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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 2025/02/24 -

2025/01657 ~ Complete ~54:ANTI-HUMAN P40 PROTEIN DOMAIN ANTIBODY AND USE THEREOF
~71:AKESO BIOPHARMA, INC, No. 6 Shennong Road, Torch Development Zone, Zhongshan, Guangdong, 528437, People's Republic of China ~72: BAIYONG LI;PENG ZHANG;YU XIA;ZHONGMIN MAXWELL WANG~
33:CN ~31:201910706137.1 ~32:30/07/2019;33:CN ~31:201911040745.X ~32:29/10/2019;33:CN
~31:201911171754.2 ~32:25/11/2019

2025/01663 ~ Complete ~54:PIPERIDINYLPYRIDINYLCARBONITRILE DERIVATIVES AS INHIBITORS OF
GLUTAMINYL-PEPTIDE CYCLOTRANSFERASE AND GLUTAMINYL-PEPTIDE CYCLOTRANSFERASE LIKE
PROTEIN ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72:
BINDER, Florian Paul Christian;DAHMAN, Georg;HANDSCHUH, Sandra Ruth;REINDL, Sophia
Astrid;WILLWACHER, Jens;YANG HAMILTON, James Young Soo~ 33:EP ~31:22188580.9 ~32:03/08/2022

2025/01668 ~ Complete ~54:NON-INVASIVE MEASUREMENT SYSTEM FOR DIRECTIONAL FLOW VELOCITY
OF RAREFIED GAS ~71:LANZHOU INSTITUTE OF PHYSICS, Feiyan Street 100, Gaoxin Cheng Guan District,
Lanzhou, Gansu 730000, People's Republic of China ~72: CHEN, Jing;JI, Qianqian;LI, Detian;LI, Gang;LI,
Wenfeng;LI, Xingda;WANG, Yuandong;ZHANG, Huzhong~ 33:CN ~31:202411690512.5 ~32:23/11/2024

2025/01672 ~ Complete ~54:ANTI-KIT ANTIBODY FORMULATIONS AND METHODS ~71:CELLDEX
THERAPEUTICS, INC., 53 Frontage Road, Suite 220, Hampton, New Jersey, 08827, United States of America
~72: JOEL GOLDSTEIN;MAGDALENA GAUDEN~ 33:US ~31:63/369,644 ~32:27/07/2022

2025/01639 ~ Complete ~54:DOCUMENT GENERATION SYSTEM AND METHOD ~71:KRUGER, ADRIAAN, 4
The Old Fort Street, South Africa ~72: ADRIAAN, KRUGER~ 33:ZA ~31:2023/11305 ~32:08/12/2023

2025/01648 ~ Complete ~54:TEMPERATURE CONTROL DEVICE FOR A COMPUTER HOST ~71:Heilongjiang
Institute of Construction Technology, No. 999, Limin Development Zone, Harbin City, Heilongjiang Province,
People's Republic of China ~72: LI, Baochang;WANG, Rui~

2025/01653 ~ Complete ~54:SMALL NEEDLE KNIFE PIERCING AUXILIARY LOCATOR ~71:HUZHOU
COLLEGE, NO. 1 XUESHI ROAD, WUXING DISTRICT, HUZHOUCITY, People's Republic of China ~72: REN,
Haitao~

2025/01661 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING LUMBAR
DISC HERNIATION, SPONDYLOLISTHESIS, ANNULAR FIBROSUS RUPTURE AND VACUUM
PHENOMENON, CERVICAL VERTEBRAL HYPEROSTOSIS, STRAIGHTENING OF CERVICAL CURVATURE
AND KNEE MENISCUS TEAR, AND LIGAMENT INJURY, AND PREPARATION METHOD THEREOF
~71:WULAN, TuoYa, Room 301, Building 12, Beichen, Qilin Racecourse, Hohhot, People's Republic of China
~72: GERI, LeTu;LI, Feng;LI, Hua;NA, Sen;WULAN, TuoYa~

2025/01677 ~ Complete ~54:METHOD AND DOSE FOR FORMING AN OBJECT WITH A NATURAL FIBRE-BASED MATERIAL ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: ELEONORA BALDUCCI;FABRIZIO PUCCI;FIORENZO PARRINELLO;GIOVANNI MAZZOTTI~ 33:IT ~31:102022000019518 ~32:23/09/2022

2025/01682 ~ Complete ~54:SUBSTITUTED PYRIDOPYRIMIDINONES ~71:Mirati Therapeutics, Inc., Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: ALOIAU, Athenea Noelani Garden;BOBEK, Briana;BURNS, Aaron Craig;CADDELL-HAATVEIT, Kersti;HARWOOD, Stephen;IVETAC, Anthony David;JONES, Benjamin Donald;KETCHAM, John Michael;KUEHLER, Jon;LAWSON, John David;MARX, Matthew Arnold;PEARSON, Kelly Elaine;SMITH, Christopher Ronald;WANG, Xiaolun;WATKINS, Ashlee Hope~ 33:US ~31:63/401,507 ~32:26/08/2022

2025/01674 ~ Complete ~54:POLYMORPHIC FORM OF NEPICASTAT ACID ADDITION SALT, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:ASIERIS PHARMACEUTICALS (SHANGHAI) CO., LTD., 12F, Building 56, No.1000 Jinhai Road, City of Elite, Pudong New Area, Shanghai 201203, People's Republic of China;JIANGSU YAHONG MEDITECH CO., LTD., D-1009, New Drug Innovation Base, No. 1, Yaocheng Avenue, CMC Taizhou, Jiangsu, 225316, People's Republic of China ~72: LANPING ZHOU;MIAOHUAN XU;XIAOQING HE;YUSHEN GUO~ 33:CN ~31:202211129279.4 ~32:16/09/2022

2025/01658 ~ Complete ~54:HEAT EXCHANGER SYSTEM WITH CLOCK WISE AND COUNTER CLOCK WISE FLOW TYPE CONCENTRIC SPIRAL TUBE ~71:Dr. Satyendra Singh, Professor, Mechanical Engineering Department, B.T.K.I.T Dwarahat, Almora, Uttarakhand – 263653, India;SHIVALIK COLLEGE OF ENGINEERING DEHRADUN, SHIVALIK COLLEGE OF ENGINEERING DEHRADUN, SHINIWALA P.O. SHERPUR, SHESHAMBARA, NEAR HIMIGIRI ZEE UNIVERSITY SHIMLA BY PASS ROAD DEHRADUN, UTTARAKHAND - 248197, India;Shivsheesh Kaushik, Assistant Professor, Mechanical Engineering Department, Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand - 248197, India ~72: Dr. Satyendra Singh;Shivsheesh Kaushik~

2025/01659 ~ Complete ~54:DEVICE AND METHOD FOR DETECTING QUARANTINE WEED SEEDS ~71:Agricultural Genomics Institute, Chinese Academy of Agricultural Sciences, No. 97, Buxin Road, Dapeng New District, Shenzhen City, Guangdong Province, 518120, People's Republic of China;Northwest A&F University, College of Mechanical and Electronic Engineering, No. 22 Xinong Road, Yangling District, Xianyang City, Shaanxi Province, 712100, People's Republic of China ~72: CHEN Jun;CHEN Yu;HAN Nianlong;LIU Ze;QIANG Jianwei;QIAO Xi;ZHANG Shuo~ 33:CN ~31:202410692478.9 ~32:31/05/2024

2025/01665 ~ Complete ~54:COLLECTING SPORES WITH HYDROPHOBIC LIQUID AND CORRESPONDING USE OF COLLECTED SPORES ~71:THE UNIVERSITY OF AKRON, 302 E. Buchtel Common, Akron, United States of America ~72: JU, Lu-Kwang~ 33:US ~31:63/399,445 ~32:19/08/2022

2025/01667 ~ Complete ~54:METAL POWDER FOR ADDITIVE MANUFACTURING ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Laura DEL RIO FERNANDEZ;Manuel SÁNCHEZ PONCELA;Nestor GARCIA PEDROSO;Rosalia REMENTERIA FERNANDEZ~ 33:IB ~31:PCT/IB2022/060035 ~32:19/10/2022

2025/01687 ~ Provisional ~54:WIND FOCUSING APPARATUS FOR DRIVING WIND TURBINES ~71:ELLIOT JACK SHEVEL, 25 RIVONIA RD, ILLOVO, South Africa ~72: ELLIOT JACK SHEVEL~

2025/01641 ~ Complete ~54:DOUBLE-SCREEN TYPE HIGH-EFFICIENCY SCREENING DEVICE FOR CIVIL ENGINEERING SAND ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: CHEN Weili;FU Hao;GU Xiaoyong;LI Hui;ZHANG Yongcun~

2025/01646 ~ Complete ~54:PREFABRICATED VERTICAL PRESTRESSED SAFETY WARNING SIGNAL ANTI-SLIDE PILE ~71:Chongqing Polytechnic University of Electronic Technology, No. 76, Daxuecheng East Road, Shapingba District, Chongqing City, 401331, People's Republic of China ~72: Tian Wang;Yu Peng~

2025/01655 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE BOILING DEVICE FOR TREATING BRUCellosis ~71:INNER MONGOLIA MINZU UNIVERSITY, NO. 536, WEST HUOLINHE STREET, HORQIN DISTRICT, TONGLIAO CITY, People's Republic of China ~72: BAI, Li;LIU, Mingyuan;LIU, Xin;WANG, Hui;WANG, Xingya;ZHAI, Jingbo~

2025/01671 ~ Complete ~54:METHODS OF TREATING GRAVES' DISEASE USING ANTI-FCRN ANTIBODIES ~71:IMMUNOVANT SCIENCES GMBH, Viaduktstrasse 8, Switzerland ~72: MACIAS, William;SALZMANN, Peter;SCHRIER, Lauren;TEDESCHI, Philip~ 33:US ~31:63/374,649 ~32:06/09/2022;33:US ~31:63/500,233 ~32:04/05/2023

2025/01676 ~ Complete ~54:CHANNEL STATE INFORMATION REPORTING TECHNIQUES ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, Shenzhen, Guangdong, 518057, People's Republic of China ~72: BO GAO;LING YANG;MINQIANG ZOU;SHUJUAN ZHANG;XIAOLONG GUO~

2025/01683 ~ Complete ~54:ANTIGEN BINDING PROTEINS AND USES THEREOF ~71:GlaxoSmithKline Intellectual Property Development Limited, GSK Medicines Research Centre, Gunnels Wood Road, STEVENAGE SG1 2NY, UNITED KINGDOM, United Kingdom ~72: CORDY, Joanna;GOMEZ LORENZO, Maria De Gracia;GOUGH, Gerald~ 33:EP ~31:22382798.1 ~32:25/08/2022

2025/01633 ~ Provisional ~54:EXTRACTS OF SCHINUS MOLLE FOR USE IN TREATING RESPIRATORY CONDITIONS ~71:SEFAKO MAKGATHO HEALTH SCIENCES UNIVERSITY, Molotlegi Street, Ga-Rankuwa, Gauteng, 0204, South Africa ~72: LESIBA T LEKGOATHI;STANLEY S GOLOLO;VUYISILE S THIBANE~

2025/01635 ~ Provisional ~54:HYDRATION ACTIVATED GROWTH BABY . ~71:Deen Neilon, 535, Welthagen Street, Hercules, Pretoria, 0030, South Africa;Ridwaan Deen Zain Neilon, 535, Welthagen Street, Hercules, Pretoria, 0030, South Africa;Zain Neilon, 535, Welthagen Street, Hercules, Pretoria, 0030, South Africa ~72: Ridwaan Deen Zain Neilon~

2025/01649 ~ Complete ~54:CONCRETE SAMPLING AND TESTING DEVICE FOR CIVIL ENGINEERING ~71:Heilongjiang Institute of Construction Technology, No. 999, Limin Development Zone, Harbin City, Heilongjiang Province, People's Republic of China ~72: LI, Baochang;WANG, Rui~

2025/01650 ~ Complete ~54:ASSEMBLED DETERMINATOR FOR WATER CONSERVANCY PROJECT DETECTION ~71:XIZANG ZHENGXIN ENGINEERING TESTING TECHNOLOGY CO., LTD, NO. 7, LAQING WEST 2ND ROAD, ZONE B, LHASA ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, People's Republic of China ~72: CUI, Han;HE, Qiansheng;LI, Xiuyan;WANG, Xiaolong;YU, Debin;ZHOU, Liang~

2025/01652 ~ Complete ~54:WIRELESS POWER TRANSMISSION-BASED VIBRATION SENSOR ~71:CHAMPION MOBILE GLOBAL LTD, Ridge View, Wellgreen Lane, Kingston-Upon-Lewes, United Kingdom ~72: KHAN, Saad Saleem;OMAR, Muhammad;ROBINSON, Justyna;SIDDIQUE, Husnain;USMAN, Muhammad;ZESHAN, Muhammad~

2025/01660 ~ Complete ~54:DEVICE FOR TESTING PERFORMANCE OF SWITCHING POWER SUPPLIES ~71:Anhui Technical College Of Mechanical and Electrical Engineering, 16 Wenjin West Road, Yijiang District, Wuhu City, Anhui Province, 241002, People's Republic of China ~72: LI Fei;LIU Xuan;WANG Guoyi;WU Xiang;ZHANG Xiaorong;ZU Ting~ 33:CN ~31:2024117601998 ~32:03/12/2024

2025/01664 ~ Complete ~54:PRODUCING FUNGAL SPORES BY SOLID-STATE FERMENTATION ~71:THE UNIVERSITY OF AKRON, 302 E. Buchtel Common, Akron, United States of America ~72: JU, Lu-Kwang;SUMON, Ahsanul Kabir~ 33:US ~31:63/399,460 ~32:19/08/2022

2025/01678 ~ Complete ~54:APPARATUS AND METHOD FOR MAKING MOULDED PRODUCTS ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: DAVIDE ZANOTTI;ELEONORA BALDUCCI;FABRIZIO PUCCI;FIORENZO PARRINELLO;FRANCESCO PIRAZZOLI;GIOVANNI MAZZOTTI~ 33:IT ~31:102022000019536 ~32:23/09/2022

2025/01685 ~ Complete ~54:NAPHTHYRIDINE COMPOUNDS FOR INHIBITION OF RAF KINASES ~71:EnLiven Inc., 6200 Lookout Rd., First Flr., BOULDER 80301, CO, USA, United States of America ~72: KINTZ, Samuel;LYSSIKATOS, Joseph P.;REN, Li~ 33:US ~31:63/373,543 ~32:25/08/2022;33:US ~31:63/386,447 ~32:07/12/2022;33:US ~31:63/512,540 ~32:07/07/2023

2025/01636 ~ Provisional ~54:SYSTEM AND METHOD FOR INTEGRATED AI AND BLOCKCHAIN-BASED EMERGENCY RESPONSE AND SUPPORT PLATFORM ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: KABELO DIALE~

2025/01643 ~ Complete ~54:PILE DRIVER WITH HIGH STABILITY ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: CHEN Weili;FU Hao;GU Xiaoyong;LI Hui;ZHANG Yongcun~

2025/01644 ~ Complete ~54:VAGINAL FUNCTION EXERCISER ~71:Suzhou Dongquan Biotechnology Co., Ltd., Unit C, 4/F, Building 4, Modern Industrial Square, No. 333 Xingpu Road, Suzhou Industrial Park, Suzhou, Jiangsu, 215127, People's Republic of China ~72: Bin WEN;Binhui ZHU;Rong HAN~ 33:CN ~31:2024119870397 ~32:31/12/2024

2025/01656 ~ Complete ~54:BELT DRIVE SYSTEM FOR CENTRIFUGAL PUMP PRIMING ACCESSORIES ~71:CORNELL PUMP COMPANY LLC, 16261 Southeast 130th Avenue, Clackamas, Oregon, 97015, United States of America ~72: BRANDON YODER;JORDAN A HALL;JORDAN RUSSELL WHITE~ 33:US ~31:63/572,431 ~32:01/04/2024

2025/01670 ~ Complete ~54:POLYATOMIC MOLECULE DIRECTIONAL FLOW GENERATING DEVICE ~71:LANZHOU INSTITUTE OF PHYSICS, Feiyan Street 100, Gaoxin Cheng Guan District, Lanzhou, Gansu 730000, People's Republic of China ~72: CHEN, Jing;LI, Detian;LI, Wenfeng;LI, Xingda;MA, Zhuoya;WANG, Jin;ZHANG, Huzhong;ZHOU, Chao~ 33:CN ~31:202411189534.3 ~32:28/08/2024

2025/01675 ~ Complete ~54:METHOD, SYSTEM, AND DEVICE TO PROCESS PLANTS AND REMOVE COMPONENTS THEREFROM ~71:S.S. STEINER INC, 725 Fifth Avenue, 23rd floor, New York, New York, 10022, United States of America ~72: PAUL MERRITT;ROBERT GROENEVELD~ 33:US ~31:63/403,205 ~32:01/09/2022

2025/01679 ~ Complete ~54:APPARATUS AND METHOD FOR FRESH AIR COOLING OF A RESIDENCE OR BUILDING UTILIZING A THERMOSTAT ~71:INTEGRITY CIRCUITS LLC, 7510 SW 101st Ave., Beaverton, United States of America ~72: SULLINS, Jason~ 33:US ~31:17/895,355 ~32:25/08/2022

2025/01686 ~ Provisional ~54:GRAVE CLOSURE UNIT "GCU" ~71:JEROME ADELBERT BRITTON, 2 GERANIUM STREET, ENNERDALE EXT 8, South Africa ~72: JEROME ADELBERT BRITTON~

2025/01673 ~ Complete ~54:ELECTRONIC DEVICE AND METHOD FOR INDICATING NON-SCHEDULING LAYER IN FRONTHAUL INTERFACE ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-

gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: HYOUNGJIN LIM;JONGHO OH;KYUNGSIK MIN;WONJUN HWANG~ 33:KR ~31:10-2022-0104606 ~32:22/08/2022;33:KR ~31:10-2022-0109529 ~32:30/08/2022

2025/01680 ~ Complete ~54:METHODS OF TREATING CHRONIC INFLAMMATORY DEMYELINATING POLYNEUROPATHY USING ANTI-FCRN ANTIBODIES ~71:IMMUNOVANT SCIENCES GMBH, Viaduktstrasse 8, Switzerland ~72: MACIAS, William;SALZMANN, Peter;SCHRIER, Lauren;TEDESCHI, Philip~ 33:US ~31:63/374,644 ~32:06/09/2022

2025/01684 ~ Complete ~54:METHOD AND SYSTEM FOR RECOVERY OF METALS FROM SPENT LITHIUM ION BATTERIES ~71:AGR Lithium Inc., 2700 Post Oak Blvd, Suite #2100, HOUSTON 77056, TX, USA, United States of America ~72: CHADHA, Nishchay;NAIK, Amol;SINGH, Rupesh;TYAGI, Vipin~ 33:US ~31:63/400,938 ~32:25/08/2022

2025/01632 ~ Provisional ~54:BUNDLED FUNERAL SERVICING ~71:Umqhele Legal Consultants, 140 West Street, Sandton, 2090, South Africa ~72: Funerals South Africa Propreitary Limited~

2025/01634 ~ Provisional ~54:A PUNNET ~71:ZIBO CONTAINERS (PTY) LIMITED, 10 Rubicon Street, Saxenburg Park, South Africa ~72: SMIT, Deleria~

2025/01638 ~ Complete ~54:METHOD FOR PREPARING POROUS CONCRETE STRUCTURE BY 3D PRINTING OF CONCRETE ~71:JILIN JIANZHU UNIVERSITY, NO. 5088, XINCHENG STREET, People's Republic of China ~72: CAO, Mengshu;FANG, Juan;WANG, Li;XI, Jiaxin~

2025/01640 ~ Complete ~54:WORKING SET PARTITIONING METHOD AND SYSTEM ~71:ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY, NO. 1501 MOUNT HUANGSHAN AVENUE, BENGBU, People's Republic of China ~72: GE, Hua;JIA, Bingjing;LI, Xiangyun;PAN, Hua;QIU, Haiquan;WANG, Chuan'an~

2025/01662 ~ Complete ~54:SELF-REPAIRING MATERIALS INCLUDING SPORES FOR CONCRETE REPAIR AND OIL-BASED PROTECTION OF SPORES ~71:THE UNIVERSITY OF AKRON, 302 E. Buchtel Common, Akron, United States of America ~72: JU, Lu-Kwang;SUMON, Ahsanul Kabir~ 33:US ~31:63/399,454 ~32:19/08/2022;33:US ~31:63/401,869 ~32:29/08/2022

2025/01666 ~ Complete ~54:HOSE LOOM ARRANGEMENT AND METHOD OF MANUFACTURE THEREOF ~71:MTC CONTRACTORS PTY LTD, 206 Gamgee Rd, Bracalba, Australia ~72: HUNTER, Robert~ 33:US ~31:63/393,338 ~32:29/07/2022

2025/01669 ~ Complete ~54:COMPOSITE GAUGE TUBE FOR WIDE-RANGE VACUUM MEASUREMENT ~71:LANZHOU INSTITUTE OF PHYSICS, Feiyan Street 100, Gaoxin Cheng Guan District, Lanzhou, Gansu 730000, People's Republic of China ~72: LI, Bowen;LI, Gang;LI, Wenfeng;LI, Jingzhen;SONG, Yunjian;XI, Zhenhua;ZHANG, Huzhong;ZHANG, Kaixu~ 33:CN ~31:202411690838.8 ~32:23/11/2024

2025/01681 ~ Complete ~54:APPARATUS AND METHOD FOR INTEGRATING A PLURALITY OF FUEL CELL MODULES ~71:Solydera S.p.A., Via Trento, 115/117, (TRENTO) 38017, MEZZOLOMBARDO, ITALY, Italy ~72: BERTOLDI, Massimo;CESCHINI, Sergio;LANER, Daniele~ 33:IT ~31:102022000019281 ~32:20/09/2022

2025/01637 ~ Provisional ~54:NUTRACEUTICAL COMPOSITION FOR COGNITIVE ENHANCEMENT AND ENERGY BOOST ~71:Talha Anwary, 25 Rust de Winter road, South Africa ~72: Talha Anwary~

2025/01642 ~ Complete ~54:PREPARATION DEVICE FOR HIGH-PERFORMANCE RECONSTITUTED BAMBOO COMPOSITE MATERIAL ~71:Jiangxi Academy of Forestry, Nanchang Economic and Technological

Development Zone, Nanchang City, Jiangxi Province, People's Republic of China ~72: HE, Mei;HU, Yu'an~
33:CN ~31:2025100195629 ~32:07/01/2025

2025/01645 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE ANAL AND INTESTINAL FUMIGATION AND
STEAMING DEVICE ~71:Inner Mongolia Medical University, No. 5, Xinhua Street, Huimin District, Hohhot City,
Inner Mongolia Autonomous Region, People's Republic of China ~72: Hailan Bao;Jie Zhang;Jionghui Wang;Peng
Yue;Pu Liu;Xiang Gao~

2025/01647 ~ Complete ~54:FLUORESCENT CARBON DOT AND APPLICATION THEREOF ~71:Henan
University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province,
People's Republic of China ~72: DING Mingjie;DU Furui;DU Wentao;LI Xiaoyan;LI Yinfeng;LU Bingxue~

2025/01651 ~ Complete ~54:VARIABLE CAPACITANCE VIBRATION SENSOR ~71:CHAMPION MOBILE
GLOBAL LTD, Ridge View, Wellgreen Lane, Kingston-Upon-Lewes, United Kingdom ~72: KHAN, Saad
Saleem;OMAR, Muhammad;ROBINSON, Justyna;SIDDIQUE, Husnain;USMAN, Muhammad;ZESHAN,
Muhammad~

2025/01654 ~ Complete ~54:ARTIFICIAL INTELLIGENCE MACHINE VISION IMAGE COLLECTING DEVICE
~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic
of China ~72: CHEN, Yong;LIU, Xiaohu~

- APPLIED ON 2025/02/25 -

2025/01709 ~ Complete ~54:A MODIFIED MELT GROWTH TECHNIQUE TO GROW ULTRATHIN SINGLE-
CRYSTALLINE FILM ~71:K.RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM,
TRICHY, TAMIL NADU, - 621112, India ~72: Ilango, Rengaraju;Kannan, Vadivelu;Madhesh, Ilango;Vishwapriyaa,
Kannan~

2025/01718 ~ Complete ~54:MOUNTING DEVICE FOR UNMANNED AERIAL VEHICLE AND UNMANNED
AERIAL VEHICLE ~71:CETC Wuhu General Aviation Industry Technology Research Institute Co., Ltd, Block B2,
Wanjiang Fortune Plaza, Jiujiang District, Wuhu City, People's Republic of China;WUHU INSTITUTE OF
TECHNOLOGY, No. 62, Yinhu North Road, Wuhu City, People's Republic of China ~72: LIU Yi;LV Wenjie;MEI
Yuan;Tang Yanzhe;Yin Tao~ 33:CN ~31:202510114511.4 ~32:24/01/2025

2025/01719 ~ Complete ~54:AN INTEGRIN ALPHA10 ANTIBODY DRUG CONJUGATE ~71:TARGINTA AB,
Medicon Village, Sweden ~72: CHMIELARSKA MASOUMI, Katarzyna;HUANG, Xiaoli;LUNDGREN ÅKERLUND,
Evy~ 33:EP ~31:22193257.7 ~32:31/08/2022

2025/01721 ~ Complete ~54:APPARATUS AND METHODS FOR STYLING HAIR ~71:JEMELLA LIMITED, 82
Dean Street, London, W1D 3SP, United Kingdom ~72: BEN AYSCOUGH;LIAM WRIGHT;RICHARD
GOLD;ROBERT WEATHERLY~ 33:GB ~31:2213086.8 ~32:07/09/2022

2025/01725 ~ Complete ~54:FISCHER-TROPSCH PRODUCTION OF HYDROCARBONS FROM CARBON
DIOXIDE THROUGH METHANOL ~71:BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED
KINGDOM, United Kingdom ~72: PATERSON, Alexander James;SUNLEY, John Glenn~ 33:EP ~31:22190318.0
~32:12/08/2022

2025/01732 ~ Complete ~54:METHOD AND DEVICE FOR SYNTHESIZING PYRIDINE WITH COMPOSITE
CATALYST ~71:ANHUI COSTAR BIOCHEMICAL CO., LTD., Red Sun Life Science Industrial Park, Dangtu
Economic Development Zone, Ma'anshan City, People's Republic of China ~72: Jin Wenjuan;Liu Min;Wei
Chenhong;Wu Canping;Yang Hongbing~ 33:CN ~31:2024104814638 ~32:22/04/2024

2025/01690 ~ Provisional ~54:MASONRY UNITS ~71:CEM BRICK MANUFACTURERS (PTY) LTD, 25 Rudolf Greyling Street, Estoire, South Africa ~72: SPINOLA, Manuel Chadinha~

2025/01720 ~ Complete ~54:METAL-DISSOLVING APPARATUS, PROCESSES, AND USES THEREOF ~71:HATCH LTD., 2800 Speakman Drive, Mississauga, Ontario, L5K 2R7, Canada ~72: AMREEN KHERA;DYLAN VAN DEN BERG;MAJID MALEKI;ROBERT JOHN FRASER;TOM PLIKAS~ 33:US ~31:63/392,641 ~32:27/07/2022;33:US ~31:17/979,350 ~32:02/11/2022

2025/01728 ~ Complete ~54:CRYSTALLINE FORMS OF 5-(3,4-DIFLUOROBENZYL)-8-((1R,4R)-4-METHYLCYCLOHEXYL)-6,9-DIOXO-2,5,8-TRIAZASPIRO[3.5]NONANE-2-CARBALDEHYDE ~71:Cytokinetics, Incorporated, 350 Oyster Point Blvd, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: CHUANG, Chihyuan;WANG, Xiaolin~ 33:IB ~31:2022/116765 ~32:02/09/2022

2025/01735 ~ Complete ~54:SCREW CAPTURE SYSTEM FOR CALCANEAL FRACTURE ~71:RLFA CONSULTANTS LTD, Suite 12c, St. Vincent's Private Hospital, Merrion Road, Dublin 4, D04 N2E0, Ireland ~72: FLAVIN, Robert~ 33:US ~31:63/402,962 ~32:01/09/2022

2025/01710 ~ Complete ~54:TABLET MOISTURIZER ~71:K.RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMIL NADU, - 621112, India ~72: Charu Prabha, Prasanna;Deepashree, Krishnamurthy;Muruganantham, Thangaraj;Nagarajan Ramanathan, Nagarajan~

2025/01712 ~ Complete ~54:YOGA MENTOR ~71:K.RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMIL NADU, - 621112, India ~72: ANANDHA KUMAR, TAMIL MANI;DEEPAN PRAKASH, SANKAR;Dr. MAHESHWARI, MURALI;KARTHICK, SANKAR;LAKSHMAN RAM, MUTHUKUMAR;RADHA, NATARAJAN~

2025/01715 ~ Complete ~54:A SYSTEM FOR PREPARING MELANIN PIGMENT FROM STREPTOMYCES FLAVOVIRIDIS AK-2 ISOLATED FROM RHIZOSPHERIC SOIL CURCUMA LONGA L. ~71:Dr Sandip Subhash Gare, Department of Microbiology, D. A. B. Naik Arts and Science College, Chikhali, Tal-Shirala, Dist-Sangli, Maharashtra - 415408, India;Dr. Abhijit Balasaheb Shinde, Department of Microbiology, D. A. B. Naik Arts and Science College, Chikhali, Tal-Shirala, Dist-Sangli, Maharashtra - 415408, India;Dr. Amol Mohan Patil, Department of Botany, Yashwantrao Chavan College of Science, Karad, Dist. Satara, Maharashtra - 415 124, India;Dr. Arati Prabhakar Kamble, Sadguru Gadage Maharaj College Karad District Satara Maharashtra - 415124, India;Miss Arti Sunil Zende, Krishna Institute of Allied Sciences, Krishna Vishwa Vidya-peeth, Malkapur Karad, Maharashtra - 415539, India;Miss Priyanka Pandurang Sandage, Sadguru Gadage Maharaj College Karad District Satara, Maharashtra India - 415124, India ~72: Dr Sandip Subhash Gare;Dr. Abhijit Balasaheb Shinde;Dr. Amol Mohan Patil;Dr. Arati Prabhakar Kamble;Miss Arti Sunil Zende;Miss Priyanka Pandurang Sandage~

2025/01722 ~ Complete ~54:METHODS OF TREATING FIBROMYALGIA WITH COMPOSITIONS COMPRISING PSILOCYBIN ~71:TRYP THERAPEUTICS INC., 301-1665 Ellis Street, Kelowna British Columbia, V1Y 2B3, Canada ~72: JAMES GILLIGAN;PETER GUZZO~ 33:US ~31:63/405,786 ~32:12/09/2022

2025/01724 ~ Complete ~54:PYRAZOLOPYRIMIDINE COMPOUND AND PHARMACEUTICAL USE THEREOF ~71:Japan Tobacco Inc., 1-1, Toranomom 4-chome, Minato-Ku, TOKYO 105-6927, JAPAN, Japan ~72: ADACHI, Kaoru;ITO, Shunya;OHBA, Yusuke;SAKURAI, Kentaro;SATO, Shimpei~ 33:JP ~31:2022-135949 ~32:29/08/2022;33:JP ~31:2023-027426 ~32:24/02/2023

2025/01726 ~ Complete ~54:RECOVERY OF CHLORINE FROM HYDROGEN CHLORIDE GENERATED IN CARBOCHLORINATION PROCESSES ~71:Kronos International, Inc., Peschstraße 5, LEVERKUSEN 51373, GERMANY, Germany ~72: MEDVED, Mitja;PIERAU, Thomas~

2025/01731 ~ Complete ~54:VEHICLE NAVIGATION SYSTEM ~71:MAHINDRA & MAHINDRA LIMITED, Mahindra Research Valley, Mahindra World City, Plot No:41/1, Anjur P.O., India ~72: KRISHNAN, Balamurugan;PALANIVELU, Prabakaran;RAGOTHAMAN, Umasankar;SIMON, Sujith;VANJIAPPAN, Kandhasamy Karthikeyan~ 33:IN ~31:202241049963 ~32:01/09/2022

2025/01733 ~ Complete ~54:APPARATUS AND METHOD FOR MEASURING BORE HOLE DEPTH ~71:AQUIRIAN TECHNOLOGY PTY LTD, Level 5, 190 St Georges Terrace, Perth, Australia ~72: PATCHING, Gregory;WRIGHT, Jonathan~ 33:AU ~31:2022902437 ~32:25/08/2022

2025/01736 ~ Complete ~54:MUTATED V-TYPE CRISPR ENZYME AND USE THEREOF ~71:BEIJING SYNSORBIO TECHNOLOGY CO., LTD., Room 601, 6th Floor, Building 8, Yard 18, Kechuang 13th Street, Beijing Economic And Technological Development Zone, Daxing District, People's Republic of China;BEIJING SYNSORTECH CO., LTD., Room 603, 6th Floor, Building 8, Yard 18, Kechuang 13th Street, Beijing Economic And Technological Development Zone, Daxing District, People's Republic of China;ZHEJIANG SYNSORBIO GENE TECHNOLOGY CO., LTD., Unit 124-6, Building D, Ke Chuang Yuan, 398 Ma Huan Road, Lihai Street, Yuecheng District, Shaoxing, People's Republic of China;ZHEJIANG SYNSORBIO TECHNOLOGY CO., LTD., Room 211-3, Building 1, 21 Haitian Road, Binhai New Area, Shaoxing, People's Republic of China ~72: CHEN, Chongjian;PAN, Weiye;SUN, Yang;YOU, Shenghao;ZHU, Pengyu~ 33:CN ~31:202211039436.2 ~32:29/08/2022

2025/01691 ~ Provisional ~54:A LOCATING SYSTEM ~71:O'CONNELL, Jonathan, 56 NEWTON ROAD, GANTS PLAZA, CAPE TOWN, 7140, SOUTH AFRICA, South Africa ~72: O'CONNELL, Jonathan~

2025/01700 ~ Complete ~54:BIDIRECTIONAL BOOM HINGE FOR BOOM SPREADER ~71:Salford Group Inc., 364018 McBeth Road Salford, Ontario, N0J 1W0, Canada ~72: Adam Peter LEHMAN;Bikramjeet SINGH;Chad Derek PASMA;Geof J. GRAY;Jacobus A. ROZENDAAL;John Mark AVERINK;Peter STOECKLI~ 33:US ~31:63/558,396 ~32:27/02/2024

2025/01706 ~ Complete ~54:AN ERGONOMIC GARDENING STOOL ~71:K.RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMIL NADU, - 621112, India ~72: ARAVIND CHOCKALINGAM, MUTHU GANESH;ASWAK, PUSHPARAJ;JANARTHANAN, TAMILVANAN;KARTHEESHWARAN, MURUGAN;RADHA, NATARAJAN;RAMYA, RAJENDRAN~

2025/01737 ~ Provisional ~54:TAMPER-PROOF PHYSICAL VOTING SYSTEM USING ATM DEVICES AND PHYSICAL NOTES ~71:JOHANNES STEPHANUS GREYLING, PLOT 38, SEEKOEIWATER, EMALAHLENI, South Africa ~72: JOHANNES STEPHANUS GREYLING~

2025/01734 ~ Complete ~54:BILLIARD TABLE AND STONE SLAB CONNECTOR THEREOF ~71:QIAO, Yuanxu, LIU, Jianli Building D26, Hongyu Villa, Beidaihe District Qinhuangdao, People's Republic of China ~72: QIAO, Yuanxu~ 33:CN ~31:202211069268.1 ~32:02/09/2022

2025/01692 ~ Provisional ~54:MINIMAL INVASIVE SURGERY (MIS) SCREW AND HEAD EXTENSION THEREFOR ~71:BECKER, Gert Stephanus, 1378b Breyer Avenue, Waverley, South Africa ~72: BECKER, Gert Stephanus~

2025/01698 ~ Complete ~54:SEEDLING-PICKING MECHANISM FOR RICE POT-SEEDLING TRANSPLANTERS ~71:Dehong Agricultural Technology Extension Center (Dehong Agricultural Science Research Institute), No. 163 Tuanjie Street, Mangshi, Dehong Prefecture, Yunnan Province, People's Republic of China ~72: AN Hua;CHEN Zhixiong;DENG Wei;DONG Shilong;DUAN Mingyue;GUAN Junjiao;HU Shikai;LANG Chengwei;XIA Zaixing;XIAN Yanxiang;XIAO Guangxiu;YANG Shuca;YU Xiaojun;ZHAO Jianfeng;ZHENG Yufeng~ 33:CN ~31:2024107978998 ~32:20/06/2024

2025/01701 ~ Complete ~54:METHOD AND APPARATUS OF INTERPOLATION FILTERING FOR PREDICTIVE CODING ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Jianle;FILIPPOV, Alexey Konstantinovich;RUFITSKIY, Vasily Alexeevich~ 33:US ~31:62/784,319 ~32:21/12/2018

2025/01705 ~ Complete ~54:SELF-CONTROLLED MOVABLE AGRICULTURAL PRODUCTION FACILITY ~71:GUAN, DeTian, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;LEI, YongQuan, Huigu 12 building, Spring City, Wuhua District, People's Republic of China;LI, HaiYan, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;LI, HaoTian, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;LI, JianDa, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;LI, SongYang, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;LI, XiaoLin, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;YAO, Qian, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;ZHOU, BaoGuo, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China ~72: GUAN, DeTian;LEI, YongQuan;LI, HaiYan;LI, HaoTian;LI, JianDa;LI, SongYang;LI, XiaoLin;YAO, Qian;ZHOU, BaoGuo~ 33:CN ~31:2025101040964 ~32:22/01/2025

2025/01711 ~ Complete ~54:A METHOD FOR FABRICATING AG NANOPARTICLE (NP) DECORATED B-GA2O3 NANOWIRE (NW) ON A SI-SUBSTRATE ~71:Heigrujam Manas Singh, Department of ECE, IIIT Manipur, Manipur, - 795002, India;LAISHRAM THOIBILEIMA CHANU, NIT SRINAGAR ECE DEPARTMENT HAZRATBAL SRINAGAR -190006, India;LEIMAPOKPAM SOPHIA DEVI, Centre For Nanotechnology, IIT Guwahati, Assam, India;Naorem Khelchand Singh, Department of Electronics and Communication Engineering, NIT Nagaland, Chümoukedima, Nagaland 797103, India;Shagolsem Romeo Meitei, Department of Electronics and Communication Engineering, NIT Andhra Pradesh, - 534101, India ~72: Heigrujam Manas Singh;LAISHRAM THOIBILEIMA CHANU;LEIMAPOKPAM SOPHIA DEVI;Naorem Khelchand Singh;Shagolsem Romeo Meitei~

2025/01695 ~ Complete ~54:COMPANION ROBOT FOR BLIND CHILDREN ~71:ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO.318, LIUHE ROAD, HANGZHOU, ZHEJIANG PROVINCE, 310023, People's Republic of China ~72: ZHANG Hui~ 33:CN ~31:202410497775.8 ~32:24/04/2024

2025/01727 ~ Complete ~54:COMBINATION OF DCC-3116 AND MAPKAP PATHWAY INHIBITORS FOR USE IN THE TREATMENT OF CANCER ~71:Deciphera Pharmaceuticals, LLC, 200 Smith Street, WALTHAM 02451, MA, USA, United States of America ~72: AL-ANI, Gada;BOGDAN, Madhumita;FLYNN, Daniel L.;REU, Fred J.;SHERMAN, Matthew L.;SMITH, Bryan D.;SOTO, Rodrigo Ruiz~ 33:US ~31:63/374,451 ~32:02/09/2022;33:US ~31:63/403,477 ~32:02/09/2022;33:US ~31:63/478,777 ~32:06/01/2023;33:US ~31:63/478,782 ~32:06/01/2023;33:US ~31:63/493,825 ~32:03/04/2023;33:US ~31:63/493,828 ~32:03/04/2023;33:US ~31:63/495,693 ~32:12/04/2023;33:US ~31:63/495,694 ~32:12/04/2023;33:US ~31:63/508,646 ~32:16/06/2023;33:US ~31:63/508,652 ~32:16/06/2023

2025/01730 ~ Complete ~54:SYSTEMS FOR VERTICAL EXCAVATION INSPECTION AND RELATED METHODS ~71:POINT LAZ EXPERTISE LASER MINIERE INC., 102-340 Avenue du Sous-Bois, Canada ~72: GRENIER, Alexandre;LAPOINTE, Nicolas~ 33:US ~31:63/369,463 ~32:26/07/2022

2025/01689 ~ Provisional ~54:AIR DISPLACEMENT DEVICE ~71:PETER JOHN HARRIS, NUMBER 1 LAGOON DRIVE, SALT ROCK, UMHLALI, South Africa ~72: PETER JOHN HARRIS~

2025/01694 ~ Provisional ~54:FORCED FLUX JUMP REACTOR CAUSING NON-LINEAR RESPONSE FOR SUPPRESSION OF HARMONICS/SUPRAHARMONICS ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2025/01696 ~ Complete ~54:METHOD FOR PREPARING ABELMOSCHI COROLLA FLAVONE MICROCAPSULE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: FU, Pengfei;HONG, Jun;LI, Bing;LU, Min;WANG, Dongmei;WANG, Yanhong~

2025/01703 ~ Complete ~54:CLOSURE FOR A CONTAINER ~71:POLYOAK PACKAGING (PTY) LTD, 90 Waterford Road, South Africa ~72: HUGO, Justin;LEHMANN, Daniel;TOSH, Trevor~

2025/01716 ~ Complete ~54:A METHOD FOR EXTRACTING RAMIE FIBERS FROM BOEHMERIA NIVEA PLANTS ~71:Ajay Tamta, Ministry of road transport and highways, C1/14 Humayun Road, 110003, New Delhi, India;Lokesh Pandey, Director, DL educational and hospitality services opc Pvt limited Aviral hights Bhima Vihar Dehradun, 248199, Uttarakhand, India ~72: Ajay Tamta;Lokesh Pandey~

2025/01723 ~ Complete ~54:TORQUE TUBE INTERFACE WITH BIFURCATED BEARING HOUSING ~71:Array Tech, Inc., 3901 Midway Place NE, ALBUQUERQUE 87109, NM, USA, United States of America ~72: KRAUTBAUER, Kevin;SCHUKNECHT, Nathan~ 33:US ~31:63/369,461 ~32:26/07/2022;33:US ~31:18/315,168 ~32:10/05/2023

2025/01729 ~ Complete ~54:MEASUREMENT SIGNAL PROCESSING METHOD AND APPARATUS ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CHENG, Xingqing;GAO, Lei;WANG, Yong~

2025/01693 ~ Provisional ~54:FALL ARREST ANCHORS ~71:ASCENTECH SAFETY CONSULTANCY CC, 31 Chiraz Street, South Africa ~72: ROODT, Louis~

2025/01697 ~ Complete ~54:A METHOD FOR MAKING SESAME MEAL-FLAVORED STEAMED BUNS ~71:Anhui Science And Technology University, No.9 Donghua Road, Fengyang County, Chuzhou City, Anhui province, People's Republic of China ~72: Li Peiyan;Li JingJun;Li Xianbao;Wang Xinyi;Wu XiaoWei;Zhen ZongYuan~ 33:CN ~31:2025101067721 ~32:23/01/2025

2025/01699 ~ Complete ~54:REFERENCE EXTRACT OF GUALOU NIUBANGTANG AND PREPARATION METHOD THEREOF ~71:Institute of Chinese Materia Medica China Academy of Chinese Medical Sciences, No. 16, Nanxiao Street, Inner Dongzhimen, Dongcheng District, Beijing, People's Republic of China;Linyi Hospital of Traditional Chinese Medicine, No.286 Wenlianghe Road, Lanshan District, Linyi City, Shandong Province, People's Republic of China;Linyi Medical Care and Health Industry Research Institute, No.286 Wenlianghe Road, Lanshan District, Linyi City, Shandong Province, People's Republic of China ~72: DU Xiyang;GAO Huimin;GONG Suqin;GU Xuezhu;LI Raorao;LUO Lu;YAO Li;ZHAI Deyin;ZHANG Peihui;ZHANG Wei;ZHANG Yiyi~ 33:CN ~31:2025101131569 ~32:24/01/2025

2025/01702 ~ Complete ~54:A ONE-PIECE DISPENSING CLOSURE ~71:ALBERTUS VENTER, 10 Dipdale Road, South Africa;ANTONIO MANUEL DE VEIGA MARTINS, 28 Highlands Road, South Africa;VINESH SINGH, 31 Orchid Gardens, 8 Dawnlea Road, South Africa ~72: MARTINS, Antonio Manuel De Veiga;SINGH, Vinesh;VENTER, Albertus~

2025/01704 ~ Complete ~54:A PRODUCTION APPARATUS FOR A DEGRADABLE COMPOSITE ABSORPTION CORE ~71:QINGDAO TYMUS MACHINERY TECHNOLOGY CO., LTD., Qingdao Textile Town

1109 Douloushan Road Qingdao West Coast, People's Republic of China ~72: CHEN, Bing;LI, Shenglin;LIU, Chao;MA, Jingliang;SONG, Ruihua~ 33:CN ~31:202510131418.4 ~32:06/02/2025

2025/01708 ~ Complete ~54:THREE-DIMENSIONAL LANDSLIDE DEFORMATION MONITORING METHOD BASED ON BEIDOU COMMUNICATION ~71:Henan University of Urban Construction, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: GAO Caiyun;GAO Ning;LIU Zhan;QU Qianlong;ZHAO Miaoxing;ZHENG Chongqi~

2025/01713 ~ Complete ~54:BEIDOU CONTINUOUS POSITIONING SYSTEM AND METHOD FOR LANDSLIDE GEOLOGICAL HAZARD MONITORING ~71:Henan University of Urban Construction, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: GAO Caiyun;GAO Ning;HU Xiaoguang;QU Qianlong;Yuan Hangzhe;ZHENG Chongqi~

2025/01717 ~ Complete ~54:A SYSTEM FOR CONVERTING XLS FILES TO VCARD ~71:K.RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMIL NADU, - 621112, India ~72: Guruprakash Kannan;Infant Raj, Irudayaraj;Jayakumar Viswa Guru Prasath;Karuthavana Mohamed Ilyas Mohamed Faaris;Mohamed Gani Mohamed Abu Bakkar;Neyveli Selvam Namasivayan~

2025/01707 ~ Complete ~54:AN INTEGRATED RE-CRISPING AND VACUUM SEALING DEVICE FOR ENHANCED SNACK PRESERVATION ~71:K.RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMIL NADU, - 621112, India ~72: Mohamed Faizal, Mohamed Kaleelullah;Mohamed Yahya Batcha, Mohideen Batcha~

2025/01714 ~ Complete ~54:AN AUTOMATED DRUG DISPENSER ~71:K.RAMAKRISHNAN COLLEGE OF ENGINEERING, NH-45, SAMAYAPURAM, TRICHY, TAMIL NADU, - 621112, India ~72: Aravind Chockalingam, Muthu Ganesh;Aswak, Pushparaj;Janarthanam, Tamilvanan;Kartheeswaran, Murugan;Muruganantham, Thangaraj;Nagarajan Ramanathan, Nagarajan~

2025/01741 ~ Complete ~54:HUMANIZED ANTIBODIES AGAINST C-KIT ~71:FORTY SEVEN, LLC, 333 Lakeside Drive, Foster City, United States of America ~72: LIU, Jie;SOMPALLI, Kavitha~ 33:US ~31:62/771,526 ~32:26/11/2018

- APPLIED ON 2025/02/26 -

2025/01744 ~ Complete ~54:RAPID DETECTION METHOD FOR RESISTANT CRABGRASS SEEDS ~71:Shantou Agricultural Sciences Research Institute, No.146 Zhongshan Road, Shantou, Guangdong, People's Republic of China;Shantou Polytechnic, Shantou Polytechnic, Haojiang District, Shantou, Guangdong, People's Republic of China ~72: BAI Ren'ao;LI Jie;LIU Na;WANG Shen;WU Junji;ZONG Tao~

2025/01763 ~ Complete ~54:PLATE FOR JOINING TWO END PORTIONS OF A CONVEYOR BELT, JOINING DEVICE COMPRISING AT LEAST ONE SUCH JOINING PLATE, AND ASSOCIATED STRIP OF JOINING PLATES ~71:FP BUSINESS INVEST, RUE MICHEL RONDET, ZI DU CLOS MARQUET, 42400 SAINT-CHAMOND, FRANCE, France ~72: DUBUY, Marie;GUILLEMET, Frédéric;TAVERNIER, Bernard~ 33:FR ~31:FR2207941 ~32:29/07/2022

2025/01768 ~ Complete ~54:COMBINATION THERAPIES FOR TREATMENT OF CANCER ~71:MedImmune, LLC, One MedImmune Way, GAITHERSBURG 20878, MD, USA, United States of America ~72: ACHOUR, Ikbel;ANDERTON, Judith;FREEMAN, Daniel J.;HAMMOND, Scott A.;KINNEER, Krista;LUHESHI, Nadia;OMAR, Bilal;PALMER, Doug;ZERON-MEDINA CUAIRAN, Jorge~ 33:US ~31:63/369,718 ~32:28/07/2022

2025/01776 ~ Complete ~54:TAU BINDING COMPOUNDS ~71:Voyager Therapeutics, Inc., 75 Hayden Ave., LEXINGTON 02421, MA, USA, United States of America ~72: CARTER, Todd;LIU, Wencheng;MCCLORY, James Bernard;MURRAY, Christopher Joseph;SAH, Dinah Wen-Yee;SHAH, Ishan Sanjeev~ 33:US ~31:63/406,924 ~32:15/09/2022;33:US ~31:63/448,913 ~32:28/02/2023

2025/01789 ~ Provisional ~54:MEGA ECO-LOCATOR GADGET FOR THE VISUAL IMPAIRED ~71:LIZAH TSAKANI MANZINI, 1533 SECTION E MAMELODI WEST MASHABANI STREET,, South Africa ~72: LIZAH TSAKANI MANZINI~

2025/01738 ~ Provisional ~54:A VEHICLE LIGHTING SYSTEM ~71:Heinrich Petrus Beeslaar, 3 Seaforth Lane Doonside, South Africa;Marilyn Fourie, 425 Kingsway 15 Cyndeb Doonside, South Africa ~72: Heinrich Petrus Beeslaar;Marilyn Fourie;Riaan Fourie~

2025/01740 ~ Provisional ~54:HUMAN CLIMATE CONTROL ~71:JACOBUS GIDEON LOUW, 56 MOORREES STREET, South Africa ~72: JACOBUS GIDEON LOUW~ 33:ZA ~31:ZA2025JL00001 ~32:19/02/2025

2025/01742 ~ Complete ~54:APPLICATION OF HSA_CIRC_0069443 IN PREPARING DRUGS FOR TREATING EARLY PREGNANCY LOSS ~71:PEOPLE'S HOSPITAL OF YINGDE CITY GUANGDONG PROVINCE, No.2 Jiaoyu East Road, Yingcheng Street, Yingde City, Qingyuan City, Guangdong Province, 513000, People's Republic of China ~72: LI, Baixue;LI, Chuncheng;LIANG, Peili;LIU, Zhipeng~ 33:CN ~31:202411942451.7 ~32:26/12/2024

2025/01747 ~ Complete ~54:MECHANICAL SURGE PROTECTOR PLUG ~71:DE WITT, Sarel Jacobus, Verdi St. 594, Constantia Park, South Africa ~72: DE WITT, Sarel Jacobus~

2025/01749 ~ Complete ~54:METHODS FOR ETHANOL-FREE MRNA PURIFICATION ~71:SANOFI PASTEUR INC., 1 Discovery Drive, Swiftwater, United States of America ~72: CALVOSA, Eric;CHAUDET, Nicolas;LECLERCQ, Arthur;LEPETITCOLIN, Alban~ 33:EP ~31:22315175.4 ~32:29/07/2022;33:EP ~31:23173491.4 ~32:15/05/2023

2025/01752 ~ Complete ~54:SMALL-SIZED CALCIUM CARBONATE PARTICLES IN NONWOVENS AND FILMS ~71:BERRY GLOBAL, INC., 101 Oakley Street Evansville, United States of America ~72: ESCHENBACHER, Frank;GARCIA PANO, Robert~ 33:US ~31:63/399,861 ~32:22/08/2022

2025/01753 ~ Complete ~54:LEAD-ACID BATTERY AND MANUFACTURE METHOD ~71:ARCACTIVE LIMITED, 128b Waterloo Road, New Zealand ~72: CHRISTIE, Shane;MCKENZIE, Stuart~ 33:NZ ~31:791937 ~32:30/08/2022

2025/01756 ~ Complete ~54:PYRAZOLO PESTICIDAL COMPOUNDS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: ADISECHAN, Ashokkumar;CHAUDHURI, Rupsha;DEFIEBER, Christian;HANDORE, Kishor;KOERBER, Karsten;MAITY, Pulakesh;VYAS, Devendra;WAKEHAM, Matthew, Charles, Linford;WINTER, Christian, Harald~ 33:EP ~31:22188207.9 ~32:02/08/2022

2025/01757 ~ Complete ~54:QOE MEASUREMENT COLLECTION IN NON-CONNECTED STATE ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DECARREAU, Guillaume;ELMALI, Ugur Baran;HE, Jing;WEGMANN, Bernhard~

2025/01760 ~ Complete ~54:INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND INFORMATION PROCESSING PROGRAM ~71:MIYAGAWA, Hidehisa, CITY HOMES MUSASHIKOGANEI

508, 9-7, HONCHO 6-CHOME, KOGANEI-SHI, TOKYO 184-0004, JAPAN, Japan ~72: MIYAGAWA, Hidehisa~
33:JP ~31:2022-137221 ~32:30/08/2022

2025/01762 ~ Complete ~54:AKT1 MODULATORS ~71:ALTEROME THERAPEUTICS, INC., 13480 Evening
Creek Drive North, Suite 450, United States of America ~72: BARTBERGER, Michael David;DNEPROVSKAIA,
Elena V.;FAN, Yi;MURPHY, Eric Anthony;ZHU, Xuefeng~ 33:US ~31:63/377,183 ~32:26/09/2022;33:US
~31:63/498,770 ~32:27/04/2023;33:US ~31:63/508,418 ~32:15/06/2023;33:US ~31:63/580,327
~32:01/09/2023;33:US ~31:63/582,697 ~32:14/09/2023

2025/01765 ~ Complete ~54:ANTIBODIES, ANTIBODY-DRUG CONJUGATES, PREPARATIONS AND USES
THEREOF ~71:MULTITUDE THERAPEUTICS INC., 101, 201, 301, 401, Unit 10, 159 Tianzhou Road, People's
Republic of China ~72: LIU, Shu-Hui;MENG, Xun;ZHANG, Yue~ 33:CN ~31:PCT/CN2022/126276
~32:19/10/2022

2025/01771 ~ Complete ~54:CORROSION-RESISTANT AND WEAR-RESISTANT STEEL PLATE AND
MANUFACTURING METHOD THEREFOR ~71:Baoshan Iron & Steel Co., Ltd., No.885, Fujin Road, Baoshan
District, SHANGHAI 201900, CHINA (P.R.C.), People's Republic of China ~72: DING, Jianhua;LI, Hongbin;LIU,
Zicheng;MEI, Feng;MIAO, Yuchuan~ 33:CN ~31:202210914393.1 ~32:29/07/2022

2025/01773 ~ Complete ~54:REAGENTS AND PROCESSES FOR REMOVING HEAVY METALS FROM
PHOSPHORIC ACID SOLUTIONS ~71:Cytec Industries Inc., 504 CARNEGIE CENTER, PRINCETON 08540, NJ,
USA, United States of America ~72: HIREMATH, Ravi Rajshekar;TOKMIC, Kenan;WANG, Kewei;ZHANG, Lei~
33:US ~31:63/403,326 ~32:02/09/2022

2025/01779 ~ Complete ~54:METHOD OF COMMUNICATION ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI
Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: GUEST, Ian William~ 33:ZA
~31:2022/10178 ~32:14/09/2022

2025/01780 ~ Complete ~54:ERDOSTEINE, SALTS, ENANTIOMERS OR METABOLITES THEREOF FOR USE
IN THE TREATMENT OF NOCIPLASTIC AND NEUROPATHIC PAIN STATES ~71:EDMOND PHARMA S.R.L.,
S.S. dei Giovanni, 131, 20037 Paderno Dugnano, Milano, Italy ~72: ALESSIA PASCALE;MASSIMO
ALLEGRI;NICOLETTA MARCHESI;STEFANO GOVONI~ 33:EP ~31:22188031.3 ~32:01/08/2022

2025/01784 ~ Complete ~54:WAVE POOL INCLUDING WAVE GENERATOR AND REEFS FOR FORMING
PLURALITY OF SURFABLE WAVES ~71:KELLY SLATER WAVE COMPANY, LLC, 3300 La Cienega Place, Los
Angeles, California, 90016, United States of America ~72: ADAM FINCHAM;CHRISTOPHER A
PHEBUS;HAROLD PORTILLO;MICHAL PIESZKA;ROBERT KELLY SLATER~

2025/01787 ~ Complete ~54:AUTO-LOCK OF AN AEROSOL PROVISION DEVICE ~71:RAI STRATEGIC
HOLDINGS, INC., 401 North Main Street, United States of America ~72: BROCKMUELLER,
Nicole;DAUGHERTY, Sean Allan~ 33:US ~31:63/371,972 ~32:19/08/2022

2025/01790 ~ Provisional ~54:VICE-GRID GRAVITY STORAGE 2.0 ~71:JUNIOR CHIMBOMA NKOSI, 283
BLOCK F4 NEW EESTERUS,, South Africa ~72: JUNIOR CHIMBOMA NKOSI~

2025/01770 ~ Complete ~54:ANTI-ROR1 CHIMERIC ANTIGEN RECEPTORS (CARS), CAR-NK CELLS AND
RELATED METHODS ~71:Caribou Biosciences, Inc., 2929 7th Street, Suite 105, BERKELEY 94710, CA, USA,
United States of America ~72: DEGAGNE, Emilie;DONOHOUE, Paul D.;EDWARDS, Leslie;GARNER,
Elizabeth;GONZALEZ, Rodolfo;HENNESSY, Erica;KANNER, Steven B.;VIDAL, Bastien~ 33:US ~31:63/377,810
~32:30/09/2022;33:US ~31:63/386,747 ~32:09/12/2022;33:US ~31:63/483,504 ~32:06/02/2023;33:US
~31:63/511,064 ~32:29/06/2023

2025/01781 ~ Complete ~54:A HOLLOW ROTO-MOULDED ARTICLE ~71:OMNI COMPOSITE TANK LIMITED, Suite 1603-04, 16/F One Exchange Square, 8 Connaught Place, Central, Hong Kong, People's Republic of China ~72: ADRIAN Y KONG;DANIEL CHRISTOPHER RODGERS;LUKE PHILIP DJUKIC;NIMAL KUMAR BALASUBRAMANI~ 33:AU ~31:2022902179 ~32:03/08/2022

2025/01783 ~ Complete ~54:MULTILAYER STRUCTURES AND VESSELS CONSTRUCTED THEREFROM ~71:OMNI COMPOSITE TANK LIMITED, Suite 1603-04, 16/F One Exchange Square, 8 Connaught Place, Central, Hong Kong, People's Republic of China ~72: DANIEL CHRISTOPHER RODGERS;LUKE PHILIP DJUKIC~

2025/01786 ~ Complete ~54:ACKNOWLEDGEMENT MANAGEMENT FOR COORDINATED ACCESS POINTS ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 16483, Sweden ~72: AMBEDE, Abhishek;DI TARANTO, Rocco;MAX, Sebastian;PETTERSSON, Charlie;WILHELMSSON, Leif~

2025/01788 ~ Complete ~54:PD-1 AGONIST ANTIBODIES ~71:OTSUKA PHARMACEUTICAL CO., LTD., 3-2-27 Otedori, Japan ~72: GREVING, Matthew P.;LIU, Gao;MOORE, Cody Allen;TAGUCHI, Alexander Tomoaki~ 33:US ~31:63/375,676 ~32:14/09/2022;33:US ~31:63/515,448 ~32:25/07/2023

2025/01921 ~ Complete ~54:CEMENTITIOUS REAGENTS, METHODS OF MANUFACTURING AND USES THEREOF ~71:TERRA CO2 TECHNOLOGY HOLDINGS, INC., 601 16th Street Suite C #324, Golden, United States of America ~72: LAKE, Donald John~ 33:US ~31:62/867,480 ~32:27/06/2019;33:US ~31:63/004,673 ~32:03/04/2020;33:US ~31:63/025,148 ~32:14/05/2020

2025/01739 ~ Provisional ~54:FURNACE TAPHOLE ARRANGEMENT ~71:TENOVA SOUTH AFRICA (PTY) LTD, Midrand Business Park, Building No 4, 563 Old Pretoria Road, Halfway House, Midrand, 1685, South Africa ~72: HUGO JOUBERT~

2025/01746 ~ Complete ~54:AN INTERNAL COMBUSTION ENGINE ~71:COMB7 (PTY) LTD, 2 Orchard Heights, South Africa ~72: SCHAURTE, Joseph Franz~

2025/01758 ~ Complete ~54:PRODRUGS OF SUBSTITUTED ERGOLINES ~71:SYNEX HOLDINGS BV, KARVEELWEG 20, 6222 NH MAASTRICHT, NETHERLANDS, Netherlands ~72: STRATFORD, Alexander;WILLIAMSON, James, Peter, Bernard~ 33:EP ~31:22188643.5 ~32:04/08/2022;33:EP ~31:22190617.5 ~32:16/08/2022

2025/01766 ~ Complete ~54:ANTI-CCR8 ANTIBODIES AND METHODS OF USE ~71:BeiGene Switzerland GmbH, Aeschengraben 27, BASEL 4051, SWITZERLAND, Switzerland ~72: CHEN, Yun;FANG, Ming;HUANG, Chichi;JIANG, Ming;JIANG, Wenbo;SUN, Hanzhi;TANG, Xiaoyan;WANG, Wenjie;WANG, Xitao;XUE, Liu;ZHANG, Jing~ 33:IB ~31:2022/110335 ~32:04/08/2022

2025/01772 ~ Complete ~54:A LIVE ATTENUATED SARS-COV-2 AND A VACCINE MADE THEREOF ~71:Freie Universität Berlin, Kaiserswerther Strasse 16-18, BERLIN 14195, GERMANY, Germany ~72: KUNEC, Dusan;OSTERRIEDER, Nikolaus;TRIMPERT, Jakob~ 33:EP ~31:22193939.0 ~32:05/09/2022;33:EP ~31:23175846.7 ~32:26/05/2023

2025/01777 ~ Complete ~54:COVERAGE ENHANCEMENT (CE) RANDOM ACCESS (RA) SIGNALING AND CONFIGURING ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: MYRBERG, Oskar;SEDIN, Jonas;SU, Ling~

2025/01782 ~ Complete ~54:A HOLLOW ROTO-MOULDED ARTICLE ~71:OMNI COMPOSITE TANK LIMITED, Suite 1603-04, 16/F One Exchange Square, 8 Connaught Place, Central, Hong Kong, People's Republic of China

~72: DANIEL CHRISTOPHER RODGERS;LUKE PHILIP DJUKIC;ROBERT ANDREW STUBBS~ 33:AU
~31:2022902178 ~32:03/08/2022

2025/01751 ~ Complete ~54:CRACK-RESISTANT BASALT FIBER GRILLE REINFORCED PAVEMENT
STRUCTURE ~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: GAO, Yanlong;LI, Wenkai;LIU, Jiaqi;SHAO, Jinggan;WANG, Baolin;WANG, Junchao;XIE, Xiangbing~
33:CN ~31:202420069625.2 ~32:11/01/2024

2025/01755 ~ Complete ~54:DUAL CONNECTIVITY ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610
ESPOO, FINLAND, Finland ~72: AWADA, Ahmad;GÜRSU, Halit Murat;KARABULUT, Umur;KORDYBACH,
Krzysztof;SELVAGANAPATHY, Srinivasan;SPAPIS, Panagiotis;STANCZAK, Jędrzej~ 33:GB ~31:2211539.8
~32:08/08/2022

2025/01759 ~ Complete ~54:DATA FORWARDING FOR DUAL CONNECTIVITY ~71:NOKIA TECHNOLOGIES
OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: AHMED, Ayaz;AWADA, Ahmad;GÜRSU, Halit
Murat;KARABULUT, Umur;KORDYBACH, Krzysztof;SPAPIS, Panagiotis~ 33:IN ~31:202241044886
~32:05/08/2022

2025/01743 ~ Complete ~54:METHOD FOR CONTROLLING ELEUSINE INDICA (L.) GAERTN. ~71:Shantou
Agricultural Sciences Research Institute, No.146 Zhongshan Road, Shantou, Guangdong, People's Republic of
China;Shantou Polytechnic, Shantou Polytechnic, Haojiang District, Shantou, Guangdong, People's Republic of
China ~72: BAI Ren'ao;LI Jie;LIU Na;WANG Shen;WU Junji;ZONG Tao~

2025/01748 ~ Complete ~54:A STUMP – CAMERA ASSEMBLY ~71:MEHTA, Mihir Jaykant, 13, WENFORD,
BROUGHTON, MILTON KEYNES MK10 7AN, BUCKINGHAMSHIRE, United Kingdom ~72: MEHTA, Mihir
Jaykant~

2025/01922 ~ Complete ~54:CEMENTITIOUS REAGENTS, METHODS OF MANUFACTURING AND USES
THEREOF ~71:TERRA CO2 TECHNOLOGY HOLDINGS, INC., 601 16th Street Suite C #324, Golden, United
States of America ~72: LAKE, Donald John~ 33:US ~31:62/867,480 ~32:27/06/2019;33:US ~31:63/004,673
~32:03/04/2020;33:US ~31:63/025,148 ~32:14/05/2020

2025/01778 ~ Complete ~54:AUTOMATED RECOMMENDATION SYSTEM ~71:MTN GROUP MANAGEMENT
SERVICES (PROPRIETARY) LIMITED, 216 - 14th Avenue, Fairland, South Africa ~72: BAJPAI, Ankur;BELL,
Michael Geoffrey;BHAWRA, Rizwan Haroon;MAHARAJ, Kavish~ 33:IN ~31:202221044616 ~32:04/08/2022

2025/01750 ~ Complete ~54:PYRAZOLYLSULFONAMIDE COMPOUNDS AND THEIR USE IN THERAPY
~71:HOTSPOT THERAPEUTICS, INC., One Design Center Place, Suite 19-600, United States of America ~72:
BI, Yingzhi;CARSON, Kenneth G.;DEGORCE, Sebastien Louis;HARRIMAN, Geraldine Cirillo;KUPER, Christian
Josef;LEWIS, Arwel;PALOMERO-VAZQUEZ, Maria Angel;THANGAPANDIAN, Sundarapandian;WHITTAKER,
Benjamin Paul~ 33:US ~31:63/401,490 ~32:26/08/2022

2025/01754 ~ Complete ~54:CHANNEL OCCUPANCY TIME SHARING FOR SIDELINK TRANSMISSION
~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: ABREU, Renato,
Barbosa;KIILERICH PRATAS, Nuno, Manuel;LIU, Jianguo;LIU, Yong;LUNTTILA, Timo, Erkki;SANCHEZ, Laura
Luque;VAN PHAN, Vinh;WILDSCHEK, Torsten;YU, Ling;ZHENG, Naizheng~

2025/01761 ~ Complete ~54:MULTIPLE CONDITIONAL CONFIGURATIONS FOR THE SAME HANDOVER
REQUEST ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: AWADA,

Ahmad;GÜRSU, Halit Murat;KARABULUT, Umur;KORDYBACH, Krzysztof;SPAPIS, Panagiotis~ 33:FI
~31:20225706 ~32:08/08/2022

2025/01764 ~ Complete ~54:METHODS OF SELECTING AND PRODUCING EUCALYPTUS PLANTS
RESISTANT TO PHYSIOLOGICAL DISTURBANCE ~71:FUTURAGENE ISRAEL LTD., P. O. Box 4224,
Israel;SUZANO S.A., Av. Professor Magalhaes Neto 1752, EDF. Lena Empresarial 10 Andar Salas 1010 e 1011,
Brazil ~72: AVISAR, Dror;NEVES GRACA, Rodrigo;RIFFEL KERBER, Magnus;WISNIEWSKI GONSALVES,
José Mateus~ 33:US ~31:63/397,000 ~32:11/08/2022

2025/01767 ~ Complete ~54:LARGE SCALE BIOREACTOR SYSTEM AND METHOD ~71:Amgen Inc., One
Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: BROTHERS,
Mark O.;CHOI, Min Kyu;HOGENSON, David C.;KALTENBRUNNER, Oliver;RANNEY, Jeffrey T.;ROSELAND,
John C.;SAWICKY, Thomsen P.;STIMPFL, Gregory S.~ 33:US ~31:63/404,033 ~32:06/09/2022

2025/01769 ~ Complete ~54:IRON ORE REDUCING AND MELTING APPARATUS AND METHOD ~71:Paul
Wurth S.A., 32, rue d'Alsace, LUXEMBOURG 1122, LUXEMBOURG, Luxembourg ~72: BANIASADI,
Mehdi;DELIKONSTANTIS, Evangelos;DIDELON, Fernand;JI, Jihong;KINZEL, Klaus Peter~ 33:DE ~31:10 2022
121 807.4 ~32:29/08/2022;33:LU ~31:LU502718 ~32:29/08/2022;33:LU ~31:LU502719 ~32:29/08/2022

2025/01774 ~ Complete ~54:EXATECAN-DERIVED TOPOISOMERASE-1 INHIBITORS PHARMACEUTICAL
COMPOSITIONS, AND USES THEREOF ~71:Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY
07065, NJ, USA, United States of America ~72: BACAUANU, Vlad;CHARATI, Manoj B.;JOHNSON, Rebecca
Elizabeth;LANG, Simon B.;QUIROZ, Ryan V.;SEGANISH, W. Michael;YANG, Song;ZEPEDA, Nancy S.~ 33:US
~31:63/403,515 ~32:02/09/2022;33:US ~31:63/421,844 ~32:02/11/2022;33:US ~31:63/488,007
~32:02/03/2023

2025/01745 ~ Complete ~54:SMART AUTOMATED PARKING SYSTEM USING QR CODE, CCTV
MONITORING, AND FOG COMPUTING ~71:Ashwini Jewalikar (Bundele), SCTR'S Pune Institute of Computer
Technology, Survey No. 27, Near, Trimurti Chowk, Bharati Vidyapeeth Campus, Dhankawadi, Pune,
Maharashtra, 411043, India;Dr. Anagha Vaidya, K B Joshi Institute of Information Technology, Rama
Purushottam Vidya Sankul, Karve Nagar, Pune, Maharashtra 411052, India;Dr. Shruti Bharadwaj, SCTR'S Pune
Institute of Computer Technology, Survey No. 27, Near, Trimurti Chowk, Bharati Vidyapeeth Campus,
Dhankawadi, Pune, Maharashtra, India;Kumari Deepika, SCTR'S Pune Institute of Computer Technology, Survey
No. 27, Near, Trimurti Chowk, Bharati Vidyapeeth Campus, Dhankawadi, Pune, Maharashtra, 411043, India;Ms.
Achala Raghvendra Deshpande, SCTR'S Pune Institute of Computer Technology, Survey No. 27, Near, Trimurti
Chowk, Bharati Vidyapeeth Campus, Dhankawadi, Pune, Maharashtra 411043, India;Ms. Pranali Rajendra
Navghare, SCTR'S Pune Institute of Computer Technology, Survey No. 27, Near, Trimurti Chowk, Bharati
Vidyapeeth Campus, Dhankawadi, Pune, Maharashtra 411043, India;Ms. Rekha Katarmal, Marathwada Mitra
Mandal's College of Commerce, 202/A, Deccan Gymkhana, Pune, Maharashtra 411004, India;Rajani R. Jadhav,
SCTR'S Pune Institute of Computer Technology, Survey No. 27, Near, Trimurti Chowk, Bharati Vidyapeeth
Campus, Dhankawadi, Pune, Maharashtra 411043, India ~72: Ashwini Jewalikar (Bundele);Kumari Deepika~

2025/01775 ~ Complete ~54:METHOD FOR PRODUCING A RAIL FASTENING, METHOD FOR INCREASING
THE VIBRATIONAL RESISTANCE OF A TENSION SPRING FOR HOLDING DOWN A TRACK BODY
ELEMENT, AND RAIL FASTENING ~71:voestalpine Railway Systems GmbH, Kerpelystraße 199, LEOBEN 8700,
AUSTRIA, Austria;voestalpine Turnout Technology Zeltweg GmbH, Alpinestraße 1, ZELTWEG 8740, AUSTRIA,
Austria ~72: HÖLZL, Wolfgang;MAYER, Thomas;OSSBERGER, Uwe~ 33:EP ~31:22020414.3 ~32:29/08/2022

2025/01785 ~ Complete ~54:METHODS FOR TREATING CANCER USING ANTI-CTLA4 ANTIBODIES
~71:ADAGENE PTE. LTD., 16 Raffles Quay, #33-03 Hong Leong Building, Singapore, 048581, Singapore ~72:

GUIZHONG LIU;JIPING ZHA;PETER PEIZHI LUO;SONGMAO ZHENG;XIAOHONG SHE~ 33:US
~31:63/402,247 ~32:30/08/2022

- APPLIED ON 2025/02/27 -

2025/01792 ~ Provisional ~54:TRIBUTE-SHARING SYSTEM ~71:TRIBWALL (PTY) LTD, 47 Aloe Crescent
Vredelust,, South Africa ~72: PHILLIP NKOSIVUMILE GIWU~

2025/01805 ~ Complete ~54:ROBUSTA COFFEE ORIGIN TRACEABILITY IDENTIFICATION METHOD BASED
ON MINERAL ELEMENTS ~71:SPICE AND BEVERAGE RESEARCH INSTITUTE, CHINESE ACADEMY OF
TROPICAL AGRICULTURAL SCIENCES, Xinglong Tropical Botanical Garden, Wanning City,
Shengzhixiaoxianjixingzhengqihua, Hainan, 571533, People's Republic of China ~72: AN, Na;HU, Lisong;HUANG,
Lifang;LIAO, Zhenyang;PENG, Xianrui;WANG, Xi'ao;WANG, Xiaoyang;YAN, Lin~ 33:CN ~31:202411754795.5
~32:02/12/2024

2025/01819 ~ Complete ~54:COMPOSITIONS FOR ORAL DELIVERY ~71:Eli Lilly and Company, Lilly Corporate
Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: ABURUB, Aktham;HUANG,
Siyuan;WALKER, Jennifer Marie~ 33:US ~31:63/373,776 ~32:29/08/2022

2025/01824 ~ Complete ~54:ADDITIVE-FREE CU ELECTROWINNING ~71:UMICORE, 31, Rue du Marais,
1000, Brussels, Belgium ~72: BART KLAASEN;JAN LUYTEN;WOUTER SCHUTYSER~ 33:BE ~31:2022/5827
~32:14/10/2022

2025/01804 ~ Complete ~54:METHODS FOR TREATING HEMOPHILIA A AND POPULATION
PHARMACOKINETICS TOOLS FOR DETERMINING TREATMENTS AND USES THEREOF ~71:BIOVERATIV
THERAPEUTICS INC., 225 Second Avenue, Waltham, Massachusetts, United States of America ~72:
BHAGUNDE, Pratik;KATRAGADDA, Suresh~ 33:US ~31:63/370,010 ~32:01/08/2022;33:US ~31:63/383,091
~32:10/11/2022;33:US ~31:63/485,418 ~32:16/02/2023

2025/01816 ~ Complete ~54:A GIP/GLP1 FOR USE IN THERAPY ~71:Eli Lilly and Company, Lilly Corporate
Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BENNEYWORTH, Brian David;RAZZOLI,
Elisa~ 33:US ~31:63/405,565 ~32:12/09/2022

2025/01822 ~ Complete ~54:DYNAMIC ABDOMINAL WALL TRACTION SYSTEM FOR OPEN ABDOMEN
WOUNDS ~71:SERVICIO CÁNTABRO DE SALUD, Avda. Cardenal Herrera Oria s/n, Spain ~72: CASTILLO
SUESCÚN, Federico~ 33:ES ~31:P202230710 ~32:01/08/2022

2025/01825 ~ Complete ~54:COMBINATION THERAPY ~71:ZEALAND PHARMA A/S, Sydmarken 11 2860
Søborg, Denmark ~72: JOLANTA SKARBALIENE;PER-OLOF ERIKSSON~ 33:EP ~31:22196432.3
~32:19/09/2022;33:EP ~31:22199281.1 ~32:30/09/2022

2025/01833 ~ Complete ~54:BILLIARD TABLE, TABLE CLOTH THEREOF, AND MOUNTING METHOD
~71:QIAO, Yuanxu, LIU, Jianli Building D26, Hongyu Villa, Beidaihe District Qinhuangdao, People's Republic of
China ~72: QIAO, Yuanxu~ 33:CN ~31:202210996653.4 ~32:19/08/2022

2025/01798 ~ Complete ~54:HOT COMPRESS PACK FOR INFLAMMATORY INFERTILITY DUE TO
FALLOPIAN TUBE OBSTRUCTION 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: Liying Tian;Shuqi Ye;Yingying
Chen;Yougang Wang~

2025/01836 ~ Provisional ~54:HYBRID EQUIPMENT BUNKER ~71:LYNETTE MAGASA, 407 ROAN CRESCENT, South Africa ~72: CHRISTOPHER JOHNSON~

2025/01797 ~ Complete ~54:A WALNUT MOXIBUSTION DEVICE FOR MYOPIA ~71:Anhui University of Chinese Medicine, No. 350 Longzihu Road, Xinzhan District, Hefei City, People's Republic of China;Hefei Comprehensive National Science Center Big Health Research Institute, No. 4090 Susong Road, Shushan District, Hefei City, People's Republic of China ~72: Gao Bing;Hu Jing;Li Lan;Liu Pan;Wang Jing;Xia Ran;Zhu Ling~ 33:CN ~31:2024105727656 ~32:10/05/2024

2025/01802 ~ Complete ~54:BAR LOCK ASSEMBLY ~71:A.L. HANSEN MANUFACTURING CO., 701 Pershing Road, Waukegan, Illinois, 60085, United States of America ~72: WILLIAM S HANSEN III~ 33:US ~31:63/559,594 ~32:29/02/2024

2025/01818 ~ Complete ~54:DETERMINATION OF A ROUTE IN AN UNDERGROUND WORKSITE FOR A MINING VEHICLE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: LIIKANEN, Henri;PUURA, Jussi;SIIVONEN, Lauri~ 33:EP ~31:22196731.8 ~32:20/09/2022

2025/01831 ~ Complete ~54:AN ELECTROWINNING CELL AND A CATHODE ~71:LOOP HYDROMETALLURGY PTY LTD, 86 Westmore Drive, West Pennant Hills, Australia ~72: RANDALL, Adam;SAMMUT, David~ 33:AU ~31:2022902129 ~32:28/07/2022

2025/01803 ~ Complete ~54:ASSAY FOR DETERMINATION OF FUNCTIONAL IMMUNITY AGAINST SALMONELLA ~71:SERUM INSTITUTE OF INDIA PRIVATE LIMITED, 212/2, Off Soli Poonawalla Road, Hadapsar, India ~72: CHAVAN, Avinash Bhanudas;GAVADE, Vinay Vijay;MALLYA, Asha Dinesh;SARGAR, Somnath Vasant~ 33:IN ~31:202421015098 ~32:29/02/2024

2025/01807 ~ Complete ~54:ORALLY DISINTEGRATING PHARMACEUTICAL TABLET CONTAINING CARIPRAZINE ~71:RICHTER GEDEON NYRT., Gyömrői út 19-21, Hungary ~72: KONTA, Melinda;SZAKONYI, Gergely~ 33:HU ~31:P2200312 ~32:05/08/2022

2025/01812 ~ Complete ~54:SPECIFICALLY MODIFIED RNAI REAGENT AND COMPOSITION ~71:Shanghai Argo Biopharmaceutical Co., Ltd., J2026, Room 1_203, 337 Shahe Road, Jiangqiao Town Jiading District, SHANGHAI 201803, CHINA (P.R.C.), People's Republic of China ~72: SHAO, Pengcheng Patrick;SHU, Dongxu~ 33:CN ~31:202211147122.4 ~32:20/09/2022

2025/01814 ~ Complete ~54:STEEL PLATE FOR BOX OF LARGE MINING DUMP TRUCK IN EXTREMELY COLD ZONE AND MANUFACTURING METHOD THEREFOR ~71:Baoshan Iron & Steel Co., Ltd., No. 885, FUJIN ROAD, Baoshan District, SHANGHAI 201900, CHINA (P.R.C.), People's Republic of China ~72: DING, Jianhua;JIAO, Sihai;LI, Hongbin~ 33:CN ~31:202210914190.2 ~32:29/07/2022

2025/01826 ~ Complete ~54:COMPOSITIONS FOR DELIVERY OF PLASMODIUM CSP ANTIGENS AND RELATED METHODS ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany ~72: ANJA DOKIC;ANNETTE VOGEL;ASAF PORAN;CHARLES JENNISON;DANIEL ABRAM ROTHENBERG;JOHN SROUJI;PATRICIA DOS SANTOS MEIRELES;STEPHANIE ERBAR;THORSTEN KLAMP;UGUR SAHIN~ 33:US ~31:PCT/US2022/044626 ~32:23/09/2022;33:US ~31:63/486,619 ~32:23/02/2023;33:US ~31:63/515,329 ~32:24/07/2023

2025/01799 ~ Complete ~54:RECOMBINANT NUCLEIC ACIDS ENCODING COSMETIC PROTEIN(S) FOR AESTHETIC APPLICATIONS ~71:Krystal Biotech, Inc., 2100 Wharton Street, Suite 701, PITTSBURGH 15203, PA, USA, United States of America ~72: AGARWAL, Pooja;KRISHNAN, Suma;PARRY, Trevor~ 33:US ~31:62/663,476 ~32:27/04/2018

2025/01806 ~ Complete ~54:METHOD AND DEVICE FOR PREPARING AND DISPENSING A POST-MIXED BEVERAGE ~71:HEINEKEN SUPPLY CHAIN B.V., Tweede Weteringplantsoen 21, Netherlands ~72: BAX, Bart Jan;BROUWER, Eric Richard;OTTO, Jeroen Frank;PAAUWE, Arie Maarten~ 33:EP ~31:22193719.6 ~32:02/09/2022

2025/01817 ~ Complete ~54:AN APPARATUS AND A METHOD FOR MONITORING A ROCK DRILLING RIG ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: LIIKANEN, Henri;PUURA, Jussi~ 33:EP ~31:22196739.1 ~32:20/09/2022

2025/01829 ~ Complete ~54:CABLE GLAND ~71:CMF PRODUCTS LIMITED, 11 Glasshouse Street, St Peters, Newcastle upon Tyne, Tyne and Wear, NE6 1BS, United Kingdom ~72: JONATHAN MAKARI;LEE FRIZZELL~ 33:EP ~31:22201976.2 ~32:17/10/2022;33:EP ~31:23169237.7 ~32:17/10/2022

2025/01834 ~ Provisional ~54:HYBRID MINI BUNKER ~71:LYNETTE MAGASA, 407 ROAN CRESCENT, South Africa ~72: CHRISTOPHER JOHNSTON~

2025/01897 ~ Provisional ~54:NANA CARING ~71:Khutjo Alpheus Mohlola, 452 Clausena Crescent, New Modder Ext 8 Benoni, South Africa ~72: Khutjo Alpheus Mohlola~

2025/01791 ~ Provisional ~54:FIREARM TRACKING AND MANAGEMENT SYSTEM ~71:K2016112059 (Pty) Ltd t/a i-Detect, 276 Annchela Street, Faerie Glen, South Africa ~72: VENTER, Kenneth~

2025/01794 ~ Complete ~54:SMALL-ANIMAL INHALATION ANESTHESIA INDUCTION BOX ~71:THE FIRST AFFILIATED HOSPITAL OF SOOCHOW UNIVERSITY, No.899, Pinghai Road, Gusu District, Suzhou, Jiangsu, 215000, People's Republic of China ~72: CHEN, Qingcai;DENG, Li;FU, Chong;JI, Fuhai;LIU, Huayue;PENG, Ke;SHAN, Xisheng;XU, Hanbing;YANG, Yufan;ZHAO, Weiming~

2025/01796 ~ Complete ~54:A SMOKELESS MOXIBUSTION DEVICE ~71:Anhui University of Chinese Medicine, No. 350 Longzihu Road, Xinzhan District, Hefei City, People's Republic of China;Hefei Comprehensive National Science Center Big Health Research Institute, No. 4090 Susong Road, Shushan District, Hefei City, People's Republic of China ~72: Fan Minming;Gao Bing;Jia Xuezhao;Li Liya;Li Ruihua;Li Lan;Wang Jing;Zhang Wenxuan~ 33:CN ~31:2024111255879 ~32:16/08/2024

2025/01821 ~ Complete ~54:CONFIRMATION METHOD, CONFIRMATION DEVICE, POWER STORAGE DEVICE, CONFIRMATION SYSTEM, AND COMPUTER READABLE MEDIUM ~71:Honda Motor Co., Ltd., 1-1, Minami-Aoyama 2-chome, Minato-ku, TOKYO 1078556, JAPAN, Japan ~72: HARADA, Hironori~

2025/01801 ~ Complete ~54:PREKALLIKREIN-MODULATING COMPOSITIONS AND METHODS OF USE THEREOF ~71:ADARX PHARMACEUTICALS, INC., 5871 Oberlin Drive, Suite 200, San Diego, California, 92121, United States of America ~72: KIMBERLY FULTZ;RUI ZHU;SEAN STUDER;ZHEN LI;ZHIQING (JOEL) ZHOU~ 33:US ~31:63/251,571 ~32:01/10/2021;33:US ~31:63/252,554 ~32:05/10/2021;33:US ~31:63/270,504 ~32:21/10/2021;33:US ~31:63/283,175 ~32:24/11/2021;33:US ~31:63/287,969 ~32:09/12/2021

2025/01810 ~ Complete ~54:CABLE GLAND WITH CABLE GRIPPING FERRULE ~71:HELLERMANNTYTON (PTY) LTD, 34 Milkyway Avenue, Linbro Business Park, South Africa ~72: PHILLIPS, Peter, Don;SWANEPOEL, Barend Hercules Philippus~ 33:NL ~31:2033427 ~32:31/10/2022

2025/01815 ~ Complete ~54:RAISE BORING TOOL WITH A DIGITAL IDENTIFICATION TAG ~71:Sandvik Mining and Construction Tools AB, Valsverksstråket 14, SANDVIKEN 811 34, SWEDEN, Sweden ~72: LINDBLOM, Anders;LOIKKANEN, Joonas~ 33:EP ~31:22196856.3 ~32:21/09/2022

2025/01827 ~ Complete ~54:MODIFIED-RELEASE SILODOSIN COMPOSITIONS AND USE THEREOF IN METHODS FOR MALE CONTRACEPTION ~71:PHARMAJOUR INCORPORATED, 1209 Orange Street , Wilmington, Delaware, 19801, United States of America ~72: GUILLAUME EL GLAOU;JÉRÔME REVEL;MARGUERITE TULLI-CORTES;MEHDI EL GLAOU;STÉPHANIE ANGOT;VÉRONIQUE AGATHON-MERIAU~ 33:EP ~31:22208994.8 ~32:23/11/2022;33:US ~31:63/427,480 ~32:23/11/2022

2025/01820 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS FOR HERPES VIRUS ~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 ~31:63/373,774 ~32:29/08/2022;33:US ~31:63/484,838 ~32:14/02/2023

2025/01830 ~ Complete ~54:COMPOSITIONS FOR CELL-SPECIFIC EXPRESSION AND USES THEREOF ~71:MYELOID THERAPEUTICS, INC., 300 Technology Square, Suite 203, United States of America ~72: DIWANJI, Neha;GETTS, Daniel;WANG, Yuxiao~ 33:US ~31:63/403,449 ~32:02/09/2022;33:US ~31:63/403,454 ~32:02/09/2022;33:US ~31:63/403,455 ~32:02/09/2022

2025/01835 ~ Provisional ~54:TRIBRID BATTERY SOLUTION ~71:LYNETTE MAGASA, 407 ROAN CRESCENT, South Africa ~72: CHRISTOPHER JOHNSTON~

2025/01795 ~ Complete ~54:ACETYLATED PORIA COCOS POLYSACCHARIDE AND ITS PREPARATION METHOD AND APPLICATION ~71:Tianjin University of Science and Technology, No.9 Thirteenth Street, Economic and Technological Development Zone, Binhai New Area, Tianjin, 300457, People's Republic of China ~72: Cheng ZHONG;Hongpei LI;Shuanzhu ZHAI;Wenchao LI;Yanyan XIE;Yue DING~ 33:CN ~31:202510101714X ~32:22/01/2025

2025/01800 ~ Complete ~54:VEHICLE CONTROL SYSTEMS AND METHODS ~71:Transportation IP Holdings, LLC, 901 Main Avenue, NORWALK 06851, CT, USA, United States of America ~72: CHAPMAN, Jeffrey D.;KERNWEIN, Jeffrey D.;LITTLE, Jared;MUDIAM, Vinaykanth V.;OSWALD, James A.~ 33:US ~31:18/589,793 ~32:28/02/2024

2025/01823 ~ Complete ~54:LIPIDS FOR USE IN LIPID NANOPARTICLE FORMULATIONS ~71:Acuitas Therapeutics, Inc., 6190 Agronomy Road, Suite 402, VANCOUVER V6T 1Z3, BRITISH COLUMBIA, CANADA, Canada ~72: BARBOSA, Elena;BLAGOJEVIC, Polina;DU, Xinyao~ 33:US ~31:63/404,463 ~32:07/09/2022

2025/01832 ~ Complete ~54:HYDROGEN-GAS-CONTAINING DRUG FOR CAUSAL TREATMENT OF ALZHEIMER'S DISEASE (DISEASE-MODIFYING DRUG) ~71:H2 GLOBAL GROUP S.R.O., Muglinovská 154/73, Muglinov, Czech Republic ~72: NISHIJIMA Yoji;OHTA Shigeo;ONO Hirohisa~ 33:JP ~31:2022-122081 ~32:29/07/2022

2025/01809 ~ Complete ~54:METHOD FOR THE PURIFICATION OF CAPSULAR POLYSACCHARIDES ~71:BIOLOGICAL E LIMITED, Plot No. 18/1 & 3, Azamabad, India ~72: DATLA, Mahima;KOWLAKUNTALA, Eswara Reddy;KUMAR, Sudeep;MACHA, Chandra Shekar;MANTENA, Narender Dev;PARADKAR, Vikram Madhusadan~ 33:IN ~31:202241053370 ~32:19/09/2022

2025/01813 ~ Complete ~54:NOVEL CRYSTALLINE FORMS OF (S)-7-OXA-2-AZA-SPIRO[4.5]DECANE-2-CARBOXYLIC ACID [7-(3,6-DIHYDRO-2H-PYRAN-4-YL)-4-METHOXY-THIAZOLO[4,5-C]PYRIDIN-2-YL]-AMIDE AND CO-CRYSTAL FORMS THEREOF ~71:Merck Patent GmbH, Frankfurter Strasse 250, DARMSTADT 64293 , GERMANY, Germany ~72: BECKER, Axel;SCHMIDT, Sylvia~ 33:EP ~31:22188357.2 ~32:02/08/2022

2025/01828 ~ Complete ~54:BED FOUNDATION, KIT FOR SAME, AND METHOD FOR ASSEMBLING SAME ~71:SEALY TECHNOLOGY, LLC, One Office Parkway, Trinity, North Carolina, 27370, United States of America ~72: BRIAN M MANUSZAK;ROBERT HANSON~ 33:US ~31:63/405,029 ~32:09/09/2022

2025/01793 ~ Complete ~54:APPLICATION OF ESSENTIAL OIL OF SCHIZONEPETA TENUIFOLIA IN BACTERIOSTASIS ~71:TaiShan University, No. 525 Dongyue Street, Tai'an City, Shandong Province, 271021, People's Republic of China ~72: LIU, Zhongde;REN, Shuhui;YANG, Guangcheng;ZHANG, Lei;ZHANG, Ximei;ZHOU, Cuixia~ 33:CN ~31:202411235191.X ~32:04/09/2024

2025/01808 ~ Complete ~54:VACCINE CONSTRUCTS COMPRISING TUBERCULOSIS ANTIGENS ~71:THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, Office of the General Counsel, Building 170, Third Floor, Main Quad, Stanford, United States of America;UNIVERSITY OF CAPE TOWN, Bremmer Building, Lovers' Walk, Rondebosch, South Africa;UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, 1 Jan Smuts Avenue, South Africa ~72: ARBUTHNOT, Patrick;BLOOM, Kristie;DAVIS, Mark M;ELY, Abdullah;HUANG, Huang;MUSVOSVI, Munyaradzi N;OBERMOSER, Gerlinde;SCRIBA, Thomas J~ 33:GB ~31:2211137.1 ~32:29/07/2022;33:ZA ~31:2023/05862 ~32:01/06/2023

2025/01811 ~ Complete ~54:METHOD FOR OPERATING A SMELTING FURNACE INSTALLATION ~71:Paul Wurth S.A., 32, rue d'Alsace, LUXEMBOURG 1122, LUXEMBOURG, Luxembourg ~72: BANIASADI, Mehdi;DELIKONSTANTIS, Evangelos;DIDELON, Fernand;JI, Jihong;KINZEL, Klaus Peter~ 33:DE ~31:10 2022 121 807.4 ~32:29/08/2022;33:LU ~31:LU502719 ~32:29/08/2022

- APPLIED ON 2025/02/28 -

2025/01885 ~ Complete ~54:PAPER SHEET HANDLING DEVICE, GAME MACHINE MANAGEMENT DEVICE USING PAPER SHEET HANDLING DEVICE, AND DEGRADATION LEVEL DISPLAY METHOD FOR PAPER SHEET HANDLING DEVICE ~71:Japan Cash Machine Co., Ltd., 2-11-18, Nambanaka, Naniwa-ku, OSAKA 5560011, OSAKA-SHI, JAPAN, Japan ~72: ADACHI, Naomasa;HARAGUCHI, Kohei;SUZUKI, Hiroyuki~ 33:JP ~31:2022-158418 ~32:30/09/2022

2025/01837 ~ Provisional ~54:SURVEYING DEVICE AND METHOD OF MEASURING MOISTURE CONTENT IN SOIL ~71:SRK CONSULTING (SOUTH AFRICA) (PTY) LTD., 265 Oxford Road, Illovo, JOHANNESBURG, Gauteng, SOUTH AFRICA, South Africa ~72: MEYER, Christiaan Lodewyk~

2025/01839 ~ Provisional ~54:DESALINATION PROCESS ~71:HELLMANN, Neil Christopher, 6 Steens Way, Llandudno, South Africa ~72: HELLMANN, Neil Christopher~

2025/01843 ~ Complete ~54:A WARDMATE SIMILARITY CALCULATION SYSTEM AND METHOD BASED ON PATIENT PORTRAIT GRAPH ~71:University of Science and Technology Beijing, No. 30 Xueyuan Road, Haidian District, Beijing City, 100083, People's Republic of China ~72: Hao Yang;Hongzhen Cui;Longhao Zhang;Shenhui Ning;Xiaoyue Zhu;Xingyu Li;Yunfeng Peng~

2025/01845 ~ Complete ~54:FLUE-CURED TOBACCO PREPARED USING THE "SIX STEPS AND THREE KEY POINTS" CURING PROCESS IN BULK CURING BARNs ~71:Dali Prefecture Branch of Yunnan Tobacco Company, No.71 Heqing Road, Dali City, Yunnan Province, 671000, People's Republic of China;Yunnan Academy of Tobacco Agricultural Sciences, No.33 Yuantong Street, Wuhua District, Kunming City, Yunnan Province, 650021, People's Republic of China ~72: CHEN Yi;HE Jun;HU Binbin;JI Xinwei;JIANG Yonglei;LI Baole;LIU Shihang;SU Jiaen;TANG Yuchun;XU Hongfei~

2025/01848 ~ Complete ~54:SCOOTER DELIVERY BOX ~71:EASY DISPLAY ADS (PTY) LTD., 12467 Evaton West Ext 7, 1984, Gauteng, SOUTH AFRICA, South Africa ~72: DLAMINI, Siphwe~ 33:ZA ~31:2024/01743 ~32:29/02/2024

2025/01851 ~ Complete ~54:SWITCHING APPARATUS FOR ELECTRICAL SYSTEMS ~71:ABB S.P.A, Via Vittor Pisani, 16, I-20124, Milano, Italy ~72: PIERANTONIO ARRIGHETTI;PIERRE CORFDIR~ 33:EP ~31:24172110.9 ~32:24/04/2024

2025/01858 ~ Complete ~54:DISPOSABLE WEARING ARTICLE ~71:Unicharm Corporation, 182, Shimobun, Kinsei-cho, SHIKOKUCHUO-SHI 7990111, EHIME, JAPAN, Japan ~72: FUJIMOTO, Kazuya;NORO, Nanami;OKUNO, Shingo~

2025/01861 ~ Complete ~54:SURVEYING INSTRUMENT SUPPORT ~71:JINGGANGSHAN UNIVERSITY, NO. 28 XUEYUAN ROAD, QINGYUAN DISTRICT, JI'AN CITY, People's Republic of China ~72: LI, Weihua;LIU, Lianglin~ 33:CN ~31:2024111139134 ~32:14/08/2024

2025/01865 ~ Complete ~54:NLRP3 INFLAMMASOME INHIBITORS ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: GE, Xiaobin;MATTES, Henri;SHI, Zhicong;XIA, Mei;YE, Ning~ 33:US ~31:63/370,300 ~32:03/08/2022;33:CN ~31:PCT/CN2023/097282 ~32:30/05/2023

2025/01872 ~ Complete ~54:CRYSTALLINE FORMS AND SALTS OF A MUSCARINIC RECEPTOR AGONIST ~71:Nxera Pharma UK Limited, Granta Park, Great Abington, CAMBRIDGE CB21 6DG, CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72: BROWN, Giles Albert;CANSFIELD, Julie;MCGEE, Paul;PICKWORTH, Mark~ 33:GB ~31:2211399.7 ~32:04/08/2022;33:GB ~31:2305444.8 ~32:13/04/2023;33:GB ~31:2309615.9 ~32:26/06/2023

2025/01876 ~ Complete ~54:SHP-1 INHIBITORS FOR TREATING CANCER ~71:MDX Management LLC, 9046 La Jolla Shores Lane, LA JOLLA 92037, CA, USA, United States of America ~72: BIAN, Zhen;LIU, Yuan;SHI, Lei;STYLLI, Harry~ 33:US ~31:63/404,392 ~32:07/09/2022;33:US ~31:63/491,008 ~32:17/03/2023

2025/01878 ~ Complete ~54:PROCESS FOR THE PREPARATION OF DIMETHENAMID ~71:Adama Agan Ltd., P.O. Box 262, Northern Industrial Zone, ASHDOD 7710201, ISRAEL, Israel ~72: BAR NAHUM, Itsik;CHEN, Jianguo;WANG, Kai;YACOVAN, Avihai~ 33:IB ~31:2022/117513 ~32:07/09/2022

2025/01882 ~ Complete ~54:SILICIC ACID FOR IMPROVING MILK PRODUCTION IN DAIRY LIVESTOCK ~71:Barlaa B.V., Herengracht 40, MUIDEN 1398 AB, THE NETHERLANDS, Netherlands ~72: LAANE, Henk Maarten;VAN STEE, Cornelis Hendrik Geuvel~ 33:EP ~31:22193413.6 ~32:01/09/2022

2025/01884 ~ Complete ~54:METHOD FOR REDUCING NOX IN A NITRIC ACID PLANT DURING TRANSITORY EVENTS ~71:Casale SA, Via Giulio Pocobelli 6, LUGANO 6900, SWITZERLAND, Switzerland ~72: CEREIA, Iacopo;GARBUJO, Alberto;OLDANI, Fabio~ 33:EP ~31:22201643.8 ~32:14/10/2022

2025/01889 ~ Complete ~54:FEEDSTOCK COMPOSITE WITH CARBONACEOUS MATERIAL HAVING A TAILORED DENSITY ~71:Kronos International, Inc., Peschstr. 5, LEVERKUSEN 51373, GERMANY, Germany ~72: BARWARI, Beawer;GNOTKE, Oliver;LANDWEHR, Frank;MEDVED, Mitja;PIERAU, Thomas~ 33:EP ~31:22196476.0 ~32:20/09/2022

2025/01894 ~ Provisional ~54:MULTI MOVIE SHOWS AND GIANT ROLLER ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISONS, South Africa ~72: HILTON BRIAN THOMAS ~

