, Pretoria;
 - c) Norton Rose House No 8, Shop Number 3, Riebeeck Street, Thibault Square, Cape Town; and
 - d) CIPC Kiosk in Pavilion Shopping Centre in Jack Martens Drive in Westville,
- will re-open at 08h00 on Monday 5 January 2026.

The lodgment of documents and services of legal documents will be accepted on Tuesday 23 December 2025 until 15h30.

The days from Wednesday 24 December 2025 up to and including Friday 2 January 2026 will be regarded as *dies non* for purposes of the stated Acts.

CIPC offers different lodgment / filing methods for certain services to its customers. During this period, services processed by automated means will continue to be processed while those services which require back-office intervention / finalisation e.g. services which require scanned documents to be e-mailed to dedicated e-mail addresses or uploaded via electronic platforms e.g. New E-Services, will only resume from Monday 5 January 2026.

Please also take note that with regards to name reservations, all reserved names that would have lapsed between Wednesday 24 December 2025 up to and including Friday 2 January 2026, will now have their reservation dates moved forward to Monday 5 January 2026 and will, therefore, only elapse on that date.

SCHEDULE

Trade Marks Act, 1993
Patents Act, 1978
Design Act, 1993
Copyright Act, 1978
Companies Act, 2008
Close Corporations Act, 1984
Co-operatives Act, 2005
Registration of Copyright in Cinematograph Film Act, 1977

Kind regards.

Rory Voller
Commissioner: CIPC



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Taking into consideration that CIPC official office days are Mondays to Fridays and does not include week-ends or public holidays, notice is hereby given in terms of and for purposes of the Acts mentioned in the Schedule below, that CIPC will be closed to the public on **Friday 12 December 2025**.

The CIPC Offices at –

- a) the Department of Trade, Industry and Competition (the dtic) (77 Meintjies Street, Block F – Entfufukweni) in Sunnyside, Pretoria;
 - b) 1st floor, Office 103, Sancardia Building, 541 Madiba Street, Arcadia, Pretoria;
 - c) Norton Rose House No 8, Shop Number 3, Riebeeck Street, Thibault Square, Cape Town;
 - d) Talis House, No 17 Simmonds street, Cnr Main and Simmonds street, Marshalltown, Johannesburg; and
 - e) CIPC Kiosk in Pavilion Shopping Centre in Jack Martens Drive in Westville,
- will re-open at 08h00 on Monday 15 December 2025.

The lodgment of documents and services of legal documents will be accepted until 15:30 on Thursday, 11 December 2025.

The day 12 December 2025 will be regarded as *dies non* for purposes of the stated Acts.

CIPC offers different lodgment / filing methods for certain services to its customers. During this period, services processed by automated means will continue to be processed while those services which require back-office intervention / finalisation e.g. services which require scanned documents to be e-mailed to dedicated e-mail addresses or uploaded via electronic platforms e.g. New E-Services, will only resume from Monday 15 December 2025.

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Kind regards.

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