2025/01838 ~ Provisional ~54:PRODUCTION OF TITANIUM METAL POWDER ~71:VAN VUUREN, David, Steyn, 274 ALBERT STREET, WATERKLOOF, 0181, PRETORIA, SOUTH AFRICA, South Africa ~72: VAN VUUREN, David, Steyn~

2025/01842 ~ Complete ~54:ANAL FUNCTION REHABILITATION TRAINING DEVICE FOR PATIENTS AFTER RECTAL CANCER SURGERY ~71:Hunan Cancer Hospital, No. 582, Xianjia Lake, Yuelu District, Changsha City, Hunan Province, 410205, People's Republic of China ~72: Caiyun YI;Gaoming LIU;Jiali WANG;Ke WANG;Limin QING;Yanfang SHU~ 33:CN ~31:2025101524661 ~32:11/02/2025

2025/01853 ~ Complete ~54:UTERUS MODEL CAPABLE OF ADJUSTING AGING CHANGE OF UTERUS ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO. 168 TAIFENG STREET, HUAINAN CITY, People's Republic of China ~72: CHENG, Jin;LI, Mingwei;WANG, Wenxin;ZHOU, Ping~

2025/01862 ~ Complete ~54:WATER CONSERVANCY PROJECT UNMANNED AERIAL VEHICLE FOR REMOTE SENSING SURVEYING AND MAPPING ~71:JINGGANGSHAN UNIVERSITY, NO. 28 XUEYUAN ROAD, QINGYUAN DISTRICT, JI'AN CITY, People's Republic of China ~72: HE, Jun;LI, Weihua~ 33:CN ~31:202410952530X ~32:16/07/2024

2025/01864 ~ Complete ~54:COPY NUMBER VARIATION MAP OF ODONTOGENIC MYXOMA AND CONSTRUCTION METHOD THEREOF ~71:PEKING UNIVERSITY SCHOOL OF STOMATOLOGY, 22 Zhongguancun South Street, Haidian District, People's Republic of China ~72: Aobo ZHANG;Heyu ZHANG;Jianyun ZHANG;Lijing ZHU;Lisha SUN;Tiejun LI;Xuefen LI;Yanrui FENG~

2025/01868 ~ Complete ~54:DEVICE FOR REFINING THE TASTE OF BEVERAGES ~71:Dr. Johann KREUTZINGER, Oberstrasse 27, Switzerland ~72: Dr. Johann KREUTZINGER~ 33:US ~31:17/939,600 ~32:07/09/2022

2025/01875 ~ Complete ~54:ISOQUINOLONES AS PI3K INHIBITORS ~71:OnKure, Inc., 6707 Winchester Circle, Suite 400, BOULDER 80301, CO, USA, United States of America ~72: BLAKE, James F.;BOYS, Mark Laurence;MARESKA, David A.;PAYETTE, Joshua Nathaniel;SCHULTE, Christie A.;YESTREPSKY, Bryan;ZHAO, Qian~ 33:US ~31:63/404,715 ~32:08/09/2022;33:US ~31:63/525,460 ~32:07/07/2023

2025/01879 ~ Complete ~54:LIQUID BEER CONCENTRATE ~71:Heineken Supply Chain B.V., Burgemeester Smeetsweg 1, ZOETERWOUDE 2382 PH, THE NETHERLANDS, Netherlands ~72: BEKKERS, Augustinus Cornelius Aldegonde Petrus Albert;BROUWER, Eric Richard~ 33:EP ~31:22193726.1 ~32:02/09/2022

2025/01844 ~ Complete ~54:AN INTERNATIONAL TRADE LOGISTICS DOCUMENT STICKER ~71:Huainan Normal University, Dongshan West Road, Tianjia'an District, Huainan City, Anhui Province, 232038, People's Republic of China ~72: Qiufang Ma;Wenjin Zhang~

2025/01849 ~ Complete ~54:PROTECTIVE DEVICE FOR UNMANNED AERIAL VEHICLE FLIGHT CONTROL MODULE ~71:ZHENGZHOU UNIVERSITY OF AERONAUTICS, NO. 15, WENYUAN WEST ROAD, ZHENGDONG NEW DISTRICT, ZHENGZHOU CITY, People's Republic of China ~72: FU, Shuai;GUO, Xinyao;LI, Zhen;LIN, Chen;SI, Qingmin~

2025/01854 ~ Complete ~54:RHIZOBIUM INOCULANT STIRRING KETTLE ~71:SUZHOU UNIVERSITY, NO. 1769 XUEFU AVENUE, SUZHOU CITY, People's Republic of China ~72: CHEN, Jun;FENG, Fan;LIU, Zhuocheng;WANG, Haichao;XU, Lisheng;ZHANG, Dongjing;ZHANG, Xingtao;ZHAO, Jing;ZHAO, Wenlong;ZHOU, Yu~

2025/01856 ~ Complete ~54:THERAPEUTIC DEVICE FOR REHABILITATION OF SACROILIAC JOINT DISLOCATION ~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: Cong Wang;Fei Chen;Kun Wang;Long Tao;Lu Ni;Meilin Gui;Qingjun Guo;Tao Jiang;Yaping Pan;Yuxia He;Zhidong Wu~

2025/01859 ~ Complete ~54:HIGHWAY TRAFFIC ENGINEERING PAVEMENT QUALITY DETECTION DEVICE ~71:XIZANG ZHENGXIN ENGINEERING TESTING TECHNOLOGY CO., LTD, NO. 7, LAQING WEST 2ND ROAD, ZONE B, LHASA ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, People's Republic of China ~72: CHEN, Chuanxu;DENG, Honglin;DONG, Yanliang;HE, Qiansheng;LI, Jianwen;LI, Xiuyan;TAN, Rong;WANG, Xuefei;XIONG, Wengang;YANG, Kai;ZHANG, Xingqiao~ 33:CN ~31:2024107464960 ~32:11/06/2024

2025/01887 ~ Complete ~54:A SENSOR SYSTEM AND A METHOD FOR A MINING VEHICLE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: PUURA, Jussi~ 33:EP ~31:22196726.8 ~32:20/09/2022

2025/01892 ~ Complete ~54:TRAVEL PILLOW WITH CHIN-SUPPORTING STRUCTURE ~71:AZUROUS, INC. dba CABEAU, 5950 Canoga Avenue, Suite 619 Woodland Hills, CA 91367, United States of America ~72: STERNLIGHT, David~ 33:US ~31:63/397,054 ~32:11/08/2022;33:US ~31:17/987,068 ~32:15/11/2022

2025/01863 ~ Complete ~54:WASTE LIQUID TREATMENT DEVICE FOR MEDICAL EXAMINATION AND DETECTION ~71:JIANGSU COLLEGE OF NURSING, NO. 9 SCIENCE AND TECHNOLOGY AVENUE, HUAI'AN ECONOMIC DEVELOPMENT ZONE, People's Republic of China ~72: LI, Jing;WANG, Jiru;XUE, Bai~ 33:CN ~31:2024110020058 ~32:25/07/2024

2025/01867 ~ Complete ~54:RETRACTABLE ROOF ~71:VOLCO INC., 30 White Swan Road, Canada ~72: DRABBLE, Jeff;LEWIS, Shane William;LICKERS, Wayne;MCDONALD, Graham;VOLLEBREGT, Richard~ 33:US ~31:63/396,062 ~32:08/08/2022;33:US ~31:63/419,656 ~32:26/10/2022;33:US ~31:63/516,010 ~32:27/07/2023

2025/01869 ~ Complete ~54:A ROCK BOLT ~71:BOTHA, Raymond, Mark, 8 PANORAMA HOF, CONVENT STREET, GREENHILLS, RANDFONTEIN, 1759, South Africa ~72: MARSHALL, Elton;MARSHALL, Garth~ 33:ZA ~31:2022/09012 ~32:12/08/2022;33:ZA ~31:2022/11902 ~32:02/11/2022

2025/01877 ~ Complete ~54:ADAGRASIB SOLID PHARMACEUTICAL COMPOSITIONS ~71:Mirati Therapeutics, Inc., Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: GAVIREDDI, Monika;KHEIRIPOUR, Mehrdad;NUNES, Cletus~ 33:US ~31:63/399,619 ~32:19/08/2022;33:US ~31:63/400,640 ~32:24/08/2022

2025/01841 ~ Complete ~54:LOGISTICS VEHICLE MONITORING DEVICE BASED ON BIG DATA ~71:EAST CHINA JIAOTONG UNIVERSITY, NO. 808 SHUANGGANG EAST STREET, NANCHANG ECONOMIC DEVELOPMENT ZONE, People's Republic of China;XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: FENG, Daoming;HUANG, Yulong;LIU, Kai;PAN, Cheng;WU, Guangsheng~

2025/01846 ~ Complete ~54:PSYCHOLOGICAL COUNSELING AND RELAXATION EXERCISE DEVICE ~71:Dehongzhou People's Hospital, No.13, Yonghan Street, Mang City, Dehong Autonomous Prefecture, Yunnan Province, 678400, People's Republic of China ~72: CHEN Houlin;LI Jiang;LU Qianjiao;LUO Guiyan;MA Luojing;TANG Yunhong;YAN Changyun;YANG Rongsui~

2025/01852 ~ Complete ~54:ALUMINUM ALLOY PLATE STAMPING DEVICE ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: LI, Jinbo;LIU, Hao;LIU, Lei;XIONG, Wenming~

2025/01860 ~ Complete ~54:MUSIC SCORE WRITING DEMONSTRATION DEVICE AND METHOD ~71:TONGREN UNIVERSITY, CHUANDONG EDUCATION PARK, BIJIANG DISTRICT, TONGREN CITY, People's Republic of China ~72: LI, Xiaotong~ 33:CN ~31:2024107785730 ~32:17/06/2024

2025/01866 ~ Complete ~54:ADJUVANTED IMMUNOGENIC COMPOSITION AGAINST NEISSERIA MENINGITIDIS B ~71:SANOVI PASTEUR INC., 1 Discovery Drive, Swiftwater, United States of America ~72: AUSAR, Salvador Fernando;BALHARA, Vinod;DARMONT, Anne-Gaëlle;RAHMAN, Nausheen~ 33:US ~31:63/370,333 ~32:03/08/2022

2025/01871 ~ Complete ~54:ANTIMICROBIAL COMPOSITIONS ~71:AHV INTERNATIONAL B.V., Schokkerweg 10, Netherlands ~72: DE BOER, Lex;KHOKHAR, Shaista Sheroze;NIBBERING, Petrus Hendricus;WRONSKA, Anna Kristina~ 33:NL ~31:PCT/NL2022/050507 ~32:08/09/2022;33:NL ~31:2034306 ~32:09/03/2023

2025/01873 ~ Complete ~54:USE OF MILVEXIAN FOR TREATING OR PREVENTING ISCHEMIC STROKE ~71:Bristol-Myers Squibb Company, Route 206 & Province Line Road, PRINCETON 08543, NJ, USA, United States of America;Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: JONES-BURTON, Charlotte;KAHL, Anja;LI, Danshi;MERALI, Samira J.;MOHAN, Puneet;NESSEL, Christopher;PERERA, Vidya Liyanage;PLOTNIKOV, Alexei;YAVIN, Yshai~ 33:US ~31:63/370,031 ~32:01/08/2022;33:US ~31:63/401,361 ~32:26/08/2022;33:US ~31:63/379,848 ~32:17/10/2022;33:US ~31:63/498,945 ~32:28/04/2023

2025/01883 ~ Complete ~54:PRODUCTION OF SYNGAS FROM CARBON DIOXIDE THROUGH METHANOL ~71:BP P.L.C., 1 St James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James;SUNLEY, John Glenn~ 33:EP ~31:22190307.3 ~32:12/08/2022

2025/01888 ~ Complete ~54:EGFR INHIBITORS AND USES THEREOF ~71:Dizal (Jiangsu) Pharmaceutical Co., Ltd., No.199 Liangjing Road, Zhangjiang Hi-Tech Park, Pudong New Area, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: TSUI, Honchung;YANG, Zhenfan;ZENG, Qingbei;ZHANG, Xiaolin~ 33:IB ~31:2022/116914 ~32:02/09/2022;33:IB ~31:2023/107228 ~32:13/07/2023

2025/01896 ~ Provisional ~54:MULTI-PURPOSE BOOKHOLDER ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISONS, South Africa ~72: HILTON BRIAN THOMAS ~

2025/01881 ~ Complete ~54:ELASTIC MODULE UNIT, ELASTIC CUSHION, AND FURNITURE ~71:New-Tec Integration (Xiamen) Co., Ltd., No. 88, Zhennan 3rd Road, Tong'an District, XIAMEN 361100, FUJIAN, CHINA (P.R.C.), People's Republic of China ~72: LENG, Luhao~ 33:IB ~31:20221129404.1 ~32:16/09/2022

2025/01891 ~ Complete ~54:ANTIBODIES TARGETING IL3 ~71:UNIVERSITÄTSKLINIKUM REGENSBURG, Franz-Josef-Strauß-Allee 11, 93053, Germany ~72: MACK, Matthias~ 33:EP ~31:22190068.1 ~32:11/08/2022

2025/01893 ~ Provisional ~54:STEAM ENGINES AND ELEPHANTS TO MOVE CARRIAGES ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISONS, South Africa ~72: HILTON BRIAN THOMAS ~

2025/01880 ~ Complete ~54:DETERMINATION OF AN UPDATED DRILLING PLAN ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: KIVELÄ, Tuomo;NURMINEN, Petri;PESOLA, Mikko;PUURA, Jussi;VON ESSEN, Tomi~ 33:EP ~31:22196730.0 ~32:20/09/2022

2025/01886 ~ Complete ~54:JUST-IN-TIME LEARNING WITH VARIATIONAL AUTOENCODER FOR CELL CULTURE PROCESS MONITORING AND/OR CONTROL ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: KHODABANDEHLOU, Hamid;RASHEDI, Mohammad;TULSYAN, Aditya;WANG, Tony Y.~ 33:US ~31:63/406,653 ~32:14/09/2022

2025/01895 ~ Provisional ~54:LOOPING ROLLERS ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISONS, South Africa ~72: HILTON BRIAN THOMAS~

2025/01840 ~ Complete ~54:PLANT EXTRACTS ENRICHED WITH IPOLAMIIDE DERIVATIVES AS IMMUNOSUPPRESSANTS FOR TREATING IMMUNOLOGICAL DISORDERS ~71:ACHÉ LABORATÓRIOS FARMACÊUTICOS S.A., Rod. Presidente Dutra, s/nº - Km 222, Brazil ~72: GAMA, Fernando Henrique De Souza;GUIMARÃES, Cristiano Ruch Werneck;MASCARELLO, Alessandra;PESSA, Lisandra Ravanelli;REIS, Romulo Dragani;VITOR, Carlos Eduardo~ 33:BR ~31:BR1020170033180 ~32:17/02/2017

2025/01847 ~ Complete ~54:ELECTROSTATIC SPINNING DEVICE ~71:SHENZHEN YIFENG YANGCHUAN INVESTMENT CO., LTD, ROOM 701, 7TH FLOOR, SOFTWARE BUILDING, NO. 9, GAOXINZHONGYI ROAD, MALING COMMUNITY, YUEHAI STREET, People's Republic of China ~72: YANG, Yan~

2025/01850 ~ Complete ~54:PREFABRICATED STEEL STRUCTURE BUILDING DAMPING AND ENERGY DISSIPATION DEVICE ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: FAN, Dongjiao;FENG, Sixin;HUANG, Ying;MA, Caiwei;WANG, Juan~

2025/01857 ~ Complete ~54:PREPARATION AND USE METHOD OF HOT COMPRESS PACK FOR CHRONIC MUSCLE TENSION ~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: Caifeng Zhu;Dahong Gao;Dechun Liu;Ran Liu;Yingying Chen~

2025/01870 ~ Complete ~54:TUNDISH FLOW STABILIZER ~71:VESUVIUS U S A CORPORATION, 1404 Newton Drive, Champaign, Illinois, 61822, United States of America ~72: KE WEN;SHUHUA ZHAN;XIANXUN YI~ 33:CN ~31:202222595366.0 ~32:29/09/2022

2025/01874 ~ Complete ~54:ANTI-GDF15 ANTIBODY USED IN A COMBINATION TREATMENT OF SPECIFIC PATIENT GROUPS AND A DOSAGE REGIMEN FOR THE TREATMENT OF CANCER ~71:CatalYm GmbH, Am Klopferspitz 19, PLANEGG-MARTINSRIED 82152, GERMANY, Germany ~72: KLAR, Kathrin;LEO, Eugen~ 33:EP ~31:22194590.0 ~32:08/09/2022

2025/01855 ~ Complete ~54:A METHOD OF ADAPTIVE INVERSE TONAL AUDIBILITY LEVEL SCREENING ~71:HEARING REHABILITATION CENTER "MELFON", LTD., Profsoyuznaya ulitsa 78, str. 1, Moscow, 117393, Russian Federation ~72: Khanykov Vladimir Vladimirovich;Pasyuta Sergey Mikhailovich;Sirotkin Valeriy Stepanovich~ 33:RU ~31:2024134030 ~32:14/11/2024

2025/01890 ~ Complete ~54:INFLUENZA VIRUS VACCINES ~71:GlaxoSmithKline Biologicals SA, Rue de l'Institut 89, RIXENSART B-1330, BELGIUM, Belgium ~72: BITTNER-SCHRADER, Zsófia;BRECX, Alain;DORMITZER, Philip R.;JASNY, Edith;LORIN, Clarisse Marie-Madeleine;MANN, Philipp;MOLDT, Brian;PEETERS, Pascal;PETSCH, Benjamin;RAUCH, Susanne;SRIVASTAVA, Barkha~ 33:US ~31:63/409,895 ~32:26/09/2022;33:US ~31:63/498,544 ~32:27/04/2023

2025/01923 ~ Provisional ~54:ADJUSTABLE HINGE DEVICE ~71:DOUGLAS, André James Thomas, 260 Via Colinas Westlake Village CA 91362 United States of America, United States of America ~72: DOUGLAS, André James Thomas~

- APPLIED ON 2025/03/03 -

2025/01915 ~ Complete ~54:METHOD OF TREATING HYPERTENSION WITH THE ALDOSTERONE SYNTHASE INHIBITOR BAXDROSTAT ~71:CinCor Pharma, Inc., 1800 Concord Pike, WILMINGTON 19850, DE, USA, United States of America ~72: PEARCE, Catherine~ 33:US ~31:63/395,680 ~32:05/08/2022;33:US ~31:63/374,410 ~32:02/09/2022;33:US ~31:63/378,120 ~32:03/10/2022;33:US ~31:63/384,594 ~32:21/11/2022;33:US ~31:63/386,683 ~32:09/12/2022

2025/01918 ~ Complete ~54:METHODS AND SYSTEMS WITH ADDITIVE AI MODELS ~71:VETOLOGY INNOVATIONS, LLC, 7522 Clairemont Mesa Blvd, San Diego, California, 92111, United States of America ~72: ERIC GOLDMAN;SETH WALLACK~ 33:US ~31:63/395,525 ~32:05/08/2022

2025/01919 ~ Complete ~54:CATALYST SYSTEM HAVING A CATALYST NETWORK COMPRISING A NOBLE METAL WIRE FOR LONG CAMPAIGNS IN AMMONIA OXIDATION ~71:HERAEUS PRECIOUS METALS GMBH & CO. KG, Heraeusstraße 12-14, Germany ~72: HESSE, Jens;HIRSCHEL, Pascal;JANTSCH, Uwe;MAIER, Dirk~ 33:EP ~31:22199163.1 ~32:30/09/2022

2025/01920 ~ Provisional ~54:HONORING BARRICADE ~71:XHINYUKANI BARRENT NGOBENI, 613 MORITING SECTION, South Africa ~72: XHINYUKANI BARRENT NGOBENI~

2025/01912 ~ Complete ~54:BIS(2-HYDROXYETHYL)TEREPHTHALATE SOLID HAVING A PARTICULAR CRYSTAL FORM ~71:IFP ENERGIES NOUVELLES, 1 et 4 avenue de Bois-Préau, France;JEPLAN, INC., 12-2, Ogimachi, Kawasaki-ku, Japan ~72: BLANCKE, Guillaume;CHICHE, David;FAVRE, Frederic;LEINEKUGEL LE COCQ, Damien~ 33:FR ~31:FR2210881 ~32:20/10/2022

2025/01917 ~ Complete ~54:SLUDGE AND WASTE CONCRETE-BASED GREEN CONCRETE PREPARATION METHOD ~71:CCCC SPECIAL ENGINEERING CO., LTD., No. 2101-2104, 21st Floor, Unit A, Block A, Hubei Science And Technology Pioneering Building, Xiaohongshan East Area, Wuchang District, Wuhan, Hubei, 430061, People's Republic of China ~72: QINGSONG DUAN;SHAOLIN YUE;SHIFENG ZHU;WANG GAO;WEI CHEN;WEI WANG;XIAOYUN MA;YANG LU;YICAI SANG~ 33:CN ~31:202211011655.X ~32:23/08/2022

2025/01905 ~ Complete ~54:HYPOGLYCEMIC COMPOSITION CONTAINING DANFENG PEONY EXTRACT AND PREPARATION METHOD THEREOF ~71:Shandong Benon Biological Technology Co., Ltd., South Section of Industrial Fifth Road, Yuncheng County Economic Development Zone, Heze City, Shandong Province, 274703, People's Republic of China ~72: FAN Yike;FAN Zhaosen;HAN Jinlong;HOU Shaoyang;LI Keming;LIU Chao;LU Yue;LYU Weiwei;SONG Yuanda;SUN Fengwen;WANG Daijie;ZHANG Bingxue;ZHANG Zenglong~ 33:CN ~31:202410407005X ~32:07/04/2024

2025/01914 ~ Complete ~54:LEAN PERFUSION CELL CULTURE METHODS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320, CA, USA, United States of America ~72: BHEBE, Prince;JACOB, Nitya M.~ 33:US ~31:63/403,896 ~32:06/09/2022

2025/01901 ~ Provisional ~54:FINANCIAL MANAGEMENT SYSTEM WITH PAYMENT PRIORITIZATION AND VIRTUAL BUDGETING ~71:Phumzile Skosana, 32 BANKVIEW SINETJHUDU STREET, South Africa ~72: Phumzile Skosana~ 33:ZA ~31:N/A ~32:01/03/2025

2025/01903 ~ Provisional ~54:TAMPER-EVIDENT SECURITY DEVICE FOR A RATCHET TIE-DOWN STRAP ~71:CRAMER, Brent, 4 SUMMERDALE CLOSE, JUKSKEI PARK, South Africa ~72: CRAMER, Brent~

2025/01899 ~ Provisional ~54:ELECTRONIC SHAFT & WINDER LOGBOOK APPLICATION ~71:Gert Hendrik Jacobus Verwey, 18 VILLA LUCIANA ESTATE, South Africa ~72: Gert Hendrik Jacobus Verwey~

2025/01904 ~ Complete ~54:A METHOD FOR ANALYZING THE NUTRITIONAL COMPONENTS OF SILAGE FEED ~71:Xinjiang Agricultural University, Nongda East Road No.311, the Xinjiang Uygur [Uighur] Autonomous Region, Urumqi, People's Republic of China ~72: Li Yuanqiu;Qi Jiangjiao;Tursunay Mamtimin;Wan Jiangchun;Yan An~ 33:CN ~31:2025101290353 ~32:05/02/2025

2025/01910 ~ Complete ~54:CRYSTALLINE POLYMORPH FORMS OF A TRPV1 ANTAGONIST AND FORMULATIONS THEREOF ~71:BAUSCH + LOMB IRELAND LIMITED, 3013 Lake Drive Citywest Business Campus, Ireland ~72: Donglei LIU;Heng GE;James J. POWERS;Julien PAPILLON;Stefan PEUKERT;Zhonglin SUN~ 33:CN ~31:PCT/CN2022/120270 ~32:21/09/2022

2025/01916 ~ Complete ~54:AFRICAN HORSE SICKNESS VIRUS (AHSV) VIRAL PROTEIN 2 (VP2) FUSION PROTEINS ~71:CSIR, Scientia, Meiring Naudé Road, Brummeria, Pretoria, 0184, South Africa ~72: MARTHA MAGARETHA O'KENNEDY;YOLANDY LEMMER~ 33:GB ~31:2213002.5 ~32:06/09/2022

2025/01900 ~ Provisional ~54:PHARMACEUTICAL COMPOSITION ~71:GORAM RESEARCH AND INVESTMENTS PROPRIETARY LIMITED, 8A Avenue Disandt, Fresnaye, Sea Point, Cape Town, 8005, SOUTH AFRICA, South Africa ~72: GORDON, Brent Michael~

2025/01911 ~ Complete ~54:IL-15 INHIBITORS USEFUL FOR THE TREATMENT OF ATOPIC DERMATITIS ~71:NOVARTIS PHARMA AG, Lichtstrasse 35, Switzerland ~72: CHVATCHKO MISSOTTEN, Yolande;VICARI, Alain~ 33:EP ~31:22188873.8 ~32:04/08/2022

2025/01908 ~ Complete ~54:APPLICATION OF HS1BP3 AND/OR CODING GENE THEREOF IN ENHANCING THE PHAGOCYTOSIS OF ANIMAL IMMUNE CELLS ~71:CHINA AGRICULTURAL UNIVERSITY, No.2 Yuanmingyuan West Road, Haidian District., Beijing, 100193, People's Republic of China ~72: LIAN, Ling;LIAN, Zhengxing;LIU, Shunqi;QI, Shiyu;WANG, Shuqi;ZHAO, Yue~ 33:CN ~31:202311312124.9 ~32:11/10/2023

2025/01909 ~ Complete ~54:SOLAR ENERGY SYSTEM ~71:DHP TECHNOLOGY AG, Weststrasse 7, Switzerland ~72: Gian Andri DIEM;Peter KASPER~ 33:CH ~31:CH000952/2022 ~32:12/08/2022

2025/01898 ~ Provisional ~54:ELECTROSTATIC POWER CONDITIONER (EPC) ~71:NYASHA SHEKEDE, 1B Main Road, Rosebank Rosebank 7700, South Africa ~72: NYASHA SHEKEDE~

2025/01902 ~ Provisional ~54:COMMUNICATION SYSTEM AND METHOD ~71:PRETORIUS, Stefan, 10 HM Swart Street, South Africa ~72: PRETORIUS, Stefan~

2025/01906 ~ Complete ~54:MASSAGE DEVICE FOR DAIRY COWS IN ANIMAL HUSBANDRY AND APPLICATON METHOD ~71:SHANXI AGRICULTURAL UNIVERSITY, No. 81 Longcheng Street, Xiaodian District, Taiyuan City, Shanxi Province, 030031, People's Republic of China ~72: Dong Chunguang;Han Wenru;Liu Wenjun;Wu Shouyan;Yang Lihua;Yang Ruojin~

2025/01907 ~ Complete ~54:POLYMORPH OF GLP-1R AGONIST COMPOUND, PREPARATION METHOD THEREFOR, AND USE THEREOF ~71:MINDRANK AI LTD., Unit 1901-1914, Bldg 2, 2 Kejiyuan Road, Baiyang Street, Qiantang District, Hangzhou, China (Zhejiang) Pilot Free Trade Zone, People's Republic of China;MINDRANK THERAPEUTICS (SUZHOU) NEW DRUG RESEARCH AND DEVELOPMENT CO., LTD, Unit 603, Building B1, Bio BAY Phase I, No. 218 Xinghu Street, Suzhou Industrial Park, Suzhou, China (Jiangsu) Pilot Free Trade Zone Suzhou, People's Republic of China ~72: HU, Yang;NIU, Zhangming;ZHANG, Long~ 33:CN ~31:202211096444.0 ~32:06/09/2022

2025/01913 ~ Complete ~54:WIRELESS POWER TRANSFER ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: AGAFONOV, Aleksei;DRAAK, Johannes Wilhelmus;LEBENS, Pascal Leonard Maria Theodoor~ 33:EP ~31:22188970.2 ~32:05/08/2022

- APPLIED ON 2025/03/04 -

2025/01945 ~ Complete ~54:AN AUTOMATED GAS STOVE KNOB ATTACHMENT FOR REMOTE AND ACCESSIBLE CONTROL ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: DESHPANDE, Leena A.;GHODE, Saurabh Dadasaheb;KULKARNI, Atul P.;KULKARNI, Venkatesh Krishnakant;SATHE, Abhirav Arun;THAWARE, Shailesh J.~

2025/01949 ~ Complete ~54:NOVEL COCRYSTALS OF METHYLXANTHINES, THEIR POLYMORPHS AND PROCESS THEREOF ~71:FERTIS INDIA PVT LTD, 6-3-668/10/56, Plot No 56, 1st Floor Durga Nagar Colony, Punjagutta Hyderabad, India ~72: KANUMURU, Rahul Raju;KOCHUMALAYIL, Shaji George;SURANENI, Ravikumar;VANA, Murali Mohanarao~ 33:IN ~31:202241049555 ~32:30/08/2022

2025/01936 ~ Complete ~54:A MEDICAL COLLEGE ADMISSION RECOMMENDATION SYSTEM BASED ON ENTRANCE EXAM SCORES ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: ANERAO, Prashant R.;CHAVHAN, Gajanan H.;CHINCHANIKAR, Satish S.;JAGDALE, Manoj N.;KARYAKARTE, Mandar;KULKARNI, Aparna Parag;POL, Rahul;RAUT, Ketan J.;SOMATKAR, Avinash Abhiman;WAWAGE, Pawan S.~

2025/01933 ~ Complete ~54:DOUBLE-LUMEN NEGATIVE PRESSURE FLUSHING DRAINAGE TUBE ~71:Yingtian City People's Hospital, No.1, Longhushan North Avenue, Xinjiang New District, Yingtian City, Jiangxi Province, 335000, People's Republic of China ~72: Peng RAO~

2025/01927 ~ Complete ~54:SODIUM ION BATTERY COMPOSITE ELECTRODE MATERIAL AND PREPARATION METHOD THEREOF ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: HUANG Xiaoya;LI Wei;WU Tianyu;ZHU Zhuangzhuang~

2025/01932 ~ Complete ~54:MOLECULAR MARKER-ASSISTED BREEDING DEVICE ~71:Shandong Agriculture And Engineering University, 866 Nongganyuan Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: LIU Jin;SUN Xiaoming;YANG Yaling~

2025/01961 ~ Provisional ~54:PHARAOH CODE ~71:JOZIGIRL COSMETICS PTY LTD, 7 ST KITTS STREET KLIPSPRUIT WEST, South Africa ~72: DIANNA BENNEDINE BROWN~

2025/01926 ~ Complete ~54:A CULTIVATION METHOD FOR LIMONIUM AUREUM SEEDLINGS ~71:Wuwei Academy of Forestry Sciences, Floor 13, Wuwei Agriculture, Forestry and Animal Husbandry Comprehensive Service Building, Minqin Road, Liangzhou District, Wuwei City, Gansu Province, 733000, People's Republic of China ~72: Chang Xuanxuan;Chen Yanhui;Dong Cunyuan;Gao Shengchun;He Cai;Hu Fang;Jin Min;Jin Na;Li Dong;Liu Wei;Pan Duoying;Ren Dequan;Wu Yuan;Ye Fang;Zhang Bin;Zhang Jun;Zhang Qinde;Zhang Tao~ 33:CN ~31:2025100874390 ~32:20/01/2025

2025/01939 ~ Complete ~54:AN AUTOMATED ANIMAL DETECTION FOR CROP PROTECTION SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: BHIMANPALLEWAR, Ratnmala;CHAVAN, Rohini;DESHMUKH, Shraddha Bhivraj;KARNIK, Madhuri;MAHAJAN, Rupali;PALIKUNDWAR, Shravan Mahesh;PATIL, Rasika Sunil;POKALE, Rohan Devanand;TIWASKAR, Shweta~

2025/01946 ~ Complete ~54:BRANCHED LIPID COMPOSITIONS, LIPID NANOPARTICLES (LNPS) COMPRISING THE SAME, AND METHODS OF USE THEREOF ~71:THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, 3600 Civic Center Boulevard, 9th Floor, Philadelphia, Pennsylvania, 19104, United States of America ~72: MARSHALL SCOTT PADILLA;MICHAEL J MITCHELL~ 33:US ~31:63/373,793 ~32:29/08/2022

2025/01955 ~ Complete ~54:INSTRUCTION SENDING METHOD, INSTRUCTION RECEIVING METHOD, COMMUNICATION NODE, AND STORAGE MEDIUM ~71:ZTE Corporation, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, SHENZHEN 518057, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: BIAN, Luanjian;DAI, Bo;HU, Youjun;LIU, Kun~ 33:CN ~31:202211700244.1 ~32:28/12/2022

2025/01924 ~ Provisional ~54:HEAP LEACHING OF COPPER SULPHIDE ORES ~71:MINTEK, 200 Malibongwe Drive, South Africa ~72: BASSON, Petrus;NDHLALOSE, Mpumelelo Success;NXUMALO, Duduzile Nontobeko;ROBERTSON, Stefan Walters~

2025/01925 ~ Provisional ~54:COILER ~71:Brandon Padayachee, 15 sable street, South Africa ~72: brandon Padayachee~

2025/01938 ~ Complete ~54:A WEARABLE ID CARD WITH REAL-TIME GESTURE RECOGNITION AND AUDIO FEEDBACK ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: BEWOOR, Laxmi;MALI, Manisha;PATIL, Tushar Babasaheb;RATHI, Snehal;SAINDANE, Harshwardhan Virendra;SAIPATWAR, Saksham Santosh;TIWASKAR, Shweta;WATTAMWAR, Aditya Ajit~

2025/01959 ~ Provisional ~54:KEEVA COVER ~71:EVA MALULEKE, THE MANHATTAN LIFESTYLE ESTATE AMBERFIELD, South Africa ~72: EVA MALUKEKE~

2025/01953 ~ Complete ~54:MASKING POLYPEPTIDE, ACTIVATABLE NOVEL PRODRUGS AND METHODS OF USE THEREOF ~71:STADSON BIOPHARMA INC., 2600 Hilltop Drive, Richmond, United States of America ~72: ZHAI, Wenwu~ 33:US ~31:63/370,605 ~32:05/08/2022;33:US ~31:63/370,606 ~32:05/08/2022;33:US ~31:63/370,607 ~32:05/08/2022;33:US ~31:63/477,993 ~32:30/12/2022

2025/01928 ~ Complete ~54:EXPANDABLE SODIUM-ION BATTERY MODULE STRUCTURE ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: LI Wei;TIAN Haolei;WU Tianyu~

2025/01930 ~ Complete ~54:EXERCISE DEVICE FOR FINGER REHABILITATION OF RHEUMATOID ARTHRITIS ~71:Tianjin First Center Hospital, No. 24, Fukang Road, Nankai District, Tianjin, 300192, People's Republic of China ~72: Li Yuan;Yan Lei~

2025/01957 ~ Complete ~54:MICELLAR MYCOLATE COATED CARBON ELECTRODES FOR ELECTROCHEMICAL IMPEDANCE IMMUNOASSAY ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: BAUMEISTER, Carl Robert;MOLATSELI, Mosa Jennifer;OKEKE, Ikechukwu, Emmanuel;RAGAVALOO, Arthessa;VERSCHOOR, Jan Adrianus~ 33:ZA ~31:2022/10098 ~32:12/09/2022

2025/01944 ~ Complete ~54:AN IOT-BASED PREDICTIVE MAINTENANCE SYSTEM FOR PROACTIVE EQUIPMENT MANAGEMENT IN HEALTHCARE ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: DONGRE, Ganesh;KOKATE, Kshitij Sanjay;MAHALLE, Parikshit;PAWAR, Aditya Manish;PAWAR, Priyanshi Ramesh;SABALE, Pritam Shashikant;SHEDGE, Yash Pravin;SHINDE, Swapnil K.;SULE, Bipin;TAKALE, Datta;YADAV, Gitanjali Bhimrao~

2025/01951 ~ Complete ~54:GLUCAGON-LIKE-PEPTIDE-2 (GLP-2) ANALOGUES AND THEIR MEDICAL USES FOR THE TREATMENT OF SHORT BOWEL SYNDROME (SBS) ~71:ZEALAND PHARMA A/S, Sydmarken 11, Denmark ~72: AGERSNAP, Mikkel Askjær;NIELSEN, Thor Schütt Svane~ 33:US ~31:63/377,868 ~32:30/09/2022

2025/01940 ~ Complete ~54:A PORTABLE SOLAR POWER BANK WITH MOBILE STAND FOR CHARGING MOBILE DEVICES AND ACCESSORIES ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: CHINCHOLKAR, Manasvi Ashok;CHORMALE, Aboli Suryakant;DHUMAL, Amol;GAIKWAD, Ritesh Sambhaji;MALAVADE, Geet Vishal;PANDIT, Deepti;PAWAR, Sangram Uttam;RATHOD, Praveen;SHINDE, Pranav Ashok~

2025/01960 ~ Provisional ~54:MOBILE ENERGY STORAGE SYSTEM TO SUPPORT MULTIPLE TELECOMMUNICATIONS TOWERS ~71:Tennyson Alfred Mocheke Tebogo Seko, 51 Jewel Beetle Street, Swallow Hills Estate, No 5, South Africa ~72: Tennyson Alfred Mocheke Tebogo Seko~ 33:ZA ~31:1 ~32:03/03/2025

2025/01950 ~ Complete ~54:HELICAL CENTER DRIVE GEARBOX FOR ENCLOSING GEARBOX COMPONENTS ~71:VALMONT INDUSTRIES, INC., 15000 Valmont Plaza Omaha, United States of America ~72: KUMAR, Shobhit;SANTELMAN, Steven C.;TOMAN, Benjamin J.~ 33:US ~31:63/396,258 ~32:09/08/2022

2025/01954 ~ Complete ~54:METHODS FOR PRODUCING OPTICAL EFFECT LAYERS COMPRISING MAGNETIC OR MAGNETIZABLE PIGMENT PARTICLES AND EXHIBITING ONE OR MORE INDICIA ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: PITTET, Hervé;VEYA, Patrick~ 33:EP ~31:22189085.8 ~32:05/08/2022

2025/01943 ~ Complete ~54:A PRESSURE COOKER WHISTLES COUNTING AND REGULATING THE INDUCTION STOVE DEVICE ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: CHAUDHARI, Lajari Manoj;GAIKWAD, Vidya Shrimant;JIVAN, Rahade Nikita;KARNIK, Madhuri Prashant;KUMBHAR, Shlok Dinesh;MANIKJADE, Akshay Ashok;MISHRA, Vaishali;RATHOD, Praveen Pomu;WANKHEDE, Disha Sushant~

2025/01941 ~ Complete ~54:A SYSTEM FOR READING ANALOG METER GAUGES AND ACTIVATING ALERTS UPON EXCEEDING PREDEFINED LIMITS USING COMPUTER VISION TECHNIQUES ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, (1) 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: BAHIR, Prathmesh Namdeo;CHITRE, Abhijit;DESHMUKH, Minal S.;GHULE, Gauri;HABBU, Shraddha K.;RAUT, Ketan J.;SONAWANE, Atharva~

2025/01947 ~ Complete ~54:INTRA PREDICTION MODE IMPROVEMENTS BASED ON AVAILABLE REFERENCE SAMPLES ~71:INTERDIGITAL CE PATENT HOLDINGS, SAS, 3 rue du Colonel Moll, 75017, Paris, France ~72: KARAM NASER;KEVIN REUZE;PHILIPPE BORDES;THIERRY DUMAS~ 33:EP ~31:22306523.6 ~32:11/10/2022;33:EP ~31:22306799.2 ~32:07/12/2022;33:EP ~31:23305496.4 ~32:05/04/2023

2025/01948 ~ Complete ~54:COMPOSITIONS FOR DELIVERY OF LIVER STAGE ANTIGENS AND RELATED METHODS ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany ~72: ASAF PORAN;DANIEL ABRAM ROTHENBERG;RAQUEL MARISKA FURTADO;THERESA ADDONA;THOMAS ZIEGENHALS;UGUR SAHIN~ 33:US ~31:PCT/US2022/044625 ~32:23/09/2022;33:US ~31:63/515,331 ~32:24/07/2023

2025/01952 ~ Complete ~54:PHARMACEUTICAL FORMS OF A CD73 INHIBITOR ~71:ORIC PHARMACEUTICALS, INC., 240 E. Grand Avenue, 2nd Floor, United States of America ~72: AL-SAYAH,

Mohammad;KOPPENOL, Sandy;KUMAR, Archana;MILBURN, Robert Ronald;NARANG, Ajit Singh~ 33:US
~31:63/375,580 ~32:14/09/2022;33:US ~31:63/497,323 ~32:20/04/2023

2025/01956 ~ Complete ~54:RNA INHIBITOR FOR INHIBITING APOC3 GENE EXPRESSION AND USE
THEREOF ~71:Kylonova (Xiamen) Biopharma Co., Ltd., Room 302, No. 120, Xin Yuan Rd., Haicang District,
XIAMEN 361022, FUJIAN, CHINA (P.R.C.), People's Republic of China ~72: CUI, Kunyuan;LU, Xueqin~ 33:CN
~31:202210936491.5 ~32:05/08/2022;33:CN ~31:202310260531.3 ~32:17/03/2023;33:CN
~31:202310655563.3 ~32:05/06/2023

2025/01931 ~ Complete ~54:DELIVERY DEVICE FOR PRODUCING SECONDARY ZINC OXIDE ~71:Chongqing
Wanbo Renewable Resources Utilization Co., Ltd., Group 2, Chuanzhu Village, Longtan Town, Youyang County,
Chongqing, People's Republic of China ~72: QIN, Zhigang;WANG, Debo;YAO, Chuan~

2025/01942 ~ Complete ~54:AN IOT BASED IDENTIFICATION OF FUNGAL DISEASE IN NUTMEG LEAVES
USING A MACHINE LEARNING APPROACH ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666,
UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72:
AVHAD, Pawan;DONGRE, Ganesh;GUPTA, Chirangi;HUDDAR, Nilaya Devdatta;MAHALLE, Parikshit N.;PATIL,
Ratna;SULE, Bipin;TAKALE, Datta;YADAV, Gitanjali B.~

2025/01929 ~ Complete ~54:METHOD FOR IMPROVING ENERGY DENSITY OF SODIUM-ION BATTERIES
~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan
City, Henan Province, People's Republic of China ~72: LI Wei;TIAN Haolei;ZHU Zhuangzhuang~

2025/01935 ~ Complete ~54:A STOVE ~71:HADLOW, William Albert, 15 Kronendal Street, Dalsig, South Africa
~72: HADLOW, William Albert~ 33:ZA ~31:2024/01849 ~32:05/03/2024

2025/01937 ~ Complete ~54:A SMART GLASS WITH AI-BASED HAND GESTURE RECOGNITION FOR
SCREEN CONTROL ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER
INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: CHAVHAN, Gajanan
Himmatrao;CHAVHAN, Pranali Gajanan;JUZAR, Naquiya;KALE, Kaustubh;KUMAVAT, Pravin;MARAL, Vikas
Balasaheb;SHINDE, Gitanjali Rahul;WANKHEDE, Disha Sushant~

2025/01958 ~ Provisional ~54:RES-Q-BEE ~71:NORMAN CLIFFORD VENN, 89 PITZER ROAD GLEN AUSTIN,
South Africa ~72: NORMAN CLIFFORD VENN~

2025/01934 ~ Complete ~54:METHOD FOR PREVENTING AND CONTROLLING NITROGEN AND
PHOSPHORUS NON-POINT SOURCE POLLUTION IN FARMLAND ~71:Zhengzhou University of Aeronautics,
15 Wenyuan West Road, Zhengdong New District, Zhengzhou City, Henan Province, People's Republic of China
~72: DANG Hongbin;GAO Junxia;LI Jianyun;LI Xueping;YANG Jingjing~

- APPLIED ON 2025/03/05 -

2025/01964 ~ Provisional ~54:AN ANCHOR ARRANGEMENT ~71:BOTHA, Raymond, Mark, 8 PANORAMA
HOF, CONVENT STREET, GREENHILLS, RANDFONTEIN, 1759, South Africa ~72: BOTHA, Raymond,
Mark;MARSHALL, Elton;MARSHALL, Garth~

2025/01965 ~ Provisional ~54:DIGITAL WALLET SYSTEM FOR EMERGENCY CASH WITHDRAWALS AND
SERVICES WITH INTEREST-EARNING CAPABILITIES ~71:Dashen Dasigan Naidoo, 89 Dower Village, 2
Beech Avenue, Marais Steyn Park, South Africa ~72: Dashen Dasigan Naidoo~ 33:ZA ~31:N/A ~32:04/03/2025

2025/01970 ~ Complete ~54:AN ANTI-CORROSION SHELL STRUCTURE OF AN OFFSHORE ENGINEERING
PLATFORM AND A CONSTRUCTION METHOD THEREOF ~71:Beibu Gulf University, No. 12 Binhai Avenue,

Binhai New Town, Qinnan District, Qinzhou City, Guangxi Zhuang Autonomous Region, 535011, People's Republic of China ~72: Guosheng Yang;Jianmiao Huang;Jun Xu;Qing Li;Shengning Lan;Yang Huang;Zhenliang Lin~

2025/01974 ~ Complete ~54:AN INTERNATIONAL TRADE CARGO TRANSPORT BOX ~71:Huainan Normal University, Dongshan West Road, Tianjia'an District, Huainan City, Anhui Province, 232038, People's Republic of China ~72: Qiufang Ma;Wenjin Zhang~

2025/01978 ~ Complete ~54:AN AI AND ML DRIVEN HANDWRITING AND GESTURE INTERFACE ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: DABHADE, Vivek Bhaushab;MAHALLE, Parikshit Narendra;SHELKE, Ajinkya;SHIMPI, Abhinav Nandkishor;WANKHADE, Shalini Vaibhav;YELEKAR, Vansh Pravin~

2025/01982 ~ Complete ~54:A SENSOR-BASED AUTOMATED FLUSH AND FRAGRANCE DISPENSING SYSTEM FOR PUBLIC RESTROOMS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: BOTHE, Utkarsh Dinkar;CHAUDHARI, Vaishnavi Sanjay;DESHPANDE, Leena A.;DEVKAR, Sairaj Shahaji;DHOOT, Mithilesh Pawankumar;KHOND, Vedant Santosh;MENGANE, Kartik Anand;THAWARE, Shailesh J.~

2025/01987 ~ Complete ~54:SUBSTITUTED PYRIDINONE COMPOUNDS AS CBL-B INHIBITORS ~71:GLENMARK PHARMACEUTICALS LIMITED, B/2, MAHALAXMI CHAMBERS, 22, BHULABHAI DESAI ROAD, MAHARASHTRA, MUMBAI 400026, INDIA, India ~72: CHAUDHARI, Sachin;CHINNAPATTU, Murugan;DAS, Sanjib;GAVHANE, Balasaheb;GOWDA, Nagaraj;IYER, Pravin;KADAM, Sheetal;SAINI, Jagmohan;SHELKE, Sandeep;WAGHMARE, Nayan~ 33:IN ~31:202221046493 ~32:16/08/2022

2025/01995 ~ Complete ~54:TIMING ADVANCE REFINEMENT PROCEDURE ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: ARVOLA, Antti;ENESCU, Mihai;GOUDA, Bikshapathi;HAKOLA, Sami-Jukka;KARJALAINEN, Juha, Pekka;KOSKELA, Timo;TÖLLI, Antti~ 33:FI ~31:20225718 ~32:12/08/2022

2025/02010 ~ Complete ~54:AGITATOR MILL HAVING SPECIAL DRIVERS ~71:Netzsch-Feinmahltechnik GmbH, Sedanstraße 70, SELB 95100, GERMANY, Germany ~72: MÖSCHL, Holger;SUDERMANN, Witali~ 33:DE ~31:10 2022 122 868.1 ~32:08/09/2022

2025/02011 ~ Complete ~54:ENVIRONMENT RELATED DATA MANAGEMENT FOR A MOBILE MINING VEHICLE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: PUURA, Jussi;VON ESSEN, Tomi~ 33:EP ~31:22196732.6 ~32:20/09/2022

2025/02014 ~ Complete ~54:CLEARANCE ABNORMALITY DETECTION METHOD AND APPARATUS FOR WIND TURBINE GENERATOR SET ~71:BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD., No. 19, Kangding Road, Beijing Economic & Technological Development Zone, Daxing District, Beijing, 100176, People's Republic of China ~72: HAITAO FANG;JIAYING LI;SUPING SU;WENLEI ZHANG~ 33:CN ~31:202211734407.8 ~32:30/12/2022

2025/02018 ~ Complete ~54:SEPARATION OF RARE EARTH ELEMENTS IN AN ENVIRONMENT WITH LOW PARTIAL PRESSURES OF OXYGEN CONTAINING GASES ~71:SHINE TECHNOLOGIES, LLC, 3400 Innovation Ct., Janesville, Wisconsin, 53546, United States of America ~72: CHARLES SHACKETT;ERIC VAN ABEL;GREG PIEFER;RICHARD SISSON;THOMAS DRURY~ 33:US ~31:63/404,080 ~32:06/09/2022

2025/01980 ~ Complete ~54:A VEHICLE-TO-EVERYTHING (V2X) COMMUNICATION SYSTEM FOR ENHANCED ROAD SAFETY ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: CHAUDHARI, Prasad;CHAVHAN, Gajanan H.;CHAVHAN, Pranali G.;MAHALLE, Parikshit N.;MATHURKAR, Piyush;MEHTA, Pradnya S.;NAIK, Pratiksha;RAHATE, Sneha;SHINDE, Sakshi;VARADE, Isha;VIBHUTE, Akshata;WANKHEDE, Disha Sushant~

2025/01985 ~ Complete ~54:A DUMP TRUCK BODY ~71:AUSTIN ENGINEERING LIMITED, 100 Chisholm Crescent, Kewdale, Australia ~72: HALL, Jamie Vincent Clarke;WESSELS, Deon~ 33:AU ~31:2022902294 ~32:12/08/2022

2025/01990 ~ Complete ~54:CAPTURING TRUNCATED PROTEOFORMS IN EXHALED BREATH FOR DIAGNOSIS AND TREATMENT OF DISEASES ~71:ZETEO TECH, INC., 6935 WARFIELD AVE., SYKESVILLE, MD 21784, USA, United States of America ~72: BRYDEN, Wayne, A.;CHEN, Dapeng;MCCLOUGHLIN, Michael~ 33:US ~31:17/886,443 ~32:11/08/2022

2025/01998 ~ Complete ~54:APPARATUS, METHODS, AND COMPUTER PROGRAMS ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: GKATZIKIS, Lazaros;GKELLAS, Georgios;LIEBHART, Rainer;PÖYHÖNEN, Ville Petteri;TUONONEN, Janne Einari~ 33:GB ~31:2211695.8 ~32:10/08/2022

2025/02013 ~ Complete ~54:FIXTURE AND METHOD FOR OPTICAL ALIGNMENT IN A SYSTEM FOR MEASURING A SURFACE IN CONTOURED GLASS SHEETS ~71:GLASSTECH, INC., 995 Fourth Street Ampoint Industrial Park, Perrysburg, Ohio, 43551, United States of America ~72: BENJAMIN L MORAN;JASON C ADDINGTON;MICHAEL J VILD~ 33:US ~31:17/884,116 ~32:09/08/2022

2025/02017 ~ Complete ~54:MEASUREMENT ASSEMBLIES AND METHODS FOR MEASURING NOSE GAP IN PUMPS ~71:KSB GIW, INC., 5000 Wrightsboro Road Grovetown, Georgia, 30813, United States of America ~72: JAMES A BAKER;VIKTOR LEONTYEV~ 33:US ~31:63/411,368 ~32:29/09/2022

2025/01966 ~ Provisional ~54:SMART INSURANCE EXCESS ~71:Breezeman Chabalala, Unit 121 Halfway Parks 10 van heerden ave, South Africa ~72: Breezeman Chabalala~ 33:ZA ~31:1 ~32:04/03/2025

2025/01969 ~ Complete ~54:ENGLISH LISTENING TRAINING HEADPHONES FOR ENGLISH TEACHING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan, Henan Province, 467041, People's Republic of China ~72: GUO Chenyu;HOU Jingwen;TIAN Guoguo;XU Wenhua~

2025/01975 ~ Complete ~54:URBAN RAINWATER COLLECTING AND RECYCLING DEVICE ~71:Jining Normal University, No.59 Gongnong Street, Jining District, Ulanqab City, Inner Mongolia, 012000, People's Republic of China ~72: Cairui Fan;Hui Zheng;Jisheng Li;Teng Wang;Xiu Li;Yongfeng Zhao~ 33:CN ~31:202410989833.9 ~32:23/07/2024

2025/01983 ~ Complete ~54:AN INTELLIGENT MEDICATION REMINDER BAND WITH INTEGRATED AI ASSISTANT ~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;KHUSPE, Sharvari;MANIKJADE, Akshay Ashok;MISHRA, Vaishali;SHIKHARE, Mrunali;TILEKAR, Vaishnavi;WANKHEDE, Disha Sushant;YADAV, Pratiksha~

2025/01992 ~ Complete ~54:QOE FOR RRC-IDLE MODE ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DECARREAU, Guillaume;HE, Jing;HELMERS, Hakon;TOMALA, Malgorzata~

2025/02016 ~ Complete ~54:SELF-ASSEMBLING NANOPARTICLES ~71:BARINTHUS THERAPEUTICS NORTH AMERICA, INC., 20400 Century Blvd. Suite 210, Germantown, Maryland, 20874, United States of America;THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, The office of technology transfer, National Institutes of health 6701 Rockledge Drive, Suite 700, MSC 7788 Bethesda, MSC 7788 Bethesda, Maryland, 20892-7788, United States of America ~72: ANDREW SCOTT ISHIZUKA;CHRISTOPHER MARTIN O'BRIEN GARLISS;GEOFFREY MARTIN LYNN;HUGH CLARKE WELLS~ 33:US ~31:63/380,931 ~32:25/10/2022

2025/02006 ~ Complete ~54:DEVICE FOR THE RAPID TRANSFER OF THERMAL ENERGY, METHOD FOR THE REALIZATION OF THE SAID DEVICE AND SYSTEM FOR THE PRODUCTION OF ZERO-EMISSIONS ELECTRICITY FROM OTHER RENEWABLE SOURCES INTEGRATED WITH THE SAID DEVICE ~71:Cosmo TURANO, Villaggio Olivella 1, 6921 CH 6921, Vico Morcote, Switzerland;Elis MANTOVANI, Via Dei Bonoli 14, 6932 CH 6932, Breganzona, Switzerland ~72: Cosmo TURANO;Elis MANTOVANI~

2025/02009 ~ Complete ~54:CLAMPING SPRING FOR HOLDING DOWN A TRACK BODY ELEMENT ~71:voestalpine Railway Systems GmbH, Kerpelystraße 199, LEOBEN 8700, AUSTRIA, Austria;voestalpine Turnout Technology Zeltweg GmbH, Alpinestraße 1, ZELTWEG 8740, AUSTRIA, Austria ~72: BREITEGGER, Stefan;HÖLZL, Wolfgang;MAYER, Thomas~ 33:EP ~31:22020414.3 ~32:29/08/2022

2025/02012 ~ Complete ~54:A METHOD AND SYSTEM FOR REMOTE CHLOROPHYLL DETECTION AND DETERMINATION OF MEASUREMENT REGIONS FOR CHLOROPHYLL DIRECT MEASUREMENT ~71:YARA INTERNATIONAL ASA, Drammensveien 131, Norway ~72: REUSCH, Stefan~ 33:EP ~31:22196661.7 ~32:20/09/2022

2025/02020 ~ Complete ~54:TREATMENT OF COMPLEMENT MEDIATED DISEASES AND DISORDERS WITH C3B-ANTIBODIES ~71:VISTERRA, INC., 275 2nd Avenue, United States of America ~72: ADARI, Hedy;GAO, Feng;RAMAKRISHNAN, Ramki;VISWANATHAN, Karthik;WOLLACOTT, Andrew~ 33:US ~31:63/376,305 ~32:20/09/2022

2025/02026 ~ Provisional ~54:DINEEASE ~71:Nthabiseng Ngwenya, 5373 Avante Country Estate, The Orchards, Akasia, South Africa ~72: Nthabiseng Ngwenya~ 33:ZA ~31:192834 ~32:28/02/2025

2025/02061 ~ Provisional ~54:AFRIICAST ~71:NTLHANE MATTHEWS MASOLA, 304 OAK AVENUE FERNDALE, South Africa ~72: NTLHANE MATTHEWS MASOLA~

2025/01963 ~ Provisional ~54:ROCK EXTEN ~71:Mining Product Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2025/01967 ~ Complete ~54:BLOOD AND ANIMAL COMPONENT-FREE MEDIA AND A FERMENTATION METHOD FOR PRODUCING BACTERIAL POLYSACCHARIDES THEREFROM ~71:SERUM INSTITUTE OF INDIA PRIVATE LIMITED, 212/2, Off Soli Poonawalla Road, Hadapsar, India ~72: DHERE, Rajeev Mhalasakant;GHOLAP, Makarand Madhukar;JANA, Swapan Kumar;KESARKAR, Shrikant Mahadev;MAHAJAN, Amol Dattatraya;PATIL, Sudarshan Namdev~ 33:IN ~31:202521003423 ~32:15/01/2025

2025/01973 ~ Complete ~54:EVAPORATIVE COOLING TYPE REFRIGERATION SUNSHADE TENT ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: JIN Junjie;WANG Shuai;ZHANG Peilu;ZHAO Xingtao~

2025/01979 ~ Complete ~54:A SMART NAVIGATION SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, -

411037, India ~72: DEDGAONKAR, Suruchi;FUTANE, Pravin;GODKAR, Soham;INGOLE, Shrey;KODMELWAR, Manohar;WAKLEKAR, Pranav;YERAWAD, Shailesh~

2025/01981 ~ Complete ~54:AN INTELLIGENT SCARECROW SYSTEM POWERED BY DEEP LEARNING ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: BHAND, Aarohi;BHAND, Rahi;KOLEKAR, Vikas Kanifnath;MORE, Priyanka Dhananjay;SAKHARE, Sachin Rambhau~

2025/01991 ~ Complete ~54: COSMETIC TOPICAL COMPOSITION FOR IMPROVING CAPILLARY DENSITY CONTAINING AS ACTIVE INGREDIENT AT LEAST AN OILY EXTRACT OF MORINGA PEREGRINA SEEDS, METHOD FOR PREPARING THE COMPOSITION AND METHOD FOR COSMETIC TREATMENT OF HAIR. ~71:ALULA PEREGRINA TRADING, AZIZIA DISTRICT, AL-MADINA AL-MUNAWWARAH STREET, AIULA CITY, 43514, SAUDI ARABIA, France ~72: BOURGETEAU, Vincent;DODINET, Elisabeth~ 33:EP ~31:22189337.3 ~32:08/08/2022

2025/02002 ~ Complete ~54:METHODS AND DEVICES FOR UPLINK TRANSMISSION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: ENESCU, Mihai;HAKOLA, Sami-Jukka;KARJALAINEN, Juha, Pekka;KOSKELA, Timo~

2025/02015 ~ Complete ~54:MACROCYCLIC COMPOUNDS, COMPOSITIONS, AND METHODS OF USING THEREOF ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, Massachusetts, 02141, United States of America;SIONNA THERAPEUTICS INC., 21 Hickory Drive, Suite 500, Waltham, Massachusetts 02451, United States of America ~72: ANATOLY RUVINSKY;ANDREW GOOD;ARIELLE GENEVOIS BORELLA;BRADFORD HIRTH;DAVID BORCHERDING;ERIC NICOLAI;FABIENNE THOMPSON;FRANCK CAUSSANEL;FRANCK SLOWINSKI;GEORGE TOPALOV;GREGORY DONALD HURLBUT;HEINER GLOMBIK;INGRID DEVILLERS;JINYU LIU;JOHN E MACOR;JUNKAI LIAO;LOTHAR SCHWINK;MARK MUNSON;MICHAEL KOTHE;MICHAEL PODESCHWA;NILS RACKELMANN;PATRICK BERNARDELLI;ROY VAZ;STEFAN GUESSEGEN;SUKANTHINI THURAIRATNAM;SVEN RUF;YI LI;ZHONGLI GAO~ 33:US ~31:63/404,440 ~32:07/09/2022

2025/02019 ~ Complete ~54:ENHANCED DIAZOTROPHIC MICROORGANISMS FOR USE IN AGRICULTURE ~71:BIOCONSORTIA, INC., 279 Cousteau Place, United States of America ~72: ALFORD, Betsy;CURTIS, Damian;GIBSON, Donald;MALIN, John;WILLIAMS, Thomas~ 33:US ~31:63/376,601 ~32:21/09/2022

2025/02021 ~ Provisional ~54:BECOMING ~71:KHOLOFELO MARUPUTLA JUNIOR MASHATOLE, FLAT NO.375, LITTLE MANHATTAN, South Africa ~72: KHOLOFELO MARUPUTLA JUNIOR MASHATOLE~

2025/02024 ~ Provisional ~54:ADVANCE PROOF OF RESIDENTIAL ADDRESS APPLIED ON CELLPHONE SCREEN VIA APP ~71:GEORGE MAKHAYA MASOMBUKA, 1707 ALLEMANS DRIFT, BUTHI, South Africa ~72: GEORGE MAKHAYA MASOMBUKA~

2025/01971 ~ Complete ~54:ORGANIC FERTILIZER BASED ON MOREL MUSHROOM RESIDUE AND ITS APPLICATION IN GREEN AND EFFICIENT CULTIVATION OF RICE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: HAN Yu;JING Haoran;LI Zhi;NIE Xuanli;QI Mengying;WEI Pengfei;ZHANG Qiang~

2025/01997 ~ Complete ~54:SPATIAL CONFIGURATION ADAPTATION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DEGHEL, Matha;ENESCU, Mihai;LADDU, Keeth, Saliya, Jayasinghe;TOSATO, Filippo~

2025/01999 ~ Complete ~54:SECURITY KEY MANAGEMENT IN DUAL CONNECTIVITY OPERATION
~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: AWADA,
Ahmad;GÜRSU, Halit Murat;SELVAGANAPATHY, Srinivasan~ 33:IN ~31:202241045426 ~32:09/08/2022

2025/01976 ~ Complete ~54:INDOLE DERIVATIVES AS RAS INHIBITORS IN THE TREATMENT OF CANCER
~71:REVOLUTION MEDICINES, INC., 700 Saginaw Drive, Redwood City, California, 94063, United States of
America ~72: ADRIAN L GILL;ANDREAS BUCKL;BIANCA JENNIFER LEE;DAVID E WILDES;ELENA S
KOLTUN;G. LESLIE BURNETT;JAMES CREGG;JOHN E KNOX;MALLIKA SINGH;MEGHAN A RICE;NAING
AAY;YANG LIU~ 33:US ~31:63/078,802 ~32:15/09/2020;33:US ~31:63/129,231 ~32:22/12/2020;33:US
~31:63/184,412 ~32:05/05/2021;33:US ~31:63/192,775 ~32:25/05/2021

2025/01988 ~ Complete ~54:PRIORITY RULES FOR CSI REPORTS FOR COHERENT JOINT TRANSMISSION
~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72:
GAO, Shiwei;MURUGANATHAN, Siva~ 33:US ~31:63/397,521 ~32:12/08/2022

2025/01993 ~ Complete ~54:REFERENCE INFORMATION FOR REFERENCE SIGNAL TIME DIFFERENCE
~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: CHA, Hyun-
Su;KEATING, Ryan~ 33:US ~31:63/371,098 ~32:11/08/2022

2025/02005 ~ Complete ~54:FROTH PUMP ASSEMBLY AND PARTS THEREOF ~71:WEIR MINERALS
AUSTRALIA LTD, 1 Marden Street, Australia ~72: DUONG, Chi Huy;HANHINIEMI, Jeremy
John;WEERASEKARA, Nirmal Srinada~ 33:AU ~31:2022902763 ~32:22/09/2023

2025/02060 ~ Provisional ~54:SURFING LEASH/LEG-ROPE GUICK RELEASE CLIP ~71:JOHN DANIEL
VENTER, 66 CLUVER CRESCENT BLUFF KWA-ZULU NATAL, South Africa ~72: JOHN DANIEL
VENTER;JOHN DANIEL VENTER~

2025/02023 ~ Provisional ~54:AUDIO CALL MESSAGE FOR PUBLIC ANNOUNCEMENT (CALL CENTRE)
MEMEZELA APP ~71:GEORGE MAKHAYA MASOMBUKA, 1707 ALLEMANSDRIFT, BUTHI, South Africa ~72:
GEORGE MAKHAYA MASOMBUKA ~

2025/01968 ~ Complete ~54:BUILDING CONSTRUCTION MONITORING DEVICE BASED ON BIM
TECHNOLOGY ~71:JI'AN COLLEGE, NO. 133 JI'AN SOUTH AVENUE, People's Republic of China ~72: CAO,
Fangfeng;HUANG, Cheng;LIU, Qiankun;QIN, Yulan;XIAO, Chengpeng;XIE, Tianyi;ZHOU, Haifeng;ZHOU, Min~

2025/01962 ~ Provisional ~54:LOAD MEASURING AND LOAD INDICATOR - LOADCELL ~71:Mining Product
Developments (Pty)Ltd, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark
Howell~

2025/01972 ~ Complete ~54:ONSHORE FLOATING POWER GENERATION SYSTEM ~71:Shaanxi Kerlimar
Engineers Co., Ltd., Room 2707, Building C, Daduhui, Keji Road, Yanta District, Xi'an City, Shaanxi Province,
710000, People's Republic of China ~72: SUN, Ming~

2025/01977 ~ Complete ~54:A SOILLESS FARMING SYSTEM ~71:VISHWAKARMA INSTITUTE OF
TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, -
411037, India ~72: ANERAO, Prashant R.;CHAVAN, Gajanan H.;CHINCHANIKAR, Satish S.;DESHPANDE,
Abhijeet R.;HANDE, Harshal Umesh;JAGDALE, Manoj Narsing;KURULEKAR, Mahesh S.;PATIL, Vaishali
Arun;RAMTHITIKAR, Chandrashekhar R.;SHAH, Rishi Ajay;SOMATKAR, Avinash Abhiman;WAWAGE, Pawan
S.~

2025/01984 ~ Complete ~54:A METHOD FOR PREPARING GARLIC POWDER WITH A HIGH ALLIIN CONTENT BY ULTRA-LOW-TEMPERATURE RAPID FREEZE-DRYING ~71:XINJIANG AGRICULTURAL VOCATIONAL AND TECHNICAL UNIVERSITY, No. 29, Wenhua East Road, Changji City, People's Republic of China ~72: LIU, Xuxin;MA, Xin;Tuerxunnayi DILIXIATI~ 33:CN ~31:2024112798730 ~32:12/09/2024

2025/01986 ~ Complete ~54:A PHARMACEUTICAL COMPOSITION OF SALBUTAMOL AND PHARMACEUTICAL GREEN PROPELLANT ~71:CIPLA LIMITED, Cipla House Peninsula Business Park, Ganpatrao Kadam Marg, Lower Parel, Mumbai, India ~72: BHADAURIA, Pradeep;ROTE, Kiran~ 33:IN ~31:202221045748 ~32:10/08/2022;33:IN ~31:202221045818 ~32:10/08/2022

2025/01989 ~ Complete ~54:USER EQUIPMENT AND BASE STATION ~71:PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, 2050 W 190TH STREET SUITE 450, TORRANCE, CA 90504, USA, United States of America ~72: LI, Hongchao;SUZUKI, Hidetoshi~ 33:EP ~31:22190171.3 ~32:12/08/2022

2025/01994 ~ Complete ~54:DEVICES, METHODS, APPARATUSES, AND COMPUTER READABLE MEDIA FOR CONFIGURED GRANT ACTIVATION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KAIKKONEN, Jorma, Johannes;KOSKELA, Jarkko, Tuomo;LASELVA, Daniela;WU, Chunli~

2025/02001 ~ Complete ~54:CONTROLLING CONFIGURATION ACTIVITIES IN A WIRELESS TELECOMMUNICATIONS NETWORK ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: AWADA, Ahmad;BALAN, Irina-Mihaela;GÜRSU, Halit Murat;KARABULUT, Umur;SELVAGANAPATHY, Srinivasan~ 33:IN ~31:202241045425 ~32:09/08/2022

2025/02004 ~ Complete ~54:REDUCING CELL ACTIVATION DELAY ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DALSGAARD, Lars;DU, Lei;YOON, Daejung~

2025/02007 ~ Complete ~54:CRACK-RESISTANT BASALT FIBER ASPHALT PAVEMENT STRUCTURE ~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: GAO, Yanlong;LI, Wenkai;LIU, Jiaqi;SHAO, Jinggan;WANG, Baolin;WANG, Junchao;XIE, Xiangbing~ 33:CN ~31:202420069690.5 ~32:11/01/2024

2025/02025 ~ Provisional ~54:SIDE PUMP NOZZLE SOAP POUCH DISPENSER ~71:KHUTSO MOTSETSE TROY MOKOELE, 626 ITUMELENG STREET, ZONE D, PALESA, South Africa ~72: KHUTSO MOTSETSE TROY MOKOELE~

2025/02022 ~ Provisional ~54:INFLUENCE ~71:KHOLOFELO MARUPUTLA JUNIOR MASHATOLE, FLAT NO.375, LITTLE MANHATTAN, South Africa ~72: KHOLOFELO MARUPUTLA JUNIOR MASHATOLE ~

2025/01996 ~ Complete ~54:MOBILITY SUPPORT IN A COMMUNICATION NETWORK ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: ALI, Amaanat;AWADA, Ahmad;GÜRSU, Halit Murat;KARABULUT, Umur;SELVAGANAPATHY, Srinivasan;STANCZAK, Jędrzej~ 33:IN ~31:202241045700 ~32:10/08/2022

2025/02000 ~ Complete ~54:CELL RESELECTION MECHANISMS INTERWORKING ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: AWADA, Ahmad;BULAKCI, Ömer;ELMALI, Ugur Baran;GODIN, Philippe;GÜRSU, Halit Murat;KOSKELA, Jarkko, Tuomo;NASEER-UL-ISLAM, Muhammad~ 33:FI ~31:20225711 ~32:10/08/2022

2025/02003 ~ Complete ~54:METHOD FOR DOPPLER INFORMATION REPORTING ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: ARVOLA, Antti;ATZENI, Italo;GOUDA, Bikshapathi;HAKOLA, Sami-Jukka;KARJALAINEN, Juha, Pekka;KOSKELA, Timo;TOSATO, Filippo;TÖLLI, Antti~ 33:FI ~31:20225719 ~32:12/08/2022

2025/02008 ~ Complete ~54:IMPROVED MONOCYTE ACTIVATION TEST ~71:MAT RESEARCH B.V., J.H. Oortweg 21, Netherlands ~72: FREIRE SANCHEZ, Guillermo;MARIJT, Koen Abraham~ 33:EP ~31:22194176.8 ~32:06/09/2022

- APPLIED ON 2025/03/06 -

2025/02027 ~ Provisional ~54:RETRACTABLE CANOPY BAKKIE RAILS ~71:David Victor Opie, 84 coligny str, 84 coligny str, South Africa ~72: David Victor Opie~

2025/02037 ~ Complete ~54:SYSTEM AND METHOD FOR AWARDED CUSTOMER LOYALTY BENEFITS ~71:YOYO SA SERVICES (PTY) LTD, Second Floor, Office Building No 5, Riverlands, 51 Gogosoa Street, Observatory, South Africa ~72: DUCASSE, Bevan John~

2025/02046 ~ Complete ~54:COMBINATION OF A BTN3A ACTIVATING ANTIBODY, A BCL2 INHIBITOR AND HYPOMETHYLATING AGENT FOR USE IN TREATING CANCER ~71:CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3, rue Michel Ange, 75016, PARIS, France;IMCHECK THERAPEUTICS, 31 Chemin Joseph Aiguier, 13009, Marseille 9e arrondissement, France;INSTITUT JEAN PAOLI & IRENE CALMETTES, 232 boulevard Sainte- Marguerite, 13009, MARSEILLE, France;INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE, 101, rue de Tolbiac, 75013, Paris, France;UNIVERSITÉ D'AIX-MARSEILLE, 58 Boulevard Charles Livon 13007 Marseille, France ~72: ANNE-CHARLOTTE LE FLOCH;DANIEL OLIVE;ELISABETH WIEDUWILD;LOUI MAKADAMUTIL;NORBERT VEY;PAUL FROHNA~ 33:EP ~31:22306469.2 ~32:04/10/2022;33:EP ~31:23186069.3 ~32:18/07/2023

2025/02056 ~ Complete ~54:DRILLING SYSTEM WITH ANNULAR FLUSH SEPARATION DEVICE AND METHOD ~71:WORKOVER SOLUTIONS, INC., 156 S Campus Drive, United States of America ~72: KOENIG, Russell Wayne;REEVES, Mark Allen;VON GYNZ-REKOWSKI, Gunther HH~ 33:US ~31:17/942,316 ~32:12/09/2022

2025/02047 ~ Complete ~54:METHODS AND COMPOSITIONS FOR SEQUENCING LIBRARY NORMALIZATION ~71:WATCHMAKER GENOMICS, INC., 5744 Central Ave., Suite 100, Boulder, Colorado, 80301, United States of America ~72: BRIAN KUDLOW;CLARA ROSS;CRAIG MARSHALL;ERIC VAN DER WALT;LINDSAY PETERKIN;MARTIN RANIK;TRAVIS J SANDERS~ 33:US ~31:63/380,488 ~32:21/10/2022;33:US ~31:63/516,033 ~32:27/07/2023

2025/02052 ~ Complete ~54:PLANT REGULATORY ELEMENTS AND USES THEREOF ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST. LOUIS 63167, MO, USA, United States of America ~72: O'BRIEN, Brent A.~ 33:US ~31:63/375,684 ~32:14/09/2022

2025/02040 ~ Complete ~54:AXLE LIFT WITH LEVER ATTACHED PIVOTING END OF TRAILING ARM ~71:VDL WEWELER B.V., 10, Ecofactorij, WC APELDOORN, Netherlands ~72: SCHRIER, Tom;VAN DER HOEK, Matthijs~ 33:NL ~31:2032915 ~32:31/08/2022

2025/02044 ~ Complete ~54:RNA-GUIDED NUCLEASES AND ACTIVE FRAGMENTS AND VARIANTS THEREOF AND METHODS OF USE ~71:LIFE EDIT THERAPEUTICS, INC., 300 Morris Street Suite 300, Durham, North Carolina, 22701, United States of America ~72: ALEXANDRA BRINER CRAWLEY;GUNJAN H ARYA;LISLE MOSE;MICHAEL COYLE~ 33:US ~31:63/371,230 ~32:12/08/2022

2025/02057 ~ Complete ~54:METHOD FOR MAINTAINING A NUCLEAR REACTOR ~71:FRAMATOME, 1 Place Jean Millier Tour Areva, France ~72: DUPUIS, Alexandre;HUGUET, François Régis;LALLIER, Mickael;SZCZUREK, Eddy~ 33:FR ~31:FR2209303 ~32:15/09/2022

2025/02029 ~ Provisional ~54:SOFTWARE IMPLEMENTED SOCIAL UPLIFTMENT SYSTEM AND METHOD ~71:BIZA TRADESMEN (PTY) LTD., House 10, The Rondebosch Oval, 54 Park Road, Rondebosch, South Africa ~72: KASCHULA, Joanne Margaret~

2025/02033 ~ Complete ~54:LIPID COMPOSITION TARGETING ANTIGEN-PRESENTING CELLS AND USE THEREOF ~71:BEIJING YOU CARE KECHUANG PHARMACEUTICAL TECHNOLOGY CO., LTD., Room 101, 1st Floor, Building 3, Yard 11, Kechuang 7th Street, People's Republic of China ~72: DONG, Kai;JIN, Lijie;SONG, Gengshen;WANG, Huanyu;YU, Xiaowen;ZHANG, Honglei;ZHANG, Jinyu;ZHOU, Yuting~ 33:CN ~31:2024104208623 ~32:09/04/2024

2025/02043 ~ Complete ~54:ELECTRONIC DEVICE COMPRISING HEAT DISSIPATION MEMBER ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: BYEONGUK MIN~ 33:KR ~31:10-2022-0100646 ~32:11/08/2022;33:KR ~31:10-2022-0116439 ~32:15/09/2022;33:KR ~31:PCT/KR2023/011222 ~32:01/08/2023

2025/02053 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO MONITORING OF FISCHER-TROPSCH CHEMICAL REACTORS ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: CLARKSON, Jay Simon;COE, Andrew James;FISH, Andrew~ 33:GB ~31:2216580.7 ~32:08/11/2022

2025/02028 ~ Provisional ~54:TOWNSHIP TRADE NETWORK SYSTEM ~71:Edwin Thabo Letopa, Ground Floor, Clearwater Office Park, 1 Millenium Boulevard, Roodepoort, South Africa, South Africa ~72: Edwin Thabo Letopa~

2025/02034 ~ Complete ~54:FAST AND CONTINUOUS FREQUENCY ADJUSTMENT RUBBER-TYPE VIBRATION ABSORBER ~71:No. 719 Research Institute of China State Shipbuilding Corporation Limited, No. 19, Yangqiaohu Avenue, Canglong Island Development Zone, Jiangxia District, Wuhan City, Hubei Province 430205, People's Republic of China ~72: DAI Chengming;DAI Ruijie;DU Saipeng;GUO Hanbei;LIU Haijian;QIANG Lei;SHANG Chao;TAN Haitao;WANG Minghe;WANG Qiangyong;YANG Xuesong;ZHANG Limei;ZHANG Zhenli~

2025/02050 ~ Complete ~54:CLOSURE DISK ASSEMBLY FOR TRACER PROJECTILE ~71:General Dynamics Ordnance and Tactical Systems - Canada, Inc., 5 MONTÉE DES ARSENAUX, REPENTIGNY J5Z 2P4, QUÉBEC, CANADA, Canada ~72: LAFORTUNE, Eric~ 33:US ~31:17/931,795 ~32:13/09/2022

2025/02032 ~ Complete ~54:DEVICE WITH DISPOSABLE ELEMENT ~71:BRUIN BIOMETRICS, LLC, 10877 Wilshire Blvd., Suite 1600, United States of America ~72: BURNS, Martin, F.;CAMPBELL, Bill;GIUNTOLI, David, M.;RAPTIS, Mark;ROSS, Graham, O.~ 33:US ~31:62/744,513 ~32:11/10/2018;33:US ~31:62/804,095 ~32:11/02/2019

2025/02042 ~ Complete ~54:LAMININ CELL CULTURE SUBSTRATE AND PROTOCOL ~71:RINRI THERAPEUTICS LIMITED, The Innovation Centre, 217 Portobello, United Kingdom ~72: ABBAS, Leila;RIVOLTA, Carlos Marcelo Nicolas~ 33:GB ~31:2214291.3 ~32:29/09/2022

2025/02045 ~ Complete ~54:ENGINEERING SOX/OCT HETERODIMERIZATION TO INDUCE HIGH-GRADE DEVELOPMENTAL RESET ~71:MAX-PLANCK-GESELLSCHAFT ZUR FÖRDERUNG DER WISSENSCHAFTEN E.V., Hofgartenstrasse 8, 80539, München, Germany ~72: CAITLIN M MACCARTHY;GUANGMING WU;HANS R

SCHÖLER;SERGIY VELYCHKO;VLAD COJOCARU~ 33:EP ~31:22194243.6 ~32:06/09/2022;33:EP
~31:23173488.0 ~32:15/05/2023;33:EP ~31:23190084.6 ~32:07/08/2023

2025/02051 ~ Complete ~54:CO-CRYSTALS OF 4-[4-[3-CHLORO-4-[1-(2-PYRIDYL)-2-HYDROXY-ETHOXY]PYRAZOLO[1,5-A]PYRIDIN-6-YL]-5-METHYL- TRIAZOL-1-YL]PIPERIDINE-1 -CARBONITRILE DERIVATIVES WITH GALLIC ACID AND NICOTINE AMIDE ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46206-6288, IN, USA, United States of America ~72: COATES, David Andrew;HILDEN, Lori Raquel;KUMINEK, Gislaine;PETERSON, Jeffrey A.~ 33:US ~31:63/404,232 ~32:07/09/2022

2025/02054 ~ Complete ~54:METHOD AND APPARATUS FOR CURING UV VARNISH ~71:JFL-Materials GmbH, Donnersbergweg 1, LUDWIGSHAFEN 67059, GERMANY, Germany ~72: HOROZ, Simon;LEIDEL, Matthias~ 33:EP ~31:22194476.2 ~32:07/09/2022

2025/02030 ~ Provisional ~54:BULK CARGO BINS ~71:JACOBS, Wessel Johannes, 29 Monteith Place, South Africa ~72: JACOBS, Wessel Johannes~

2025/02036 ~ 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

2025/02048 ~ Complete ~54:VEGETABLE- AND/OR FRUIT-CONTAINING SNACK FOOD PRODUCTS AND MANUFACTURE THEREOF ~71:PEPSICO INTERNATIONAL LIMITED, 450 South Oak Way, Green Park, United Kingdom ~72: BOWS, John Richard;LANGSTON, Faye Margaret Alison~ 33:GB ~31:2215829.9 ~32:26/10/2022

2025/02031 ~ Provisional ~54:MUSIC, TV SHOWS AND FILMS ROYALTY AUCTION AND INVESTMENT SERVICE ~71:Dumi Mbona, 21 Lols Rd, South Africa ~72: Dumi Mbona~

2025/02035 ~ Complete ~54:APPLICATION OF NINE STEAMING NINE DRYING RHEUM PALMATUM L. IN PREPARING MEDICINE FOR TREATING ACUTE CEREBRAL ISCHEMIA INJURY ~71:Institute of Chinese Materia Medica, China Academy of Chinese Medical Sciences, No. 16, Nanxiao Street, Inner Dongzhimen, Dongcheng District, Beijing, People's Republic of China ~72: AO Xuan;LI Li;LIANG Rixin;LIU Taotao;WANG Lan;XU Jing;YU Miao;ZUO Jingyu~ 33:CN ~31:2024106929867 ~32:31/05/2024

2025/02039 ~ Complete ~54:PHOTOVOLTAIC CLEANING ROBOT ~71:Taicang Jinlin Technology Co.,Ltd, Room 812-08, Building 11, University Science Park, No. 20, Jianxiang Road, Science and Education New Town, Taicang, Suzhou, Jiangsu, 215400, People's Republic of China ~72: Hayden Du;Rachael Du~ 33:CN ~31:2024110538353 ~32:02/08/2024

2025/02041 ~ Complete ~54:HIGH LOADING ORAL FILM FORMULATION WITH IMPROVED BIOAVAILABILITY ~71:INTELGEX CORP., 6420 ABRAMS, ST-LAURENT, QUÉBEC H4S 1Y2, CANADA, Canada ~72: PAIEMENT, Nadine;TIR, Billal~ 33:US ~31:63/396,956 ~32:10/08/2022

2025/02049 ~ Complete ~54:COFFEE GRINDING MACHINE WITH BURR ALIGNMENT SYSTEM AND ASSOCIATED METHOD ~71:La Marzocco S.r.l., Via La Torre, 14/H, SCARPERIA E SAN PIERO 50038, ITALY, Italy ~72: BECCASTRINI, Marco;GATTI, Riccardo;MARCHI, Riccardo~ 33:IT ~31:102022000017139 ~32:10/08/2022

2025/02058 ~ Complete ~54:A METHOD OF EXTRACTING CANNABINOIDS FROM PLANT WAXES ~71:STELLENBOSCH UNIVERSITY, Admin B, Victoria Street, South Africa ~72: DUMINY, Jan-Hendrik

Marthinus;GOOSEN, Neill Jurgens;POTT, Robert William McClelland;VAN RENSBURG, Eugene~ 33:GB
~31:2211628.9 ~32:09/08/2022

2025/02038 ~ Complete ~54:A METHOD FOR MEASURING THE CONTRACTILE EFFECTS OF DRUGS ON ISOLATED ILEUM TISSUE ~71:DESHPANDE, Pooja Tushar, ASSISTANT PROFESSOR KRIYASHARIR DEPARTMENT ASHVIN RURAL AYURVEDA COLLEGE, MANCHI HILL, SANGAMNER, MAHARASHTRA, India;DESHPANDE, Sarang Jayprakash, 230, NANDANVAN LAYOUT, NAGPUR, MAHARASHTRA, India;KALE, Sandip, R A PODAR MEDICAL COLLEGE, MUMBAI, MAHARASHTRA, India;KHAROTE, Pooja, NAGPUR, MAHARASHTRA, India;KULKARNI, Bhairav Bhimrao Tawshikar, PROFESSOR & HOD, KAYACHIKITSA DEPARTMENT, DR.VEDPRAKASHPATIL AYURVEDIC MEDICAL COLLEGE & RESEARCH INSTITUTE, JALNA, MAHARASHTRA, India;MISHRA, Kshitij Ramesh, NAGPUR, MAHARASHTRA, India;MISHRA, Pratik, NAGPUR, MAHARASHTRA, India;PATIL, Ranjeet Zunzarrao, ASSOCIATE PROFESSOR, YASHWANT AYURVEDIC COLLEGE POST GRADUATE TRAINING AND RESEARCH CENTRE, KODOLI, KOLHAPUR, MAHARASHTRA, India;RATHOD, Pratiksha, ASSOCIATE PROFESSOR, DATTA MEGHE INSTITUTE OF HIGHER EDUCATION & RESEARCH, WARDHA, MAHARASHTRA, India ~72: DESHPANDE, Pooja Tushar;DESHPANDE, Sarang Jayprakash;KALE, Sandip;KHAROTE, Pooja;KULKARNI, Bhairav Bhimrao Tawshikar;MISHRA, Kshitij Ramesh;MISHRA, Pratik;PATIL, Ranjeet Zunzarrao;RATHOD, Pratiksha~

2025/02055 ~ Complete ~54:TAILINGS SETTLEMENT TEST DEVICE AND METHOD ~71:BEIJING GENERAL RESEARCH INSTITUTE OF MINING & METALLURGY TECHNOLOGY GROUP, Building 23, Zone 18 of ABP, No. 188, South 4th Ring Road West Fengtai District, People's Republic of China ~72: GUO, Lijie;LI, Mengyuan;LIU, Guangsheng;PENG, Xiaopeng;XU, Wenyuan;YANG, Xiaocong~ 33:CN ~31:202211081245.2 ~32:06/09/2022

2025/02059 ~ Provisional ~54:EZ KART ~71:MICHAEL NOEL LOUBSER, 66 DEBENGENI RD, WATERFALL, LINKHILLS, South Africa ~72: MICHAEL NOEL LOUBSER ~

- APPLIED ON 2025/03/07 -

2025/02092 ~ Complete ~54:BRACKET MOUNT FOR THERMAL IMAGING DEVICE ~71:ASHLEY, Geoff Matthew, 8 Columbus St, Ivanhoe, New South Wales, 2878, Australia ~72: ASHLEY, Geoff Matthew~ 33:AU ~31:2022902240 ~32:09/08/2022;33:AU ~31:2023200450 ~32:27/01/2023

2025/02099 ~ Complete ~54:SYSTEMS AND UNITS FOR MARINE INFRASTRUCTURE FOUNDATION SCOUR PROTECTION ~71:ECONcrete Tech Ltd, 8 Taverskey st., TEL AVIV 6721009, ISRAEL, Israel ~72: SELLA, Ido~ 33:US ~31:63/401,667 ~32:28/08/2022

2025/02081 ~ Complete ~54:A SASH FRAME FOR A SIDE DOOR OF A VEHICLE ~71:MAHINDRA ELECTRIC AUTOMOBILE LIMITED, Mahindra Tower, Pandurang Budhkar Marg, India ~72: ABU BAKKAR, U Mohammed;AMIT, Dahiya;ASKARI, Hasan;MOHANTY, Abhinab;PANDURANGAN, Venugopal;SRIVASTAVA, Abhay;SUDHEER, Adithya P;VENKADESH, S~ 33:IN ~31:202421016884 ~32:08/03/2024

2025/02090 ~ Complete ~54:POLYVINYL ALCOHOL FIBRES AND SPUNBOND FIBROUS PRODUCTS ~71:AQUAPAK IP LIMITED, Hollymoor Point, Hollymoor Way, United Kingdom ~72: ASHWORTH, Robert;GRIFFITHS, Sian;WILLIAMS, John~ 33:EP ~31:22190327.1 ~32:13/08/2022

2025/02100 ~ Complete ~54:NOVEL COMPOUNDS FOR THE DIAGNOSIS OF TDP-43 PROTEINOPATHIES ~71:AC Immune SA, EPFL Innovation Park, Building B, LAUSANNE 1015, SWITZERLAND, Switzerland ~72: DREYFUS, Nicolas;KROTH, Heiko~ 33:EP ~31:22199297.7 ~32:30/09/2022;33:EP ~31:23164491.5 ~32:27/03/2023;33:EP ~31:23185134.6 ~32:12/07/2023

2025/02068 ~ Complete ~54:SUPPORTED PRECIOUS METAL HYDROCRACKING CATALYST AND PREPARATION METHOD THEREFOR ~71:NEI MONGOL SHENGLONG DADI TECHNOLOGY CO., LTD, South Of Weiliu Road, Sanxiangliang Industrial Park, Dalate Banner, Ordos, Inner Mongolia, 014300, People's Republic of China ~72: LI, Yuqiang~ 33:CN ~31:202410850432.5 ~32:28/06/2024

2025/02102 ~ Complete ~54:CAPSULE INHALER FOR THE ADMINISTRATION OF A PHOSPHODIESTERASE-4 INHIBITOR ~71:CHIESI FARMACEUTICI S.P.A., Via Palermo, 26/A, 43122, Parma, Italy ~72: FRANCESCA BUTTINI;GIADA VARACCA;ROMINA OSELLO~ 33:EP ~31:22197238.3 ~32:22/09/2022

2025/02065 ~ Complete ~54:MEASURING DEVICE FOR CONSTRUCTIONAL ENGINEERING QUALITY INSPECTION ~71:JIAMUSI UNIVERSITY, NO. 258, XUEFU STREET, XIANGYANG DISTRICT, JIAMUSI CITY, People's Republic of China ~72: BAI, Yanan;CHEN, Deming;CHEN, Depeng;LI, Huaming;LIU, Xiaodan;LONG, Qiuying;WANG, Jiawen;WANG, Junyan;ZHANG, Caixia;ZHUANG, Yu~

2025/02074 ~ Complete ~54:ROTATING MACHINE FAULT DIAGNOSIS METHOD ~71:NANCHANG HANGKONG UNIVERSITY, NO. 696 FENGHE SOUTH AVENUE, NANCHANG CITY, People's Republic of China ~72: MA, Xinui;WANG, Fei;ZENG, Shan;ZOU, Zhangchang~

2025/02078 ~ Complete ~54:INTELLIGENT PROCESSING AND DETECTION SYSTEM FOR CAPSULE PREPARATION PRODUCTION ~71:BEIJING CHUNFENG PHARMACEUTICAL CO., LTD., No. 72, Hengli Street, Beifang Town, Huairou District, Beijing, 101400, People's Republic of China ~72: JING GAO~ 33:CN ~31:202410380334.X ~32:30/03/2024

2025/02086 ~ Complete ~54:STEPPED PUMPED STORAGE DEVICE ~71:GUAN, DeTian, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;LEI, YongQuan, Wuhua District, Spring City, Huigu 12 building, People's Republic of China;LI, HaiYan, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;LI, HaoTian, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;LI, JianDa, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;LI, SongYang, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;LI, XiaoLin, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;LI, Zhenxiang, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;XU, Guojun, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;YAO, Qian, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China;ZHOU, BaoGuo, No. 252, Shantian Yueshe Court, Denggezhuang Village, Huaibei Town, Huairou District, People's Republic of China ~72: GUAN, DeTian;LEI, YongQuan;LI, HaiYan;LI, HaoTian;LI, JianDa;LI, SongYang;LI, XiaoLin;LI, Zhenxiang;XU, Guojun;YAO, Qian;ZHOU, BaoGuo~ 33:CN ~31:2025101231105 ~32:25/01/2025

2025/02091 ~ Complete ~54:POLYVINYL ALCOHOL FIBRES AND MELTBLOWN FIBROUS PRODUCTS ~71:AQUAPAK IP LIMITED, Hollymoor Point, Hollymoor Way, United Kingdom ~72: ASHWORTH, Robert;EATON, Jack;GRIFFITHS, Sian;WILLIAMS, John~ 33:EP ~31:22190328.9 ~32:13/08/2022

2025/02101 ~ Complete ~54:CAPSULE INHALER FOR THE ADMINISTRATION OF A PHOSPHODIESTERASE-4 INHIBITOR ~71:CHIESI FARMACEUTICI S.P.A., Via Palermo, 26/A, 43122, Parma, Italy ~72: FRANCESCA BUTTINI;GIADA VARACCA;ROMINA OSELLO~ 33:EP ~31:22197236.7 ~32:22/09/2022

2025/02106 ~ Complete ~54:AUTOTHERMAL REFORMING PROCESS FOR PRODUCTION OF HYDROGEN ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: ARUNABH SAHAI;PER JUUL

DAHL;STEFFEN SPANGSBERG CHRISTENSEN;THOMAS SANDAHL CHRISTENSEN~ 33:IN
~31:202211053164 ~32:16/09/2022;33:EP ~31:23156049.1 ~32:10/02/2023

2025/02066 ~ Complete ~54:RELIEF VALVE ~71:CRAFFORD, Ryno Adolf, 196 Van Riebeeck Avenue, South Africa ~72: DAVIS, John Mark~ 33:ZA ~31:2024/01352 ~32:14/02/2024

2025/02067 ~ Complete ~54:PORTABLE ENGLISH LITERATURE TRANSLATION DEVICE ~71:ZHENGZHOU UNIVERSITY OF AERONAUTICS, BOXUE ROAD STREET, JINSHUI DISTRICT, ZHENGZHOU CITY, People's Republic of China ~72: LIU, Yanfang~

2025/02072 ~ Complete ~54:A COMPUTER NETWORK ADAPTER ~71:Huainan Normal University, Dongshan West Road, Tianjia'an District, Huainan City, Anhui Province, 232000, People's Republic of China ~72: Guoren Yao;Jungui Ding~ 33:CN ~31:202510200670.6 ~32:21/02/2025

2025/02073 ~ Complete ~54:A SNOW REMOVAL DEVICE FOR PRAIRIE CLIMATE CHANGE RESEARCH ~71:Min jiang University, Xiyuangong Road, Shangjie Town, Minhou County, Fuzhou City, Fujian Province, People's Republic of China ~72: Fang Shimin;Zhao Guoyong~

2025/02080 ~ Complete ~54:CARBON-BASED NANOMATERIAL PURIFICATION PROCESS ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LONGXIANG AVENUE, XINCHENG DISTRICT, PINGDINGSHAN CITY, People's Republic of China ~72: LIU, Huayu;YANG, Shicheng;YIN, Jianan;ZHANG, Shuaiguo~

2025/02083 ~ Complete ~54:INTERACTIVE ENGLISH ONLINE COURSE TEACHING PLATFORM ~71:SUZHOU UNIVERSITY, NO. 1769 XUEFU AVENUE, SUZHOU CITY, People's Republic of China ~72: LI, Xiaoxuan;XIANG, Yang~

2025/02087 ~ Complete ~54:HYDRAULIC CENTRE PINTLE PULLER ~71:CANADIAN NATURAL UPGRADING LIMITED, 100, 855 2 Street SW, Canada ~72: EZEKIEL, Michael;MACKOWSKI, Andrew;PANDEY, Vaibhav;SCHILLER, Jeff;WELLER, Jason~ 33:US ~31:63/376,468 ~32:21/09/2022

2025/02094 ~ Complete ~54:MINING AREA PANORAMIC SCANNING-TYPE COAL FIRE DETECTION AND DISASTER EARLY WARNING AND PREVENTION DEVICE ~71:Shaanxi Energy Institute, No. 29, Middle Section of Wenlin Road, Weicheng District, Xianyang City, Shaanxi Province, 712000, People's Republic of China ~72: Gao Zhang;Jiangpeng Ju;Jianhua Zhang;Ju Zhao~

2025/02098 ~ Complete ~54:ANTI-MONOMETHYL AURISTATIN ANTIBODIES AND ANTIBODY FRAGMENTS ~71:The Research Foundation for The State University of New York, Technology Transfer, University at Buffalo UB Commons, 520 Lee Entrance, Suite 109, AMHERST 14228, NY, USA, United States of America ~72: BALTHASAR, Joseph P.;BORDEAU, Brandon M.;NGUYEN, Toan Duc;POLLI, Joseph Ryan~ 33:US ~31:63/373,367 ~32:24/08/2022;33:US ~31:63/520,689 ~32:21/08/2023

2025/02104 ~ Complete ~54:A METHOD FOR RECOVERING LITHIUM FROM A STREAM CONTAINING LITHIUM ~71:METSO FINLAND OY, Rauhalanpuisto 9, Espoo, 02230, Finland ~72: EIJA SAARI;KAJ JANSSON;MARIKA TIIHONEN~ 33:FI ~31:20225757 ~32:29/08/2022

2025/02063 ~ Complete ~54:DRAIN VALVE ~71:CRAFFORD, Ryno Adolf, 196 Van Riebeeck Avenue, South Africa ~72: DAVIS, John Mark~ 33:ZA ~31:2024/01352 ~32:14/02/2024

2025/02069 ~ Complete ~54:A SINGLE DOMAIN ANTIBODY TARGETING PROGRAMMED DEATH-LIGAND 1 FOR CANCER IMMUNOTHERAPY ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72:

Fan, Yuguo; Feng, Longyan; GAO, Juntai; Guo, Zhihui; Hong, Jun; Huang, Xinyi; Li, Xinyang; Wang, Qingqing; Zhao, Tianxu~

2025/02079 ~ Complete ~54: REINFORCED POLYMER FASTENER AND RELATED METHOD OF MANUFACTURE ~71: NIEUWENHUYS, Kathleen, ERF 802, 28 Jay Street, RANT-EN-DAL, Krugersdorp 1751, Gauteng, SOUTH AFRICA, South Africa ~72: NIEUWENHUYS, Kathleen~ 33:ZA ~31:2024/01910 ~32:07/03/2024

2025/02085 ~ Complete ~54: PNEUMATIC DRIVEN BIOMIMETIC MULTI MUSCULAR EXOSKELETON SYSTEM AND CONTROL METHOD THEREOF ~71: TIANJIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 29, 13th Avenue, Economic Development Zone, Binhai New Area, People's Republic of China ~72: CAO, Xiuming; FANG, Delei; LI, Jian; LI, Pan; REN, Fangyuan; SU, Baolong; SU, Yu; SUN, Jiahao; WANG, Jianwei; WEN, Hao; ZHANG, Junxia; ZHANG, Yan; ZHAO, Chengfei~ 33:CN ~31:202411991289.8 ~32:31/12/2024

2025/02089 ~ Complete ~54: EXTRUDED POLYVINYL ALCOHOL FIBRES AND FIBROUS PRODUCTS ~71: AQUAPAK IP LIMITED, Hollymoor Point, Hollymoor Way, United Kingdom ~72: ASHWORTH, Robert; EATON, Jack; GRIFFITHS, Sian; WILLIAMS, John~ 33:EP ~31:22190330.5 ~32:13/08/2022

2025/02095 ~ Complete ~54: ADAPTIVE INTELLIGENT COAL FIRE DETECTION AND DISASTER CLASSIFICATION EXTINGUISHING LINKAGE DEVICE ~71: Shaanxi Energy Institute, No. 29, Middle Section of Wenlin Road, Weicheng District, Xianyang City, Shaanxi Province, 712000, People's Republic of China ~72: Gao Zhang; Jiangpeng Ju; Ju Zhao; Zhen Qu~

2025/02064 ~ Complete ~54: INDUSTRIAL NETWORK SYSTEM SENSOR SCHEDULING METHOD ~71: NINGBO CITY VOCATIONAL AND TECHNICAL COLLEGE, NO. 9 XUEFU ROAD, YINZHOU HIGHER EDUCATION PARK, NINGBO, People's Republic of China ~72: WAN, Xucheng~

2025/02071 ~ Complete ~54: AN INTELLIGENT URBAN PLANNING SYSTEM AND METHOD BASED ON GEOGRAPHIC INFORMATION ~71: Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: Han Yan; Hou Shaoyang; Li Leilei; Li Shan; Song Ziyang; Xing Xiaona; Zhang Caili; Zhang Juanjuan~

2025/02103 ~ Complete ~54: PHARMACEUTICAL COMPOSITIONS OF ROFLUMILAST AND SOLVENTS CAPABLE OF DISSOLVING HIGH AMOUNTS OF THE DRUG ~71: ARCUTIS BIOTHERAPEUTICS, INC., 3027 Townsgate Road, #300, Westlake Village, California, 91361, United States of America ~72: BABAK N TOFIG; DAVID W OSBORNE; FRANK WATANABE~ 33:US ~31:63/406,921 ~32:15/09/2022

2025/02107 ~ Complete ~54: INTELLIGENT MEDICAL CARE INTERACTIVE IMAGE PROCESSING ALGORITHM BASED ON FIFTH-GENERATION AND INTERNET OF THINGS TECHNOLOGY ~71: WUHU INSTITUTE OF TECHNOLOGY, No. 62 Yinhu North Road, Wuhu City, People's Republic of China ~72: Gao Sihan; Hu Fei; Jiang Zihao; Shui Yong; Tang Heng; Yang Zixiang~

2025/02075 ~ Complete ~54: FRACTURE MECHANICS EXPERIMENTAL DEVICE ~71: XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: FENG, Sixin; HUANG, Ying; LI, Jie; PI, Ling; WANG, Juan~

2025/02077 ~ Complete ~54: DEEP LEARNING BASED TEMPERATURE ANOMALY WARNING SYSTEM FOR BARRIER ROBOTS ~71: HUAINAN NORMAL UNIVERSITY, DONGSHAN WEST ROAD, TIANJIA'AN DISTRICT, HUAINAN CITY, People's Republic of China ~72: BAI, Panpan; GUO, Haodong; WANG, Jin; ZHANG, Yan~

2025/02084 ~ Complete ~54:CULTURAL AND CREATIVE PRODUCT DISPLAY CABINET BASED ON IDEOLOGICAL AND POLITICAL PROPAGANDA ~71:SUZHOU UNIVERSITY, NO. 1769 XUEFU AVENUE, SUZHOU CITY, People's Republic of China ~72: LI, Xiaoxuan;LIN, Shuai;QU, Tiantian;XIANG, Yang;YANG, Juan~

2025/02088 ~ Complete ~54:POLYVINYL ALCOHOL FIBRES AND FIBROUS PRODUCTS ~71:AQUAPAK IP LIMITED, Hollymoor Point, Hollymoor Way, United Kingdom ~72: ASHWORTH, Robert;EATON, Jack;GRIFFITHS, Sian;WILLIAMS, John~ 33:EP ~31:22190331.3 ~32:13/08/2022

2025/02096 ~ Complete ~54:REHYDRATING COMPOSITION OF ELECTROLYTES WITH POSTBIOTIC AND ZINC ~71:CHATURVEDI, Krutin Kaushik, Halewood Laboratories Pvt. Ltd., 310, Sankalp Square-2, Nr. Jalaram Temple, Paldi, AHMEDABAD GUJARAT 380006, MAHARASHTRA, INDIA, India ~72: CHATURVEDI, Krutin Kaushik~ 33:IN ~31:202221057465 ~32:07/10/2022

2025/02105 ~ Complete ~54:ACTIVATABLE ANTI-CTLA4 ANTIBODIES FOR TREATING CANCER ~71:ADAGENE PTE. LTD., 16 Raffles Quay, #33-03 Hong Leong Building, Singapore, 048581, Singapore ~72: GUIZHONG LIU;JIPING ZHA;PETER PEIZHI LUO;SONGMAO ZHENG;XIAOHONG SHE~ 33:US ~31:63/405,293 ~32:09/09/2022;33:US ~31:63/495,965 ~32:13/04/2023

2025/02062 ~ Provisional ~54:A SYSTEM FOR ESTABLISHING AND USING A REGISTRY OF DOCUMENTS SUITABLE FOR DECEASED ESTATE MANAGEMENT ~71:VABAZA, Tembeleni, 23 Glenroy Place, Brentwood Park, South Africa ~72: VABAZA, Tembeleni~

2025/02070 ~ Complete ~54:INTELLIGENT CONSTRUCTION INTEGRATED MANAGEMENT PLATFORM ~71:Jinggangshan University, Jinggangshan University, No. 28 Xueyuan Road, Qingyuan District, Ji'an City, Jiangxi Province, 343000, People's Republic of China ~72: LIU, Lijun;OUYANG, Luxia~

2025/02076 ~ Complete ~54:CHIMERIC NEUROTOXINS ~71:Ipsen Biopharm Limited, Unit 9 Ash Road, Wrexham Industrial Estate, WREXHAM, LL13 9UF, USA, United States of America ~72: LIU, Sai Man~ 33:GB ~31:1607901.4 ~32:05/05/2016

2025/02082 ~ Complete ~54:METHOD FOR PREPARING POROUS CARBON MATERIAL ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LONGXIANG AVENUE, XINCHENG DISTRICT, PINGDINGSHAN CITY, People's Republic of China ~72: SONG, Chengjian;YANG, Shicheng;YIN, Jianan~

2025/02093 ~ Complete ~54:A STRIP ROTARY TILLAGE STUBBLE-CLEANING AND SEEDING MACHINE AND ITS SEEDING METHOD ~71:Peanut Research Institute, Henan Academy of Agricultural Sciences, 116 Huanyuan Road, Jinshui District, Zhengzhou City, Henan Province,450002, China, People's Republic of China ~72: Chen Yafei;Cui Yanan;Jiao Nianyuan;Liu Bing;Liu Haijiao;Liu Juan;Ma Tengfei;Wang Jiangtao;Xu Risheng;Yang Jiangan;Zhang Zheng;Zhou Liyao~ 33:CN ~31:2025100606221 ~32:15/01/2025

2025/02097 ~ Complete ~54:INHIBITORS OF CYCLIN-DEPENDENT KINASE (CDK) 12 AND/OR CDK13 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: LIU, Yingtao;LU, Hongfu;REN, Feng;WU, Jianping;ZHENG, Min~ 33:IB ~31:2022/110858 ~32:08/08/2022;33:IB ~31:2022/130631 ~32:08/11/2022;33:IB ~31:2023/080498 ~32:09/03/2023;33:IB ~31:2023/083161 ~32:22/03/2023;33:IB ~31:2023/107019 ~32:12/07/2023

- APPLIED ON 2025/03/10 -

2025/02113 ~ Provisional ~54:ONLINE ORDERS DELIVERY SECURE RECEIVING BOX ~71:Magaretha Hildebrand, 508 Lois ave, Erasmuskloof, South Africa ~72: Magaretha Hildebrand~ 33:ZA ~31:n/a ~32:02/03/2025

2025/02114 ~ Complete ~54:MODULAR BATTERY SYSTEM ~71:SCANDINAVIAN BATTERY TECHNOLOGY AB, Skattegården 4, Sweden ~72: ERIKSSON, Frank;MANNERHAGEN, Felix~ 33:SE ~31:2250250-4 ~32:24/02/2022

2025/02120 ~ Complete ~54:RELAY PROTECTION CIRCUIT FOR BMS ~71:Shenzhen Mingtang New Energy Technology Co., Ltd., 1501 Dazu Technology Center, No. 9988 Shennan Avenue, Maling Community, Yuehai Street, Nanshan District, Shenzhen City, Guangdong Province, People's Republic of China ~72: Diao, Yingjun;Fu, Jiabin;Li, Zhiru;Luo, Mingxiang;Zeng, Wujun~ 33:CN ~31:202420812784 .7 ~32:16/04/2024

2025/02123 ~ Complete ~54:UNIFIED IDENTITY MANAGEMENT METHOD AND SYSTEM BASED ON ADAPTER PATTERN ~71:COSCO SHIPPING TECHNOLOGY(BEIJING) CO., LTD., Room 15A, Block F, Fuhua Building, No. 8 Chaoyangmen North Street, Dongcheng District, People's Republic of China ~72: LI,Hanjie;SUN, Zhe;ZHANG, Kai~ 33:CN ~31:202510102073.X ~32:22/01/2025

2025/02115 ~ Complete ~54:SOLIDAGO CANADENSIS L. ALLELOPATHIC METABOLITE INTELLIGENT SORTING AND EXTRACTION SYSTEM ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: CHANG Huihui;LIU Huiyuan;WEI Pengfei;WU Miao;XIE Zhaohui~

2025/02122 ~ Complete ~54:EUKARYOTIC EXPRESSION PLASMID FOR RECOMBINANT PORCINE MACROPHAGE-COLONY STIMULATING FACTOR (PM-CSF), METHOD OF CONSTRUCTING SAME AND USE THEREOF ~71:Shanghai Veterinary Research Institute, CAAS (Shanghai Branch of China Animal Health and Epidemiology Center), No.518, Ziyue Road, Minhang District, Shanghai, 200241, People's Republic of China ~72: Li Guoxin;Liu Liping;Liu Yun;Yu Lingxue~ 33:CN ~31:202510086178.0 ~32:20/01/2025

2025/02127 ~ Complete ~54:RECEPTOR-MEDIATED ENDOCYTOSIS FOR TARGETED INTERNALIZATION AND DEGRADATION OF MEMBRANE PROTEINS AND CARGOS ~71:DANA-FARBER CANCER INSTITUTE, INC., 450 Brookline Avenue, Boston, Massachusetts, 02215, United States of America ~72: DINGPENG ZHANG;XIN ZHOU~ 33:US ~31:63/376,389 ~32:20/09/2022;33:US ~31:63/462,828 ~32:28/04/2023

2025/02133 ~ Complete ~54:IMPROVED SECURITY ESTABLISHMENT METHODS AND SYSTEMS ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: GARCIA MORCHON, Oscar~ 33:EP ~31:22190117.6 ~32:12/08/2022;33:EP ~31:22190129.1 ~32:12/08/2022;33:EP ~31:22190133.3 ~32:12/08/2022;33:EP ~31:22190140.8 ~32:12/08/2022;33:EP ~31:22190146.5 ~32:12/08/2022;33:EP ~31:22190152.3 ~32:12/08/2022;33:EP ~31:22190162.2 ~32:12/08/2022;33:EP ~31:22190168.9 ~32:12/08/2022;33:EP ~31:22190179.6 ~32:12/08/2022;33:EP ~31:22190185.3 ~32:12/08/2022;33:EP ~31:22190191.1 ~32:12/08/2022;33:EP ~31:22198612.8 ~32:29/09/2022;33:EP ~31:22198619.3 ~32:29/09/2022;33:EP ~31:22198622.7 ~32:29/09/2022;33:EP ~31:22198629.2 ~32:29/09/2022;33:EP ~31:22198638.3 ~32:29/09/2022;33:EP ~31:22198644.1 ~32:29/09/2022;33:EP ~31:22198647.4 ~32:29/09/2022;33:EP ~31:22198655.7 ~32:29/09/2022;33:EP ~31:22198659.9 ~32:29/09/2022;33:EP ~31:22198663.1 ~32:29/09/2022;33:EP ~31:22198668.0 ~32:29/09/2022;33:EP ~31:23150571.0 ~32:06/01/2023;33:EP ~31:23156019.4 ~32:10/02/2023;33:EP ~31:23167539.8 ~32:12/04/2023;33:EP ~31:23172719.9 ~32:11/05/2023;33:EP ~31:23175238.7 ~32:25/05/2023;33:EP ~31:23177737.6 ~32:06/06/2023;33:EP ~31:23188517.9 ~32:28/07/2023

2025/02135 ~ Complete ~54:HDAC INHIBITOR OKI-179 FOR THE TREATMENT OF CANCERS RESULTING FROM A MAPK PATHWAY MUTATION ~71:OnKure, Inc., 6707 Winchester Circle, Suite 400, BOULDER 80301,

CO, USA, United States of America ~72: WALKER, Duncan;WOESSNER, Richard D.~ 33:US ~31:63/408,323
~32:20/09/2022

2025/02136 ~ Complete ~54:METHODS FOR TREATING OBESITY ~71:Amgen Inc., One Amgen Center Drive,
THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: OBEROI, Rajneet;STRANDE,
Jennifer;VENIANT-ELLISON, Murielle~ 33:US ~31:63/382,700 ~32:07/11/2022;33:US ~31:63/387,837
~32:16/12/2022

2025/02137 ~ Complete ~54:COMBINATION THERAPIES FOR TREATMENT OF CIRRHOSIS WITH PORTAL
HYPERTENSION ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: AMBERY,
Philip;GREASLEY, Peter~ 33:US ~31:63/371,228 ~32:12/08/2022

2025/02109 ~ Provisional ~54:PROACTIVE ENVIRONMENTAL CLEANLINESS INSPECTION PROCEDURE
~71:Bongani Tshepang Mafemane, Menele village stand no.113, South Africa ~72: Bongani Tshepang
Mafemane~

2025/02119 ~ Complete ~54:MANAGEMENT SYSTEM ~71:Angel Group Co., Ltd., 4600, Aono-cho,
HIGASHIOMI-SHI 5270232, SHIGA, JAPAN, Japan ~72: SHIGETA , Yasushi~ 33:JP ~31:2024-037665
~32:11/03/2024

2025/02125 ~ Complete ~54:A NON-INVASIVE DEVICE AND METHOD FOR DETECTING RNA ASSOCIATED
DISEASE ~71:Deovrat Begde, Plot no. 8 and 9, Third Floor Pride Enclave, Deshmukh layout, Near Katol Road
Bypass Toll plaza Sai nagar, Dabha, Nagpur, Maharashtra, 440023, India;Shubhendra Singh Thakur, House No.
1408/A, Darshana Society, Nagpur, Maharashtra, 440013, India ~72: Deovrat Begde;Shubhendra Singh Thakur~
33:IN ~31:202221012042 ~32:07/09/2022

2025/02128 ~ Complete ~54:REUSABLE SANITARY AND INCONTINENCE ARTICLE ~71:SEAMPRIINT GMBH
& CO. KG, Schulstr. 8a, 82541, Münsing, Germany ~72: INGE SIEBERT;UDO SIEBERT~

2025/02130 ~ Complete ~54:DISTRIBUTED MICRO-GRID CONTROL SYSTEM WITH A PLURALITY OF
CONTROLLERS CONNECTED TO EACH OTHER IN A PEER-TO-PEER NETWORK ~71:CATERPILLAR INC.,
100 NE Adams Street, United States of America ~72: CHATTERJEE, Srideep;NAGESH, Sowmya;REDDY,
Suresh, B.;SERGOTT, Kevin, J.;WILSON, Vineeth~ 33:US ~31:17/930,955 ~32:09/09/2022

2025/02185 ~ Provisional ~54:BRAILLEREAD ~71:REAMOGETSE TSHABALALA, 39 ROOS STREET, RIAMAR-
PARL., South Africa ~72: REAMOGETSE TSHABALALA~

2025/02111 ~ Provisional ~54:A RETRACTABLE SCREEN SYSTEM ~71:MOKGETHI, Tshepo Given, 4408
Castle Bay Crescent Blue Valley Golf and Country Estate, South Africa ~72: MOKGETHI, Tshepo Given~

2025/02117 ~ Complete ~54:CAIX TARGETING IL-12 FUSION PROTEINS AND METHODS OF USE THEREOF
~71:BICARA THERAPEUTICS INC., 245 Main Street, Cambridge, Massachusetts, 02142, United States of
America ~72: ARVIND VITTAL GOSWAMI;AVANISH K VARSHNEY;HARISH KUMAR TRIPURANA;JAYA
BHATNAGAR;PRADIP NAIR;RAMAKRISHNAN MELARKODE SUBBARAMAN;RESHMI NAIR;SENG-LAI
TAN;SHIV RAM KRISHN;SRINIVAS REDDY BOREDDY~ 33:US ~31:63/245,523 ~32:17/09/2021

2025/02124 ~ Complete ~54:A DRINKS CONTAINER ~71:AWL IN IP PTY LTD, 15 Merimist Way, Kiels
Mountain, Australia ~72: KEARNEY, Michael;PRICE, Reid;WALL, Alexander~ 33:AU ~31:2022228162
~32:08/09/2022;33:AU ~31:2022291577 ~32:22/12/2022

2025/02134 ~ Complete ~54:A METHOD FOR HARVESTING PRODUCTS FROM PERFUSION CULTURES
~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America
~72: FRANK, Gregory T.;KALTENBRUNNER, Oliver;ZHAO, Xiaoyang~ 33:US ~31:63/407,437 ~32:16/09/2022

2025/02126 ~ Complete ~54:PAD FOR TREATING A WOUND COMPRISING AN IMPROVED ULTRASONIC
WELD ~71:PAUL HARTMANN AG, Paul-Hartmann-Str. 12, Germany ~72: MERCKEL, Fabien;THIEBAUT,
Renaud~ 33:EP ~31:22210600.7 ~32:30/11/2022

2025/02131 ~ Complete ~54:SERIES OF NITROGEN-CONTAINING BRIDGED HETEROCYCLIC COMPOUNDS
AND PREPARATION METHOD THEREFOR ~71:CMS RESEARCH & DEVELOPMENT PTE. LTD., 1 Coleman
Street, The Adelphi #08-01, Singapore ~72: CHEN, Shuhui;QIAN, Wenyuan;YAN, Xiaobing~ 33:CN
~31:202211064029.7 ~32:29/08/2022;33:CN ~31:202211231001.8 ~32:09/10/2022;33:CN
~31:202311066347.1 ~32:22/08/2023

2025/02138 ~ Complete ~54:SOLAR PANEL MOUNTING POSTS AND MOUNTING SYSTEM ~71:NIENHUIS,
Jan, Balster, 646 WINDSOR ROAD, GARSFONTEIN EAST, 0060, SOUTH AFRICA, South Africa ~72:
NIENHUIS, Jan, Balster~ 33:ZA ~31:2023/11609 ~32:19/12/2023

2025/02139 ~ Complete ~54:ANTI-THEFT SOLAR PANEL MOUNTING BRACKET ~71:NIENHUIS, Jan, Balster,
646 WINDSOR ROAD, GARSFONTEIN EAST, 0060, SOUTH AFRICA, South Africa ~72: NIENHUIS, Jan,
Balster~ 33:ZA ~31:2023/11608 ~32:19/12/2023

2025/02140 ~ Provisional ~54:AUTOMATED PRICING SHOPPING TROLLEY ~71:DOUGAN PERCY WRIGHT,
75 MORRIS STREET,, South Africa ~72: DOUGAN PERCY WRIGHT~

2025/02248 ~ Complete ~54:ULTRASONIC WELDING DEVICE COMPRISING AIR COOLING ~71:SCHUNK
SONOSYSTEMS GMBH, Hauptstrasse 95, Germany ~72: Daniel GÜNTHER;Dariusz KOSECKI;Heiko
STROBEL;Rainer WAGENBACH;Sebastian RÜHL;Stefan MÜLLER;Stephan BECKER;Waldemar WERNER~
33:DE ~31:10 2022 130 241.5 ~32:15/11/2022

2025/02132 ~ Complete ~54:IMPROVED SECURITY ESTABLISHMENT METHODS AND SYSTEMS
~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands
~72: GARCIA MORCHON, Oscar~ 33:EP ~31:22190117.6 ~32:12/08/2022;33:EP ~31:22190129.1
~32:12/08/2022;33:EP ~31:22190133.3 ~32:12/08/2022;33:EP ~31:22190140.8 ~32:12/08/2022;33:EP
~31:22190146.5 ~32:12/08/2022;33:EP ~31:22190152.3 ~32:12/08/2022;33:EP ~31:22190162.2
~32:12/08/2022;33:EP ~31:22190168.9 ~32:12/08/2022;33:EP ~31:22190179.6 ~32:12/08/2022;33:EP
~31:22190185.3 ~32:12/08/2022;33:EP ~31:22190191.1 ~32:12/08/2022;33:EP ~31:22198612.8
~32:29/09/2022;33:EP ~31:22198619.3 ~32:29/09/2022;33:EP ~31:22198622.7 ~32:29/09/2022;33:EP
~31:22198629.2 ~32:29/09/2022;33:EP ~31:22198638.3 ~32:29/09/2022;33:EP ~31:22198644.1
~32:29/09/2022;33:EP ~31:22198647.4 ~32:29/09/2022;33:EP ~31:22198655.7 ~32:29/09/2022;33:EP
~31:22198659.9 ~32:29/09/2022;33:EP ~31:22198663.1 ~32:29/09/2022;33:EP ~31:22198668.0
~32:29/09/2022;33:EP ~31:23150571.0 ~32:06/01/2023;33:EP ~31:23156019.4 ~32:10/02/2023;33:EP
~31:23167539.8 ~32:12/04/2023;33:EP ~31:23172719.9 ~32:11/05/2023;33:EP ~31:23175238.7
~32:25/05/2023;33:EP ~31:23177737.6 ~32:06/06/2023;33:EP ~31:23188517.9 ~32:28/07/2023

2025/02118 ~ Complete ~54:SENSOR SYSTEM FOR PASSIVE IN-VEHICLE BREATH ALCOHOLESTIMATION
~71:Automotive Coalition for Traffic Safety, Inc., 21620 Ridgetop Circle #170, STERLING 20166, VA, USA, United
States of America ~72: LJUNGBLAD, Jonas;ÖBERG, Magnus~ 33:US ~31:63/562,889 ~32:08/03/2024;33:US
~31:18/643,488 ~32:23/04/2024

2025/02121 ~ Complete ~54:PROKARYOTIC EXPRESSION PLASMID FOR RECOMBINANT FELINE MACROPHAGE-COLONY STIMULATING FACTOR (FM-CSF), METHOD OF CONSTRUCTING SAME AND USE THEREOF ~71:Shanghai Veterinary Research Institute, CAAS (Shanghai Branch of China Animal Health and Epidemiology Center), No.518, Ziyue Road, Minhang District, Shanghai, 200241, People's Republic of China ~72: Li Guoxin;Liu Liping;Liu Yun;Yu Lingxue~ 33:CN ~31:202510093881.4 ~32:21/01/2025

2025/02129 ~ Complete ~54:RECEPTOR-MEDIATED ENDOCYTOSIS FOR TARGETED DEGRADATION AND DELIVERY OF THERAPEUTIC AGENTS ~71:DANA-FARBER CANCER INSTITUTE, INC., 450 Brookline Avenue, Boston, Massachusetts, 02215, United States of America ~72: DINGPENG ZHANG;XIN ZHOU~ 33:US ~31:63/376,389 ~32:20/09/2022;33:US ~31:63/462,828 ~32:28/04/2023

2025/02108 ~ Provisional ~54:SYSTEM AND METHOD FOR REAL-TIME PERSONALISED DIETARY RECOMMENDATIONS UTILISING ADVANCED AI, WEARABLE DEVICES, AUGMENTED REALITY, AND GAMIFICATION WITH DYNAMIC INSURANCE INTEGRATION ~71:Kabelo Diale, 7 Comet Street, South Africa;Tumelo Sapa Malekane, 12 St Francis Drive, South Africa ~72: Kabelo Diale;Tumelo Sapa Malekane~

2025/02110 ~ Provisional ~54:DILIGENCE,ACCOUNTABILITY AND PUNCTUALITY SYSTEM ~71:Judah Ben-Hur Joyce, 4 Cilliers street, La Hoff, Klerksdorp, North West, South Africa ~72: Judah Ben Hur Joyce~

2025/02112 ~ Provisional ~54:DURESS PASSWORD SYSTEM AND METHOD FOR A BANKING APPLICATION ~71:MTSHALI, Samuel Robert, Unit 1 Elmwood, 1 Juniper Drive, DOWERGLEN EXT. 4, Johannesburg 1609, Gauteng, SOUTH AFRICA, South Africa ~72: MTSHALI, Samuel Robert~

2025/02116 ~ Complete ~54:LIQUID DISPENSER ~71:MKAZI CONCEPTS (PTY) LTD., 2G56 One Eloff, 2 Salisburg Claim, Johannesburg, Gauteng, 2001, South Africa ~72: SIPHIWO PEACE MJWARA;THOKOZANI ZAMA NGCAMU~

- APPLIED ON 2025/03/11 -

2025/02164 ~ Complete ~54:HIGH EFFICIENCY ACID-BASE LEACHING METHODS AND SYSTEMS ~71:Sublime Systems, Inc., 28 Park Street, SOMERVILLE 02143, MA, USA, United States of America ~72: BENCK, Jesse D.;CHIANG, Yet-Ming;STERN, Michael C.~ 33:US ~31:63/375,307 ~32:12/09/2022;33:US ~31:63/417,272 ~32:18/10/2022

2025/02166 ~ Complete ~54:KIT TO PROMOTE DEVELOPMENTAL MYELINATION ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: DEONI, Sean;MAINARDI, Fabio;SCHNEIDER, Nora~ 33:EP ~31:22191027.6 ~32:18/08/2022;33:EP ~31:23186445.5 ~32:19/07/2023

2025/02170 ~ Complete ~54:FISCHER-TROPSCH PRODUCTION OF HYDROCARBONS FROM METHANOL ~71:BP P.L.C., 1 St James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James;SUNLEY, John Glenn~ 33:EP ~31:22190315.6 ~32:12/08/2022

2025/02175 ~ Complete ~54:GRANULES FOR SUSPENSION ~71:PTC THERAPEUTICS, INC., 500 Warren Corporate Center Drive, Warren, New Jersey, 07059, United States of America ~72: JIN HAN;KAZUHIRO HOKONOHARA;MEGUMI MARUYAMA;TOMOHIRO NOBUTO;YOSHIHIRO ONOUE~ 33:JP ~31:2022-144675 ~32:12/09/2022

2025/02177 ~ Complete ~54:COMPOSITION FOR TREATING HIV INFECTION ~71:NATIONAL INSTITUTES OF BIOMEDICAL INNOVATION, HEALTH AND NUTRITION, 7-6-8, Saito-Asagi, Ibaraki-shi, Osaka, 5670085, Japan ~72: TOMOTAKA OKAMURA;YASUHIRO YASUTOMI~ 33:JP ~31:2022-140218 ~32:02/09/2022

2025/02180 ~ Complete ~54:STRETCH HOOD WRAPPING SYSTEM ~71:BENSCH, Martin Jonathan, 20 Victoria Road, Clifton, South Africa ~72: BENSCH, Martin Jonathan~ 33:ZA ~31:2023/03330 ~32:06/09/2023;33:WO ~31:PCT/IB2024/058407 ~32:29/08/2024

2025/02174 ~ Complete ~54:PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING NEPHRITIS ~71:DAEWOONG PHARMACEUTICAL CO., LTD., 35-14, Jeyakgongdan 4-gil, Hyangnam-eup, Hwaseong-si, Gyeonggi-do, 18623, Republic of Korea ~72: CAROLINE HEE LEE;JOON SEOK PARK;MIN JAE CHO~ 33:KR ~31:10-2022-0130547 ~32:12/10/2022

2025/02182 ~ Complete ~54:AN INDUSTRIAL SCALE POWER PLANT, A SYSTEM INCLUDING AN INDUSTRIAL SCALE POWER PLANT AND ONE OR MORE APPLIANCES, A CONVECTION OVEN, AND A HOT AND COLD THERMAL FLUID SUPPLY METHOD ~71:PARTNERS WITH SUN INC., 2100 N Greenville Ave, Richardson, TX 75082, United States of America ~72: HAMDAN, Toufic Fawzi~ 33:NL ~31:2033272 ~32:10/10/2022

2025/02145 ~ Complete ~54:DOUBLE DETECTION REAGENT KIT FOR BORDER DISEASE VIRUS AND APPLICATION ~71:China Institute of Veterinary Drug Control, No. 8 Zhongguancun South Street, Haidian District, Beijing, 100086, People's Republic of China ~72: CHEN, Xiaochun;DENG, Yong;HUANG, Xiaojie;KONG, Dongni;LIU, Dan;QIN, Yixian;SU, Jia;WU, Huawei;XUE, Qinghong~

2025/02146 ~ Complete ~54:CONSTRUCTION METHOD CAPABLE OF REALIZING ENERGY SAVING RATE OF 80 PERCENT FOR GREEN RESIDENTIAL BUILDINGS ~71:Jiangsu Vocational Institute of Architectural Technology, No. 26 Xueyuan Road, Tongshan District, Xuzhou City, Jiangsu Province, 221116, People's Republic of China ~72: DU, Bin;HUANG, Yong;WANG, Junqiang~

2025/02149 ~ Complete ~54:A SIDE DOOR HINGE WITH ENHANCED OPENING ANGLE FOR VEHICLES ~71:MAHINDRA & MAHINDRA LTD, Mahindra Towers, G.M. Bhosale Marg, Worli, India ~72: MOHANTY, Abhinab;PANDURANGAN, Venugopal;SELVAN, Veera;SRIVASTAV, Abhay~ 33:IN ~31:202421088974 ~32:18/11/2024

2025/02156 ~ Complete ~54:ELECTROLYSIS APPARATUS FOR THE PRODUCTION OF IRON WITH AN IMPROVED GAS PERMEABLE ANODE PLATE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Hervé LAVELAINE DE MAUBEUGE~

2025/02169 ~ Complete ~54:FISCHER-TROPSCH PRODUCTION OF HYDROCARBONS FROM CARBON DIOXIDE THROUGH METHANOL ~71:BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James;SUNLEY, John Glenn~ 33:EP ~31:22190306.5 ~32:12/08/2022

2025/02179 ~ Complete ~54:SEED TREATMENT TO INDUCE BACTERIAL BIOFILM FORMATION ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, Office of Technology Transfer 1111 Franklin Street, 12th Floor, Oakland, California, 94607-5200, United States of America ~72: DAWEI YAN;EDUARDO BLUMWALD~ 33:US ~31:63/413,187 ~32:04/10/2022

2025/02141 ~ Provisional ~54:SPIKE STRUCTURE FOR A FENCE SYSTEM ~71:Q FORT SERVICE (PTY) LTD, 13 Newton Road, Hughes, South Africa ~72: TBA~

2025/02159 ~ Complete ~54:METHOD AND SYSTEM FOR REGULATING DESERT GREENHOUSE THEREOF ~71:SICHUAN AGRICULTURAL UNIVERSITY, No. 211 Huimin Road, Wenjiang District, Chengdu, Sichuan, 611130, People's Republic of China ~72: GUO Kexin;JIANG Chengyao;LI Mengyao;LIU Yifei;LU Wei;PENG Wenjun;WANG Sen;ZHENG Yangxia;ZHOU Chengbo~ 33:CN ~31:2023109262579 ~32:26/07/2023

2025/02162 ~ Complete ~54:CYTOTOXIC COMPOUNDS AND CONJUGATES THEREOF ~71:Seagen Inc., 21823 30th Drive SE, BOTHELL 98021, WA, USA, United States of America ~72: BLAHNIK-FAGAN, Gabriele;DORONINA, Svetlana;DUNCAN, Nicole;MOQUIST, Philip;SANDALL, Sharsti~ 33:US ~31:63/397,776 ~32:12/08/2022;33:EP ~31:22202077.8 ~32:18/10/2022

2025/02168 ~ Complete ~54:SURFACE-TREATED STEEL SHEET ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2-chome, TOKYO 100-8071, CHIYODA-KU, JAPAN, Japan ~72: GOTO, Yasuto;KAWAMOTO, Kosuke;SAITO, Mamoru;SHOJI, Hiromasa~ 33:JP ~31:2022-138585 ~32:31/08/2022

2025/02178 ~ Complete ~54:LRRC-15-BINDING PROTEIN CONSTRUCTS AND USES THEREOF ~71:MYTHIC THERAPEUTICS, INC., 100 Beaver Street, Suite 303 Waltham, Massachusetts 02453, United States of America ~72: BRIAN FISKE;KYLE MICHAEL FITZGERALD;NIMISH GERA~ 33:US ~31:63/415,594 ~32:12/10/2022

2025/02184 ~ Provisional ~54:EYELET CURTAIN SPACER ~71:Olaf Marthinus Bergh, 44 MEADOW AVE EQUESTRIA, South Africa ~72: Olaf Marthinus Bergh~

2025/02192 ~ Complete ~54:SOIL ANALYSIS COMPOSITIONS AND METHODS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: NELSON, Rachel;PETROSKI, Richard~ 33:US ~31:62/792,542 ~32:15/01/2019

2025/02190 ~ Complete ~54:SOIL ANALYSIS COMPOSITIONS AND METHODS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: NELSON, Rachel;PETROSKI, Richard~ 33:US ~31:62/792,542 ~32:15/01/2019

2025/02154 ~ Complete ~54:NETWORK NODES, AND METHODS PERFORMED THEREIN FOR UPDATING NETWORK FUNCTIONS IN A WIRELESS COMMUNICATIONS NETWORK ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: DE GREGORIO RODRIGUEZ, Jesús Ángel;FORSMAN, Maud;LI, Peng;MERANO VAZQUEZ, Emiliano;OLSSON, Lasse;YANG, Jian~ 33:US ~31:63/419,240 ~32:25/10/2022;33:CN ~31:PCT/CN2023/086892 ~32:07/04/2023

2025/02161 ~ Complete ~54:IMPROVED SECURITY ESTABLISHMENT METHODS AND SYSTEMS ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: GARCIA MORCHON, Oscar~ 33:EP ~31:22190117.6 ~32:12/08/2022;33:EP ~31:22190129.1 ~32:12/08/2022;33:EP ~31:22190133.3 ~32:12/08/2022;33:EP ~31:22190140.8 ~32:12/08/2022;33:EP ~31:22190146.5 ~32:12/08/2022;33:EP ~31:22190152.3 ~32:12/08/2022;33:EP ~31:22190162.2 ~32:12/08/2022;33:EP ~31:22190168.9 ~32:12/08/2022;33:EP ~31:22190179.6 ~32:12/08/2022;33:EP ~31:22190185.3 ~32:12/08/2022;33:EP ~31:22190191.1 ~32:12/08/2022;33:EP ~31:22198612.8 ~32:29/09/2022;33:EP ~31:22198619.3 ~32:29/09/2022;33:EP ~31:22198622.7 ~32:29/09/2022;33:EP ~31:22198629.2 ~32:29/09/2022;33:EP ~31:22198638.3 ~32:29/09/2022;33:EP ~31:22198644.1 ~32:29/09/2022;33:EP ~31:22198647.4 ~32:29/09/2022;33:EP ~31:22198655.7 ~32:29/09/2022;33:EP ~31:22198659.9 ~32:29/09/2022;33:EP ~31:22198663.1 ~32:29/09/2022;33:EP ~31:22198668.0 ~32:29/09/2022;33:EP ~31:23150571.0 ~32:06/01/2023;33:EP ~31:23156019.4 ~32:10/02/2023;33:EP ~31:23167539.8 ~32:12/04/2023;33:EP ~31:23172719.9 ~32:11/05/2023;33:EP ~31:23175238.7 ~32:25/05/2023;33:EP ~31:23177737.6 ~32:06/06/2023;33:EP ~31:23188517.9 ~32:28/07/2023

2025/02183 ~ Complete ~54:SEWAGE TREATMENT APPARATUS ~71:Xi'an Xike Energy Saving Technology Service Co., Ltd, Room 411, 鄠sheng Building, No. 72, Gaoxin 6th Road, High-tech Zone, Xi'an, People's Republic of China ~72: Gao Hang;XU Kui;Zhang Haiyang~ 33:CN ~31:CN202420469178X ~32:11/03/2024

2025/02153 ~ Complete ~54:SYSTEM AND METHOD FOR A SELF-SUSTAINING GRAPHITE FUEL MECHANISM ~71:Harjinder Singh Cheema, #1580, Sector-69 Mohali Punjab 160062, India;J. P. Kundra, 1364,

Sector 49B Chandigarh Punjab 160047, India;Meher Cheema, #1580, Sector-69 Mohali Punjab 160062, India;Sahej Kaur Cheema, #1580, Sector-69 Mohali Punjab 160062, India ~72: Harjinder Singh Cheema;J. P. Kundra;Meher Cheema;Sahej Kaur Cheema~

2025/02165 ~ Complete ~54:IMPROVED SECURITY ESTABLISHMENT METHODS AND SYSTEMS
 ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands
 ~72: GARCIA MORCHON, Oscar~ 33:EP ~31:22190117.6 ~32:12/08/2022;33:EP ~31:22190129.1
 ~32:12/08/2022;33:EP ~31:22190133.3 ~32:12/08/2022;33:EP ~31:22190140.8 ~32:12/08/2022;33:EP
 ~31:22190146.5 ~32:12/08/2022;33:EP ~31:22190152.3 ~32:12/08/2022;33:EP ~31:22190162.2
 ~32:12/08/2022;33:EP ~31:22190168.9 ~32:12/08/2022;33:EP ~31:22190179.6 ~32:12/08/2022;33:EP
 ~31:22190185.3 ~32:12/08/2022;33:EP ~31:22190191.1 ~32:12/08/2022;33:EP ~31:22198612.8
 ~32:29/09/2022;33:EP ~31:22198619.3 ~32:29/09/2022;33:EP ~31:22198622.7 ~32:29/09/2022;33:EP
 ~31:22198629.2 ~32:29/09/2022;33:EP ~31:22198638.3 ~32:29/09/2022;33:EP ~31:22198644.1
 ~32:29/09/2022;33:EP ~31:22198647.4 ~32:29/09/2022;33:EP ~31:22198655.7 ~32:29/09/2022;33:EP
 ~31:22198659.9 ~32:29/09/2022;33:EP ~31:22198668.0 ~32:29/09/2022;33:EP ~31:23150571.0
 ~32:29/09/2022;33:EP ~31:23156019.4 ~32:10/02/2023;33:EP ~31:23167539.8 ~32:12/04/2023;33:EP
 ~31:23172719.9 ~32:11/05/2023;33:EP ~31:23175238.7 ~32:25/05/2023;33:EP ~31:23177737.6
 ~32:06/06/2023;33:EP ~31:23188517.9 ~32:28/07/2023

2025/02173 ~ Complete ~54:SEA SURFACE TEMPERATURE PREDICTION METHOD AND APPARATUS, AND ELECTRONIC DEVICE AND STORAGE MEDIUM ~71:AEROSPACE INFORMATION RESEARCH INSTITUTE, CHINESE ACADEMY OF SCIENCES, No.9 Dengzhuang South Road, Haidian District, Beijing, 100094, People's Republic of China ~72: CHENG FAN;HAO ZHANG;JIE GUANG;LUO ZHANG;MINGJUN LIANG;YANG LV;YUANBEN ZHANG;YUNPENG BAI;ZHENGQIANG LI~ 33:CN ~31:202310426965.6 ~32:20/04/2023

2025/02158 ~ Complete ~54:LIPID ANALOGS, LIPOSOMES COMPRISING SAME AND USES THEREOF
 ~71:LIPOSPHERE LTD., 1 HaArava Street, 6th Floor, Israel ~72: GOLDBERG, Ronit;GRUPI, Asaf;HARNOY, Assaf J.;JAHN, Sabrina~ 33:US ~31:63/402,097 ~32:30/08/2022;33:US ~31:63/427,943 ~32:25/11/2022

2025/02167 ~ Complete ~54:IMPROVED SECURITY ESTABLISHMENT METHODS AND SYSTEMS
 ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands
 ~72: GARCIA MORCHON, Oscar~ 33:EP ~31:22190117.6 ~32:12/08/2022;33:EP ~31:22190129.1
 ~32:12/08/2022;33:EP ~31:22190133.3 ~32:12/08/2022;33:EP ~31:22190140.8 ~32:12/08/2022;33:EP
 ~31:22190146.5 ~32:12/08/2022;33:EP ~31:22190152.3 ~32:12/08/2022;33:EP ~31:22190162.2
 ~32:12/08/2022;33:EP ~31:22190168.9 ~32:12/08/2022;33:EP ~31:22190179.6 ~32:12/08/2022;33:EP
 ~31:22190185.3 ~32:12/08/2022;33:EP ~31:22190191.1 ~32:12/08/2022;33:EP ~31:22198612.8
 ~32:29/09/2022;33:EP ~31:22198619.3 ~32:29/09/2022;33:EP ~31:22198622.7 ~32:29/09/2022;33:EP
 ~31:22198629.2 ~32:29/09/2022;33:EP ~31:22198638.3 ~32:29/09/2022;33:EP ~31:22198644.1
 ~32:29/09/2022;33:EP ~31:22198647.4 ~32:29/09/2022;33:EP ~31:22198655.7 ~32:29/09/2022;33:EP
 ~31:22198659.9 ~32:29/09/2022;33:EP ~31:22198663.1 ~32:29/09/2022;33:EP ~31:22198668.0
 ~32:29/09/2022;33:EP ~31:23150571.0 ~32:06/01/2023;33:EP ~31:23156019.4 ~32:10/02/2023;33:EP
 ~31:23167539.8 ~32:12/04/2023;33:EP ~31:23172719.9 ~32:11/05/2023;33:EP ~31:23175238.7
 ~32:25/05/2023;33:EP ~31:23177737.6 ~32:06/06/2023;33:EP ~31:23188517.9 ~32:28/07/2023

2025/02171 ~ Complete ~54:IMPROVED SECURITY ESTABLISHMENT METHODS AND SYSTEMS
 ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands
 ~72: GARCIA MORCHON, Oscar~ 33:EP ~31:22190117.6 ~32:12/08/2022;33:EP ~31:22190129.1
 ~32:12/08/2022;33:EP ~31:22190133.3 ~32:12/08/2022;33:EP ~31:22190140.8 ~32:12/08/2022;33:EP
 ~31:22190146.5 ~32:12/08/2022;33:EP ~31:22190152.3 ~32:12/08/2022;33:EP ~31:22190162.2
 ~32:12/08/2022;33:EP ~31:22190168.9 ~32:12/08/2022;33:EP ~31:22190179.6 ~32:12/08/2022;33:EP

~31:22190185.3 ~32:12/08/2022;33:EP ~31:22190191.1 ~32:12/08/2022;33:EP ~31:22198612.8
~32:29/09/2022;33:EP ~31:22198619.3 ~32:29/09/2022;33:EP ~31:22198622.7 ~32:29/09/2022;33:EP
~31:22198629.2 ~32:29/09/2022;33:EP ~31:22198638.3 ~32:29/09/2022;33:EP ~31:22198644.1
~32:29/09/2022;33:EP ~31:22198647.4 ~32:29/09/2022;33:EP ~31:22198655.7 ~32:29/09/2022;33:EP
~31:22198659.9 ~32:29/09/2022;33:EP ~31:22198663.1 ~32:29/09/2022;33:EP ~31:22198668.0
~32:29/09/2022;33:EP ~31:23150571.0 ~32:06/01/2023;33:EP ~31:23156019.4 ~32:10/02/2023;33:EP
~31:23167539.8 ~32:12/04/2023;33:EP ~31:23172719.9 ~32:11/05/2023;33:EP ~31:23175238.7
~32:25/05/2023;33:EP ~31:23177737.6 ~32:06/06/2023;33:EP ~31:23188517.9 ~32:28/07/2023

2025/02176 ~ Complete ~54:PORTABLE APPARATUS AND ASSOCIATED METHODS ~71:JEMELLA LIMITED,
82 Dean Street, London, W1D 3SP, United Kingdom ~72: ANDREW NORFOLK;GEORGE KING~ 33:GB
~31:2213020.7 ~32:06/09/2022

2025/02186 ~ Provisional ~54:SOLAR POWERED WIRELESS OUTDOOR CELLULAR ARMED SECURITY
CAMERA WITH BUILT-IN AUTOMATIC AIR RIFLE SUPPORT WIRELESS 4G SIM CARD SUPPORT MICRO
SD CARD SUPPORT CLOUD STORAGE SUPPORT P2P REMOTE CONTROL, AND MONITORING VIA THE
APP. ~71:AHMED WASEEF SAIB, 24 park avenue desainagar, South Africa ~72: AHMED WASEEF SAIB~

2025/02142 ~ Provisional ~54:CRYO-NANO-DISPERSION SYSTEM FOR EXTRACTING BIOACTIVE
COMPOUNDS FROM SEAWEED ~71:Grant Marcus Rutenberg, 1 Restio Close, Lake Michelle, Noordhoek,
Cape Town, Western Cape, 7975, South Africa ~72: Grant Marcus Rutenberg~

2025/02144 ~ Complete ~54:DEPTH ADJUSTMENT APPARATUS FOR PRECISION WHEAT SEEDER
~71:Crop Research Institute, Ningxia Academy of Agriculture and Forestry Sciences, No. 590, Huanghe East
Road, Jinfeng District, Yinchuan City, Ningxia Hui Autonomous Region, 750002, People's Republic of China ~72:
BAI, Haibo;CAO, Lina;CHEN, Dongsheng;DING, Xiuling;DONG, Yan;HE, Jinshang;KANG, Ling;LIU,
Wangqing;WANG, Xiaoliang;ZHANG, Weijun~

2025/02148 ~ Complete ~54:METHOD FOR ANALYZING AND PREDICTING DEPRESSION PROGNOSIS
EVOLUTION BASED ON MULTI-HEAD ATTENTION MECHANISM ~71:Tianjin Anding Hospital, No. 13 Liulin
Road, Hexi District, Tianjin City, 300222, People's Republic of China ~72: LI, Peiyong;ZHANG, Bin~

2025/02151 ~ Complete ~54:A SMART IOT-BASED SYSTEM TO OPTIMIZE AGRICULTURAL EFFICIENCY
AND RESOURCE UTILIZATION ~71:Dr. B. Senthil, S/o. Mr. G. Balakrishnan, Plot No. 2, F1, Vivek Enclave, 1st
Cross Street, Padmavathy Nagar, Madambakkam, Selaiyur, Chennai, Tamil Nadu, 600126, India;Dr. P.
Anuradha, D/o. Dr. P. Srinivasulu, Plot 25, 3rd Cross Street, Dr. Seethapathy Nagar, Velachery, Chennai, Tamil
Nadu, 600042, India;Dr. V. R. Pathmavathi, D/o. Mr. V Ramasamy, Plot No. 7, F1, kumaraguru Enclave, Kalaigai
Salai, Kovilambakkam, Chennai, Tamil Nadu, 600117, India;L. N. Narayanan, S/o. Mr. T. Lakshmi Narasimman,
No. 12/43, Sriram Nagar II Cross Street, I floor, Selaiyur, Chennai, Tamil Nadu, 600073, India;V. Malarvizhi, D/o.
Mr. P. Vellaisamy, 29/D Ambethkar Street, Pallikaranai, Chennai, Tamil Nadu, 600100, India;V. Sudhakar, S/o.
Mr. V. Krishnamurthy, B4 - 12, Block B, Ruby Dakshin, Soundararajan Street, Paduvanchery, Chennai, Tamil
Nadu, 600126, India ~72: Dr. B. Senthil;Dr. P. Anuradha;Dr. V. R. Pathmavathi;L. N. Narayanan;V. Malarvizhi;V.
Sudhakar~ 33:IN ~31:202541011714 ~32:12/02/2025

2025/02155 ~ Complete ~54:MICROSPHERE FORMULATION FOR NUCLEIC ACID AMPLIFICATION,
AMPLIFICATION METHOD, AND USE IN JOINT DETECTION ~71:SHANGHAI BIOGERM MEDICAL
TECHNOLOGY CO., LTD., Rooms 1302, 1303, 1304, 1305, 1306, 1307, 1309, Building 3, No.1588, Shanghai-
Hangzhou Highway, Fengxian District, Shanghai, 201415, People's Republic of China ~72: LI CHUNYAN;LI
PEI;ZHAO BAIHUI~ 33:CN ~31:202211133161.9 ~32:16/09/2022

2025/02143 ~ Complete ~54:URBAN SPONGE UNDERGROUND DRAINAGE AND WATER STORAGE SYSTEM FOR FLOOD AND DROUGHT CONTROL ~71:Shandong Jiaotong University, No.1508, Hexing Road, Shuangdaowan Science and Technology Town, Weihai, Shandong Province, 264200, People's Republic of China ~72: Xiaowei JIN;Yuhua WANG~ 33:CN ~31:2024110647280 ~32:05/08/2024

2025/02147 ~ Complete ~54:A TERNARY CARBON AEROGEL FOR THE EFFICIENT REMOVAL OF 4-NITROPHENOL (4-NP) AND ITS PREPARATION METHOD ~71:Shenyang Jianzhu University, No. 25 Hunnan Middle Road, Hunnan District, Shenyang City, Liaoning Province, People's Republic of China ~72: Xiang Tao;Zhu Lehan~ 33:CN ~31:2024116760018 ~32:22/11/2024

2025/02160 ~ Complete ~54:IMPROVED SECURITY ESTABLISHMENT METHODS AND SYSTEMS ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: GARCIA MORCHON, Oscar~ 33:EP ~31:22190117.6 ~32:12/08/2022;33:EP ~31:22190129.1 ~32:12/08/2022;33:EP ~31:22190133.3 ~32:12/08/2022;33:EP ~31:22190140.8 ~32:12/08/2022;33:EP ~31:22190146.5 ~32:12/08/2022;33:EP ~31:22190152.3 ~32:12/08/2022;33:EP ~31:22190162.2 ~32:12/08/2022;33:EP ~31:22190168.9 ~32:12/08/2022;33:EP ~31:22190179.6 ~32:12/08/2022;33:EP ~31:22190185.3 ~32:12/08/2022;33:EP ~31:22190191.1 ~32:12/08/2022;33:EP ~31:22198612.8 ~32:29/09/2022;33:EP ~31:22198619.3 ~32:29/09/2022;33:EP ~31:22198622.7 ~32:29/09/2022;33:EP ~31:22198629.2 ~32:29/09/2022;33:EP ~31:22198638.3 ~32:29/09/2022;33:EP ~31:22198644.1 ~32:29/09/2022;33:EP ~31:22198647.4 ~32:29/09/2022;33:EP ~31:22198655.7 ~32:29/09/2022;33:EP ~31:22198659.9 ~32:29/09/2022;33:EP ~31:22198663.1 ~32:29/09/2022;33:EP ~31:22198668.0 ~32:29/09/2022;33:EP ~31:23150571.0 ~32:06/01/2023;33:EP ~31:23156019.4 ~32:10/02/2023;33:EP ~31:23167539.8 ~32:12/04/2023;33:EP ~31:23172719.9 ~32:11/05/2023;33:EP ~31:23175238.7 ~32:25/05/2023;33:EP ~31:23177737.6 ~32:06/06/2023;33:EP ~31:23188517.9 ~32:28/07/2023

2025/02181 ~ Complete ~54:INHIBITORS OF HUMAN ALDOSTERONE SYNTHASE (CYP11B2) ~71:«TARGET MEDICALS» LIMITED LIABILITY COMPANY, str. Nobelya, d. 7, floor 1, room 134, Russian Federation ~72: GEORGE, Pascal;GILEP, Andrei Aleksandrovich;STRUSHKEVICH, Natallia Vladimirovna~ 33:RU ~31:2022129211 ~32:10/11/2022;33:RU ~31:2023108992 ~32:10/04/2023;33:RU ~31:2023120694 ~32:07/08/2023

2025/02150 ~ Complete ~54:METHOD AND SYSTEM FOR FABRICATION AND PERFORMANCE TESTING OF LAYERED BEARING STRUCTURE IN ROADWAY SURROUNDING ROCK ~71:Anhui University of Science and Technology, No.168, Taifeng Street, Shannan New District, Huainan City, Anhui Province, 232000, People's Republic of China;China Coal Group Shanxi Co., Ltd., No.426, South Zhonghuan Street, Xuefu Industrial Park, Shanxi Comprehensive Reform Zone, Taiyuan City, Shanxi Province, 030032, People's Republic of China;Shandong University of Science and Technology, No.579, QianwangangRoad, Huangdao District, Qingdao City, Shandong Province, 266510, People's Republic of China;Shanxi Xingxian Huarun Liansheng Chejiazhuang Coal Industry Co., Ltd., Chengjiagou Village, Weifen Town, Xing County, Lvliang City, Shanxi Province, 033699, People's Republic of China ~72: AN,Junpeng;GU,Qingheng;GUO,Weiyao;LIU,Xuesheng;MENG,Xiangrui;QIAO,Bin;WANG,Shouguo;ZHAO,Guang ming~ 33:CN ~31:CN202510025989.X ~32:08/01/2025

2025/02152 ~ Complete ~54:CRYSTALLINE FORMS OF A BRUTON'S TYROSINE KINASE INHIBITOR ~71:PHARMACYCLICS LLC, 1 N. Waukegan Road, United States of America ~72: GOLDMAN, Erick;PURRO, Norbert;SMYTH, Mark;WIRTH, David, D.~ 33:US ~31:61/655,381 ~32:04/06/2012

2025/02157 ~ Complete ~54:DISINFECTION SYSTEMS AND METHODS ~71:SOCLEAN, INC., 1 Vose Farm Road, United States of America ~72: James KNIGHT~ 33:US ~31:63/375,992 ~32:16/09/2022;33:US ~31:63/458,527 ~32:11/04/2023;33:US ~31:63/458,578 ~32:11/04/2023

2025/02163 ~ Complete ~54:M4 ACTIVATORS/MODULATORS AND USES THEREOF ~71:Cerevel Therapeutics, LLC, 222 Jacobs Street, Suite 200, CAMBRIDGE 02141, MA, USA, United States of America ~72: JOHNSON, Shea;LIM, Jongwon;NGUYEN, Hanh;PIN, Sokhom;ZHANG, David;ZHANG, Xiaofeng~ 33:US ~31:63/407,358 ~32:16/09/2022

2025/02172 ~ Complete ~54:IMPROVED SECURITY ESTABLISHMENT METHODS AND SYSTEMS ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: GARCIA MORCHON, Oscar~ 33:EP ~31:22190117.6 ~32:12/08/2022;33:EP ~31:22190129.1 ~32:12/08/2022;33:EP ~31:22190133.3 ~32:12/08/2022;33:EP ~31:22190140.8 ~32:12/08/2022;33:EP ~31:22190146.5 ~32:12/08/2022;33:EP ~31:22190152.3 ~32:12/08/2022;33:EP ~31:22190162.2 ~32:12/08/2022;33:EP ~31:22190168.9 ~32:12/08/2022;33:EP ~31:22190179.6 ~32:12/08/2022;33:EP ~31:22190185.3 ~32:12/08/2022;33:EP ~31:22190191.1 ~32:12/08/2022;33:EP ~31:22198612.8 ~32:29/09/2022;33:EP ~31:22198619.3 ~32:29/09/2022;33:EP ~31:22198622.7 ~32:29/09/2022;33:EP ~31:22198629.2 ~32:29/09/2022;33:EP ~31:22198638.3 ~32:29/09/2022;33:EP ~31:22198644.1 ~32:29/09/2022;33:EP ~31:22198647.4 ~32:29/09/2022;33:EP ~31:22198655.7 ~32:29/09/2022;33:EP ~31:22198659.9 ~32:29/09/2022;33:EP ~31:22198663.1 ~32:29/09/2022;33:EP ~31:22198668.0 ~32:29/09/2022;33:EP ~31:23150571.0 ~32:06/01/2023;33:EP ~31:23156019.4 ~32:10/02/2023;33:EP ~31:23167539.8 ~32:12/04/2023;33:EP ~31:23172719.9 ~32:11/05/2023;33:EP ~31:23175238.7 ~32:25/05/2023;33:EP ~31:23177737.6 ~32:06/06/2023;33:EP ~31:23188517.9 ~32:28/07/2023

2025/02191 ~ Complete ~54:SOIL ANALYSIS COMPOSITIONS AND METHODS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: NELSON, Rachel;PETROSKI, Richard~ 33:US ~31:62/792,542 ~32:15/01/2019

- APPLIED ON 2025/03/12 -

2025/02215 ~ Complete ~54:METHODS AND COMPOSITIONS FOR SELECTIVE REGULATION OF PROTEIN EXPRESSION ~71:Monsanto Technology LLC, 800 North Lindbergh Boulevard, ST. LOUIS 63167, MO, USA, United States of America ~72: GRIFFITH, Cara L.;KIM, Jeongwoon;O'BRIEN, Brent A.;YANG, Heping~ 33:US ~31:63/375,681 ~32:14/09/2022

2025/02217 ~ Complete ~54:PHthalazine DERIVATIVES USEFUL AS INHIBITORS OF NOD-LIKE RECEPTOR PROTEIN 3 ~71:Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States of America ~72: HAYES, Donna A. A. W.;KARNACHI, Prabha;KIEFFER, Madeleine Eileen;MCCLYMONT, Kyle S.;MERCHANT, Rohan Rajiv;METWALLY, Essam;NAIR, Anilkumar G.;QI, Ning;SANZONE, Jillian Rose;SCIAMMETTA, Nunzio;SOUTHGATE, Emma H.;TAN, Zheng;TAOKA, Brandon M.~ 33:US ~31:63/409,432 ~32:23/09/2022

2025/02220 ~ Complete ~54:RECOMBINANT LSDV VECTORED FOOT AND MOUTH DISEASE ANTIGENIC CONSTRUCTS ~71:UNIVERSITY OF CAPE TOWN, Bremner Building, Lovers Walk, Rondebosch, Cape Town, 7700, South Africa ~72: ANNA-LISE WILLIAMSON;ROSAMUND CHAPMAN;WARREN RALPH JOSEPHUS DE MOOR~ 33:GB ~31:2217045.0 ~32:15/11/2022

2025/02223 ~ Complete ~54:BRM TARGETING COMPOUNDS AND ASSOCIATED METHODS OF USE ~71:PRELUDE THERAPEUTICS INCORPORATED, 175 Innovation Boulevard, Wilmington, Delaware 19805, United States of America ~72: ANDREW COMBS;ARTEM SHVARTSBART;COREY HOWARD BASCH;DANIELLE BEAM ROTH;JOHN A ROSE;KLARE L BERSCH;LIANG LIU;SINA REZAZADEH;SONG MEI;VIJAYARAJAN DEVANNAH~ 33:US ~31:63/375,739 ~32:15/09/2022

2025/02193 ~ Complete ~54:MULTI-LAYER NONWOVEN PRODUCTION EQUIPMENT CAPABLE OF ADJUSTING CONVEYOR BELT ~71:Zhejiang CL Nonwoven Machinery Co., LTD., No.39 Qinfeng Road, Xianyan

Street, Ouhai District, Wenzhou, People's Republic of China ~72: Fangyong ZHU;Feiyu CHEN;Haibo HUANG;Mei CHEN;Yingxian CHEN;Zhengshuo LIU~ 33:CN ~31:2024114795883 ~32:23/10/2024

2025/02196 ~ Complete ~54:SEAL ARRANGEMENT FOR DUCTING ~71:UNIQUE VENTILATION AND SUPPORT SYSTEMS (PTY) LTD, 1 Resnick Street, Fectoria, South Africa ~72: JAKES VAN DER MERWE~

2025/02199 ~ Complete ~54:ADAPTIVE MULTI-SURFACE NON-DESTRUCTIVE ADHESION-DETACHMENT ACTUATOR ~71:YANCHENG INSTITUTE OF TECHNOLOGY, No. 1 Mid. Xiwang Avenue, Yancheng, People's Republic of China ~72: LU, Qian;XU, Chi;ZHANG, Chunwei;ZHOU, Linzhen;ZHOU, Linzhen~ 33:CN ~31:2025101327911 ~32:26/02/2025

2025/02202 ~ Complete ~54:APPARATUS AND METHOD FOR TRANSPORTING WOOD IN STEEP TERRAIN ~71:ECOFORST GMBH, Pichl-Großdorf 49a, Austria;KONRAD FORSTTECHNIK GMBH, Oberpreitenegg 52, Austria ~72: KONRAD, Markus~ 33:AT ~31:A 50762/2022 ~32:03/10/2022

2025/02204 ~ Complete ~54:A DISPLACEMENT MEASURING DEVICE FOR INSTALLATION IN A ROCK HOLE ~71:INNOVATIVE MINING PRODUCTS (PTY) LTD, 109 Adcock Ingram Avenue, Aeroton, South Africa ~72: ABREU, Rual;KNOX, Greig;PASTORINO, Paolo~ 33:ZA ~31:2022/09801 ~32:20/09/2022

2025/02218 ~ Complete ~54:PHARMACEUTICAL COMBINATION COMPRISING A CHOLANE DERIVATIVE AND A STATIN OR URSODESOXYCHOLIC ACID ~71:Bar Pharmaceuticals Societa' a Responsabilita' limitata, Via Gramsci, 88/A, REGGIO NELL"EMILIA 42124, ITALY, Italy ~72: FIORUCCI, Stefano;ZAMPELLA, Angela~ 33:IT ~31:102022000018669 ~32:13/09/2022

2025/02222 ~ Complete ~54:ANTIBODIES, COMPOSITIONS, AND METHODS OF TREATMENT ~71:TETHEREX PHARMACEUTICALS CORPORATION, 840 Research Parkway, Oklahoma City, Oklahoma, 73104, United States of America ~72: RUSSELL ROTHER~ 33:US ~31:63/406,069 ~32:13/09/2022;33:US ~31:63/406,545 ~32:14/09/2022;33:US ~31:63/452,896 ~32:17/03/2023

2025/02203 ~ Complete ~54:RECOMBINANT IL-12 ALBUMIN BINDING DOMAIN FUSION PROTEINS FOR USE IN METHODS FOR THE TREATMENT OF CANCER ~71:SONNET BIOTHERAPEUTICS, INC., 100 Overlook Center, 2nd Floor Princeton, United States of America ~72: CINI, John, K.;KENNEY, Richard, T.~ 33:US ~31:63/421,846 ~32:02/11/2022

2025/02208 ~ Complete ~54:CELL SELECTION AND RESELECTION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KOSKINEN, Jussi-Pekka;TURTINEN, Samuli, Heikki~ 33:FI ~31:20225729 ~32:16/08/2022

2025/02229 ~ Complete ~54:SYSTEMS AND METHODS FOR DISCOVERING AND RECOVERING SUBSURFACE FLUIDS AND VERIFICATION OF SUBSURFACE STORAGE FLUIDS ~71:KOLOMA, INC., 7251 SAWMILL ROAD, SUITE 100, DUBLIN, OHIO, 43016, United States of America ~72: DARRAH, THOMAS;EYMOLD, WILLIAM;HARRINGTON, JACOB~ 33:US ~31:63/325,094 ~32:29/03/2022

2025/02194 ~ Complete ~54:INTERLEUKIN-2-FC FUSION PROTEINS AND METHODS OF USE ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: BACA, MANUEL;GILMORE, SARAH A.;HUNG, MAGDELEINE S.;JAVANBAKHT, HASSAN;KANWAR, MANU;KHAN, SHAHZADA;MUKHERJEE, PRASENJIT K.;NAGEL, MARK R.;PAPALIA, GIUSEPPE;TAM, DANNY W.;THOMAS, MAJLINDA K.~ 33:US ~31:63/104,376 ~32:20/10/2020;33:US ~31:63/181,075 ~32:28/04/2021

2025/02198 ~ Complete ~54:METHOD AND SYSTEM FOR SUPPRESSING RANDOM NOISE IN ULTRA-WIDEBAND RANGING ~71:HARBIN INSTITUTE OF TECHNOLOGY, No. 92, xidazhi street, Nangang District,

Harbin City, People's Republic of China ~72: Feng SHEN;Maosen CHENG;Ninghe YANG;Tong WAN;Xiangzun YU~ 33:CN ~31:2024113810091 ~32:30/09/2024

2025/02205 ~ Complete ~54:CELL RE-SELECTION ENHANCEMENTS ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KOSKINEN, Jussi-Pekka;TURTINEN, Samuli, Heikki;WU, Chunli~

2025/02214 ~ Complete ~54:MULTISPECIFIC PROTEINS AND RELATED METHODS ~71:Bicara Therapeutics Inc., 245 Main Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: BHATNAGAR, Jaya;GOSWAMI, Arvind Vittal;NAIR, Reshmi;SOMASUNDARAM, Veena;TAN, Seng-Lai;VARSHNEY, Avanish Kumar~ 33:US ~31:63/413,765 ~32:06/10/2022

2025/02188 ~ Provisional ~54:METHOD AND SYSTEM FOR OPERATING AN LED LIGHTING SYSTEM ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2025/02228 ~ Provisional ~54:AN ELECTRIC MOTOR HAVING A BENT OR CURVED ARMATURE COIL WITH A BI-POLAR EXCITATION SYSTEM ~71:REALEBOGA LESEGO TAU, 30 STATION STREET, KOCKSOORD, South Africa ~72: REALEBOGA LESEGO TAU ~

2025/02226 ~ Complete ~54:BACKPACK WITH MULTIMEDIA DEVICE ~71:Aleksey Gennadevich Pridorozhnyi, ul. Bolshaya Filevskaya, d.3., korp.4, kv.235, Moscow, 121087, Russian Federation ~72: Aleksey Gennadevich Pridorozhnyi~ 33:RU ~31:2023121466 ~32:16/08/2023

2025/02230 ~ Complete ~54:SYSTEMS AND METHODS FOR DISCOVERING AND RECOVERING SUBSURFACE FLUIDS AND VERIFICATION OF SUBSURFACE STORAGE FLUIDS ~71:KOLOMA, INC., 7251 SAWMILL ROAD, SUITE 100, DUBLIN, OHIO, 43016, United States of America ~72: DARRAH, THOMAS;EYMOLD, WILLIAM;HARRINGTON, JACOB~ 33:US ~31:63/325,094 ~32:29/03/2022

2025/02195 ~ Complete ~54:MACROCYCLIC BROAD SPECTRUM ANTIBIOTICS ~71:F. HOFFMANN-LA ROCHE AG, Grenzacherstrasse 124, Switzerland ~72: BOUDREAULT, Jonathan;KOEHLER, Michael Friedrich Thomas;PELLETIER, Guillaume;ROY, Stéphanie;SMITH, Peter Andrew;SOW, Boubacar;STURINO, Claudio;WINTER, Dana~ 33:US ~31:62/853,457 ~32:28/05/2019

2025/02197 ~ Complete ~54:WEARABLE SLEEPING GARMENT ~71:MAMAS TOUCH SLEEPING AIDS (PTY) LTD., 2050 Mirabel Crescent, Dainfern Valley Estate, Johannesburg 2191, Gauteng, SOUTH AFRICA, South Africa ~72: HENNING, Shannon~ 33:ZA ~31:2023/11393 ~32:12/12/2023

2025/02207 ~ Complete ~54:METHOD TO RESOLVE IMD GENERATED IN-DEVICE COEXISTENCE ISSUE ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KOSKELA, Jarkko, Tuomo;OLESEN, Poul;SABOURI-SICHANI, Faranaz;SEBIRE, Benoist, Pierre~ 33:US ~31:63/399,369 ~32:19/08/2022

2025/02211 ~ Complete ~54:MULTILAYER COVER FOR HOLDING A DEVICE ON A HUMAN BODY ~71:F2D Medical, Bâtiment Plug N Work, 2 rue Jean Perrin, COLOMBELLES 14460, FRANCE, France ~72: D'ESTAIS, Mathias;MENARD, Benjamin;VAUPRES, Maxime~ 33:FR ~31:FR2209449 ~32:19/09/2022

2025/02213 ~ Complete ~54:METHODS AND COMPOSITIONS FOR PROGNOSIS AND TREATMENT OF DILATED CARDIOMYOPATHY AND HEART FAILURE ~71:The Broad Institute, Inc., 415 Main Street, CAMBRIDGE 02142, MA, USA, United States of America;The General Hospital Corporation, 55 Fruit Street, BOSTON 02114, MA, USA, United States of America;The United States Government as represented by the

Department of Veterans Affairs, Office of Research and Development, Technology Transfer Program, 14RDTT, 810 Vermont Ave (NW), WASHINGTON 20420, DC, USA, United States of America ~72: ARAGAM, Krishna;GAZIANO, Liam;HUFFMAN, Jennifer~ 33:US ~31:63/401,343 ~32:26/08/2022

2025/02216 ~ Complete ~54:PASSIVE AND FORCED SYNTHESIS OF $\text{MG}(\text{OH})_2$ FOR THE PURPOSE OF SUPPLYING MAGNESIUM-BASED CAPTURE OF CO_2 ~71:Carbonfree Chemicals Holdings, LLC, 102 9th Street, Suite 300, SAN ANTONIO 78215, TX, USA, United States of America ~72: JONES, Joe~ 33:US ~31:63/400,604 ~32:24/08/2022

2025/02221 ~ Complete ~54:MULTISPECIFIC ANTIBODIES AND METHODS OF USE THEREOF ~71:DREN BIO, INC., 384 Foster City Blvd., Foster City, California, 94404, United States of America ~72: MEAGHAN HAPPER;NENAD TOMASEVIC;XIAODI DENG~ 33:US ~31:63/410,919 ~32:28/09/2022

2025/02189 ~ Provisional ~54:AI-DRIVEN HYPER-PERSONALISED DIGITAL EDUCATION SYSTEM WITH BLOCKCHAIN CREDENTIALING, EMOTIONAL AI, AND AI-POWERED NETWORK MARKETING MODEL ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: Kabelo Diale;Tumelo Sapa Malekane~

2025/02227 ~ Complete ~54:METHOD AND SYSTEM FOR THE AUTOMATED DETECTION OF CONVEYOR BELT FAULTS ~71:Aleksey Gennadevich Pridorozhnyi, ul. Bolshaya Filevskaya, d.3., korp.4, kv.235, Moscow, 121087, Russian Federation ~72: Aleksey Gennadevich Pridorozhnyi~ 33:RU ~31:2023121465 ~32:16/08/2023

2025/02187 ~ Provisional ~54:PRIVATE SECTOR-LED SOCIAL WEALTH FUND FOR ECONOMIC INCLUSION AND SUSTAINABLE GROWTH ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/02201 ~ Complete ~54:INTRUSION DETECTOR BASED ON MICROLENS ARRAY AND SINGLE-PIXEL IMAGING ~71:BEIJING INSTITUTE OF TECHNOLOGY, No. 5 Zhongguancun South Street, Haidian District, People's Republic of China ~72: ZHANG, Shengli;ZHANG, Yunuo~

2025/02206 ~ Complete ~54:SYSTEM FOR STORING A RADIOACTIVE SALT SOLUTION ~71:X-ENERGY, LLC, 801 THOMPSON AVENUE, SUITE 300, ROCKVILLE, MARYLAND 20852, USA, United States of America ~72: TILTON, Alex~ 33:US ~31:17/821,692 ~32:23/08/2022

2025/02209 ~ Complete ~54:VANADIUM-CHROMIUM ELECTROLYTE, METHOD FOR PREPARING THE SAME, AND REDOX FLOW BATTERY COMPOSED THEREOF ~71:DALIAN RONGKE POWER GROUP CO., LTD, No. 20-10, Yingchun Street, Dalian Huayuankou Economic Zone, People's Republic of China ~72: CHEN, Yanbo;GAO, Xinliang;HAO, Yue;SONG, Mingming;WANG, Delu;ZENG, Fanwu~ 33:CN ~31:20221120529.8 ~32:15/09/2022

2025/02212 ~ Complete ~54:MODIFIED FC POLYPEPTIDES WITH ENHANCED SIALYLATION ~71:Nuvig Therapeutics, Inc., 4200 Bohannon Drive, Suite 250, MENLO PARK 94025, CA, USA, United States of America ~72: COFFEY, Greg P.;CONLEY, Pamela B.;KARBARZ, Mark J.~ 33:US ~31:63/375,490 ~32:13/09/2022;33:US ~31:63/512,013 ~32:05/07/2023

2025/02225 ~ Complete ~54:ATR-REFORMING ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: ARUNABH SAHAI;KIM AASBERG-PETERSEN;STEFFEN SPANGSBERG CHRISTENSEN;THOMAS SANDAHL CHRISTENSEN~ 33:IN ~31:202211053160 ~32:16/09/2022;33:EP ~31:23156113.5 ~32:10/02/2023

2025/02200 ~ Complete ~54:FILLER FOR TREATING ORBITAL DEPRESSION ~71:SHANGHAI OUBANG MEDICAL MANAGEMENT (GROUP) CO., LTD, 88 Huaihong Road, Minhang District, People's Republic of China ~72: CUI, Hairu~

2025/02219 ~ Complete ~54:ACCURATE MEASUREMENT OF SPECTRAL REFLECTIVITY OF FLOTATION FROTH BUBBLES ~71:BLUE CUBE TECHNOLOGY (PTY) LTD, Unit Ramp (Mill Square) Ground floor Anglo African Building 4 Plein Street, South Africa ~72: DU PLESSIS, Francois Eberhardt~ 33:ZA ~31:2022/09994 ~32:08/09/2022

2025/02224 ~ Complete ~54:COMPOSITIONS COMPRISING AND METHODS OF USING 1,3-PROPANEDIOL TO IMPROVE SWEETNESS AND/OR REDUCE BITTERNESS OF SWEETENERS ~71:PRIMIANT COVATION LLC, 198 Blair Bend Drive, Loudon, Tennessee, 37774, United States of America ~72: ALEXANDER H WOO;SEAN L GAHAN~ 33:US ~31:63/407,250 ~32:16/09/2022

2025/02210 ~ Complete ~54:METHOD FOR PREDICTING CORONARY HEART DISEASE RISK ON BASIS OF WORD SEGMENTATION-WORD VECTOR CONVERSION-BINARY CLASSIFICATION ~71:UNIVERSITY OF SHANGHAI FOR SCIENCE AND TECHNOLOGY, No.516 Jungong Road Yangpu District, Shanghai, 200093, People's Republic of China ~72: FAN, Chongjun;LIU, Hong;LU, Yifei;XIONG, Honglin~

- APPLIED ON 2025/03/13 -

2025/02232 ~ Provisional ~54:A SYSTEM AND METHOD FOR A PRIVATE SECTOR-LED SOCIAL WEALTH FUND UTILIZING AI-DRIVEN MARKET ANALYSIS AND AUTOMATED DECISION-MAKING FOR ECONOMIC INCLUSION AND SUSTAINABLE GROWTH ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/02238 ~ Complete ~54:INTELLIGENT DISPLAY STAND FOR ANALYZING MATHEMATICAL PROBLEMS ~71:Henan University of Urban Construction, No. 1, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: ZHOU Shuke~

2025/02242 ~ Complete ~54:TRACKING METHOD AND DEVICE ~71:Rouxcel Technology (Pty) Ltd, 17 Quantum Street, Techno Park, South Africa ~72: LE ROUX, Solomon Petrus~ 33:ZA ~31:2024/03869 ~32:20/05/2024

2025/02243 ~ Complete ~54:ELECTRONIC VAPING DEVICE AND COMPONENTS THEREOF ~71:ALTRIA CLIENT SERVICES LLC, 6601 West Broad Street, Richmond, Virginia, 23230, United States of America ~72: PETER LIPOWICZ~ 33:US ~31:62/064,065 ~32:15/10/2014

2025/02252 ~ Complete ~54:NETWORK MANAGEMENT METHOD, APPARATUS, AND SYSTEM FOR SMART MANHOLE COVER TERMINAL ~71:UNDERGROUND SPACE TECHNOLOGY DEVELOPMENT CO, LTD.OF CNACG, No. 216, Shenzhou 4th Road, Aerospace Base, Xi'an, Shaanxi, 710100, People's Republic of China ~72: CHENG, Danyi;MA, Tianchi;SHI, Wei;XU, Han;XU, Xinyu~ 33:CN ~31:202410772242.6 ~32:17/06/2024

2025/02253 ~ Complete ~54:MODIFIED INFLUENZA B VIRUS HEMAGGLUTININ ~71:ARAMIS BIOTECHNOLOGIES INC., 2552 BOULEVARD DU PARC-TECHNOLOGIQUE, QUÉBEC CITY, QUÉBEC, G1P 4S6, CANADA, Canada ~72: LAVOIE, Pierre-Olivier;LORIN, Aurelien~

2025/02258 ~ Complete ~54:METHOD FOR MONITORING RAILWAY POINTS AND POINTS MACHINE ~71:iNDTact GmbH, Friedrich-Bergius-Ring 15, WÜRZBURG 97076, GERMANY, Germany;voestalpine Signaling Austria GmbH, Alpinestraße 1, ZELTWEG 8740, AUSTRIA, Austria ~72: BERNERSTÄTTER, Robert;LAUNER, Clemens;PETRIČEVIĆ, Raino~ 33:EP ~31:22020451.5 ~32:20/09/2022

2025/02259 ~ Complete ~54:DECODER AND DECODING METHOD FOR DISCONTINUOUS TRANSMISSION OF PARAMETRICALLY CODED INDEPENDENT STREAMS WITH METADATA ~71:Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e. V., Hansastraße 27c, MÜNCHEN 80686, GERMANY, Germany ~72:

BAYER, Stefan;DÖHLA, Stefan;EICHENSEER, Andrea;FUCHS, Guillaume;KIENE, Jan Frederik;KORSE, Srikanth;MULTRUS, Markus;SAGNOWSKI, Kacper~ 33:IB ~31:2022/075151 ~32:09/09/2022

2025/02266 ~ Complete ~54:NECK FOR CONTAINERS AND CLOSING SYSTEM FOR CONTAINERS ~71:SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA, Via Selice Provinciale 17/A, 40026, Imola (Bologna), Italy ~72: FABRIZIO PUCCI;FIORENZO PARRINELLO;GIOVANNI MAZZOTTI~ 33:IT ~31:102022000020904 ~32:11/10/2022

2025/02250 ~ Complete ~54:CARBON PARTICLES AND METHOD FOR THEIR MANUFACTURE ~71:SUPERIOR GRAPHITE CO., 550 W. Van Buren St., Suite 300, United States of America ~72: HENRY, François;KÖSTER, Sören~ 33:US ~31:63/406,932 ~32:15/09/2022

2025/02255 ~ Complete ~54:CGRP RECEPTOR ANTAGONISTS FOR TREATING CHEMOTHERAPY-INDUCED NAUSEA AND VOMITING (CINV) ~71:CHIARUGI, Alberto, Via di Serpiolle 5, FIRENZE 50141, ITALY, Italy ~72: CHIARUGI, Alberto~ 33:IT ~31:102022000018768 ~32:14/09/2022

2025/02265 ~ Complete ~54:INCORPORATING CLINICAL RISK INTO BIOMARKER-BASED ASSESSMENT FOR CANCER PRE-SCREENING ~71:DELFI DIAGNOSTICS, INC., 2809 Boston Street, Suite 503, Baltimore, Maryland, 21224, United States of America ~72: CARTER PORTWOOD;DEBBIE M JAKUBOWSKI;NITI TRIVEDI;PETER B BACH~ 33:US ~31:63/414,370 ~32:07/10/2022

2025/02240 ~ Complete ~54:RAPID DETECTION DEVICE FOR MOLECULAR MARKERS IN MOLECULAR BREEDING ~71:Shandong Agriculture And Engineering University, 866 Nongganyuan Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: LIU Jin;SUN Xiaoming;YANG Yaling~

2025/02247 ~ Complete ~54:SALINE-ALKALI SOIL COTTON SOWING, SEEDLING EMERGENCE AND SEEDLING PROTECTION METHOD BASED ON MOISTURE REGULATION AND TEMPERATURE INCREASE ~71:SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, No.202 Gongye North Road, Jinan City, People's Republic of China ~72: Dongmei ZHANG;Hezhong DONG;Jianlong DAI;Lijie ZHAN;Lin SUN;Shizhen XU;Yanjun ZHANG;Zhengpeng CUI~

2025/02249 ~ Complete ~54:CRICKET BOWLING APPARATUS ~71:BALLISTO CRICKET LTD, 41 Canaan Lane, Edinburgh, United Kingdom ~72: CARLING, Brian~ 33:GB ~31:2318142.3 ~32:28/11/2023

2025/02254 ~ Complete ~54:MODULATORS OF NAUSEA AND VOMITING ~71:CHIARUGI, Alberto, Via di Serpiolle 5, FIRENZE 50141, ITALY, Italy ~72: CHIARUGI, Alberto~ 33:IT ~31:102022000018780 ~32:14/09/2022

2025/02262 ~ Complete ~54:METHOD FOR PRODUCING A CLOSURE ELEMENT FOR A CONTAINER, AND A CLOSURE ARRANGEMENT ~71:Ardagh Metal Packaging Europe GmbH, Grafenauweg 4, ZUG 6300, SWITZERLAND, Switzerland ~72: JÖBGES, Udo;PAWELLA, Frank;RIECK, Hajo~ 33:DE ~31:10 2022 123 526.2 ~32:14/09/2022

2025/02234 ~ Provisional ~54:FLOATING BARRIER ~71:COCHRANE STEEL PRODUCTS (PTY) LTD, 125 Fitter Road, Spartan, South Africa ~72: TBA~

2025/02239 ~ Complete ~54:METHOD FOR RAPID IDENTIFICATION OF QINAN AQUILARIA SINENSIS AND COMMON AQUILARIA SINENSIS BASED ON SEEDLING LEAF PHENOTYPES ~71:Research Institute of Tropical Forestry, Chinese Academy of Forestry, No. 682 Guangshan 1st Road, Tianhe District, Guangzhou City, Guangdong Province, 510520, People's Republic of China ~72: CUI, Zhiyi;LIU, Xiaojin;XU, Daping~

2025/02246 ~ Complete ~54:TENSIONING DEVICE ~71:MICWAY PRODUCTS CC, 43 Newlands Avenue, South Africa ~72: VAN DER LINDE, Calvin William~

2025/02261 ~ Complete ~54:BLUETOOTH TRANSMISSION FROM A SATELLITE TO A GROUND TELECOMMUNICATION TERMINAL ~71:Centre National de la Recherche Scientifique, 3 rue Michel Ange, PARIS 75016, FRANCE, France;Cymoon, 7 rue Paul Painlevé, TOULOUSE 31300, FRANCE, France;Institut Polytechnique de Bordeaux, 1 rue du Docteur Albert Schweitzer, TALENCE 33400, FRANCE, France;Universite de Bordeaux, 35 Place Pey Berland, BORDEAUX 33000, FRANCE, France ~72: FERRE, Guillaume;LATTES, Philippe~ 33:FR ~31:2209237 ~32:14/09/2022

2025/02235 ~ 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;RADEMEYER, Daniel Barend~

2025/02260 ~ Complete ~54:HIGH EFFICIENCY PLATINUM ELECTROPLATING SOLUTIONS ~71:Johnson Matthey Public Limited Company, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: BOARDMAN, Alan~ 33:GB ~31:2217304.1 ~32:18/11/2022

2025/02263 ~ Complete ~54:2-SUBSTITUTED PIPERIDINE DERIVATIVES, PREPARATION METHODS AND MEDICINAL USES THEREOF ~71:HANSOH BIO LLC, Hansoh Bio, 9900 Medical Center Drive, Ste 200, Rockville, Maryland, 20850, United States of America;JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China;SHANGHAI HANSOH BIOMEDICAL CO., LTD., Building 11, No. 3728 Jinke Road, (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai, 201203, People's Republic of China ~72: AVINASH KHANNA;HUGH Y ZHU;MATTHEW KIER~ 33:US ~31:63/375,224 ~32:10/09/2022

2025/02236 ~ Provisional ~54:ENHANCED CRYO-NANO-DISPERSION SYSTEM WITH OPTIONAL HIGH-PRESSURE PRE-PROCESSING FOR EXTRACTING BIOACTIVE COMPOUNDS FROM SEAWEED ~71:Grant Marcus Rutenberg, 1 Restio Close, Lake Michelle, Noordhoek, Cape Town, Western Province, 7975, South Africa ~72: Grant Marcus Rutenberg~

2025/02256 ~ Complete ~54:PH-DEPENDENT ANTI-CD3 ANTIBODIES AND METHODS RELATING THERETO ~71:Adimab, LLC, 7 Lucent Drive, LEBANON 03766, NH, USA, United States of America ~72: BATTLES, Michael Benjamin;WIDBOOM, Paul~ 33:US ~31:63/417,118 ~32:18/10/2022

2025/02268 ~ Complete ~54:A VISUALIZED ENDOTRACHEAL TUBE STRUCTURE WITH A SLIDING OROPHARYNGEAL AIRWAY ~71:THE FIRST AFFILIATED HOSPITAL OF GUANGDONG PHARMACEUTICAL UNIVERSITY, No.19 Nonglinxia Road, Yuexiu District, Guangzhou, People's Republic of China ~72: WEI, Huanjie;WU, Junjian;XING, Qiuyun;YU, Xiexin;ZHANG, Fan~

2025/02233 ~ Provisional ~54:CRYO-NANO-DISPERSION SYSTEM FOR EXTRACTING BIOACTIVE COMPOUNDS FROM SEAWEED ~71:Grant Marcus Rutenberg, 1 Restio Close, Lake Michelle, Noordhoek, Cape Town, Western Province, 7975, South Africa ~72: Grant Marcus Rutenberg~

2025/02237 ~ Complete ~54:METHOD AND APPARATUS FOR ESTIMATING THREE-DIMENSIONAL DEFORMATION IN SURFACES OF MINING SUBSIDENCES, DEVICE, MEDIUM, AND PRODUCT ~71:Coal Geological Geophysical Exploration Surveying And Mapping Institute of Shanxi Province, No. 380 Yingbin West Street, Huitong Industrial Park, Jinzhong Development Zone, Shanxi Demonstration Zone, Jinzhong City, Shanxi Province, 030621, People's Republic of China;Kunming University of Science and Technology, No. 68 Wenchang Road, 121 Street, Kunming City, Yunnan Province, 650500, People's Republic of China ~72: LIU, Enze;QIAN,

Weiheng;SHI, Mengyao;WANG, Wenwen;WANG, Yuhong;XUN, Zhangyuan;ZHANG, Fan;ZHANG, Wenkai;ZHENG, Yueze;ZUO, Xiaoqing~ 33:CN ~31:202510121024.0 ~32:24/01/2025

2025/02241 ~ Complete ~54:EFFICIENT RECOVERY METHOD OF COPPER FROM SULFATED ROASTING ACID LEACHING RESIDUE OF CHALCOCITE COPPER CONCENTRATE ~71:Kunming University of Science and Technology, No.68 Wenchang Road, 121 Street, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: GAO Hulin;HAO Jiamei;LI Da;LIU Dianwen;LIU Jian;WEN Shuming;XIONG Hao;YU Yunlong~ 33:CN ~31:2025101953455 ~32:21/02/2025

2025/02245 ~ Complete ~54:SYSTEM FOR STABILISING SELF-PROPELLED OPERATING MACHINES ~71:MANITOU ITALIA S.R.L., Via Cristoforo Colombo 2, Castelfranco Emilia (Modena), 41013, Italy ~72: MARCO IOTTI~ 33:IT ~31:102024000006070 ~32:19/03/2024

2025/02251 ~ Complete ~54:PHYSICAL FORMS OF AN INHIBITOR OF PRC2 ~71:ORIC PHARMACEUTICALS, INC., 240 E. Grand Avenue, 2nd Floor, United States of America ~72: AL-SAYAH, Mohammad;MILBURN, Robert Ronald~ 33:US ~31:63/375,582 ~32:14/09/2022

2025/02257 ~ Complete ~54:ALKYLAMINE-CONTAINING SMALL MOLECULE DEGRADERS OF BCL6 ~71:Dana-Farber Cancer Institute, Inc., 450 Brookline Avenue, BOSTON 02215, MA, USA, United States of America ~72: CHE, Jianwei;CRUITE, Justin;HUANG, Huang;JONES, Lyn Howard;KONG, Nikki;LIU, Yingpeng;ZHANG, Tinghu~ 33:US ~31:63/416,736 ~32:17/10/2022

2025/02231 ~ Provisional ~54:LIQUID LEVEL METERING USING INDUCTIVE TECHNOLOGY ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Francois;BRUWER, Frederick Johannes;BRUWER, Frederick Johannes Jnr.~

2025/02244 ~ Complete ~54:STABILISING SYSTEM FOR SELF-PROPELLED OPERATING MACHINES ~71:MANITOU ITALIA S.R.L., Via Cristoforo Colombo 2, Castelfranco Emilia (Modena), 41013, Italy ~72: MARCO IOTTI~ 33:IT ~31:102024000006097 ~32:19/03/2024

2025/02267 ~ Complete ~54:LIQUID PHARMACEUTICAL FORMULATIONS OF LOOP DIURETICS AND METHODS OF ADMINISTERING THE SAME ~71:SCPHARMACEUTICALS INC., 2400 District Avenue, Suite 310, United States of America ~72: HASSMAN, Michael;MOHR, John F.;OGUNLEYE, Olatokumbo Olajimi Luca;PECORELLI, Erik Mark;VANDIVER, Jennifer~ 33:US ~31:63/376,157 ~32:19/09/2022

2025/02264 ~ Complete ~54:TET-ASSISTED PYRIDINE BORANE SEQUENCING ~71:EXACT SCIENCES INNOVATION LTD., The Sherard Bldg., Edmund Hally Rd, Littlemore, Oxford, QX4 4DG, United Kingdom ~72: ABRAM VACCARO;BRONWEN MILLER;CHUNXIAO SONG;LUCA TOSTI;ROSEMARY WILSON;SARAH WALSH~ 33:US ~31:63/413,069 ~32:04/10/2022;33:US ~31:63/460,364 ~32:19/04/2023

2025/02434 ~ Provisional ~54:RURAL LAND REGISTRY ~71:Lotlhaka Holdings(PTY)LTD, P.O.Box 6437, South Africa ~72: Kgotso Maragelo~ 33:ZA ~31:1 ~32:05/03/2025

- APPLIED ON 2025/03/14 -

2025/02287 ~ Complete ~54:LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E Herikerbergweg 1-35, 1101 CN, Amsterdam Zuidoost, Netherlands ~72: ALEXANDER KRUEGER;SVEN KORDON~ 33:EP ~31:15306589.1 ~32:08/10/2015;33:EP ~31:15306653.5 ~32:15/10/2015;33:US ~31:62/361,416 ~32:12/07/2016;33:US ~31:62/361,461 ~32:12/07/2016

2025/02294 ~ Complete ~54:A SYSTEM FOR, AND A METHOD OF DEVELOPING A BRANDING STRATEGY
~71:BARADIEN, Mogamat Salie, 17 Mathew Road, Claremont, South Africa;BARADIEN, Mogamat Salie, 17
Mathew Road, Claremont, South Africa ~72: BARADIEN, Mogamat Salie~ 33:ZA ~31:2024/01186
~32:07/02/2024

2025/02298 ~ Complete ~54:PREPARATION OF HIGH SPECIFIC ACTIVITY PT ISOTOPES FROM IR ALLOYS
~71:STICHTING NUCLEAR RESEARCH AND CONSULTANCY GROUP, Westerduinweg 3 32, Netherlands ~72:
BAKKER, Klaas;BOOIJ, Arend;CODÉE-VAN DER SCHILDEN, Karlijn;DE GROOT, Sander~ 33:EP
~31:22195397.9 ~32:13/09/2022

2025/02303 ~ Complete ~54:DIAGNOSTIC TESTING APPARATUS AND SYSTEM ~71:RAPID VIRAL
DETECTION SYSTEMS LLC, 8600 COMMODITY CIRCLE, SUITE 162, ORLANDO, FLORIDA 32819, USA,
United States of America ~72: KENEFICK, William, S.;LEVENTHAL, Ronald, H.;VALLABHANENI, Ramesh,
Babu~ 33:US ~31:63/402,746 ~32:31/08/2022

2025/02309 ~ Complete ~54:ACTIVE INGREDIENT COMBINATIONS FROM ALKYLAMIDOTHIAZOLES AND
ONE OR MORE BIOPOLYMERS ~71:Beiersdorf AG, Beiersdorfstrasse 1 - 9, HAMBURG 22529, GERMANY,
Germany ~72: HANSSON, Sylke;MEIRING, Uta;MEYER, Melina;PLEHN, Caroline;STUHR, Aylin~ 33:DE
~31:10 2022 209 937.0 ~32:21/09/2022

2025/02315 ~ Complete ~54:SOLAR-THERMAL MODULE ~71:HUECK SOLAR ENERGY GMBH, Bergstraße 86,
Germany ~72: HILLEKE, Robert;HUECK, Ulrich~ 33:DE ~31:10 2022 209 642.8 ~32:14/09/2022

2025/02280 ~ Complete ~54:VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND
DECODING AND VIDEO DATA STREAM FOR REALIZING ADVANCED VIDEO CODING CONCEPTS
~71:DOLBY VIDEO COMPRESSION, LLC., 251 LITTLE FALLS DRIVE, WILMINGTON, DELAWARE 19808,
USA, United States of America ~72: HELLGE, Cornelius;SCHIERL, Thomas;SKUPIN, Robert;SÁNCHEZ DE LA
FUENTE, Yago;SÜHRING, Karsten;WIEGAND, Thomas~ 33:EP ~31:20176178.0 ~32:22/05/2020;33:EP
~31:20176206.9 ~32:22/05/2020

2025/02283 ~ Complete ~54:VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND
DECODING AND VIDEO DATA STREAM FOR REALIZING ADVANCED VIDEO CODING CONCEPTS
~71:DOLBY VIDEO COMPRESSION, LLC., 251 LITTLE FALLS DRIVE, WILMINGTON, DELAWARE 19808,
USA, United States of America ~72: HELLGE, Cornelius;SCHIERL, Thomas;SKUPIN, Robert;SÁNCHEZ DE LA
FUENTE, Yago;SÜHRING, Karsten;WIEGAND, Thomas~ 33:EP ~31:20176178.0 ~32:22/05/2020;33:EP
~31:20176206.9 ~32:22/05/2020

2025/02296 ~ Complete ~54:PEROXIDASE COMPOSITIONS CONTAINING IMPROVED ENHANCING AGENTS
~71:FLEN HEALTH PHARMA NV, Blauwesteenstraat 87, Belgium ~72: BRACKMAN, Gilles;SOLLIE,
Philippe;TORFS, Eveline;VAN DEN EYNDE, Youtha~ 33:EP ~31:22207660.6 ~32:16/11/2022

2025/02302 ~ Complete ~54:TRKA (G667C) AND FLT3 TARGET INHIBITOR AND COMBINATION OF SAME
WITH CHIDAMIDE ~71:SHENZHEN CHIPSCREEN BIOSCIENCES CO., LTD., 21F-24F, Building B, Zhigu
Industrial Park, Shuguang Community, Xili Street, Nanshan District, People's Republic of China ~72: LI,
Zhibin;LU, Xianping;SHAN, Song;YANG, Qianjiao;ZHOU, You~ 33:CN ~31:202211051615.8 ~32:30/08/2022

2025/02269 ~ Complete ~54:BIONIC PERIODONTAL BONE DEFECT SIMULATION AND REPAIR
INTEGRATED DEVICE ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, BUILDING 30, PHASE II
OF EVERGRANDE OASIS, TIANJIA'AN DISTRICT, HUAINAN CITY,, People's Republic of China ~72: LI, Hui~

2025/02270 ~ Complete ~54:OUTDOOR REMOTE SENSING MULTIFUNCTIONAL SURVEYING AND MAPPING DEVICE ~71:JINGGANGSHAN UNIVERSITY, NO. 28 XUEYUAN ROAD, QINGYUAN DISTRICT, JI'AN CITY, People's Republic of China ~72: LI, Weihua~

2025/02313 ~ Complete ~54:METHOD AND SYSTEM FOR EXTRACTING BLACK MASS FROM SPENT LITHIUM ION BATTERIES ~71:AGR Lithium Inc., 2700 Post Oak Blvd, Suite #2100, HOUSTON 77056, TX, USA, United States of America ~72: CHADHA, Nishchay;NAIK, Amol;TYAGI, Vipin~ 33:US ~31:63/407,265 ~32:16/09/2022

2025/02275 ~ Complete ~54:VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND DECODING AND VIDEO DATA STREAM FOR REALIZING ADVANCED VIDEO CODING CONCEPTS ~71:DOLBY VIDEO COMPRESSION, LLC., 251 LITTLE FALLS DRIVE, WILMINGTON, DELAWARE 19808, USA, United States of America ~72: HELLGE, Cornelius;SCHIERL, Thomas;SKUPIN, Robert;SÁNCHEZ DE LA FUENTE, Yago;SÜHRING, Karsten;WIEGAND, Thomas~ 33:EP ~31:20176178.0 ~32:22/05/2020;33:EP ~31:20176206.9 ~32:22/05/2020

2025/02277 ~ Complete ~54:VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND DECODING AND VIDEO DATA STREAM FOR REALIZING ADVANCED VIDEO CODING CONCEPTS ~71:DOLBY VIDEO COMPRESSION, LLC., 251 LITTLE FALLS DRIVE, WILMINGTON, DELAWARE 19808, USA, United States of America ~72: HELLGE, Cornelius;SCHIERL, Thomas;SKUPIN, Robert;SÁNCHEZ DE LA FUENTE, Yago;SÜHRING, Karsten;WIEGAND, Thomas~ 33:EP ~31:20176178.0 ~32:22/05/2020;33:EP ~31:20176206.9 ~32:22/05/2020

2025/02286 ~ Complete ~54:LEG FIXATION DEVICE ~71:QINGFENG COUNTY TRADITIONAL CHINESE MEDICINE HOSPITAL, NO. 100 CHAOYANG ROAD, QINGFENG COUNTY, PUYANG CITY, People's Republic of China ~72: GUAN, Wenju~ 33:CN ~31:2024111355773 ~32:19/08/2024

2025/02288 ~ Complete ~54:SIT-UP TRAINING DEVICE FOR SPORTS ~71:EAST CHINA NORMAL UNIVERSITY, NO. 500, DONGCHUAN ROAD, MINHANG DISTRICT, People's Republic of China ~72: YANG, Xinrui~

2025/02297 ~ Complete ~54:A COMPOSITION COMPRISING BLOOD PLASMA AND IMMUNOGLOBULINS FOR USE IN THE TREATMENT OR PREVENTION OF AN INFECTIOUS DISEASE ~71:ONDERZOEKS- EN ONTWIKKELINGSFONDS RODE KRUIS-VLAANDEREN, Motstraat 40, Belgium ~72: COMPERNOLLE, Veerle;FEYS, Hendrik;VANDEKERCKHOVE, Philippe~ 33:EP ~31:22199947.7 ~32:06/10/2022

2025/02307 ~ Complete ~54:METHODS AND SYSTEMS FOR SENDING COMMUNICATIONS ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: CHEAH, Soon-Ee;SIEW, Jiun~ 33:AU ~31:2022902661 ~32:14/09/2022

2025/02314 ~ Complete ~54:AAV EVOLUTION AT SINGLE-CELL RESOLUTION USING SPLIT-SEQ ~71:THE CHILDREN'S HOSPITAL OF PHILADELPHIA, 3401 Civic Center Boulevard, United States of America ~72: CHEN, Yonghong;DAVIDSON, Beverly;RANUM, Paul;ROBBINS, Ashley~ 33:US ~31:63/407,826 ~32:19/09/2022

2025/02278 ~ Complete ~54:VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND DECODING AND VIDEO DATA STREAM FOR REALIZING ADVANCED VIDEO CODING CONCEPTS ~71:DOLBY VIDEO COMPRESSION, LLC., 251 LITTLE FALLS DRIVE, WILMINGTON, DELAWARE 19808, USA, United States of America ~72: HELLGE, Cornelius;SCHIERL, Thomas;SKUPIN, Robert;SÁNCHEZ DE LA FUENTE, Yago;SÜHRING, Karsten;WIEGAND, Thomas~ 33:EP ~31:20176178.0 ~32:22/05/2020;33:EP ~31:20176206.9 ~32:22/05/2020

2025/02282 ~ Complete ~54:VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND DECODING AND VIDEO DATA STREAM FOR REALIZING ADVANCED VIDEO CODING CONCEPTS ~71:DOLBY VIDEO COMPRESSION, LLC., 251 LITTLE FALLS DRIVE, WILMINGTON, DELAWARE 19808, USA, United States of America ~72: HELLGE, Cornelius;SCHIERL, Thomas;SKUPIN, Robert;SÁNCHEZ DE LA FUENTE, Yago;SÜHRING, Karsten;WIEGAND, Thomas~ 33:EP ~31:20176178.0 ~32:22/05/2020;33:EP ~31:20176206.9 ~32:22/05/2020

2025/02284 ~ Complete ~54:ELECTRONIC MECHANICAL COMPONENT WELDING EQUIPMENT ~71:CHUZHOU UNIVERSITY, NO. 1 HUIFENG WEST ROAD, CHUZHOU CITY, People's Republic of China ~72: LI, Lei~

2025/02304 ~ Complete ~54:ARYLTETRAHYDROPYRIDINE COMPOUND AND PESTICIDES ~71:NISSAN CHEMICAL CORPORATION, 5-1, Nihonbashi 2-chome, Chuo-ku, Tokyo, 1036119, Japan ~72: CHISATO KOBAYASHI;KEISUKE TSUJI;YASUNORI MIZOYAMA;YUKI TAJIMA~ 33:JP ~31:2022-139441 ~32:01/09/2022;33:JP ~31:2022-185884 ~32:21/11/2022;33:JP ~31:2023-002272 ~32:11/01/2023;33:JP ~31:2023-049089 ~32:24/03/2023;33:JP ~31:2023-108955 ~32:30/06/2023

2025/02312 ~ Complete ~54:ANTI-HUMAN LAIR1 ANTIBODIES ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America;TRex Bio, Inc., 681 Gateway Blvd., 4th Floor, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: AYALA RAMIREZ, Maria Elena;DAVIES, Julian;FELDMAN, Reid Martin Renny;KHAN, Shireen Syrah;MACAL, Monica;POTTER, Scott Charles;VENDEL, Andrew Charles;WANG, Wei~ 33:US ~31:63/375,936 ~32:16/09/2022

2025/02276 ~ Complete ~54:VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND DECODING AND VIDEO DATA STREAM FOR REALIZING ADVANCED VIDEO CODING CONCEPTS ~71:DOLBY VIDEO COMPRESSION, LLC., 251 LITTLE FALLS DRIVE, WILMINGTON, DELAWARE 19808, USA, United States of America ~72: HELLGE, Cornelius;SCHIERL, Thomas;SKUPIN, Robert;SÁNCHEZ DE LA FUENTE, Yago;SÜHRING, Karsten;WIEGAND, Thomas~ 33:EP ~31:20176178.0 ~32:22/05/2020;33:EP ~31:20176206.9 ~32:22/05/2020

2025/02281 ~ Complete ~54:VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND DECODING AND VIDEO DATA STREAM FOR REALIZING ADVANCED VIDEO CODING CONCEPTS ~71:DOLBY VIDEO COMPRESSION, LLC., 251 LITTLE FALLS DRIVE, WILMINGTON, DELAWARE 19808, USA, United States of America ~72: HELLGE, Cornelius;SCHIERL, Thomas;SKUPIN, Robert;SÁNCHEZ DE LA FUENTE, Yago;SÜHRING, Karsten;WIEGAND, Thomas~ 33:EP ~31:20176178.0 ~32:22/05/2020;33:EP ~31:20176206.9 ~32:22/05/2020

2025/02291 ~ Complete ~54:SCENE CHANGE DETECTION METHOD ~71:Weijing Tianxia (Beijing) Technology Co., Ltd., Room A-04, 8th Floor, No. 89, North West Third Ring Road, Haidian District, Beijing, 100089, People's Republic of China ~72: Cheng Xiuchao;Ning Yongqiang;Wu Lei~

2025/02295 ~ Complete ~54:GENETICALLY MODIFIED NON-HUMAN ANIMALS AND METHODS FOR PRODUCING HEAVY-CHAIN ANTIBODIES ~71:BIOCYTOGEN PHARMACEUTICALS (BEIJING) CO., LTD., No.12, Baoshen South Street, Daxing Bio-Medicine Industry Park, People's Republic of China ~72: HU, Yiqing;SHEN, Yuele;YAO, Jiawei;ZHANG, Lijun;ZHANG, Qi;ZHANG, Yabo;ZHAO, Huizhen~ 33:CN ~31:PCT/CN2022/119188 ~32:16/09/2022;33:CN ~31:PCT/CN2022/136246 ~32:02/12/2022

2025/02301 ~ Complete ~54:PROTECTION DEVICE FOR SINGLE-CHIP MICROCOMPUTER IN ELECTRICAL EQUIPMENT ~71:JINLING INSTITUTE OF TECHNOLOGY, No.99 Hongjing Avenue, Jiangning District, Nanjing, Jiangsu, 211169, People's Republic of China;NANJING VOCATIONAL COLLEGE OF INFORMATION TECHNOLOGY, No.99, Wenlan Road, Xianlin University Town, Nanjing, Jiangsu, 210023, People's Republic of

China;TAIYUAN POWER SUPPLY COMPANY OF STATE GRID SHANXI ELECTRIC POWER COMPANY, No.71 Fudong Street, Xinghualing District, Taiyuan, Shanxi, 030001, People's Republic of China;TIANJIN UNIVERSITY OF SCIENCE AND TECHNOLOGY, No.1038 Dagu South Road Hexi District, Tianjin, 300457, People's Republic of China ~72: Baohong FENG;Ben WANG;Dawei WANG;Fan CHEN;Gang SUN;Jiming YU;Wei YAO;Yiyang ZHANG;Zhenfei GU~ 33:CN ~31:202411368544.3 ~32:29/09/2024

2025/02311 ~ Complete ~54:R-TRIHENYDYL FOR TREATMENT OF MOVEMENT DISORDERS ~71:The Children's Mercy Hospital, 2401 Gillham Road, KANSAS CITY 64108, MO, USA, United States of America ~72: GELINEAU-MOREL, Rose;LEEDER, James Steven;TOREN, Paul C.~ 33:US ~31:63/407,219 ~32:16/09/2022

2025/02300 ~ Complete ~54:COMPOSITIONS AND METHODS FOR SOLVENT EXTRACTION ~71:LOCUS SOLUTIONS IPCO, LLC, 30600 Aurora Road, Suite 180, United States of America ~72: KNESEL, Gabriela~ 33:US ~31:63/405,548 ~32:12/09/2022

2025/02271 ~ Complete ~54:MOBILE DATA COLLECTION DEVICE FOR USE WITH INTELLIGENT RECOGNITION AND ALERT METHODS AND SYSTEMS ~71:AI CONCEPTS, LLC, 121 Greenway Boulevard, Carrollton, Georgia, United States of America ~72: SAMPLES, Johnathan~ 33:US ~31:18/607,900 ~32:18/03/2024

2025/02290 ~ Complete ~54:PROCESSING METHOD FOR COMPREHENSIVELY UTILIZING APPLES WITH HIGH ADDED VALUE ~71:Shaanxi Institute of Microbiology, No.76, Xiyang Road, Yanta District, Xi'an City, Shaanxi Province, People's Republic of China ~72: WANG Hanping;WANG Yan~

2025/02292 ~ Complete ~54:CHINESE MEDICINAL COMPOSITION FOR TONIFYING THE SPLEEN AND BENEFITING THE STOMACH AND ITS PREPARATION METHOD ~71:Shaanxi Institute of Microbiology, No.76, Xiyang Road, Yanta District, Xi'an City, Shaanxi Province, People's Republic of China ~72: WANG Hanping;WANG Yan~

2025/02272 ~ Complete ~54:METHOD FOR RAPID IDENTIFICATION OF QINAN AQUILARIA SINENSIS AND COMMON AQUILARIA SINENSIS BASED ON SEEDLING TISSUE DISSECTION ~71:Research Institute of Tropical Forestry,Chinese Academy of Forestry, No. 682 Guangshan 1st Road, Tianhe District, Guangzhou City, Guangdong Province, 510520, People's Republic of China ~72: CUI, Zhiyi;LIU, Xiaojin;XU, Daping;ZHANG, Qilei;ZHU, Lingjuan~

2025/02279 ~ Complete ~54:VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND DECODING AND VIDEO DATA STREAM FOR REALIZING ADVANCED VIDEO CODING CONCEPTS ~71:DOLBY VIDEO COMPRESSION, LLC., 251 LITTLE FALLS DRIVE, WILMINGTON, DELAWARE 19808, USA, United States of America ~72: HELLGE, Cornelius;SCHIERL, Thomas;SKUPIN, Robert;SÁNCHEZ DE LA FUENTE, Yago;SÜHRING, Karsten;WIEGAND, Thomas~ 33:EP ~31:20176178.0 ~32:22/05/2020;33:EP ~31:20176206.9 ~32:22/05/2020

2025/02285 ~ Complete ~54:AUXILIARY EYE DROPPING EQUIPMENT ~71:YANSHI PEOPLE'S HOSPITAL OF LUOYANG CITY, NO. 2 SHANGCHENG EAST ROAD, YANSHI DISTRICT, LUOYANG CITY, People's Republic of China ~72: LIU, Zhengguo~ 33:CN ~31:2024106392908 ~32:22/05/2024

2025/02289 ~ Complete ~54:METHOD FOR PREPARING EU-SB-NB FE SITE CO-DOPED AND N-DOPED C COATED MODIFIED REGENERATED WASTE FERROUS LITHIUM PHOSPHATE CATHODE MATERIAL ~71:Kunming University of Science and Technology, No. 68 Wenchang Road, 121 Street, Kunming City, Yunnan Province, People's Republic of China ~72: DONG Peng;FAN Yi;LI Yuyun;MENG Qi;SU Yongyou~

2025/02293 ~ Complete ~54:SEMANTIC REPRESENTATION-BASED AUXILIARY DIAGNOSTIC SYSTEM FOR DEPRESSIVE DISORDER ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: FAN, Yongfeng;FENG, Qiaojuan;GUO, Shuaiqi;HE, Liran;LI, Zhong;LIU, Lian;MA, Jianyu;MENG, Qingjian;SHEN, Yunqin;SHI, Chunlei;SONG, Hongyun;SU, Jingfeng;WEI, Xinhong;XUE, Bing;YU, Jian;ZHANG, Fangfang;ZHANG, Fengyue;ZHANG, Jingpu;ZHANG, Xiangjuan;ZHAO, Junmin;ZHOU, Erqiang~

2025/02299 ~ Complete ~54:COMPOUNDS FOR TARGETED PROTEIN DEGRADATION ~71:AMPHISTA THERAPEUTICS LIMITED, The Cori Building Granta Park, Great Abington, United Kingdom ~72: AMBLER, Martin;BROWN, Giles Albert;FALLAN, Charlene;MCGARRY, David;MEIER, Gregor;OSBORNE, James;TESTA, Andrea~ 33:GB ~31:2213365.6 ~32:13/09/2022;33:GB ~31:2219287.6 ~32:20/12/2022;33:GB ~31:2309103.6 ~32:16/06/2023

2025/02306 ~ Complete ~54:REUSABLE SANITARY AND INCONTINENCE ARTICLE ~71:SEAMPRIINT GMBH & CO. KG, Schulstr. 8a, 82541, Münsing, Germany ~72: INGE SIEBERT;UDO SIEBERT~ 33:EP ~31:PCT/EP2022/075381 ~32:13/09/2022

2025/02308 ~ Complete ~54:BISPECIFIC ANTIBODY ~71:Ono Pharmaceutical Co., Ltd., 1-5, Doshomachi 2-chome, Chuo-ku, OSAKA-SHI 5418526, OSAKA, JAPAN, Japan ~72: ARIMA, Hiroshi;BROCK, Matthias;GUNDE, Tea;HESS, Christian;JOHANSSON, Maria;NAKAMURA, Masatoshi;SAITO, Akina;SHIBAYAMA, Shiro;SIMONIN, Alexandre;SPIGA, Fabio Mario;WARMUTH, Stefan;WEINERT, Christopher~ 33:JP ~31:2022-132264 ~32:23/08/2022

2025/02310 ~ Complete ~54:LANMODULIN ORTHOLOGS WITH IMPROVED RARE EARTH SEPARATION PERFORMANCE ~71:Lawrence Livermore National Security, LLC, 7000 East Avenue, P.O. Box 808, L-703, LIVERMORE 94550, CA, USA, United States of America;The Penn State Research Foundation, 304 Old Main, UNIVERSITY PARK 16802, PA, USA, United States of America ~72: BOAL, Amie Kathleen;CHOI, Wonseok;COTRUVO Jr., Joseph Alfred;DONG, Ziye;JUNG, Jonathan;LIN, Chi-Yun;MATTOCKS, Joseph Anthony;PARK, Dan M.~ 33:US ~31:63/376,060 ~32:16/09/2022;33:US ~31:63/505,052 ~32:30/05/2023

2025/02274 ~ Complete ~54:MOISTURE PROOF STRUCTURE FOR ELECTRICAL AUTOMATION CONTROL CABINET ~71:NANNING COLLEGE OF TECHNOLOGY, NO. 317 YANSHAN STREET, YANSHAN TOWN, YANSHAN DISTRICT, GUILIN CITY, People's Republic of China ~72: YAO, Lei~

2025/02273 ~ Complete ~54:LANDSLIDE MONITORING DEVICE AND METHOD BASED ON MULTI-SYSTEM GNSS REAL-TIME DYNAMIC MONITORING ALGORITHM ~71:SUZHOU UNIVERSITY, Erpu Village, Zhuxianzhuang Town, Yongqiao District, Suzhou City, Anhui Province, 234111, People's Republic of China ~72: GUO, Zhongchen;HU,Ru;JIANG, Chuang;YAO, Liying~

2025/02305 ~ Complete ~54:FLUID SEPARATION SYSTEM AND METHOD ~71:LIGNOSOL IP LIMITED, 4th Floor, Avantech Building, St Julian's Road, San Gwann SGN, 2805, Malta ~72: DESMOND ALEXANDER SOMERVILLE;PATRICK DIETER WAIBEL~ 33:GB ~31:2214123.8 ~32:27/09/2022

- APPLIED ON 2025/03/17 -

2025/02321 ~ Provisional ~54:THE REHABILITATION INSTRUMENT ~71:arthur gert nieklaassen, 09 endeman street, South Africa ~72: arthur gert nieklaassen~

2025/02325 ~ Complete ~54:SMART SEWAGE MANHOLE COVER AND SYSTEM THEREOF ~71:Thulani Khumalo, 520 A Zola 3 Mntungwa Street, Soweto, South Africa ~72: Thulani Khumalo~

2025/02320 ~ Provisional ~54: SUPERCRITICAL CO₂ WASTE HEAT RECOVERY SYSTEM FOR MARINE DIESEL ENGINES ~71: Martin Hempel, Martin Hempel, 138 Villiers Road, South Africa ~72: Martin Hempel~

2025/02329 ~ Complete ~54: A SOIL DETECTION DEVICE AND SOIL DETECTION METHOD ~71: Min jiang University, Xiyuangong Road, Shangjie Town, Minhou County, Fuzhou City, Fujian Province, People's Republic of China ~72: Fang Shimin; Zhao Guoyong~

2025/02335 ~ Complete ~54: THERMAL BARRIER SYSTEM FOR A DOORWAY ~71: SPECIALISED CLIMATE ENGINEERING (PTY) LTD., 120A Buckingham Avenue, CRAIGHALL PARK 2196, Gauteng, SOUTH AFRICA, South Africa ~72: ANDERSEN, John Craig~

2025/02343 ~ Complete ~54: MEAT-CONTAINING PUFFED FOODSTUFF AND PREPARATION METHOD THEREFOR ~71: PEPSICO FOODS (CHINA) COMPANY LIMITED, No. 99 Dongxing Road, Songjiang Industry Zone, People's Republic of China ~72: LI, Tianzhu; LU, Xin; LV, Huanhuan; YANG, Aimin; ZHANG, Lingyu~ 33: CN ~31: 202211281966.8 ~32: 19/10/2022

2025/02318 ~ Provisional ~54: ENHANCED ADAPTIVE CRYO-NANO-DISPERSION SYSTEM WITH OPTIONAL HIGH-PRESSURE PRE-PROCESSING FOR EXTRACTING BIOACTIVE COMPOUNDS FROM SEAWEED ~71: Grant Marcus Rutenberg, 1 Restio Close, Lake Michelle, Noordhoek, Cape Town, Western Province, 7975, South Africa ~72: Grant Marcus Rutenberg~

2025/02327 ~ Complete ~54: INDUSTRIAL WASTE RESIDUE HIGH-ENTROPY DOPED CATHODE MATERIAL AND ITS PREPARATION METHOD AND APPLICATION ~71: Kunming University of Science and Technology, No. 68 Wenchang Road, 121 Street, Kunming City, Yunnan Province, People's Republic of China ~72: DONG Peng; LI Yuyun; MENG Qi; YU Hanjing~

2025/02338 ~ Complete ~54: ANIMAL-PLANT PROTEIN ORGANIC FERTILIZER FOR IMPROVING SOIL MICRO-ECOLOGICAL ENVIRONMENT AND PREPARATION AND USING METHODS THEREOF ~71: INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES, No. 22 Zhaojun Road, Yuquan District, People's Republic of China ~72: A, La Ta; DAI, FangPing; DUAN, Rui; GAO, Jing; GUO, Yun; LI, Xiao Jun; LIU, Fang; LIU, Jun; LIU, Yan; MA, Ai Ling; SHANG, Xue Yan; SHEN, Qiu Yun; SUO, Qing; WANG, Bin; WANG, Deng Yun; WANG, Hui Zhen; WANG, Jing; WANG, Xiao; YAN, Hai Peng; YUAN, Rui Xia~

2025/02342 ~ Complete ~54: COMPOUNDS AND METHODS FOR REDUCING MECP2 EXPRESSION ~71: IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: FREIER, Susan, M.~ 33: US ~31: 63/376,936 ~32: 23/09/2022

2025/02347 ~ Complete ~54: COMBINATION THERAPIES WITH ONCOLYTIC ADENOVIRUS AND TOPOISOMERASE I INHIBITORS OR PRODRUGS THEREOF ~71: Hospital Sant Joan de Déu, Passeig Sant Joan de Déu, 2, ESPLUGUES DE LLOBREGAT 08950, BARCELONA, SPAIN, Spain; Theriva Biologics, S.L., Torrent De Can Ninou, Naves 5-6, PARTES DEL VALLES 08150, BARCELONA, SPAIN, Spain ~72: CARCABOSO, Ángel Montero; CASCALLO PIQUERAS, Manel Maria; CONNELLY, Sheila; MATO BERCIANO, Ana; SANDOVAL, Víctor Burgueño~ 33: US ~31: 63/408,079 ~32: 19/09/2022; 33: US ~31: 63/533,176 ~32: 17/08/2023

2025/02351 ~ Complete ~54: HETEROAROMATIC MACROCYCLIC ETHER CHEMOTHERAPEUTIC AGENTS ~71: NUVALENT, INC., One Broadway, 14th Floor, Cambridge, Massachusetts, 02142, United States of America ~72: ANUPONG TANGPEERACHAIKUL; BAUDOIN GERARD; HENRY EFREM PELISH; JOSHUA COURTNEY HORAN~ 33: US ~31: 63/417,368 ~32: 19/10/2022

2025/02332 ~ Complete ~54:UNIVERSAL EXTERNAL HEPATOBILIARY-PANCREATIC DRAINAGE DEVICE ~71:THE FIRST AFFILIATED HOSPITAL OF GUANGZHOU MEDICAL UNIVERSITY (GUANGZHOU RESPIRATORY CENTER), 151 Yanjiang West Road, Yuexiu District, Guangzhou City, Guangdong Province, 510030, People's Republic of China ~72: WANG, Guoying~

2025/02339 ~ Complete ~54:QUANTUM RADAR EXPERIMENTAL DEVICE BASED ON MICRO-MACRO QUANTUM ENTANGLED STATE ~71:BEIJING INSTITUTE OF TECHNOLOGY, No. 5 Zhongguancun South Street, Haidian District, People's Republic of China ~72: ZHANG, Shengli;ZHANG, Yunuo~

2025/02341 ~ Complete ~54:EFFICIENT MULTI-PITCH CRICKET SYSTEM HAVING SUB-CYLINDRICAL BUFFER DROP-IN SUB-SOIL LAYER WITH ADVERTISING POTENTIAL ~71:PRIYADARSHI, Rakesh, Bhagalpur, 812006, Bihar, India ~72: PRIYADARSHI, Rakesh~ 33:IN ~31:202211010076 ~32:15/08/2022;33:IN ~31:202311051846 ~32:02/08/2023

2025/02349 ~ Complete ~54:PARG INHIBITORY COMPOUND ~71:FORX THERAPEUTICS AG, Lichtstrasse 35, 4056 Basel, Switzerland ~72: ALENA FREUDENMANN;ANDREAS GOUTOPOULOS;JIN TIAN;LUCA IACOVINO;OLIVIER QUEROLLE;SOTIRIOS SOTIRIOU;ULRICH LUECKING~ 33:EP ~31:PCT/EP2022/077470 ~32:03/10/2022

2025/02359 ~ Complete ~54:AUTOMATIC START-STOP SYSTEM AND METHOD FOR SCREEN SEDIMENTATION AND FILTRATION CENTRIFUGES ~71:NINGBO UNIVERSITY OF FINANCE & ECONOMICS, NO. 899, XUEYUAN ROAD, HAISHU DISTRICT, NINGBO CITY, People's Republic of China ~72: CHEN, Jiadian;CHEN, Junke;PAN, Xiaojie;SHAO, Shenglai;WANG, Le;WANG, Zhijun;WU, Chanti;ZHU, Zaisheng~

2025/02360 ~ Complete ~54:A THICKENER UNDERFLOW COARSE COAL SLUDGE RECOVERY SYSTEM ~71:NINGBO UNIVERSITY OF FINANCE & ECONOMICS, NO. 899, XUEYUAN ROAD, HAISHU DISTRICT, NINGBO CITY, People's Republic of China ~72: GU, Tianle;GUAN, Meijing;GUO, Lixiao;WANG, Jing;WU, Chanti;ZHAO, Min;ZHU, Kejin;ZHU, Zaisheng~

2025/02330 ~ Complete ~54:AN OPHTHALMIC MEDICATION DEVICE FOR OPHTHALMIC DEPARTMENTS ~71:QuZhou People's Hospital (The Central Hospital Of Qu Zhou), No. 100, Minjiang Avenue, Kecheng District, Quzhou City, Zhejiang Province, People's Republic of China ~72: Jiang Ligang;Jiang Xin;Lu Wei;Tong Jingjing;Tong Yuhua;Xu Ruixuan;Zhang Meizhen;Zhang Xinyue~

2025/02336 ~ Complete ~54:A BLOCKCHAIN-ENABLED RFID AUTHENTICATION SYSTEM FOR SECURE PATIENT IDENTITY AND ACCESS CONTROL IN HEALTHCARE ENVIRONMENTS, AND A METHOD THEREOF ~71:Dr. Ram Chandra Barik, At- Shiva Vihar, Po- Jyoti Vihar, Near Sambalpur University, District- Sambalpur - 768019, Odisha, India;Mr. Sanjay Kumar Jena, At- Sri Aurobindo Nagar, Plot- 331(P) Po- Chandrasekharapur Bhubaneswar, District- Khurdha – 751016 Odisha, India;Mr. Surendra Kumar Panda, At- Argal, Po- Argal Sasana, Block- Aul, District- Kendrapara - 755061 Odisha, India;Mrs. Milan Samantaray, At- Darkhatpatna, Binayak Vihar, Po- Kalyani Nagar District- Cuttack – 753013 Odisha, India;Mrs. Rasmita Jena, At/Po- Gopalpur, District- Cuttack- 753011 Odisha, India ~72: Dr. Ram Chandra Barik;Mr. Sanjay Kumar Jena;Mr. Surendra Kumar Panda;Mrs. Milan Samantaray;Mrs. Rasmita Jena~

2025/02316 ~ Provisional ~54:AI-POWERED CREDENTIAL VERIFICATION AND AI-DRIVEN SALES ANALYTICS SYSTEM FOR DIGITAL EDUCATION AND PROFESSIONAL CERTIFICATION PLATFORMS ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: Kabelo Diale;Tumelo Sapa Malekane~

2025/02317 ~ Provisional ~54:AI-POWERED CREDENTIAL VERIFICATION AND FRAUD PREVENTION SYSTEM FOR DIGITAL EDUCATION AND WORKFORCE TRAINING ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: Kabelo Diale;Tumelo Sapa Malekane~

2025/02322 ~ Provisional ~54:AN ANTI-JAMMING METHOD AND DEVICE ~71:HARDCORE AUTOMOTIVE LOCKING TECHNOLOGIES (PTY) LTD, c/o Gerhard Lourens Inc, Jolin House, Cnr of Marloth & van der Merwe Street, MBOMBELA 1200, SOUTH AFRICA, South Africa ~72: TALJAARD, Philippus Petrus Erasmus~

2025/02324 ~ Provisional ~54:SMART LOCKER ~71:Athenkosi Nontshinga, 92 Oak Avenue, South Africa ~72: Athenkosi Nontshinga;Athenkosi Raymond Nontshinga~ 33:ZA ~31:N/A ~32:13/03/2025

2025/02331 ~ Complete ~54:LAYERED CHARGING DEVICE FOR SECONDARY ZINC OXIDE PRODUCTION ~71:Chongqing Wanbo Renewable Resources Utilization Co., Ltd., Group 2, Chuanzhu Village, Longtan Town, Youyang County, Chongqing, People's Republic of China ~72: QIN, Zhigang;WANG, Debo;YAO, Chuan~

2025/02333 ~ Complete ~54:VIDEO MONITORING LIGHT SUPPLEMENTING DEVICE FOR A HIGHWAY ~71:Zhejiang Industry & Trade Vocational College, No. 717 Fudong Road, Wenzhou City, Zhejiang Province, People's Republic of China ~72: Gui Kai~

2025/02334 ~ Complete ~54:ANTI-CD94 ANTIBODIES AND METHODS OF USE THEREOF ~71:DREN BIO, INC., 384 Foster City Blvd. Foster City, California 94404, United States of America ~72: NENAD TOMASEVIC;RUO SHI SHI~ 33:US ~31:63/085,932 ~32:30/09/2020;33:US ~31:63/088,926 ~32:07/10/2020

2025/02337 ~ Complete ~54:WORD LEARNING METHOD AND SYSTEM BASED ON SYLLABLE SPELLING AND DIFFICULTY CLASSIFICATION ~71:LI, Qinqian, Block A 435, Building B, Baoneng Zhichuang Valley, Pinghu Street, Longgang District, People's Republic of China ~72: LI, Qinqian~

2025/02346 ~ Complete ~54:FOOD COMPOSITION COMPRISING ONE OR A PLURALITY OF COATED FOOD PARTICLES ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BRÜTSCH, Linda;MEUNIER, Vincent Daniel Maurice;PASCHE, Delphine~ 33:EP ~31:22191957.4 ~32:24/08/2022

2025/02348 ~ Complete ~54:ANTI-CANCER NUCLEAR HORMONE RECEPTOR-TARGETING COMPOUNDS ~71:Nuvation Bio Inc., 1500 Broadway, Ste. 1401, NEW YORK 10036, NY, USA, United States of America ~72: DARWISH, Ihab S.;HUNG, David;MILLER, Christopher Paul~ 33:US ~31:63/377,511 ~32:28/09/2022

2025/02350 ~ Complete ~54:INHIBITORS ~71:ZEALAND PHARMA A/S, Sydmarken 11, 2860, Søborg, Denmark ~72: ANNELINE NANSEN;CAROLA WENANDER~ 33:EP ~31:22202304.6 ~32:18/10/2022;33:EP ~31:23184483.8 ~32:10/07/2023

2025/02352 ~ Complete ~54:PHARMACEUTICAL FORMULATION AND DOSING REGIMEN FOR THE TREATMENT OF AMYOTROPHIC LATERAL SCLEROSIS ~71:AL-S PHARMA AG, Wagistrasse 18,, Switzerland ~72: GENGE, Angela;MAIER, Marcel;SALZMANN, Michael~ 33:EP ~31:22192430.1 ~32:26/08/2022

2025/02358 ~ Complete ~54:A KIND OF FLOTATION EQUIPMENT WITH SLURRY SELF-DRIVING AND SELF-ABSORBING FUNCTIONS ~71:NINGBO UNIVERSITY OF FINANCE & ECONOMICS, NO. 899, XUEYUAN ROAD, HAISHU DISTRICT, NINGBO CITY, People's Republic of China ~72: HONG, Tanfei;JIN, Yunjie;LV, Meixian;SHAO, Mengkang;SHEN, Guofu;SHI, Weihui;SUN, Linzhi;XU, Xin;ZHU, Tonghuan;ZHU, Zaisheng~

2025/02345 ~ Complete ~54:VIRUS NUCLEIC ACID SAMPLE DILUENT, VIRUS NUCLEIC ACID SAMPLE EXTRACTION KIT, AND VIRUS NUCLEIC ACID EXTRACTION METHOD ~71:SHANGHAI BIOGERM MEDICAL TECHNOLOGY CO., LTD., Rooms 1302,1303,1304,1305,1306,1307,1309, Building 3, No.1588 Huhang

Highway, Fengxian District, Shanghai, 201415, People's Republic of China ~72: LI CHUNYAN;SHEN ZIMING;ZHANG CHUNLEI;ZHAO BAIHUI~ 33:CN ~31:202211182551.5 ~32:27/09/2022

2025/02354 ~ Provisional ~54:STOP RADIO ACTIVE DECAY ~71:JAN HENDRIK VAN EEDEN, 780 RIENEFF STREET, VILLIERIA, South Africa ~72: JAN HENDRIK VAN EEDEN~

2025/02340 ~ Complete ~54:SOLAR THERMODYNAMIC POWER GENERATOR ~71:KHOO, Benjamin, 29 Keppel Bay View, 05-85, Reflections, Singapore ~72: KHOO, Benjamin~ 33:US ~31:17/889,133 ~32:16/08/2022

2025/02353 ~ Complete ~54:PHOTORECEPTOR RESCUE CELL (PRC) COMPOSITIONS AND METHODS FOR TREATMENT OF OCULAR DISORDERS ~71:ASTELLAS INSTITUTE FOR REGENERATIVE MEDICINE, 9 Technology Drive, United States of America ~72: ABE, Masashi;DAO, Dang Quy;HILER, Daniel James;JO, Rebecca Eunkyung;KIMBREL, Erin;LUO, Chenmei;PAULSEN, Samantha Jean;PODOLSKIY, Dmitriy I.;REYES RAMIREZ, Santiago;THERIAULT, Kraig Marc~ 33:US ~31:63/373,298 ~32:23/08/2022;33:US ~31:63/432,948 ~32:15/12/2022

2025/02319 ~ Provisional ~54:UNIVERSAL GROWTH PLATFORM (UGP): A SYSTEM AND METHOD FOR FINANCIAL INCLUSION, WEALTH CREATION, AND ECONOMIC STIMULATION ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/02323 ~ Provisional ~54:BATTERY EXCHANGE SYSTEM ~71:MARTIN ANDRÉ PRETORIUS, 54 Pongola, Aerorand, Middelburg, 1050, South Africa ~72: MARTIN ANDRÉ PRETORIUS~

2025/02326 ~ Complete ~54:A TRANSITION BUS CONNECTING TERMINAL OF AN OUTLET TERMINAL OF A LOW-VOLTAGE MOLDED-CASE SWITCH ~71:CHINA RAILWAY HUATIE ENGINEERING DESIGN GROUP CO., LTD., No.36, Fengtai North Road, Fengtai District, Beijing, People's Republic of China ~72: Gu Yadong;Zhao Zhen;Zheng Xuri~ 33:CN ~31:2024208325871 ~32:22/04/2024

2025/02328 ~ Complete ~54:A BASE FOR INSTALLING AIRPORT RUNWAY CURB LIGHTS ~71:Zhengzhou University of Aeronautics, No.2 Daxue Middle Road, Erqi District, Zhengzhou City, Henan Province, 450046, People's Republic of China ~72: Xu Shuhong~

2025/02344 ~ Complete ~54:LASER MARKING APPARATUS (EMBODIMENTS) AND MARKER UNIT ~71:OBSCHESTVO S OGRANICHENNOJ OTVETSTVENNOSTYU "KALLISTO SERVICES", ul. Shabolovka, d.31G., Russian Federation ~72: Andrey Urevich SMERTIN;Evgenij Aleksandrovich KURMANOV;Igor Valerevich VAVILIN;Pavel Geogievich BULGAKOV;Vadim Nikolaevich SNACHEV~ 33:RU ~31:2022124935 ~32:22/09/2022;33:RU ~31:2023112969 ~32:19/05/2023

- APPLIED ON 2025/03/18 -

2025/02364 ~ Complete ~54:SYSTEM FOR MEASURING WATER PRESSURE TRANSMISSION RATE OF CONFINED AQUIFER ~71:Henan Province Airport Group, No. 1 Yingbin Avenue, Airport Zone, Zhengzhou, Henan Province, 451163, People's Republic of China;Key Laboratory of Xinjiang Coal Resources Green Mining (Xinjiang Institute of Engineering), Ministry of Education, No. 1350, Kechuang Road (Toutunhe District), Urumqi Economic and Technological Development Zone, Xinjiang, 830023, People's Republic of China;North China University of Water Resources and Electric Power, No. 136, Jinshui East Road, Zhengzhou City, Henan Province, 450046, People's Republic of China;Xinjiang Engineering Research Center of Green Intelligent Coal Mining, Xinjiang Institute of Engineering, No. 1350, Kechuang Road (Toutunhe District), Urumqi Economic and Technological Development Zone, Xinjiang, 830023, People's Republic of China ~72: LIANG, Yankun;MA, Liqiang;WANG, Wenxue;XIANG, Jingjing;ZHAO, Shuli;ZHENG, Kaidan~

2025/02372 ~ Complete ~54:A CONTAINER AND A LOCKING MECHANISM FOR A CONTAINER ~71:APL Cartons (Pty) Ltd, Abattoir Road, South Africa ~72: KLEINHANS, Frederick~

2025/02384 ~ Complete ~54:CONCENTRATED AGROCHEMICAL COMPOSITIONS OF ANTHRANILIC DIAMIDES ~71:Adama Makhteshim Ltd., P. O. Box 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: DAYAGI, Yohai;KABALIK, Alexandra~ 33:US ~31:63/411,164 ~32:29/09/2022

2025/02369 ~ Complete ~54:TENNIS COLLECTION DEVICE FOR TENNIS COURT ~71:LINYI UNIVERSITY, West of the north section of Industrial Avenue, Lanshan District, Linyi City, Shandong Province, People's Republic of China ~72: CHEN Qingjie;SHI Jinzheng;WANG Jingshuo;ZHU Fuying~

2025/02380 ~ Complete ~54:CALCIUM-BASED FLUX-CORED WIRE FOR METALLURGICAL TREATMENT OF A METAL BATH AND CORRESPONDING METHOD ~71:AFFIVAL, 70 rue de l'Abbaye, France ~72: BAHUON, Olivier, Noel;CARRÉ, Alexandre-Raynald Claude;CASTRO CEDEÑO, Edgar Ivan;SCHATZ, Marc~ 33:FR ~31:FR2209629 ~32:22/09/2022

2025/02382 ~ Complete ~54:MICROSTRUCTURE SIMULATION DURING HOT ROLLING ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Astrid PERLADE;Edgar Alejandro PACHON RODRIGUEZ;Ronan JACOLOT~ 33:IB ~31:PCT/IB2022/061711 ~32:02/12/2022

2025/02387 ~ Complete ~54:VEHICLE BODY ~71:MMD GROUP LIMITED, The House of Siziers, The Promenade Laxey, IM4 7DB, United Kingdom ~72: CHRISTOPHER PEARSON;MICHAEL KEMPTON~ 33:GB ~31:2214711.0 ~32:06/10/2022

2025/02356 ~ Provisional ~54:A CONTROL ASSEMBLY ~71:HILLS, Roger, Richard, 122 HAMPTON ROAD, GLEN AUSTIN, MIDRAND 1685, SOUTH AFRICA, South Africa ~72: HILLS, Roger, Richard;VENTER, Rian~

2025/02361 ~ Complete ~54:RIBOSE-MODIFIED CAP ANALOG AND USE THEREOF ~71:BEIJING YOU CARE KECHUANG PHARMACEUTICAL TECHNOLOGY CO., LTD., Room 101, 1st Floor, Building 3, Yard 11, Kechuang 7th Street, People's Republic of China ~72: DONG, Kai;JIANG, Lili;LIU, Yangjian;MA, Yuqing;SONG, Gengshen;WANG, Yanfeng;ZHANG, Chao;ZHANG, Guoliang;ZHANG, Honglei;ZHANG, Jinyu~ 33:CN ~31:2024105145551 ~32:26/04/2024;33:CN ~31:2024108141919 ~32:24/06/2024

2025/02366 ~ Complete ~54:AN AIR PURIFICATION DEVICE ~71:WERNER WATER RECYCLING (PTY) LTD., 26 Acacia Circle, DOWERGLEN EXT 3, Edenvale 1609, Gauteng, SOUTH AFRICA, South Africa ~72: VERMEULEN, Thomas Johannes~ 33:ZA ~31:2024/05032 ~32:27/06/2024

2025/02373 ~ Complete ~54:RISK PROBABILITY ASSESSMENT FOR CARGO SHIPMENT OPERATIONS AND METHODS OF USE THEREOF ~71:REDKIK OY, Länsikatu 15, Joensuu, 80110, Finland ~72: CHRIS KALINSKI~ 33:US ~31:63/185,593 ~32:07/05/2021

2025/02376 ~ Complete ~54:A DEEP LEARNING BASED SYSTEM FOR MITIGATING ALGORITHMIC BIAS IN FACIAL RECOGNITION TECHNOLOGY ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: DESHMUKH, Gopal;KOLLA, Ashita Chandrashekar;MAHALLE, Parikshit N.;SULE, Bipin;TAKALE, Dattatray G.~

2025/02381 ~ Complete ~54:DESERT GREENHOUSE FRAMEWORK SYSTEM AND CONTROL METHOD THEREFOR ~71:SICHUAN AGRICULTURAL UNIVERSITY, No.46 Xinkang Road, Yucheng District, Ya 'an City, Sichuan Province, 625014, People's Republic of China ~72: GE Sang;GUO Kexin;JIANG Chengyao;LI Mengyao;LI Yinfu;LIU Yue;LU Wei;PENG Wenjun;SU Yifei;WANG Sen;ZHENG Yangxia~ 33:CN ~31:2023110120210 ~32:11/08/2023

2025/02363 ~ Complete ~54:MOBILE ROOF BOLTER ~71:HYDRO POWER EQUIPMENT (PTY) LTD, 19 Precision St, Kya Sand, Randburg, South Africa ~72: CRONJE, Johan Marthinus~ 33:ZA ~31:2024/01415 ~32:16/02/2024

2025/02367 ~ Complete ~54:A DYNAMIC RISK ASSESSMENT METHOD FOR WATER HAZARDS IN NON-COAL MINES WITH SELF-LEARNING EARLY WARNING THRESHOLDS ~71:Changsha Institute of Mining Research, Co., Ltd, No. 343, South Lu Shan Road, Yuelu District, Changsha City, Hunan Province, People's Republic of China ~72: Chao Gao;Chengmin Zhu;Lei Xu;Shiping Xie;Weigong Yi;Zhu Yang~ 33:CN ~31:202410648910.4 ~32:23/05/2024

2025/02371 ~ Complete ~54:APPLICATION OF COMBINED INHIBITOR IN THE FLOTATION SEPARATION OF COPPER-MOLYBDENUM MIXED CONCENTRATE ~71:Central South University, No. 932 Lushan South Road, Yuelu District, Changsha City, Hunan Province, People's Republic of China ~72: JIANG Feng;TANG Honghu~ 33:CN ~31:202410317188.6 ~32:20/03/2024

2025/02378 ~ Complete ~54:SOLAR POWERED VIEWING OPTIC HAVING AN INTEGRATED DISPLAY SYSTEM ~71:SHELTERED WINGS, INC. d/b/a VORTEX OPTICS, BARNEVELD, WI 53507, USA, United States of America ~72: BOLLIG, Garrison;CARLSON, Andy;CODY, Tom;HAMILTON, Sam;HAVENS, Calen;KLEMM, Ian;LEWIS, Alexander;LOWRY, William;PALZKILL, Tony;RUE, Tim;TAYLOR, Cory~ 33:US ~31:63/371,948 ~32:19/08/2022

2025/02379 ~ Complete ~54:USING A DISTRIBUTED-LEDGER SYSTEM TO CONTROL GOODS DELIVERIES ~71:BASF SE, Carl-Bosch-Strasse 38, Germany;COMMERZBANK AG, Kaiserstraße 16, Germany;EVONIK OPERATIONS GMBH, Rellinghauser Straße 1-11, Germany ~72: GAGELMANN, Nils;JÖST, Andreas;KAHRE, Ralf;LEHNERT, Sven;LUX, Heinz-Günter;PIEPER, Oliver;VÖLKER, Patrik~ 33:EP ~31:22197305.0 ~32:23/09/2022

2025/02385 ~ Complete ~54:COMBINATIONS OF KETO-ENOL INSECTICIDES ~71:Adama Makhteshim Ltd., P.O. Box 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: DAHAN, Yogev;FRIEDMAN, Jacob;MEIRI, Erez;SHERMAN, Daniel~ 33:US ~31:63/408,496 ~32:21/09/2022

2025/02386 ~ Complete ~54:ETHER LIPIDS FOR HYPERACTIVATION OF MAMMALIAN DENDRITIC CELLS ~71:CORNER THERAPEUTICS, INC., 300 North Beacon Street, Building 39, Suite 202, Watertown, Massachusetts, 02472, United States of America ~72: DANIA ZHIVAKI;EMILY A GOSSELIN;JONATHAN CHOW;KALLANTHOTTATHIL RAJEEV;KELSEY FINN~ 33:US ~31:63/417,667 ~32:19/10/2022;33:US ~31:63/441,697 ~32:27/01/2023;33:US ~31:63/451,885 ~32:13/03/2023

2025/02355 ~ Provisional ~54:A SECURITY ENCLOSURE ~71:ERASMUS, Alwyn Jacobus, 1484 Mikayla Street, Leloko Lifestyle Estate, HARTBEESPOORT 0261, North West, SOUTH AFRICA, South Africa ~72: ERASMUS, Alwyn Jacobus~

2025/02365 ~ Complete ~54:APPLICATION OF WHEAT GENE TAWUS-A IN IMPROVEMENT ON REGENERATION EFFICIENCY OF IMMATURE EMBRYOS OF WHEAT ~71:Shandong Agricultural University, No. 61, Daizong Street, Taishan District, Tai'an City, Shandong Province, 271018, People's Republic of China ~72: SU, Yinghua;WAN, Xinyan;WANG, Xinyu;WANG, Yankai;WANG, Yipeng;YAN, Shizhe;YANG, Lei;YU, Haixia;ZHANG, Xiang~ 33:CN ~31:202411164750.2 ~32:23/08/2024

2025/02368 ~ Complete ~54:BOREHOLE IMAGER SUITABLE FOR MULTI-APERTURE AND GAIN IMAGING EFFECT ~71:CHINA UNIVERSITY MINING AND TECHNOLOGY-BEIJING, No. Ding-11 Xueyuan Road, Haidian District, Beijing, 100083, People's Republic of China;Hebei University of Engineering, No. 19, Taiji Road, Handan Economic and Technological Development Zone, Handan City, Hebei Province, 056038, People's Republic of

China ~72: CHEN, Dongdong;HAN, Zhe;YANG, Jiaran;ZHANG, Jiaming;ZHANG, Zhenquan~ 33:CN
~31:202410926345.3 ~32:11/07/2024

2025/02375 ~ Complete ~54:A SMART POWER CONTROL AND MONITORING SYSTEM USING LORA
~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR,
BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: NIKOSE, Mayank;PAWAR, Shital;SUPEKAR,
Nikita;WYAWAHARE, Medha~

2025/02383 ~ Complete ~54:BENZAZEPINE DERIVATIVES, COMPOSITIONS, AND METHODS FOR
TREATING COGNITIVE IMPAIRMENT ~71:AgeneBio, Inc., 1340 Smith Avenue, Suite 200, BALTIMORE 21209,
MD, USA, United States of America ~72: BUTERA, John A.;HUANG, Jianxing;MEKONNEN, Belew;PATEL,
Hemantbhai~ 33:US ~31:63/399,509 ~32:19/08/2022

2025/02389 ~ Provisional ~54:EVOLUTIONS SULATION ~71:ALAN GEMMELL, 115 FAERIE GLEN ESTATE,
MARGATE, South Africa ~72: ALAN GEMMELL~

2025/02374 ~ Complete ~54:MOBILE HARVESTING MACHINE FOR FRESH SPIRULINA ~71:Gansu Kaiyuan
Biotechnology Development Center Co., Ltd, Inside Hexi College, No. 846 Beihuan Road, Ganzhou District,
Zhangye City, Gansu Province 734000, People's Republic of China ~72: CAO Hai;LIU Haiyan;LUO
Guanghong;WANG Danxia;WANG Lijuan;WU Songhong;YANG Shenghui~ 33:CN ~31:2024103423995
~32:25/03/2024

2025/02357 ~ Provisional ~54:A KIT FOR REPURPOSING A LIQUID ~71:VAN STADEN, Johannes, Lodewyk,
DIV 402 & 413, HARTBEESPOORT NO. 419 JQ DISTRICT BRITS, SOUTH AFRICA, South Africa;VAN
STADEN, Morne, DIV 402 & 413, HARTBEESPOORT NO. 419 JQ DISTRICT BRITS, SOUTH AFRICA, South
Africa ~72: VAN STADEN, Johannes, Lodewyk~

2025/02362 ~ Complete ~54:CORRECTION DEVICE FOR PREVENTING ADOLESCENT SCOLIOSIS ~71:LINYI
UNIVERSITY, West of the north section of Industrial Avenue, Lanshan District, Linyi City, Shandong Province,
People's Republic of China ~72: CHEN Kuiyu;DING Huanxiang;SHI Zebin~

2025/02370 ~ Complete ~54:TODDLERHOOD BASKETBALL HOOP FOR PHYSICAL EDUCATION ~71:LINYI
UNIVERSITY, West of the north section of Industrial Avenue, Lanshan District, Linyi City, Shandong Province,
People's Republic of China ~72: LIU Jiongyuan;WANG Xueqin;ZHANG Yinghui~

2025/02377 ~ Complete ~54:A WEB-BASED SYSTEM FOR FACILITATING AUTOMATED AGRICULTURAL
SERVICES AND MARKET ANALYTICS FOR FARMERS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY,
666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72:
GORNAR, Sachin Sitaram;HUJARE, Pravin;MAHALLE, Parikshit Narendra;RAHATE, Sneha Manoj;WANKHADE,
Shalini Vaibhav~

2025/02388 ~ Complete ~54:METHOD FOR TREATING A T-LYMPHOCYTE-MEDIATED DISEASE ~71:JOINT
STOCK COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Russian
Federation ~72: ALEKSANDROV, Aleksei Aleksandrovich;LINKOVA, Yulia Nikolaevna;MOROZOV, Dmitry
Valentinovich;MOROZOVA, Mariia Andreevna;OGANOVA, Marina Albertovna;USTIUGOV, Iakov
Urievich;ZINKINA-ORIKNAN, Arina Valerievna~ 33:RU ~31:2022122378 ~32:18/08/2022;33:RU
~31:2023110336 ~32:21/04/2023;33:RU ~31:2023121536 ~32:17/08/2023

- APPLIED ON 2025/03/19 -

2025/02431 ~ Complete ~54:A METHOD OF FORMING A LIQUID HYDROCARBON PRODUCT ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: BAKER, Robert Miles;HILL, Simon~ 33:GB ~31:2216857.9 ~32:11/11/2022

2025/02413 ~ Complete ~54:A METHOD OF MODIFYING AN ORGANIC CYTOTOXIN FOR USE AS A PAYLOAD IN AN ANTIBODY-DRUG CONJUGATE AND MODIFIED ORGANIC CYTOTOXINS DERIVED THEREFROM ~71:SIMRIS BIOLOGICS GMBH, MAGNUSSTR. 11, 12489 BERLIN, GERMANY, Germany ~72: ENKE, Dan;ENKE, Heike;NIEDERMEYER, Timo;SCHUSTER, Sabine;STOCK, Laura~ 33:EP ~31:22192517.5 ~32:27/08/2022

2025/02423 ~ Complete ~54:COMBUSTIBLE CHARGES ADHERING TO THE INNER WALL OF A COMBUSTIBLE STRUCTURE CONTAINING A PROPELLANT CHARGE ~71:EURENCO FRANCE SAS, 123 Allée de Brantes, 84700, Sorgues, France ~72: ALAIN TRONCHE;SÉBASTIEN CUVELIER~ 33:FR ~31:FR2209404 ~32:21/09/2022

2025/02425 ~ Complete ~54:TRIGGER ACTIVATION MECHANISM IN TIME-EVOLVING SCENE DESCRIPTION ~71:INTERDIGITAL CE PATENT HOLDINGS, SAS, 3 rue du Colonel Moll, 75017, Paris, France ~72: ETIENNE FAIVRE D'ARCIER;LOIC FONTAINE;PATRICE HIRTZLIN;PIERRICK JOUET;SYLVAIN LELIEVRE~ 33:EP ~31:22306405.6 ~32:23/09/2022

2025/02404 ~ Complete ~54:LEVERAGING HARDWARE SOLUTIONS FOR AI-DRIVEN DARK PATTERN DETECTION AND COMPLIANCE WITH PRIVACY REGULATIONS IN WEBSITE DATA COLLECTION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHALERAO, Prerana;DONGRE, Ganesh;GUPTA, Chirangi;HUDDAR, Nilaya Devdatta;JADHAV, Prranjali;KADAM, Prema S.;KUMBHAR, Pratiksha;MAHALLE, Parikshit N.;SHARMA, Nakul S.;SULE, Bipin;TAKALE, Dattatray G.;YADAV, Gitanjali B.~

2025/02406 ~ Complete ~54:A DECENTRALIZED SYSTEM USING BLOCKCHAIN WITH AI DRIVEN CHATBOT FOR AGRICULTURE ASSISTANCE ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: MAHALLE, Parikshit Narendra;PATIL, Heramb Jitendra;PATIL, Pushkar Sunil;SHAIKH, Aman Babasaheb;UIKEY, Jitesh Sunil;WANKHADE, Shalini Vaibhav~

2025/02396 ~ Complete ~54:SUPPLY CHAIN CREDIT EVALUATION AND RISK CONTROL METHOD BASED ON BLOCKCHAIN ~71:China West Normal University, NO. 1, Shida Road, Shunqing District, Nanchong City, Sichuan Province, 637009, People's Republic of China ~72: Chunyan Du~

2025/02412 ~ Complete ~54:RETROVIRAL VECTORS ~71:IP2IPO INNOVATIONS LIMITED, 2nd Floor 3 Pancras Square, Kings Cross, United Kingdom ~72: GILL, Deborah R.;HYDE, Stephen C.~ 33:GB ~31:2212472.1 ~32:26/08/2022

2025/02420 ~ Complete ~54:NOVEL TRICYCLIC HETEROCYCLIC CARBALDEHYDE COMPOUND AND PHARMACEUTICAL COMPOSITION, CONTAINING SAME, FOR IRE1? INHIBITION ~71:HANMI PHARM. CO., LTD., 214, Muha-ro, Paltan-myeon, Hwaseong-si, Gyeonggi-do, 18536, Republic of Korea ~72: JAE YUL CHOI;JI SOOK KIM;MIN JEONG KIM;SEUNG HYUN JUNG;WON GI PARK;YOUNG GIL AHN~ 33:KR ~31:10-2022-0125743 ~32:30/09/2022

2025/02427 ~ Complete ~54:SIRNA COMPOSITIONS AND METHODS TARGETING ALPHA-SYNUCLEIN NUCLEIC ACIDS ~71:ATALANTA THERAPEUTICS, INC., 51 Sleeper Street, 7th Floor Boston, Massachusetts, 02210, United States of America ~72: BRUNO MIGUEL DA CRUZ GODINHO;CORRIE GALLANT-BEHM;DANIEL CURTIS;MATTHEW HASSLER~ 33:US ~31:63/377,699 ~32:29/09/2022

2025/02429 ~ Complete ~54:METHOD, COMPUTER READABLE MEDIUM AND COMPUTER PROGRAM FOR ASSISTING A FIRST USER IN CAPTURING A DIGITAL IMAGE OF A TRANSPARENT WOUND DRESSING, AND FOR ASSISTING A SECOND USER IN REVIEWING DIGITAL IMAGES OF A TRANSPARENT WOUND DRESSING ~71:Essity Hygiene and Health Aktiebolag, GÖTEBORG 405 03, SWEDEN, Sweden ~72: FREIJ, Marthin;HEDDSON FRANSÉN, Sofia~

2025/02433 ~ Complete ~54:OPTICAL CABLE, COMMUNICATION DEVICE, AND OPTICAL COMMUNICATION SYSTEM ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: PAN, Wenqian;WU, Bo;ZHAO, Tieshuai~ 33:CN ~31:202223216097.9 ~32:30/11/2022

2025/02405 ~ Complete ~54:AN INTELLIGENT ROAD POTHOLE DETECTION AND ADAPTIVE NAVIGATION SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: DEDGAONKAR, Suruchi;KHAIRE, Pranav;MAHAJAN, Sanket;PAWAR, Pushkar;PAWAR, Sahil;SHELKE, Priya;SHEWALE, Chaitali~

2025/02394 ~ Complete ~54:ENVIRONMENT DESIGN DRAWING DISPLAY TABLE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: BAI Chen;LIU Rongji;RONG Shukun;SUN Chi;SUN Miao;WANG Chao;ZHANG Dandan;ZHANG Hua~

2025/02398 ~ Complete ~54:CYLINDER LOCK ~71:CISA S.p.A., Via Guglielmo Oberdan, 42, FAENZA 48018, ITALY, Italy ~72: FABBRI, Matteo~ 33:EP ~31:24171915.2 ~32:23/04/2024

2025/02399 ~ Complete ~54:ELECTRONIC TRANSACTION MANAGEMENT SYSTEM FOR PROVIDING A TIP ~71:NAGAO , Koki, 619-1 Yawatahigashi-cho, NAGAHAMA-SHI 5260031, SHIGA, JAPAN, Japan;NAGAO , Tsukasa, 141-1 Kamiteru-cho, NAGAHAMA-SHI 5260015, SHIGA, JAPAN, Japan ~72: NAGAO , Koki;NAGAO , Tsukasa~ 33:US ~31:18/704,421 ~32:24/04/2024

2025/02410 ~ Complete ~54:METHODS FOR TREATING PROGRESSIVE FAMILIAL INTRAHEPATIC CHOLESTASIS ~71:MIRUM PHARMACEUTICALS, INC., 989 E Hillsdale Blvd., Suite 300, United States of America ~72: JAECKLIN, Thomas~ 33:US ~31:63/418,589 ~32:23/10/2022;33:US ~31:63/423,310 ~32:07/11/2022;33:US ~31:63/471,291 ~32:06/06/2023;33:US ~31:63/522,355 ~32:21/06/2023

2025/02416 ~ Complete ~54:PRESSURE EXCHANGE CHAMBER ~71:WEIR MINERALS NETHERLANDS B.V., Egtenrayseweg 9, Netherlands ~72: SIEBERS, Philippus;STROEKEN, Johannes;UMMENTHUN, Frank~ 33:GB ~31:2214809.2 ~32:07/10/2022

2025/02418 ~ Complete ~54:BWP AND L1-L2 INTER-CELL MOBILITY ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: DA SILVA, Icaro Leonardo;GONUGUNTLA, Venkatarao;ORSINO, Antonino;TIDESTAV, Claes~ 33:US ~31:63/412,231 ~32:30/09/2022

2025/02421 ~ Complete ~54:DRYING SYSTEM AND METHOD FOR DRYING A COATING FOR TINS ~71:BELVAC PRODUCTION MACHINERY, INC., 237 Graves Mill Road, Lynchburg, Virginia, 24502-4203, United States of America ~72: ULF REINHARDT~ 33:DE ~31:10 2022 123 370.7 ~32:13/09/2022

2025/02390 ~ Provisional ~54:A LONG-RANGE MISSILE DEFENCE SYSTEM ~71:VAN NIEKERK, Erenst Hannes, 103 Sea Hare Circle, Atlantic Beach Estate, South Africa ~72: VAN NIEKERK, Erenst Hannes~

2025/02414 ~ Complete ~54:SDK REPAIR METHOD AND APPARATUS, TERMINAL, DEVICE, SYSTEM, AND MEDIUM ~71:CHINA UNIONPAY CO., LTD., 36 HANXIAO RD., PUDONG NEW AREA, SHANGHAI 200135,

CHINA, People's Republic of China ~72: LIU, Qiang;SHEN, Xi;TANG, Zhixiong;WU, Wenchuan;XIA, Ji~ 33:CN
~31:202211035360.6 ~32:26/08/2022

2025/02424 ~ Complete ~54:LIFTING LINER FOR A ROTARY TUBE MILL ~71:MAGOTTEAUX
INTERNATIONAL S.A., Rue Adolphe Dumont, 4051, Vaux-sous-Chèvremont, Belgium ~72: XAVIER PRIGNON~
33:EP ~31:23154911.4 ~32:03/02/2023

2025/02402 ~ Complete ~54:AN IOT-ENHANCED SOFTWARE-DRIVEN AGRICULTURAL SYSTEM FOR
OPTIMIZING CROP GROWTH THROUGH EARTHWORM INTEGRATION AND REAL-TIME DATA
PROCESSING ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER
INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BUCHADE, Amar;DESHPANDE,
Vivek S.;DUBE, Raghav;JOSHI, Amogh;MAHAJAN, Rupali Atul;MAHALLE, Parikshit N.;PAWAR, Pratik;TAKALE,
Dattatray~

2025/02408 ~ Complete ~54:A METHOD OF PREPARING A MULTIPixel IMAGE FOR QUILTING AND A
PREPARED IMAGE ~71:SWANEPOEL, Ansulet, 34 Sipres Avenue, BAINSVLEI, Bloemfontein 9301, Free State,
SOUTH AFRICA, South Africa ~72: SWANEPOEL, Ansulet~ 33:ZA ~31:2024/02518 ~32:02/04/2024

2025/02411 ~ Complete ~54:METHODS OF TREATING OBESITY, DIABETES, AND LIVER DYSFUNCTION
~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of
America ~72: KLEINER, Sandra;MASTAITIS, Jason;SLEEMAN, Mark W.~ 33:US ~31:63/376,582
~32:21/09/2022;33:US ~31:63/508,458 ~32:15/06/2023

2025/02415 ~ Complete ~54:REAL TIME SLAG TEMPERATURE CONTROL ~71:GREYLING, Frederik Petrus, 5
St George Avenue, Midlands Estate, South Africa;GREYLING, Ruan, 9 Dolerite Crescent, Middelburg, South
Africa ~72: GREYLING, Frederik Petrus;GREYLING, Ruan~ 33:ZA ~31:2022/11603 ~32:25/10/2022

2025/02422 ~ Complete ~54:TREATMENT FOR HEART FAILURE WITH PRESERVED EJECTION FRACTION
WITH GUANETHIDINE AND GUANADREL ~71:M2SP LLC, 392 Fairmount Road, Califon, New Jersey, 07830,
United States of America ~72: MARC GRODMAN;MATHEW MAURER~ 33:US ~31:63/376,121
~32:19/09/2022;33:US ~31:63/486,280 ~32:22/02/2023

2025/02426 ~ Complete ~54:POLYMERS ~71:MOLECULAR MEDICAL LTD, Laboratory 14B, The Surrey
Technology Centre, The Surrey Research Park, Guildford, Surrey, GU2 7YG, United Kingdom ~72: PEDRO
GARCIA;SEAN LEO WILLIS;YIQING TANG~ 33:GB ~31:2214014.9 ~32:26/09/2022;33:GB ~31:2305905.8
~32:21/04/2023

2025/02428 ~ Complete ~54:POLYMER COMPOSITIONS COMPRISING A SALT OF
CYCLOPENTYLPHOSPHONIC ACID AND ARTICLES MADE FROM SUCH POLYMER COMPOSITIONS
~71:Milliken & Company, 920 Milliken Road (M-495), SPARTANBURG 29303, SC, USA, United States of
America ~72: DOTSON, Darin L.;XU, Xiaoyou~

2025/02392 ~ Provisional ~54:QUICKCATCH ~71:QUICKCATCH (PTY) LTD, 98 HENDRINA STREET, South
Africa;QUICKCATCH (PTY) LTD, 98 HENDRINA STREET, South Africa ~72: QUICKCATCH (PTY) LTD~ 33:ZA
~31:01 ~32:18/03/2025

2025/02393 ~ Complete ~54:MOBILE CONTENT SOURCE FOR USE WITH INTELLIGENT RECOGNITION AND
ALERT METHODS AND SYSTEMS ~71:AI CONCEPTS, LLC, 121 Greenway Boulevard, Carrollton, Georgia,
United States of America ~72: SAMPLES, Johnathan~ 33:US ~31:18/610,707 ~32:20/03/2024

2025/02395 ~ Complete ~54:COMPOSITE SUPPORT PROP ~71:MSP MINE SUPPORT PRODUCTS (PTY) LTD, 108 Houtkop Road, South Africa ~72: COWIE, Hilton James;NISSSEN, Christian Engelstoff~ 33:ZA ~31:2024/02944 ~32:17/04/2024

2025/02400 ~ Complete ~54:A CRYPTOGRAPHIC WIFI MODULE FOR SECURE CLOUD INTEGRATION IN IOT DEVICES ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: KADU, Anil Baban;PITHE, Sarthak Sanjay;POTNIS, Hrishikesh Shekhar;RAJURKAR, Janhavi Ajit;RAUT, Ketaki Dharmraj;SALUNKE, Sakshi Dayanand~

2025/02409 ~ Complete ~54:CULTURE MEDIUM AND METHOD FOR REDUCING APOPTOTIC CELLS IN BOVINE IN VITRO FERTILIZED EMBRYOS ~71:INSTITUTE OF ANIMAL SCIENCE AND VETERINARY MEDICINE, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, 23788 Gong Ye Bei Road, Jinan, People's Republic of China;SHANDONG OX LIVESTOCK BREEDING CO., LTD., 22151 Gong Ye Bei Road, Jinan, People's Republic of China ~72: GAO, Yaping;GAO, Yundong;HUANG, Jinming;JIANG, Qiang;JU, Zhihua;MA, Qingtao;WANG, Jinpeng;WANG, Lingling;WANG, Xiuge;WANG, Yujie;WEI, Xiaochao;XIAO, Yao;YANG, Chunhong;ZHANG, Yan;ZHANG, Yaran~ 33:CN ~31:2024103510654 ~32:26/03/2024

2025/02397 ~ Complete ~54:METHODS FOR TREATING OBSTRUCTIVE SLEEP APNEA ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BUNCK, Mathijs Christiaan Michael~ 33:US ~31:63/214,975 ~32:25/06/2021

2025/02401 ~ Complete ~54:A LIVE SELL AND SERVICE INDICATOR ON GOOGLE MAP FOR BUSINESSES ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BUCHADE, Amar;DESHMANE, Pranav Sudhakar;INGLE, Yashwant;MAHALLE, Parikshit Narendra;SANJIV, Mahesh Ambadas;WAGHMARE, Soham Sandeep;WAYKOS, Prajwal Pravinkumar~

2025/02403 ~ Complete ~54:AN IOT SCARECROW SYSTEM FOR CROPS PROTECTION WITH ADAPTIVE THREAT MANAGEMENT ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BUCHADE, Amar;DESHMANE, Vivek S.;DONGRE, Ganesh;DUBE, Raghav;JOSHI, Amogh;MAHAJAN, Rupali Atul;MAHALLE, Parikshit N.;PAWAR, Pratik~

2025/02417 ~ Complete ~54:MULTIVALENT PROTEINS AND SCREENING METHODS ~71:VALINK THERAPEUTICS LTD, Imperial Translation & Innovation Hub, United Kingdom ~72: BREM, Reto;CHAVEZ, Oswaldo Javier Aguay;DORGAN, Benjamin;HOFFMANN, Ricarda Melina;KHAIRIL, Irsyad;NIKOV, Georgi;SCHEU, Arne Hagen August;WILSON, Jack~ 33:GB ~31:2214235.0 ~32:28/09/2022;33:GB ~31:2309124.2 ~32:16/06/2023

2025/02419 ~ Complete ~54:PYRAZOLE AMIDE INSECTICIDES ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: GEORGE PHILIP LAHM;JEFFREY KEITH LONG;JYOTI NANDI;THOMAS FRANCIS PAHUTSKI JR.~ 33:US ~31:63/409,393 ~32:23/09/2022

2025/02430 ~ Complete ~54:MICROBIOCIDAL PYRAZOLE DERIVATIVES ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BIGOT, Aurelien;EDMUNDS, Andrew;EL QACEMI, Myriem;LAMBERTH, Clemens;MAHAJAN, Atul;SCARBOROUGH, Christopher Charles;SHASHIKANT, Dighe;STIERLI, Daniel~ 33:IN ~31:202211056317 ~32:30/09/2022;33:EP ~31:22208403.0 ~32:18/11/2022

2025/02432 ~ Complete ~54:CRYSTAL FORM AND AMORPHOUS FORM OF CAREBASTINE P-TOLUENESULFONATE ~71:CHENGDU SHIBEIKANG BIOMEDICAL TECHNOLOGY CO., LTD., No. 1, 1st

Floor, Unit 1, Building 26 No.2, Tianyu Road, High-tech Zone, People's Republic of China ~72: JIANG, Jie;MOU, Xia;WANG, Xiaoyu;ZHANG, Li;ZHOU, Ning~ 33:CN ~31:202310000722.6 ~32:03/01/2023

2025/02391 ~ Provisional ~54:CAPACITIVE SENSING STRUCTURE ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: DU TOIT, Riaan;RADEMEYER, Daniel Barend;WOLMARANS, Wikus~

2025/02407 ~ Complete ~54:A HYBRID PACKED BED HEAT REGENERATING RESERVOIR SYSTEM ~71:SHIVALIK COLLEGE OF ENGINEERING DEHRADUN, SHIVALIK COLLEGE OF ENGINEERING DEHRADUN, SHINIWALA P.O. SHERPUR, SHESHAMBARA, NEAR HIMIGIRI ZEE UNIVERSITY SHIMLA BY PASS ROAD DEHRADUN, UTTARAKHAND – 248197, India;Shivasheesh Kaushik, Assistant Professor, Mechanical Engineering Department, Shivalik College Of Engineering Dehradun, Shiniwala P.O. Sherpur, Sheshambara, Near Himigiri Zee University, Shimla By Pass Road, Dehradun, Uttarakhand – 248197, India ~72: Ajay Kumar Verma;Aman Alam;Amit Kumar;Anil Kumar;Anurag Rawat;Aswathy M;Deepak Gupta;Dr. Dinesh Kumar Rao;Dr. Amit Kumar;Dr. Bhupendra Kumar;Dr. Botcha Appalanaidu;Dr. Kuldeep Panwar;Dr. Kuldeep Rawat;Dr. Rahul Kshetri;Ijas M S;Lalit Mohan Joshi;Lalit Ranakoti;Manish Kumar;Niraj Kumar;Nitish Kumar Yadav;Prabhakar Bhandari;Shabaaz Khan;Shivasheesh Kaushik;Vishnu R Nair;Vivek Sajwan~

- APPLIED ON 2025/03/20 -

2025/02457 ~ Complete ~54:AN AI BASED DYNAMIC TRAFFIC LIGHT SIGNAL CONTROL SYSTEM FOR HEAVY TRAFFIC MANAGEMENT ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: CHAVHAN, Vaibhav Vinod;GAIKWAD, Vidya S.;HESE, Uday Ganesh;KAMBLE, Khushi Rahul;MUNDHE, Siddhesh Suresh;PATIL, Amol V.;SABLE, Nilesh P.;UNDALE, Chaitanya Kishor;YENKIKAR, Anuradha V.~

2025/02459 ~ Complete ~54:AN AI-ASSISTED EDUCATION SYSTEM FOR MULTI-TYPE CONTENT PROCESSING AND LEARNING PRODUCTS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHANDARE, Sarthak;DESALE, Nishant Rangrao;DHOLE, Yashraj Avinash;GAIKWAD, Vidya Shrimant;MEHTA, Pradnya S.;PATIL, Amol;SABLE, Nilesh Popat;WALAVALKAR, Viraj Milan~

2025/02468 ~ Complete ~54:VIEWING OPTIC WITH SOFTWARE CAPABILITIES IMPLEMENTED BY AN ENABLER ~71:SHELTERED WINGS, INC. d/b/a VORTEX OPTICS, BARNEVELD, WI 53507, USA, United States of America ~72: BOLLIG, Garrison;CODY, Tom;HAMILTON, Sam;HAVENS, Calen;JAUCH, Keegan;KLEMM, Ian;LEWIS, Alexander;LOWRY, William;PALZKILL, Tony;RUE, Tim;SAUSEN, Zach;TAYLOR, Cory~ 33:US ~31:63/373,428 ~32:24/08/2022

2025/02469 ~ Complete ~54:COMPOUND FOR TREATMENT OF PAIN ~71:INITIATOR PHARMA A/S, Ole Maaløes Vej 3, Denmark ~72: SIMONSEN, Ulf;THOMSEN, Mikael~ 33:EP ~31:22204453.9 ~32:28/10/2022

2025/02475 ~ Complete ~54:TNF ALPHA AND INTERLEUKIN-2 COMBINATION THERAPY FOR NON-MELANOMA SKIN CANCER ~71:PHILOGEN S.P.A., La Lizza 7, 53100, Siena, Italy ~72: DARIO NERI;EMANUELE PUCA;GIULIANO ELIA;LISA NADAL~ 33:EP ~31:22193432.6 ~32:01/09/2022;33:EP ~31:23163294.4 ~32:21/03/2023;33:EP ~31:23168600.7 ~32:18/04/2023

2025/02476 ~ Complete ~54:NOVEL TETRAHETEROCYCLE COMPOUND ~71:IDIENCE CO., LTD., 2, Baumoe-ro 27-gil, Seocho-gu, Seoul, 06752, Republic of Korea ~72: CHANG HEE HONG;HONG CHUL YOON;JIN HEE LEE;JIN WOONG KIM;JONG SEON PARK;JOO YUN LEE;JOON TAE PARK;JUNG WOO LEE;KYUNG MI AN;SOO JUNG HONG;SUNG JUN HONG~ 33:KR ~31:10-2022-0121129 ~32:23/09/2022;33:KR ~31:10-2022-0183607 ~32:23/12/2022

2025/02455 ~ Complete ~54:A REDESIGNED ELECTRONIC VOTING MACHINE (EVM) FOR MODERN ELECTIONS TO ENHANCE VOTER PARTICIPATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: BELAVANKI, Atharva;CHAVHAN, Pranali;GAIKWAD, Vidya Shrimant;KADU, Abhishek;KARNIK, Madhuri Prashant;MAHAJAN, Pranav;MANIKJADE, Akshay Ashok;MISHRA, Vaishali;TONGALE, Gajanan;WANKHEDE, Disha Sushant~

2025/02458 ~ Complete ~54:AN AI OPTIMIZED STRESS RELIEF SYSTEM FOR DRIVERS USING SENSORS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: CHAVHAN, Pranali;MARAL, Vikas;PATIL, Swati;RATHI, Snehal;TIWASKAR, Shweta~

2025/02463 ~ Complete ~54:A DIGITAL SECURITY DOOR GUARD SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: KAD, Sarish Umesh;KADAM, Anup Suresh;KANJALKAR, Jyoti Pramod;KANJALKAR, Pramod Madhav;KAPRE, Ved Kedar;KHOT, Anant Tanaji;KSHIRSAGAR, Urvi Prashant;MADNURKAR, Parth Shridhar;MANE, Rutuja Santosh;RAJAM, Nagraj Naresh~

2025/02443 ~ Complete ~54:DUCT CLAMP ~71:UNIQUE VENTILATION AND SUPPORT SYSTEMS (PTY) LTD, 1 Resnick Street, Fectoria, South Africa ~72: JAKES VAN DER MERWE~

2025/02444 ~ Complete ~54:ELECTROPLATING PROCESS ~71:CASPER COMBRINK INVESTMENTS (PTY) LTD, 17 Pittsburg Road, Apex, South Africa ~72: CASPER J COMBRINK~

2025/02474 ~ Complete ~54:GLUCOCORTICOID RECEPTOR AGONISTS ~71:Eli Lilly and Company, LILLY CORPORATE CENTER, INDIANAPOLIS 46285, IN, USA, United States of America ~72: AHMED, Adel Ahmed Rashad;CLAYTON, Joshua Ryan;LOPEZ GARCIA, Jose Eduardo;MARIMUTHU, Jothirajah;MCMILLEN, William Thomas;STITES, Ryan Edward;WILSON, Takako;WURST, Jacqueline Mary~ 33:US ~31:63/409,024 ~32:22/09/2022

2025/02450 ~ Complete ~54:TETRAHYDROPYRAZOLO-PYRAZINYL-DIHYDROIMIDAZOLONE OR TETRAHYDROPYRAZOLO-PYRIDINYL-DIHYDROIMIDAZOLONE COMPOUNDS AND METHODS OF USING SAME ~71:ECCOGENE INC., One Mifflin Place, Suite 400, United States of America ~72: REN, Zaifang;SUN, Xuefeng;XU, Qing;ZHOU, Jingye~ 33:CN ~31:PCT/CN2020/102955 ~32:20/07/2020;33:CN ~31:PCT/CN2021/070120 ~32:04/01/2021

2025/02454 ~ Complete ~54:A KIT FOR RAPID DETECTION OF MINIMUM INHIBITORY CONCENTRATION OF ANTIBIOTIC AGAINST SELECTED BACTERIAL SPECIES ~71:GHANWATE, Niraj, ASSISTANT PROFESSOR, DEPARTMENT OF MICROBIOLOGY, SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI, MAHARASHTRA, India;MANDVIYA, Pooja, RESEARCH SCHOLAR, DEPARTMENT OF BIOTECHNOLOGY, SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI, MAHARASHTRA, India;THAKARE, Prashant, ASSOCIATE PROFESSOR, DEPARTMENT OF BIOTECHNOLOGY, SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI, MAHARASHTRA, India ~72: GHANWATE, Niraj;MANDVIYA, Pooja;THAKARE, Prashant~

2025/02460 ~ Complete ~54:A HYDROPONICS SYSTEM USING PH SENSOR AND EC SENSOR ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: ATREYA, Swaroop;CHATTERJEE, Anubrat;CHATTERJEE, Anurag;GAVARASKAR, Rupali~

2025/02466 ~ Complete ~54:AMMONIUM SALT POLYMER, METHOD FOR PREPARING SAME, AND USE THEREOF AS BILE ACID CHELATING AGENT ~71:WATERSTONE PHARMACEUTICALS (WUHAN) CO., LTD., B3-4, Biolake, No. 666 Gaoxin Road, Eastlake National High-Tech Development Zone, People's Republic of China ~72: HU, Minglong;LI, Tongtong;WANG, Xiaolong;YU, Yao;ZHANG, Faming;ZHAO, Along;ZHOU, Youcheng~

2025/02470 ~ Complete ~54:CHAOTROPES-ASSISTED DEEP IMMUNOSTAINING ~71:THE CHINESE UNIVERSITY OF HONG KONG, Shatin, New Territories, People's Republic of China ~72: LAI, Hei Ming;YAU, Chun Ngo~ 33:US ~31:63/387,773 ~32:16/12/2022

2025/02437 ~ Provisional ~54:SCALE ACCURACY MONITORING ~71:TRU-TRAC ROLLERS (PTY) LTD., 590 Barolong Street, Icon Industrial Park, Sunderland Ridge, Centurion, 0157, South Africa ~72: SHAUN LEROY BLUMBERG~

2025/02440 ~ Complete ~54:STEEL-REINFORCED CONCRETE IMPACT RESISTANCE TEST DEVICE ~71:Anhui Water Conservancy Technical College, No. 18 Hema Road, Longtang, Dongmen, Hefei, Anhui, People's Republic of China ~72: LIU, Yang;WU, Rui;XU, Jiajun~ 33:CN ~31:202410948906X ~32:16/07/2024

2025/02445 ~ Complete ~54:A DEVICE AND METHOD FOR ION-ADSORPTION RARE EARTH MINERAL EXPLORATION BASED ON REMOTE SENSING TECHNOLOGY ~71:Kunming Metallurgy College, No. 388, Xuefu Road, Wuhua District, Kunming City, Yunnan Province, 650031, People's Republic of China ~72: Donghao He;Hanping Zhang;Haobo Ji;Jinliang Zhang;Kaishan Lin;Qi Nie;Xiangdong Niu;Xingwei Xu;Yang Liu;Yiming Wen;Yong Cheng;Yufeng Guo;Zhixian Zhong~

2025/02449 ~ Complete ~54:CRYSTALLINE SOLIDS OF 3-PALMITOYL-AMIDO-1,2-PROPANEDIOL AND 3-PALMITOYL-AMIDO-2-HYDROXY-1-DIMETHOXYTRIPHENYLMETHYLETHYER-PROPANE AND METHODS OF MAKING AND USING THE SAME ~71:GERON CORPORATION, 919 E. Hillsdale Blvd. Suite 250, Foster City, California, 94404, United States of America ~72: JENNIFER E ALBANEZE-WALKER~ 33:US ~31:62/926,810 ~32:28/10/2019

2025/02451 ~ Complete ~54:ANTIBODY SPECIFIC FOR MUCIN-1 AND METHODS OF USE THEREOF ~71:R.P. SCHERER TECHNOLOGIES, LLC, 112 North Curry Street, Carson City, United States of America ~72: BARFIELD, Robyn M.;BAUZON, Maxine;DRAKE, Penelope M.;KIM, Yun Cheol;OGUNKOYA, Ayodele;RABUKA, David~ 33:US ~31:63/059,497 ~32:31/07/2020

2025/02456 ~ Complete ~54:A PEER-TO-PEER TUTORING SYSTEM FOR USER INTERACTION AND TUTOR MANAGEMENT ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BADGUJAR, Niramay;BAMB, Rushikesh;BHANDARI, Mahesh;JADHAV, Shubham;KODMELWAR, Manohar;KOLHE, Pranav;KULKARNI, Prathamesh;PATHAK, Kishor;WANKHADE, Shalini~

2025/02462 ~ Complete ~54:AN AI-POWERED SYSTEM FOR ADVANCED HIRING AND SKILL ENHANCEMENT ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: BANCHHOR, Chitrakant;CHORGHADE, Aditya;GAIKWAD, Vidya S.;KHANDAVE, Aniket;PANDIT, Pranjali S.;PATANKAR, Komal;PATIL, Amol V.;SONWANE, Rutuja~

2025/02464 ~ Complete ~54:AN AUTOMATED ANSWER SHEET ASSESSMENT SYSTEM USING COMPUTER VISION AND MACHINE LEARNING ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72:

CHAUDHARI, Lokesh;DESHPANDE, Neha;GHADEKAR, Premanand P.;RATHOD, Krishna;SAMGIR, Suraj;UMBARE, Sumit;VAYADANDE, Kuldeep Baban~

2025/02471 ~ Complete ~54:SECURITY INK COMPOSITION AND MACHINE-READABLE SECURITY FEATURE DERIVED THEREFROM ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: DE FEO, Oscar;DE LATTRE, Anissa;FAVARO, Florence;GILLIERON, Mathieu;SIRIGU, Lorenzo~ 33:EP ~31:22191813.9 ~32:23/08/2022

2025/02436 ~ Provisional ~54:SPS SPRING COIL ~71:JGROODT, 95 Uranium Road, South Africa ~72: JGROODT~

2025/02439 ~ Provisional ~54:SYSTEM AND METHOD FOR ESG-FOCUSED CREDIT CARD, LOYALTY REWARDS, AND SOCIAL IMPACT PLATFORM ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/02447 ~ Complete ~54:COLLECTION DEVICE FOR RUST FUNGUS UREDIOSPORE OF WHEAT STRIPE ~71:Northwest A&F University, No. 22 Xinong Road, Yangling District, Xianyang City, Shaanxi Province, 712100, People's Republic of China ~72: Huaibo Song;Xu Chen;Yabin Zheng;Zhifeng Yao~ 33:CN ~31:202422385646.8 ~32:29/09/2024

2025/02441 ~ Complete ~54:METHOD FOR INTELLIGENT CALCULATION OF SEEPAGE SPILL POINT BASED ON TOTAL POTENTIAL ENERGY IN REAL DOMAIN ~71:Yantai University, No. 30 Qingquan Road, Yantai, Shandong Province, 264005, People's Republic of China ~72: Qianqian QU;Xingmin HOU~

2025/02446 ~ Complete ~54:CONTROL METHOD AND SYSTEM OF AUTOMATIC DEFROSTING FOR AIR CONDITIONER THEREOF ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: HAN Ershuai;JIN Junjie;LI Fengcui;LIU Chengyuan;LIU Hongtao;ZHANG Zhiyuan~

2025/02467 ~ Complete ~54:ELECTRICAL MACHINE ~71:APOTECHNOS LIMITED, 19 Kingsmill Business Park, Chapel Mill Road, United Kingdom ~72: HAJILOO, Ashkan;SALEHI-MOGHADAM, Mansour~ 33:EP ~31:22191799.0 ~32:23/08/2022;33:EP ~31:23176226.1 ~32:30/05/2023

2025/02472 ~ Complete ~54:HYBRID GLASS PRODUCTION FURNACE WITH ENERGY FLEXIBILITY AND METHOD FOR PRODUCING GLASS ~71:Saint-Gobain Glass France, Tour Saint-Gobain, 12 Place de l'Iris, COURBEVOIE 92400, FRANCE, France ~72: COMBES, Jean-Marie;LE VERGE, Arnaud;LITOUT, Yves;POUSSINEAU, Nicole;SAGET, Aurélien~ 33:EP ~31:22306392.6 ~32:22/09/2022

2025/02453 ~ Complete ~54:AN AI BASED OUTFIT RECOMMENDATION SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: BANCHHOR, Chitrakant;GAIKWAD, Vidya S.;JADHAV, Komal Suresh;MATE, Nandini Shirish;MEHTA, Pradnya S.;NANGARE, Sai;SAWANT, Neha Sambhaji;YENKIKAR, Anuradha V.~

2025/02473 ~ Complete ~54:ABHD6 ANTAGONIST ~71:Ono Pharmaceutical Co., Ltd., 1-5, Doshomachi 2-chome, Chuo-ku, OSAKA-SHI 5418526, OSAKA, JAPAN, Japan ~72: HYAKUTAKE, Ryuichi;MISU, Ryosuke;MORI, Shohei;NAGASHIMA, Nozomu;YOSHIDA, Atsushi~ 33:JP ~31:2022-157242 ~32:30/09/2022

2025/02435 ~ Provisional ~54:FACILITATING CUSTOMIZABLE TRANSACTION ENVIRONMENTS FOR A PLURALITY OF PLATFORM PARTICIPANTS ~71:MASITOPA (PTY) LTD, 5 St. John's Estate, 9 Higgs Crescent, Higgovale, South Africa ~72: SLAVEN, Matthew Raymond~

2025/02438 ~ Provisional ~54:A HEAT EXCHANGER FOR AN ABSORPTION REFRIGERATION SYSTEM
~71:COLD FACTOR (PTY) LTD, Cnr. Tugel Ave & 7th Ave (no. 42), South Africa ~72: TBA~

2025/02442 ~ Complete ~54:OPTIMIZED USER EQUIPMENT CAPABILITIES SIGNALING INCLUDING RECOVERY FROM DATABASE FAILURE ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: CASATI, Alessio~

2025/02448 ~ Complete ~54:POWER MONITORING DEVICE ~71:SOMERSET DYNAMICS (PTY) LTD, Section 2 Parc du Links, Niblick Way, South Africa ~72: COELHO, Carlos Nelson Serra;DU TOIT, Ruan Christiaan;FAUSTMANN, Alexander;PORTER, Kyle Alexander~ 33:ZA ~31:2023/11654 ~32:20/12/2023

2025/02452 ~ Complete ~54:EST-SSR MOLECULAR MARKER, KIT AND IDENTIFICATION METHOD FOR IDENTIFYING MESONA CHINENSIS BENTH VARIETIES ~71:GUANG XI BOTANICAL GARDEN OF MEDICINAL PLANTS, 88 Xiangzhu Avenue, Xingning District, Nanning City, People's Republic of China ~72: Changqian QUAN;Danfeng TANG;Fan WEI;Meihua XU~

2025/02461 ~ Complete ~54:A REAL-TIME IMAGE CLASSIFICATION BASED SMART THEATER SPOTLIGHT SYSTEM FOR ACTOR RECOGNITION AND SCENE ADAPTATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: GAIKWAD, Vidya S.;MALI, Yash Sachin;MEHTA, Pradnya S.;MORE, Abhishek Kiran;MOTGHARE, Sanchit Rustam;NAGARKAR, Sahil Jayant;PANDIT, Pranjal S.~

2025/02465 ~ Complete ~54:A DISTRIBUTING SURPLUS FOOD SYSTEM TO NGOS OR MANURE PRODUCERS USING IOT AND ML ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, - 411037, India ~72: JADHAV, Prithviraj;JAYBHAYE, Sangita;KAKARWAL, Urmila;KOLAWALE, Sanika;NIKAM, Vivek;SHINDE, Sandip;UKE, Shailaja~

2025/02477 ~ Complete ~54:SIRNA COMPOSITIONS AND METHODS TARGETING MICROTUBULE ASSOCIATED PROTEIN TAU NUCLEIC ACIDS ~71:ATALANTA THERAPEUTICS, INC., 51 Sleeper Street, 7th Floor Boston, Massachusetts, 02210, United States of America ~72: BRUNO MIGUEL DA CRUZ GODINHO;CORRIE GALLANT-BEHM;DANIEL CURTIS;MATTHEW HASSLER~ 33:US ~31:63/377,715 ~32:29/09/2022

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

Application Number	Assignor	Assignee
2018/02867	BOEHRINGER INGELHEIM INTERNATIONAL GMBH	ABLYNX N.V.
2019/06610	BOEHRINGER INGELHEIM INTERNATIONAL GMBH	ABLYNX N.V.
2023/08729	GANSU FORESTRY VOCATIONAL AND TECHNICAL COLLEGE XIZANG COLLEGE OF AGRICULTURE AND ANIMAL HUSBANDRY	XIZANG COLLEGE OF AGRICULTURE AND ANIMAL HUSBANDRY
2021/03772	NINGBO POLYTECHNIC	NINGBO BEILUN TIANJI INTELLIGENT TECHNOLOGY CO.
2023/07776	GANSU FORESTRY VOCATIONAL AND TECHNICAL COLLEGE	XIZANG COLLEGE OF AGRICULTURE AND ANIMAL HUSBANDRY

Application Number	Assignor	Assignee
	XIZANG COLLEGE OF AGRICULTURE AND ANIMAL HUSBANDRY	
2022/10860	QINHUANGDAO GREAT WALL GLASS INDUSTRY CO., LTD.	QINHUANGDAO DANFENG TECHNOLOGY CO., LTD.
2024/00943	BAO, JUNWEI	INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES, INSTITUTE OF QUALITY SAFETY AND TESTING FOR AGRICULTURE AND ANIMAL HUSBANDRY OF MONGOLIA
2024/00878	INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES	INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES, INSTITUTE OF QUALITY SAFETY AND TESTING FOR AGRICULTURE AND ANIMAL HUSBANDRY OF MONGOLIA
2024/00879	INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES	INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES, INSTITUTE OF QUALITY SAFETY AND TESTING FOR AGRICULTURE AND ANIMAL HUSBANDRY OF MONGOLIA
2023/07089	ZHENGZHOU UNIVERSITY OF INDUSTRIAL TECHNOLOGY	HENAN XINMUDE NEW MATERIAL TECHNOLOGY CO., LTD.
2023/08892	ZHENGZHOU UNIVERSITY OF INDUSTRIAL TECHNOLOGY	ZHENGZHOU YILE TECHNOLOGY CO., LTD.
2023/08811	ZHENGZHOU UNIVERSITY OF INDUSTRIAL TECHNOLOGY	ZHENGZHOU YILE TECHNOLOGY CO., LTD.
2023/08256	ZHENGZHOU UNIVERSITY OF INDUSTRIAL TECHNOLOGY	HENAN XINMUDE NEW MATERIAL TECHNOLOGY CO., LTD.
2023/08257	ZHENGZHOU UNIVERSITY OF INDUSTRIAL TECHNOLOGY	HENAN XINMUDE NEW MATERIAL TECHNOLOGY CO., LTD.
2023/07100	EMERGENCY THERAPEUTICS GMBH	ELI LILLY AND COMPANY
2023/07097	EMERGENCY THERAPEUTICS GMBH	ELI LILLY AND COMPANY
2024/09939	CHROMA MEDICINE, INC.,	NCHROMA BIO, INC.
2023/06815	CHROMA MEDICINE, INC.,	NCHROMA BIO, INC.
2022/08118	GREEN CURRECNT (PTY) LTD	I.P. BASICS HOLDING LIMITED
2024/04030	UNIVERSITE DE RENNES 1	UNIVERSITE DE RENNES
2017/05954	SIPCAM INAGRA, S.A.	SOFBEY S.A.
2023/07088	ZHENGZHOU UNIVERSITY OF INDUSTRIAL TECHNOLOGY	ZHENGZHOU YILE TECHNOLOGY CO., LTD.
2023/10880	CODEXIS, INC.	SYNTIS BIO, INC.
2022/07854	CODEXIS, INC.	SYNTIS BIO, INC.
2009/06872	AEP ADVANCED ECOPOWER PATENTS SA	SUNCHEM AEP GMBH
2009/06872	SUNCHEM AEP GMBH	SUNCHEM B.V.
2021/01370	EIGER BIOPHARMACEUTICALS, INC.	EIGER INNOTHERAPEUTICS, INC.
2022/04021	EIGER BIOPHARMACEUTICALS, INC.	EIGER INNOTHERAPEUTICS, INC.
2023/11720	HYDROGEN TECHNOLOGY MAURITIUS LIMITED	AFRICA SOUTH HYDROGEN PROPRIETARY LIMITED

Application Number	Assignor	Assignee
2018/08566	TOTALENERGIES SE	TOTALENERGIES ONETECH
2016/03815	TOTALENERGIES RAFFINAGE CHIMIE	TOTALENERGIES ONETECH
2019/08309	TOTALENERGIES RAFFINAGE CHIMIE	TOTALENERGIES ONETECH
2021/04711	WATER GREMLIN COMPANY	OTTER LAKE TECHNOLOGIES, LLC
2024/00370	LUNG THERAPEUTICS, LLC.	REIN THERAPEUTICS, INC.
2024/02648	SHANGHAI LIANGFU NEW ENERGY TECHNOLOGY CO., LTD.	GUANGXI FREE TRADE ZONE LIANGFU NEW ENERGY TECHNOLOGY CO., LTD
2024/02240	ENVISION ENERGY CO., LTD	ENVISION ENERGY TECHNOLOGY PTE LTD.
2022/06204	KYORIN PHARMACEUTICAL CO., LTD.	BAYER AKTIENGESELLSCHAFT
2024/04036	VALENT U.S.A. LLC	SUMITOMO CHEMICAL COMPANY, LIMITED
2024/02628	ENVISION ENERGY CO., LTD	ENVISION ENERGY TECHNOLOGY PTE LTD.
2024/01410	ENVISION ENERGY CO., LTD	ENVISION ENERGY TECHNOLOGY PTE LTD.
2024/05499	ENVISION ENERGY CO., LTD	ENVISION ENERGY TECHNOLOGY PTE LTD.
2023/00355	ENVISION ENERGY CO., LTD	ENVISION ENERGY TECHNOLOGY PTE LTD.
2024/00857	ENVISION ENERGY CO., LTD	ENVISION ENERGY TECHNOLOGY PTE LTD.
2023/00359	ENVISION ENERGY CO., LTD	ENVISION ENERGY TECHNOLOGY PTE LTD.
2023/00358	ENVISION ENERGY CO., LTD	ENVISION ENERGY TECHNOLOGY PTE LTD.
2023/09367	ENVISION ENERGY CO., LTD	ENVISION ENERGY TECHNOLOGY PTE LTD.
2023/09552	ENVISION ENERGY CO., LTD	ENVISION ENERGY TECHNOLOGY PTE LTD.
2019/03918	MAS MENARGUES, JESUS MANUEL	PROTEKU EUROPE, S.L.
2021/09986	CARDIOR PHARMACEUTICALS GMBH	NOVO NORDISK A/S
2021/05741	BOEHRINGER INGELHEIM INTERNATIONAL GMBH	ABLYNX N.V.
2012/01410	TOTALENERGIES SE	TOTALENERGIES ONETECH
2023/06059	MORPHOSYS AG	INCYTE CORPORATION
2021/00296	MORPHOSYS AG	INCYTE CORPORATION
2021/00459	MORPHOSYS AG	INCYTE CORPORATION
2021/00970	MORPHOSYS AG	INCYTE CORPORATION
2021/00460	MORPHOSYS AG	INCYTE CORPORATION
2019/00483	MORPHOSYS AG	INCYTE CORPORATION
2019/03302	MORPHOSYS AG	INCYTE CORPORATION
2018/01052	MORPHOSYS AG	INCYTE CORPORATION
2018/08647	MORPHOSYS AG	INCYTE CORPORATION
2019/07369	MORPHOSYS AG	INCYTE CORPORATION
2020/07210	MORPHOSYS AG	INCYTE CORPORATION
2020/07277	MORPHOSYS AG	INCYTE CORPORATION
2017/07867	MORPHOSYS AG	INCYTE CORPORATION
2014/01835	MORPHOSYS AG	INCYTE CORPORATION
2014/01834	MORPHOSYS AG	INCYTE CORPORATION
2022/00018	NINGXIA HUHUI PHARMACEUTICAL TECHNOLOGY CO., LTD.	HANGZHOU HENGHUI ELEMENT NEW MATERIALS CO., LTD.
2023/01965	HAINAN UNIVERSITY and SHIJIAZHANG TIEDAO UNIVERSITY	GUANGZHOU METRO DESIGN & RESEARCH INSTITUTE CO., LTD.

Application Number	Assignor	Assignee
2013/02982	OBERTHUR FIDUCIAIRE SAS	VHP SECURITY PAPER B.V.
2013/02060	QUANTUMZET TECHNOLOGIES (PTY) LTD	QUANTUMZET HOLDINGS (PTY) LTD
2022/06766	OBERTHUR FIDUCIAIRE SAS	VHP SECURITY PAPER B.V.
2018/06946	MILLENNIUM PHARMACEUTICALS, INC.	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2023/07339	MONTE ROSA THERAPEUTICS, INC.	MONTE ROSA THERAPEUTICS AG
2015/07858	MILLENNIUM PHARMACEUTICALS, INC.	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2017/07158	MILLENNIUM PHARMACEUTICALS, INC.	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2013/08168	MILLENNIUM PHARMACEUTICALS, INC.	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2013/08069	MILLENNIUM PHARMACEUTICALS, INC.	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2022/05226	SUMITOMO PHARMA CO., LTD.	NIHON MEDI-PHYSICS CO., LTD.
2017/07310	MILLENNIUM PHARMACEUTICALS, INC.	TAKEDA PHARMACEUTICAL COMPANY LIMITED
2011/04124	TOTALENERGIES SE	TOTALENERGIES ONETECH
2012/04008	TOTALENERGIES SE	TOTALENERGIES ONETECH
2012/01409	TOTALENERGIES SE	TOTALENERGIES ONETECH
2020/04578	ULTRA SAFE NUCLEAR CORPORATION	KRONOS MMR INC.
2024/07516	LOCANABIO, INC.	REGENERON PHARMACEUTICALS, INC.
2021/09986	CARDIOR PHARMACEUTICALS GMBH	NOVO NORDISK A/S

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2022/12725	DIGITAL GRID RESEARCH INSTITUTE, CHINA SOUTHERN POWER GRID.	CSG DIGITAL POWER GRID RESEARCH INSTITUTE CO., LTD.
2020/05520	NEUROPORE THERAPIES, INC.	EOS THERAPIES INC.
2020/06769	CATERPILLAR UNDERGROUND MINING PTY. LTD.	CATERPILLAR INC.
2024/05972	CATERPILLAR UNDERGROUND MINING PTY. LTD.	CATERPILLAR INC.
2024/05973	CATERPILLAR UNDERGROUND MINING PTY. LTD.	CATERPILLAR INC.
2019/04929	JI XING PHARMACEUTICALS HONG KONG LIMITED	CORXEL PHARMACEUTICALS HONG KONG LIMITED
2018/08566	TOTAL SA	TOTAL SE
2018/08566	TOTAL SE	TOTALENERGIES SE
2016/03815	TOTAL RAFFINAGE CHIMIE	TOTALENERGIES RAFFINAGE CHIMIE
2019/08309	TOTAL RAFFINAGE CHIMIE	TOTALENERGIES RAFFINAGE CHIMIE
2022/12623	GE VIDEO COMPRESSION, LLC	DOLBY VIDEO COMPRESSION, LLC

Application Number	In the name of	New name
2024/05136	GE VIDEO COMPRESSION, LLC	DOLBY VIDEO COMPRESSION, LLC
2022/12624	GE VIDEO COMPRESSION, LLC	DOLBY VIDEO COMPRESSION, LLC
2012/01410	TOTAL MARKETING SERVICES	TOTALENERGIES MARKETING SERVICES
2012/01410	TOTALENERGIES MARKETING SERVICES	TOTALENERGIES SE
2023/08274	TIGER & BEAN S.L.U.	TIGER & BEAN S.L.
2024/07291	BASF AGRICULTURAL SOLUTIONS SEED US LLC	BASF AGRICULTURAL SOLUTIONS US LLC
2024/08017	BASF AGRICULTURAL SOLUTIONS SEED US LLC	BASF AGRICULTURAL SOLUTIONS US LLC
2020/01583	SCIENTIFIC ROETS (PTY) LTD	SCIENTIFIC ROOTS (PTY) LTD
2022/06326	JI XING PHARMACEUTICALS HONG KONG LIMITED	CORXEL PHARMACEUTICALS HONG KONG LIMITED
2013/02060	TRENDTECH (PTY) LTD	QUANTUMZET TECHNOLOGIES (PTY) LTD
2011/04124	TOTAL MARKETING SERVICES	TOTALENERGIES MARKETING SERVICES
2011/04124	TOTALENERGIES MARKETING SERVICES	TOTALENERGIES SE
2012/04008	TOTAL RAFFINAGE MARKETING	TOTALENERGIES MARKETING SERVICES
2012/04008	TOTALENERGIES MARKETING SERVICES	TOTALENERGIES SE
2012/01409	TOTAL MARKETING SERVICES	TOTAL SE
2012/01409	TOTAL SE	TOTALENERGIES SE

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
2022/09626	WITHDRAWN	28/02/2025
2023/04351	WITHDRAWN	07/03/2025
2025/01346	WITHDRAWN	10/03/2025
2025/01344	WITHDRAWN	10/03/2025
2024/00555	WITHDRAWN	25/02/2025
2024/02439	WITHDRAWN	05/03/2025
2024/09191	WITHDRAWN	05/02/2025

APPLICATION FOR RESTORATION OF A LAPSED PATENT

THE PATENTS ACT, No. 57 OF 1978

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

Notice is hereby given that **MIDESH GLOBAL (PTY) LTD** whose address for service is **ADAMS & ADAMS, PRETORIA** has applied to the registrar for the restoration of Patent No **2018/04429** entitled **RECONFIGURABLE CARRYING CASE** dated **02/07/2018**, which lapsed on **02/07/2022** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **Herakles and Eurenco** whose address for service is **ADAMS & ADAMS, PRETORIA** has applied to the registrar for the restoration of Patent No **2015/07430** entitled **METHOD FOR OBTAINING SOLUTIONS OF OTA IN A CONCENTRATED SULPHURIC ACID MEDIUM; SAID SOLUTIONS; AND METHOD FOR PREPARING ONTA** dated **04/04/2014**, which lapsed on **04/04/2023** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **Pieter Nicolaas VAN DER MERWE** whose address for service is **ADAMS & ADAMS, PRETORIA** has applied to the registrar for the restoration of Patent No **2012/05919** entitled **PORTABLE BODY SCRUBBER** dated **06/08/2012**, which lapsed on **06/08/2019** 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 **O'TOOLE, Daniel, S** whose address for service is **TABERER ATTORNEYS INC, CAPE TOWN** has applied to the registrar for the restoration of Patent No **2022/10910** entitled **HOT AND COLD SECTION DRONE DOCKING STATION TEMPERATURE CONTROLLED DEVICE** dated **19/04/2021**, which lapsed on **19/04/2024** 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 **O'TOOLE, Daniel, S** whose address for service is **TABERER ATTORNEYS INC, CAPE TOWN** has applied to the registrar for the restoration of Patent No **2022/10688** entitled **EXPANDING FLOOR/ACCORDION DRONE DOCKING STATION** dated **19/04/2021**, which lapsed on **19/04/2024** 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 **TECNIMEDE-SOCIEDADE TECNICO-MEDICINAL, SA** whose address for service is **HAHN & HAHN, HATFIELD** has applied to the registrar for the restoration of Patent No **2023/11560** entitled **IMMEDIATE RELEASE FIXED-DOSE COMBINATION OF MEMANTINE AND DONEPEZIL** dated **29/05/2020**, which lapsed on **31/07/2024** 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 **MONSANTO TECHNOLOGY LLC** whose address for service is **DM KISCH INC, JOHANNESBURG** has applied to the registrar for the restoration of Patent No **2020/01771** entitled **NOVEL CHIMERIC INSECTICIDAL PROTEINS TOXIC OR INHIBITORY TO LEPIDOPTERAN PESTS** dated **15/10/2015**, which lapsed on **15/10/2020** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **BAUER Maschinen GmbH** whose address for service is **DR GERNTHOLTZ INC, CAPE TOWN** has applied to the registrar for the restoration of Patent No **2020/05475** entitled **UNDERWATER MINING DEVICE AND METHOD FOR MINING** dated **25/04/2019**, which lapsed on **25/04/2022** owing to the non-payment of the prescribed renewal fee.

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

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: METSO FINLAND OY Rauhalaipuisto 9, Espoo, 02230. Request permission to amend the specification of letters patent no: **2012/07548** of **08/10/2012** for **WEAR PART, PROCESSING APPARATUS AND PROCESSING PLANT FOR MINERAL MATERIAL.**

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: MICHAEL JOHN FLANAGAN 6 North Ridge Villas, 30 Washington Drive 1709 Northcliff, Ext 25., RORY MICHAEL FLANAGAN Unit 33, Gordon Ridge, c/o Gordon Road & Lange Avenue 1709 Florida Glen. Request permission to amend the specification of letters patent no: **2021/00696** of **01/02/2021** for **MATERIAL FEED PROCESS AND ASSEMBLY FOR A ROTARY MAGNETIC SEPARATOR.**

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: REGENERON PHARMACEUTICALS, INC. 777 Old Saw Mill River Road, Tarrytown New York 10591. Request permission to amend the specification of letters patent no: **2018/01673** of **23/09/2016** for **OPTIMIZED ANTI CD3 BISPECIFIC ANTIBODIES AND USES THEREOF.**

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

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

Registrar of Patents

Applicant: IMMUNITY PHARMA LTD. 28 Meron Street 9076424 Mevasseret Zion. Request permission to amend the specification of letters patent no: **2021/00587** of **27/01/2021** for **PEPTIDE COMPOUNDS AND THERAPEUTIC USES OF SAME.**

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

APPLICATIONS FOR CORRECTION IN TERMS OF SECTION 50

Applicant: LG ELECTRONICS, INC. 128, YEQUI-DAERO, YEONGDEUNGPO-GU SEOUL 07336 REPUBLIC OF KOREA. Request permission to correct or to amend any patent, application for a patent or document lodged in pursuance of such application or in the register of patent no:

2021/03932 a filing date of **08 June 2021** entitled **VIDEO CODING METHOD ON BASIS OF SECONDARY TRANSFORM, AND DEVICE FOR SAME.**

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

Any notice of opposition (on form no. 19) must be lodged at the Patent Office within 2 months from the date hereof.

Registrar of Patents

INSPECTION OF SPECIFICATIONS

A complete specification may, after acceptance is advertised, be inspected during office hours at the Patent Office, Pretoria, at a charge of **R4, 00**. Please note, that in terms of section 43 (3) if the acceptance of an application which claims priority in terms of section 31 (1) (c) is not published in terms of section 42 within 18 months from the earliest priority claimed from the relevant application in a convention country, it shall be opened to public inspection after the expiration of 18 months from the earliest priority so claimed.

COPIES OF DOCUMENTS

The Patent Office, Private Bag X400, Pretoria, supplies copies of all patent and trade mark documents at the following rate:

Photocopies: **R1, 00 per page**

COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF

Complete specifications in respect of the under mentioned applications for letters Patent have been accepted by the Registrar of Patents.

THE PATENTS ACT, 1978 (ACT NO. 57 OF 1978)

In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

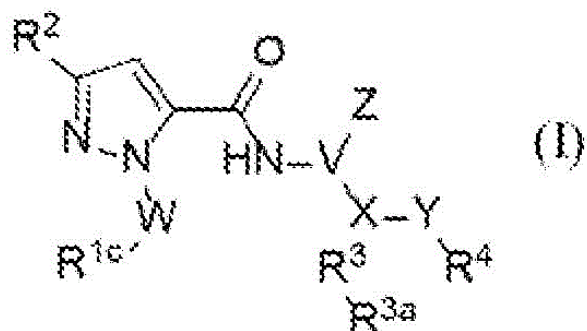
The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(43)** Date of acceptance. **(51)** Class. **(71)** Name of applicant(s). **(72)** Name of all inventors. **(33)** Country. **(31)** Number and **(32)** Date of convention application. **(54)** Title of invention. **(00)** Number of sheets.

Registrar of Patents

21: 2016/06320. 22: 2016/09/13. 43: 2025/01/10
51: A61K
71: BioCryst Pharmaceuticals, Inc.
72: KOTIAN, Pravin L., BABU, Yarlagadda S., WU, Minwan, CHINTAREDDY, Venkat R., KUMAR, V., Satish, ZHANG, Weihe
33: US 31: 61/949,808 32: 2014-03-07
54: HUMAN PLASMA KALLIKREIN INHIBITORS

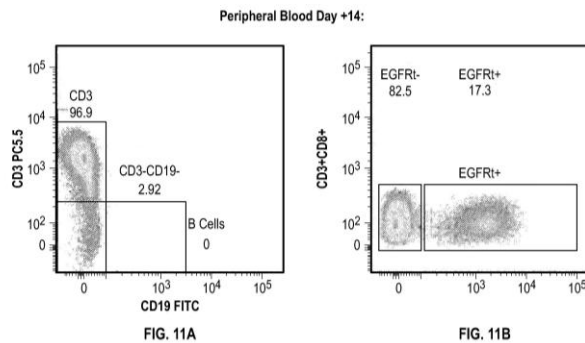
00: -
Disclosed are compounds of formula (I), as described herein, and pharmaceutically acceptable salts thereof. The compounds are inhibitors of plasma kallikrein. Also provided are pharmaceutical compositions comprising at least one compound of the invention, and methods involving use of the

compounds and compositions of the invention in the treatment and prevention of diseases and conditions characterized by unwanted plasma kallikrein activity.



21: 2016/07053. 22: 2016/10/13. 43: 2025/01/29
 51: A61K; C12N
 71: Seattle Children's Hospital (dba Seattle Children's Research Institute)
 72: JENSEN, Michael C.
 33: US 31: 61/977,751 32: 2014-04-10
54: DEFINED COMPOSITION GENE MODIFIED T-CELL PRODUCTS

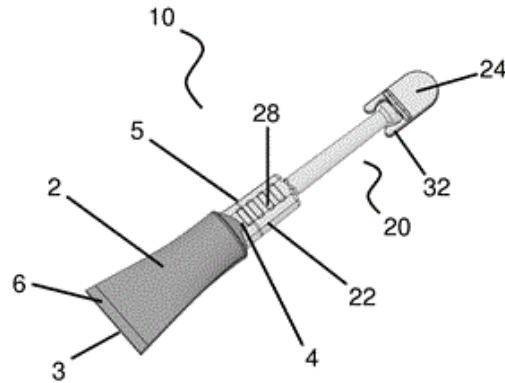
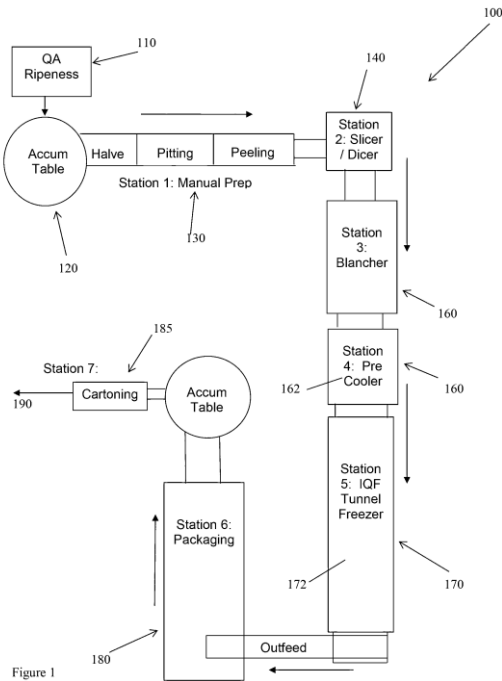
00: -
 Aspects of the invention described herein, concern approaches to make genetically modified T-cells comprising a chimeric antigen receptor for human therapy. In some alternatives, the methods utilize a selection and/or isolation of CD4+ and/or CD8+ T-cells from a mixed T-cell population, such as, peripheral blood or apheresis derived mononuclear cells. Once selected/isolated, the CD4+ and/or CD8+ T-cells are then activated, genetically modified, and propagated, preferably, in separate or isolated cultures in the presence of one or more cytokines, which support survival, engraftment and/or proliferation of the cells, as well as, preferably promoting or inducing the retention of cell surface receptors, such as CD62L, CD28, and/or CD27. Included herein are also methods of treatment, inhibition, amelioration, or elimination of a cancer by administering to a subject in need thereof, one or more types of the genetically engineered T-cells or compositions that comprise the genetically engineered T-cell prepared as described herein.



21: 2016/07735. 22: 2016/11/09. 43: 2025/03/05
 51: A23B; A23N
 71: NATURO INNOVATIONS PTY LTD
 72: HASTINGS, Jeffrey John
 33: AU 31: 2014901332 32: 2014-04-11

54: A PROCESS, APPARATUS AND SYSTEM FOR TREATING FRUITS OR VEGETABLES

00: -
 A process for treating fruits or vegetables to minimize browning upon subsequent processing, handling, and storage, the method comprising: (a) separating edible pulp tissue from inedible tissue of the fruit or vegetable; (b) blanching said edible pulp tissue in steam for a pre-determined blanching time period at a blanching pressure that is less than or equal to atmospheric pressure; (c) cooling the blanched pulp tissue and extracting residual heat from the blanched pulp tissue; (d) freezing the cooled pulp tissue to obtain at least partially frozen pulp tissue; wherein the frozen pulp tissue obtained from step (d) possesses substantially similar organoleptic properties as freshly separated pulp tissue in (a).



21: 2016/08839. 22: 2016/12/21. 43: 2025/01/20
 51: A61J; A61M; B65D
 71: BAYER ANIMAL HEALTH GMBH
 72: JÖRG HABIG, WILFRIED HINXLAGE
 33: EP 31: 14177936.3 32: 2014-07-22
54: TUBE WITH APPLICATION TIP
 00: -

The invention relates to a tube with an application tip (10) for a liquid or pasty medium, in particular medicinal product. The tube has a tube body (2) with an end (3) which can be closed or which is already closed and with an outlet end. The outlet end of the tube has a tube neck (5) with an outlet opening. The tube furthermore has an application tip (20) which is elongate in the longitudinal direction of the tube and which is connected to the outlet end of the tube and which has an inner duct which connects an inlet opening and an application opening. On the application opening of the application tip there is integrally formed a closure (24) which closes off the application opening. The application tip has a grip means (22).

21: 2017/08686. 22: 2017/12/20. 43: 2025/01/10
 51: A61K A61N
 71: NANOBIOTIX
 72: MARILL, Julie, POTTIER, Agnès, LEVY, Laurent
 33: EP 31: 15305810.2 32: 2015-05-28
54: NANOPARTICLES FOR USE AS A THERAPEUTIC VACCINE
 00: -

The present invention relates to the field of human health and more particularly concerns nanoparticles for use as a therapeutic vaccine in the context of radiotherapy in a subject suffering of a cancer, in particular of a metastatic cancer or of a liquid cancer.

21: 2018/04699. 22: 2018/07/13. 43: 2025/01/10
 51: A23L; A61K; A61P
 71: Société des Produits Nestlé S.A.
 72: SCHNEIDER, Nora, HAUSER, Jonas, DEONI, Sean, BARTFAL, Tamas
 33: EP(CH) 31: 15199752.5 32: 2015-12-14
 33: EP(CH) 31: 15199758.2 32: 2015-12-14
 33: EP(CH) 31: 15199769.9 32: 2015-12-14
 33: EP(CH) 31: 15199757.4 32: 2015-12-14
 33: EP(CH) 31: 15199764.0 32: 2015-12-14
54: COMPOSITIONS AND THEIR USE
 00: -

A synthetic nutritional composition comprising a vitamin for use to promote, support or optimise de novo myelination, in particular the de novo myelination trajectory, and/or brain structure, and/or brain connectivity, and/or intellectual potential and/or cognitive potential and/or learning potential and/or cognitive functioning in a subject, in particular a formula fed subject.

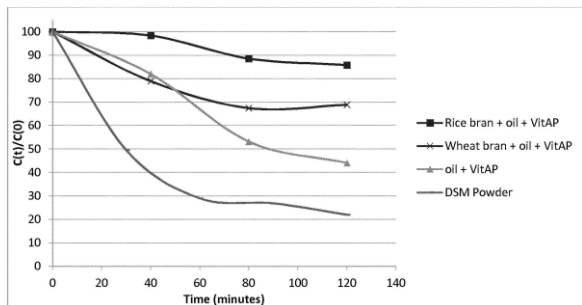
21: 2018/06047. 22: 2018/09/10. 43: 2025/01/29

51: A21D; A23K; A23L
 71: Société des Produits Nestlé S.A.
 72: MOCCAND, Cyril, SAGALOWICZ, Laurent,
 GALAFFU, Nicola, MICHEL, Martin, HABEYCH
 NARVAEZ, Edwin Alberto

33: EP(CH) 31: 16155184.1 32: 2016-02-11

54: VITAMIN COMPOSITION

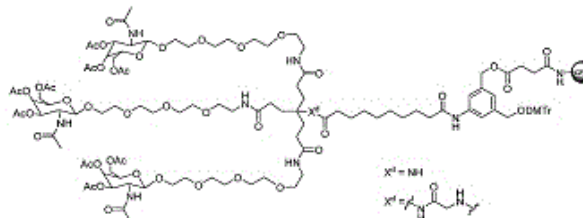
00: -
 A composition comprising: (i) a mixture containing a lipid-soluble vitamin dissolved in a lipid, and (ii) bran; wherein the mixture is absorbed into and/or adsorbed onto the bran and wherein the lipid does not originate from the bran. Also provided are processes for providing a stabilised vitamin composition.



21: 2018/06861. 22: 2018/10/15. 43: 2025/01/24
 51: C12N; A61K; C07C; C07D; C07F; C07H; C07J
 71: ARBUTUS BIOPHARMA CORPORATION
 72: HEYES, JAMES, HOLLAND, RICHARD J,
 MARTIN, ALAN D, WOOD, MARK
 33: US 31: 62/321,034 32: 2016-04-11
 33: US 31: 62/417,156 32: 2016-11-03
 33: US 31: 62/438,310 32: 2016-12-22

54: TARGETED NUCLEIC ACID CONJUGATE COMPOSITIONS

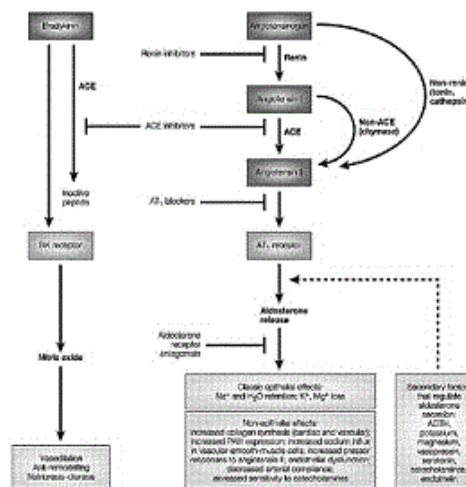
00: -
 The invention provides conjugates that comprise a targeting moiety, a nucleic acid, and optional linking groups as well as synthetic intermediates and synthetic methods useful for preparing the conjugates. The conjugates are useful to target therapeutic nucleic acids to the liver and to treat liver diseases including hepatitis (e.g. hepatitis B and hepatitis D).



21: 2018/07286. 22: 2018/10/31. 43: 2025/01/21
 51: C12N; A61P; A61K
 71: ALNYLAM PHARMACEUTICALS, INC.
 72: FOSTER, DONALD, BETTENCOURT, BRIAN,
 CHARISSE, KLAUS, HINKLE, GREGORY,
 KUCHIMANCHI, SATYANARAYANA, MAIER,
 MARTIN, MILSTEIN, STUART
 33: US 31: 62/001,731 32: 2014-05-22
 33: US 31: 62/047,978 32: 2014-09-09

54: ANGIOTENSINOGEN (AGT) IRNA COMPOSITIONS AND METHODS OF USE THEREOF

00: -
 The present invention relates to RNAi agents, e.g., double-stranded RNAi agents, targeting the angiotensinogen (AGT) gene, and methods of using such RNAi agents to inhibit expression of AGT and methods of treating subjects having an AGT-associated disorder, e.g., hypertension.



21: 2018/07871. 22: 2018/11/21. 43: 2025/01/29
 51: A61K
 71: LANTHEUS MEDICAL IMAGING, INC.
 72: ROBINSON, SIMON P, SIEGLER, ROBERT W,
 NGUYEN, NHUNG TUYET, ONTHANK, DAVID C,

ANKLEKAR, TARAKESHWAR VISHWANATH, VAN KIRK, CHARLES CHESTER

33: US 31: 15/461,469 32: 2017-03-16

33: US 31: 62/359,181 32: 2016-07-06

33: US 31: 15/602,580 32: 2017-05-23

54: METHODS FOR MAKING ULTRASOUND CONTRAST AGENTS

00: -

Provided herein are improved methods for preparing phospholipid formulations including phospholipid UCA formulations.

PG	PG + DPPC	PG + DPPC + MPEG5000	PG + DPPC + MPEG5000	PG + DPPC + MPEG5000
		DPPE	DPPE + DPPA	DPPE + DPPA
				+ 11.1 µg Ca ²⁺ /g



21: 2019/05790. 22: 2019/09/02. 43: 2025/01/29

51: A61K; C07K; C12N; A61P

71: I-MAB BIOPHARMA (HANGZHOU) CO., LTD

72: FANG, Lei, WANG, Zhengyi, GUO, Bingshi, ZANG, Jingwu, JIANG, Wenqing, WANG, Yongqiang

33: CN 31: PCT/CN2017/074365 32: 2017-02-22

33: CN 31: PCT/CN2017/088570 32: 2017-06-16

54: ANTI-LAG-3 ANTIBODIES AND USES THEREOF

00: -

The present disclosure provides antibodies that bind Lymphocyte Activation Gene-3 (LAG-3). Also provided are methods of stimulating an immune response, inhibiting growth of tumor cells, and treating an autoimmune, inflammatory, or viral disease.

21: 2019/06608. 22: 2019/10/08. 43: 2025/01/21

51: A61K; A61P; C07K; C12N

71: RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL

72: RODINO-KLAPAC, LOUISE, MENDELL, JERRY R

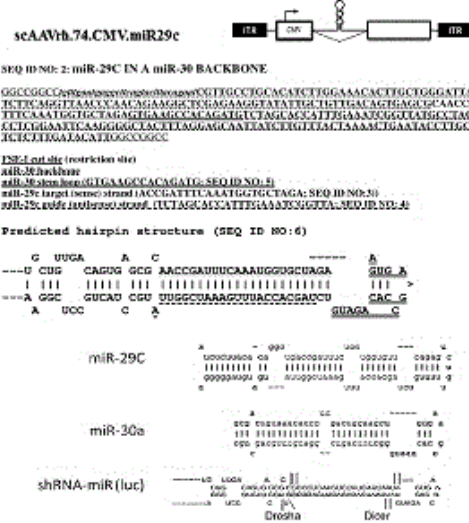
33: US 31: 62/473,253 32: 2017-03-17

33: US 31: 62/323,163 32: 2016-04-15

54: ADENO-ASSOCIATED VIRUS VECTOR DELIVERY OF MICRO-DYSTROPHIN TO TREAT MUSCULAR DYSTROPHY

00: -

The invention provides for recombinant AAV vectors comprising a miniaturized human micro-dystrophin gene and methods of using the recombinant vectors to reduce or prevent fibrosis in subjects suffering from muscular dystrophy.



21: 2019/07248. 22: 2019/10/31. 43: 2025/02/11

51: H01M

71: STOREN TECHNOLOGIES INC.

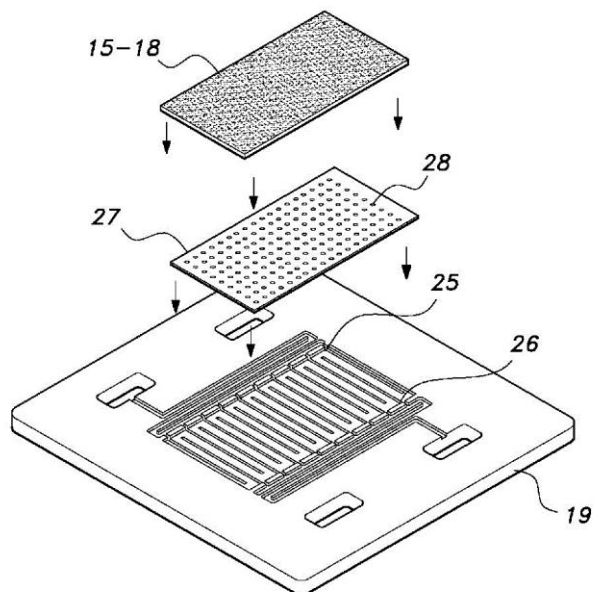
72: D'ANZI, Angelo, BROVERO, Carlo Alberto, TAPPI, Maurizio, PIRACCINI, Gianluca

33: US 31: 62/476,945 32: 2017-03-27

54: MULTIPOINT ELECTROLYTE FLOW FIELD EMBODIMENT FOR VANADIUM REDOX FLOW BATTERY

00: -

A flow battery of the type comprising a first tank for an anode electrolyte, a second tank for a cathode electrolyte, respective hydraulic circuits provided with corresponding pumps for supplying electrolytes to specific planar cells, provided with bipolar plates having multipoint flow distributors on the two mutually opposite faces for the homogenous conveyance of said electrolytes, mutually separated by proton exchange membranes and electrodes, wherein said planar cells are mutually aligned and stacked so as to constitute a flow battery stack.



21: 2019/07867. 22: 2019/11/27. 43: 2025/03/06
51: C07K

71: NOVASSAY SA

72: KRICEK, Franz, SKOUTERIS, George

33: US 31: 62/511,774 32: 2017-05-26

**54: VOLTAGE-GATED CALCIUM CHANNEL
AUXILLIARY SUBUNIT ALPHA 2 DELTA AND
USES THEREOF**

00: -

The Voltage-Gated Calcium Channel auxiliary subunit a2d-1 is the target/receptor of gabapentinoid compounds known to exert therapeutic effects as for example in Epilepsy and Neuropathic pain.

Gabapentinoids are known to exert their action via binding Arginine (R) within an RRR motif located at the N-terminal of the a2d-1. The present invention describes a novel binding site for gabapentinoids which is located within the VGCC_a2 domain and within an IKAK amino acid sequence of the a2d-1. Such newly identified amino acid binding site finds utility in the identification and characterization of novel compounds with therapeutic properties in Neuropathic Pain and in other disorders and conditions in which a2d-1 is involved in.

21: 2020/02762. 22: 2020/05/14. 43: 2025/02/26
51: A61K; C07D

71: TEIJIN PHARMA LIMITED

72: BARTBERGER, Michael D., CHAKKA,
Nagasree, GAO, Hua, GUZMAN-PEREZ, Angel,

HORNE, Daniel B., HUA, Zihao, KIEFFER,
Madeleine, LIN, Daniel C.H., MILGRAM, Benjamin
Charles, PANTELEEV, Jane, SCHENKEL, Laurie,
STELLWAGEN, John, WEISS, Matthew, WHITE,
Ryan D., ZHAO, Wei

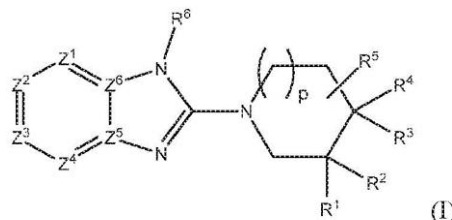
33: US 31: 62/574,465 32: 2017-10-19

33: US 31: 62/671,090 32: 2018-05-14

**54: BENZIMIDAZOLE DERIVATIVES AND THEIR
USES**

00: -

The present invention relates to inhibitors of Transient Receptor Potential Channel 6 (TRPC6) protein activity. The present invention provides a compound of formula (I) or a pharmaceutically acceptable salt thereof, pharmaceutical compositions comprising a compound of the invention, a method for manufacturing compounds of the invention and therapeutic uses thereof.



21: 2020/05255. 22: 2020/08/24. 43: 2025/01/13

51: B60K; B60L; H01M

71: Sandvik Mining and Construction Oy

72: HUFF, Brian R., HICKEY, Kyle

33: US 31: 15/908,802 32: 2018-02-28

**54: METHOD AND SYSTEM FOR MOUNTING AND
DISMOUNTING BATTERIES IN A VEHICLE**

00: -

A method and system for swapping batteries in an electric vehicle is disclosed. The method includes dismounting a first battery assembly, moving to a second battery assembly and mounting the second battery assembly onto the vehicle. Mounting and dismounting are accomplished by an onboard mounting and dismounting system. The method can be used in a zero infrastructure environment such as an underground mine since mounting and dismounting are accomplished by components on the vehicle itself. An auxiliary battery pack powers the vehicle during between dismounting a battery pack and mounting another battery pack.

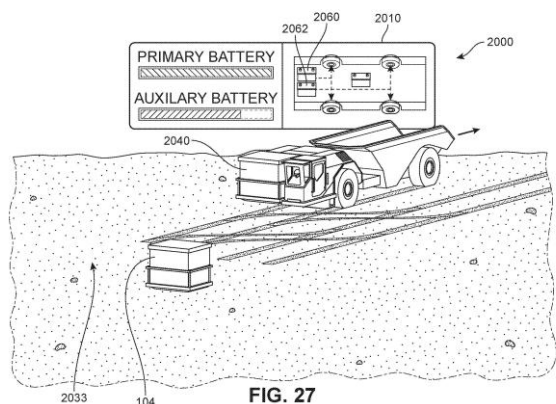


FIG. 27

21: 2020/05507. 22: 2020/09/03. 43: 2025/01/29

51: A61K; C07D; A61P

71: Novartis AG

72: DAUPHINAIS, Maxime, JAIN, Rama, KOESTER, Dennis Christofer, MANNING, James R., MARX, Vanessa, POON, Daniel, WAN, Lifeng, WANG, Xiaojing Michael, YIFRU, Aregahegn, ZHAO, Qian

33: US 31: 62/636,378 32: 2018-02-28

54: 10-(DI(PHENYL)METHYL)-4-HYDROXY-8,9,9A,10-TETRAHYDRO-7H-PYRROLO[1',2':4,5]PYRAZINO[1,2-B]PYRIDAZINE-3,5-DIONE DERIVATIVES AND RELATED COMPOUNDS AS INHIBITORS OF THE ORTHOMYXOVIRUS REPLICATION FOR TREATING INFLUENZA

00: -

The present disclosure refers to 10-(di(phenyl)methyl)-4-hydroxy-8,9,9a,10-tetrahydro-7H-pyrrolo[1';2':4,5]pyrazino[1,2-b]pyridazine-3,5-dione derivatives and related compounds of Formula (A) as inhibitors of the orthomyxovirus replication for treating influenza. A preferred specific compound is e.g. (9aR,10S)-10-((S)-(4-fluorophenyl)(3-(trifluoromethyl)phenyl)methyl)-4-hydroxy-8,9,9a,10-tetrahydro-7H-pyrrolo[1';2':4,5]pyrazino[1,2-b]pyridazine-3,5-dione (example 1).

21: 2020/05521. 22: 2020/09/04. 43: 2025/01/24

51: A61K; C07C

71: SCF Pharma Inc.

72: FORTIN, Samuel C.

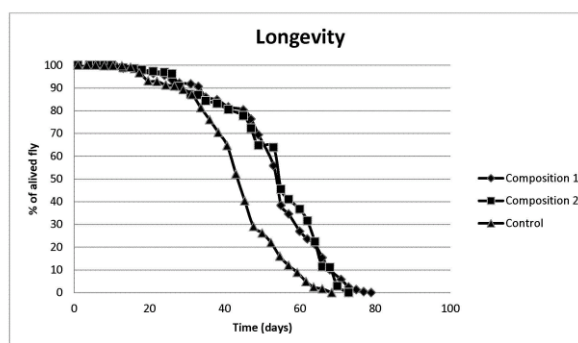
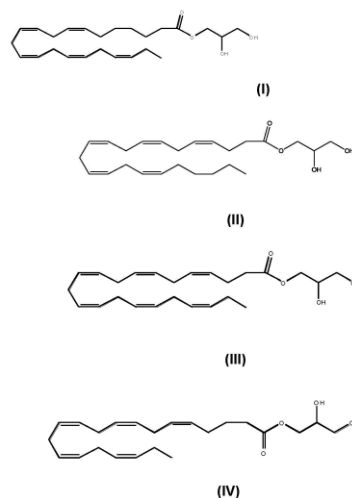
33: US 31: 62/627,244 32: 2018-02-07

54: POLYUNSATURATED FATTY ACID MONOGLYCERIDES, COMPOSITIONS, METHODS AND USES THEREOF

00: -

There are provided various compounds and compositions comprising polyunsaturated fatty acid monoglycerides and derivatives thereof. These

compounds and compositions can be useful for increasing the life span of a subject; for increasing the disability-free life expectancy, for slowing down the ageing process of a subject; for increasing the mitochondrial oxphos of a subject; for decreasing the mitochondrial LEAK of a subject; for increasing the mitochondrial RCR or coupling efficiency of a subject; and for optimizing the mitochondrial functions of a subject. These compounds and compositions comprise at least one compound chosen from.



21: 2020/06432. 22: 2020/10/16. 43: 2025/01/21

51: C07K

71: ADAPTIMMUNE LIMITED

72: TRIBBLE, NICHOLAS, LAWRENCE, WILLIAM, BAGG, ELEANOR

33: GB 31: 1606177.2 32: 2016-04-08

54: T CELL RECEPTORS

00: -

The present invention relates to T cell receptors (TCRs) which bind the HLA-A*0201 restricted peptide GVDGREHTV (SEQ ID NO: 1) derived

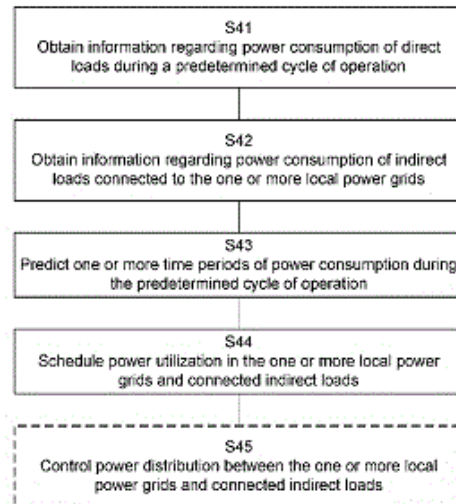
from the MAGE-A4 protein. The TCRs of the invention demonstrate excellent specificity profiles for this MAGE epitope. Also provided are nucleic acids encoding the TCRs, cells engineered to present the TCRs, cells harbouring expression vectors encoding the TCRs and pharmaceutical compositions comprising the TCRs, nucleic acids or cells of the invention.

21: 2020/06585. 22: 2020/10/22. 43: 2025/01/21
51: H02J

71: EPIROC ROCK DRILLS AKTIEBOLAG
72: LINDKVIST, ANDERS, SVENSSON, MARTIN, SVEDLUND, ERIK, WESTERGÅRD, VICTOR
33: SE 31: 1850849-9 32: 2018-07-04

54: METHOD AND ARRANGEMENT FOR MANAGING POWER CONSUMPTION IN A MINE

00: -
The present invention relates to a method and arrangement for managing power consumption in one or more local power grids comprised in corresponding parts of a mine environment, the one or more local power grids connected to a main power grid. The method comprises obtaining information regarding expected power consumption of direct loads during a predetermined cycle of operation in the one or more local power grids, wherein the direct loads comprise one or more mining consumers connected to the one or more local power grids and obtaining information regarding expected power consumption of indirect loads when connected to the one or more local power grids, wherein the indirect loads comprise one or more batteries for use in respective battery operated mining machines. The method further comprises predicting one or more time periods of high or low power consumption during the predetermined cycle of operation, wherein high power consumption corresponds to a power consumption above a predetermined peak power consumption indicating threshold and low power consumption corresponds to a power consumption below a predetermined surplus power indicating threshold. Power utilization is scheduled for the one or more local power grids and connected indirect loads during the predicted one or more time periods.

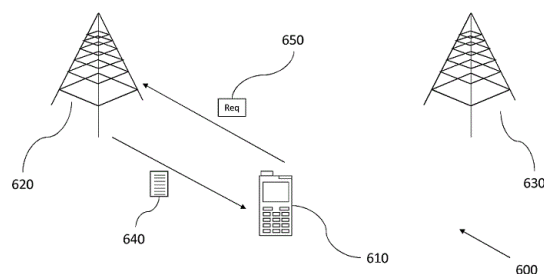


21: 2020/06838. 22: 2020/11/02. 43: 2025/01/10
51: H04W

71: NOKIA TECHNOLOGIES OY
72: KOZIOL, Dawid, HELMERS, Hakon

54: IMPROVING CELL ACCESS PROCEDURE

00: -
A method comprising: detecting at a device associated with a first public land mobile network, a cell; receiving, for each of a plurality of public land mobile networks supported by the cell, an indication as to whether or not the cell is available for standalone access for that public land mobile network; and determining, in dependence upon the indications and based on the first public land mobile network, whether to request standalone access of the cell.



21: 2020/06879. 22: 2020/11/04. 43: 2025/03/06
51: C12N

71: HEINEKEN SUPPLY CHAIN B.V.
72: DE VRIES, Arthur Roelof Gorter, KOSTER, Charlotte Catharina, DARAN, Jean-Marc Georges, GEERTMAN, Jan-Maarten, KUIJPERS, Niels Gerard Adriaan

33: NL 31: 2020912 32: 2018-05-11

54: IDENTIFICATION OF RARE PRODUCTS OF CROSSING ORGANISMS

00: -

The invention relates to methods for identifying a hybrid organism, based on staining of parent cells with a dye, preferably a fluorescent dye. A preferred dye is a succinimidyl ester-coupled dye. The invention further relates to the resulting hybrid organism, preferably an interspecies hybrid organism, that is labelled with a dye.

21: 2020/07125. 22: 2020/11/16. 43: 2025/01/10

51: D02G

71: MERMET

72: DAMOUR, François-Xavier

33: FR 31: 1853527 32: 2018-04-20

33: FR 31: 1858616 32: 2018-09-21

54: COMPOSITE YARN, MANUFACTURING PROCESS AND TEXTILE SURFACE COMPRISING SUCH A YARN

00: -

A composite yarn comprising a continuous multifilament core yarn incorporated in a matrix is characterised in that the matrix comprises at least one polymer material and at least one reinforcing filler, the reinforcing filler being formed from functionalized particles, said particles having a median size (d_{v50}) of less than 40 μm . A process for manufacturing such a composite yarn, comprises at least one step of depositing, by coating or extrusion, a matrix comprising a polymer and a reinforcing filler, onto a core yarn. A textile surface comprises at least one such composite yarn.

21: 2021/00034. 22: 2021/01/04. 43: 2025/01/14

51: B01D; F02M

71: PROPULSA INNOVATIONS INC.

72: DUMAIS, DENIS

33: US 31: 62/681,948 32: 2018-06-07

54: AIR FILTRATION SYSTEM FOR COMBUSTION ENGINE AND COMBUSTION ENGINE INCLUDING SAME

00: -

The present disclosure relates to an air filtration system comprising a filter housing defining a collection chamber and comprising an air inlet, an air outlet and a cleaning assembly opening in fluid communication with the collection chamber. The system also comprises a filter support mounted to

the filter housing with each one of the air inlet and the air outlet being located on a respective side of the filter support; and a filter cleaning assembly mounted to the filter housing and comprising an actuation system; and a diaphragm assembly at least partially covering the filter cleaning opening. The diaphragm assembly vibrates upon actuation of the actuation system so as to displace air in the collection chamber to remove particulate matter from a filter engaged with the filter support. The present disclosure also concerns a combustion engine comprising an air filtration system and a method for cleaning an air filtration system.

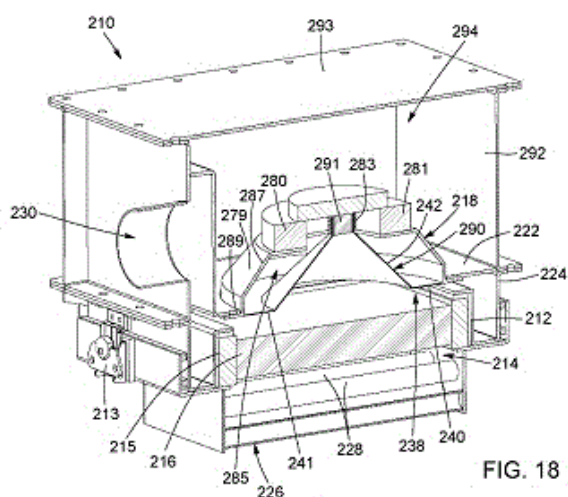


FIG. 18

21: 2021/00231. 22: 2021/01/13. 43: 2025/01/31

51: A61K A61P A23L

71: SYNFORMULAS GMBH

72: FISCHER, Clemens

33: EP 31: 18179382.9 32: 2018-06-22

54: NON-VIABLE BIFIDOBACTERIUM BIFIDUM BACTERIA AND USES THEREOF

00: -

The present invention relates to non-viable bacteria of the *Bifidobacterium bifidum* strain SYN-HI-001 deposited under deposit No. DSM 24514, or one or more fragments thereof, for use in therapy, particularly for use in treating a gastrointestinal disorder, such as irritable bowel syndrome. Furthermore, the present invention relates to a composition comprising, as an active ingredient, said non-viable bacteria for use in therapy, particularly for use in treating a gastrointestinal disorder. Also, the present invention relates to a method of preparing non-viable bacteria of the *Bifidobacterium bifidum*

strain SYN-HI-001 deposited under deposit No. DSM 24514, or one or more fragments thereof, and to bacteria obtained by the inventive method for use in therapy, particularly for use in treating a gastrointestinal disorder.

21: 2021/00235. 22: 2021/01/13. 43: 2025/01/24

51: A61K; A61P; C07K

71: Eli Lilly and Company

72: ABRAHAM, Milata Mary, ABURUB, Aktham, ALSINA-FERNANDEZ, Jorge, BROWN, Robert Andrew, CABRERA, Over, COSKUN, Tamer, CUMMINS, Robert Chadwick, DATTA-MANNAN, Amita, ELSAYED, Mohamed Elsayed Hamed, LAI, Xianyin, PATEL, Phenil Jayantilal, QU, Hongchang, SLOOP, Kyle Wynn, TRAN, Thi Thanh Huyen, WALLIS, James Lincoln, WILLARD, Francis Stafford

33: US 31: 62/702,072 32: 2018-07-23

54: GIP/GLP1 CO-AGONIST COMPOUNDS

00: -

The present invention relates to compounds having activity at both the human glucose-dependent insulinotropic polypeptide (GIP) and glucagon-like peptide-1 (GLP-1) receptors. The present invention also relates to compounds having an extended duration of action at each of these receptors.

Furthermore, the present invention relates to compounds that may be administered orally. Compounds may be useful in the treatment of type 2 diabetes mellitus ("T2DM"). Also, the compounds may be useful in the treatment of obesity.

21: 2021/00384. 22: 2021/01/19. 43: 2025/01/29

51: C12N A01H A61K C07K C12P

71: ARAMIS BIOTECHNOLOGIES INC.

72: LAVOIE, Pierre-Olivier, LORIN, Aurélien, DOUCET, Alain, D'AOUST, Marc-André, COUTURE, Manon

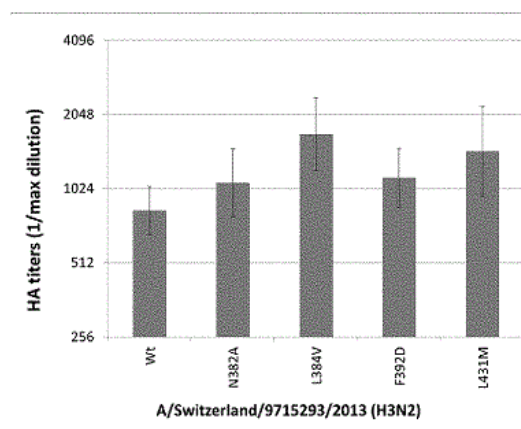
33: US 31: 62/690,780 32: 2018-06-27

54: INFLUENZA VIRUS HEMAGGLUTININ MUTANTS

00: -

The present invention relates to the production of modified influenza viral proteins in plants. More specifically, the present invention relates to producing and increasing influenza virus-like particle (VLP) production in plants, wherein the VLPs comprise the modified influenza viral proteins, such as modified influenza hemagglutinin (HA). The HA protein may comprising an amino acid sequence comprising at least one substitution when compared

to a corresponding wildtype amino acid sequence. Further provided are nucleic acid encoding the modified HA protein. Furthermore methods of producing an influenza virus like particle (VLP) and methods of increasing yield of production of an influenza virus like particle (VLP) in a plant, portion of a plant, or a plant cell, are also provided.



21: 2021/00968. 22: 2021/02/12. 43: 2025/01/28

51: B62D

71: Faymonville Distribution AG, Cometto S.p.A.

72: LIPPI, Fabrizio, FICKERS, Alexander, MACAGNO, Luca, GIORDANO, Gabriele, ARNAUDO, Gabriele, FRONI, Francesco

33: LU 31: 101640 32: 2020-02-14

54: FREIGHT VEHICLE WITH DRIVER'S CAB

00: -

A freight vehicle (1) has a frame (10) defining a support surface (11) for the goods (2) to be transported, a plurality of rubberised wheel assemblies (13) with suspensions (14), the height of which can be adjusted to shift the support surface (11) between a lowered loading position and a raised transport position, and a driver's cab (12) arranged beneath said support surface (11); the cab (12) being coupled to, and overhanging, the frame (10) by means of an articulated quadrilateral transmission unit (20) and being shifted by pneumatic actuators (30) configured to vertically move the whole cab (12) in relation to the support surface (11) between two extreme end positions, one approaching the support surface (11) and one spaced apart from said support surface (11), and to arrange the cab (12) in a cushioned intermediate position for the transport of the goods (2).

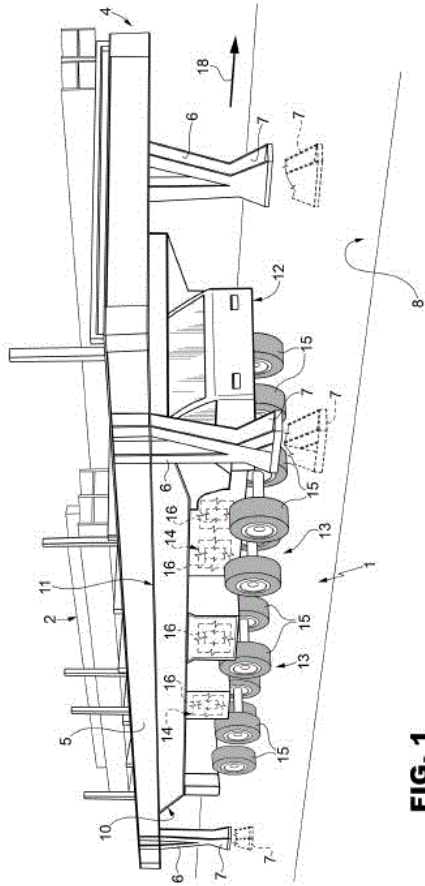
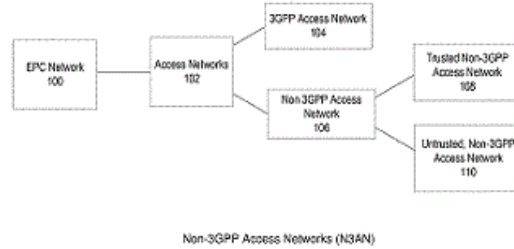


FIG. 1



21: 2021/02284. 22: 2021/04/06. 43: 2025/02/12
51: H02G

71: EATON INTELLIGENT POWER LIMITED
72: PLATT, Joseph, Edward, PERNOT, Matthew, Thomas, LEDGERWOOD, Adam Douglas, KHOKLE, Himanshu Gangadhar
33: US 31: 16/150,129 32: 2018-10-02

54: CABLE GLAND COMPRESSION LIMITER
00: -

A cable gland assembly includes a gland nut defining a longitudinal axis. The gland nut includes an interior wall defining a gland nut opening and the interior wall includes a stop. A bushing is disposed within the gland nut opening proximate the stop. The bushing defines a bushing opening configured to receive a cable therein. A sleeve is moveably disposed within the gland nut opening adjacent the bushing. The cable gland assembly also includes a body defining a body opening configured to receive at least a portion of the cable therein. The body is configured to couple to the gland nut, and upon tightening of the gland nut to the body, the gland nut moves along the longitudinal axis compressing the bushing between the gland nut and the sleeve and around the cable. When the sleeve engages with the stop, further compression of the bushing is restricted.

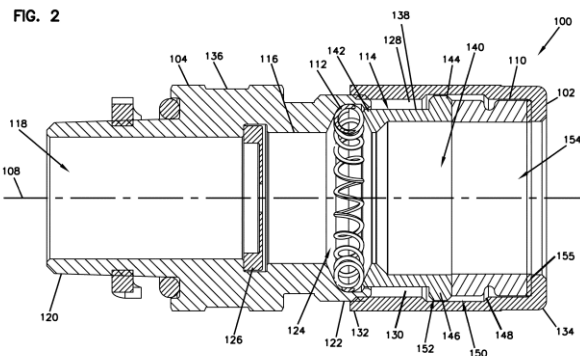


FIG. 2

21: 2021/01446. 22: 2021/03/03. 43: 2025/01/29
51: H04W

71: NOKIA TECHNOLOGIES OY
72: LIU, Jennifer

33: US 31: 62/716,887 32: 2018-08-09

54: METHOD AND APPARATUS FOR SECURITY REALIZATION OF CONNECTIONS OVER HETEROGENEOUS ACCESS NETWORKS

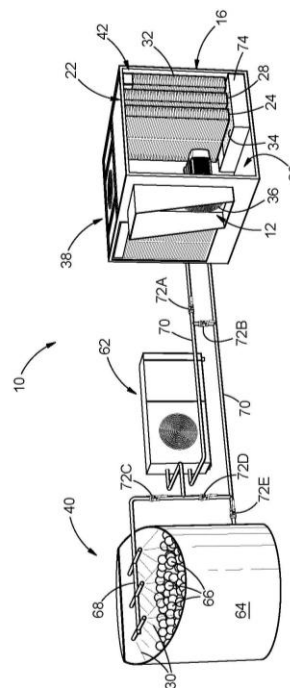
00: -

This application relates to session establishment by user equipment over a plurality of heterogenous access networks. In one aspect, the heterogenous access networks may include 3GPP and non-3GPP access networks (106). The non-3GPP access networks (106) may include one or more non-3GPP trusted access networks (108) or one or non-3GPP, non-trusted access networks (110).

21: 2021/04397. 22: 2021/06/25. 43: 2025/02/11

51: F24F
 71: FAFCO
 72: VERMEULEN, Christoffel Johannes
 33: ZA 31: 2019/00650 32: 2019-01-31
54: HYBRID AIR COOLING SYSTEM AND METHOD

00: -
ABSTRACT This invention relates to a hybrid air cooling system 10 comprising a primary inlet 12 for receiving a primary air stream 14, a primary outlet 16 for supplying a conditioned air stream 18 to a conditioned space, and a primary air flow passage 20 extending between the primary inlet and outlet 12, 16. The system 10 further comprises a primary heat exchange means 22, disposed in the primary air flow passage 20, which is adapted to permit the primary air stream 14 to operatively pass therethrough, to extract heat energy from the primary air stream 14 as it passes therethrough and thereby form the conditioned air stream 18. The primary heat exchange means 22 includes a first indirect heat exchange element 24 utilising a first coolant 26 for extracting the heat energy from the primary air stream 14, a second indirect heat exchange element 28 utilising a second coolant 30 for extracting the heat energy from the primary air stream 14, and a third direct heat exchange element 32 utilising a third coolant 34 for extracting the heat energy from the primary air stream 14.



21: 2021/04593. 22: 2021/07/01. 43: 2025/02/27
 51: A61K; A61P
 71: BAUSCH + LOMB IRELAND LIMITED
 72: MOGI, Muneto, MEDLEY, Quintus, MONTECCHI-PALMER, Michela, STASI, Kalliopi
 33: US 31: 62/806,682 32: 2019-02-15
54: METHODS FOR TREATING OCULAR SURFACE PAIN

00: -
 The present invention provides methods for treating ocular surface pain by administering 4-(7-hydroxy-2-isopropyl-4-oxo-4H-quinazolin-3-yl)-benzotriazole (compound I). The present invention also provides methods for treating dry eye disease and ocular hyperemia by administering 4-(7-hydroxy-2-isopropyl-4-oxo-4H-quinazolin-3-yl)-benzotriazole.

21: 2021/04824. 22: 2021/07/09. 43: 2025/01/10
 51: A23J; A61K; A61P; A61Q
 71: Société des Produits Nestlé S.A.
 72: BLANCHARD, Carine, HOLVOET, Sébastien
 33: EP(CH) 31: 18213823.0 32: 2018-12-19
54: COMPOSITION FOR PREVENTING OR REDUCING TRANSEPIDERMAL WATER LOSS AND IMPROVING SKIN BARRIER FUNCTION

00: -
 The present invention relates to the use of a milk whey protein hydrolysate for preventing or treating transepidermal water loss (TEWL) and/or TEWL-

associated disorders or/and enhancing skin barrier function in young and adult mammals. The protein hydrolysate may be used in the prevention or treatment of TEWL-associated disorders, such as atopic dermatitis, dry or reactive skin or skin dehydration. It may also be used in the cosmetic use of improving skin appearance.

21: 2021/05833. 22: 2021/08/16. 43: 2025/01/24

51: A61K; A61P; C07F

71: AstraZeneca AB

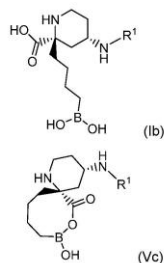
72: MLYNARSKI, Scott Nathan, GREBE, Tyler, KAWATKAR, Sameer, FINLAY, Maurice Raymond Verschoyle, SIMPSON, Iain

33: US 31: 62/802,765 32: 2019-02-08

54: ARGINASE INHIBITORS AND METHODS OF USE THEREOF

00: -

Disclosed are compounds of formula (Ib) or (Vc), or a pharmaceutically acceptable salt thereof, pharmaceutical compositions comprising compounds of formula (Ib) or (Vc) and methods of using the same for treating cancer, respiratory inflammatory disease, and inhibiting arginase; wherein R¹ is -H or -C(O)CH(R^{1a})NHR^{1b}; and R^{1a} is selected from -H, -(C₁-C₄) alkyl and CH₂OR^{1c}; R^{1b} is -H; or alternatively, R^{1a} and R^{1b}, together with the atom to which they are attached, form a 5-membered heterocyclic ring; and R^{1c} is H or -CH₃.



21: 2021/05930. 22: 2021/08/18. 43: 2025/01/31

51: A61K

71: DENALI THERAPEUTICS INC.

72: CRAIG, Robert, A., II, DE VICENTE FIDALGO, Javier, ESTRADA, Anthony, A., FENG, Jianwen, A., FOX, Brian, M., OSIPOV, Maksim, THOTTUMKARA, Arun

33: US 31: 62/805,263 32: 2019-02-13

33: US 31: 62/877,232 32: 2019-07-22

54: COMPOUNDS, COMPOSITIONS AND METHODS

00: -

The present disclosure relates generally to eukaryotic initiation factor 2B modulators, or a

pharmaceutically acceptable salt, stereoisomer, mixture of stereoisomers, or prodrug thereof, and methods of making and using thereof.

21: 2021/06036. 22: 2021/08/20. 43: 2025/01/28

51: G01N

71: UNIVERSITY OF JOHANNESBURG

72: CONNELL, Simon Henry, COOK, Martin

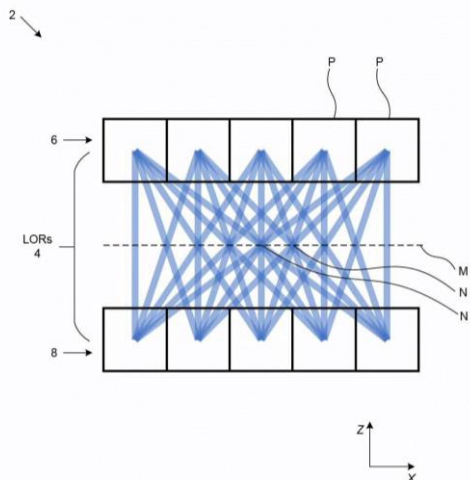
Nkululeko Hogan

33: ZA 31: 2019/00463 32: 2019-01-23

54: DETECTOR ARRANGEMENT, DETECTION SYSTEM AND METHOD OF POSITIONING A DETECTOR ARRANGEMENT TO REDUCE IMAGING ARTEFACTS

00: -

The invention relates to detection of particles/substances of interest in objects and obtaining high quality 3D images of said object. The invention also relates to detector arrangements and systems which find application in at least mining and/or medical applications of positron emission tomography, and to methods of dynamically positioning detector arrangements to reduce imaging artefacts. The detector arrangement comprises an array of detector elements defining a detector plane, wherein the elements detect photons emitted from an object, located along at least a first axis defined by an object plane, as a result of nuclear reactions within the object. The object and/or array are displaceable relative to each other and the detector plane is angled/ configured to be angled relative to a second and/or third axis. The second axis extends transversely across the object plane relative to the first axis, and the third axis extends perpendicularly to the first axis.



21: 2021/07033. 22: 2021/09/21. 43: 2025/01/24
 51: A61K
 71: Catalent U.K. Swindon Zydis Limited
 72: MCLAUGHLIN, Rosaleen, HOWES, Simon
 Andrew Martyn, WHITEHOUSE, Jonathon
 33: US 31: 62/809,293 32: 2019-02-22
**54: MINIMIZING AERATION OF SUSPENSIONS
 DURING IN-LINE MIXING**

00: -
 Provided are pharmaceutical compositions and methods for preparing pharmaceutical compositions that can minimize the aeration a pharmaceutical suspension during the production process. Pharmaceutical compositions include a plurality of API particles; a coating material encapsulating each API particle of the plurality of API particles; and a matrix solution/suspension comprising a matrix former, a structure former, and an anti-aerating agent.

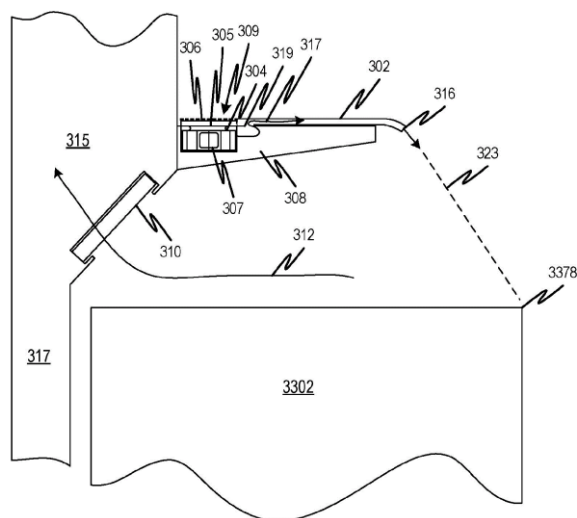
21: 2021/07042. 22: 2021/09/21. 43: 2025/01/10
 51: C12N
 71: DECIBEL BIO, INC.
 72: BAYER, TRAVIS, SCHNEIDER, KEVIN L,
 KINNE, ADEN, SAMSON, JENNIFER ADELE,
 GARAY, ITXASO
 33: US 31: 62/820,172 32: 2019-03-18
**54: PROGRAMMABLE EPIGENETIC CONTROL
 OF GENE EXPRESSION IN PLANTS**

00: -
 Disclosed herein are artificially synthesized nucleic acid constructs to guide an epigenetic modification for at least partially silencing or activating a target gene in an organism such as a plant or seed, and formulations thereof. Also disclosed are methods of

applying such nucleic acid constructs to the plant or to the seed. Also disclosed are engineered seeds and plants obtained by the epigenetic modification.

21: 2021/07089. 22: 2021/09/22. 43: 2025/01/24
 51: F24C
 71: Oy Halton Group Ltd.
 72: HIRSCHMANN, Christian, RYNNÄNEN, Jouni,
 TAN, Chun Khai
 33: US 31: 62/829,218 32: 2019-04-04
54: SLIDE-TYPE RANGE HOOD

00: -
 An exhaust device has a fan plenum with a fan and a jet plenum having a generally planar shape with one or more jet openings on a distal end thereof configured to create a planar jet. The jet plenum is movably attached at a proximal end thereof to the fan plenum to permit sliding movement of the jet plenum relative to the fan plenum. The fan plenum and the jet plenum each have a respective flow-transfer opening that overlaps the opening of the other, the respective openings being shaped and arranged to remain overlapped in all positions to which the jet plenum is moved relative to the fan plenum such that an interior of the fan plenum and the jet plenum remain in fluid communication to allow air to flow from the fan to flow from the fan plenum to the jet plenum.



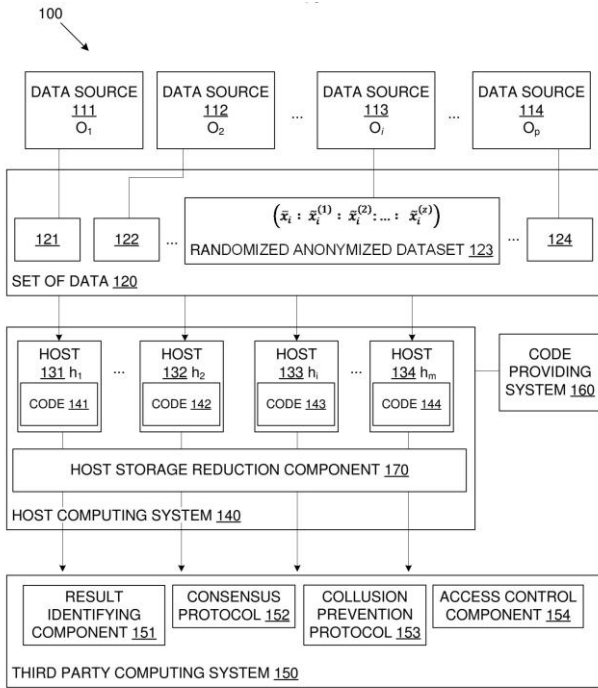
21: 2021/07333. 22: 2021/09/29. 43: 2025/02/07
 51: G06F
 71: UNIVERSITY OF CAPE TOWN
 72: BERTRAM, Sabine, GEORG, Pierre Georg

33: GB 31: 1903141.8 32: 2019-03-08

54: SYSTEM AND ASSOCIATED METHOD FOR ENSURING DATA PRIVACY

00: -

Systems and methods for ensuring data privacy in a data sharing system are provided. A computer implemented method carried out at a host computing system includes: accessing a set of data from a data source including a true element and at least one spurious element so that the host computing system cannot differentiate between the elements; accessing a code which is executable on the set of data; and processing the set of data, including for each element: executing the code on the element to generate a result; computing a hash value of the element; and outputting the result in association with the hash value to a third-party computing system that has access to the true hash value of the true element for identification of the result generated by execution of the code on the true element.



21: 2021/07415. 22: 2021/10/01. 43: 2025/02/04

51: E04G

71: PERI AG

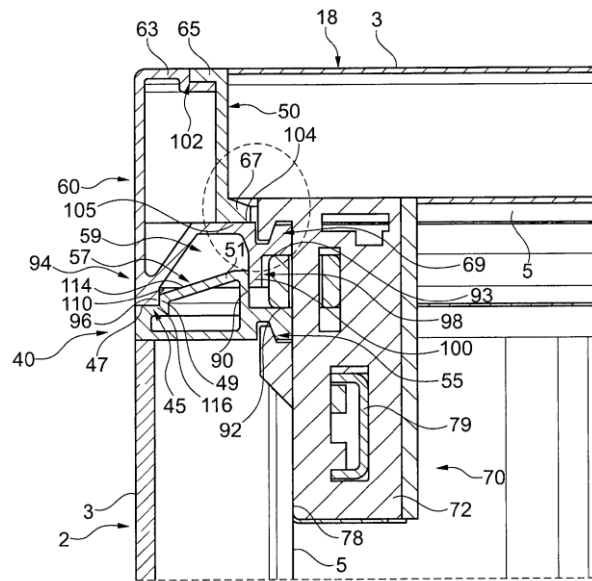
72: SCHNEIDER, Werner, BELMANN, Eugen

33: DE 31: 10 2019 002 566.0 32: 2019-04-08

54: FORMWORK PANEL MADE OF METAL FOR CONCRETE FORMWORK

00: -

A formwork panel made of metal for concrete formwork, comprising a front side presenting a shaping surface for concrete, an opposite rear side and an end profile made of metal at an end of the formwork panel for joining the formwork panel to an adjacent formwork component, characterized in that the end profile has, on its engagement side provided for said joining, a portion protruding in the direction toward the adjacent formwork component, with an open step, for cooperation with the adjacent formwork component, being provided on that side of said portion, which is closer to the formwork panel front side, and with a first surface facing away from the front side of the formwork panel, for cooperation with the adjacent formwork component, being provided on that side of said portion, which is closer to the formwork panel rear side.



21: 2021/07426. 22: 2021/10/01. 43: 2025/01/24

51: A61K; A61P; C07K

71: Novo Nordisk A/S

72: GANDHI, Prafull S., BREINHOLT, Jens, ØSTERGAARD, Henrik

33: EP(DK) 31: 19169704.4 32: 2019-04-17

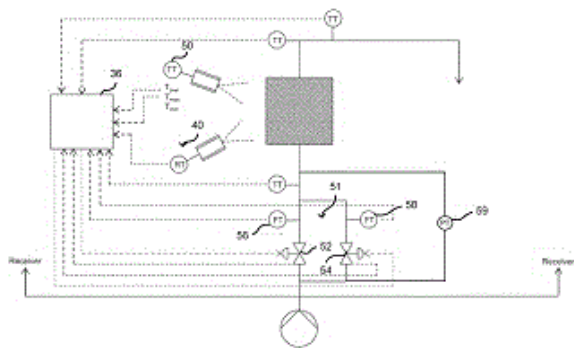
54: BISPECIFIC ANTIBODIES

00: -

The invention relates to a bispecific antibody comprising a first antigen-binding site capable of binding Factor VII(a) and a second antigen-binding site capable of binding TLT-1, pharmaceutical formulations comprising such bispecific antibodies and uses thereof.

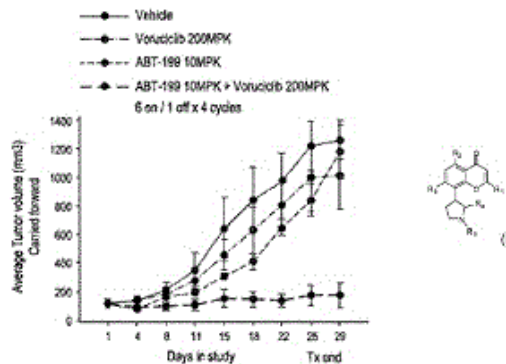
21: 2021/07455. 22: 2021/10/04. 43: 2025/01/24
 51: F24S
 71: VAST SOLAR PTY LTD
 72: CURTIS, ALLAN, DREWES, KURT FRIEDRICH,
 BLINCO, NICOLE ANN
 33: AU 31: 2019900731 32: 2019-03-06
**54: METHOD AND SYSTEM FOR CONTROLLING
 THE OPERATION OF A CSP RECEIVER**
 00: -

There is provided a concentrated solar energy collection system including an array of heliostats and a solar receiver including a plurality of tubes having at least one inlet and at least one outlet for carrying a heat transfer fluid. A flow control arrangement is provided for controlling the flow of heat transfer fluid through the tubes. This includes at least one radiation sensor such as a pyranometer for sensing values representative of the aggregate solar radiation falling on the solar receiver via the heliostats. At least one temperature sensor measures input temperature of the heat transfer fluid (HTF) at or near the inlet. A controller responsive to the radiation sensor and the at least one temperature sensor regulates the outlet temperature of the HTF by controlling the flow of HTF through the tubes via the flow control arrangement. A pressure differential sensor arrangement measures pressure differential across the flow control arrangement, providing an input to the controller.



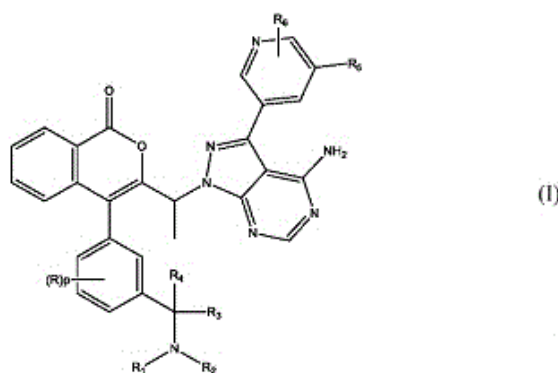
21: 2021/07579. 22: 2021/10/08. 43: 2025/01/20
 51: A61K; A61P
 71: PRESAGE BIOSCIENCES, INC.
 72: KLINGHOFFER, RICHARD, DEY, JOYOTI
 33: US 31: 62/314,356 32: 2016-03-28
**54: PHARMACEUTICAL COMBINATIONS FOR
 THE TREATMENT OF CANCER**
 00: -

The disclosure herein provides combination therapies for the treatment of cancers such as Leukemia, lymphoma and triple negative breast cancer. The disclosure provides combination therapies of CDK inhibitors, e.g., a CDK inhibitor represented by Formula (I): or a pharmaceutically acceptable salt thereof together with a BCL-2 inhibitor or proteasome inhibitor for the treatment of cancer.



21: 2021/07710. 22: 2021/10/12. 43: 2025/01/13
 51: C07D; A61P; A61K
 71: CHIESI FARMACEUTICI S.P.A.
 72: BIAGETTI, MATTEO, RONCHI, PAOLO,
 FIORELLI, CLAUDIO, BRUNO, PAOLO
 33: EP 31: 19167245.0 32: 2019-04-04
**54: ISOCHROMENE DERIVATIVES AS
 PHOSPHOINOSITIDE 3-KINASES INHIBITORS**
 00: -

The invention relates to compounds of formula (I) inhibiting phosphoinositide 3-kinases (PI3K), to pharmaceutical compositions comprising them and therapeutic use thereof in the treatment of disorders associated with PI3K enzymes.



21: 2021/07711. 22: 2021/10/12. 43: 2025/01/20

51: A61P; C07D

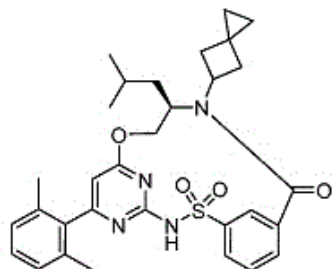
71: VERTEX PHARMACEUTICALS
INCORPORATED72: ABELA, ALEXANDER RUSSELL, ABRAHAM,
SUNNY, ANDERSON, COREY DON, ARUMUGAM,
VIJAYALAKSMI, CHAU, JACLYN, CLEMENS,
JEREMY, CLEVELAND, THOMAS, DWIGHT,
TIMOTHY A, FRIEMAN, BRYAN A,
GROOTENHUIS, PETER (DECEASED), HADIDA
RUAH, SARA SABINA, ISHIHARA, YOSHIHIRO,
KRENITSKY, PAUL, MCCARTNEY, JASON,
MELILLO, VITO, MILLER, MARK THOMAS, SILINA,
ALINA, UY, JOHNNY, ZHOU, JINGLAN

33: US 31: 62/828,699 32: 2019-04-03

**54: CYSTIC FIBROSIS TRANSMEMBRANE
CONDUCTANCE REGULATOR MODULATING
AGENTS**

00: -

Compound (I), deuterated derivatives, and pharmaceutically acceptable salts of any of the foregoing are disclosed. Methods of treating cystic fibrosis using these compounds are also disclosed.



(I)

21: 2021/07831. 22: 2021/10/14. 43: 2025/01/20

51: C07C

71: JOHNSON MATTHEY DAVY TECHNOLOGIES
LIMITED72: ARCHIBALD, FRASER ROBERT, JOLLY,
ROBERT ARTHUR, LOPEZ, MARIA DEL AMO,
WELCH, DAVID KEITH

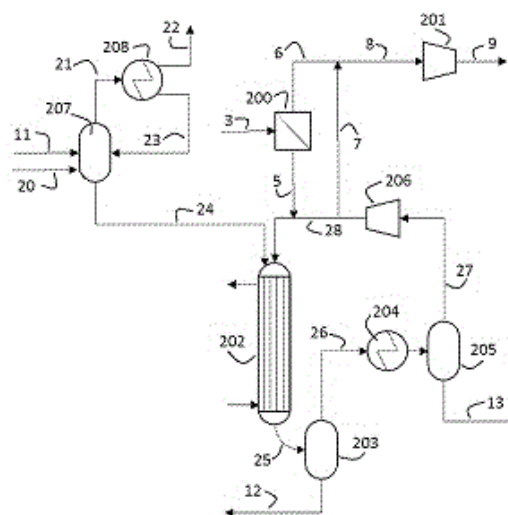
33: GB 31: 1907659.5 32: 2019-05-30

54: PROCESS

00: -

A process for the hydroformylation of olefins to aldehydes is disclosed. The process comprises: hydroformylating one or more olefins with hydrogen and carbon monoxide in the presence of a ligand-rhodium catalyst in a reaction zone; recovering a reactor effluent from the reaction zone, the reactor effluent comprising product aldehyde and the ligand-rhodium catalyst; passing the reactor effluent and a strip gas to a vaporiser, wherein the strip gas comprises carbon monoxide and is formed from a

recycle strip gas stream and a make-up strip gas stream, wherein the product aldehyde is vaporised into the strip gas in the vaporiser resulting in a vapour mixture, comprising the strip gas and the product aldehyde, and a liquid mixture, comprising the ligand-rhodium catalyst; recovering the liquid mixture and recycling the ligand-rhodium catalyst to the reaction zone; recovering the vapour mixture and separating the product aldehyde from the vapour mixture to create a product aldehyde stream and the recycle strip gas stream; purging a portion of the recycle strip gas as a purged strip gas stream; and combining the purged strip gas stream with a hydrogen-containing stream to create a re-formed syngas stream, comprising hydrogen and carbon monoxide, and feeding the re-formed syngas stream to the reaction zone.



21: 2021/07864. 22: 2021/10/15. 43: 2025/01/20

51: A61B; A61H; F41H

71: Q30 SPORTS SCIENCE, LLC

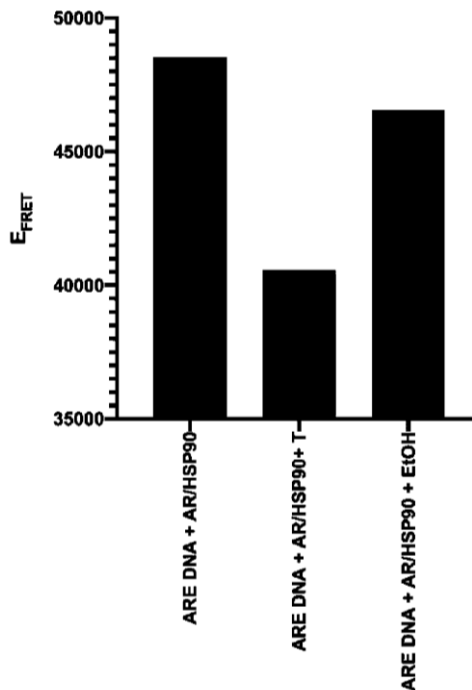
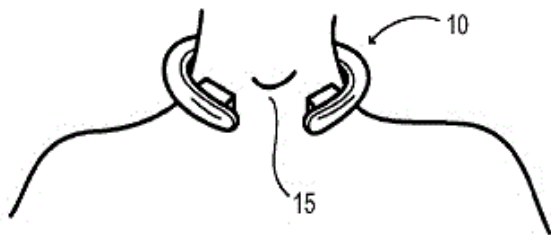
72: ELVIRA, GEORGE, GEORGIEV, STEPHAN,
TREMBLAY, MARTIN

33: US 31: 62/256,093 32: 2015-11-16

**54: TRAUMATIC BRAIN INJURY PROTECTION
DEVICES**

00: -

The disclosure provides neck collar devices and systems for the mitigation and prevention of traumatic brain injury, including concussion. Specifically disclosed are adjustable collars and systems, and collars having certain pressure sensing devices.

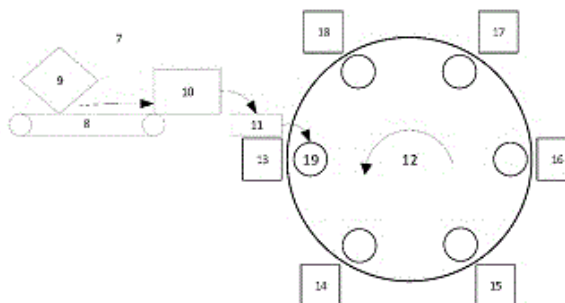


21: 2021/08084. 22: 2021/10/21. 43: 2025/03/06
 51: G01N; B82Y
 71: INSITUGEN LIMITED
 72: HEATHER, Alison Kay, SOWERBY, Stephen John
 33: NZ 31: 753245 32: 2019-05-07
54: NOVEL LIGAND ASSAYS
 00: -

The present invention is concerned with the detection of ligands which bind to and activate steroid hormone receptors. Specifically, the present invention provides test kits and assay methods for the selective identification of steroid hormone receptor ligands from a test sample. Importantly, the test kits and assay methods described herein are cell-free and enzyme-free, and do not require expensive-to-manufacture nuclear extracts for their performance. Instead, the test kits and assay methods described herein employ reporter constructs comprising hormone response elements, which when bound by a ligand-activated steroid hormone receptor force a change in a physical property, a mechanical property, an optical property, a photochemical property or an electrochemical property of the reporter construct. Accordingly, a measured change in a physical, mechanical, optical, photochemical or electrochemical property of the reporter construct (e.g. fluorescence read-out) may be used to determine the presence of a target ligand in a sample under investigation.

21: 2021/08377. 22: 2021/10/28. 43: 2025/01/20
 51: G01N
 71: LENZING AKTIENGESELLSCHAFT
 72: RAMSAUER, CHRISTOPH, YALDEZ, ROLF, KEMPTNER, FRANZ, LEITNER, HELMUT
 33: EP 31: 19176296.2 32: 2019-05-23
54: AUTOMATED POLYMER ANALYZING SYSTEM AND ITS USE
 00: -

The present invention relates to an automated system for the determination of polymer properties and the use of this system for monitoring the processing of the respective polymer.



21: 2021/08436. 22: 2021/10/29. 43: 2025/01/10
 51: C09D
 71: CHEMETALL GMBH

72: CASAMOR, Jose, M., JAEN FRANCO, Miguel, Angel, GIRBAU, Jordi

33: EP 31: 19167026.4 32: 2019-04-03

54: IMPROVED METHOD FOR PURGING PAINT CIRCUITS AND WATERBORNE PURGE CLEANER

00: -

The present invention relates to a method for purging paint circuits coated with a non-cured paint with improved cleaning efficiency and a reduced COD (Chemical Oxygen Demand) in the wastewater wherein a paint circuit is brought into contact with a waterborne purge cleaner solution comprising at least one glycoether and which additionally comprises at least one water-soluble amine having at least 7 carbon atoms. Moreover, the invention refers to a waterborne purge cleaner solution with improved cleaning efficiency and reduced VOC (Volatile Organic Compound) content as well as to a concentrate for producing the purge cleaner solution.

21: 2021/08439. 22: 2021/10/29. 43: 2025/01/24
51: F24S

71: VAST SOLAR PTY LTD

72: LESLIE, BRUCE ALEXANDER, PLANT, BENJAMIN CHARLES

33: AU 31: 2019901160 32: 2019-04-04

54: ASSEMBLY AND METHOD FOR ATTACHING A HELIOSTAT TO A FOUNDATION

00: -

This disclosure relates to an assembly and method for attaching a heliostat to a foundation in a tower-based solar thermal CSP installation. A heliostat securing assembly for securing a heliostat to a tubular foundation post comprises an insert locatable within an upper opening in the foundation post, the insert defining an aperture for receiving a support shaft of the heliostat. A clamp arrangement, for locating the insert in the upper opening in the foundation post, has at least one inner or outer bearing surface configured to bear against at least one corresponding outer or inner bearing surface of the insert. One or more urging connectors, for connecting the insert and the clamp arrangement, is operable to urge at least one of the insert and the clamp arrangement toward the other in an axial direction of the foundation post. At least one of the at least one outer or inner bearing surface and the at least one corresponding inner or outer bearing surface is configured to transform at least a portion

of relative axial movement between the insert and the clamp into relative transverse movement such that, when the insert is located in the upper opening in the foundation post, operation of the urging connector(s) urges at least one of the insert and clamp arrangement in the transverse direction to clamp the securing assembly between the support shaft and foundation post and thereby secure the heliostat to the foundation post.

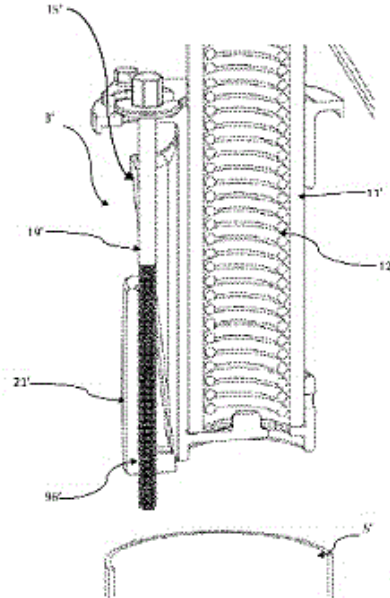


Fig 9A

21: 2021/08537. 22: 2021/11/02. 43: 2025/01/10
51: E02F

71: HENSLEY INDUSTRIES, INC.

72: BILAL, Mohamad Youssef

33: US 31: 62/834,214 32: 2019-04-15

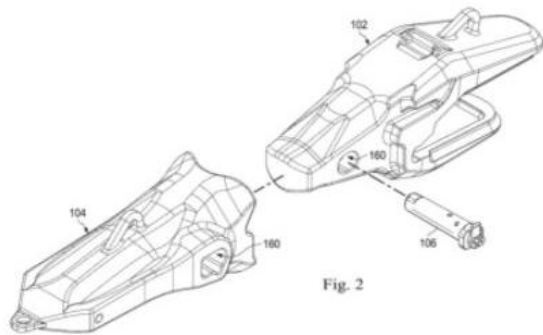
33: US 31: 16/843,623 32: 2020-04-08

54: POSITION-BIASED LOCKING PIN ASSEMBLY FOR A GROUND ENGAGING WEAR MEMBER

00: -

A locking pin assembly (106) for securing a wear member to a support structure may include a body portion (110) and may include a shaft member (112) partially disposed within and extending from the body portion and rotatable between a first position that mechanically inhibits removal of a ground engaging member from a support structure and a second position that permits removal of the ground engaging member from the support structure. A wear member (104) for receiving a locking pin assembly (106) may include a bore (160) extending laterally through the bore member with a proximal

opening and a distal opening, an installation ramp (182) and a removal ramp (184) may be disposed at the proximal opening for engaging a tang (126) of a shaft member (112) of the locking pin assembly (106).



21: 2021/08849. 22: 2021/11/09. 43: 2025/01/31
 51: B23K; B22D; B32B; C22C; F28F
 71: NOVELIS INC.
 72: KADALI, JYOTHI

33: US 31: 62/849,938 32: 2019-05-19

54: ALUMINUM ALLOYS FOR FLUXLESS BRAZING APPLICATIONS, METHODS OF MAKING THE SAME, AND USES THEREOF

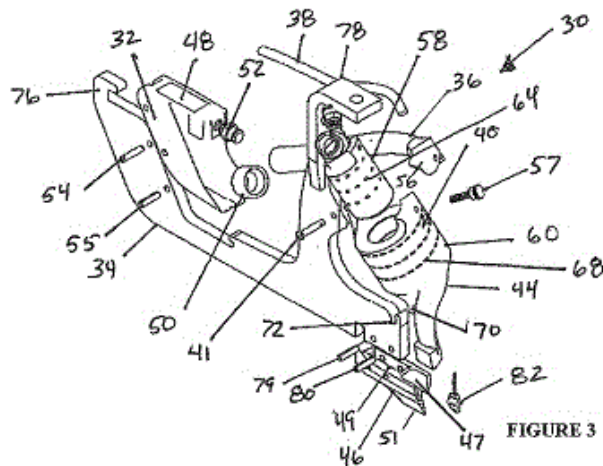
00: -
 Provided are new aluminum alloys for use as one or more cladding layer(s) in clad aluminum alloy products for brazing applications. The cladding layer(s) include constituents that break and remove the oxide film on metal parts to be joined to produce high-strength brazing joints without the use of corrosive flux. Also provided herein are corrosion-resistant aluminum sheet packages including one or more of the aluminum alloy cladding layer(s) and an aluminum alloy core.

21: 2021/08949. 22: 2021/11/11. 43: 2025/02/26
 51: A01B; A01C; A01G
 71: PRECISION PLANTING LLC
 72: MITCHELL R DILLE, KEITH T STRANG
 33: US 31: 62/845,093 32: 2019-05-08
 33: US 31: 62/885,965 32: 2019-08-13

54: SEED ORIENTATION SYSTEM FOR AGRICULTURAL PLANTERS

00: -
 The present invention comprises of a seed orientation system generally consisting of a seed transfer tube that moves seeds from a seed collector to a helical pathway in a seed orientation coil

assembly. The seed orientation coil assembly can receive randomly orientated seeds from the planter seed meter, orientating the seed tip-down, germ facing adjacent row, then planting the seed into the soil with said orientation. The device may be retrofitted onto existing planter row units replacing the existing seed tube. A method of planting orientated seeds is also included.



21: 2022/00410. 22: 2022/01/07. 43: 2025/02/21
 51: A61K; A61P
 71: VANDA PHARMACEUTICALS INC.
 72: POLYMERPOULOS, Mihael, SMIESZEK, Sandra
 33: US 31: 62/868,881 32: 2019-06-29

54: TASIMELTEON USE IN TREATING SLEEP ABERRATIONS

00: -
 The invention relates generally to circadian rhythm disorders and, more particularly, to the treatment or prevention of circadian rhythm disorders based on an individual's HCN1 genotype. One aspect of the invention provides a method of treating an individual for delayed sleep time comprising: determining or having determined from a biological sample of the individual that the individual has a GG genotype at the rs12188518 single nucleotide polymorphism (SNP) locus; and administering to the individual once daily before a target bedtime a dose of tasimelteon effective to advance the sleep time of the individual. Other genotypes related with circadian rhythm disorders are CC at rs11248864 and AA at rs72762058.

21: 2022/00538. 22: 2022/01/11. 43: 2025/01/24
51: C07D; A61P; A61K

71: JIANGSU HENGRUI MEDICINE CO., LTD.,
SHANGHAI HENGRUI PHARMACEUTICAL CO.,
LTD.

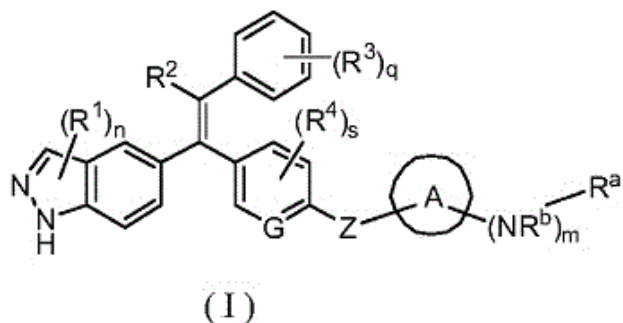
72: FAN, XING, YANG, FANGLONG, YAN,
JINGJING, WU, XIAO, HE, FENG, TAO, WEIKANG

33: CN 31: 201910530981.3 32: 2019-06-19

**54: INDAZOLE DERIVATIVE, PREPARATION
METHOD THEREFOR, AND PHARMACEUTICAL
APPLICATION THEREOF**

00: -

An indazole derivative, a preparation method therefor, and a pharmaceutical application thereof. In particular, the present invention relates to an indazole derivative represented by general formula (I), a preparation method therefor, a pharmaceutical composition comprising the derivative, and a use of the derivative as an estrogen receptor modulator in the prevention and/or treatment of an estrogen receptor mediated or dependent disease or condition, the disease being particularly preferably breast cancer. The definition of each substituent in the general formula (I) is the same as that in the description.



21: 2022/00651. 22: 2022/01/13. 43: 2025/01/24
51: A61K A61P

71: QBIOTICS PTY LTD

72: THOMAS, David, William, REDDELL, Paul,
Warren, BOYLE, Glen, Mathew, CULLEN, Jason,
Kingsley, GORDON, Victoria, Anne, HILL, Katja,
Etel, POWELL, Lydia, Charlotte, PRITCHARD,
Manon, F., PARSONS, Peter, G

33: AU 31: 2019902144 32: 2019-06-19

54: BIOFILM DISRUPTION

00: -

The present invention relates to methods of dispersing biofilms comprising Gram-negative bacteria, the methods comprising exposing the biofilm to an epoxytiglicone compound or a salt

thereof. Methods of treating infections comprising the localised administration, for example, topically or by injection, of an epoxytiglicone compound into or onto an established biofilm comprising Gram-negative bacteria to disrupt the structure of that biofilm and methods of preventing biofilms comprising Gram-negative bacteria forming or dispersing biofilms comprising Gram-negative biofilms that have formed on medical devices are also described.

21: 2022/03913. 22: 2022/04/06. 43: 2025/02/13
51: B01J; C07C

71: CLARIANT INTERNATIONAL LTD

72: DOERFELT, Christoph, PFANZELT, Manuel,
BURGFELS, Goetz, GROSSMANN, Frank, PILZ,
Maurice, Frederic

33: DE 31: 10 2019 131 569.7 32: 2019-11-22

**54: CHROMIUM-FREE WATER- AND ACID-
STABLE CATALYST FOR HYDROGENATION
REACTIONS**

00: -

The present invention relates to an improved chromium-free Cu-Al catalyst for the hydrogenation of carbonyl groups in organic compounds, characterized in that the catalyst contains zirconium in a proportion of 0.5 to 30.0 wt.%. The invention also relates to the production of the catalyst and to the use of same in the hydrogenation of carbonyl groups in organic compounds.

21: 2022/05443. 22: 2022/05/17. 43: 2025/01/10
51: A61K; C07K

71: Eli Lilly and Company

72: ABRAHAM, Milata Mary, ALSINA-FERNANDEZ,
Jorge, COSKUN, Tamer, QU, Hongchang, WALLIS,
James Lincoln

33: US 31: 62/949,661 32: 2019-12-18

54: INCRETIN ANALOGS AND USES THEREOF

00: -

Incretin analogs are provided that have activity at each of the glucose-dependent insulinotropic polypeptide (GIP), glucagon-like peptide- 1 (GLP-1) and glucagon (GCG) receptors. The incretin analogs have structural features resulting in balanced activity and extended duration of action at each of these receptors. Methods also are provided for treating diseases such as type 2 diabetes mellitus, dyslipidemia, metabolic syndrome, non-alcoholic

fatty liver disease, non-alcoholic steatohepatitis and obesity.

21: 2022/06006. 22: 2022/05/30. 43: 2025/01/09
51: C07C; C10G

71: Eastman Chemical Company
72: BITTING, Daryl, WU, Xianchun, SLIVENSKY, David Eugene, POLASEK, Michael Gary
33: US 31: 62/928,450 32: 2019-10-31

54: PROCESSES AND SYSTEMS FOR MAKING RECYCLE CONTENT HYDROCARBONS THROUGH A PROPYLENE FRACTIONATOR

00: -
Processes and systems for making recycle content hydrocarbons, including olefins, from recycled waste material. Recycle waste material may be pyrolyzed to form recycle content pyrolysis oil composition (r-pyOil), at least a portion of which may then be cracked to form a recycle content olefin composition (r-olefin). The r-olefin may then be further separated into product streams in a separation zone downstream of the cracker furnace. The presence of recycle content hydrocarbons may facilitate more efficient operation of one or more distillation columns in the separation zone, including the propylene fractionator.

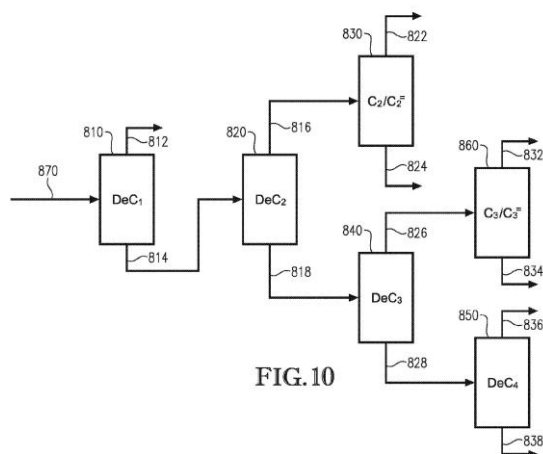


FIG. 10

21: 2022/06011. 22: 2022/05/30. 43: 2025/01/09
51: C10G

71: Eastman Chemical Company
72: POLASEK, Michael Gary, BITTING, Daryl, SLIVENSKY, David Eugene, ASHCROFT, Carey Dan, STAVINOH, Jr., Jerome Leonard, WU, Xianchun
33: US 31: 62/928,478 32: 2019-10-31

54: PROCESSES AND SYSTEMS FOR FORMATION OF RECYCLE-CONTENT HYDROCARBON COMPOSITIONS

00: -
Processes and systems for making recycle content hydrocarbons, including olefins, from recycled waste material. Recycle waste material may be pyrolyzed to form recycle content pyrolysis oil composition (r-pyOil), at least a portion of which may then be cracked to form a recycle content olefin composition (r-olefin). The r-olefin may then be further separated into product streams in a separation zone downstream of the cracker furnace. In some cases, presence of recycle content hydrocarbons may facilitate more efficient operation of one or more distillation columns in the separation zone, including the debutanizer.

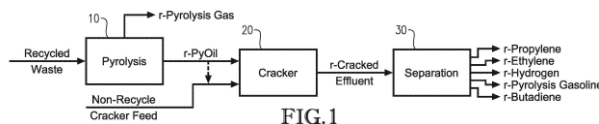


FIG. 1

21: 2022/06012. 22: 2022/05/30. 43: 2025/01/13
51: C10G

71: Eastman Chemical Company
72: WU, Xianchun, BITTING, Daryl, PARKER, Kenny Randolph, POLASEK, Michael Gary, SLIVENSKY, David Eugene, ASHCROFT, Carey Dan, BILLODEAUX, Damon Ray
33: US 31: 62/928,441 32: 2019-10-31

54: PYROLYSIS METHOD AND SYSTEM FOR RECYCLED WASTE

00: -
A pyrolysis method and system are provided that enhances the production of C3 and C4 alkanes in the resulting pyrolysis effluent. More particularly, the disclosed pyrolysis method and system may be configured to enhance the production of C3 and C4 alkanes due to the use of certain pyrolysis catalysts and more intense pyrolysis conditions.

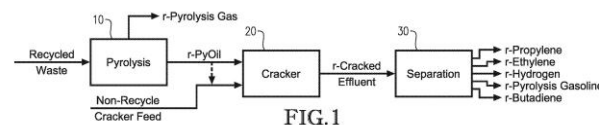


FIG. 1

21: 2022/06258. 22: 2022/06/06. 43: 2025/01/09
51: C07C; C07D; C08G

71: Eastman Chemical Company

72: SLIVENSKY, David Eugene, BITTING, Daryl, PARKER, Kenny Randolph, POLASEK, Michael Gary, TRAPP, William Lewis, WU, Xianchun

33: US 31: 62/932,019 32: 2019-11-07

33: US 31: 62/932,101 32: 2019-11-07

54: RECYCLE CONTENT ETHYLENE OXIDE OR ALKYLENE GLYCOLS

00: -

Ethylene oxide composition having a recycle content value is obtained by reacting an ethylene stream containing recycle content ethylene to make a recycle content ethylene oxide or by deducting from a recycle inventory a recycle content value applied to ethylene oxide composition. At least a portion of the recycle content value in the feedstock or in an allotment obtained by ethylene oxide manufacturer has its origin in recycled waste and/or pyrolysis of recycled waste and/or in thermal steam cracking of recycle content pyoil. An alkylene diol composition and/or an alkylene diol polyester composition having a recycle content value that is obtained by reacting a recycle content feedstock to make a recycle content alkylene diol or alkylene diol polyester or by deducting from a recycle inventory a recycle content value applied to an alkylene diol composition and/or alkylene diol polyester. At least a portion of the recycle content value in the feedstock or in an allotment obtained by an alkylene diol or alkylene diol polyester manufacturer has its origin in recycled waste and/or pyrolysis of recycled waste and/or in thermal steam cracking of recycle content pyoil.

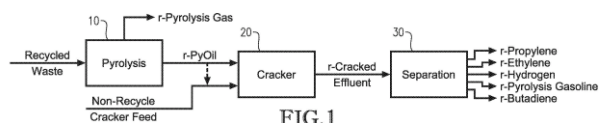


FIG. 1

21: 2022/06259. 22: 2022/06/06. 43: 2025/01/09

51: C07C; C10G

71: Eastman Chemical Company

72: SLIVENSKY, David Eugene, BITTING, Daryl, PARKER, Kenny Randolph, POLASEK, Michael Gary, TRAPP, William Lewis, WU, Xianchun

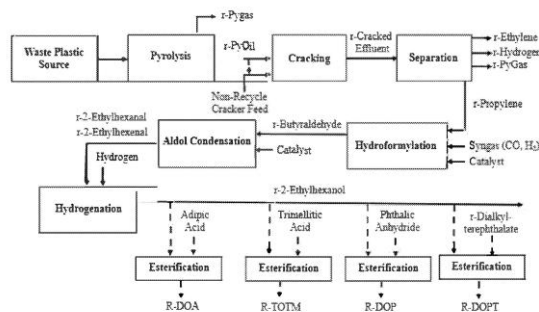
33: US 31: 62/932,023 32: 2019-11-07

54: RECYCLE CONTENT OXO ALCOHOLS & OXO PLASTICIZERS

00: -

A composition having a recycle content value is obtained by reacting a recycle content feedstock to make a recycle content oxo alcohol or oxo plasticizer or by deducting from a recycle inventory a recycle

content value applied to an oxo alcohol or oxo plasticizer composition. At least a portion of the recycle content value in the feedstock or in an allotment obtained by an oxo alcohol or oxo plasticizer manufacturer has its origin in recycled waste and/or pyrolysis of recycled waste and/or in thermal steam cracking of recycle content pyoil.



21: 2022/07336. 22: 2022/07/01. 43: 2025/01/09

51: C10B; C10L; C10M

71: SICPA HOLDING SA

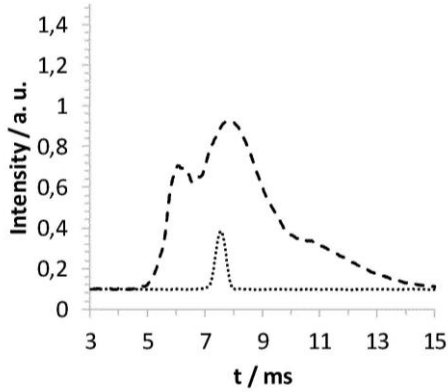
72: ZÜHLKE, Martin, RIEBE, Daniel, BEITZ, Toralf, TILLER, Thomas, LOPEZ GEJO, Juan, LASKAY, Ünige

33: EP(CH) 31: 19213124.1 32: 2019-12-03

54: METHOD FOR DETERMINING AUTHENTICITY AND ADULTERATION OF MARKED PETROLEUM HYDROCARBONS

00: -

The present invention provides a method for determining the authenticity of a petroleum hydrocarbon allegedly comprising at least one specific chemical marker, as well as a method for determining adulteration of a petroleum hydrocarbon marked with at least one specific chemical marker. The methods claimed and described herein rely upon the use of specific chemical markers in combination with laser ionization at a wavelength of between about 300 nm and about 370 nm coupled with ion mobility spectrometry or with mass spectrometry.



21: 2022/07504. 22: 2022/07/06. 43: 2025/01/10
51: E02F

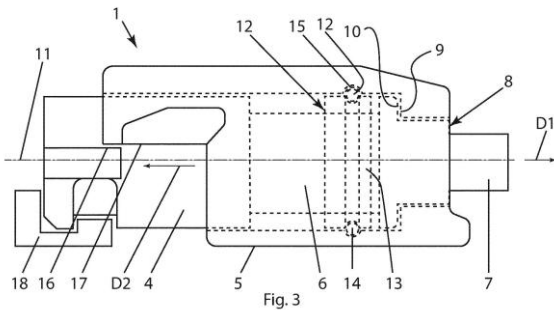
71: Sandvik Mining and Construction Australia (Production Supply) Pty Ltd, Sandvik Mining and Construction Oy

72: KNOWLES, Bruce

54: LOCKING ASSEMBLY FOR A SHROUD FOR A GROUND ENGAGING TOOL

00: -

A locking assembly (1) for releasably locking a shroud (2) to a carrier (3), wherein the locking assembly comprises a main body, a piston and a bolt provided with a thread engaging a corresponding thread of the piston for controlling the position of the piston relative to the main body, wherein locking assembly comprises a retaining means comprising a plurality of balls securing the bolt within a central recess of the main body.



21: 2022/07932. 22: 2022/07/18. 43: 2025/02/12
51: B65G

71: COETZEE, Jan

72: COETZEE, Jan

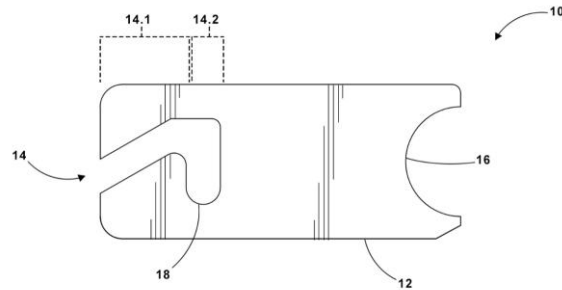
33: ZA 31: 2021/02557 32: 2021-04-19

54: CONVEYOR IDLER MOUNTING

00: -

The invention relates an idler mount for mounting an idler to a conveyor frame which includes a body

defining a mounting slot into which an idler axle is receivable, the mounting slot being shaped to define a non-linear mounting entry. The mounting slot includes an axle-receiving portion, through which the idler axle enters the body, and an axle-securing portion which receives the idler axle after the axle-receiving portion, operable to secure the idler axle within the idler mount. The idler axle-receiving portion being linear initially for ease of insertion and the axle-securing portion includes at least one notch on an inner side thereof for receiving the idler axle. Furthermore, the idler mount is in the form of a mounting bracket mountable to a mounting frame on a conveyor frame.



21: 2022/08285. 22: 2022/07/25. 43: 2025/01/10
51: G01R

71: Eaton Intelligent Power Limited

72: BHUTADA, Pradeep, VAN DEN BOGAARD, Wilhelmus, MORSKIEFT, Elisabeth, RAJWADE, Yogesh, SHIRSATH, Tejaswini Shirsath, LAMMERS, Adri

33: IN 31: 201911054653 32: 2019-12-31

54: SENSOR PART FOR INSTALLATION IN MEDIUM-VOLTAGE CABLE COMPARTMENTS AND A DEVICE FOR MEASURING A VOLTAGE IN MEDIUM-VOLTAGE CIRCUITS COMPRISING SUCH SENSOR PART

00: -

Sensor part for installation in medium-voltage cable compartments, which sensor part comprises a voltage divider based on the capacitive divider principle, which voltage divider comprises: - a first capacitor, comprising an elongate primary conductor wrapped in a dielectric material and an elongate conducting shield arranged around the dielectric material, which first capacitor has a first capacitance rating; - a second capacitor, having a second capacitance rating, which second capacitor further comprises a first lead conductively connected with

the conducting shield of the first capacitor and a second lead conductively connected to a common reference, such as earth; - a voltage output line, conductively connected with the conducting shield of the first capacitor; wherein the second capacitance rating is larger than the first capacitance rating, so that when during use the primary conductor is conductively connected with a live circuit carrying an alternating current, a measurement of a voltage between the common reference and the voltage output line can be taken as a ratio of the voltage between the live circuit and the common reference.

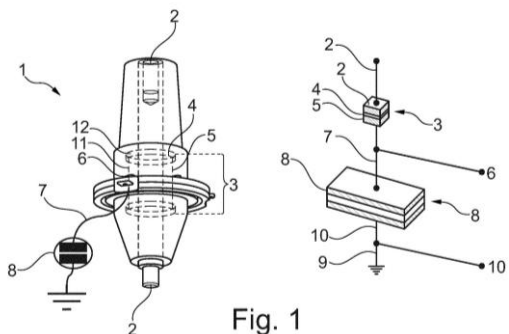


Fig. 1

21: 2022/08329. 22: 2022/07/26. 43: 2025/01/09
51: C08K; C08L

71: PMC Organometallics, Inc.

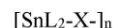
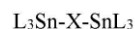
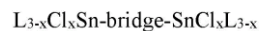
72: ROSS, Kevin John, NORRIS, Gene Kelly

33: US 31: 62/980,834 32: 2020-02-24

54: ALKYL-BRIDGED TIN-BASED THERMAL STABILIZERS FOR HALOGENATED RESINS AND SYNTHESIS AND USES THEREOF

00: -

The present invention relates to stabilizer composition for halogen-containing polymer. It has recently been found that tin-based thermal stabilizers with a bridging alkyl group between two tin centers are effective stabilizers while having effectively double the molecular weight of the corresponding non-alkyl bridged stabilizer. It is expected that ongoing experimentation will confirm that the alkyl bridged stabilizers have much lower volatility which leads to greater retention of the stabilizer in the finished article.



21: 2022/08813. 22: 2022/08/05. 43: 2025/01/09
51: C07K

71: Rhode Island Hospital

72: KURTIS, Jonathan, RAJ, Dipak K.,

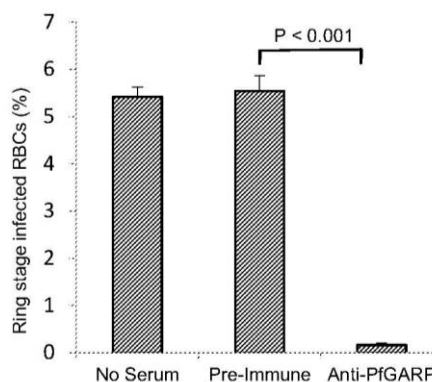
MOHAPATRA, Alok Das, ZUROMSKI, Jenna

33: US 31: 62/959,851 32: 2020-01-10

54: ANTIBODIES TO PFGARP KILL PLASMODIUM FALCIPARUM MALARIA PARASITES AND PROTECT AGAINST INFECTION AND SEVERE DISEASE

00: -

Provided herein are methods, compositions and kits for preventing and treating malaria. Also included herein are kits for preventing and treating malaria.



21: 2022/08943. 22: 2022/08/10. 43: 2025/01/10
51: H04N

71: LG ELECTRONICS INC.

72: PARK, NAE RI, NAM, JUNG HAK, JANG, HYEONG MOON

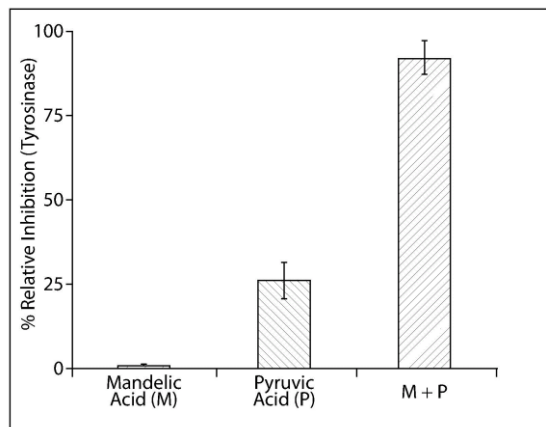
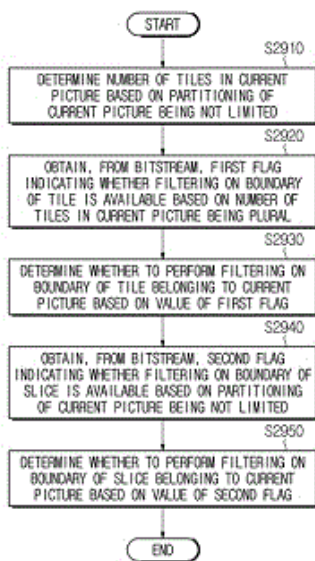
33: US 31: 62/977,060 32: 2020-02-14

54: IMAGE CODING/DECODING METHOD AND DEVICE FOR SELECTIVELY SIGNALING FILTER AVAILABILITY INFORMATION, AND METHOD FOR TRANSMITTING BITSTREAM

00: -

An image coding/decoding method and device are provided. The image decoding method carried out by

the image decoding device, according to the present disclosure, may comprise the steps of: determining the number of tiles in a current picture on the basis that the segmentation of the current picture is not restricted; on the basis that the number of tiles in the current picture is a plurality, acquiring, from a bitstream, a first flag representing whether tile boundary filtering is available; and, on the basis of the value of the first flag, determining whether to carry out filtering for the boundaries of the tiles belonging to the current picture.



21: 2022/09908. 22: 2022/09/05. 43: 2025/01/14
51: E02F

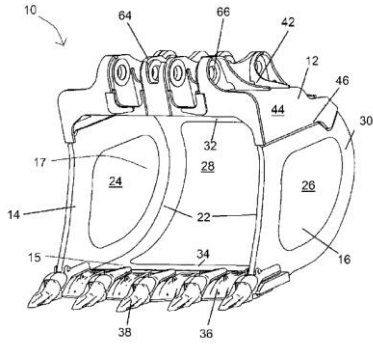
71: AUSTIN ENGINEERING LTD
72: HALL, Jamie Vincent Clarke, GREESHAW, Lyndon Brian
33: AU 31: PCT/AU2017/050483 32: 2017-05-23
54: A BUCKET AND A GROUND MOVING APPARATUS INCLUDING THE BUCKET
00: -

A bucket (10) for moving ground material, the bucket (10) comprising a handling section (12) with a mounting arrangement (64) for coupling to a machine, a load section (14) mounted on the handling section (12) such that the load section (14) is separable from the handling section (12) so that the load section (14) can be separated and replaced with another load section (14). The handling section (12) may include a mounting formation (46), and the load section (14) may include a further mounting formation (20) that is complementary to said mounting formation (46) and the mounting formation (46) is configured to receive the further mounting formation (20) therein and the mounting (20) and complementary mounting formations (46) have surfaces that are in abutment.

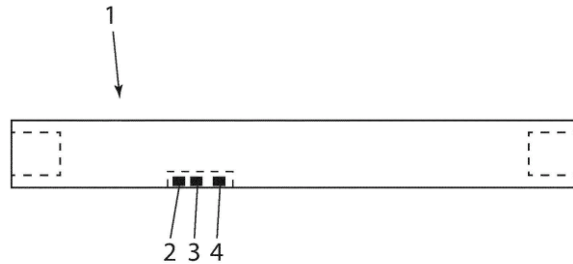
21: 2022/09781. 22: 2022/09/01. 43: 2025/01/14
51: A61K; A61Q

71: Colgate-Palmolive Company
72: LI, Min, FAN, Aixing, BOYD, Thomas, BHARDWAJ, Vinay, NESTA, Jason
33: US 31: 62/987,023 32: 2020-03-09
33: US 31: 62/987,049 32: 2020-03-09
54: PERSONAL CARE COMPOSITIONS
00: -

Described herein are personal care compositions comprising a complex comprising a plurality of short chain fatty acids; along with methods of making and using same.



00: -
 A driver socket 1 for installation of a ground reinforcement bolt, wherein the driver socket comprises a rotation sensor 2 for measuring rotation of the driver socket 1, wherein the driver socket 1 comprises a processing unit 3 configured to receive a signal from the rotation sensor 2 and configured to derive, based on the signal from the rotation sensor 2, rotation data related to the number of revolutions the driver socket 1 has been rotated.

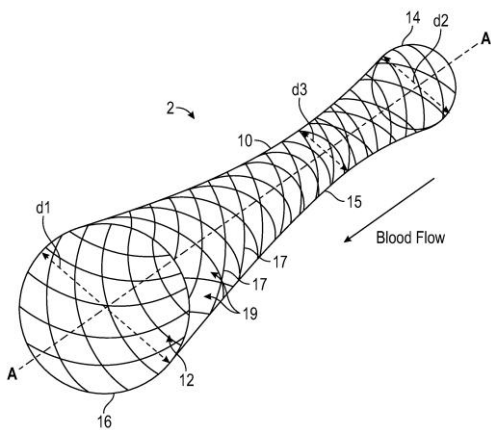


21: 2022/09927. 22: 2022/09/06. 43: 2025/02/04
 51: A61F
 71: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
 72: AMANS, Matthew
 33: US 31: 62/984,549 32: 2020-03-03
54: CEREBRAL DURAL VENOUS SINUS STENT
 00: -

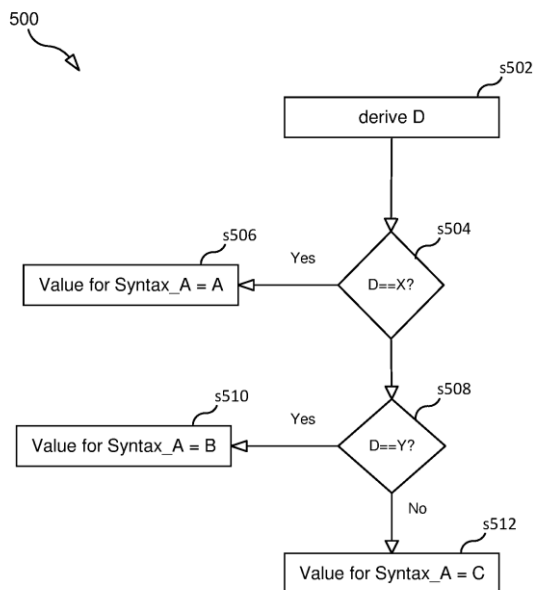
An implantable device includes a tubular member defining a longitudinal axis and a lumen. The tubular member includes a plurality of filaments defining a plurality of openings therebetween; a distal end portion having a distal diameter; a proximal end portion having a proximal diameter that is larger than the distal diameter; and an intermediate portion having an intermediate diameter that is smaller than the distal diameter.

21: 2022/10254. 22: 2022/09/15. 43: 2025/02/04
 51: H04N
 71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
 72: SJÖBERG, Rickard, PETTERSSON, Martin, DAMGHANIAN, Mitra, STRÖM, Jacob, ZHANG, Zhi, ANDERSSON, Kenneth, ENHORN, Jack
 33: US 31: 63/002,534 32: 2020-03-31
54: VIDEO PROCESSING USING SYNTAX ELEMENTS
 00: -

There is provided a method for deriving a value for a first syntax element, Syntax_A. The method comprises determining whether Syntax_A is present in a bitstream. The method comprises, as a result of determining that Syntax_A is not present in the bitstream, deriving the value for Syntax_A to be equal to a first value, B, if a first condition is satisfied, or deriving the value for Syntax_A to be equal to a second value, C, if a second condition is satisfied.



21: 2022/10210. 22: 2022/09/14. 43: 2025/01/10
 51: E21D
 71: Sandvik Mining and Construction Tools AB, Sandvik Mining and Construction Australia Pty Ltd
 72: VALLATI, Osvaldo
 33: EP(SE) 31: 20170773.4 32: 2020-04-22
54: SMART ROCK BOLT DRIVER



21: 2022/10369. 22: 2022/09/19. 43: 2025/01/13

51: F27B; F27D

71: Systems Spray-Cooled, Inc.

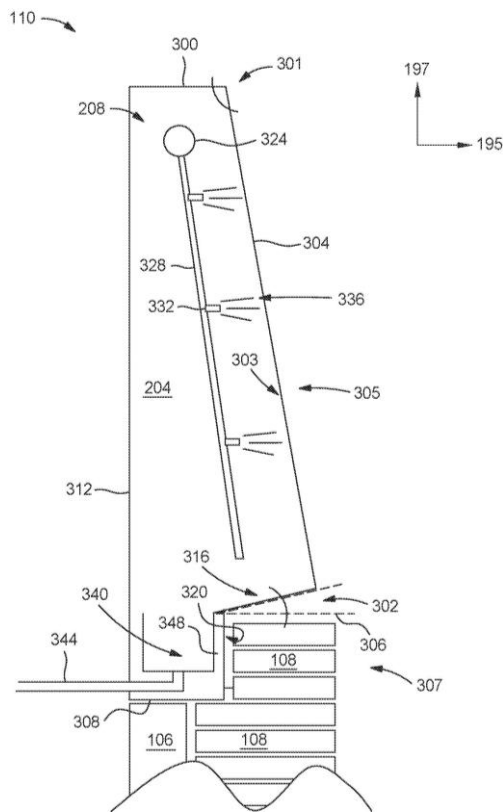
72: FERGUSON, Scott A.

33: US 31: 16/918,788 32: 2020-07-01

54: SLOPED SIDEWALL FOR A FURNACE

00: -

Described herein is a sidewall suitable for use in a metallurgical furnace, and metallurgical furnace having the same. The sidewall has an upper wall, an outer wall coupled to an outer side of the upper wall, and extending downward from the outer wall. A sloped wall is coupled to an inner side of the upper wall. The sloped wall extends downward and inward from the upper wall. The sloped wall has a first surface facing the outer wall and a second surface facing a centerline of the sidewall. A spray cooling assembly is disposed between the sloped wall and the outer wall. The spray cooling assembly is configured to spray coolant on the first surface of the sloped wall.



21: 2022/10434. 22: 2022/09/20. 43: 2025/01/29

51: A01N; C07D

71: Syngenta Crop Protection AG

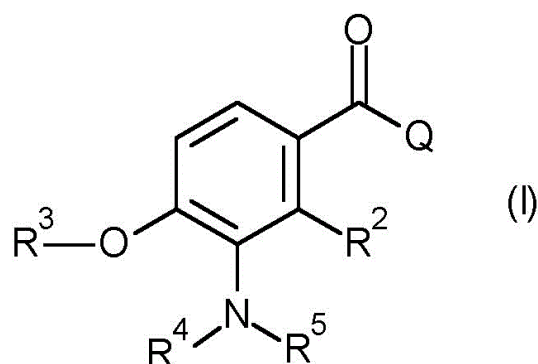
72: BURTON, Paul Matthew, MITCHELL, Glynn, RAJAN, Ramya, EMERY, Katie, TAYLOR, Nicholas John

33: IN 31: 202011016632 32: 2020-04-17

54: HERBICIDAL COMPOUNDS

00: -

The present invention related to compounds of Formula (I) or an agronomically acceptable salt thereof, wherein Q, R², R³, R⁴ and R⁵ are as described herein. The invention further relates to compositions comprising said compounds, to methods of controlling weeds using said compositions, and to the use of Compounds of Formula (I) as a herbicide.



21: 2022/11122. 22: 2022/10/11. 43: 2025/01/24

51: A01N; A01P

71: CORTEVA AGRISCIENCE LLC

72: AVILA-ADAME, CRUZ, MEYER, KEVIN,
SLANEC, TOM, YAO, CHENGLIN

33: US 31: 63/025,923 32: 2020-05-15

54: SYNERGISTIC FUNGICIDAL INTERACTIONS OF A PICOLINAMIDE FUNGICIDE WITH OTHER FUNGICIDES AGAINST ASIAN SOYBEAN RUST

00: -

The present technology relates to synergistic fungicidal mixtures comprising a fungicidally effective amount of a compound of Formula I and one or two additional fungicides selected from the group consisting of: a MET III Qi inhibitor, a succinate dehydrogenase inhibitors (SDHI), a MET III Qo inhibitor, a multi-site inhibitor (MSI), a sterol biosynthesis inhibitors (SBI) and any combinations thereof, and methods and uses thereof. Such mixtures provide synergistic control of Asian soybean rust.

21: 2022/11157. 22: 2022/10/12. 43: 2025/03/10

51: A61M

71: BIOCON BIOLOGICS LIMITED

72: SHANKARSETTY, Jeevan Maddur, JANGILI, Shanthan, RAO, Ayanur Nadig Chetan, TAMBE, Shreehas Pradeep, SADASHIVA, Anu Kumar Haranahalli

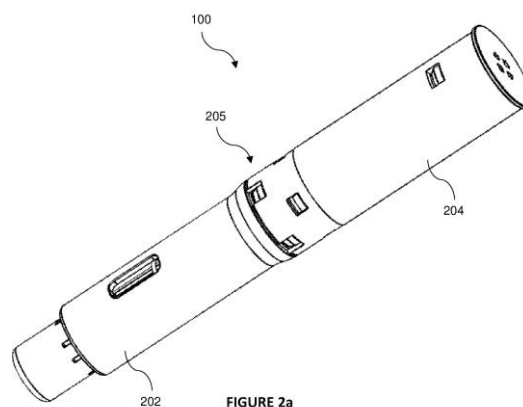
33: IN 31: 202041020640 32: 2020-05-15

54: AN AUTO-INJECTOR DEVICE FOR DELIVERING MEDICAMENTS

00: -

An auto-injector device for delivering medicaments is disclosed. The auto-injector device includes a syringe assembly having a needle adapted to expel medicaments from the syringe assembly and a barrel adapted to hold the medicaments. The syringe

assembly includes a plunger positioned coaxially with respect to the barrel and adapted to reciprocate within the barrel to expel the medicaments from the barrel. Further, the syringe assembly includes a locking member adapted to be engaged with the plunger to hold the plunger in a position with respect to the barrel. The position of the plunger with respect to the barrel is adapted to be adjusted to vary a volume of medicaments to be expelled from the barrel. The position of the plunger is adjusted by engaging the locking member with the plunger at one of a plurality of positions along a length of the plunger.



21: 2022/11158. 22: 2022/10/12. 43: 2025/03/10

51: A61M

71: BIOCON BIOLOGICS LIMITED

72: SHANKARSETTY, Jeevan Maddur, JANGILI, Shanthan, RAO, Ayanur Nadig Chetan, TAMBE, Shreehas Pradeep, SADASHIVA, Anu Kumar Haranahalli

33: IN 31: 202041020641 32: 2020-05-15

54: AUTO-INJECTOR ASSEMBLY

00: -

The auto-injector assembly (100) includes a housing (102), a syringe assembly (202) to store a predetermined volume of a drug to be administered, a needle guard (212) to surround the syringe assembly (202) such that a portion of the needle guard (212) is adapted to extend out of the housing (102) in an initial state and to retract into the housing (102) when the portion is pressed on to an injection site, a spring holder (218) to hold a dose delivery spring (216) in a compressed state, a locking unit (220) to keep the spring holder (218) in a locked state, and a plunger (222) engaged with the spring holder (218) and adapted to move towards the

syringe assembly (202) when the spring holder (218) is unlocked. A position of engagement of the plunger (222) with the spring holder (218) is adapted to change for controlling a travelling distance of the plunger (222) within the housing (102) based on the predetermined volume of the drug in the syringe assembly (202).

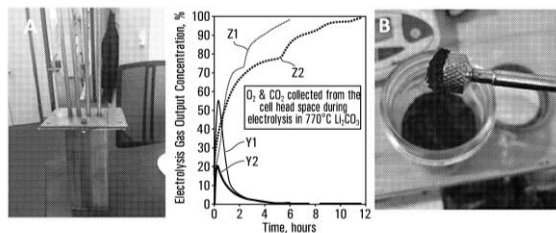
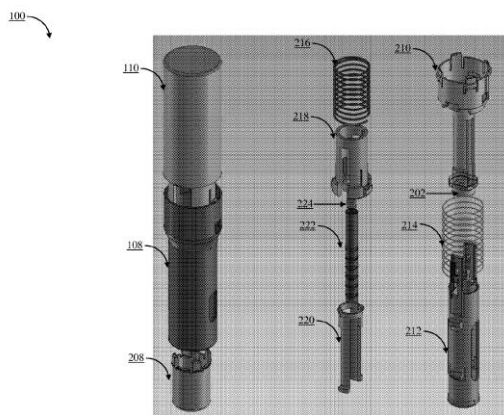


FIG. 1A

FIG. 1B

FIG. 1C

21: 2022/12019. 22: 2022/11/03. 43: 2025/01/31
 51: C07D; A61P
 71: G1 THERAPEUTICS, INC.
 72: STRUM, JAY COPELAND
 33: US 31: 63/027,113 32: 2020-05-19
 33: US 31: 63/085,672 32: 2020-09-30

54: CYCLIN-DEPENDENT KINASE INHIBITING COMPOUNDS FOR THE TREATMENT OF MEDICAL DISORDERS

00: -
 This invention is in the area of cell cycle inhibiting compounds for the treatment of disorders involving abnormal cellular proliferation, and include selective CDK2 inhibitors for medical therapy and their pharmaceutically acceptable salts and compositions.

21: 2022/11752. 22: 2022/10/27. 43: 2025/02/04
 51: C01B; C25B; D01F
 71: C2CNT LLC
 72: LICHT, Stuart
 33: US 31: 63/022,284 32: 2020-05-08

54: MAGNETIC CARBON NANOMATERIALS AND METHODS OF MAKING SAME

00: -
 The embodiments of the present disclosure relate to a method and apparatus for producing a magnetic carbon nanomaterial product that may comprise carbon nanotubes (CNTs) at least some of which are magnetic CNTs (mCNTs). The method and apparatus employ carbon dioxide (CO₂) as a reactant in an electrolysis reaction in order to make mCNTs. In some embodiments of the present disclosure, a magnetic additive component is included as a reactant in the method and as a portion of one or more components in the system or composition to facilitate a magnetic material addition process, a carbide nucleation process or both during the electrosynthesis reaction for making magnetic carbon nanomaterials.

21: 2022/12032. 22: 2022/11/03. 43: 2025/02/11
 51: A61F; A61M
 71: MEDITATI PTY LTD
 72: PRICE, Tonia
 33: AU 31: 2020901683 32: 2020-05-25

54: DEPLOYMENT DEVICE FOR AN INSERTABLE AND ASSOCIATED METHODS

00: -
 The present invention is directed to delivery device for deploying an insertable into an orifice guided by digit, the delivery device comprising: insertable orientation means adapted to orient the insertable in a deployment orientation and digit orientation means adapted to orient a portion of at least one digit in a navigation orientation, the insertable orientation means and the digit orientation means adjoined across a partition with a partition cross-section, and the deployment orientation and the navigation orientation arranged for digit guided deployment of the insertable into the orifice. Also disclosed is a method of deploying an insertable into an orifice guided by digit, using the delivery device of the present invention. The delivery device and method of the present invention are well suited to deploying tampons into the vaginal cavity.

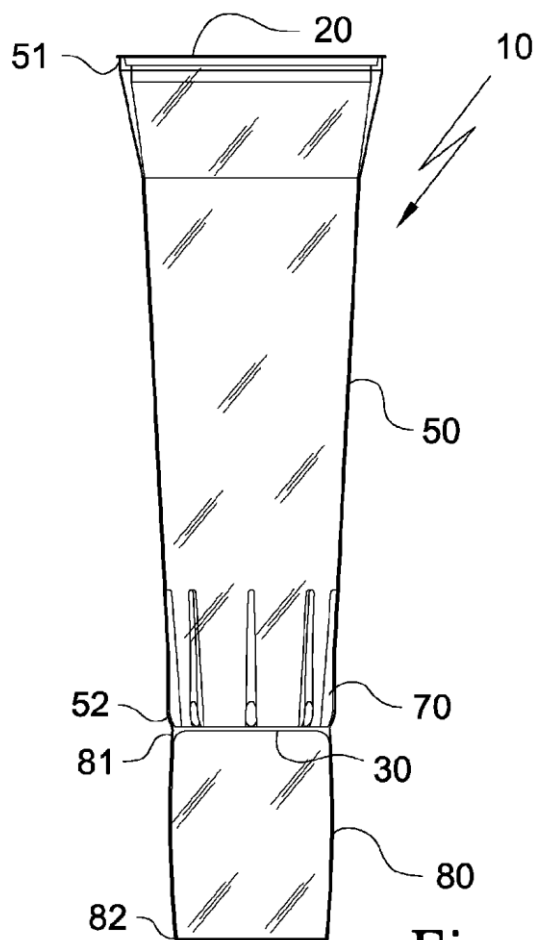
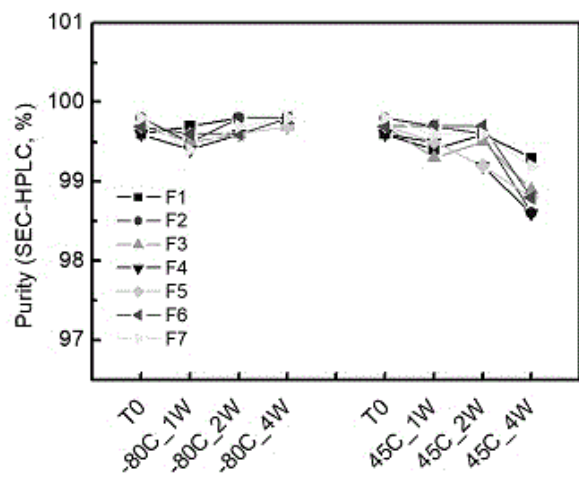


Fig. 1



21: 2022/12115. 22: 2022/11/07. 43: 2025/01/10
 51: F03B; E02B; F03G
 71: LONE GULL HOLDINGS, LTD.
 72: MOFFAT, BRIAN LEE, SHELDON-COULSON, GARTH ALEXANDER
 33: US 31: 62/809,566 32: 2019-02-23
 33: US 31: 62/971,963 32: 2020-02-08
 33: US 31: 62/834,964 32: 2019-04-17
 33: US 31: 16/796,724 32: 2020-02-20
54: WAVE-ENERGIZED DIODE PUMP
 00: -

Disclosed is an apparatus that floats at the surface of a body of water over which waves pass. Passing waves cause a nominally vertical axis of the apparatus to tilt away from an axis normal to the resting surface of the body of water. Tilting of sufficient magnitude and duration allows a fluid to flow through a channel. Flowing water is trapped at a plurality of levels which in an un-tilted apparatus are higher than the respective levels from which the fluid has flowed. A subsequent tilt of the apparatus in a sufficiently different direction, and of a sufficient magnitude and duration, causes the trapped water to flow to new, yet higher levels. Successive wave-driven tilts of the apparatus incrementally raise water to a height and/or head from which a portion of its gravitational potential energy can be released, and/or converted to electrical power.

21: 2022/12081. 22: 2022/11/04. 43: 2025/01/31
 51: A61K; C07K; A61P
 71: SINOCELLTECH LTD.
 72: HU, PING, LIU, YAN, SUN, CHUNYUN, HUAI, QINGRU, TIAN, SHAOMEI, TAO, MINGZHEN
 33: CN 31: 202010566153.8 32: 2020-06-19
54: STABLE FORMULATION FOR RECOMBINANT ANTI-PD-1 MONOCLONAL ANTIBODY
 00: -
 Provided is a stable formulation for a recombinant monoclonal antibody, consisting of a recombinant anti-PD-1 monoclonal antibody, a buffer, an osmotic pressure regulator, a stabilizer, and a surfactant. The pharmaceutical formulation may enhance the stability of the antibody, and prolongs a validity period of the antibody in aqueous formulations.

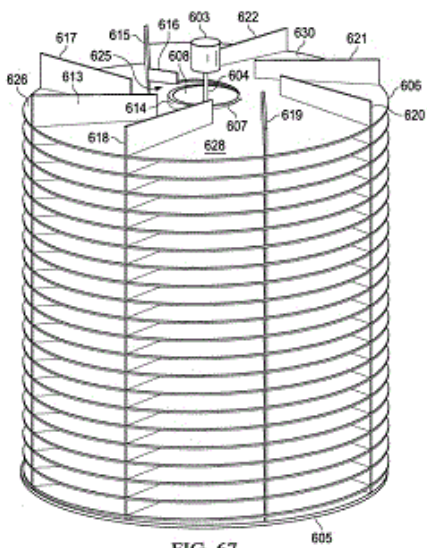
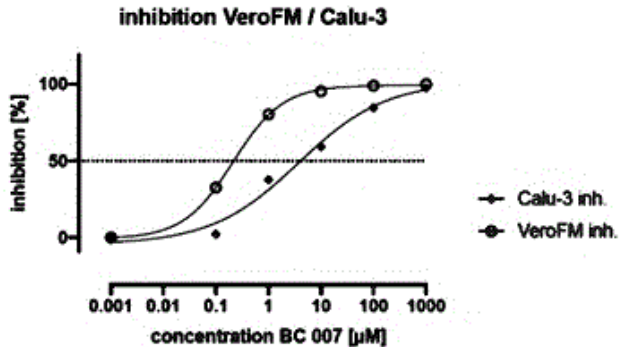
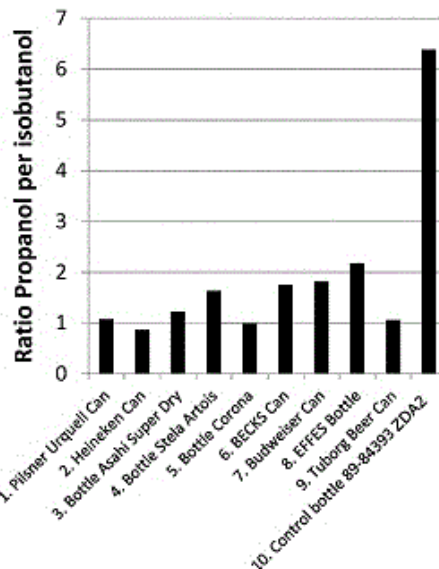


FIG. 67



21: 2022/12298. 22: 2022/11/10. 43: 2025/01/31
 51: C12C; C12R
 71: CARLSBERG A/S
 72: LENGELER, KLAUS, KATZ, MICHAEL, FÖRSTER, JOCHEN, FENNESSY, ROSS, GJERMENSEN, CLAES, CHAILYAN, ANNA
 33: EP 31: 20183134.4 32: 2020-06-30
54: LOW DIACETYL YEAST

00: -
 The present invention relates to yeast strains of the species *Saccharomyces pastorianus* with the useful characteristic of producing low levels of diacetyl during fermentation. Also provided are methods of producing a malt and/or cereal based beverage with these strains, as well as beverages produced by this method.



21: 2022/12327. 22: 2022/11/11. 43: 2025/01/31
 51: A61K; A61P
 71: GERON CORPORATION
 72: STUART, MONIC J, KELSEY, STEPHEN

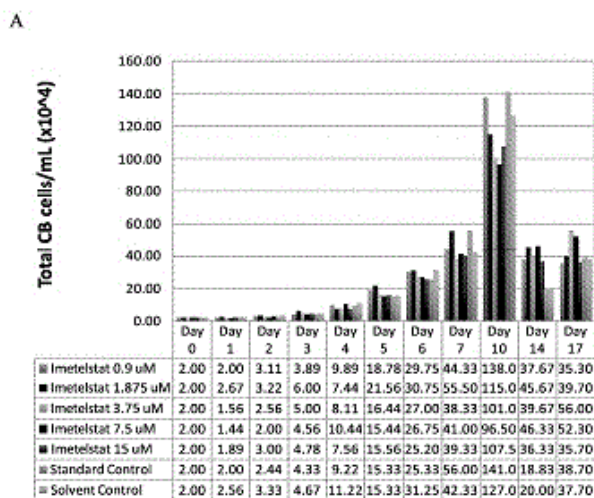
21: 2022/12179. 22: 2022/11/08. 43: 2025/01/31
 51: C12N; A61K
 71: BERLIN CURES GMBH
 72: HABERLAND, ANNEKATHRIN, MÜLLER, JOHANNES, WALLUKAT, GERD, GÖTTEL, PETER
 33: EP 31: 20168929.6 32: 2020-04-09
 33: EP 31: 20176023.8 32: 2020-05-22
 33: EP 31: 20204036.6 32: 2020-10-27
 33: EP 31: 20180781.5 32: 2020-06-18
54: APTAMERS FOR USE IN THE TREATMENT OF CORONAVIRIDAE INFECTIONS
 00: -

The present invention relates to new aptamer molecules for use in therapy of infections caused by viruses from the Coronaviridae family, a method of preventing infection caused by viruses from the Coronaviridae family in vitro/ex vivo, a pharmaceutical composition and a kit comprising such aptamer molecules, and the use of aptamer molecules for preventing infection of somatic cells with a virus from the Coronaviridae family. The present invention also relates to affinity molecules binding to specific and newly identified epitopes of a key enzyme of Coronaviridae viruses.

33: US 31: 13/841,711 32: 2013-03-15
 33: US 31: 61/799,069 32: 2013-03-15
 33: US 31: 61/734,941 32: 2012-12-07
 33: US 31: 61/900,347 32: 2013-11-05

54: USE OF TELOMERASE INHIBITORS FOR THE TREATMENT OF MYELOPROLIFERATIVE DISORDERS AND MYELOPROLIFERATIVE NEOPLASMS

00: -
 Provided herein are methods for reducing neoplastic progenitor cell proliferation and alleviating symptoms associated in individuals diagnosed with or thought to have myeloproliferative disorders, such as Essential Thrombocythemia (ET). Also provided herein are methods for using telomerase inhibitors for maintaining blood platelet counts at relatively normal ranges in the blood of individuals diagnosed with or suspected of having myeloproliferative disorders, such as ET.



21: 2022/12328. 22: 2022/11/11. 43: 2025/01/31
 51: A61K
 71: RVL PHARMACEUTICALS, INC.
 72: DEVRIES, TINA, JACOBS, DAVID
 33: US 31: 16/716,014 32: 2019-12-16
 33: US 31: 62/844,069 32: 2019-05-06
 33: US 31: 16/715,998 32: 2019-12-16
 33: US 31: 62/843,819 32: 2019-05-06

54: OXYMETAZOLINE COMPOSITIONS AND METHODS FOR TREATING OCULAR DISORDERS

00: -
 The present disclosure is directed to compositions comprising oxymetazoline and methods of stabilizing oxymetazoline compositions for long-term storage.

The present disclosure is also directed to compositions comprising oxymetazoline and methods of treating various eye disorders related to drooping eyelids, such as ptosis, in a subject comprising administering to the subject compositions comprising oxymetazoline.

21: 2022/12351. 22: 2022/11/11. 43: 2025/01/31
 51: A01N; A01P
 71: QURES GROUP LTD
 72: STEAD, RICHARD
 33: GB 31: 2005432.6 32: 2020-04-14

54: SOLID COMPOSITION FOR PRODUCING ANTIBACTERIAL, ANTIVIRAL, ANTIFUNGAL AND DISINFECTANT SOLUTIONS

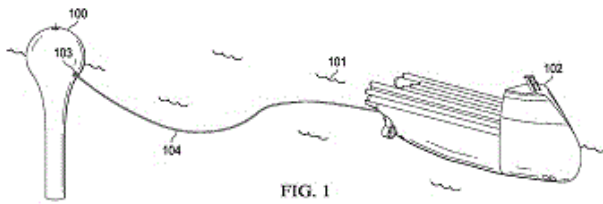
00: -
 A solid composition comprising: (a) an immobilized or non-immobilized peroxidase enzymatic catalysing agent; (b) an oxidizable substrate selected from: (i) negatively charged halogens and their derivatives, or (ii) pseudohalogens and their derivatives; (c) at least one oxidising agent; (d) optionally at least one inert filler; and (e) optionally a buffer system.

21: 2022/12397. 22: 2022/11/14. 43: 2025/01/31
 51: F03B
 71: LONE GULL HOLDINGS, LTD.
 72: SHELDON-COULSON, GARTH ALEXANDER, MOFFAT, BRIAN LEE, PLACE, DANIEL WILLIAM, THORSON, IVAR LEE
 33: US 31: 17/320,541 32: 2021-05-14
 33: US 31: 63/060,145 32: 2020-08-03
 33: US 31: 63/186,709 32: 2021-05-10
 33: US 31: 63/026,670 32: 2020-05-18

54: HYDROGEN PRODUCTION AND CONVEYANCE SYSTEM

00: -
 A system and method by which energy from ocean waves is converted into hydrogen, and that hydrogen is used to manifest electrical and mechanical energies by an energy consuming device. A portion of the generated electrical power is communicated to water electrolyzers which produce oxygen and hydrogen from water as gases. At least a portion of the generated hydrogen gas is transferred to a transportation ship via a hose-carrying, remotely operated (or otherwise unmanned) vehicle, and subsequently transferred to an energy-consuming module or infrastmctur, where a portion of the hydrogen is consumed in order to

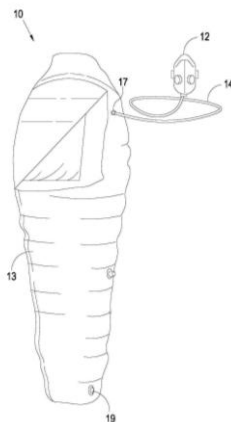
manifest a generation of electrical energy, a mechanical motion, and/or a chemical reaction.



21: 2022/12436. 22: 2022/11/15. 43: 2025/01/20
 51: A47C; F16K; F16L
 71: BUDRICKS, Francois Johannes
 72: BUDRICKS, Francois Johannes
 33: ZA 31: 2021/06823 32: 2021-09-17

54: Body heating equipment

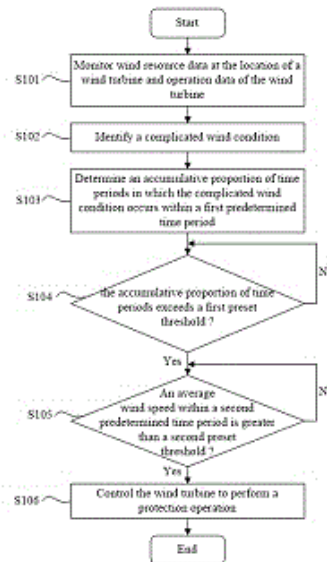
00: -
 This invention relates to body heating equipment 10 which is configured to make use of exhaled breath as a heat source. The body heating equipment 10 includes a mask 12 which is configured to be worn over a nose and mouth of a user 20, an inflatable article in the form of a sleeping bag 13 which defines an inlet 17 having a one-way inlet valve which regulates airflow into an inflatable inner cavity of the sleeping bag 13, and a flexible tube or hose 14 which operatively interconnects the mask 12 and the inflatable article 13. In use, the user would climb into the sleeping bag 13 whilst wearing the mask 12. Whilst sleeping, hot exhaled breath enters the sleeping bag 13, raising the temperature and thus serving as a heat source and increasing a comfort factor of the sleeping bag 13.



21: 2022/12507. 22: 2022/11/16. 43: 2025/01/17

51: F03D
 71: GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.
 72: ZHOU, JIE, ALI, WAQAR, CAO, XUEMING, HAO, WEIDONG
 33: CN 31: 202010606858.8 32: 2020-06-29
54: WIND TURBINE GENERATOR SYSTEM, AND CONTROL METHOD, CONTROLLER AND CONTROL SYSTEM THEREFOR

00: -
 A wind turbine generator system, and a control method, controller and control system therefor. The control method for a wind turbine generator system comprises: monitoring wind resource data of the location of a wind turbine generator system, and operation data of the wind turbine generator system; identifying a complex wind condition according to the wind resource data and the operation data; determining the cumulative time ratio of the complex wind condition occurring within a first predetermined time period; and in response to the cumulative time ratio exceeding a first preset threshold value, controlling the wind turbine generator system to perform a protection operation. The present invention can effectively reduce fatigue accumulation of a wind turbine generator system, reduce the operation risk thereof, ensure the safe working of the wind turbine generator system under a complex wind condition, and improve the adaptability of the wind turbine generator system to complex wind conditions.



21: 2022/12568. 22: 2022/11/17. 43: 2025/01/17

51: B25D; E21B; F16J

71: Sandvik Mining and Construction Oy

72: KOSKIMÄKI, Mr. Antti, KANDELIN, Mr. Lars,

HÄMÄLÄINEN, Mr. Mikko, KELA, Mr. Timo,

VIINIKKA, Mr. Matti, LÄÄKKÖLÄ, Mr. Esa

33: EP(FI) 31: 20177658.0 32: 2020-06-01

54: PISTON GUIDING ELEMENT, ROCK DRILLING MACHINE AND METHOD

00: -

A piston guiding element, rock drilling machine and method for supporting a front end portion of a percussion piston of a rock drilling machine. The element (20) comprises a braking recess (16) at its rear end (24). The element further comprises at least one bearing sleeve (29) which is provided with two axially successive slide bearing sections (AS1, AS2). Hydraulic fluid is conveyed between the slide bearing sections via a feed system (21).

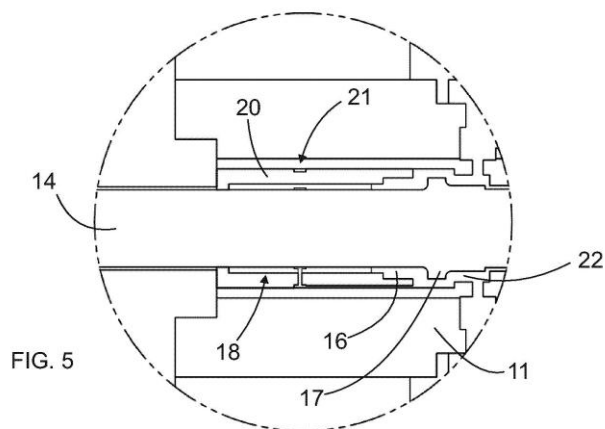


FIG. 5

21: 2022/12752. 22: 2022/11/23. 43: 2025/01/17

51: A61K; A61P; C07D

71: DR. FALK PHARMA GMBH, ZEDIRA GMBH

72: GREINWALD, ROLAND, HILS, MARTIN,

MOHR, WOLFGANG, PASTERNAK, RALF,

TEWES, BERNHARD, WILHELM, RUDOLF

33: EP 31: 20171441.7 32: 2020-04-24

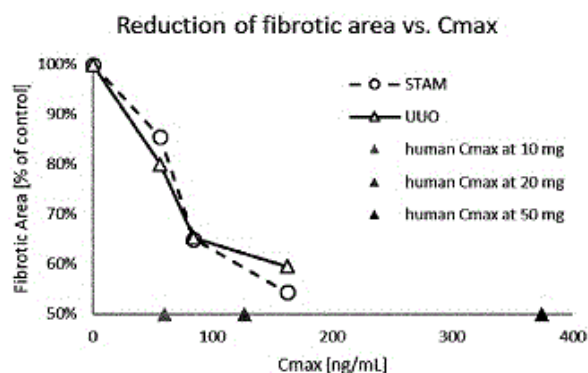
33: EP 31: 20211697.6 32: 2020-12-03

54: SYSTEMIC FORMULATION OF A PYRIDINONE DERIVATE FOR TG2-RELATED DISEASES

00: -

The present invention relates to a formulation in particular an oral formulation for the prophylaxis and treatment of TG2-related disorders like fibrosis in particular diabetic nephropathy and/or diabetic associated non-alcoholic steatohepatitis (NASH) and/or non-alcoholic steatohepatitis, and its use in the prophylaxis and/or treatment of fibrosis in

particular nephropathy, NASH, idiopathic pulmonary fibrosis, and cystic fibrosis. Further, the present application relates also to the use of (S,E)-methyl-7-(1-(2-(2-ethylbutylamino)-2-oxoethyl)-2-oxo-1,2-dihydro-pyridin-3-ylamino)-6-(1-methyl-1H-imidazole-5-carboxamido)-7-oxohept-2-enoate as hepatoprotectant, i.e. as hepatoprotective agent. In addition the present invention relates to a pharmaceutical composition comprising (S,E)-methyl-7-(1-(2-(2-ethylbutylamino)-2-oxoethyl)-2-oxo-1,2-dihydro-pyridin-3-ylamino)-6-(1-methyl-1H-imidazole-5-carboxamido)-7-oxohept-2-enoate for use as hepatoprotective agent and for use in the protection of the liver against liver toxicity, the improvement of liver function, and/or in the prophylaxis or treatment of a liver disease or liver disorder.



21: 2022/12801. 22: 2022/11/24. 43: 2025/01/17

51: B01D; B01J; C09C

71: TOPSOE A/S

72: LYKKE, MADSEN, REYNOLDS JR, GORDON R

33: US 31: 63/037,991 32: 2020-06-11

54: CATALYTIC OXIDATION OF CARBON BLACK EXHAUST GAS

00: -

Method for treating a carbon black tail gas wherein the carbon black tail gas is catalytically oxidized to produce an oxidized tail gas. The oxidized tail gas is then treated to remove particulate matter and sulfur oxides. If present, nitrogen oxides can be also removed.

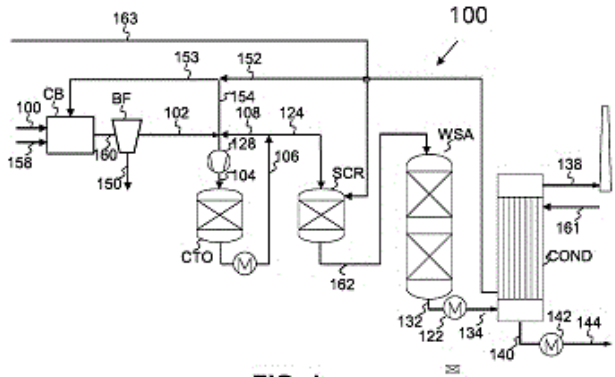


FIG. 1

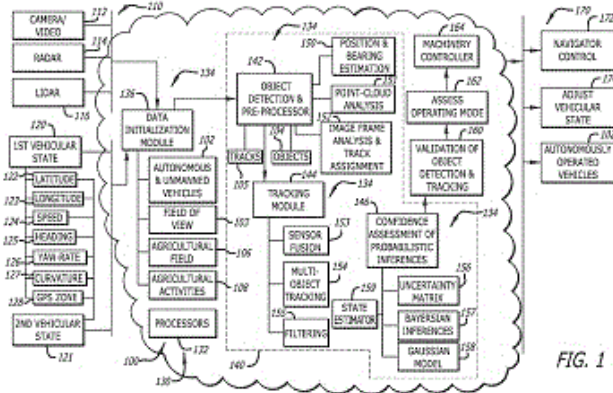


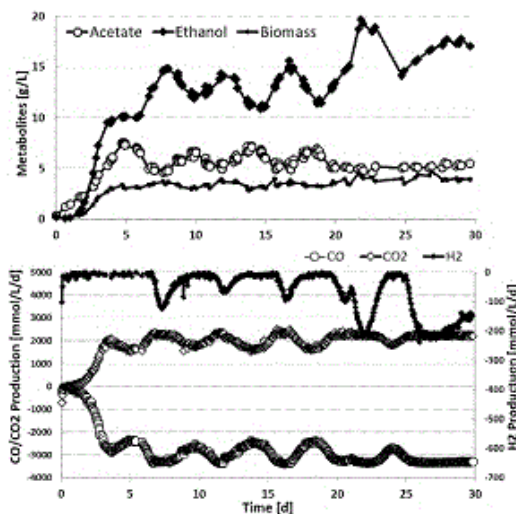
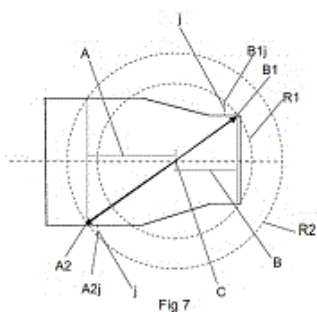
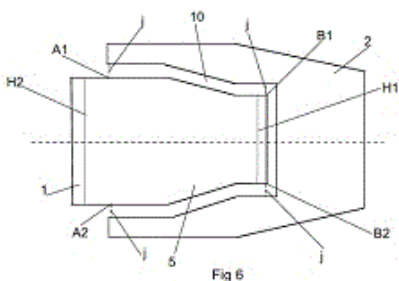
FIG. 1

21: 2022/12860. 22: 2022/11/25. 43: 2025/01/17
 51: G01S; G06K; G05D
 71: RAVEN INDUSTRIES, INC
 72: RAMAKRISHNAN, RAHUL, ALIBASIC, AZIZ, ANTONY, THOMAS, PAGA, VENKATA RAMA KARTHIK
 33: US 31: 63/016,738 32: 2020-04-28
54: OBJECT DETECTION AND TRACKING FOR AUTOMATED OPERATION OF VEHICLES AND MACHINERY

00: -
 A framework for safely operating autonomous machinery, such as vehicles and other heavy equipment, in an in-field or off-road environment, includes detecting, identifying, and tracking objects from on-board sensors configured with the autonomous machinery as it performs activities in either an agricultural setting or a transportation environment. The framework generates commands for navigational control of autonomously-operated vehicles in response to detected objects and predicted tracks thereof for safe operation in the performance of those activities. The framework processes image data and range data in multiple fields of view around the autonomously-operated to discern and track objects in a deep learning to accurately interpret this data for determining and effecting such navigational control.

21: 2022/12972. 22: 2022/11/29. 43: 2025/01/17
 51: E02F
 71: METALOGENIA RESEARCH & TECHNOLOGIES S.L.
 72: TORRES MONTALVO, RAÚL, GIMENO TORDERA, ALBERT, SÁNCHEZ GUIADO, FERMÍN
 33: EP 31: 20382649.0 32: 2020-07-17
54: ADAPTER AND WEAR ELEMENT WITH A PIN ARRANGED AT A LOW STRESS POINT

00: -
 The invention relates to an adapter and a wear element of a shovel of an earth moving machine attached to one another by means of a pin, wherein the pin is positioned at a point such that, as there is relative rotation between the wear element and the adapter, due to the application of both a force according to direction Y applied on a point B1 and directed towards a point B2 and a force according to direction Y applied on point B2 and directed towards point B1, the support surfaces of the adapter and of the wear element contact one another before the pin is subjected to stresses. The stresses the pin must withstand are thereby reduced.



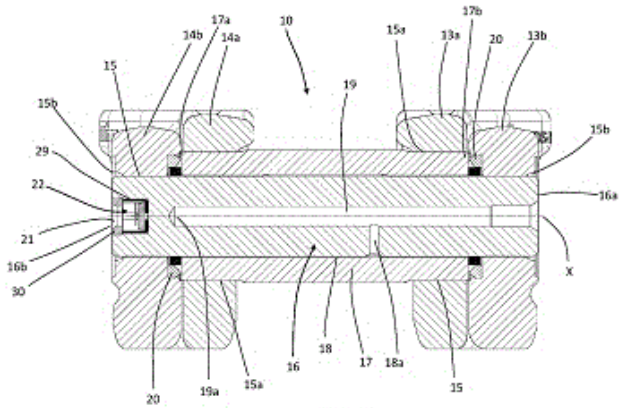
21: 2022/13050. 22: 2022/12/01. 43: 2025/01/16
 51: C12N; C12P
 71: LANZATECH, INC.
 72: LEANG, CHING
 33: US 31: 63/035,739 32: 2020-06-06

54: MICROORGANISM WITH KNOCK-IN AT ACETOLACTATE DECARBOXYLASE GENE LOCUS

00: -
 Provided herein is a genetically engineered microorganism comprising knock-in of DNA at an acetolactate decarboxylase gene locus. Replacement of the acetolactate decarboxylase gene with DNA encoding one or more native or nonnative enzymes confers certain advantages, including fermentation stability and increased production of native and nonnative products from gaseous substrates.

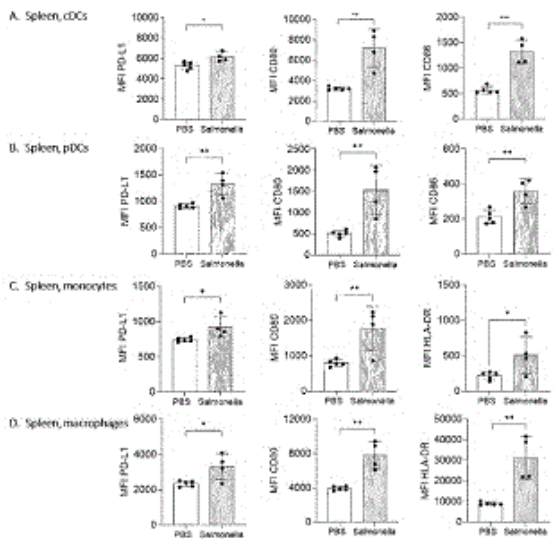
21: 2022/13170. 22: 2022/12/05. 43: 2025/01/17
 51: F16G
 71: ITALTRACTOR ITM S.P.A.
 72: MORETTI, NICOLAS, CALIA, EUSTACHIO
 33: IT 31: 102020000012427 32: 2020-05-26
54: CHAIN PIN ASSEMBLY
 00: -

The present invention describes a track pin assembly (10) comprising a pin (16) comprising a first axial end (16a) and a second axial end (16b) configured to engage a respective outer link (13b, 14b) of a joint (12), a first cavity (19) which defines a tank for containing lubricating oil or grease, a second cavity (21) arranged at the second axial end (16b) of the pin (16) and open at the second axial end (16b) of the pin (16), a sensor (22) arranged in the second cavity (21) and comprising a sensor element (23), configured to measure a temperature and to generate a signal indicative of the measured temperature, and a transmitter (24) configured to irradiate a measuring signal that is representative of the signal generated by the sensor element (23), a power source (25) configured to constantly supply the sensor and arranged in the second cavity.



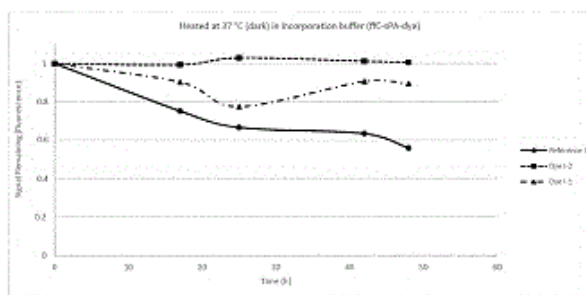
21: 2022/13270. 22: 2022/12/07. 43: 2025/01/17
 51: A61K; A61P; C07K
 71: PROKARIUM LIMITED
 72: DEBAN, LIVIJA, LEVITSKY, HYAM
 33: EP 31: 20184698.7 32: 2020-07-08
 33: US 31: 63/037,179 32: 2020-06-10
54: CANCER THERAPY
 00: -

The present invention relates to the field of cancer therapy. In particular, the present invention relates to a live attenuated Gram-negative bacterium for use in the treatment, reduction, inhibition or control of a neoplastic disease in a subject undergoing or intended to undergo immunotherapy with a checkpoint inhibitor therapy, an adoptive T cell therapy and/or an allogeneic or an autologous CAR-T therapy simultaneously, separately or sequentially with the administration of the live attenuated Gram-negative bacterium.



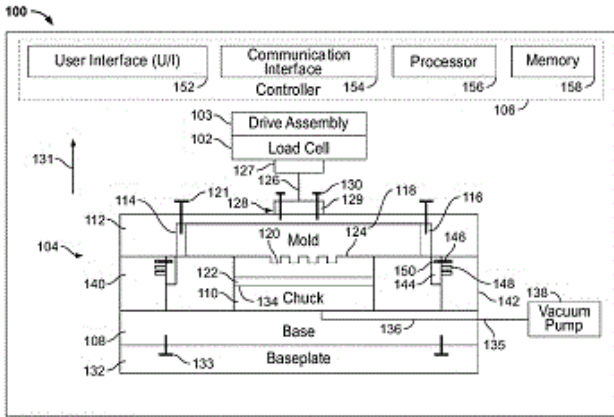
21: 2022/13353. 22: 2022/12/09. 43: 2025/01/17
 51: C07D; C09B; C09K; C12Q
 71: ILLUMINA CAMBRIDGE LIMITED
 72: ROMANOV, NIKOLAI NIKOLAEVICH, CALLINGHAM, MICHAEL, ANASTASI, CAROLE, MCCAULEY, PATRICK, HYNES, NIALL, CRAKE, NATASHA, WU, XIAOLIN, LIU, XIAOHAI
 33: US 31: 63/057,758 32: 2020-07-28
54: SUBSTITUTED COUMARIN DYES AND USES AS FLUORESCENT LABELS
 00: -

The present application relates to substituted coumarin derivatives and their uses as fluorescent labels. These compounds may be used as fluorescent labels for nucleotides in nucleic acid sequencing applications.



21: 2022/13355. 22: 2022/12/09. 43: 2025/01/17
 51: G03F; B82Y; B29C
 71: ILLUMINA, INC.
 72: RAPP, MICHAEL, MERKEL, TIMOTHY, ZAK, AUDREY
 33: US 31: 63/073,423 32: 2020-09-01
54: FIXTURES AND RELATED IMPRINTING SYSTEMS AND METHODS
 00: -

Fixtures and related system and methods are disclosed. In accordance with an implementation, a method includes applying a resin (124) onto a substrate (122) and positioning the substrate over a chuck (110) of a base (108) of a fixture (104). The method also includes moving a mold (118) into engagement with the resin and curing the resin. The method also includes detaching the mold and the resin and, while detaching the mold and the resin, determining a detachment force applied as a function of a distance of detachment between the mold and the resin.



21: 2022/13364. 22: 2022/12/09. 43: 2025/01/17
51: C12Q

71: ILLUMINA, INC., ILLUMINA CAMBRIDGE LIMITED

72: BACIGALUPO, MARIA CANDELARIA ROBERT, STEEMERS, FRANK, FISHER, JEFFREY, SLATTER, ANDREW, KRAFT, LEWIS, GORMLEY, NIALL, BOWEN, M. SHANE

33: US 31: 63/048,347 32: 2020-07-06

54: SEPARATING POLYNUCLEOTIDE FRAGMENTS

00: -

Provided is a method, including stretching a polynucleotide over a substrate including a plurality of equally spaced cleavage regions including a plurality of transposases, cleaving the polynucleotide with two or more of the plurality of transposases to form a plurality of polynucleotide fragments, and separating, within the plurality of polynucleotide fragments, a population of longer polynucleotide fragments from a population of shorter polynucleotide fragments. Also provided is a method including stretching a polynucleotide over a substrate including a plurality of equally spaced cleavage regions including a plurality of transposases, cleaving the polynucleotide with two or more of the plurality of transposases to form a plurality of polynucleotide fragments, and separating, within the plurality of polynucleotide fragments, a population of longer polynucleotide fragments from a population of shorter polynucleotide fragments.

21: 2022/13367. 22: 2022/12/09. 43: 2025/01/17
51: C12Q

71: ILLUMINA, INC., ILLUMINA CAMBRIDGE LIMITED

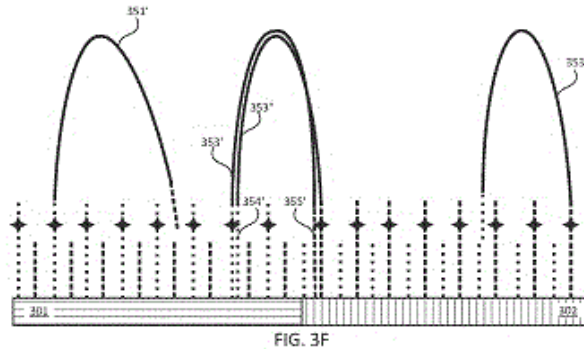
72: FISHER, JEFFREY, BETLEY, JASON

33: US 31: 63/077,857 32: 2020-09-14

54: COMPOSITIONS AND METHODS FOR AMPLIFYING POLYNUCLEOTIDES

00: -

A composition for amplifying a polynucleotide is provided that includes a substrate comprising a first region and a second region. A first plurality of capture primers is coupled to the first region of the substrate. A second plurality of capture primers is coupled to the second region of the substrate. The capture primers of the second plurality of capture primers are longer than the capture primers of the first plurality of capture primers. A first plurality of orthogonal capture primers are coupled to the first region of the substrate. A second plurality of orthogonal capture primers are coupled to the second region of the substrate. The orthogonal capture primers of the second plurality of orthogonal capture primers are shorter than the orthogonal capture primers of the first plurality of orthogonal capture primers.



21: 2022/13369. 22: 2022/12/09. 43: 2025/01/17
51: G01N; C12Q

71: ILLUMINA, INC., ILLUMINA SINGAPORE PTE. LTD.

72: PANTOJA, RIGO, ORTIZ, DANIEL, YANG, XIANGYUAN, TEO, YIN NAH, VERMAAS, ERIC, ECKHARDT, ALLEN

33: US 31: 63/077,416 32: 2020-09-11

54: DETECTING NUCLEIC ACIDS USING SUGAR-LECTIN COUPLINGS

00: -

A method is provided for detecting an element. The method includes coupling an element-sugar complex to a substrate. The element-sugar complex includes an element coupled to a sugar. The method includes coupling a lectin to the sugar; detecting the lectin; and detecting the element using at least the

detection of the lectin. A system is provided that includes a substrate, and an element-sugar complex coupled to the substrate. The element-sugar complex includes an element coupled to a sugar. The system includes a lectin coupled to the sugar; and detection circuitry to detect the element using at least detection of the lectin.

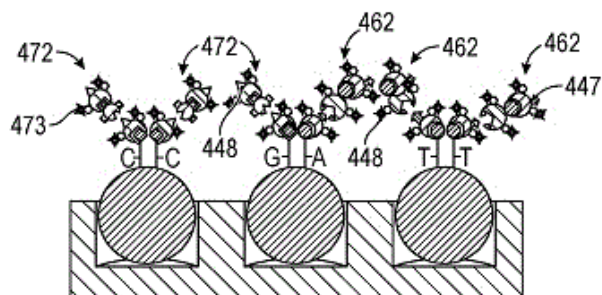


FIG. 4D

21: 2022/13370. 22: 2022/12/09. 43: 2025/01/17

51: C08F; C09D

71: ILLUMINA, INC.

72: CAMPOS, RAYMOND, MATHER, BRIAN D, RAMIREZ, SEAN M

33: US 31: 63/094,147 32: 2020-10-20

54: FLOW CELLS

00: -

A flow cell includes a substrate and a copolymer coating. The copolymer coating includes copolymer chains, each having recurring units of formula (I): and formula (II):. In formula (I), R^1 is -H, a halogen, an alkyl, an alkoxy, an alkenyl, an alkynyl, a cycloalkyl, an aryl, a heteroaryl, a heterocycle, or optionally substituted variants thereof; R^2 is an azido; each $(CH_2)_p$ can be optionally substituted; and p is an integer from 1 to 50. In formula (II), each of R^3 , R^3 , R^4 , R^4 is -H, R^5 , $-OR^5$, $-C(O)OR^5$, $-C(O)R^5$, $-OC(O)R^5$, $-C(O)NR^6R^7$, or $-NR^6R^7$; R^5 is -H, -OH, an alkyl, a cycloalkyl, a hydroxyalkyl, an aryl, a heteroaryl, a heterocycle, or optionally substituted variants thereof; and each of R^6 and R^7 is -H or an alkyl. Some copolymer chains include at least one alkoxyamine end group.

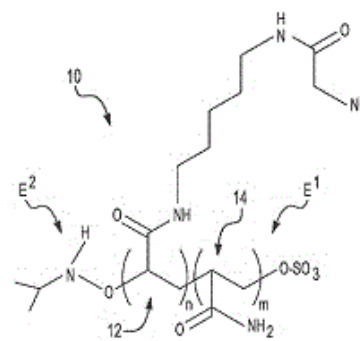
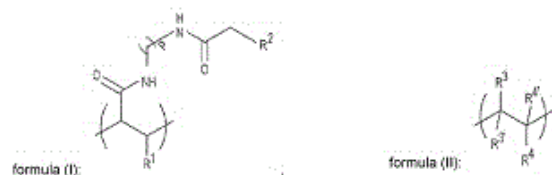


FIG. 1



formula (I):

formula (II):

21: 2022/13435. 22: 2022/12/12. 43: 2025/01/17

51: C12Q; C12M; G01N; C12N; C07H

71: RHODES UNIVERSITY

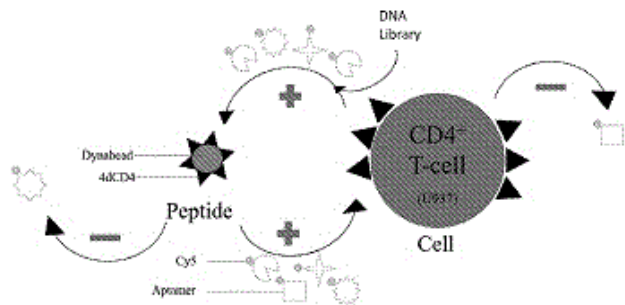
72: LIMSON, JANICE LEIGH, FOGEL, RONEN, FELLOWS, TAMIKA

33: ZA 31: 2020/03305 32: 2020-06-03

54: CD4 BINDING APTAMERS AND APPLICATIONS THEREOF

00: -

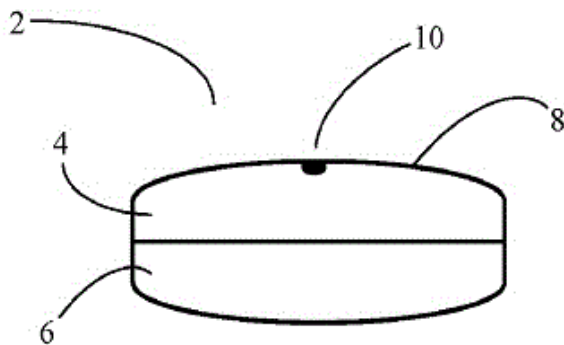
The present invention relates to aptamers having selectivity and specificity for human CD4 protein and/or cells expressing human CD4 protein. Also disclosed is a biosensor device, particularly a point-of-care biosensor device, comprising aptamers having selectivity and specificity for human CD4 protein and/or cells expressing human CD4 protein. The invention further encompasses methods of detecting human CD4 protein and/or cells expressing human CD4 protein in a sample using the aptamers or biosensor disclosed herein, comprising detecting the binding of the aptamers to human CD4 protein and/or cells expressing human CD4 protein.



21: 2022/13478. 22: 2022/12/13. 43: 2025/01/17
 51: A61K; A61P
 71: AUSPEX PHARMACEUTICALS, INC.
 72: SHAH, PARAG, JOSHI, MAYANK, PATTANAYEK, SOUMEN, PATEL, DIVYANG, PANDITA, SANDEEP
 33: US 31: 63/037,369 32: 2020-06-10
 33: US 31: 63/044,451 32: 2020-06-26
 33: US 31: 63/037,953 32: 2020-06-11

54: OSMOTIC DOSAGE FORMS COMPRISING DEUTETRABENAZINE AND METHODS OF USE THEREOF

00: -
 Provided herein are osmotic dosage forms containing deutetrabenazine for use in the treatment of, e.g., hyperkinetic movement disorders. When orally administered to a subject on a once- daily basis, the dosage forms provide a favorable pharmacokinetic profile for the active agent indicating treatment efficacy over an extended period of time.



21: 2022/13479. 22: 2022/12/13. 43: 2025/01/17
 51: A61K; A61P
 71: ZIVO BIOSCIENCE, INC.
 72: PFUND, WILLIAM P, STEFFEK, AMY E, DAHL, ANDREW A
 33: US 31: 63/044,770 32: 2020-06-26
 33: US 31: 17/358,953 32: 2021-06-25

54: POSITIVE LATENCY EFFECTS ON COCCIDIOSIS PREVENTION AND TREATMENT VIA ANIMAL FEED

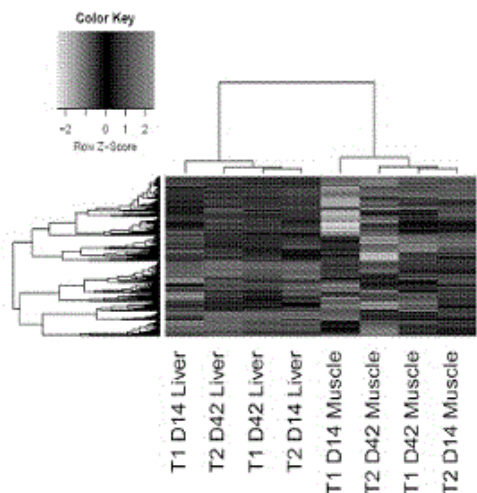
00: -
 An effective treatment method and composition for controlling a variety of diseases including disease in poultry are disclosed. The inventive concept set forth herein provides an improved long-lasting treatment having a positive latency effect for a broad variety of diseases that is easy to administer and cost effective. The disclosed method of treatment utilizes a compound derived from a lipopolysaccharide (LPS) of gram-negative bacteria. By administering the compound early in broiler life, disease prevention and treatment via immune modulation result. The treatment has a lasting effect throughout the entire broiler production period. The composition itself is a natural product and thus has no adverse environmental impact unlike known antibiotic regimens. By providing effective treatment during the stage of life where feed consumption is lowest by volume, costs to the producer are advantageously limited.

21: 2022/13483. 22: 2022/12/13. 43: 2025/01/17
 51: A23K; A61K; A61P; C07K; C12N
 71: ZIVO BIOSCIENCE, INC.
 72: STEFFEK, AMY E, DAHL, ANDREW A, PFUND, WILLIAM P
 33: US 31: 17/358,878 32: 2021-06-25
 33: US 31: 63/044,841 32: 2020-06-26

54: IMMUNE PRIMING TO ACCELERATE/ENHANCE IMMUNE RESPONSE THROUGH ADMINISTRATION OF NATURAL IMMUNE MODULATOR

00: -
 A method and compound for altering the status of both innate and adaptive immune pathways in both animals and humans are disclosed. The status alteration results in the immune response being primed whereby an accelerated and more robust response is generated when the animal or human is challenged by pathogens that lead to a wide range of disease states. The disclosed method utilizes a compound derived from a lipopolysaccharide (LPS) of gram-negative bacteria. The compound itself is a natural product with no observed adverse environmental impact. By priming the immune pathways according to the disclosed inventive concept, the severity of various disease states can

be reduced, can be resolved more quickly, or can be avoided entirely.



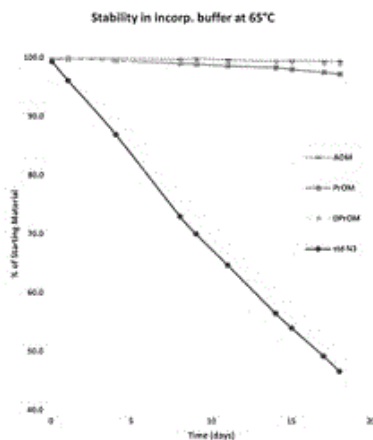
21: 2022/13527. 22: 2022/12/14. 43: 2025/01/17
51: C07H; C12Q

71: ILLUMINA CAMBRIDGE LIMITED
72: FRANCAIS, ANTOINE, CRESSINA, ELENA, CULLEY, ADAM, MARIANI, ANGELICA, WU, XIAOLIN, LIU, XIAOHAI

33: US 31: 62/784,970 32: 2018-12-26
33: US 31: 62/784,994 32: 2018-12-26

54: METHODS OF PREPARING GROWING POLYNUCLEOTIDES USING NUCLEOTIDES WITH 3' AOM BLOCKING GROUP

00: -
Embodiments of the present disclosure relate to methods of preparing growing polynucleotides using nucleotide molecules with a 3' AOM blocking group. Also provided herein are kits related to such methods.



21: 2022/13544. 22: 2022/12/14. 43: 2025/01/13
51: A23P A47G A61J

71: UNISTRAW CORP.

72: PALAZZI, Kendall, Norman

33: US 31: 16/887,525 32: 2020-05-29

54: DRINKING STRAW WITH INTERNAL COATING

00: -
A drinking straw comprising an elongate tubular body of an insoluble material having an internal coating comprising a matrix containing an active agent dispersed within the matrix, the body sized to allow a carrier liquid to be drawn therethrough such that passage of the carrier liquid causes the matrix to release the active agent into the carrier liquid to be consumed by a drinker. The matrix comprises partially hydrolysed guar gum, an acid and a modified cellulose. The active agent includes sweetener, flavour, a nutrient and/or a pharmaceutical and optionally colour. The coating is prepared by mixing the matrix with water to form a paste or syrup and is then used to coat the inside surface of a drinking straw to a thickness of less than 1mm. Liquid drawn through the straw dissolves or breaks down the coating, releasing the active agent into the liquid for consumption.

21: 2022/13684. 22: 2022/12/19. 43: 2025/01/21
51: A41D; A61B

71: Yong Nam PARK

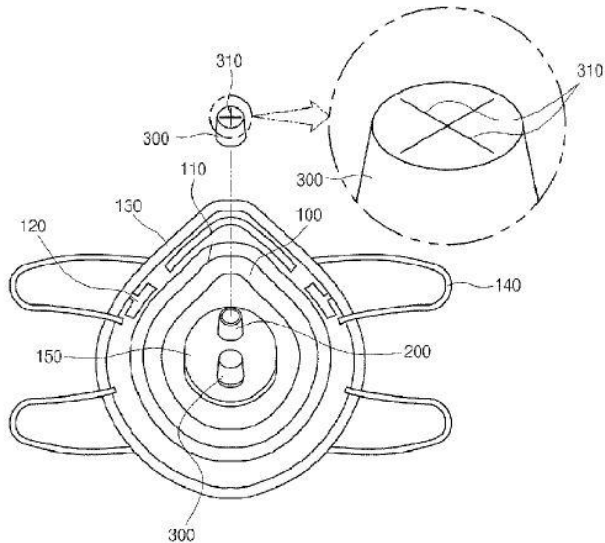
72: PARK, Yong Nam

33: KR 31: 10-2020-0059759 32: 2020-05-19

54: SUBJECT SPECIMEN TOOL FOR VIRUS TESTING

00: -
The present invention relates to a subject specimen tool for virus testing and, more specifically, to a subject specimen tool for virus testing, which enables an examiner to collect a specimen of a subject by using a specimen collection swab, while being worn by the subject, and is kept airtight during specimen collection so that a contaminant in a mask does not leak outside of the mask, and thus, contamination around testing and infection of the examiner can be prevented. To this end, provided is a subject specimen tool for virus testing, comprising: a mask for shielding the face or a portion thereof of a subject; a specimen collection swab which is inserted into the mouth or nose of the subject

wearing the mask, to collect a specimen; a swab insertion/withdrawal hole part formed in the mask and having a path with a diameter sufficient for the specimen collection swab to be inserted therinto and withdrawn therefrom; and a detachable cap configured to be detachable from the swab insertion/withdrawal hole part and having an opening means which is open to guide the specimen collection swab to the path of the swab insertion/withdrawal hole part, wherein the opening means is open only in one direction toward the swab insertion/withdrawal hole part.

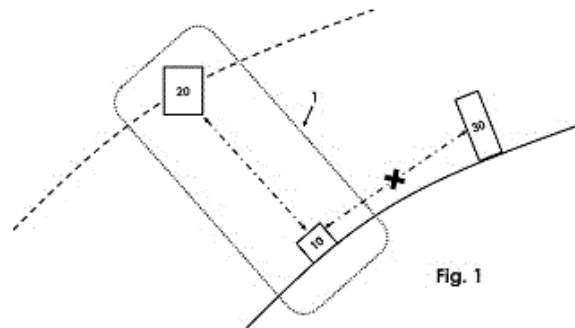


21: 2022/13714. 22: 2022/12/19. 43: 2025/01/17
 51: H04B
 71: EUTELSAT S A
 72: HIRSCH, ANTONIN, BRICHLER, GEOFFROY

54: METHODS FOR THE TRANSMISSION OF DATA BETWEEN A RESOURCE-CONSTRAINED DEVICE AND A NON-GEOSTATIONARY SATELLITE AND ASSOCIATED METHOD

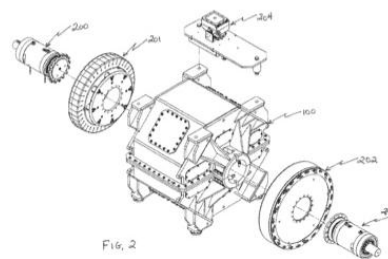
00: -
 The invention relates to a method for the transmission to at least one non-geostationary satellite of at least one piece of data stored by a ground-based device, the method being carried out by the non-geostationary satellite and comprising the following steps: - Performing periodically at least one radio coverage measurement, - Computing a dynamic elevation emission criterion based on the last radio coverage measurement performed, - Emitting at least one signal periodically towards the

Earth, the signal comprising at least the dynamic elevation emission criterion, - If the position of the non-geostationary satellite relative to the position of the ground-based device verifies the dynamic elevation emission criterion: - Receiving at least one signal sent by the ground-based device, the signal comprising at least one piece of data stored by at least one ground-based device.



21: 2022/13761. 22: 2022/12/20. 43: 2025/02/12
 51: H02K
 71: FLUX DRIVE LLC
 72: CORBIN III, Philip, BRAUN, Richard, SPARKS, Michael Troy
 33: US 31: 16/909,989 32: 2020-06-23
54: IMPROVED MAGNETIC DRIVE
 00: -

An improved liquid cooled apparatus for transferring large torques magnetically with a primary rotary member and a secondary rotary member as is set forth is US 7294947. The primary rotary member has permanent magnets, the secondary rotary member with electro-conductive materials. Both of said rotors being encased in a liquid tight casing enclosure and said rotors both being liquid cooled to allow for power transfers in excess of 260 KW and 1000 ft. lb torque.



21: 2023/00208. 22: 2023/01/04. 43: 2025/01/29

51: C23C C23G C23F

71: CHEMETALL GMBH

72: MOHR, Anna, Verena, SIX, Marcell,
KHELFALLAH, Nawel, Souad

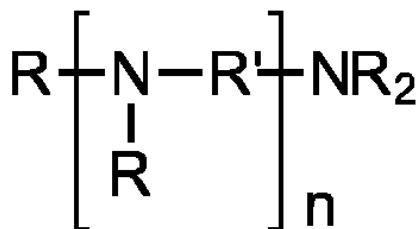
33: EP 31: 20179332.0 32: 2020-06-10

54: AQUEOUS PICKLING COMPOSITIONS AND THEIR USE

00: -

The invention relates to an aqueous composition having a pH value at 55 °C in the range from 5 to 9, containing at least two different amino organophosphonic acid derivatives of formula (I) wherein residues R independently of each other are CH₂-PO(ORⁿ)₂, residues R' independently of each other are alkylene residues with 2 to 4 carbon atoms, residues R'' independently of each other are H, Na, K, Li or NH₄; and n is an integer from 0 to 4; and wherein the at least two different amino organophosphonic acid derivatives differ in the value of n. The invention further relates to a concentrate to produce such compositions, a pickling method for pickling metallic substrates making use of the compositions, a coating method for coating metallic substrates comprising the pickling method and a use of the compositions for pickling metallic substrates.

(I)



21: 2023/00368. 22: 2023/01/09. 43: 2025/01/23

51: A61K; C07K; A61P

71: PRECIGEN, INC.

72: SABZEVARI, Helen, METENOU, Simon, CHEN,
ChangHung, Shah, Rutul R.

33: US 31: 63/050,393 32: 2020-07-10

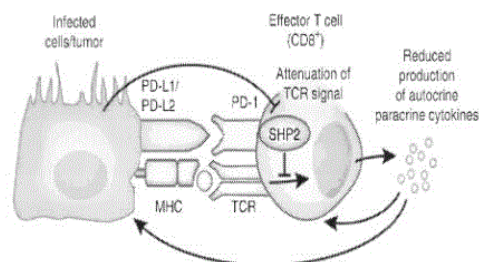
33: US 31: 63/173,902 32: 2021-04-12

54: FUSION CONSTRUCTS AND METHODS OF USING THEREOF

00: -

A fusion protein comprising: a first component comprising an antibody, or a fragment or variant thereof; and a second component comprising a cytokine trap or an adenosine deaminase or a

fragment or variant thereof. In certain embodiments, the antibody is an anti-PD-1 antibody. In certain embodiments, the antibody binds to a tumor antigen, for example a MUC16 or MUC1 antigen. In certain embodiments, the cytokine trap is a TGF-β trap. A polynucleotide encoding such a fusion protein and a vector comprising such a polynucleotide. A composition comprising the fusion protein. A method of using the composition, including in the treatment of cancer.



21: 2023/01437. 22: 2023/02/03. 43: 2025/01/22

51: C07D; A61P

71: GILEAD SCIENCES, INC.

72: BUNYAN, ELAINE, CHUN, BYOUNG-KWON,
DEMPAH, KASSIBLA E., HUI, HON C., KALLA,
RAO V., MACKMAN, RICHARD L.

33: US 31: 63/071,134 32: 2020-08-27

33: US 31: 63/162,283 32: 2021-03-17

33: US 31: 63/215,310 32: 2021-06-25

54: COMPOUNDS AND METHODS FOR TREATMENT OF VIRAL INFECTIONS

00: -

Compounds and methods of using said compounds, singly or in combination with additional agents, and salts, crystalline forms, pharmaceutical compositions of said compounds for the treatment of viral infections are disclosed.

21: 2023/00368. 22: 2023/01/09. 43: 2025/01/23

51: A61K; C07K; A61P

71: PRECIGEN, INC.

72: SABZEVARI, Helen, METENOU, Simon, CHEN,
ChangHung, Shah, Rutul R.

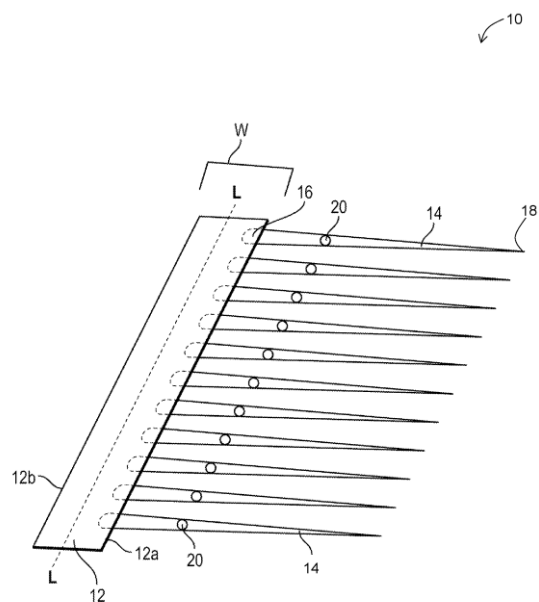
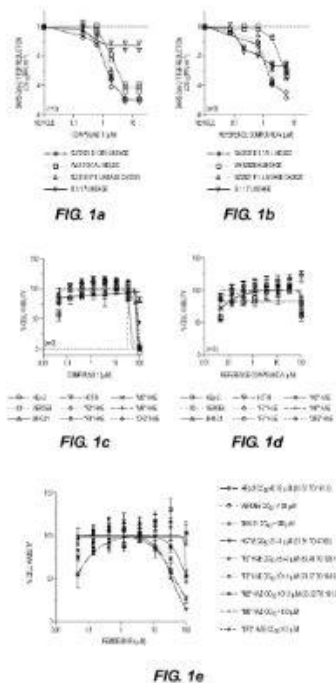
33: US 31: 63/050,393 32: 2020-07-10

33: US 31: 63/173,902 32: 2021-04-12

54: FUSION CONSTRUCTS AND METHODS OF USING THEREOF

00: -

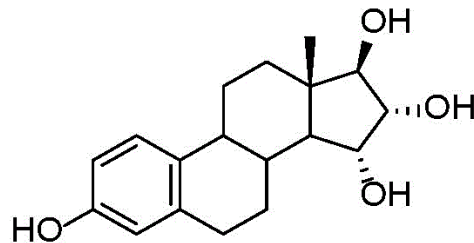
A fusion protein comprising: a first component comprising an antibody, or a fragment or variant thereof; and a second component comprising a cytokine trap or an adenosine deaminase or a



21: 2023/03565. 22: 2023/03/14. 43: 2025/03/06
 51: A41G; A45D; C09J
 71: KISS NAIL PRODUCTS, INC.
 72: AHN, Kichul, KIM, Jieun, BANG, Jane
 33: US 31: 63/068,728 32: 2020-08-21
54: READY-TO-USE EYELASH EXTENSIONS
 00: -
 An artificial eyelash extension system is described. The system uses a plurality of eyelash filaments. A support strip is attached to the bases of the eyelash filaments. An adhesive element is applied before the artificial eyelash extension system is packaged for sale to a user. A method for applying artificial eyelash extensions is also described.

21: 2023/03924. 22: 2023/03/29. 43: 2025/03/04
 51: C07J
 71: INDUSTRIALE CHIMICA S.R.L.
 72: LENNA, Roberto, FASANA, Andrea, LUCENTINI, Riccardo
 33: IT 31: 102019000017414 32: 2019-09-27
 33: IT 31: 102019000021879 32: 2019-11-22
54: PROCESS FOR PREPARING (15ALPHA,16ALPHA,17BETA)-ESTRA-1,3,5(10)-TRIENE-3,15,16,17-TETROL (ESTETROL) AND INTERMEDIATES OF SAID PROCESS
 00: -

The present invention relates to a process for preparing (15a,16a,17β)-Estra-1,3,5(10)-triene-3,15,16,17-tetrol, also known as Estetrol, having the formula shown below: (I)



(I)

21: 2023/04049. 22: 2023/03/31. 43: 2025/02/12
 51: B01J
 71: UNISA

72: SHEN, Jianqi, LIU, Xinying, HILDEBRANDT, Diane

33: GB 31: 2013769.1 32: 2020-09-02

54: TUBULAR REACTORS

00: -

The invention relates to tubular reactors. In particular the invention provides for a reactor internal component for a fixed bed reactor which is axially receivable within a portion of an internal reaction cavity of a reactor tube. The reactor internal component includes a tubular insert, having a tubular wall with an outer surface shaped and dimensioned to fit into the internal reaction cavity of the reactor tube, the tubular insert having an inner passage of varied diameter which is operable to change a profile of the internal reaction cavity, in use to improve temperature distribution in a catalyst bed provided within the internal reaction cavity of the reactor tube.

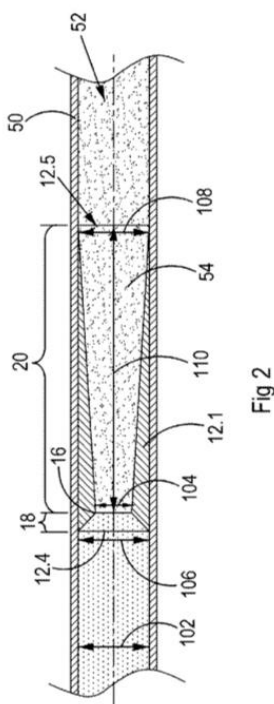


Fig 2

The present disclosure is directed to the scalable synthesis of novel perimorphic materials, including stratified perimorphic frameworks, on recyclable templates, and using recyclable process liquids. Using these methods, three-dimensional architectures constructed from two-dimensional molecular structures can be produced economically and with reduced waste.

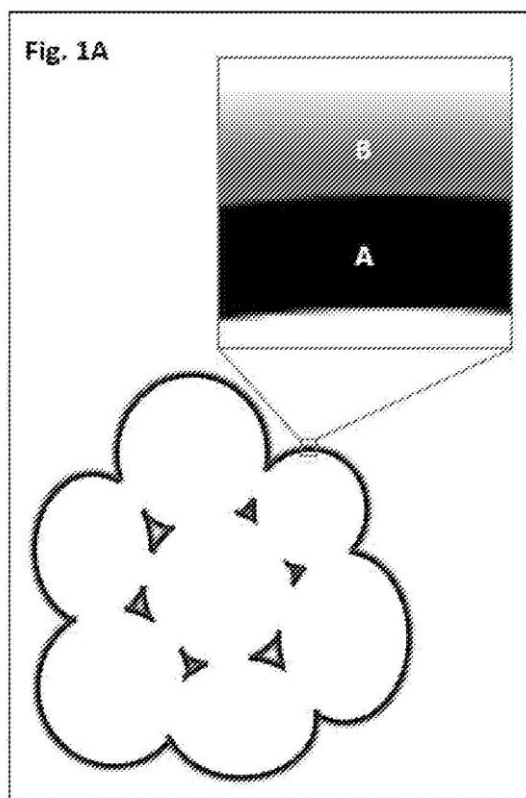


Fig. 1A

21: 2023/04347. 22: 2023/04/12. 43: 2024/07/04

51: C01F

71: Dickinson Corporation

72: BISHOP, Matthew, THOMAS, Abhay

33: US 31: 63/086,760 32: 2020-10-02

54: SCALABLE SYNTHESIS OF PERIMORPHIC MATERIALS

00: -

21: 2023/04541. 22: 2023/04/19. 43: 2025/01/21

51: C07D; A61K; A61P

71: PRELUDE THERAPEUTICS, INCORPORATED

72: BUESKING, ANDREW W, COMBS, ANDREW PAUL, ZHUO, JINCONG, HOLMES, RYAN, PAWLEY, SARAH, WU, XIAOWEI

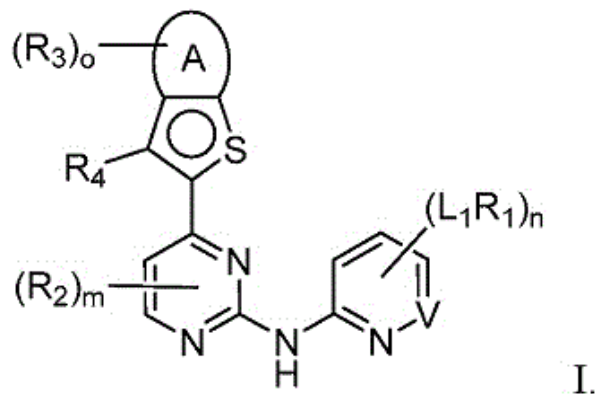
33: US 31: 63/081,126 32: 2020-09-21

33: US 31: 63/221,959 32: 2021-07-15

54: CDK INHIBITORS AND THEIR USE AS PHARMACEUTICALS

00: -

The disclosure is directed to compounds of Formula (I) Pharmaceutical compositions comprising compounds of Formula (I), as well as methods of their use and preparation, are also described.



21: 2023/04631. 22: 2023/04/21. 43: 2025/01/21

51: A47J

71: DART INDUSTRIES INC.

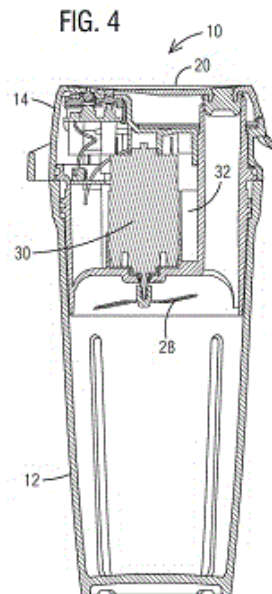
72: YE, JUNYU, DE VOS, WIM, VANDAELE, INE M K, SCHELFOUT, SANDER, BACKAERT, DIMITRI M C J, DE ZUTTER, BAVO

33: US 31: 17/744,544 32: 2022-05-13

54: PORTABLE DRINK BLENDER

00: -

A portable drink blender includes a blade rotation axis offset from center such that the blender blades do not extend across in interior of the drinking spout. The motor housing is formed of a lower housing having the complete spout formed therein, and an upper housing including an aperture through which the spout extends. A cover interlock is provided which prevents operation of the motor unless the cover is in the closed position to seal the spout closed.



21: 2023/05053. 22: 2023/05/08. 43: 2025/01/30

51: B65D; B65B

71: HARVEST BAGS (PTY) LTD.

72: SUN, XIAODONG, HU, ZHENMING, VAN WYK, GIDEON JAKOBUS

33: ZA 31: 2022/01636 32: 2022-02-08

54: CLIP

00: -

A clip which is typically, but not exclusively, used to clamp onto a drawstring of a harvest bag, to lock the harvest bag in a closed configuration. The clip comprises first and second clamping portions which are configurable in one of an open and a closed configuration. In use, an object, like the drawstring, is received between the first and second clamping portions. A locking arrangement locks the first and second clamping portions in the closed configuration while a gripping arrangement exerts a gripping force on the object when the first and second clamping portions are configured in the closed configuration. The gripping arrangement comprises a slot formed on the first clamping portion and a projection formed on the second clamping portion. In use the projection is configured to be received at least partially in the slot.

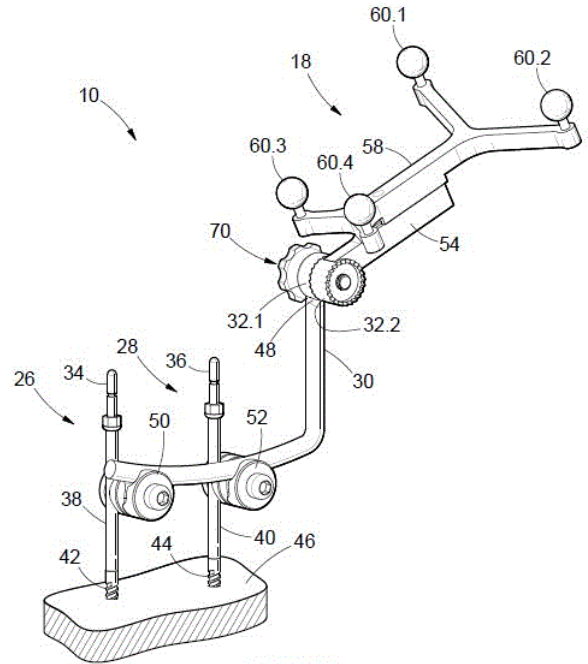
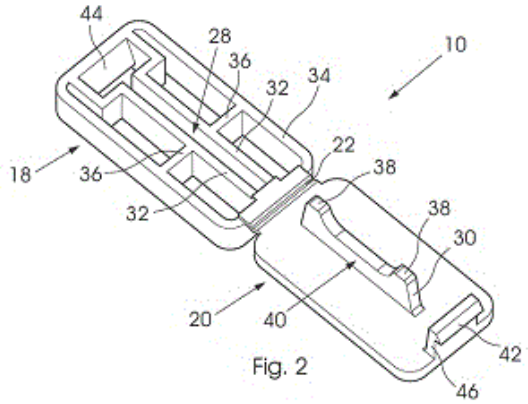


FIGURE 4

21: 2023/05313. 22: 2023/05/16. 43: 2025/02/26
51: A61B; A61M

71: BECKER, Gert Stephanus

72: BECKER, Gert Stephanus

33: ZA 31: 2022/05683 32: 2022-05-24

54: SURGICAL MOUNT

00: -

A surgical mount 10 comprises a first bone anchor 26 configured to anchor in bony tissue 46 and a second bone anchor 28 configured to anchor in bony tissue 46. A link 30 is securable between the first bone anchor and the second bone anchor. An attachment arrangement 32 serves to attach a reference array 18 to the link 30.

21: 2023/05314. 22: 2023/05/16. 43: 2025/02/26
51: A61B

71: BECKER, Gert Stephanus

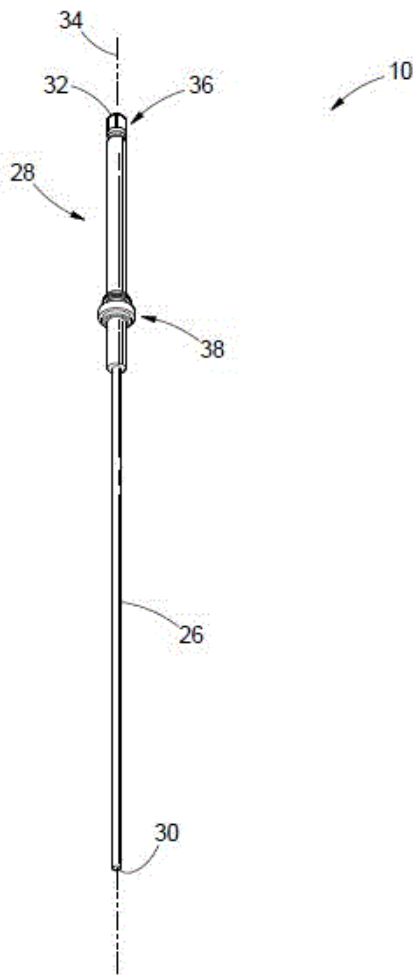
72: BECKER, Gert Stephanus

33: ZA 31: 2022/05682 32: 2022-05-24

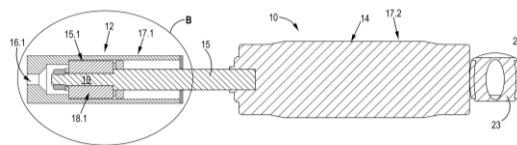
54: SURGICAL GUIDE PIN

00: -

A surgical guide pin 10 comprises an elongate body 26 having a tissue engaging end 30 and an opposed end 32. The surgical guide pin 10 further comprises an interface formation 28 configured to removably receive a carrier 40 of a reference array 14 of a surgical navigation system 12. The interface formation 28 is located in a region towards the opposed end 32.



shocks in two consecutive stages. During the first stage, a first suspension provides driving comfort and absorbs ordinary vibrations experienced whilst driving. In the second stage, the second, harder suspension is activated and provides shock absorption for significant impacts such as detonation of a land mine below the vehicle.



21: 2023/05542. 22: 2023/05/23. 43: 2025/01/22
51: A61K; A61P; C07F

71: AstraZeneca AB

72: MLYNARSKI, Scott Nathan, GREBE, Tyler, KAWATKAR, Sameer, FINLAY, Maurice Raymond Verschoyle, SIMPSON, Iain, WANG, Jianyan, COOK, Steve, WU, Dedong

33: US 31: 62/631,659 32: 2018-02-17

54: ARGINASE INHIBITORS AND METHODS OF USE THEREOF

00: -

Disclosed are compounds of formula (Ia) or a pharmaceutically acceptable salt thereof, pharmaceutical compositions comprising compounds of formula (Ia) and methods of using the same for treating cancer or a respiratory inflammatory disease and inhibiting arginase, wherein R¹ is -NHR^{1a}; R^{1a} is -H or -C(O)CH(R^{1b})NHR^{1c}; and R^{1b} is selected from -H, -(C₁-C₄) alkyl and CH₂OR^{1d} and R^{1c} is -H; or R^{1b} and R^{1c}, together with the atom to which they are attached, form a 5-membered heterocyclic ring; and R^{1d} is H or -CH₃.

21: 2023/05365. 22: 2023/05/17. 43: 2025/01/28

51: B60G; F16F

71: THE TRUSTEES FOR THE TIME BEING OF THE JOHAN BRITZ FAMILY TRUST

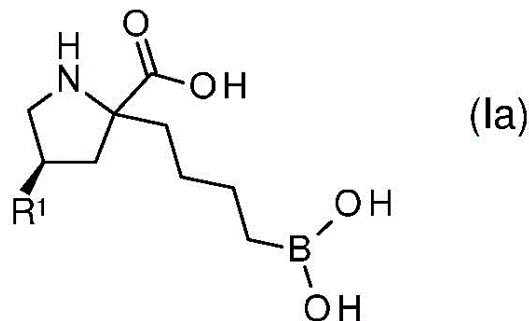
72: Britz, Johannes Hermanus

33: ZA 31: 2022/05509 32: 2022-05-19

54: A DUAL SUSPENSION SHOCK ABSORBER

00: -

The invention relates to a dual suspension shock absorber 10, for use in a vehicle seat, which includes a first absorber body 12, a larger second absorber body 14 and a piston rod 15 which interconnects the first and second absorber bodies 12, 14. The piston rod is reciprocally displaceable in the first absorber body in response to minor vibrations and performs a first shock absorbing action. The second absorber body takes the form of a hydraulic cylinder which is configured to absorb shock in conventional fashion. The shock absorber 10 is capable of absorbing both minor and major



21: 2023/05607. 22: 2023/05/24. 43: 2025/01/22

51: B22F; B33Y; C22C; B22D; E02F; B02C

71: MAGOTTEAUX INTERNATIONAL S.A.

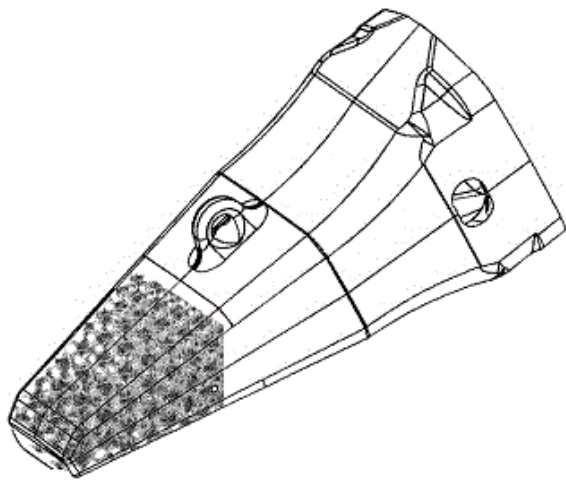
72: DESILES, STÉPHANE, BERTON, GUY, BABINEAU, MARC, SINGH JAGGI, AMOLDEEP

33: EP 31: 20213121.5 32: 2020-12-10

54: HIERARCHICAL COMPOSITE WEAR PART WITH STRUCTURAL REINFORCEMENT

00: -

The present invention is related to hierarchical composite wear component comprising a reinforced part, said reinforced part comprising a reinforcement of a triply periodic minimal surface ceramic lattice structure, said structure comprising multiple cell units, said cell units comprising voids and micro-porous ceramic cell walls, the micro-pores of the cell walls comprising a sinter metal or a cast metal, the ceramic lattice structure being embedded in a bi-continuous structure with a cast metal matrix.

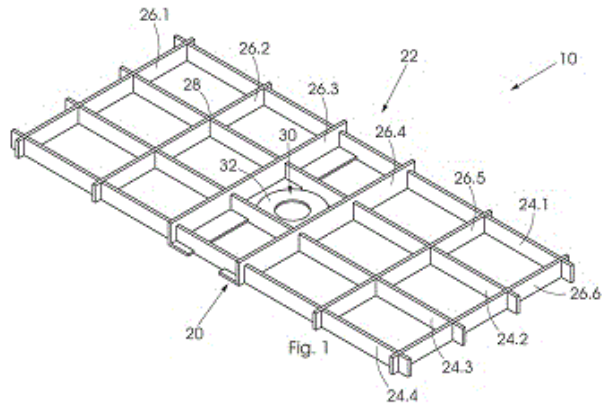


21: 2023/05733. 22: 2023/05/29. 43: 2025/01/31
 51: E21D
 71: DAVIES, CRAIG DAVID, DAVIES, GORDON DANIEL
 72: DAVIES, CRAIG DAVID, DAVIES, GORDON DANIEL
 33: ZA 31: 2022/02448 32: 2022-02-28

54: HEADER BOARD

00: -

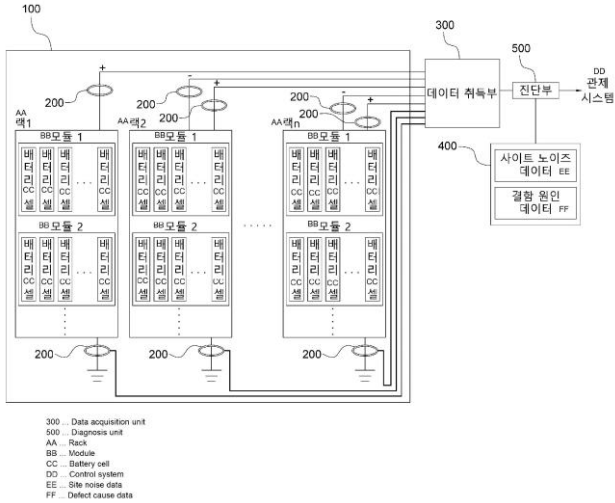
A header board (10) or load-distributing support structure for replacing current wooden header boards used in the mining industry. The header board (10) is operatively provided between a rock face (12) and a support structure (16) and comprises a first side (20) configured for operatively contacting the rock face (12) and a second side (22) operatively facing towards the support structure (16). The header board (10) comprises a plurality of length members (24) and a plurality of cross members (26) arranged in the form of a substantially planar grid, lattice, frame or network.



21: 2023/05804. 22: 2023/05/30. 43: 2025/01/22
 51: A62C; G08B; H01M
 71: Hyosung Heavy Industries Corporation
 72: JO, Hyang Eun, SEO, Hwang Dong, JUNG, Jae Ryong
 33: KR 31: 10-2021-0094145 32: 2021-07-19
54: BATTERY FIRE PREVENTION AND DIAGNOSIS SYSTEM

00: -

A battery fire prevention and diagnosis system according to the present invention comprises: a high frequency current transformer (HFCT) sensor provided at at least one from among a ground line, a positive (+) pole line, and a negative (-) pole line of a battery; a data acquisition unit for receiving a high frequency signal of a current measured by means of the HFCT sensor; a noise/defect cause database (DB) including site noise data for sites, which are being operated, and defect cause data for defect causes; and a diagnosis unit for determining a defect cause and whether the battery is abnormal on the basis of data of the high frequency signal acquired by the data acquisition unit and the site noise data and the defect cause data in the noise/defect cause DB.

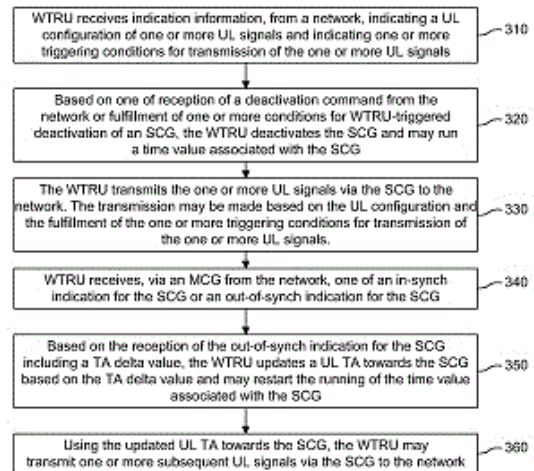


21: 2023/06367. 22: 2023/06/19. 43: 2024/08/27
 51: F41J
 71: LEONTEV, Sergei Nikolaevich
 72: LEONTEV, Sergei Nikolaevich
 33: RU 31: 2021103961 32: 2021-02-17
54: SHOOTING RANGE

00: -
 The invention relates to high performance sport and can be used for carrying out training events and competitions. The technical result consists in the creation of a simple shooting range for developing and consolidating proper skills for combined running and shooting races using a laser pistol and laser targets. The present shooting range comprises a mobile modular disassemblable structure consisting of a firing line, a target line, and a system for video recording shots fired, wherein the firing line is configured from a set of individual modules joined to form a single linear structure and being a disassemblable modular structure consisting of a frame with a roof and protective side walls for each module, the side pieces of the frame being connected to one another by two cross-pieces arranged in two tiers.

21: 2023/07041. 22: 2023/07/12. 43: 2025/01/20
 51: H04W
 71: INTERDIGITAL PATENT HOLDINGS, INC.
 72: TEYEB, OUMER, FREDA, MARTINO, DEENOO, YUGESWAR, COMSA, VIRGIL
 33: US 31: 63/136,531 32: 2021-01-12
54: METHODS AND SYSTEMS FOR EFFICIENT UPLINK (UL) SYNCHRONIZATION MAINTENANCE WITH A DEACTIVATED SECONDARY CELL GROUP (SCG)

00: -
 A wireless transmit/receive unit (WTRU) may receive indication information indicating an uplink (UL) configuration and one or more triggering conditions for transmission of UL signals. Based on reception of a deactivation command or fulfillment of a condition for WTRU-triggered deactivation of a secondary cell group (SCG), the WTRU may deactivate the SCG. Based on the UL configuration and the fulfillment of the one or more triggering conditions, the WTRU may transmit the UL signals via the SCG. The WTRU may receive, via a master cell group (MCG), an in-synch or out-of-synch indication for the SCG. Based on the reception of the out-of-synch indication including a timing advance (TA) delta value, the WTRU may update a UL TA towards the SCG based on the TA delta value. Using the updated UL TA towards the SCG, the WTRU may transmit one or more subsequent UL signals via the SCG.



21: 2023/07071. 22: 2023/07/13. 43: 2025/01/15
 51: H04W
 71: Huawei Technologies Co., Ltd.
 72: HU, Li, WU, Rong
 33: CN 31: 202110027552.1 32: 2021-01-10
54: SECURITY POLICY PROCESSING METHOD AND COMMUNICATION DEVICE

00: -
 Disclosed is a security policy processing method, which is used for realizing a best-effort user plane security on-demand starting mechanism in a network having a core network element which does not support user plane security on-demand protection. The security policy processing method in the

embodiments of the present application comprises: a target access network device receiving a message #50-2 from a core network device #30-1, wherein the message #50-2 includes container information from a source access network device; and the target access network device determining, according to the message #50-2, a user plane security activation state between same and a terminal device, wherein the user plane security activation state represents whether user plane encryption protection is enabled and/or whether user plane integrity protection is enabled.

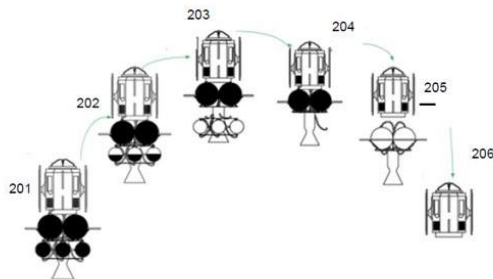


201 Access a network by means of the source access network device, so as to trigger switching
 202 Message #50-1 (Container (user plane security policy #40-1))
 203 Acquire a user plane security policy #40-2 of the terminal device
 204 Message #50-2 (Container (user plane security policy #1), (user plane security policy #40-2))
 205 Activate user plane security protection
 AA: Terminal device
 BB: Source access network device #10-1
 CC: Target access network device #20-1
 DD: Core network device #30-1

21: 2023/07107. 22: 2023/07/14. 43: 2025/02/27
 51: B64G
 71: AGNIKUL COSMOS PRIVATE LIMITED
 72: SHAH KHADRI, Syed Peer Mohamed, RAVICHANDRAN, Srinath
 33: IN 31: 202041054598 32: 2020-12-15
54: A COMBINED LAUNCH VEHICLE AND SATELLITE SYSTEM

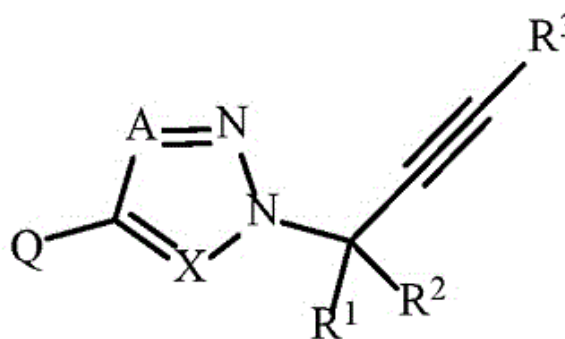
00: -
 The present invention relates to a combined launch vehicle and satellite system. More specifically relates to the satellite combined with the launch vehicle's upper stage to provide a more efficient system that includes tank separation technology which allows the satellite system to shed tanks that have used up all the propellants stored therein. The method separation of the tank set is enabled by using a merman band or pneumatic type of separation system; wherein the three bottom tanks (105) are emptied first (202) during the process, followed by the separation of the emptied tanks (203) herein the fuel is completely filled in the second set of tanks (203). The first pair of tanks (103) is then separated after the fuel is emptied (204). Similarly, the

plumbing lines (106) are also separated alongwith. The separation of the used components is achieved herein (205) and the satellite is ready for orbit insertion (206).



21: 2023/07402. 22: 2023/07/25. 43: 2025/01/24
 51: C07D; A01N
 71: FMC CORPORATION
 72: ZHANG, WENMING, SANA, KASINATH, ROSSI, MICHAEL ALAN, BOLGUNAS, STEPHEN P, TISCIONE, MYLES JOSEPH
 33: US 31: 63/142,365 32: 2021-01-27
54: AZOLE COMPOUNDS FOR CONTROLLING INVERTEBRATE PESTS

00: -
 Disclosed are compounds of Formula 1, including all geometric and stereoisomers, *N*-oxides, and salts thereof, Wherein R¹, R², R³, A, X and Q are as defined in the disclosure. Also disclosed are compositions containing the compounds of Formula 1 and methods for controlling an invertebrate pest comprising contacting the invertebrate pest or its environment with a biologically effective amount of a compound or a composition of the disclosure.



1

21: 2023/07488. 22: 2023/07/27. 43: 2025/01/24
51: C07D

71: FMC CORPORATION, FMC AGRO
SINGAPORE PTE. LTD.

72: CAO, YANCHUN, XU, ZHIJIAN, LIU, XIN

33: US 31: 63/143,156 32: 2021-01-29

54: METHODS FOR THE PREPARATION OF 5-BROMO-2-(3-CHLORO-PYRIDIN-2-YL)-2H-PYRAZOLE-3-CARBOXYLIC ACID

00: -

Described herein are novel methods of synthesizing 5-Bromo-2-(3-chloro-pyridin-2-yl)- 2H-pyrazole-3 -carboxylic acid from pyrazole or pyrazole derivatives.

21: 2023/07489. 22: 2023/07/27. 43: 2025/01/24
51: C07D

71: FMC CORPORATION, FMC AGRO
SINGAPORE PTE. LTD.

72: CAO, YANCHUN, LIU, XIN, XU, NING, WANG,
HAO, XU, ZHIJIAN

33: US 31: 63/143,282 32: 2021-01-29

54: METHOD FOR PREPARING TERT-BUTYL N-((1R,2S,5S)-2-((2-((5-CHLOROPYRIDIN-2-YL)AMINO)-2-OXOACETYL)AMINO)-5-(DIMETHYLCARBAMOYL)CYCLOHEXYL)CARBAMATE

00: -

Described herein are novel methods of synthesizing 5-Bromo-2-(3-chloro-pyridin-2-yl)- 2H-pyrazole-3 -carboxylic acid from pyrazole or pyrazole derivatives.

21: 2023/07611. 22: 2023/08/01. 43: 2025/01/10
51: H04W

71: NOKIA TECHNOLOGIES OY

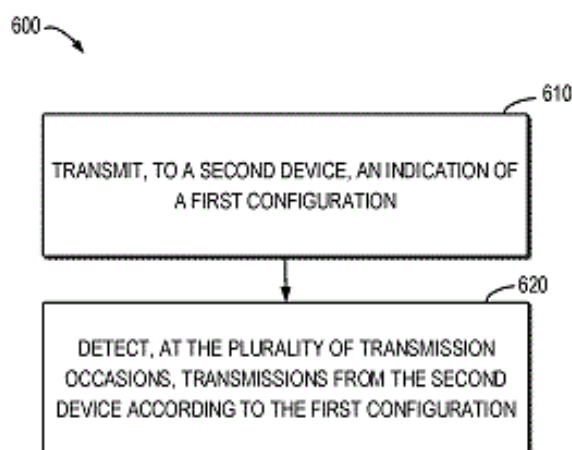
72: WU, Chunli, TURPINEN, Samuli, Heikki,
KOSKINEN, Jussi-Pekka

54: BEAM MANAGEMENT FOR A DEVICE IN AN INACTIVE MODE

00: -

Example embodiments of the present disclosure relate to transmit power control for beam management. The first device transmits a first configuration to a second device. The first configuration indicates information about at least one candidate beam assigned to the second device. Alternatively, or in addition, the first configuration further indicates a correspondence between the at least one candidate beam and a plurality of transmission occasions, where the plurality of transmission occasions are allocated by the first device for transmission from the second device to

the first device while the second device is in an inactive mode. The first device detects transmissions from the second device according to the first configuration at the plurality of transmission occasions. Through this solution, a beam management solution and efficient resource configuration for a device in an inactive mode is proposed.



21: 2023/08212. 22: 2023/08/25. 43: 2025/02/27
51: A24F; H03K; H05B

71: PHILIP MORRIS PRODUCTS S.A.

72: COURBAT, Jerome, Christian, MIRONOV, Oleg,
STURA, Enrico, MONNEY, Patrick Philippe

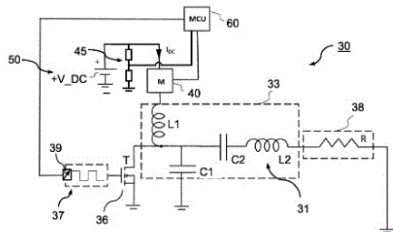
33: EP 31: 21153930.9 32: 2021-01-28

54: INDUCTIVE HEATING ARRANGEMENT FOR HEATING AEROSOL-FORMING SUBSTRATES

00: -

The present invention relates to an inductive heating arrangement for heating of an aerosol-forming substrate. The heating arrangement comprises a DC power source and a power supply electronics comprising a DC/AC inverter connected to the DC power source. The DC/AC inverter comprises a resonant switching power amplifier with at least one transistor switch, at least one transistor switch driver circuit associated with the transistor switch and an LC load network. The LC load network comprises at least one capacitor and at least one inductor, wherein the inductor is configured to generate an alternating magnetic field during operation of the heating arrangement for inductively heating the aerosol-forming substrate. The transistor switch driver circuit comprises a tunable oscillator configured to output a switching signal to the

transistor switch having a tunable switching frequency. The heating arrangement further comprises a current sensor for determining the DC supply current drawn from the DC power source during operation of the heating arrangement, and a controller configured to receive a current signal from the current sensor indicative of the DC supply current and to tune the switching frequency of the switching signal in response to the received current signal in order to tune the DC supply current drawn from the DC power source to be in a predetermined range. The invention further relates to an aerosol-generating device and an aerosol-generating system comprising such an inductive heating arrangement. Furthermore, the invention relates to a method and an apparatus for calibrating such a heating arrangement.



21: 2023/08329. 22: 2023/08/29. 43: 2025/01/30
 51: D21H
 71: BILLERUD AKTIEBOLAG (PUBL)
 72: VALTANEN, EERO ANTERO
 33: EP 31: 21217014.6 32: 2021-12-22
 33: EP 31: 21154736.9 32: 2021-02-02

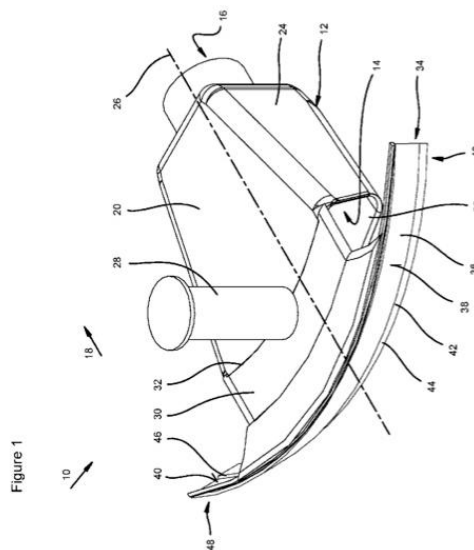
54: PAPERMAKING METHOD

00: -
 There is provided a method of producing a paper on a paper machine, comprising the steps of: a) providing a pulp, such as a mixture of hardwood pulp and softwood pulp; b) adding cationic glyoxylated polyacrylamide (G-PAM) to the pulp; c) forming a web from the pulp in a forming section comprising a head box; d) pressing the web in a press section; e) drying the web in a drying section; and f) optionally calendering the web in a calender.

21: 2023/08374. 22: 2023/08/30. 43: 2025/02/12
 51: A47L; B08B; B63B; E04H
 71: FRANMARINE UNDERWATER SERVICES PTY LTD
 72: DYHRBERG, Roger Wayne Richard
 33: AU 31: 2021900746 32: 2021-03-15

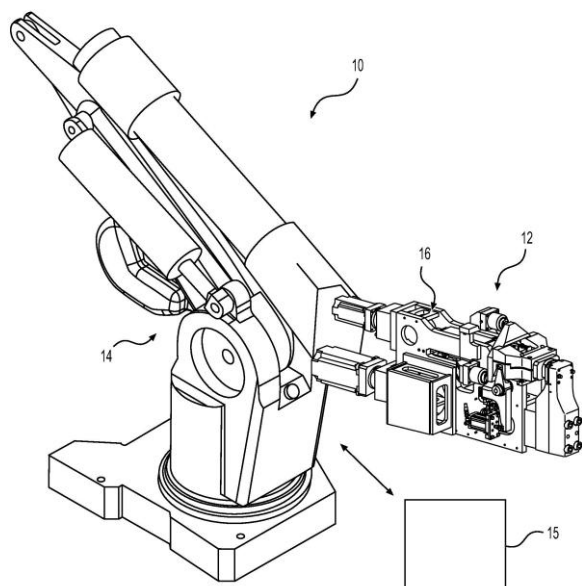
54: A CLEANING HEAD FOR A MARINE CLEANING SYSTEM

00: -
 A cleaning head for a marine cleaning system used for cleaning a submerged surface includes a body configured to be disposed adjacent to and moved relative to the submerged surface during use. The body defines at least one suction aperture being in fluid communication with a suction region surrounding the body. A support arm extends from the body, which support arm in turn supports a cleaning element that is configured to cause material on the submerged surface to separate from the submerged surface and become suspended in the suction region during use. The material separated from the submerged surface is drawn away from the suction region through the suction aperture. The support arm extends from a junction with the body so that the cleaning element is supported in a spaced relation laterally away from the junction with the junction being disposed operatively forward of the cleaning element during use.



21: 2023/08681. 22: 2023/09/11. 43: 2025/01/10
 51: B21D; B23Q
 71: KUKA Systems North America LLC
 72: MARX, Timothy James, FRENCH, Thomas William
 33: US 31: 17/325,554 32: 2021-05-20
54: APPARATUS AND METHODS FOR FORMING ATTACHMENT PADS
 00: -

A tool for forming an attachment pad on a sheet material includes an anvil supported on a housing and defining a working axis for forming the pad. A slide block is supported on the housing for movement at least along the working axis, and a die block is supported opposite the slide block and is movable in directions along the working axis to cooperate with anvil to form the pad. At least one actuator on the housing biases the slide block in a direction toward the die block. The actuator is operable in a first mode wherein the slide block is movable toward and away from the die block, and a second mode wherein the slide block is locked against movement in a direction away from the die block. A selectively adjustable counterbalance device cooperates with the actuator to counterbalance a force applied to the slide block by the actuator.



21: 2023/08795. 22: 2023/09/15. 43: 2025/01/13

51: A61K; A61P; C07D

71: Merck Sharp & Dohme LLC

72: MITTAL, Sachin, SKUDLAREK, Jason W., RAHEEM, Izzat T.

33: US 31: 63/162,333 32: 2021-03-17

54: PRO DRUGS OF PDE10 COMPOUNDS

00: -

The present invention is directed to pro drugs of 2-methyl-N-((5-methyl-1,3,4-thiadiazol-2-yl)methyl)-6-(((1S,2S)-2-(5-methylpyridin-2-yl)cyclopropyl)methoxy)pyrimidin-4-amine which are useful as therapeutic agents for the treatment of

central nervous system disorders associated with phosphodiesterase 10 (PDE10). The present invention also relates to the use of such compounds for treating neurological and psychiatric disorders, such as schizophrenia, psychosis or Huntington's disease, and those associated with striatal hypofunction or basal ganglia dysfunction.

21: 2023/08840. 22: 2023/09/18. 43: 2025/03/10

51: H01M

71: CERES INTELLECTUAL PROPERTY COMPANY LIMITED

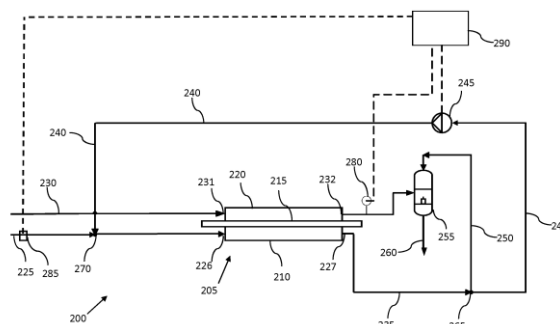
72: MCNICOL, Alexander, POSTLETHWAITE, Oliver, HARMAN, Jonathan David, MICUCCI, Stefano, BARARI, Farzad, PILLAI, Anupama, MCLORN, Michael James

33: GB 31: 2102985.5 32: 2021-03-03

54: FUEL CELL SYSTEM

00: -

A fuel cell system (200, 300) and a method for operating the fuel cell system (200, 300). The fuel cell system (200, 300) comprising an anode inlet (226) and an anode outlet (227); means for heating the stack (205); an anode off gas recirculation loop (240) configured to provide a gas flow path to recirculate anode off gas from the anode outlet (227) to the anode inlet (226); and a controller (290). The method comprising, at start-up of the fuel cell system (200, 300): heating the stack (205) to a first threshold temperature; providing an unreformed hydrocarbon fuel to the anode inlet (226) at a first fuel flow rate from a fuel supply (225) when but not before the stack (205) is above the first threshold temperature; recirculating anode off gas from the anode outlet (227) to the anode inlet (226) while providing unreformed fuel to the anode inlet (226); and drawing a current from the fuel cell system (200, 300) while recirculating the anode off gas.



21: 2023/08845. 22: 2023/09/19. 43: 2025/02/11
51: C07K
71: ABLYNX N.V.

72: WATERMAN, Alisa, K., DEPLA, Erik., VAN HOORICK, Diane, VERVERKEN, Cedric, Jozef, Néotère, LAEREMANS, Toon, SINGH, Sanjaya
33: US 31: 61/603,622 32: 2012-02-27

54: CX3CR1-BINDING POLYPEPTIDES

00: -

The present invention relates to CX3CR1-binding polypeptides, in particular polypeptides comprising specific immunoglobulin domains. The invention also relates to nucleic acids encoding such polypeptides; to methods for preparing such polypeptides; to host cells expressing or capable of expressing such polypeptides; to compositions comprising such polypeptides; and to uses of such polypeptides or such compositions, in particular for prophylactic, therapeutic and diagnostic purposes.

21: 2023/08846. 22: 2023/09/19. 43: 2025/02/11
51: C07K
71: ABLYNX N.V.

72: WATERMAN, Alisa, K., DEPLA, Erik., VAN HOORICK, Diane, VERVERKEN, Cedric, Jozef, Néotère, LAEREMANS, Toon, SINGH, Sanjaya
33: US 31: 61/603,622 32: 2012-02-27

54: CX3CR1-BINDING POLYPEPTIDES

00: -

The present invention relates to CX3CR1-binding polypeptides, in particular polypeptides comprising specific immunoglobulin domains. The invention also relates to nucleic acids encoding such polypeptides; to methods for preparing such polypeptides; to host cells expressing or capable of expressing such polypeptides; to compositions comprising such polypeptides; and to uses of such polypeptides or such compositions, in particular for prophylactic, therapeutic and diagnostic purposes.

21: 2023/08891. 22: 2023/09/20. 43: 2025/02/11
51: E04B; F16B
71: HSU, MING-HAO

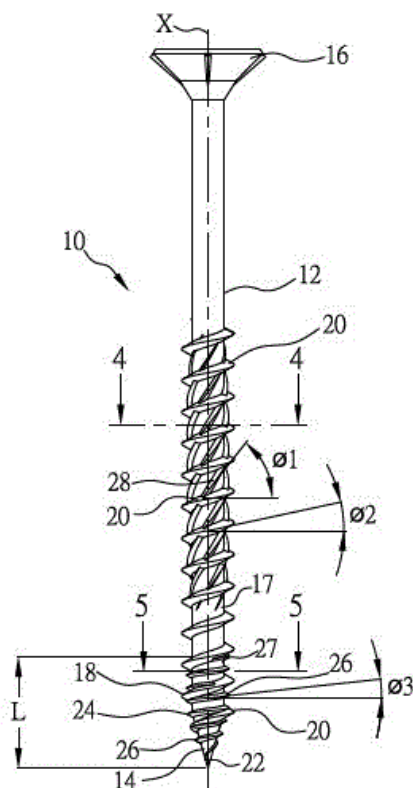
72: HSU, MING-HAO

54: SCREW

00: -

A screw includes a shank, a locking thread, and an interference thread. The shank includes a screwing-in portion, a head, and a straight rod portion between the screwing-in portion and the head. The locking thread is arranged on the outer peripheral

surface of the shank and extends to the straight rod portion from the screwing-in portion. The locking thread includes a plurality of locking thread convolutions. The straight rod portion is provided with a plurality of ribs. The interference thread spirally arranged at the screwing-in portion extends to a lower section of the straight rod portion and includes a plurality of interfering thread convolutions. Each interfering thread convolution is formed between two adjacent locking thread convolutions. The lead angles and the ridge heights of the beveled rib, the locking thread convolution and the interference thread convolution are related to one another in a specific relationship range.



21: 2023/09001. 22: 2023/09/22. 43: 2025/01/13
51: A61K; A61P; C07D

71: Ono Pharmaceutical Co., Ltd.

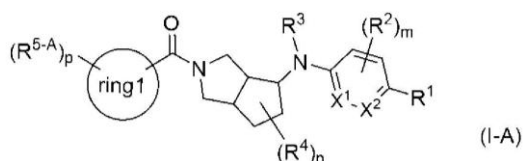
72: YOSHIDA, Atsushi, HYAKUTAKE, Ryuichi, NAGASHIMA, Nozomu, MISU, Ryosuke, MORI, Shohei
33: JP 31: 2021-062790 32: 2021-04-01

54: ABHD6 ANTAGONIST

00: -

The purpose of the present invention is to provide a medicine for the prevention and/or treatment of a

disease associated with ABHD6, which contains a compound having an ABHD6-inhibiting activity as an active ingredient. A compound represented by general formula (I-A) (wherein all symbols are as defined in the description) or a pharmaceutically acceptable salt thereof has an ABHD6-inhibiting activity, and is therefore useful as a medicinal component having a potent ABHD6-inhibiting activity in the prevention and/or treatment of a diseases associated with ABHD6.



21: 2023/09162. 22: 2023/09/28. 43: 2025/02/12
51: C12Q

71: Oxford BioDynamics PLC

72: RAMADASS, Aroul Selvam, HUNTER, Ewan, AKOULITCHEV, Alexandre

33: US 31: 63/156,659 32: 2021-03-04

33: US 31: 63/282,284 32: 2021-11-23

54: CHROMOSOME INTERACTION MARKERS

00: -

A process for analysing chromosome interactions relating to immunotherapy of cancer.

21: 2023/09170. 22: 2023/09/29. 43: 2025/02/11

51: A24D; A24F; H05B

71: PHILIP MORRIS PRODUCTS S.A.

72: GONZALEZ FLOREZ, Ana Isabel, MANCINI, Roberto, TURRINI, Enrico

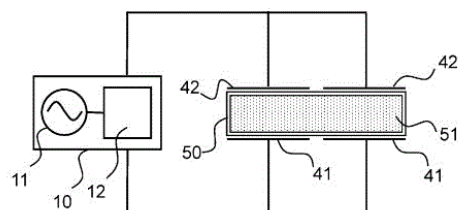
33: EP 31: 21160318.8 32: 2021-03-02

54: DIELECTRICALLY HEATED AEROSOL-GENERATING SYSTEM WITH SEGMENTED HEATER

00: -

A dielectrically heated aerosol-generating system comprising an aerosol-forming substrate (51), a plurality of pairs of electrodes, and an aerosol-generating device. Each pair of electrodes comprises a first electrode (41) spaced apart from a second electrode (42). The aerosol-generating device comprises a controller configured to connect to each pair of electrodes. Each pair of electrodes forms a capacitor with a portion of the aerosol-forming substrate (51). The controller is configured to supply an alternating voltage to the plurality of

pairs of electrodes for dielectrically heating the aerosol-forming substrate (51).



21: 2023/09171. 22: 2023/09/29. 43: 2025/02/11

51: A24D; A24F; H05B

71: PHILIP MORRIS PRODUCTS S.A.

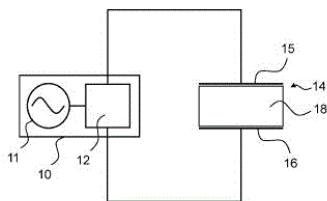
72: GONZALEZ FLOREZ, Ana Isabel, MANCINI, Roberto, TURRINI, Enrico

33: EP 31: 21160319.6 32: 2021-03-02

54: DIELECTRICALLY HEATED AEROSOL-GENERATING SYSTEM WITH OPTIMISED DIMENSIONS

00: -

There is provided a dielectrically heated aerosol-generating system. The aerosol-generating system comprising an aerosol-forming substrate (20), a first electrode (15) and a second electrode (16), and an aerosol-generating device. The aerosol-generating device comprises a controller configured to connect to the first electrode (15) and the second electrode (16). The first electrode (15) and the second electrode (16) form a capacitor with a portion of the aerosol-forming substrate (20). The controller is configured to supply an alternating voltage to the first electrode (15) and the second electrode (16) for dielectrically heating the aerosol-forming substrate (20). In some embodiments, the first electrode (15) and the second electrode (16) are configured to be spaced apart by a separation distance of between about 2 millimetres and about 9 millimetres. In some embodiments, the first electrode (15) and the second electrode (16) have a length, the length of the second electrode (16) being substantially the same as the length of the first electrode (15), and a ratio between the length of the first electrode (15) and the separation distance is between about 10.5 and about 19.5.



21: 2023/09173. 22: 2023/09/29. 43: 2025/02/26

51: C10B; C10G

71: IFP ENERGIES NOUVELLES

72: QUIGNARD, Alain, WEISS, Wilfried, NGUYEN-HONG, Duc

33: FR 31: 2104873 32: 2021-05-07

54: INTEGRATED METHOD FOR PROCESSING PYROLYSIS OILS OF PLASTICS AND/OR SOLID RECOVERED FUELS LOADED WITH IMPURITIES

00: -

The invention relates to a method for processing a pyrolysis oil of plastics and/or solid recovered fuels, comprising: a) optional selective hydrogenation of the feedstock; b) hydroconversion in a boiling bed, entrained bed and/or moving bed, in order to obtain a hydroconverted effluent; c) hydroprocessing said hydroconverted effluent resulting from step b) to obtain a hydroprocessed effluent, without an intermediate separation step between steps b) and c), c') optionally hydrocracking said effluent from step c), c) separating the effluent from step c) or c') in the presence of an aqueous stream to obtain a gaseous effluent, an aqueous liquid effluent and a hydrocarbonaceous liquid effluent; d) optional fractionation to obtain at least one gaseous stream and a fraction having a boiling point of less than or equal to 175°C and a fraction having a boiling point of greater than 175°C.

21: 2023/09174. 22: 2023/09/29. 43: 2025/02/26

51: C10G

71: IFP ENERGIES NOUVELLES

72: DE SOUSA DUARTE, Marisa, DECOTTIGNIES, Dominique, SOUCHON, Vincent, WEISS, Wilfried, BONNARDOT, Jérôme

33: FR 31: 2104874 32: 2021-05-07

54: PROCESS FOR THE SIMULTANEOUS PROCESSING OF PLASTICS PYROLYSIS OILS AND OF A FEEDSTOCK ORIGINATING FROM RENEWABLE RESOURCES

00: -

The invention relates to a process for processing a feedstock comprising a plastics pyrolysis oil and a

feedstock originating from renewable resources, comprising: - a) optionally, a step of selective hydrogenation of the feedstock comprising a plastics pyrolysis oil, - b) hydrodemetallation of the feedstock comprising a plastics pyrolysis oil or the effluent from step a); - c) hydroprocessing of said effluent from step b), wherein said feedstock originating from renewable resources is introduced in step a) and/or in step b) and/or in step c), the weight ratio of the flow rate of the feedstock comprising the plastics pyrolysis oil to the flow rate of the introduced feedstock originating from renewable resources being between 0.05 and 20, and - d) separation in the presence of an aqueous stream.

21: 2023/09221. 22: 2023/10/02. 43: 2025/01/20

51: C02F

71: HAMPTON ROADS SANITATION DISTRICT, O'SHAUGHNESSY, MAUREEN, WETT, BERNHARD, MURTHY, SUDHIR, D.C. WATER AND SEWER AUTHORITY

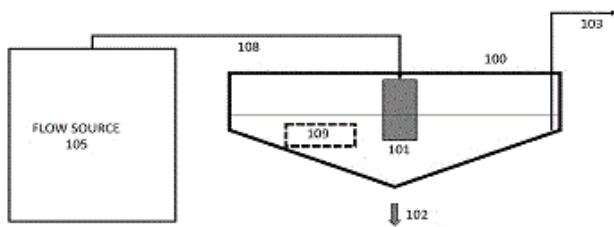
72: O'SHAUGHNESSY, MAUREEN, WETT, BERNHARD, MURTHY, SUDHIR, DEBARBADILLO, CHRISTINE, BOTT, CHARLES, DE CLIPPELEIR, HAYDEE

33: US 31: 63/160,497 32: 2021-03-12

54: METHOD AND APPARATUS FOR MULTI-DESELECTION IN WASTEWATER TREATMENT

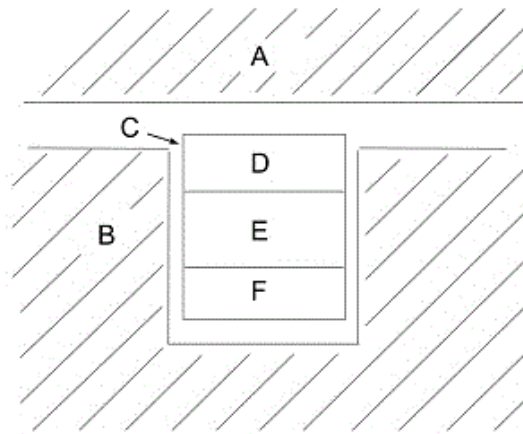
00: -

This disclosure relates to physical selection, deselection or outselection for smaller, less dense, sheared or compressed particles in sludge, wherein the first deselection step occurs at the reactor or at a clarification step, by separately deselecting for such particles and then a second deselection step occurs in an external selector. This double deselection promotes the more efficient removal of slow settling particles, while simultaneously allowing for maintenance of multiple solids residence times for fast and slow growing organisms. The deselection in a clarifier occurs typically at the periphery of the tank or at the surface of a blanket using a positive or negative pressure device. Structures such as slotted or perforated plates, pipes or manifolds can be used to assist in such deselection. Baffles can also be used for such deselection.



21: 2023/09222. 22: 2023/10/02. 43: 2025/01/20
 51: E02F
 71: UNIVERSIDAD DE SANTIAGO DE CHILE
 72: ESPEJO PIÑA, ALVARO PATRICIO, EUGENIO HERRERA, CARLOS JAVIER, ALTBIR DRULLINSKY, DORA ROSA, DAUD ALBASINI, OMAR ANDRÉS, SEPÚLVEDA VÁSQUEZ, SEBASTIÁN ANDRÉS, TARGARONA HERRERA, MATÍAS BERNARDO, FUENTES AMPUERO, GABRIEL ESTEBAN
 33: CL 31: 688-2021 32: 2021-03-19
54: MONITORING DEVICE FOR TRACKING A WEAR ELEMENT; SYSTEM AND METHODS
 00: -

The present invention relates to an electronic monitoring device for autonomously tracking, detecting and reporting the installation/re-installation and detachment/uninstallation of a wear element (GET) and a GET clamping element on an earthmoving machine. The device is installed in a cylindrical cavity in the GET. The electronic monitoring device and GET have an identifier code for maintaining continuous wireless communication despite the highly metallic surrounding environment, even reporting during transit. The electronic monitoring device manages its energy according to its operating status ("Standby", "Installed Device", "Installed GET" or "Detached GET"), and it has separate upper and lower twin sensing means, which detect the installation/re-installation and detachment/uninstallation through magnetic hysteresis curves, changes in amplitude of the standing wave in the transmission line of a resonant antenna, or changes in amplitude or phase of an RLC circuit with thermal normalisation, or changes in the self-frequency of a self-resonant RLC circuit; and an outer protective casing.



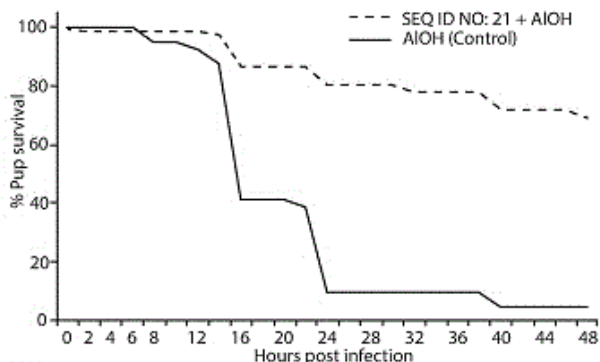
21: 2023/09224. 22: 2023/10/02. 43: 2025/01/20
 51: F03B
 71: LONE GULL HOLDINGS, LTD.
 72: THORSON, IVAR LEE, SHELDON-COULSON, GARTH ALEXANDER, MOFFAT, BRIAN LEE, PLACE, DANIEL WILLIAM
 33: US 31: 63/171,589 32: 2021-04-07
54: RESERVOIR-REGULATING DIGITAL LOAD CONTROL
 00: -

A flow regulation system for regulating a flow of a fluid from a fluid reservoir is disclosed having a fluid reservoir container, an effluent conduit adapted to discharge fluid from the fluid reservoir container, and a fluid turbine disposed in the effluent conduit. A generator connected to the fluid turbine for converting mechanical energy to electrical energy, and a power conditioning module is energized by the generator to alter voltage and current characteristics of electricity generated by the generator. A load manager to monitor operational characteristic of the flow regulation systems. The load manager responds to a change in operational characteristics by sending a signal to alter an electrical load characteristic selected from the group comprising a clock frequency of digital computing circuits in the electrical load, a mean rate of digital switching operations of digital computing circuits in the electrical load, and a current draw of the electrical load.

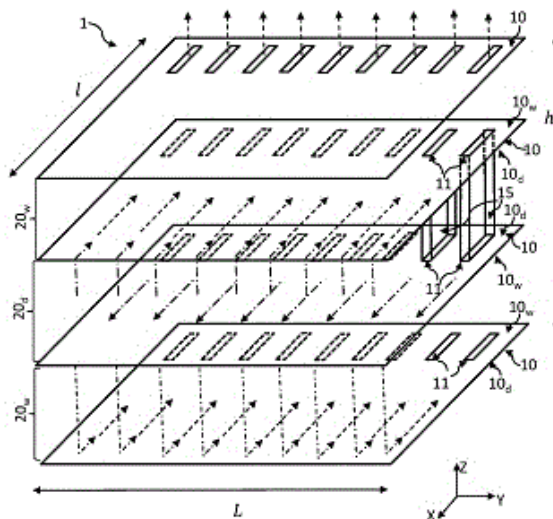
21: 2023/09225. 22: 2023/10/02. 43: 2025/01/20
 51: A61K; C07K; A61P
 71: MINERVAX APS
 72: PEDERSEN FISCHER, PER BO
 33: EP 31: 21165674.9 32: 2021-03-29

54: IMMUNOGENIC FUSION PROTEIN

00: -
 The present invention relates to an immunogenic fusion protein comprising or consisting of an amino acid sequence consisting of: i. a first amino acid sequence part consisting of 170 to 178 amino acids, preferably 174 to 175 amino acids, and having at least 90% sequence identity with the amino acid sequence shown in SEQ ID NO: 7; ii. a second amino acid sequence part consisting of 165 to 174 amino acids, preferably 169 to 170 amino acids, and having at least 90% sequence identity with the amino acid sequence shown in SEQ ID NO: 14; and optionally: iii. a linker amino acid sequence part consisting of 1 to 20 amino acids and separating the first amino acid sequence part from the second amino acid part. The immunogenic fusion protein preferably consists of 335 to 372 amino acids, preferably 343 to 353 amino acids, more preferably 343 to 347 amino acids. The invention further pertains to nucleic acid molecule encoding the immunogenic fusion protein; a vector; a host cell; a vaccine; and a method of vaccination against group B Streptococcus infection or treating a group B Streptococcus infection. It is suggested that Fig. 3 be published with the abstract.



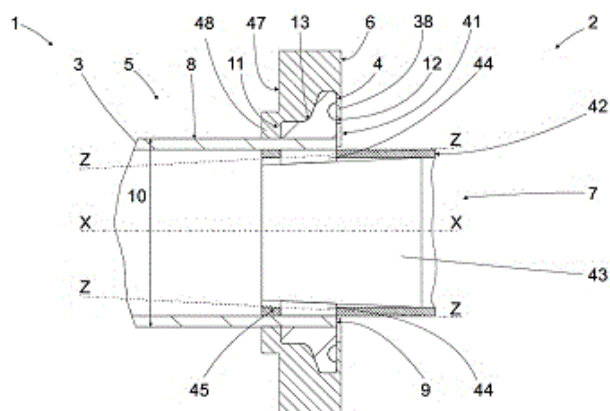
intended to collect air to be cooled; - a plurality of plates forming a stack, each plate comprising a dry surface opposite a moist surface, the moist surface of each plate being configured to be kept moist by water, each plate being intended to be cooled by evaporation of water from the moist surface; - a ventilation system; the device being such that: - two adjacent plates are spaced apart from each other, along a transverse axis, so as to form a channel, the channel being: either a dry channel defined by two dry surfaces of two adjacent plates, or a moist channel defined by two moist surfaces of two adjacent plates; the device being characterised in that each moist channel comprises a plurality of moist outlets divided along a lateral axis perpendicular to a longitudinal axis and to the transverse axis, and/or each dry channel comprises a plurality of air inlets distributed along a lateral axis perpendicular to a longitudinal axis and to the transverse axis.



21: 2023/09226. 22: 2023/10/02. 43: 2025/01/20
 51: F24F; F28D; F28F; F28C
 71: CAELI ENERGIE
 72: LIPS, STÉPHANE
 33: FR 31: FR2102107 32: 2021-03-04
54: AIR CONDITIONING DEVICE WITH INDIRECT COOLING BY EVAPORATION
 00: -
 Air conditioning device with indirect cooling by evaporation, the device being intended to blow cold air into a room, the device comprising: - an air intake

21: 2023/09248. 22: 2023/10/03. 43: 2025/01/20
 51: F16L; B21D
 71: GLATT GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG
 72: NOWAK, MIRKO, NOWAK, REINHARD
 33: DE 31: 10 2021 202 883.7 32: 2021-03-24
54: SYSTEM HAVING A DEVICE FOR PRODUCING A PIPELINE UNIT AND METHOD FOR PRODUCING A PIPELINE UNIT
 00: -
 The invention relates to a system (1) having a device (2) for producing a pipeline unit (5) from a pipeline

(3) having a pipeline outer surface (8) and a pipe connector (4) having a pipe connector outer surface (13) and to a method for producing the system (1).



21: 2023/09249. 22: 2023/10/03. 43: 2025/01/20
51: A01N

71: AGRO INNOVATION INTERNATIONAL

72: NGUEMA-ONA, EMMANUEL ERIC

33: FR 31: FR2102737 32: 2021-03-18

54: USE OF A RED ALGA EXTRACT AS NEMATOSTATIC AND/OR NEMATOCIDAL AGENT

00: -

The invention concerns (i) the use of a red alga extract as an agent nematostatic for nematodes and/or as an agent nematocidal for nematodes and (ii) a method for treating soil to promote growth of a plant by reducing access to the roots of said plant by nematodes or by eliminating the nematodes present in said soil, said method comprising supplying said soil with a red alga extract.

21: 2023/09251. 22: 2023/10/03. 43: 2025/01/20
51: C07C; C07B; B01J

71: MITSUBISHI CHEMICAL CORPORATION

72: SATO, TAKASHI, KOJYOU, ATUSHI

33: JP 31: 2021-192233 32: 2021-11-26

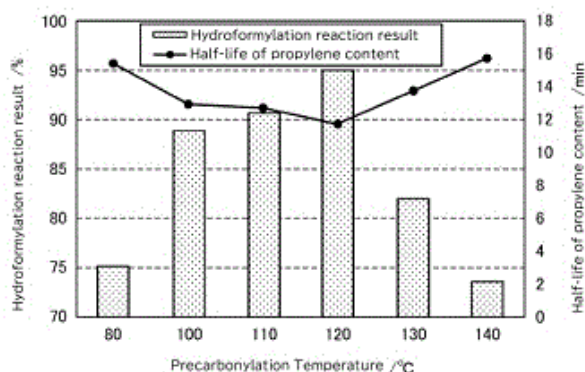
33: JP 31: 2021-056855 32: 2021-03-30

54: METHOD FOR PRODUCING ALDEHYDE AND METHOD FOR PRODUCING CATALYST

00: -

A method for producing an aldehyde by a hydroformylation reaction in which a starting material olefin is reacted with hydrogen and carbon monoxide in the presence of a catalyst, wherein the method for producing an aldehyde has a pre-processing step for bringing a mixture including rhodium acetate, an

organophosphorus ligand compound, and an organic solvent into contact with hydrogen and carbon monoxide to obtain a catalyst mixture, and a reaction step for performing the hydroformylation reaction using the catalyst mixture; and, in the pre-processing step, the temperature of the mixture brought into contact with hydrogen and carbon monoxide is 95-135°C, and the mole ratio of phosphorus in the organophosphorus compound with respect to rhodium derived from rhodium acetate is in the range of 200 to 400.



21: 2023/09278. 22: 2023/10/04. 43: 2025/01/16
51: A61L

71: VISCOFAN, S.A.

72: GUEMBE LAPUENTE, Amaia, ZÚÑIGA ARRARÁS, Teresa, RECALDE IRURZUN, José Ignacio, IZCO ZARATIEGUI, Jesús Maria

33: ES 31: 21382331.3 32: 2021-04-19

54: COLLAGEN HYDROGELS USEFUL AS CELL CARRIERS

00: -

It discloses a collagen hydrogel which comprises a 3D fibrillar structure with micropores obtainable by a process comprising: providing an acidic mass of native Type I collagen fibers dispersed in water in a concentration comprised between 1-15% in weight; b) neutralizing the acidic mass to adjust the pH to physiological pH; and c) applying beta radiation in a range of up to (50) KGy; wherein the acidic mass has a pH comprised between 0.5-5; and fibers, wherein the acidic mass comprises fibers, wherein at least 90% of the total mass of the fibers have a length comprised in a range from (1) μm to 2500 μm and a fiber diameter comprised in a range from 0.1 to 150 μm measured at a pH between (1) and (2). It also discloses a process for its preparation as well as its use as support for cell tissue or as scaffold of

cultured meat, as well as the hydrogel for use in biomedical applications.

21: 2023/09287. 22: 2023/10/04. 43: 2025/01/29
51: A61K

71: VaxThera SAS

72: OSORIO, Jorge E.

33: US 31: 63/172,495 32: 2021-04-08

54: CORONAVIRUS VACCINE COMPRISING A MOSAIC PROTEIN

00: -

Disclosed herein are mosaic coronavirus (MoCoV) spike (S) proteins or antigenic fragments thereof. Also disclosed herein are nucleic acid constructs comprising one or more nucleic acid sequences encoding a MoCoV S protein or antigenic fragment thereof. Also disclosed herein are coronavirus vaccine vectors comprising one or more polynucleotides encoding a MoCoV S protein or antigenic fragment thereof. Also disclosed herein are coronavirus vaccines comprising one or more MoCoV S proteins or antigenic fragments thereof and one or more carriers. Also disclosed herein are pharmaceutical compositions, host cells, and kits comprising one or more of the MoCoV S proteins or antigenic fragments thereof, nucleic acid constructs, coronavirus vaccine vectors, and/or coronavirus vaccines. Also disclosed herein are methods of eliciting an immune response in a subject against one or more coronavirus antigens and methods of preventing, reducing the incidence of, attenuating, or treating coronavirus infection in a subject in need thereof.

21: 2023/09292. 22: 2023/10/04. 43: 2025/01/20
51: A01N; A01P

71: CORTEVA AGRISCIENCE LLC

72: PAVAN, LUIS ANTONIO, PERIM, LUCAS, ROSSI, CAIO VITAGLIANO SANTI

33: US 31: 63/175,646 32: 2021-04-16

54: METHOD OF INCREASING SUGAR PRODUCTION FROM SUGARCANE

00: -

Florpyrauxifen, halauxifen, haloxyfop-P, and agriculturally acceptable salts or esters thereof, and mixtures thereof, enhance total sugar recovery from sugarcane when applied to a sugarcane crop from about 30 to about 90 days prior to harvest.

21: 2023/09293. 22: 2023/10/04. 43: 2025/01/20

51: A61K; A61P

71: ASTROGEN, INC.

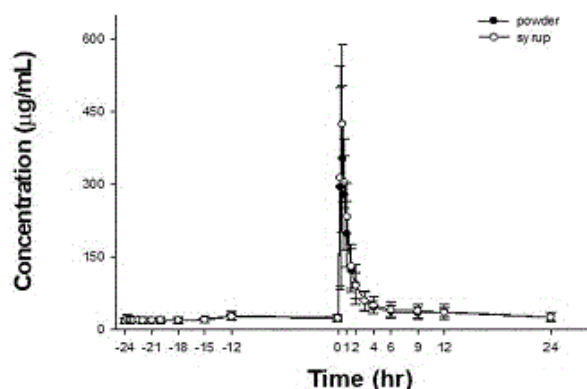
72: NAM, HEE-SOOK, KWAK, SOYOUNG, CHEON, SUN-HA, HWANG, SU-KYEONG, RYU, HYUNG CHUL

33: KR 31: 10-2021-0035796 32: 2021-03-19

54: LIQUID PREPARATION OF L-SERINE OR PHARMACEUTICALLY ACCEPTABLE SALT THEREOF AND METHOD FOR PREPARING SAME

00: -

The present invention relates to a liquid preparation and a method for preparing same, the liquid preparation comprising high-concentration L-serine or a pharmaceutically acceptable salt thereof, having excellent stability and safety and exhibiting excellent pharmacological effects.



21: 2023/09294. 22: 2023/10/04. 43: 2025/01/20
51: A01P; A01N

71: CORTEVA AGRISCIENCE LLC

72: CARRANZA GARZON, NELSON M, MORELL, MAURICIO, PERIM, LUCAS, ROSSI, CAIO VITAGLIANO SANTI

33: US 31: 63/175,652 32: 2021-04-16

54: METHOD OF INHIBITING FLOWERING OF SUGARCANE

00: -

A new method, comprising treating sugarcane with florpyrauxifen-benzyl during the sugarcane flowering induction period, increases sugar production and extraction efficiency.

21: 2023/09295. 22: 2023/10/04. 43: 2025/01/20
51: C07K; A61K; A61P

71: ICOSAGEN CELL FACTORY OÜ

72: PLAAS, MARIO, KOGERMANN, KARIN, ŽUSINAITE, EVA, TIIRATS, TOOMAS, AASMÄE,

BIRGIT, KAVAK, ANTS, POIKALAINEN, VÄINÖ, LEPASALU, LEMBIT, PIISKOP, SANDER, ROM, SIIMU, OLTJER, RUTH, KANGRO, KADRI, SANKOVSKI, EVE, GERHOLD, JOACHIM, PLANKEN, ANU, PERT, RAINI, MÄNNIK, ANDRES, TOVER, ANDRES, MIHHAIL KURAŠIN, MIHHAIL, USTAV, MART, USTAV, MART JR, GILDEMAN, KIIRA

33: US 31: 63/160,833 32: 2021-03-14

54: BOVINE COLOSTRUM DERIVED ANTIBODIES AND USES THEREOF

00: -

A method to produce immunoglobulin preparations against viral infection in humans spreading via respiratory route is provided. The method comprises the steps of immunizing dairy cows during a third trimester of at least a first gestation period with antigen proteins derived from at least one virus strain, collecting hyperimmune bovine colostrum comprising immunoglobulins effective against the antigen protein of various strains of the virus, preparing whey from the colostrum, isolating the immunoglobulin molecules from the whey, and preparing an immunoglobulin preparation for use as an intranasal treatment. One aspect of the invention is to produce SARS-CoV-2 spike protein specific hyperimmune bovine colostrum comprising a high concentration of anti-SARS-CoV-2 antibodies. An intranasal delivery system for diminishing risk of SARS-CoV-2 infections in humans is provided.

21: 2023/09322. 22: 2023/10/05. 43: 2025/01/20

51: C12N; A01N

71: AGROVENTURES S.R.L.

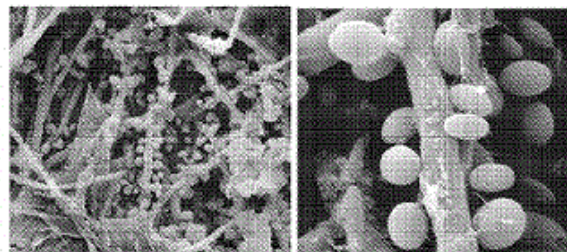
72: CASTORIA, RAFFAELLO, DE CICCO, VINCENZO, DE CURTIS, FILIPPO, FOLCHI, BRUNO, IANIRI, GIUSEPPE, LIMA, GIUSEPPE, PALMIERI, DAVIDE

33: IT 31: 102021000009128 32: 2021-04-12

54: NEW YEAST STRAIN AND ITS USES FOR THE CONTROL OF PHYTOPATHOGENS

00: -

The present invention relates to a new yeast strain for the control of the main phytopathogens, which is effective in the prevention, suppression, treatment or control of a wide range of phytopathogens and related diseases affecting the whole plant (both the aerial part and the radical part).



21: 2023/09323. 22: 2023/10/05. 43: 2025/01/20

51: C25B

71: INDUSTRIE DE NORA S.P.A.

72: MATIENZO, DJ DONN, DI BARI, CHIARA, PINO, FRANCESCO, INSTULI, EMANUELE

33: EP 31: 21162974.6 32: 2021-03-16

54: ELECTRODE FOR GAS EVOLUTION IN ELECTROLYTIC PROCESSES

00: -

The present invention concerns an electrode for gas evolution in electrolytic processes comprising a metal substrate and a coating formed on said substrate, said coating comprising at least a catalytic porous outer layer containing regions of porous nickel oxide dispersed within a solid nickel oxide binder, and a method for the production of such an electrode from preformed nickel vanadium oxide particles.

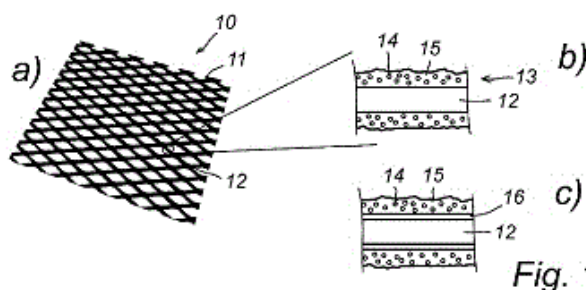


Fig. 1

21: 2023/09328. 22: 2023/10/05. 43: 2025/01/20

51: A01N; C05G

71: FERTIS INDIA PVT. LTD.

72: KANUMURU, RAHUL RAJU, SHAJI, GEORGE KOCHUMALAYIL, GARUDADRI, LAKSHMI PRASANNA KUMAR, SURANENI, RAVIKUMAR, ANINDYA, SIL

33: IN 31: 202141015142 32: 2021-03-31

54: A SYNERGISTIC PLANT GROWTH STIMULANT COMPOSITION COMPRISING POTASSIUM MONO/DIFORMATE AND METAL ION COMPOUNDS TO ENHANCED METABOLIC ACTIVITIES IN PLANTS

00: -

The invention disclosed herein is a synergistic plant growth stimulant composition comprising potassium mono/di-formate and metal ion compounds to improve the catalytic activity of metalloenzymes which result in enhanced metabolic activities in plant system thereby providing high yields and quality produce. The invention also disclosed herein is a process for preparation of said synergistic composition.

21: 2023/09341. 22: 2023/10/06. 43: 2025/01/20

51: H04M; H01Q; H05K

71: SAMSUNG ELECTRONICS CO., LTD.

72: SEO, SEUNGHAN, LEE, JONGPILL, JANG, CHANGWON

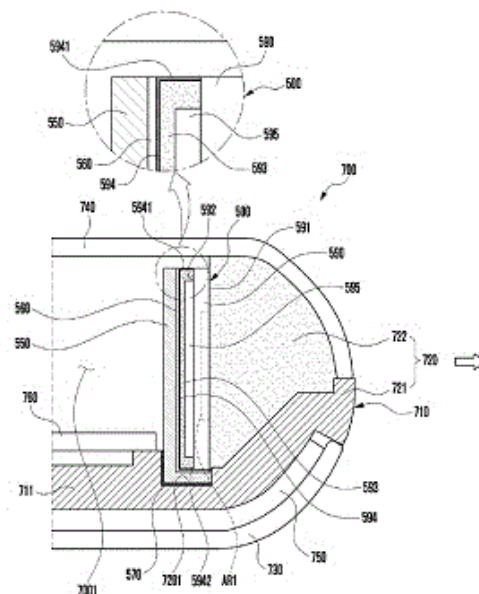
33: KR 31: 10-2019-0043503 32: 2019-04-15

54: ELECTRONIC DEVICE INCLUDING ANTENNA AND HEAT DISSIPATION STRUCTURE

00: -

An electronic device comprising a housing, an antenna module and a conductive member. The housing includes a conductive portion extended from at least a portion of a lateral surface of the electronic device to an inner space of the electronic device.

The antenna module is accommodated in the housing and includes a printed circuit board (PCB) including a first side and a second side opposite to the first side, one or more antenna elements disposed at the first side of the PCB, and a wireless communication circuit disposed at the second side of the PCB and configured to transmit and/or receive a radio signal through at least one antenna element of the one or more antenna elements. The conductive member is accommodated in the housing and includes a supporting portion and a connecting portion extended from the supporting portion and connected to the conductive portion of the housing. The supporting portion is configured to support the antenna module such that the first side of the PCB faces in a direction toward the lateral surface of the electronic device. The connecting portion includes a hole through which a fastening member is disposed to fasten the conductive member to the conductive portion of the housing. Heat generated by the antenna module is transferred to the conductive portion of the housing via the conductive member.



21: 2023/09368. 22: 2023/10/06. 43: 2025/01/20

51: A61K

71: THERAVECTYS, SHANGHAI JINWEI BIOTECHNOLOGY CO., LTD., INSTITUT PASTEUR

72: CHARNEAU, PIERRE ALAIN, BOURGINE, MARYLINE, QIU, CHAO, TIAN, YE, VESIN, BENJAMIN

33: CN 31: 202110374234.2 32: 2021-04-07

54: LENTIVIRAL VECTOR, LENTIVIRAL PARTICLE FOR TREATING HEPATITIS B AND ITS PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a lentiviral vector and lentiviral vector particles for treating hepatitis B infection. The lentiviral vector and particles of the invention contain a nucleotide sequence coding an hepatitis B virus antigen. The large S antigen of hepatitis B virus was in particular selected as candidate and can be applied in pharmaceutical compositions or vaccines for treating and/or preventing hepatitis B virus infection or treating and/or preventing diseases caused by hepatitis B virus infection, which has excellent therapeutic and preventive effects in subjects in need thereof.

21: 2023/09373. 22: 2023/10/06. 43: 2025/01/20

51: C11D; A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

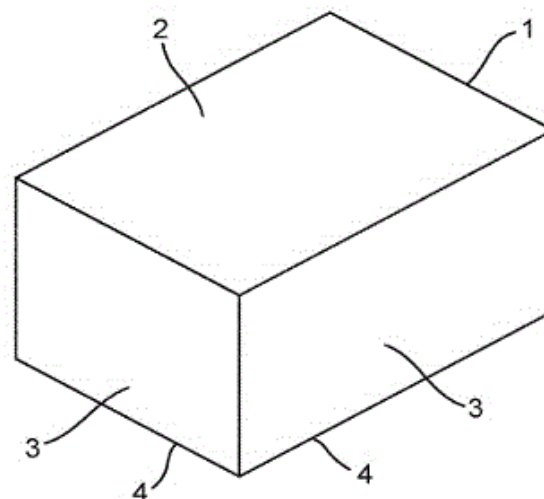
72: HIBAN, DOUGLAS JOHN, MOADDEL, TEANOOSH, VASUDEVAN, TIRUCHERAI VARAHAN

33: EP 31: 21171969.5 32: 2021-05-04

54: HYDRATABLE CONCENTRATED SURFACTANT COMPOSITION SUBSTANTIALLY FREE OF ISETHIONATES

00: -

The invention is directed to a hydratable concentrated surfactant composition. The composition is pourable, easy to dilute, substantially free of sulfate and oil, comprises a C₆-C₁₄ acid, alcohol, amide or mixture thereof, anionic surfactant and an amphoteric surfactant, zwitterionic surfactant or both. The composition is in lamellar phase and thickens and transforms to an isotropic phase upon dilution. The composition is substantially free of isethionates, can be used as a concentrate in small volumes and diluted as used and needed or can be diluted with water in refill packaging to ensure a reduction in plastic waste.



21: 2023/09375. 22: 2023/10/06. 43: 2025/01/20
51: B65D; C11D

71: UNILEVER GLOBAL IP LIMITED

72: ASHTON, ROSS DAVID, OWENS, KIERAN DEAN

33: EP 31: 21173808.3 32: 2021-05-14

54: PACKAGE CONTAINING WATER-SOLUBLE CAPSULES

00: -

A package comprising at least one layer of biodegradable material and containing a plurality of unit dose products, at least one unit dose product comprising a detergent composition comprising hydrogenated castor oil within a sealed compartment formed by a water soluble film.

21: 2023/09376. 22: 2023/10/06. 43: 2025/01/20
51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: CHACKO, ABRAHAM, KUMAR, GIRISH, KUMAR, SHARAVAN, PAWAR, KUNAL SHANKAR, SHAIKH, NADEEM

33: EP 31: 21174573.2 32: 2021-05-19

54: PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE

00: -

The present invention relates to a process for preparing of a particulate, free flowing detergent particle by a slurry making and spray drying technique. In particular it relates to the process for preparing a slurry with lower alkalinity for the production of spray dried laundry detergent particle. Thus, there is a need to provide a spray dried detergent particle which has lowered levels of the deterative surfactant without adversely affecting the free-flowing powder properties over extended storage life. It is thus an object of the present invention to provide a spray-dried particle prepared from a process comprising a stable, non-phase separating detergent slurry which upon spray drying provides for a spray-dried detergent particle having optimum levels of carbonate builder levels and silicate salt. The present inventors have found that a spray dried detergent particle having an in-situ formed silicate and/or a disilicate a salt of alkaline earth metal, by reacting an alkali metal silicate with an alkaline earth metal salt, along with an alkali metal silicate salt provides for excellent powder properties when the deterative surfactant content is

lowered, it also provides extended shelf life without getting caked. It is also surprisingly found that the spray-dried particle provides desired pH in wash solution required for good stain removal performance without being harsh on the hands or the fabrics.

21: 2023/09398. 22: 2023/10/09. 43: 2025/01/20
51: G06F; G10L

71: DOLBY INTERNATIONAL AB
72: VILLEMoes, LARS, PURNHAGEN, HEIKO, EKSTRAND, PER

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.

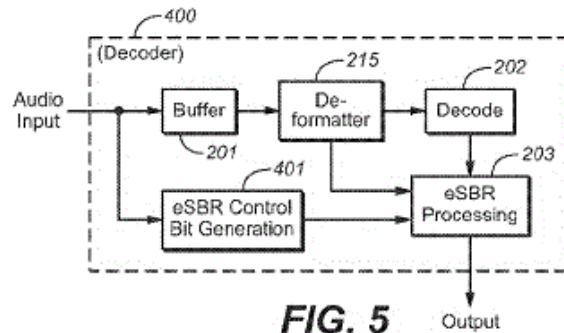


FIG. 5

21: 2023/09455. 22: 2023/10/10. 43: 2025/01/20
51: H04M; H05K; H01Q

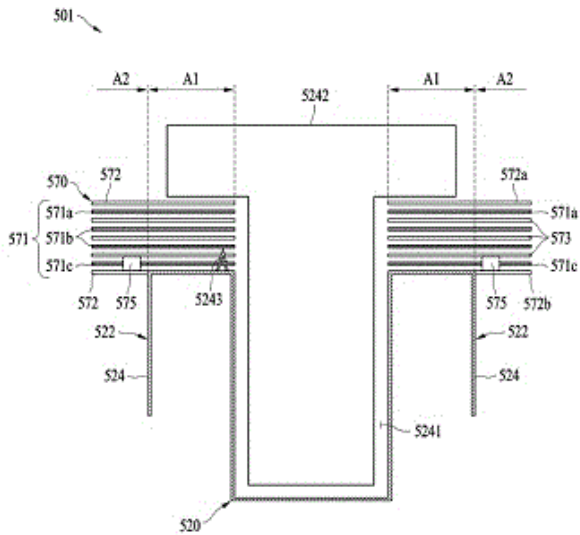
71: SAMSUNG ELECTRONICS CO., LTD.
72: OH, MYEONGSU, KIM, YONGYOUN, CHU, DUHO, HONG, YOUNGJUNE

33: KR 31: 10-2021-0046941 32: 2021-04-12

54: ELECTRONIC APPARATUS FOR STABLE ELECTRICAL CONNECTION

00: -

An electronic apparatus according to various embodiments comprises: a housing having a coupling region; and a printed circuit board that has an overlap region overlapping the coupling region and a non-overlap region not overlapping the coupling region. The printed circuit board includes a plurality of metal layers and a plurality of lines. The printed circuit board may include a void section in which a portion of at least one metal layer close to the coupling region among the plurality of metal layers is not formed.



21: 2023/09456. 22: 2023/10/10. 43: 2025/01/20
 51: C07K; A61P; A61K
 71: KING'S COLLEGE LONDON
 72: SPICER, JAMES, KARAGIANNIS, SOPHIA
 33: EP 31: PCT/EP2021/060749 32: 2021-04-23
 33: GB 31: 2109550.0 32: 2021-07-01

54: COMPOSITION COMPRISING AN IGE ANTIBODY

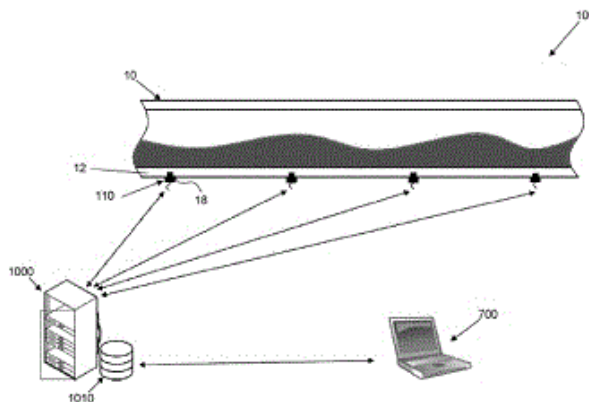
00: -
 In one aspect, the present invention relates to an anti-folate receptor alpha (FRα) immunoglobulin E (IgE) antibody for use in treating a low FRα-expressing tumor in a subject.

21: 2023/09482. 22: 2023/10/11. 43: 2025/01/20
 51: G01B; G01N
 71: 2C HOLDINGS PTY LTD
 72: EAMES, COLIN NEIL, VAUGHAN, COREY
 33: AU 31: 2019901154 32: 2019-04-04

54: A PIPE WEAR MONITORING SYSTEM AND METHOD OF USE THEREOF

00: -
 A pipe wear monitoring system including at least one base station, a plurality of wear sensors spaced along a length of a pipe and operatively connected to the at least one base station, and at least one remotely accessible server operatively connected to the base station for receiving and monitoring data output from said sensors via said at least one base station. Each wear sensor is configured to detect wear in a wall of the pipe. The server is configured to generate an alert when said data received from any one of the plurality of wear sensors is indicative of irregular wear in the wall of the pipe. The wear

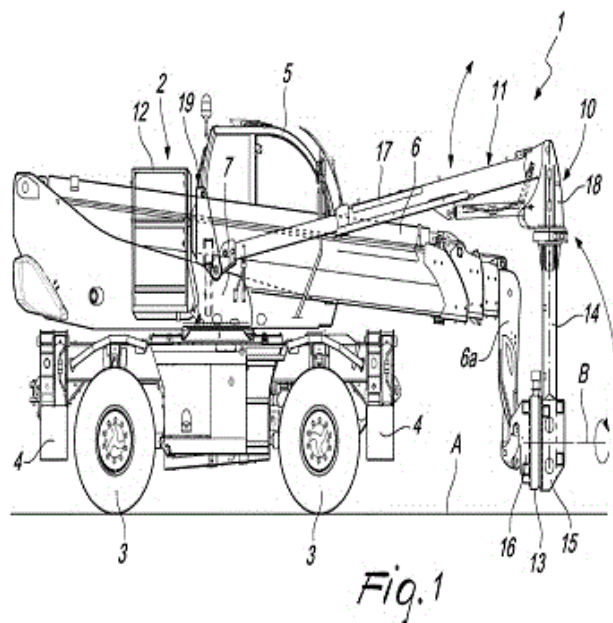
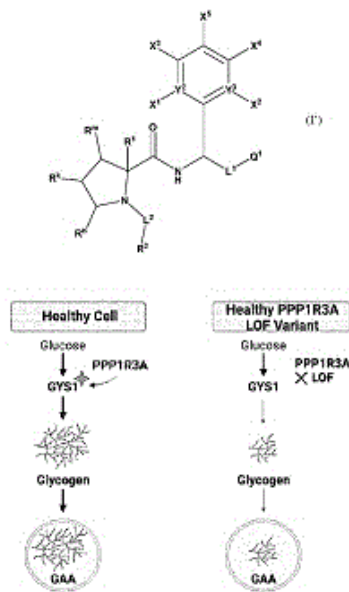
sensors are sacrificial wear sensors including a sacrificial probe configured to be at least partially destroyed in response to wear in an inner sidewall of the pipe. The sacrificial probe includes a board having a plurality of electrical circuits defined thereon, each individual circuit of the plurality and the board configured to be sequentially at least partially destroyed in response to wear in a sidewall of the pipe, wherein sequential at least partially destruction of each said individual circuit enables wear in the sidewall to be incrementally monitored and a wear rate to be determined.



21: 2023/09503. 22: 2023/10/11. 43: 2025/01/20
 51: A61K
 71: MAZE THERAPEUTICS, INC.
 72: MORGANS JR., DAVID JOHN, MELLEM, KEVIN, POWERS, HANNAH L, LEE, PATRICK SANG TAE, WON, WALTER, SINZ, CHRISTOPHER JOSEPH
 33: US 31: 63/161,347 32: 2021-03-15
 33: US 31: 63/266,572 32: 2022-01-09

54: INHIBITORS OF GLYCOGEN SYNTHASE 1 (GYS1) AND METHODS OF USE THEREOF

00: -
 Provided herein are compounds of formula (I') or a stereoisomer or tautomer thereof, or a pharmaceutically acceptable salt of any of the foregoing, wherein Y², Y³, L¹, L², X¹, X², X³, X⁴, X⁵, Q¹, R¹, R², R^k, R^m, and Rⁿ are as defined elsewhere herein. Also provided herein are methods of preparing compounds of formula (F). Also provided herein are methods of inhibiting GYS1 and methods of treating a GYS1-mediated disease, disorder, or condition in an individual in need thereof.

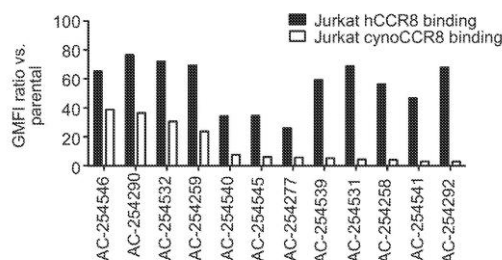


21: 2023/09505. 22: 2023/10/11. 43: 2025/01/20
 51: B66F
 71: MAGNI REAL ESTATE S.R.L.
 72: MAGNI, RICCARDO
 33: IT 31: 102021000007268 32: 2021-03-25
54: SELF-PROPELLED WORK VEHICLE
 00: -

A self-propelled work vehicle, which comprises at least one vehicle (2) which can move over ground (A) and supports at least one main telescopic arm (6), which is coupled, directly or indirectly, with a first end to the vehicle (2) and supports a work apparatus (10) at the opposite end; the apparatus (10) comprises means (11) for moving a work platform (12) which is adapted to accommodate at least one operator; the moving means (11) are configured to move the platform (12) with respect to the main arm (6) and to support the platform (12) in a plurality of different work positions; the means (11) are supported rotatably by the main arm (6) by way of an axial bearing (13), which is adapted to support the means (11) in one configuration chosen among at least one first working configuration and one second working configuration, which can be obtained from the first with a rotation of the means (11) with respect to the main arm (6) equal to a predefined angle.

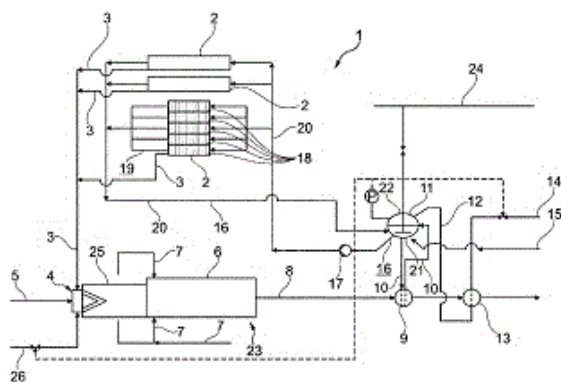
21: 2023/09516. 22: 2023/10/11. 43: 2025/01/10
 51: A61P; C07K
 71: AbbVie Inc.
 72: MCCLUSKEY, Andrew J., SCHMIDT PAUSTIAN, Amanda M., SEAGAL, Jane, WILSBACHER, Julie L.
 33: US 31: 63/226,118 32: 2021-07-27

54: ANTI-CCR8 ANTIBODIES
 00: -
 The present disclosure provides anti-CCR8 antibodies, including compositions and methods of using such antibodies.



21: 2023/09558. 22: 2023/10/12. 43: 2025/01/20
 51: C10B; C10L; C10K
 71: RWE GENERATION NL B.V.
 72: EURLINGS, JOHANNES THEODORUS GERARDUS MARIE
 33: EP 31: 21200579.7 32: 2021-10-01
54: TORREFACTION UNIT AND METHOD
 00: -
 The torrefaction unit (1) comprises at least one multiple hearth furnace (2) which is heated by a heat

transfer fluid (16) comprising hot water taken from a water space (21) of a steam drum (11). The heat transfer fluid (16) is guided through a water circuit (20) to a heating system (19) of the at least one multiple hearth furnace (2). This means the multiple hearth furnace (2) is heated to a torrefaction temperature indirectly by the use of hot water as heat transfer fluid (16). This is environmentally advantageous. The torrefaction gas (3) created by the torrefaction of material comprising biomass such as municipal solid waste is preferably partially oxidized in a partial oxidation reactor (23) for creating syngas. Preferably, a part of the thermal energy of the syngas is used in an evaporator (9) and/or a superheater (3) to heat water and/or steam and/or to evaporate water. The evaporated water is preferably guided to a steam space (22) of the steam drum (11) and can, thus, be used to heat the heat transfer fluid (16). The partial oxidation reactor (23) and the temperature of the heat transfer fluid (16) can be controlled independently allowing to one single partial oxidation reactor (23) for at least two multiple hearth furnaces (2).



21: 2023/09560. 22: 2023/10/12. 43: 2025/01/20
51: C07F; C01B; C05G
71: NOVAEM BBTRADE
72: BEAL, BERNARD, BELLEPERCHE, ERIC,
MONTAGNIER, BRUNO
33: FR 31: 2104347 32: 2021-04-27

**54: METHOD FOR PRODUCING PHOSPHORYL
OR THIOPHOSPHORYL TRIAMIDE, AND USE OF
COMPOUND IN NITROGEN FERTILIZER
FORMULATIONS**

00: -

Disclosed is a method for producing phosphoryl triamide $OP(NH_2)_3$ or thiophosphoryl triamide $SP(NH_2)_3$, wherein a) phosphoryl trichloride $OPCl_3$ or thiophosphoryl trichloride $SPCl_3$, respectively, is reacted with gaseous ammonia in an apolar liquid phase to give a first precipitate comprising, respectively, phosphoryl triamide or thiophosphoryl triamide, and ammonium chloride, b) said first precipitate is treated with sodium carbonate or potassium carbonate, preferably with sodium carbonate, in a polar organic liquid phase, to give a second precipitate comprising $NaCl$ and the remaining phosphoryl triamide or thiophosphoryl triamide in said polar organic liquid phase, and said second precipitate is separated from said polar organic liquid phase, said phase optionally being further subjected to a concentration step to enrich it in phosphoryl triamide or thiophosphoryl triamide.

21: 2023/09561. 22: 2023/10/12. 43: 2025/01/20
51: A44C
71: BAUER, STEVEN J
72: BAUER, STEVEN J
33: US 31: 17/210,208 32: 2021-03-23

**54: CUSTOMIZED JEWELRY DESIGN BY
TRANSPPOSITION OF DATES INTO TIMES**

00: -

The invention provides customized jewelry designs for pendants, earrings, bracelets, rings and other types of jewelry that display a specific time or calendar date on the jewelry to commemorate a special time or date. The jewelry is divided into sixty segments and at least one set comprised of two design elements are placed on the jewelry. The first element of a set is positioned on the jewelry at one of sixty segments and represents an hour hand of a clock. The second design of a set also is positioned on the jewelry at one of sixty segments and represents the minute hand. The placement of each set of design elements may represent a specific time, or the specific time may represent a calendar day, i.e., the number of the month and the number of the day which has been transposed into one or more specific times on the clock.

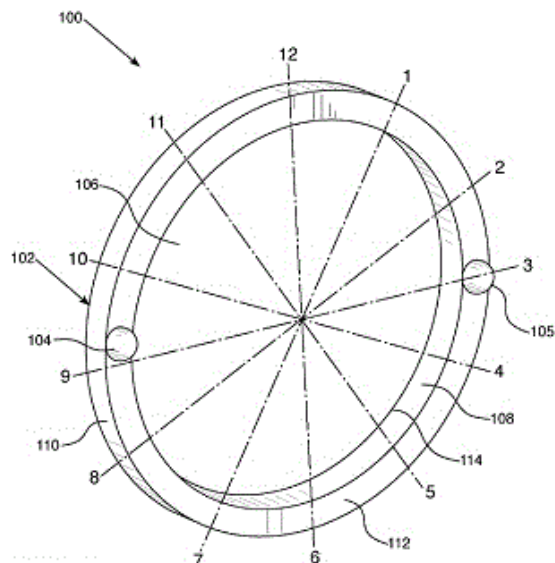
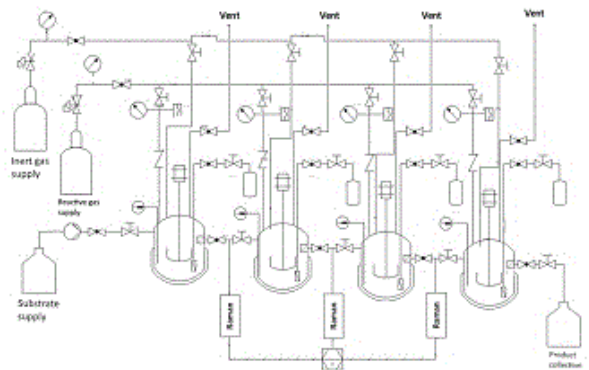


FIG. 1



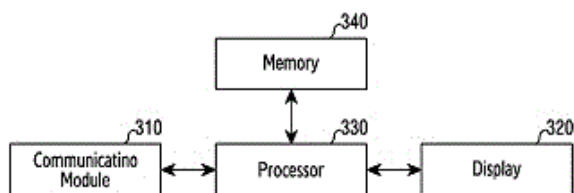
21: 2023/09593. 22: 2023/10/13. 43: 2025/01/20
 51: B01J; C07C
 71: IPSOMEDIC
 72: LECOMTE-NORRANT, EDITH
 33: FR 31: FR2104386 32: 2021-04-27

54: GAS-LIQUID-SOLID AND LIQUID-SOLID REACTOR CASCADE FOR CARRYING OUT CONTINUOUS-FLOW CHEMICAL REACTIONS UNDER HIGH PRESSURE AND/OR HIGH TEMPERATURE

00: -
 The present invention relates to a device for carrying out continuous-flow chemical reactions under pressure or high pressure using a cascade of perfectly stirred Gas-Liquid-Solid reactors, and to the use of these devices for the implementation of such reactions. The device comprises a cascade of interconnected autoclave reactors. The reactors of the cascade are of different volumes and are provided with means allowing them to be controlled individually in a completely independent manner. The cascade of reactors comprises at least two reactors of different volumes, increasing or decreasing in the fluid flow direction.

21: 2023/09594. 22: 2023/10/13. 43: 2025/01/20
 51: H04L; G06Q; G16Y
 71: SAMSUNG ELECTRONICS CO., LTD.
 72: PARK, JIHWAN, KIM, JONGHWAN
 33: KR 31: 10-2021-0034140 32: 2021-03-16
54: DEVICE FOR PROVIDING IOT SERVICE AND METHOD THEREFOR

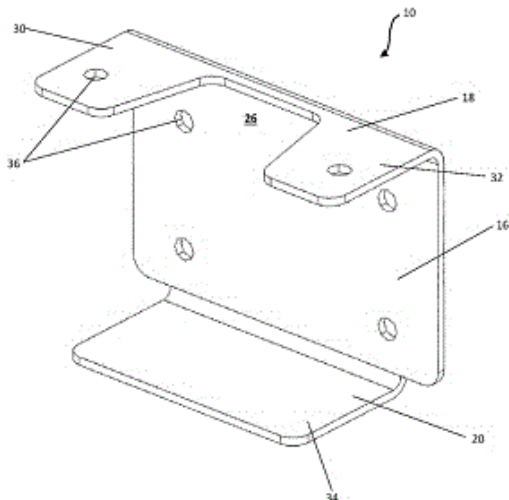
00: -
 Disclosed are a method for providing an IoT service and an electronic device therefor. The electronic device may comprise a communication module, a display, at least one processor, and a memory. The at least one processor may: receive a first message including purchase information of an external electronic device from an IoT server; display information about the external electronic device on the display in response to receiving the first message; receive a second message instructing completion of delivery of the external electronic device from the IoT server; and display a user interface for registration of the external electronic device on the display in response to receiving the second message. Various other embodiments identified through the present document are also possible.



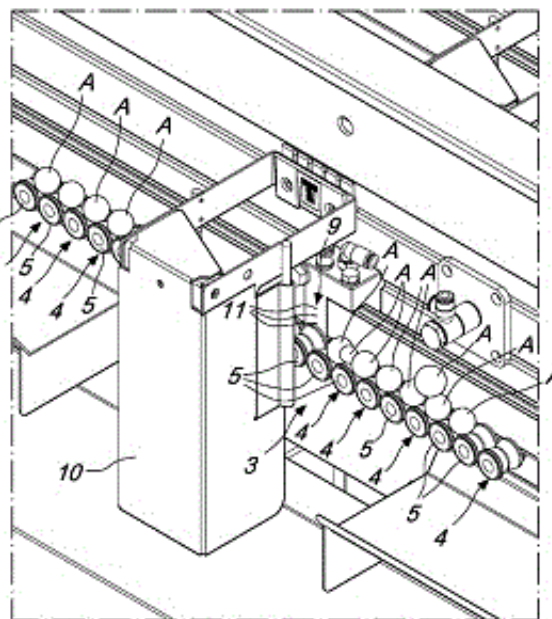
21: 2023/09645. 22: 2023/10/16. 43: 2025/01/20
 51: E04B; E06B
 71: ETEX AUSTRALIA PTY LTD, ETEX BUILDING PERFORMANCE INTERNATIONAL SAS
 72: WRIGHT, BENJAMIN NEIL
 33: AU 31: 2021202304 32: 2021-04-16

54: WALL FRAMING BRACKET AND ASSEMBLY

00: -
 Wall framing bracket (10) for securing a header (12) to a stud (14). The bracket (10) includes a back-plate (16) configured to be secured to the stud (14), and opposed sides (18, 20) extending from the back-plate (16). The sides (18, 20) are spaced apart to allow arranging against, and fixing to, opposed surfaces (22, 24) of the header (12). One of the sides (18) defines an opening (26) to allow access to the other side (20) to secure one or more fasteners (28) there through and into the header (12). Wall framing assembly (100) including the bracket (10) is also disclosed.



horticultural product (A) in transit and to transmit the information to an electronic control and management element, - a distribution station (8), which is arranged downstream of the detection station (6) and is configured for the selective conveyance of each horticultural product (A) in transit toward one of at least two separate collection stations.



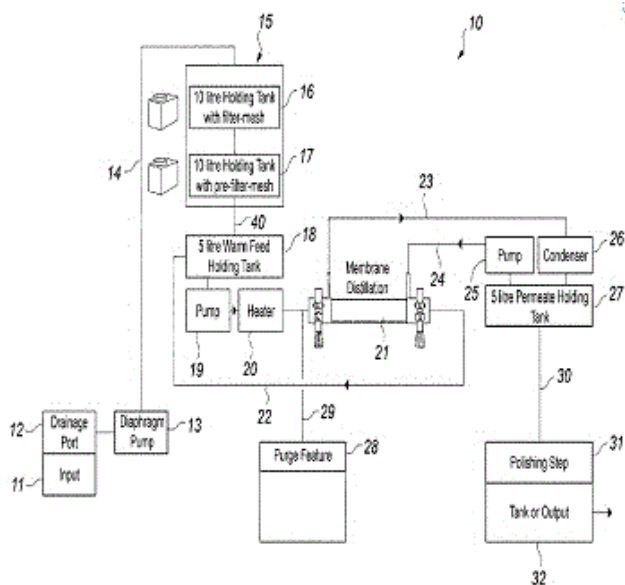
21: 2023/09646. 22: 2023/10/16. 43: 2025/01/20
 51: B07C
 71: UNITEC S.P.A.
 72: BENEDETTI, LUCA
 33: IT 31: 102021000009185 32: 2021-04-13

54: PLANT FOR TREATING HORTICULTURAL PRODUCTS

00: -
 A plant (1) for the treatment of horticultural products, comprising at least one line (2) for the handling and treatment of horticultural products comprising - a system (3) for the discrete conveyance of the horticultural products (A), which operates along at least one portion of the line (2) and comprises a plurality of discrete accommodation units (4) which can move in a cyclic manner along the portion - a detection station (6), which is arranged along the portion and is configured to acquire information related to at least one parameter of interest of each

21: 2023/09652. 22: 2023/10/16. 43: 2025/01/20
 51: C02F; A47K; B01D; E03D
 71: CRANFIELD UNIVERSITY
 72: WILLIAMS, LEON MATTHEW
 33: GB 31: 2104942.4 32: 2021-04-07
54: HUMAN WASTE PROCESSING APPARATUS AND METHOD

00: -
 A human solid and liquid waste treatment system including method and apparatus for the separation of solid and liquid waste and the further filtration and purification of liquid waste suitable for recycled use. The system comprises a plurality of pre-filtration units provided up-stream of a membrane distillation unit for the energy efficient filtering of waste liquid.



54: PLANTS OF THE SPECIES BETA VULGARIS WITH RESISTANCE TO CERCOSPORA

00: -
 The present invention relates to Beta vulgaris plants resistant to Cercospora. The present invention further relates to methods for identifying Cercospora resistant Beta vulgaris plants, methods for providing Cercospora resistant Beta vulgaris plants and means for identifying Cercospora resistant Beta vulgaris plants. Specifically, the present invention relates to Cercospora-resistant Beta vulgaris plants comprising a first Cercospora resistance providing genomic fragment on chromosome 4, wherein said first Cercospora resistance providing genomic fragment comprises at least one sequence from the group consisting of SEQ ID Nos. 1, 3, 5, 7, 9, 11, 13, and 15.

21: 2023/09653. 22: 2023/10/16. 43: 2025/01/20
 51: C22C; C22F

71: CONSTELLIUM NEUF-BRISACH,
 CONSTELLIUM MUSCLE SHOALS LLC,
 CONSTELLIUM ROLLED PRODUCTS SINGEN
 GMBH & CO.KG

72: GUIGLIONDA, GILLES, ARBAB, ALIREZA

33: FR 31: FR2104673 32: 2021-05-04

54: 5XXX ALUMINIUM SHEETS FOR CAN MAKING

00: -
 The invention concerns a 5xxx series aluminium sheet made of an alloy comprising in wt. %: Mg: 2.5 – 4.0, Mn: 0.7 – 1.2, Fe: 0.25 – 0.55, Si: 0.20 – 0.50, Cu: 0.10 – 0.25, Cr: up to 0.1, Zn: up to 0.25, Ti: up to 0.1, rest aluminium and unavoidable impurities up to 0.05 each and up to 0.15 in total. The method for producing the 5xxx series aluminium sheet of the invention comprises the steps of casting an ingot with a composition according to the invention, pre-heating the ingot, rough hot rolling on a reversible mill with a rough hot rolling entry temperature of more than 440°C, finish hot rolling the ingot with a hot rolling exit temperature of at least 300°C, cold rolling to obtain a cold rolled sheet. The invention also concerns a can end and a beverage can.

21: 2023/09695. 22: 2023/10/17. 43: 2025/01/20
 51: H04W

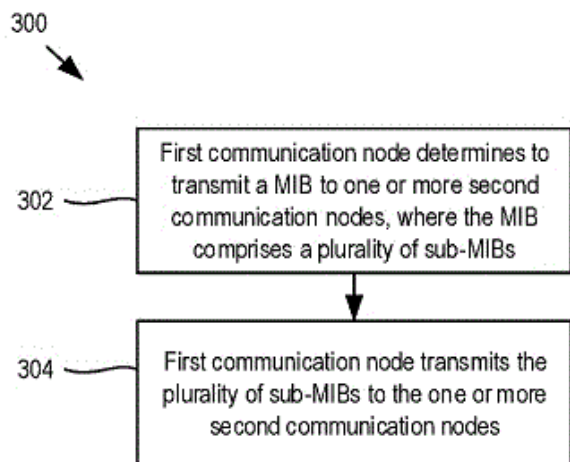
71: ZTE CORPORATION
 72: HU, YOUJUN, DAI, BO, BIAN, LUANJIAN,
 FANG, HUIYING, LIU, KUN

54: SUB-MIB TRANSMISSION SCHEMES

00: -
 A wireless communication system includes a plurality of communication nodes. A first communication node may determine transmit a master information block (MIB), where the MIB comprises a plurality of sub-MIBs. The first communication node transmits the plurality of sub-MIBs to one or more second communication nodes. A second communication node receives the plurality of sub-MIBs and detects the plurality of sub-MIBs. In various embodiments, the plurality of sub-MIBs includes a common sub-MIB common to different types of communication nodes, and a specific sub-MIB specific to a particular type of communication node.

21: 2023/09694. 22: 2023/10/17. 43: 2025/01/20
 51: A01H

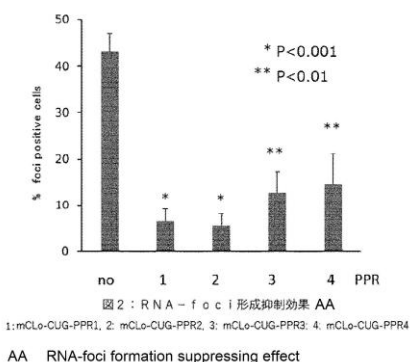
71: BEJO ZADEN B.V.
 72: VAN DORP, JACOB, JONG, ROSALINE ANNA
 MARIA, MOITA E COELHO, DORA LISA,
 SCHRIJVER, ALBERTUS JOHANNES MARIA



21: 2023/09721. 22: 2023/10/18. 43: 2025/01/29
 51: A61K; A61P; C07K; C12N
 71: EditForce, Inc.
 72: NAKAMORI, Masayuki, YAGI, Yusuke, IMAI, Takayoshi, OKII, Erika, TAMAI, Takayuki, NINOMIYA, Risa

33: JP 31: 2021-077262 32: 2021-04-30
54: THERAPEUTIC DRUG FOR MYOTONIC DYSTROPHY TYPE 1

00: -
 [Problem] To provide a pharmaceutical composition or a method that is effective in the therapy of myotonic dystrophy type 1 (DM1). [Solution] Provided is a drug or a method for the therapy of DM1 by using a modified PPR protein.



21: 2023/09726. 22: 2023/10/18. 43: 2025/01/16
 51: C11D
 71: UNILEVER GLOBAL IP LIMITED
 72: CHACKO, ABRAHAM, KUMAR, GIRISH, PAWAR, KUNAL SHANKAR, SHAIKH, NADEEM, KUMAR, SHARAVAN
 33: EP 31: 21174575.7 32: 2021-05-19
54: PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE

00: -
 The present invention relates to a process for preparing a particulate, free flowing detergent particle by a slurry making and spray drying technique. It is thus an object of the present invention to provide a process for preparing a detergent solution for a spray-dried detergent particle which provides for incorporating a carbonate builder and silicate salt at optimum levels whilst provides good cleaning performance and good powder properties. The present inventors have surprisingly found that a spray-dried detergent particle exhibits extended shelf life and demonstrates excellent powder properties without getting caked during use, when the spray dried detergent particle is prepared by a process where an in-situ silicate and/or a disilicate a salt of an alkaline earth metal is formed by reacting an alkali metal silicate with an alkaline earth metal salt, and the spray dried detergent particle also includes an alkali metal silicate salt along with optimum deterative surfactant content, filler and carbonate builder, wherein the composition preferably has no phosphate builder and zeolite builder.

21: 2023/09727. 22: 2023/10/18. 43: 2025/01/16
 51: C11D
 71: UNILEVER GLOBAL IP LIMITED
 72: CHACKO, ABRAHAM, KUMAR, GIRISH, KUMAR, SHARAVAN, PAWAR, KUNAL SHANKAR, SHAIKH, NADEEM, SINGH, SATYENDRA PRASAD
 33: EP 31: 21174569.0 32: 2021-05-19
54: PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE

00: -
 The present invention relates to a process for preparing of a particulate, free flowing detergent particle by a slurry making and spray drying technique. It is an object of the present invention to provide a process for preparing a detergent solution which upon spray-drying provides a spray-dried particle having lower reserve alkalinity and which is less harsh on hands and provides good fabric care performance. The present inventors have found a way to provide a free-flowing spray-dried detergent particle which is gentle on hand, gives good fabric care performance, good fabric cleaning performance and which also retains good powder properties by providing a process of preparing a detergent solution

which yields lower reserve alkalinity in the spray-dried particle and has a pH preferably from 10.5 to 11.5 and preferably without impacting the current level of alkaline builders such as sodium carbonate and sodium silicate in the composition.

21: 2023/09729. 22: 2023/10/18. 43: 2025/01/16
51: C11D

71: UNILEVER GLOBAL IP LIMITED
72: CHACKO, ABRAHAM, KUMAR, GIRISH,
KUMAR, SHARAVAN, PAWAR, KUNAL SHANKAR,
SHAIKH, NADEEM

33: EP 31: 21174577.3 32: 2021-05-19

54: PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE

00: -

The present invention relates to a process for preparing of a particulate, free flowing detergent particle by a slurry making and spray drying technique. In particular it relates to the process for preparing a slurry with lower alkalinity for the production of spray dried laundry detergent particle. It is thus an object of the present invention to provide a process for preparing a detergent solution for a spray-dried detergent particle which provides for incorporating higher levels of the deterative surfactant whilst providing good powder properties. The present inventors have found that a spray dried detergent particle prepared from a slurry with high deterative surfactant content in presence of an in-situ formed silicate and/or a disilicate salt of alkaline earth metal, formed by reacting an alkali metal silicate with an alkaline earth metal salt, and an alkali metal silicate salt provides for excellent powder properties and extended shelf life without getting caked. It is also surprisingly found that the spray-dried particle provides desired pH in wash solution required for good stain removal performance without being harsh on the hands or the fabrics.

21: 2023/09730. 22: 2023/10/18. 43: 2025/01/16
51: E21C; B02C

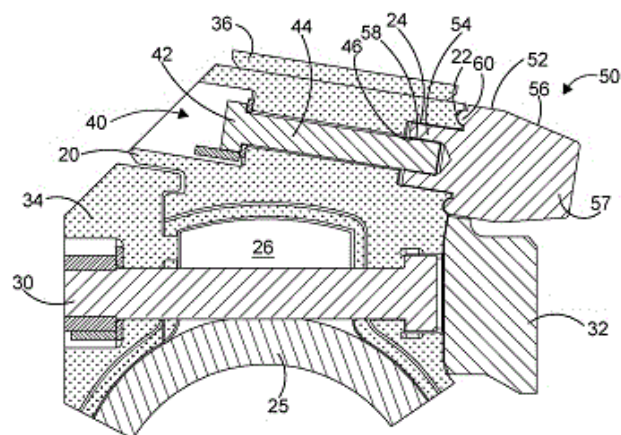
71: MMD GROUP LIMITED
72: PEARSON, CHRISTOPHER

33: GB 31: 2107129.5 32: 2021-05-19

54: TOOTH FORMATION AND TOOTH PICK FORMATION

00: -

A tooth formation for use in a mineral processing machine is described. The tooth formation has: a pick formation comprising an elongate body comprising a shaft having at one axial end a mineral breaking pick head extending radially beyond the elongate body to define a rearwardly facing first seating surface; and a support formation defining a receiving aperture of complementary shape and size to said shaft of said elongate body so as to receive the same, and a forwardly facing second seating surface configured to abut the first seating surface of the pick formation with the shaft so received. The first and second seating surfaces comprise arrangements of one or more complementary projections and recesses radially symmetrically disposed about an axial direction of the elongate body. A mineral processing machine including at least one and preferably a plurality of tooth assemblies or tooth cap assemblies according to any preceding claim. A drum assembly for a mineral processing machine having tooth assemblies thereon and a machine incorporating the same are also described.



21: 2023/09731. 22: 2023/10/18. 43: 2025/01/16
51: C12N

71: QINGDAO KINGAGROOT CHEMICAL
COMPOUND CO., LTD.
72: MO, SUDONG, LIU, GUIZHI, WANG, LEI, HOU,
QIQI, CHEN, BO

33: CN 31: 202110361141.6 32: 2021-04-02

33: CN 31: 202210136187.2 32: 2022-02-15

54: PPO POLYPEPTIDES TOLERANT TO PPO-INHIBITING HERBICIDES AND USE THEREOF

00: -

The present invention relates to the field of biotechnology, and specifically relates to a PPO polypeptide tolerant to PPO-inhibiting herbicides and use thereof. The said polypeptide contains the motif "LLLNYI", wherein leucine L at position 3 in the said motif is substituted with any other amino acid, or tyrosine Y at position 5 is substituted with any other amino acid. It can be used in plants, including commercial crops, to greatly improve plant resistance to PPO-inhibiting herbicides according to the herbicide resistance characteristics and herbicide selectivity, so as to control weed growth economically.

21: 2023/09735. 22: 2023/10/18. 43: 2025/01/16
51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: BAO, CHUNHUI, YIN, QIN

33: EP 31: 21181575.8 32: 2021-06-24

33: CN 31: PCT/CN2021/093361 32: 2021-05-12

54: COMPOSITION

00: -

A composition comprising from 30% to 100% by weight of a surfactant system which comprises an alkoxyated glycerol ester and an alkyl sulfate, wherein the weight ratio of the alkoxyated glycerol ester to the alkyl sulfate is at least 2:1.

21: 2023/09736. 22: 2023/10/18. 43: 2025/01/16
51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: BAO, CHUNHUI, SHEN, JUN, YIN, QIN

33: CN 31: PCT/CN2021/093363 32: 2021-05-12

33: EP 31: 21181559.2 32: 2021-06-24

54: COMPOSITION

00: -

A composition comprising from 30% to 100% by weight of a surfactant system which comprises an anionically modified alkoxyated glycerol ester and an alkyl sulfate; wherein the anionically modified alkoxyated glycerol ester is sulfonated ethoxyated glycerol ester.

21: 2023/09737. 22: 2023/10/18. 43: 2025/01/16
51: C01B

71: INFINIUM TECHNOLOGY, LLC

72: SCHUETZLE, DENNIS, SCHUETZLE, ROBERT, HANBURY, ORION, CALDWELL, MATTHEW, MCGINNIS, GLENN, RODRIGUEZ, RAMER

33: US 31: 17/300,261 32: 2021-05-03

54: IMPROVED CATALYTIC REACTOR SYSTEM AND CATALYST FOR CONVERSION OF CAPTURED CO₂ AND RENEWABLE H₂ INTO LOW-CARBON SYNGAS

00: -

The present invention describes an improved catalytic reactor system with an improved catalyst that transforms CO₂ and low carbon H₂ into low-carbon syngas with greater than an 80% CO₂ conversion efficiency, resulting in the reduction of plant capital and operating costs compared to processes described in the current art. The inside surface of the adiabatic catalytic reactors is lined with an insulating, non-reactive surface which does not react with the syngas and effect catalyst performance. The improved catalyst is robust, has a high CO₂ conversion efficiency, and exhibits little or no degradation in performance over long periods of operation. The low-carbon syngas is used to produce low-carbon fuels (e.g., diesel fuel, jet fuel, gasoline, kerosene, others), chemicals, and other products resulting in a significant reduction in greenhouse gas emissions compared to fossil fuel derived products.

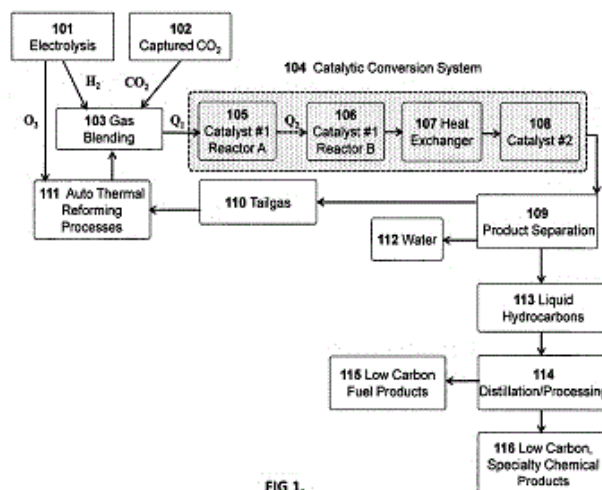


FIG 1.

21: 2023/09738. 22: 2023/10/18. 43: 2025/01/16
51: B65D; C11D

71: UNILEVER GLOBAL IP LIMITED

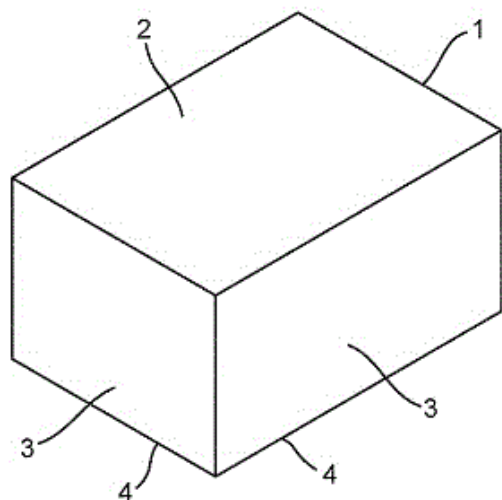
72: ASHTON, ROSS DAVID, OWENS, KIERAN DEAN

33: EP 31: 21173810.9 32: 2021-05-14

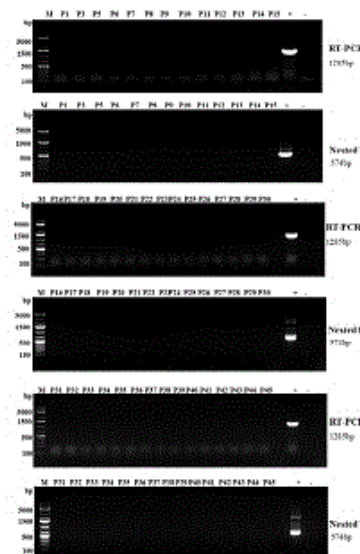
54: PACKAGE CONTAINING WATER-SOLUBLE CAPSULES

00: -

A package comprising at least one layer of biodegradable material and containing a plurality of unit dose products, at least one unit dose product comprising a detergent composition comprising sequestrant within a sealed compartment formed by a water soluble film, said package comprising a child-resistant closure mechanism.



for sterility, mycoplasma, exogenous virus and tumorigenicity according to pharmacopoeial requirements, and the results show that all indicators satisfy the requirements, and the cell can be used in or for the production of recombinant proteins and recombinant protein vaccines based on the baculovirus expression system.

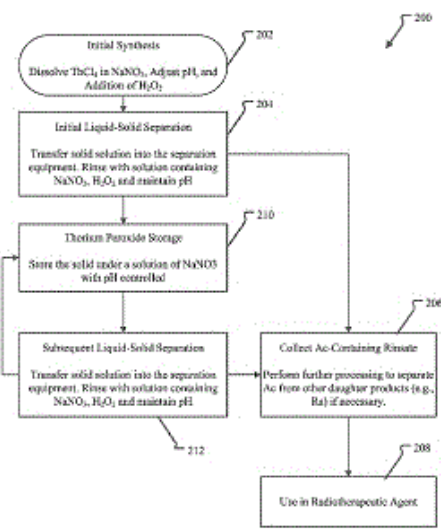
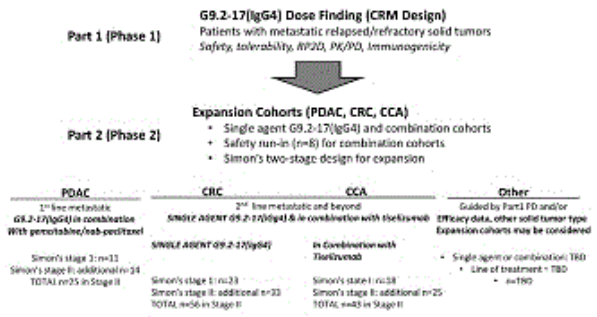


21: 2023/09771. 22: 2023/10/19. 43: 2025/01/16
 51: C12N
 71: WESTVAC BIOPHARMA CO., LTD.
 72: SHEN, GUOBO, WEI, XIAWEI, WEI, YUQUAN, YANG, LI
 33: CN 31: 202210194024.X 32: 2022-03-01
54: RHABDOVIRUS-NEGATIVE SPODOPTERA FRUGIPERDA INSECT CELL LINE, AND SCREENING, IDENTIFICATION AND APPLICATION THEREOF

00: -
 The invention pertains to the technical fields of genetic engineering and cell engineering, and in particular relates to a rhabdovirus-negative spodoptera frugiperda insect cell line, and screening, identification and application thereof. According to the invention, the rhabdovirus-negative spodoptera frugiperda insect cell line WSK-Sf9, with a CCTCC accession number C202246, is obtained through screening and identification. The cell line is verified through various high-sensitivity test methods such as nested PCR, transcriptome next-generation sequencing, realtime fluorescence quantitative PCR and Taqman probe-based real-time PCR, and finally obtained the Sf-rhabdovirus-negative spodoptera frugiperda insect cell line WSK-Sf9. The cell is tested

21: 2023/09775. 22: 2023/10/19. 43: 2025/01/16
 51: A61K; C07K; A61P
 71: PURETECH LYT, INC.
 72: FILIPOVIC, ALEKSANDRA, ELENKO, ERIC, PADEN, HEATHER, KORTH, CHRISTOPHER
 33: US 31: 63/182,521 32: 2021-04-30
 33: US 31: 63/193,357 32: 2021-05-26
 33: US 31: 63/313,879 32: 2022-02-25
54: ANTI-GALECTIN-9 ANTIBODIES AND THERAPEUTIC USES THEREOF

00: -
 Disclosed herein are methods for treating solid tumors (e.g., pancreatic ductal adenocarcinoma (PDAC), colorectal cancer (CRC), hepatocellular carcinoma (HCC), cholangiocarcinoma (CAA), renal cell carcinoma (RCC), urothelial, head and neck, breast cancer, lung cancer, or other gastrointestinal solid tumors), using an anti-Galectin-9 antibody, e.g., as a monotherapy or as a combined therapy with an immune checkpoint inhibitor.



21: 2023/09777. 22: 2023/10/19. 43: 2025/01/16
 51: G21G; C22B
 71: TERRAPOWER, LLC
 72: CZERWINSKI, KEN, FITZGERALD, HILARY
 33: US 31: 63/187,728 32: 2021-05-12

54: THORIUM PEROXIDE-BASED GENERATOR FOR AC-225 GENERATION

00: -
 The actinium generator described herein is based on peroxide precipitation of thorium from its daughter products radium and actinium. In this system, the "actinium generator" is a quantity of solid thorium peroxide stored under a cover solution. The thorium peroxide is stored, as a suspension to allow for the buildup of the decay products radium and actinium in the suspension. The suspension is then treated with a peroxide solution and the solid and liquid phases are separated. The thorium remains in the solid peroxide form while the soluble actinium and radium are removed with the liquid phase in a rinsing step. After rinsing, an amount of the rinsing solution is retained with the thorium peroxide solid as a fresh cover solution to form another suspension for storage. This new suspension is then stored to allow actinium and radium to again build up in the suspension for a subsequent separation cycle.

21: 2023/09778. 22: 2023/10/19. 43: 2025/01/16
 51: C12Q

71: BIOFIDELITY
 72: OSBORNE, ROBERT, STOLAREK-JANUSZKIEWICZ, MAGDALENA, BALMFORTH, BARNABY
 33: GB 31: 2105405.1 32: 2021-04-15
 33: GB 31: 2111381.6 32: 2021-08-06
 33: GB 31: 2105388.9 32: 2021-04-15

54: NUCLEIC ACID ENRICHMENT AND DETECTION

00: -
 Disclosed is a hybridisation capture method based on the pyrophosphorolysis reaction. According to the present invention, there is provided a method for increasing the ratio of a first nucleic acid sequence to second nucleic acid sequence in a sample.

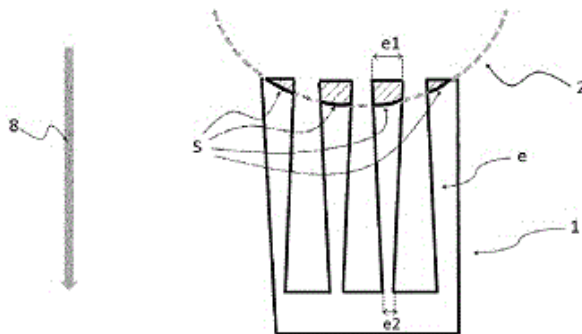
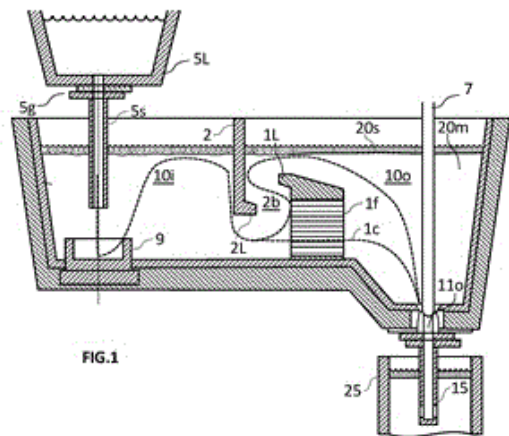
21: 2023/09779. 22: 2023/10/19. 43: 2025/01/16
 51: B22D

71: VESUVIUS U S A CORPORATION
 72: RICHAUD, JOHAN, KREIERHOFF, MARTIN, ROGLER, JOHN, CHAKRABORTY, ABHISHEK
 33: EP 31: 21172786.2 32: 2021-05-07

54: TUNDISH WITH FILTER MODULE

00: -
 Filter module (1) of a filtering system for a tundish (10) comprises a filter unit (1f) provided with channels (1c) extending from a channel inlet to a channel outlet, and a wall module (2) comprising a wall defining an opening (2o) extending over an opening height (h2) from the floor (10f). A bypass passage (2b) is defined between the wall module (2) and the filter module (1) of largest width (t12) such

that the metal melt can only flow from the inlet portion to the outlet portion by flowing either through the channels of the filter unit (1f) or through the bypass passage (2b). The wall module comprises a wall ledge (2L) having a width (t2L). The filter module (1) further comprises a filter ledge (1L) having a width (t1L) and being offset vertically relative to the wall ledge (2L) to form therewith a baffle.



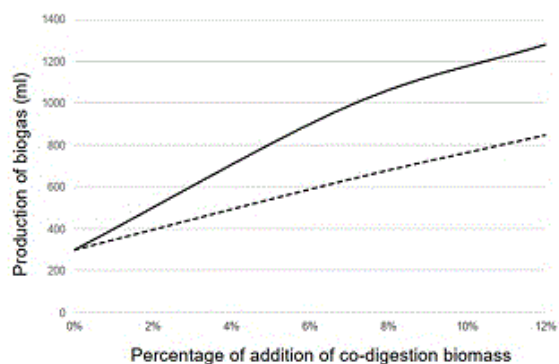
21: 2023/09813. 22: 2023/10/20. 43: 2025/01/16
 51: B60R
 71: HUTCHINSON
 72: VALEMBOIS, GUY
 33: FR 31: FR2104352 32: 2021-04-27

54: SACRIFICIAL COMPOSITE PART THAT ABSORBS ENERGY DURING A VEHICLE COLLISION

00: -
 The invention relates to a sacrificial composite part (1, 10, 100) that absorbs the energy released at the time of a vehicle collision with an impacting object (2), said part consisting of an assembly of a plurality of cells (3, 30, 300), each cell comprising a wall (5, 50, 500) connecting a first end (6, 60, 600) and a second end (7, 70, 700) of said cell, the direction of penetration (8) of the impacting object into said part going from said first end to said second end. Said sacrificial composite part of the invention is characterized in that that peripheral wall of each cell has a decreasing thickness (e) from said first end towards said second end of said cell, in the direction of penetration of the impacting object.

21: 2023/09814. 22: 2023/10/20. 43: 2025/01/16
 51: C12P; C05F; B09B
 71: ECONWARD TECH, S.L.U.
 72: APARICIO GAYA, JULIO CÉSAR, SALGUERO CARVAJAL, ALBERTO, SOLER, JULIÁN ALBERTO, MENA SANZ, JAVIER, GARCÍA CANO, RUBÉN
54: PRODUCTION PROCESS FOR PRODUCING BIOGAS BY MEANS OF ANAEROBIC CO-DIGESTION

00: -
 The invention relates to a production process for producing biogas by means of anaerobic co-digestion, comprising: (a) preparing hydrolyzed biomass from organic solid waste by means of a thermal hydrolysis treatment of waste at between 1.5 and 4.5 bar and between 120 and 160°C, generating raw biomass from which foreign matter is separated, giving rise to clean hydrolyzed biomass with at least 90 % organic matter, a volatile solids to total solids ratio of at least 0.6 and at least 5 % total solids; (b) mixing the clean hydrolyzed biomass with sludge from a wastewater treatment plant (WWTP), generating a mixture with a concentration of solids of less than 30 % which is conditioned to a concentration of less than 20 %; and (c) a step of wet anaerobic digestion in a digester at between 25°C and 40°C or between 50°C and 60°C and during an HRT of between 12 and 30 days, generating biogas and a digestate.



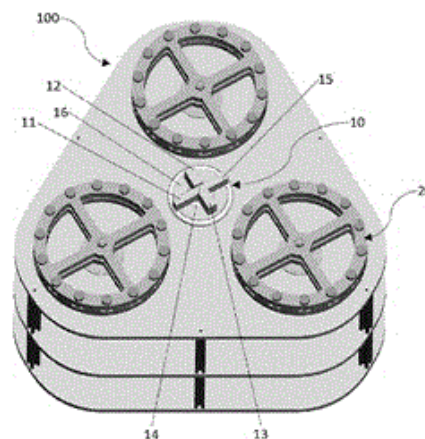
21: 2023/09815. 22: 2023/10/20. 43: 2025/01/14
 51: C07K; A61P
 71: UCB BIOPHARMA SRL
 72: LIGHTWOOD, DANIEL JOHN, KADIU, IRENA,
 BHATTA, PALLAVI, SPILIOPOULOS,
 ANASTASIOS, ELLIOTT, PETER CHARLES,
 KEANEY, JAMES MARTIN, DELKER, SILVIA L,
 ABENDROTH, JAN
 33: US 31: 63/183,280 32: 2021-05-03
54: ANTIBODIES

00: -
 The present invention relates to antibodies binding to TREM1 and inhibiting its interaction with one or more of its natural ligands. Specific examples of such antibodies are provided. The therapeutic uses of the antibodies and methods of generating such are also provided.

21: 2023/09816. 22: 2023/10/20. 43: 2025/01/16
 51: H02K
 71: NEODYMOTORS GMBH
 72: DE SOUSA PEREIRA, PAULO EDUARDO
**54: MAGNETIC INTERACTION SYSTEM
 BETWEEN ROTORS FOR PRODUCTION AND
 STORAGE OF KINETIC ENERGY**

00: -
 The present invention describes a magnetic interaction system between rotors for the production and storage of kinetic energy. The disclosed system comprises a primary rotor mechanically adapted to at least one platform by means of a rotation axis, said primary rotor comprising a first set of magnets; and at least three secondary rotors, mechanically adapted to the at least one platform by means of independent rotation axes equidistant from the rotation axis of the primary rotor; characterized in that each of the at least three secondary rotors comprises at least two overlapping platforms over

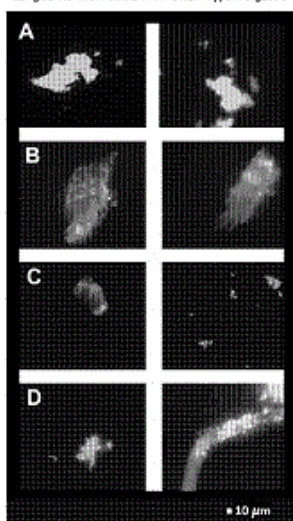
the same rotation axis, and on which a second set of magnets are adapted.



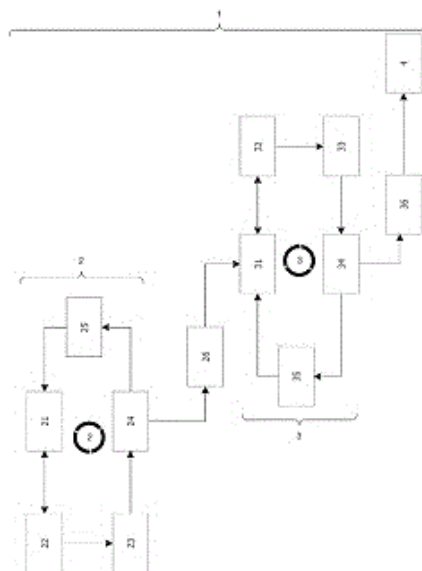
21: 2023/09817. 22: 2023/10/20. 43: 2025/01/16
 51: G01N
 71: STELLENBOSCH UNIVERSITY
 72: PRETORIUS, ETHERESIA
 33: GB 31: 2105644.5 32: 2021-04-20
**54: METHODS AND KITS FOR DIAGNOSING
 COVID-19 DISEASE**

00: -
 This invention relates to methods of diagnosing COVID-19 disease, preferably post-acute COVID-19 syndrome, in a subject using a fluorescent or microscopy detection method to detect persistent anomalous (amyloid) clottlets in the sample, wherein the presence of persistent anomalous (or amyloid) clottlets in the sample, particularly clottlets that are resistant to fibrinolysis, is indicative of either acute COVID-19 disease or post-acute COVID-19 syndrome in the subject. The invention also relates to diagnostic kits for diagnosing acute COVID-19 disease, in particular post-acute COVID-19 syndrome, in a subject based on the methods disclosed.

LongCOVID individuals : PPP after Trypsin digestion



(1) affecting the measured sensory parameter (141) values.



21: 2023/09867. 22: 2023/10/23. 43: 2025/01/16
 51: C12M; G05B; G06N; G16B; G16C
 71: BÜHLER AG
 72: BUCHMANN, LEANDRO
 33: EP 31: 21179569.5 32: 2021-06-15
 33: CH 31: 00600/21 32: 2021-05-27
54: OPTIMIZED INDUSTRIAL BIOREACTOR AND METHOD THEREOF, WITH MUTUALLY DEPENDENT, COUPLED PROCESS CONTROL LOOPS

00: -
 The invention relates to an industrial bioreactor (1) with a dual cycle-controlled optimization process providing an optimized cultivation process (21) for cell cultures (5/51), cell components (5/512) or metabolic products (5/52) of the cells in a nutrient medium (11). The bioreactor comprises a reactor vessel (12) providing controlled bioreactor conditions for the cultivation process (21), a control unit (13) connected to sensory devices (14) measuring sensory parameter (141) values comprising at least measures related to the composition (1411) of the nutrient medium (11) and/or concentration (1412) of the nutrient medium (11) and/or oxygen (1413) and/or temperature (1414) and/or pH-value (1415) and/or sterility (1416), and transmitting them to the control unit (13). The control unit (13) controls and automatically optimizes the operational parameter of the cultivation process (21) and operational parameters of a treatment process (31) applied to the cells during the cultivation process (21) by adjusting operational parameters of the bioreactor

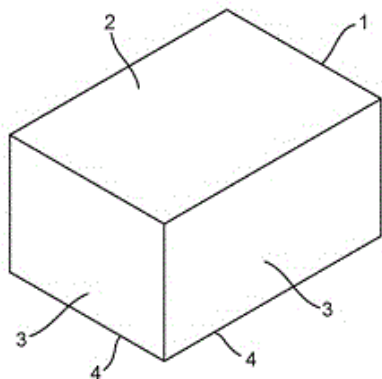
21: 2023/09869. 22: 2023/10/23. 43: 2025/01/16
 51: C11D
 71: UNILEVER GLOBAL IP LIMITED
 72: ACHARYA I S, NAGARAJA, APPAVOO, SHANTHI, GEORGE, MANU, MAHAPATRA, SAMIRAN
 33: EP 31: 21183619.2 32: 2021-07-05
54: A COMPOSITION FOR REDUCING MALODOUR

00: -
 The present invention relates to a laundry treatment composition. Particularly, the present invention relates to a fabric conditioning composition that ensures that the fabric remains fresh and free of malodours even under slow drying conditions. This is ensured by combining zinc salts with certain specific combination of essential oils.

21: 2023/09870. 22: 2023/10/23. 43: 2025/01/16
 51: B65D; C11D
 71: UNILEVER GLOBAL IP LIMITED
 72: ASHTON, ROSS DAVID, OWENS, KIERAN DEAN
 33: EP 31: 21173811.7 32: 2021-05-14
54: PACKAGE CONTAINING WATER-SOLUBLE CAPSULES

00: -
 A package comprising at least one layer of biodegradable material and containing a plurality of unit dose products, at least one unit dose product

comprising a detergent composition within a sealed compartment formed by a water soluble film, said film being printed on an inner surface, facing the detergent composition.



21: 2023/09871. 22: 2023/10/23. 43: 2025/01/16
51: B32B; C08J

71: UNILEVER GLOBAL IP LIMITED
72: DAS, SANDIP, KURUGANTI, THEJASWI
SESHA, GADGEEL, ARJIT AJAY

33: EP 31: 21182139.2 32: 2021-06-28

33: IN 31: 202121021873 32: 2021-05-14

54: MULTILAYER FILM

00: -

The present invention relates to a film for packaging a product, particularly to an improved multilayer film having recycled polyolefin. Among the objectives of the present invention, it is desired to provide a flexible multilayer film which incorporates higher levels of recycled high-density polyethylene resin. The present inventors have found that at least one of the abovementioned objectives is achievable by a multilayer film having a first polyethylene layer, a second polyethylene sealant layer and sandwiched therebetween a core layer having recycled HDPE.

21: 2023/09872. 22: 2023/10/23. 43: 2025/01/14
51: C11D

71: UNILEVER GLOBAL IP LIMITED
72: MURALIDHARAN, GIRISH, RAMACHANDRAN,
RAJEESH KUMAR

33: EP 31: 21177956.6 32: 2021-06-07

54: A TABLET COMPOSITION

00: -

The present invention relates to a detergent tablet, in particular, it relates to a detergent tablet for providing a liquid cleaning composition on dissolution in water. It discloses a unit dose tablet comprising at least

10% by weight surfactant; and a dissolving aid selected from hydrated monosaccharides, hydrated disaccharides, hydrated oligosaccharides and combinations thereof, wherein the ratio of the surfactant to the dissolving aid is at least 1 : 1.5 by weight. It further discloses a process for forming a liquid cleaning composition comprising the steps of providing water in a container, adding said tablet into the water, wherein the ratio of tablet to water is in the range from 1:5 to 1:100 by weight.

21: 2023/09873. 22: 2023/10/23. 43: 2025/01/14

51: B64C; B64D

71: SKYCART INC

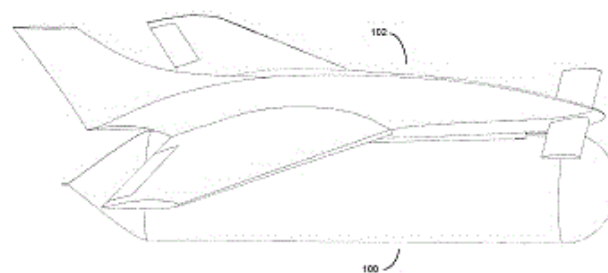
72: YUEN, LU RU (SIMON)

33: US 31: 63/166,149 32: 2021-03-25

54: DETACHABLE, SELF-BALANCING, MULTI-PAYLOAD DELIVERY POD FOR UAV

00: -

A detachable, self-balancing, pod for an unmanned aerial vehicle. The pod is configured to hold a plurality of different payloads, and to dynamically shift the location of these payloads in order to maintain an optimal center of mass (center of gravity) for the combination pod and UAV. The pod will have its own processor, as well as processor-controlled actuators to shift the payload location inside the pod to optimize balance, and to dispense the different individual payloads in different locations as directed.



21: 2023/09918. 22: 2023/10/24. 43: 2025/01/14

51: H04M; F16C; G06F

71: SAMSUNG ELECTRONICS CO., LTD.

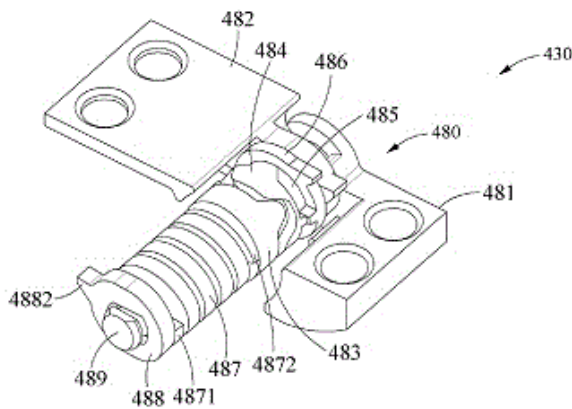
72: SHIN, WONHO, PARK, JUNGHON, PARK,
JOONGKYUNG, CHOI, HYOUNGGIL

33: KR 31: 10-2021-0077845 32: 2021-06-16

54: HINGE ASSEMBLY AND FOLDABLE ELECTRONIC DEVICE COMPRISING SAME

00: -

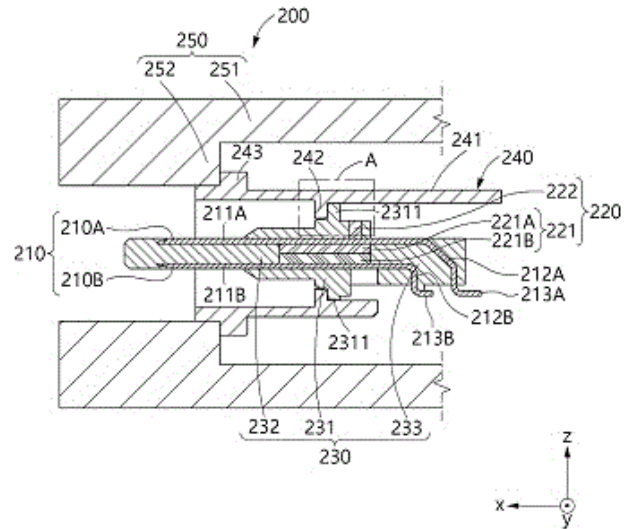
A foldable electronic device according to various embodiments comprises a display, a first housing, a second housing, and a hinge assembly, the hinge assembly including: a hinge cover connected to the first housing and the second housing; a first hinge connected to the hinge cover and supporting a first region; and a second hinge connected to the hinge cover and supporting a second region, wherein the first hinge and the second hinge each include a shaft having a folding axis, a first cam configured to perform linear motion along the folding axis, a second cam configured to contact the first cam, and a third cam configured to contact the first cam, wherein the first cam may be configured to contact only one of the second cam and the third cam.



21: 2023/09919. 22: 2023/10/24. 43: 2025/01/14
 51: H01R
 71: SAMSUNG ELECTRONICS CO., LTD.
 72: JUNG, WANEUI, MUN, HANSEOK, HAN, JAERYONG
 33: KR 31: 10-2021-0054428 32: 2021-04-27
54: RECEPTACLE CONNECTOR
 00: -

A receptacle connector (200) according to one embodiment may comprise: a shell including a cell body and a shell stopper protruding from the inner side surface of the cell body; a terminal arranged on the inside of the cell body; a core body including a core base for supporting the terminal, and a parting part protruding from the core base; and a main body including a center part, which has a main protrusion moving in a first direction from the inside of the shell so as to be hooked on the cell stopper, an exposure part, which protrudes from the center part in the first direction and covers at least a portion of the terminal, and a nonexposed part, which protrudes

from the center part in a second direction opposite to the first direction and is bonded to the parting part. Other various embodiments are possible.



21: 2023/09923. 22: 2023/10/24. 43: 2025/01/14
 51: C11D
 71: UNILEVER GLOBAL IP LIMITED
 72: CHACKO, ABRAHAM, KUMAR, GIRISH, KUMAR, SHARAVAN, PAWAR, KUNAL SHANKAR, SHAIKH, NADEEM
 33: EP 31: 21174572.4 32: 2021-05-19
54: PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE
 00: -

The present invention relates to a process for preparing of a particulate, free flowing detergent particle by a slurry making and spray drying technique. In particular it relates to the process for preparing a slurry with lower alkalinity for the production of spray dried laundry detergent particle. Accordingly, it is one object of this invention to provide a process for preparing a spray dried detergent particle where the spray dried particle has excellent powder properties and provides a wash liquor with lower alkalinity and provides good stain removal performance without being harsh on hands and fabrics.. The present inventors have found that a spray-dried detergent particle having a combination of silicate salt and/or disilicate salt of alkaline earth metal, alkali metal silicate and low levels of carbonate salt prepared by a process where the silicate and/or disilicate salt of alkaline earth metal is formed in-situ provides for excellent powder properties with extended shelf life without getting

caked and the spray-dried particles provides desired pH in wash solution to provide for good stain removal performance without being harsh on the hands or the fabrics.

21: 2023/09955. 22: 2023/10/25. 43: 2025/01/30
 51: H04W
 71: NOKIA TECHNOLOGIES OY
 72: UMEDA, Hiromasa, VASENKARI, Petri, Juhani, HENTTONEN, Tero
 33: US 31: 17/301,370 32: 2021-03-31
54: EXPLOITATION OF TRANSMITTER (TX) POWER FOR EACH BAND DUAL UP-LINK (UL) CARRIER AGGREGATION (CA)

00: -
 Various techniques are provided for a method including receiving, at a network device from a user equipment (UE), an indication of a UE capability to support a per-band maximum power for a radio band combination (BC) used by the UE, determining whether the UE supports per-band maximum power for the radio BC based on the indication of the UE capability, and in response to determining the UE supports per-band maximum power for the radio BC, determining a total UE transmission power based on a sum of a maximum power of each band in the radio BC.

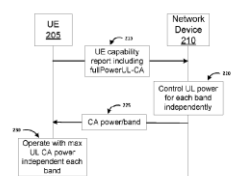


FIG. 2

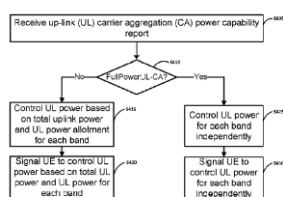
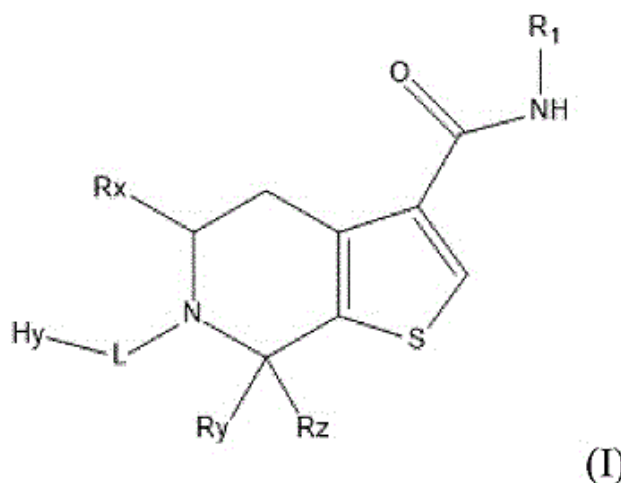


FIG. 4

21: 2023/09968. 22: 2023/10/25. 43: 2025/01/14
 51: A61P; A61K; C07D
 71: CHIESI FARMACEUTICI S.P.A.
 72: CARZANIGA, LAURA, RIZZI, ANDREA, IOTTI, NICOLÒ, RANCATI, FABIO, KARAWAJCZYK, ANNA, WOLEK, BARBARA KAROLINA, CLARK, DAVID EDWARD, MULLINS, TOBY MATTHEW GROVER, KNIGHT, KEITH CHRISTOPHER, WHITTAKER, BEN PAUL, LEVANTO, STEFANO
 33: EP 31: 21209682.0 32: 2021-11-22
 33: EP 31: 21165288.8 32: 2021-03-26
54: TETRAHYDROTHIENO PYRIDINE DERIVATIVES AS DDRS INHIBITORS
 00: -

The present invention relates to compounds of general formula (I) inhibiting Discoidin Domain Receptors (DDR inhibitors), methods of preparing such compounds, pharmaceutical compositions containing them and therapeutic use thereof. The compounds of the invention may be useful for instance in the treatment of many disorders associated with DDR mechanisms.



21: 2023/09969. 22: 2023/10/25. 43: 2025/01/14
 51: A61K; A61P
 71: ACTIVE BIOTECH AB
 72: WÄNNMAN, HANS, TÖRNGREN, MARIE, ERIKSSON, HELENA, BUHL, ANDREAS
 33: EP 31: 21166691.2 32: 2021-04-01
54: LAQUINIMOD FORMULATION FOR OCULAR USE
 00: -

A pharmaceutical formulation comprising laquinimod or a pharmaceutically acceptable salt thereof as active ingredient, a pharmaceutically acceptable viscosity agent, a pharmaceutically acceptable tonicity adjusting agent, a pharmaceutically acceptable humectant, a pharmaceutically acceptable antioxidant, and a pharmaceutically acceptable pH regulating agent. The formulation is suitable for the treatment of ocular diseases by ocular administration, preferably topical ocular administration.

21: 2023/09970. 22: 2023/10/25. 43: 2025/01/14
 51: C07C
 71: ARKEMA FRANCE
 72: FREMY, GEORGES, RAYMOND, JEAN-MICHEL, LAMANT, ERIC

33: FR 31: FR2104977 32: 2021-05-11

54: PROCESS FOR THE CO-PRODUCTION OF ALKYL MERCAPTAN AND DIALKYL DISULFIDE FROM ALCOHOL

00: -

The invention relates to a method for the co-production of alkyl mercaptan and dialkyl disulfide, comprising the following successive steps: a) reacting a C1-C4 alcohol in the presence of hydrogen sulfide (H₂S) to form a stream (M) comprising an alkyl mercaptan, water, and possibly unreacted hydrogen sulfide, b) purifying the stream (M) to obtain a stream (N) enriched in alkyl mercaptan, c) recovering a first portion of the stream (N) comprising alkyl mercaptan purified in step b), d) sulfur oxidation of the second portion of the stream (N) of alkyl mercaptan in order to form a stream (O) comprising a dialkyl disulfide, hydrogen sulfide, and possibly unreacted alkyl mercaptan, e) purifying the stream (O) to separate, on the one hand, the enriched dialkyl disulfide and on the other hand the hydrogen sulfide and the alkyl mercaptan possibly having not reacted in step d), f) recycling the hydrogen sulfide and possibly the alkyl mercaptan isolated in step e) to the stream (M) obtained in step a), g) recovering the dialkyl disulfide isolated in step e).

21: 2023/09971. 22: 2023/10/25. 43: 2025/01/14
51: C07C

71: ARKEMA FRANCE

72: FREMY, GEORGES, RAYMOND, JEAN-MICHEL, LAMANT, ERIC, SALEMBIER, HÉLORI

33: FR 31: FR2104979 32: 2021-05-11

54: METHOD FOR THE CO-PRODUCTION OF METHYL MERCAPTAN AND DIMETHYL DISULFIDE FROM CARBON OXIDES

00: -

The invention relates to a process for the co-production of methyl mercaptan and dimethyl disulfide, comprising the following successive steps: a) reacting at least one carbon oxide in the presence of hydrogen sulfide (H₂S) and hydrogen in order to produce a stream (M) comprising methyl mercaptan, water, and possibly unreacted hydrogen sulfide, b) purifying the stream (M) to obtain a stream (N) enriched in methyl mercaptan and a stream containing the noncondensibles (MIncond), c) optionally recycling the stream of noncondensibles(MIncond) from step b) in step a),

d) recovering a first portion of the stream (N) comprising methyl mercaptan purified in step b), e) sulfur oxidation of the second portion of the stream (N) of methyl mercaptan in order to produce a stream (O) including dimethyl disulfide, hydrogen sulfide, and possibly unreacted methyl mercaptan, f) purifying the stream (O) in order to separate, on the one hand, the enriched dimethyldisulfide and, on the other hand, the hydrogen sulfide and possibly the methyl mercaptan that was not reacted in step e), g) recycling the hydrogen sulfide and possibly the methyl mercaptan which were isolated in step f) to the stream (M) resulting from step a), h) recovering the dimethyldisulfide isolated in step f).

21: 2023/10014. 22: 2023/10/26. 43: 2025/01/28
51: A61K; C07K

71: AJ SCIENCES (YIXING) CO., LTD.

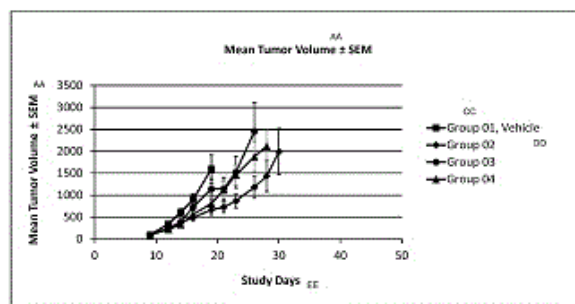
72: SONG, YUNTAO, LI, HUI

33: US 31: 63/167,419 32: 2021-03-29

54: PROTEIN-MACROMOLECULE CONJUGATES AND METHODS OF USE THEREOF

00: -

The present disclosure provides protein-macromolecule conjugates, releasable linkers, and macromolecules, as defined herein. The disclosed conjugates provide unique properties that are based at least upon the properties of linker, number of linker-Macromolecule moieties and the preparation process for generating the protein-macromolecule. Also provided herein are methods of synthesis and use of conjugates in treating diseases and disorders.

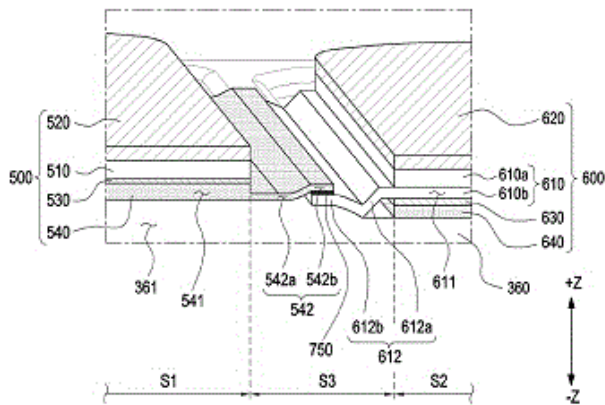
AA: Volume tumoral moyen ± SEM
CC: Groupe
DD: Véhicule
EE: Jeune cellule21: 2023/10015. 22: 2023/10/26. 43: 2025/01/14
51: H05K; H04M; H01Q; H02J

71: SAMSUNG ELECTRONICS CO., LTD.

72: KIM, YONGYOUN, OH, CHANHEE, JUNG, DONGKEE

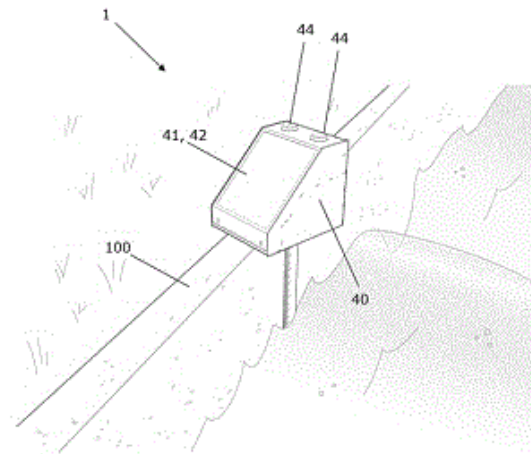
33: KR 31: 10-2021-0044838 32: 2021-04-06
54: ELECTRONIC DEVICE INCLUDING HEAT DISSIPATION STRUCTURE

00: -
 An electronic device according to various embodiments of the present disclosure may include: a housing, a non-conductive support member disposed inside the housing, the support member including a first area, a second area spaced apart from the first area, and a third area connecting the first area and the second area; a conductive pattern part disposed over the first area of the support member; a heat dissipation member of which at least a part is disposed to overlap the conductive pattern part; and an antenna including a circuit board, a conductive portion, and a ground portion. The conductive portion of the antenna may be disposed over the second area, the heat dissipation member may be formed to extend from the first area to the third area, and the ground portion of the antenna may be formed to extend from the second area to the third area so as to be disposed in contact with at least a part of the heat dissipation member.



21: 2023/10018. 22: 2023/10/26. 43: 2025/01/14
 51: G01F; G01P; G12B; E02B
 71: CAPTA HYDRO SPA
 72: DE LA JARA HARTWIG, EMILIO ALFONSO, ECHEVERRÍA LAVÍN, RODRIGO
54: VANDAL-PROOF INSTALLATION SYSTEM FOR THE MONITORING OF PHYSICAL VARIABLES IN WATER, COMPRISING: A FIRST MEMBER; A SECOND MEMBER; A THIRD MEMBER AND A FOURTH MEMBER; WHERE THE FIRST MEMBER COMPRISES A PLURALITY OF COMPARTMENTS FOR HOUSING A PLURALITY OF DEVICES. ASSEMBLY METHOD
 00: -

A vandal-proof installation system for the monitoring of physical variables in the water in open channels, comprising: a first member comprising a base with a plurality of perforations for the insertion therein of a plurality of anchor means to secure the first member to an installation surface of the system; a second member that is fixed on the first member of the system by means of a plurality of anchor means; a third member, disposed externally, which is secured to the first and second members from within the interior of the system by anchor means; and a fourth member disposed pivotingly at the lower portion of the third member; where the first member comprises a plurality of compartments for housing a plurality of devices for the operation of the system and for the monitoring of physical variables to be protected by the system; and where the system comprises a power generation device and a plurality of safety devices, such that the fourth member remains secured to the third member of the system. A method for the assembly of a vandal-proof installation system for the monitoring of physical variables in the water in open channels.



21: 2023/10019. 22: 2023/10/26. 43: 2025/01/14
 51: B23B
 71: TAEGUTEC LTD.
 72: CHOI, CHANG HEE, JEONG, CHANG WON
 33: US 31: 17/327,149 32: 2021-05-21
54: CUTTING INSERT AND CUTTING TOOL ASSEMBLY INCLUDING SAME
 00: -
 Embodiments of a cutting insert are provided. The cutting insert includes an upper surface, a lower surface, a plurality of side surfaces extending

between the upper surface and the lower surface, an insert hole extending through the upper surface and the lower surface, and a corner portion provided with a cutting edge. At least one of the upper surface and the lower surface has a plurality of recesses extending between the insert hole and the corner portion. The plurality of recesses includes a first recess into which one portion of the mounting portion is inserted when the cutting insert is supported by the mounting portion, and a second recess into which another portion of the mounting portion is inserted when the cutting insert is supported by the mounting portion. The second recess has a side wall spaced apart from another portion of the mounting portion.

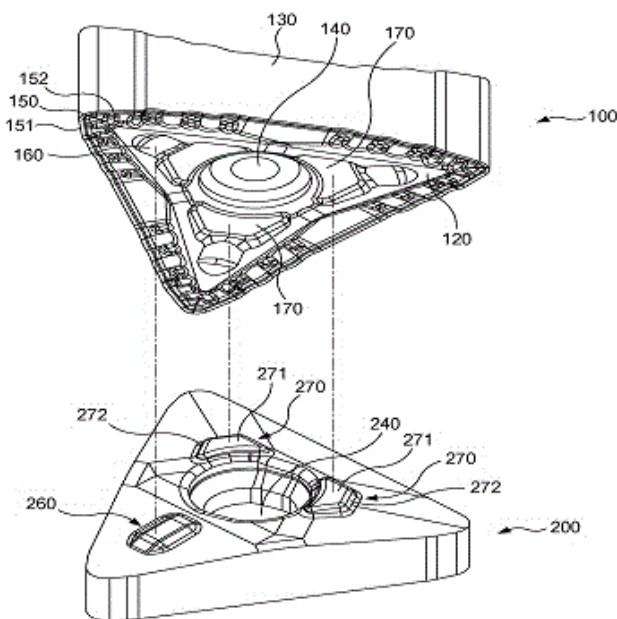


Fig. 1

a perovskite-type structure dispersed within a nickel-based metal or metal oxide binder. The present invention also concerns a method for the production of such an electrode.

21: 2023/10022. 22: 2023/10/26. 43: 2025/01/14
51: A61K; A61P
71: PRODIGY BIOTECH
72: IYER, SUBRAMANIAN V, PATEL, SUNNY
33: US 31: 63/175,603 32: 2021-04-16

54: HYPERIMMUNIZED EGG PRODUCT FOR TREATING OR PREVENTING ALCOHOLIC LIVER DISEASE AND GRAFT-VERSUS-HOST DISEASE

00: -
In one aspect, the present disclosure is directed to a method for preventing or treating alcoholic liver disease or graft-versus-host disease in a subject in need thereof, comprising administering to the subject a therapeutically effective amount of a hyperimmunized egg product obtained from an egg-producing animal, thereby preventing or treating the alcoholic liver disease or the graft-versus-host disease in the subject, wherein the hyperimmunized egg product comprises a therapeutically effective amount of one or more antibodies to an antigen selected from the group consisting of *Enterococcus faecalis*, *Enterococcus faecalis* cytolytic toxin, and *Enterococcus faecium*. The present disclosure is also directed to hyperimmunized eggs and egg products produced by an animal that has been hyperimmunized with an antigen selected from the group consisting of *Enterococcus faecalis*, isolated *Enterococcus faecalis* cytolytic toxin, and *Enterococcus faecium*. Methods of preparing the hyperimmunized eggs and egg products are also disclosed.

21: 2023/10021. 22: 2023/10/26. 43: 2025/01/14
51: C25B
71: INDUSTRIE DE NORA S.P.A.
72: MATIENZO, DJ DONN, DI BARI, CHIARA, INSTULI, EMANUELE, TESTOLIN, ANNA
33: IT 31: 102021000011936 32: 2021-05-10
54: ELECTRODE FOR GAS EVOLUTION IN ELECTROLYTIC PROCESSES
00: -

The present invention concerns an electrode for gas evolution in electrolytic processes comprising a nickel-based metal substrate and a coating formed on said substrate, wherein said coating comprises pre-formed particles of a catalytic material exhibiting

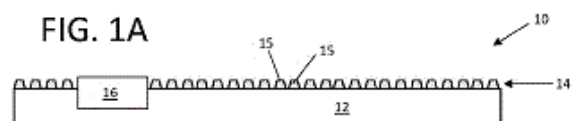
21: 2023/10040. 22: 2023/10/27. 43: 2025/01/14
51: B42D; G06K
71: COMPOSECURE, LLC

72: LOWE, ADAM, ESAU, JOHN
 33: US 31: 63/032,911 32: 2020-06-01

54: TRANSACTION CARDS WITH DISCONTINUOUS METAL STRATA

00: -

A transaction card having a discontinuous metal stratum (14) with a desired degree of electrical eddy current disruption disposed on a surface of a first layer (12), such as a glass or other transparent layer. A transaction module (16) disposed in the first layer is electrically isolated from the discontinuous metal stratum. The discontinuous metal stratum may include a plurality of isolated metal features (15) that form a halftone pattern, such as a pattern that is visibly opaque to the naked eye.



21: 2023/10069. 22: 2023/10/27. 43: 2025/01/14
 51: A01K

71: NANJING MEDICAL UNIVERSITY
 72: HU, ZHIBIN, SHEN, HONGBING, WANG,
 CHENG, GU, YAYUN, DAI, JUNCHENG
 33: CN 31: 202211323532.X 32: 2022-10-27

54: A METHOD FOR CONSTRUCTING A MOUSE MODEL WITH SHORT TELOMERE

00: -

The present disclosure relates to a method for constructing a mouse model with short telomere. Specifically, the present disclosure obtains fertilized eggs by fertilizing the sperms and eggs of mice in vitro, and the fertilized eggs are cultured to the blastocyst stage in vitro and then transferred into the surrogate female mouse for development, thereby producing mice with short telomere. The method of the present disclosure does not require gene editing, has a short modeling cycle, and the effect is reliable and stable. By changing only the environment during embryo transfer, the telomere elongation process in the embryo is interfered, so as to successfully construct a progeny model with short telomere. There is no significant effect on the reproductive rate of female mice. Therefore, the present disclosure can provide a method for constructing a mouse model with short telomere for exploring the mechanism of telomere shortening and studying telomere-related phenotypes such as aging.

21: 2023/10072. 22: 2023/10/27. 43: 2025/01/16
 51: E21F

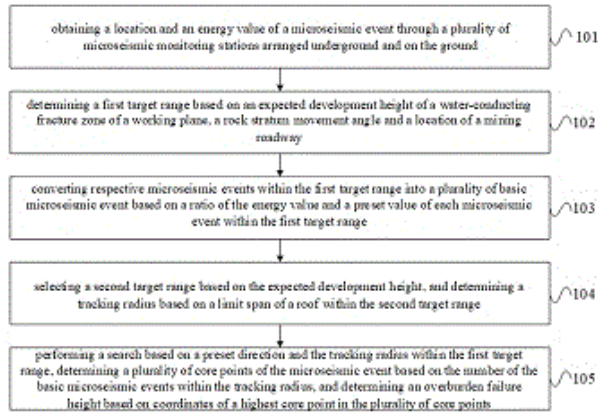
71: CCTEG COAL MINING RESEARCH INSTITUTE, TIANDI SCIENCE & TECHNOLOGY CO., LTD.

72: YIN, XIWEN, ZHANG, FENGDA, ZHANG, YUJUN, LI, LEI, SONG, YEJIE, LI, YAN
 33: CN 31: 202210583375X 32: 2022-05-25

54: METHOD AND DEVICE FOR DETERMINING OVERBURDEN FAILURE HEIGHT, AND ELECTRONIC EQUIPMENT AND STORAGE MEDIUM

00: -

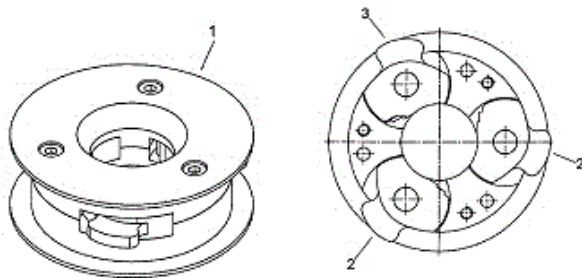
The present application provides a method and a device for determining overburden failure height, and an electronic equipment and a storage medium. The method includes: obtaining a location and an energy value of a microseismic event through a plurality of microseismic monitoring stations arranged underground and on the ground; determining a first target range based on an expected development height of a water-conducting fracture zone of a working plane, a rock stratum movement angle and a location of a mining roadway; converting respective microseismic events within the first target range into a plurality of basic microseismic event based on a ratio of the energy value and a preset value of each microseismic event within the first target range; selecting a second target range based on the expected development height, and determining a tracking radius based on a limit span of a roof within the second target range; and performing a search based on a preset direction and the tracking radius within the first target range, determining a plurality of core points of the microseismic event based on the number of the basic microseismic events within the tracking radius, and determining an overburden failure height based on coordinates of a highest core point in the plurality of core points.



21: 2023/10073. 22: 2023/10/27. 43: 2025/01/14
 51: B23K; B23B; B25B
 71: BRÄUER SYSTEMTECHNIK GMBH
 72: NITZ, JENS, KÜTTNER, ROBIN, STOPP, JENS
 33: DE 31: 10 2021 112 548.0 32: 2021-05-14

54: SYSTEM FOR DRAWING OFF THE ELECTRODE CAPS FROM ELECTRODE ADAPTERS

00: -
 The invention relates to a system for drawing off electrode caps, consisting of at least one drawing off unit (1), which is rotatably mounted about a tool axis and comprises clamping means (2 and 3) for fixing the electrode caps to be drawn off, comprising a combination of straight-toothed and helically toothed clamping means (2 and 3).

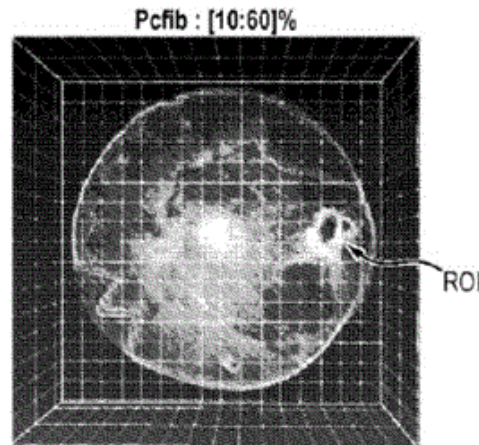


21: 2023/10075. 22: 2023/10/27. 43: 2025/01/14
 51: G06T
 71: MVG INDUSTRIES
 72: FASOULA, AGATHI, DUCHESNE, LUC
 33: FR 31: FR2104690 32: 2021-05-04

54: METHOD FOR MORPHOLOGICAL PROCESSING OF MICROWAVE RADAR IMAGES IN THE MEDICAL FIELD USING DIFFERENT HYPOTHESES ON THE MEDIUM THROUGH WHICH THE MICROWAVE SIGNALS PASS

00: -

The invention relates to a method for processing medical images of human tissue of an area of a patient's body and in particular of the breast by means of a medical imaging device (1) comprising a microwave probe array consisting of $K > 1$ probes spaced apart from one another, the array comprising $P > 1$ different configurations defining transmitting probes and receiving probes for one or more position(s) around the area, in which the transmitting probes are configured to transmit microwave signals so as to illuminate an area of the body and the receiving probes are configured to receive microwave signals after scattering and reflection in the area, the probes being capable, in a complementary manner, of being configured to transmit and receive simultaneously.



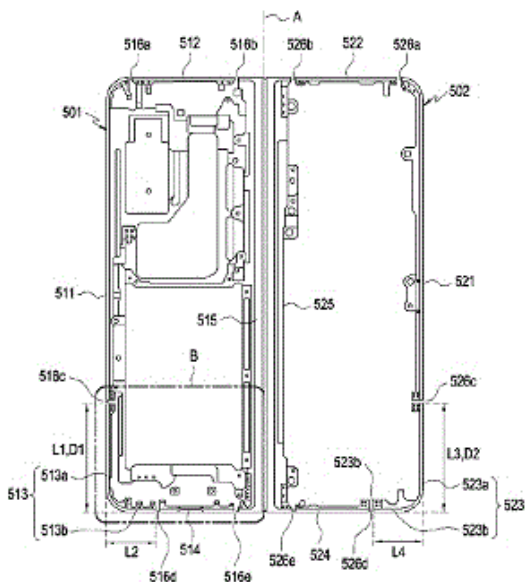
21: 2023/10076. 22: 2023/10/27. 43: 2025/01/14
 51: A61K; A61P
 71: ALX ONCOLOGY INC.
 72: WAN, HONG, SIM, BANG JANET, RANDOLPH, SOPHIA, PONS, JAUME, KUO, TRACY CHIA-CHIEN

33: US 31: 63/188,388 32: 2021-05-13
 33: US 31: 63/193,581 32: 2021-05-26
54: COMBINATION THERAPIES FOR TREATING CANCER

00: -
 Provided are methods of treating cancer that comprise administering a polypeptide (e.g. a fusion polypeptide) that comprises a SIRPα D1 domain variant and an Fc domain variant in combination with at least one chemotherapy agent and/or at least one therapeutic antibody. Also provided are related kits.

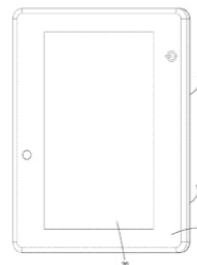
21: 2023/10097. 22: 2023/10/30. 43: 2025/01/14
 51: H04M
 71: SAMSUNG ELECTRONICS CO., LTD.
 72: YOON, SHINHO, OH, DONGJUN, LEE, JONGHYUCK, HWANG, SOONHO
 33: KR 31: 10-2019-0019551 32: 2019-02-19
 33: KR 31: 10-2019-0078718 32: 2019-07-01
54: ELECTRONIC DEVICE INCLUDING ANTENNA DEVICE

00: -
 An electronic device is provided. The electronic device includes a first housing structure including a first side surface member, a second housing structure including a second side surface member, a hinge structure configured to rotatably connect the first housing structure and the second housing structure and configured to provide a folding axis on which the first housing structure and the second housing structure rotate, and at least one printed circuit board, wherein the first side surface member or the second side surface member includes a first side surface portion, a second side surface portion, a third side surface portion, a fourth side surface portion, a fifth side surface portion, a first slit, a second slit, a third slit, and a fourth slit, and wherein at least part of at least one of the second side surface portion, the third side surface portion, and the fourth side surface portion is formed of a radiation conductor and is electrically connected to the at least one printed circuit board.



21: 2023/10099. 22: 2023/10/30. 43: 2025/02/12

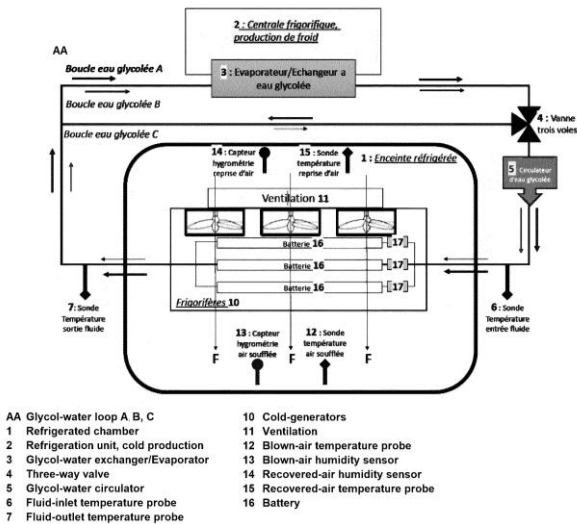
51: A62C; G08B; G08C; H04Q
 71: REACTON FIRE SUPPRESSION LTD
 72: KOUTSOS, Theodoros
 33: GB 31: 2104447.4 32: 2021-03-29
54: REMOTE MONITORING MODULE
 00: -
 Aspect and embodiments of the present invention relate to a remote monitoring module for monitoring of parameters of vehicles, plant and other facilities. An aspect of the invention provides control circuitry configured to activate one or more safety protocols, an activation button that is wirelessly connected to the control circuitry, wherein actuation of the activation button causes:)i transmission of an activation signal from the activation button to the control circuitry, and i) the control circuitry to activate at least one of the one or more safety protocols upon receiving the activation signal. Another aspect of the invention provides junction box for a fire suppression system, the junction box comprising an enclosure having at least an input port for a fire detection system, an input for receiving a request to activate a fire suppression system and an exhaust, wherein an inert gas is delivered to the junction box via the input port for the fire detection system and a flow path between the input port for the fire detection system and the exhaust is provided, wherein the flow path is interrupted by a valve that is normally closed, and wherein upon receipt of a request to activate the fire suppression system, the valve is opened to permit the inert gas to pas through the valve and exit the enclosure by way of the exhaust.



21: 2023/10115. 22: 2023/10/30. 43: 2025/02/24
 51: F25B; F25D
 71: DPKL
 72: DUPRAC, Benoit, DESPIERRES, Christophe, VIDOT, Kévin
 33: FR 31: 2104763 32: 2021-05-05
54: METHOD FOR CONTROLLING THE TEMPERATURE AND HUMIDITY OF THE AIR CONTAINED IN A REFRIGERATED CHAMBER

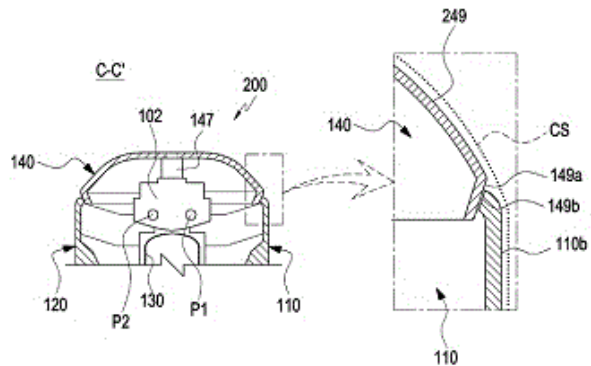
AND REFRIGERATED CHAMBER SUITABLE FOR SUCH A METHOD

00: -
 The invention relates to a method for controlling the temperature and the degree of humidity of the air contained in a refrigerated chamber (1) that comprises: a cooling unit (10) comprising a plurality of cooling batteries (16); at least one temperature sensor (6) sensing the temperature of the refrigerant on entry and at least one temperature sensor (7) sensing the temperature of the refrigerant on exit from the cooling unit (10); at least one adjustable ventilation fan (11) with reversible direction of ventilation for producing a variable flow rate of air through the cooling unit (10); at least one temperature sensor (15) upstream of the ventilation fan (11); at least one temperature sensor (12) downstream of the cooling unit (10); at least one hygrometric sensor (14) upstream of the ventilation fan (11); at least one hygrometric sensor (13) downstream of the cooling unit (10); said control being exercised on the basis of setpoint values initially given for the temperature and the degree of humidity in the chamber.



21: 2023/10117. 22: 2023/10/30. 43: 2025/01/14
 51: H04M; G06F
 71: SAMSUNG ELECTRONICS CO., LTD.
 72: SONG, JUNYONG, KIM, BYOUNGJIN, WHANG, SEJUNG, LEE, NAKYOUNG, SOLIER, VALENTIN, BEHAR, YVES, LI, QIN
 33: KR 31: 10-2021-0056837 32: 2021-04-30
54: ELECTRONIC DEVICE COMPRISING HINGE COVER

00: -
 According to various embodiments disclosed in the present document, an electronic device may comprise: a first housing; a second housing which is pivotally coupled to the first housing and is pivoted between a first position where the second housing is at least partially opposite to the first housing and a second position where the second housing is unfolded by a predetermined angle from the first position; a hinge module which provides at least one folding axis and by which the first housing and the second housing are coupled pivotally about the folding axis; and a hinge cover which is disposed between the first housing and the second housing and is coupled to cover at least a part of the hinge module, wherein at least a part of the hinge cover is configured to be located closer to the hinge module in the second position than in the first position. Various other embodiments are also possible.

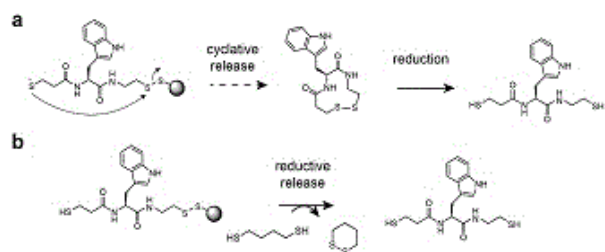


21: 2023/10119. 22: 2023/10/30. 43: 2025/01/14
 51: C07K; C40B
 71: ECOLE POLYTECHNIQUE FEDERALE DE LAUSANNE (EPFL)
 72: HEINIS, CHRISTIAN, HABESHIAN, SEVAN, MOTHUKURI, GANESH KUMAR, SCHÜTTEL, MISCHA, MERZ, MANUEL, SANGOUARD, GONTRAN, BOGNÁR, ZSOLT, NIELSEN, ALEXANDER LUND
 33: EP 31: 21174036.0 32: 2021-05-17

54: METHOD FOR PREPARING A LIBRARY OF PEPTIDES OR A PEPTIDE

00: -
 The present invention relates to a method for preparing a library of peptides or an isolated peptide comprising (a) releasing one or more linear dithiol peptides carrying a sulfhydryl group in the N-terminal region of the one or more peptides and being immobilized via a disulfide bridge in the C-terminal

region of the one or more peptides on a solid phase from the solid phase by (i) an agent reducing the disulfide bridge, thereby releasing the one or more linear dithiol peptides from the solid phase, wherein the agent is volatile and is removable by evaporation, or (ii) a base that deprotonates the sulfhydryl group in the N-terminal region of the one or more linear dithiol peptides, thereby inducing an intramolecular disulfide exchange thereby releasing the one or more linear dithiol peptides from the solid phase in the form of one or more cyclic peptides.



21: 2023/10120. 22: 2023/10/30. 43: 2025/01/14

51: G07C; E05B

71: SWEDLOCK AB

72: HÖRBERG, JOHAN, LINDVALL, MARTIN

33: SE 31: 2150515-1 32: 2021-04-23

54: DEVICE AND METHOD FOR UNLOCKING AN ELECTROMECHANICAL LOCK

00: -

A lock operating device (100) configured to be retrofitted on an electromechanical lock (200) having a key-receiving portion (210) is provided. The lock operating device (100) comprises a maneuver knob (110) and a key blade (120) being operably connected to the maneuver knob (110) and being insertable in said key-receiving portion (210) of the electromechanical lock (200), and circuitry (130) which includes wireless communication means (132) arranged to wirelessly receive authentication information, and which circuitry (130) is arranged to communicate the received authentication information to the electromechanical lock (200) via the inserted key blade (120). The lock operating device (100) thereby allows conversion of the electromechanical lock (200) from a first operating mode, in which the electromechanical lock (200) can be operated by a programmable physical key receivable in said key-receiving portion (210), to a second operating mode in which the electromechanical lock (200) is arranged to receive said authentication information

wirelessly and be operated by the maneuver knob (110).

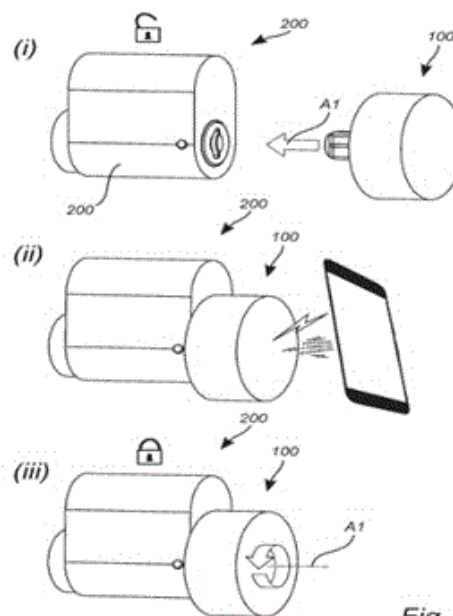


Fig. 5

21: 2023/10123. 22: 2023/10/30. 43: 2025/01/14

51: H02P

71: GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.

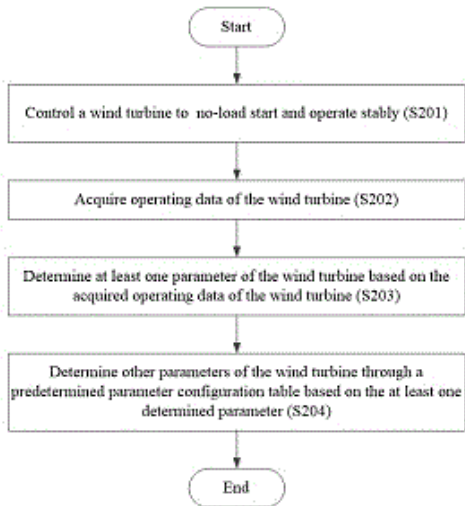
72: WANG, JINPENG, GUO, RUI, LV, LIANGNIAN

33: CN 31: 202110349970.2 32: 2021-03-31

54: PARAMETER IDENTIFICATION METHOD AND PARAMETER IDENTIFICATION DEVICE FOR WIND TURBINE

00: -

The present disclosure provides a parameter identification method and parameter identification device for a wind turbine. The parameter identification method comprises: controlling a wind turbine to perform no-load startup and controlling the wind turbine to operate stably; acquiring operation data of the wind turbine; determining at least one parameter of the wind turbine on the basis of the acquired operation data of the wind turbine; and on the basis of the at least one determined parameter, determining other parameters of the wind turbine by means of a predetermined parameter configuration table.

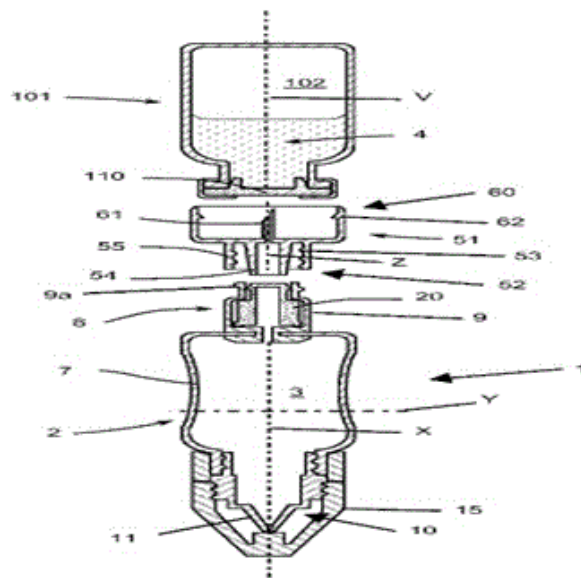


21: 2023/10180. 22: 2023/10/31. 43: 2025/01/14
 51: C10C; C04B; C25C; H01M; H05B
 71: RAIN CARBON BVBA, RAIN CARBON GERMANY GMBH
 72: CLAES, JORIS, KUHN, CHRISTOPHER, VAN DE VYVERE, VINCENT, DENOO, BRAM, SPAHR, MICHAEL
 33: EP 31: 21166831.4 32: 2021-04-02
 33: RU 31: 2021109068 32: 2021-04-02
54: IMPROVED PITCH PRODUCT, PROCESS FOR ITS PREPARATION AND USE

00: -
 The present invention is directed to a pitch product comprising petroleum-derived distillation residue and a coal tar-derived distillation residue, said pitch product characterized by a concentration of at least 84% asphaltenes (SARA). Further, the present invention is directed to a pitch binder comprising said pitch product in particular for use in manufacturing of graphite electrodes for electric arc furnaces, and carbon anodes and Soederberg paste for aluminum production. The present invention is further directed also to a graphite electrode comprising said pitch binder, as well as to a carbon anode comprising said pitch binder. The present invention provides also a process for producing a pitch product comprising a petroleum-derived distillation residue and a coal tar-derived distillation residue, said process comprising a petroleum vacuum distillation process step for obtaining said petroleum-derived distillation residue, and a process for manufacturing a graphite electrode or a carbon anode comprising said process for producing a pitch product.

21: 2023/10206. 22: 2023/11/01. 43: 2025/01/30
 51: A61J; A61F
 71: DOMPÉ FARMACEUTICI S.P.A.
 72: DIONIGI (DECEASED), GIUSEPPE
 33: IT 31: 102021000011387 32: 2021-05-07
54: DEFORMABLE CONTAINER, KIT AND PACKAGING

00: -
 A deformable container for dispensing a medical substance comprising a body defining an internal volume configured to receive a fluid substance, said body comprising a filling access configured to receive the fluid substance, a dispensing outlet configured to dispense the fluid substance, a valve arranged at the filling access movable between an open configuration and a closed configuration. The body comprises an elastically deformable wall delimiting the internal volume. The disclosure further relates to a connecting accessory comprising a first coupling portion, configured to fluidly connect to the filling access of the deformable container, and a second coupling portion configured to fluidly connect to an internal compartment of a vial. The container and the connecting accessory are configurable in a coupled configuration wherein the connecting accessory is coupled to the filling access of the container, and the valve of the container is in the open configuration.



21: 2023/10247. 22: 2023/11/02. 43: 2025/01/30
 51: C07K
 71: LEO PHARMA A/S

72: URSØ, BIRGITTE, SAJID, WASEEM, LOVATO, PAOLA, BAGGER, HEIDI WESTH, ERKEL, CHRISTOPH, NUSSBAUMER, PETRA, SCHUSTER, SIMON

33: EP 31: 21192805.6 32: 2021-08-24

33: EP 31: 21175216.7 32: 2021-05-21

54: ANTI IL-1 RECEPTOR ACCESSORY PROTEIN ANTIBODIES

00: -

The present disclosure provides novel antibodies against IL-1RAcP.

21: 2023/10292. 22: 2023/11/03. 43: 2025/01/30

51: A61K; A61P; C07K; C12N; C12P

71: ASTELLAS PHARMA INC., NATIONAL CANCER CENTER

72: TENDA, YOSHIYUKI, YURI, MASATOSHI, YAGI, SHIGENORI, SATAKE, YOSHIKI, HIRAYAMA, KAZUNORI, SHIRAI, HIROKI, SASAKI, HIROKI, CHIWAKI, FUMIKO, KOMATSU, MASAYUKI

33: JP 31: 2021-072429 32: 2021-04-22

54: ANTI-CLDN4/ANTI-CD137 BISPECIFIC ANTIBODY

00: -

The present invention addresses the problem of providing an anti-CLDN4/anti-CD137 bispecific antibody that can be used in treating cancer. This anti-CLDN4/anti-CD137 bispecific antibody, which is manufactured using an anti-CLDN4 antibody that binds to CLDN4 and an anti-CD137 antibody that binds to CD137, has an agonist action against CD137, promotes interferon- γ production in T-cells, and demonstrates cytotoxic activity against cancer cells expressing CLDN4 on the cell surface. Furthermore, this anti-CLDN4/anti-CD137 bispecific antibody was able to be safely administered to monkeys. Accordingly, this anti-CLDN4/anti-CD137 bispecific antibody can be used to treat cancer in humans.

21: 2023/10296. 22: 2023/11/03. 43: 2025/01/30

51: C08J; A21D; C08K; C08L; C09D

71: SOREMARTEC S.A.

72: ROMANO, IGOR, JANECEK, EMMA-ROSE

33: LU 31: 500140 32: 2021-05-07

54: PACKAGING MATERIAL HAVING ANTI-MICROBIAL PROPERTIES

00: -

A packaging having anti-microbial properties, comprising a substrate and a coating, wherein said

coating comprises: - a first polymeric component selected from the group consisting of polyacrylic resins, polyvinyl butyral polyurethanes, polyesters, polyvinyl alcohols, cellulosic polymers and mixtures thereof, - a low adhesion, slip or release agent selected from the group consisting of poly siloxanes, carnauba wax, lecithin, fatty acids, fatty acid amides, fatty acid esters, magnesium stearate, vegetable oils, and mixtures thereof - an anti-microbial agent, and optionally one or more functional agents selected from the group consisting of: - a defoaming agent - a coalescing agent - a wetting agent - a cross-linking agent and mixtures thereof, wherein said coating comprises: - from 50 to 99.49% by weight of the first polymeric component; - from 0.5 to 35% by weight of the low adhesion, slip or release agent, and - from 0.01 to 15% by weight of the anti-microbial agent, - from 0 to 10% by weight of functional agents - the percentage by weight being referred to 100 parts by weight of the dry coating.

21: 2023/10327. 22: 2023/11/06. 43: 2025/01/30

51: D21H

71: MONDI AG

72: MÖHLE, MARVIN

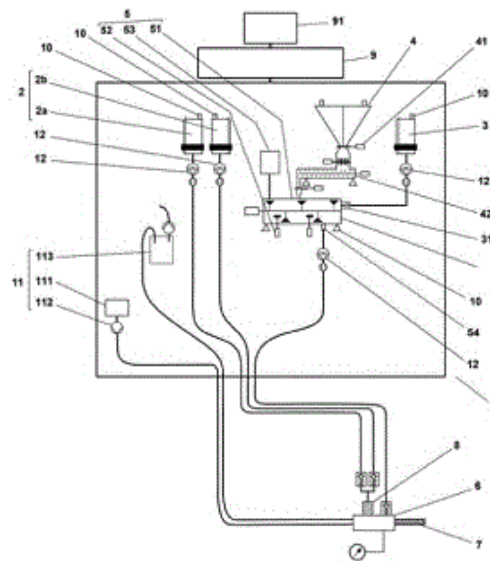
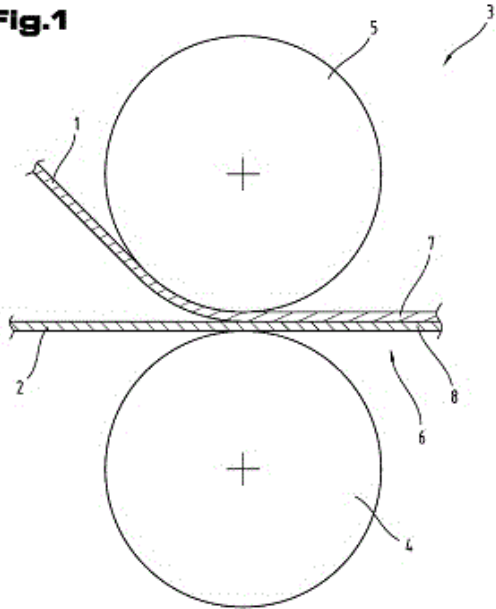
33: AT 31: A 50295/2021 32: 2021-04-21

54: PRINTABLE, MULTI-LAYERED PAPER FOR PACKAGING AND PROCESS FOR PRODUCTION THEREOF

00: -

The invention relates to a process for producing a multi-layered paper for packaging which is printable/intended for printing and to a multi-layered paper for packaging which is printable/intended for printing. The process comprises providing or producing a cellulose fiber-comprising bleached first pulp and providing or producing a cellulose fiber-comprising second pulp. Here, the cellulose fiber-comprising second pulp provided or produced is a mixture consisting of 40% by weight to 80% by weight of unbleached pulp material and 20% by weight to 60% by weight of bleached pulp material, based on 100% by weight of total dry matter of the second pulp.

Fig.1

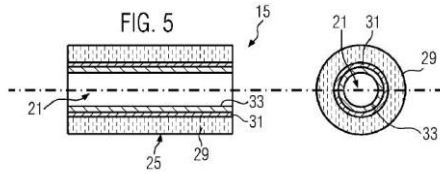


21: 2023/10328. 22: 2023/11/06. 43: 2025/01/30
 51: C04B; E21D; C08G; C08L; B01F; B29B
 71: WEBER MINING & TUNNELLING
 72: WEBER, FRANK, FERSTLER, FABRICE
 33: FR 31: FR2105991 32: 2021-06-07
54: ASSEMBLY FOR PREPARING AN INJECTABLE COMPOSITION

00: -
 The present invention relates to an assembly (1) for preparing an injectable sealing composition for sealing an anchor bolt in a dedicated recess of a rock structure, characterised in that the assembly comprises: - at least one storage means (2) for storing at least one first component, referred to as the resin-based silicate component, - a storage means (3) for storing a second component, referred to as the diphenylmethane diisocyanate-based MDI component, - a storage means (4) for storing an organic or mineral filler, - a device for generating a first mixture (5) configured to produce a mixture combining at least an amount of the MDI component with at least an amount of filler, - a device for generating a second mixture (6) configured to produce a mixture combining at least an amount of the first mixture with at least an amount of the silicate component.

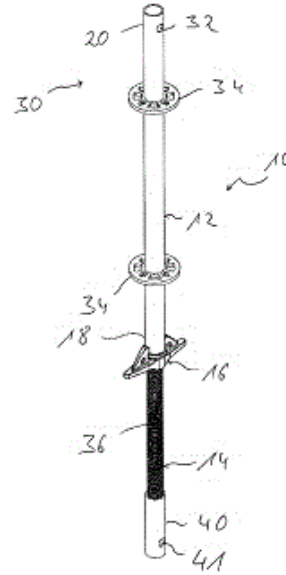
21: 2023/10356. 22: 2023/11/07. 43: 2025/02/11
 51: A24F
 71: PHILIP MORRIS PRODUCTS S.A.
 72: BESSO, Clement, EMMETT, Robert, HUANG, Houxue
 33: EP 31: 21167592.1 32: 2021-04-09
54: HEAT DISTRIBUTION IN AEROSOL-GENERATING DEVICE

00: -
 An aerosol-generating device (3) comprises an axially extending heating space (21). The heating space (21) is configured to at least partially receive an aerosol-generating article (5). The aerosol-generating device (3) comprises a heat receiving surface (25) provided outside of the heating space (21). The aerosol-generating device (3) comprises a heat storage body (31) and an inner heat conduction body (33). The heat storage body (31) is provided between the heat receiving surface (25) and the heating space (21). The inner heat conduction body (33) is provided between the heat storage body (31) and the heating space (21). A material of the heat storage body (31) has a higher specific heat capacity than a material of the inner heat conduction body (33). The material of the inner heat conduction body (33) has a higher thermal conductivity than the material of the heat storage body (31).



21: 2023/10413. 22: 2023/11/08. 43: 2025/01/30
 51: E04G
 71: WILHELM LAYHER VERWALTUNGS-GMBH
 72: BEHRBOHM, WOLF C
 33: DE 31: 10 2021 112 760.2 32: 2021-05-18
54: SPINDLE STRUT

00: -
 A spindle strut comprises: a support rod element (12) which is elongate in the direction of a longitudinal axis (L) and which has a first axial end portion (18) and a second axial end portion (20); a spindle nut element (16) which can be rotated about the longitudinal axis (L) with respect to the support rod element (12), wherein the spindle nut element (16) is held against axial movement with respect to the support rod element (12) in both axial directions on the first axial end portion (18) of the support rod element (12) such that a rotation of the spindle nut element (16) about the longitudinal axis (L) substantially does not lead to an axial movement of the spindle nut element (16) with respect to the support rod element (12); and a spindle rod element (14) which is elongate in the direction of the longitudinal axis (L), wherein the spindle rod element (14) is in threaded engagement with the spindle nut element (16) such that a rotation of the spindle nut element (16) about the longitudinal axis (L) leads to an axial movement of the spindle rod element (14) with respect to the support rod element (12).



21: 2023/10414. 22: 2023/11/08. 43: 2025/01/30
 51: E04G; E04C
 71: WILHELM LAYHER VERWALTUNGS-GMBH
 72: BEHRBOHM, WOLF C
 33: DE 31: 10 2021 112 759.9 32: 2021-05-18
54: FRAMEWORK SUPPORT

00: -
 A framework support (10), in particular for a framework, a shuttering structure or the like, comprises two U-shaped profile supports (14, 16) which are elongate in a longitudinal direction of the framework support and each have two profile branches (18, 20, 22, 24) and a profile web (26, 28) connecting the two profile branches (18, 20, 22, 24) to each other, wherein the two profile supports (14, 16), with at least one spacer element (50) disposed between them, and with their profile webs (26, 28) facing each other, are releasably connected to each other by a plurality of connecting members (54).

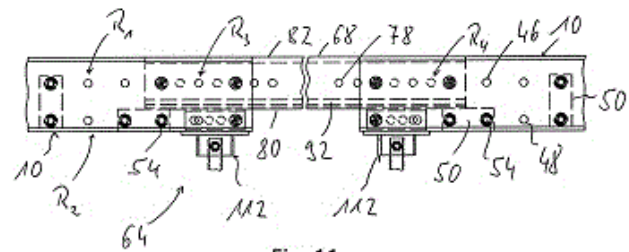


Fig. 11

21: 2023/10416. 22: 2023/11/08. 43: 2025/01/30
 51: C11D
 71: UNILEVER GLOBAL IP LIMITED

72: KUNJUPILLAI, BALU, SANKAR, RACHANA

33: IN 31: 202121023323 32: 2021-05-25

33: EP 31: 21184149.9 32: 2021-07-07

54: COMPOSITION

00: -

Concentrated dishwash detergent composition comprising less than 5% wt. water, anionic surfactant, a solvent, less than 5% wt. non-ionic surfactant and wherein the solvent is selected from dimethyl isosorbide, DMF, 1-butanol, butyl cellosolve, 1-pentanol, N-methyl-2-pyrrolidone, 2-ethyl-1-hexanol, 2-butanol, 3-methyl-1, 3-butane diol, NN-dimethyl decenamide amide, dipropylene glycol butyl ether and mixtures thereof.

21: 2023/10417. 22: 2023/11/08. 43: 2025/01/30

51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: BANGAL, AMALENDU, GHOSH DASTIDAR, SUDIPTA, GHOSH, CHANDRA SEKHAR, RAJAN, MEENA

33: IN 31: 202121025987 32: 2021-06-10

33: EP 31: 21187455.7 32: 2021-07-23

54: HIGH MOISTURE SILICA GEL SOAP BARS AND PROCESS FOR PREPARING THE SAME

00: -

Disclosed is a soap composition comprising 45 to 75 wt% total fatty matter; 0.1 to 3 wt% electrolyte comprising sodium sulphate; silica gel; and 15 to 30 wt% moisture. The invention also provides process of making high moisture soap bars with good hardness by in situ generation of silica gel during the soap making process.

21: 2023/10419. 22: 2023/11/08. 43: 2025/01/30

51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: MURALIDHARAN, GIRISH, RAMACHANDRAN, RAJEESH KUMAR

33: EP 31: 21179498.7 32: 2021-06-15

54: A UNIT DOSE TABLET COMPOSITION

00: -

A unit-dose tablet composition comprising a surfactant, a builder, a filler and an effervescent agent selected from organic acids wherein at least 90% wt. of the effervescent agent is coated with triglyceride oil.

21: 2023/10433. 22: 2023/11/09. 43: 2025/03/12

51: A47J

71: NEXTGENFOODS (PTY) LTD

72: TERBLANCHE, Petrus, Wilhelm

33: ZA 31: 2022/10749 32: 2022-09-29

54: FOOD PROCESSOR AND FOOD PROCESSING UNIT

00: -

The invention provides a food processing unit, food processing plant and a method of processing food products. The unit includes a generally elongate chassis having an inlet side and an outlet side, a continuous belt conveyor arrangement on and along the length of the chassis extending from outside the inlet side to outside the outlet side with the inlet side pulley being lower than the outlet side pulley such that product conveyed will be deposited from the outlet side of the conveyor onto the inlet side of a conveyor of an inline downstream food processing unit, a first airflow arrangement, which includes a blower and air chambers arranged below the conveyor belt and directing the airflow upwards through and or past the conveyor belt, and a second airflow arrangement, provided with an outflow air chamber proximate the exit side of the conveyor and directing counter airflow over the conveyor belt in a direction opposite to the conveyor and an inflow air chamber proximate the inlet side of the conveyor, which inflow chamber is in airflow connection to a condenser for condensing and recovering water vapour. The unit further includes a plurality of processing elements selected from any one or more of infra-Spectrum Infra Red red radiating elements, gas burners, spray or steam nozzles, sprinklers and applicators. The unit also includes a wiring harness for connecting electrical motors and processing elements to a programmable logic controller (PLC) which is configured for receiving sensor signals and controlling any one or more of conveyor speed, heat, spray or steam application, airflow speed, airflow direction, rate of condensation and applicators.

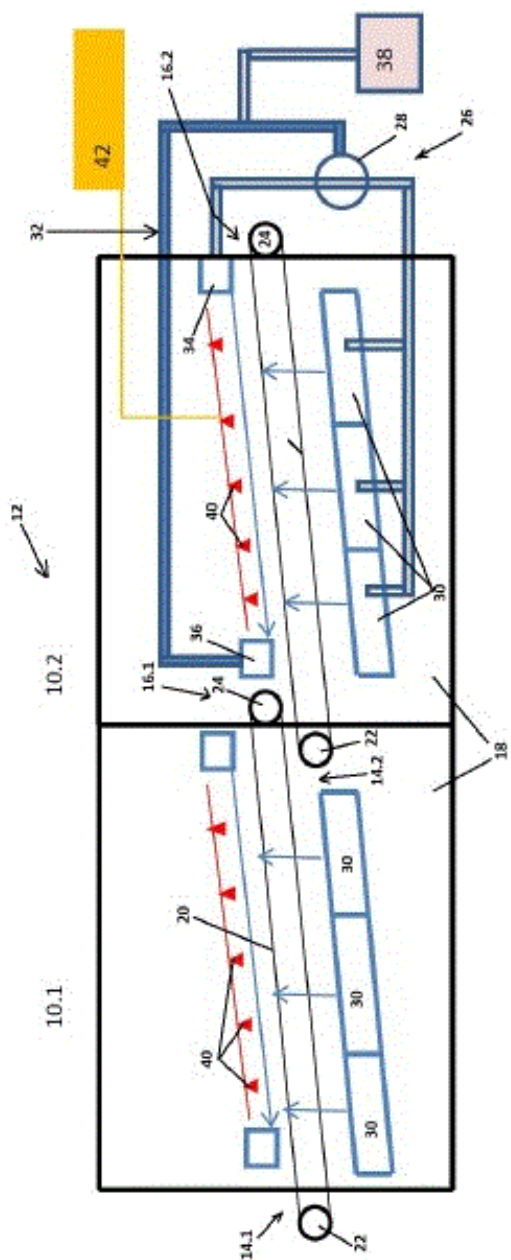
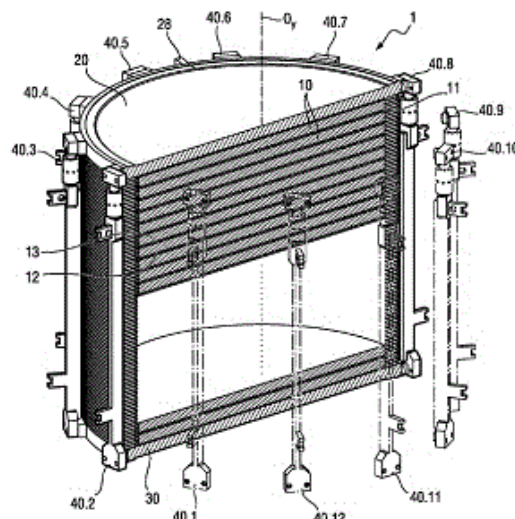


Figure 1



between a first intermediate end plate (20) and a second intermediate end plate (30), the first end plate (20, 120, 220) comprising a first smooth bore (23.1-23.12), the second end plate (30) comprising a second smooth bore (33.1-33.12). The invention also relates to a tie rod (40.1-40.12). The invention further relates to an electrolyser comprising an electrolysis unit.

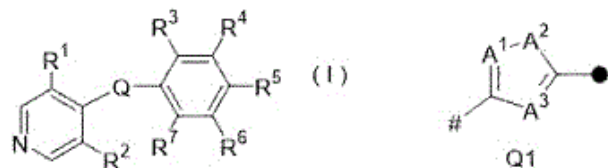
21: 2023/10453. 22: 2023/11/09. 43: 2025/01/16
 51: A01N; A01M; A01P; C07D
 71: SUMITOMO CHEMICAL COMPANY, LIMITED
 72: SHIODA, TAKAYUKI, TASHIRO, MASAYUKI,
 MINEGISHI, HIDEMITSU, TAMASHIMA, HIROTO,
 SAITO, YASUMASA
 33: JP 31: 2021-107328 32: 2021-06-29
**54: HETEROCYCLIC COMPOUND AND
 RESISTANT HARMFUL ARTHROPOD-
 CONTROLLING METHOD FOR COMPOSITION
 CONTAINING SAME**
 00: -

The present invention provides a compound having outstanding effectiveness against resistant harmful arthropods, a composition containing the same, and a control method. A compound represented by formula (I) [in which R¹ denotes a C1-C6 chain hydrocarbon group or the like, R² denotes a C1-C6 chain hydrocarbon group or the like, R³ and R⁷ denote hydrogen atoms or the like, R⁴ and R⁶ denote hydrogen atoms or the like, R⁵ denotes a hydrogen atom or the like, Q denotes a group represented by formula Q1 or the like, # denotes a binding site with a pyridine ring, denotes a binding

21: 2023/10452. 22: 2023/11/09. 43: 2025/01/30
 51: C25B
 71: JOHN COCKERILL HYDROGEN BELGIUM
 72: VAN HEE, LUC, BORGUET, SÉBASTIEN,
 BANASZAK, PIERRE
 33: CN 31: 202120941513.8 32: 2021-04-30
 33: CN 31: 202110479725.3 32: 2021-04-30
**54: ELECTROLYSIS UNIT FOR A FILTER-PRESS-
 TYPE ELECTROLYSER**
 00: -

The invention relates to an electrolysis unit (1) comprising a plurality of electrolysis cells (10) held against one another in a stacking direction (Oy)

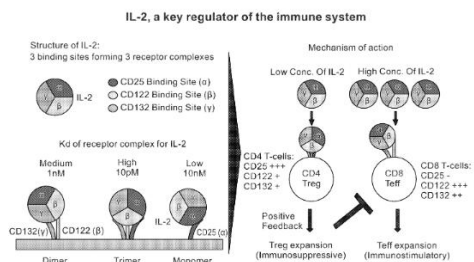
site with a benzene ring, A¹ denotes a nitrogen atom or the like, A² denotes a nitrogen atom or the like, and A³ denotes a nitrogen atom or the like], or an N-oxide or a salt thereof has an outstanding controlling effect on resistant harmful arthropods.



21: 2023/10456. 22: 2023/11/09. 43: 2025/01/16
 51: A61K; C07K; A61P
 71: AULOS BIOSCIENCE, INC
 72: AMIT, Inbar, LEVIN, Itay, NIMROD, Guy, FISCHMAN, Sharon, BARAK FUCHS, Reut, ŠTRAJBL, Marek, WYANT, Timothy, ZHENIN, Michael, BLUVSHEIN YERMOLAEV, Olga, SASSON, Yehezkel, GROSSMAN, Noam, LEVITIN, Natalia, OFRAN, Yanay
 33: US 31: 62/977,292 32: 2020-02-16
 33: US 31: 63/139,315 32: 2021-01-20

54: ENGINEERED ANTI-IL-2 ANTIBODIES

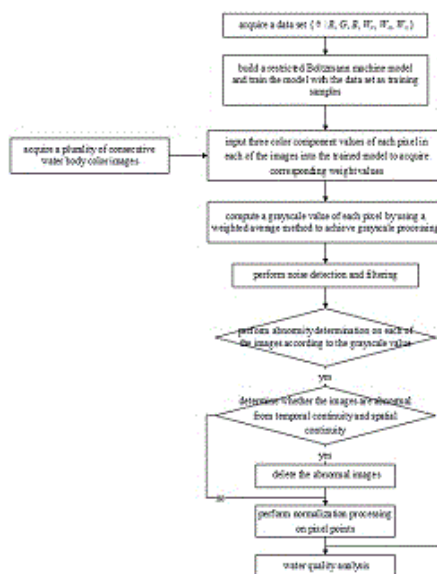
00: -
 Described herein are engineered anti-IL-2 antibodies with modified amino acid sequences. The engineered antibodies would confer modified receptor binding specificity to an IL-2-anti-IL2 antibody complex, inhibiting the binding of IL-2 to CD25. The engineered anti-IL-2 antibodies would facilitate expansion of subsets of effector immune cells and decrease undesirable effects caused by IL-2. Thus, the engineered anti-IL-2 antibodies would be useful in treating disease such as cancer and infection.



21: 2023/10480. 22: 2023/11/10. 43: 2025/01/30
 51: G06K; G06N; G01N
 71: CINF ENGINEERING CO., LTD.
 72: YAN, FENG, ZENG, XIANGJI, PAN, YAN, YANG, JINGYA, TAN, XIANGTIAN

54: WATER QUALITY IMAGE ANALYSIS METHOD AND SYSTEM BASED ON DEEP LEARNING, AND DEVICE AND MEDIUM

00: -
 Disclosed are a water quality image analysis method and system based on deep learning, and a device and a medium. A trained restricted Boltzmann machine model is used to acquire a dynamic weight value, and then grayscale processing is performed according to the weight value and a weighted average method, such that the adaptability of a dynamic image to an actual environment is improved, and the accuracy of dynamic image information is improved; then image abnormality determination is performed, such that the impact on the result of water quality analysis caused by the fact that other factors cause an image abnormality is eliminated, and the accuracy of water quality analysis is improved; noise detection and filtering processing are performed, such that the interference prevention capability of the image is greatly improved, the image analysis speed is improved, and the accuracy of water quality analysis is further improved; and normalization processing is performed on all pixel points of a normal image, such that the accuracy of dynamic image information is further improved, and the accuracy of water quality analysis is further improved.



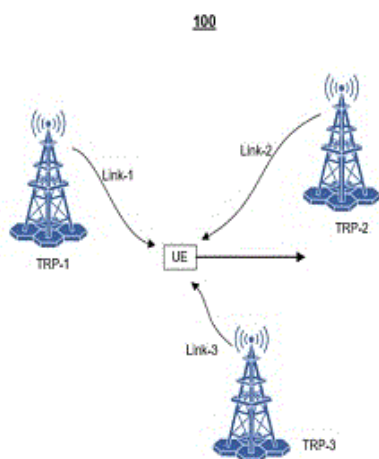
21: 2023/10484. 22: 2023/11/10. 43: 2025/01/30
 51: H04W; H04Q
 71: ZTE CORPORATION

72: GAO, BO, LU, ZHAOHUA, MEI, MENG, ZOU, MINQIANG, YAN, WENJUN

54: REPORTING FREQUENCY AND DOPPLER PARAMETERS FOR COHERENT JOINT TRANSMISSION (CJT) AND MOBILITY

00: -

Disclosed are methods, systems, apparatuses, and computer readable media for generating a wireless device report for assisting a network node with frequency domain and time domain synchronization. In one aspect, a method of wireless communication is disclosed. The method includes receiving, at a wireless device, a report configuration associated with a reference signal (RS). The method further includes determining, at the wireless device, channel state information (CSI), wherein the CSI comprises at least one of an RS indicator, a rank indicator (RI), a precoding matrix indicator (PMI), Doppler information, or a channel quality index (CQI), according to the report configuration. The method includes reporting, at a wireless device, the channel state information (CSI).



21: 2023/10533. 22: 2023/11/13. 43: 2025/01/30

51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: CHATTERJEE, DEBOSREE, MURALIDHARAN, GIRISH, PATHAK, GAURAV, RAJENDIRAN, GANESAN, RAMACHANDRAN, RAJEESH KUMAR, SEKHAR KUMAR, HIMADRI

33: EP 31: 21181563.4 32: 2021-06-24

33: EP 31: 21181564.2 32: 2021-06-24

54: UNIT DOSE CLEANING COMPOSITION

00: -

The present invention relates to unit dose cleaning composition. The invention particularly relates to unit

dose composition, and methods of treating surfaces with such compositions. It is an object of the present invention to provide a unit dose composition which releases sequentially ingredients contained therein. It is yet another object of the present invention to provide a unit dose cleaning composition that provides for lowering the amounts of the ingredients in the cleaning composition whilst maintaining the cleaning performance. The present inventors have found that providing a unit dose composition with at least two unit doses with specific compositions provides for a unit dose composition which achieves good cleaning performance.

21: 2023/10535. 22: 2023/11/13. 43: 2025/01/30

51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: CHATTERJEE, DEBOSREE, MURALIDHARAN, GIRISH, PATHAK, GAURAV, RAJENDIRAN, GANESAN, RAMACHANDRAN, RAJEESH KUMAR, SEKHAR KUMAR, HIMADRI

33: EP 31: 21181563.4 32: 2021-06-24

33: EP 31: 21181564.2 32: 2021-06-24

54: UNIT DOSE CLEANING COMPOSITION

00: -

The present invention relates to unit dose cleaning composition. The invention particularly relates to tablet composition, and methods of treating surfaces with such compositions. It is an object of the present invention to provide a unit dose composition which releases sequentially ingredients contained therein. It is yet another object of the present invention to provide a unit dose cleaning composition that provides for lowering the amounts of the ingredients in the cleaning composition whilst maintaining the cleaning performance. The present inventors have found that providing a unit dose composition with at least two discrete regions with specific compositions provides for a unit dose composition which achieves good cleaning performance.

21: 2023/10536. 22: 2023/11/13. 43: 2025/01/30

51: C01B; C07C; B01J

71: TOPSOE A/S

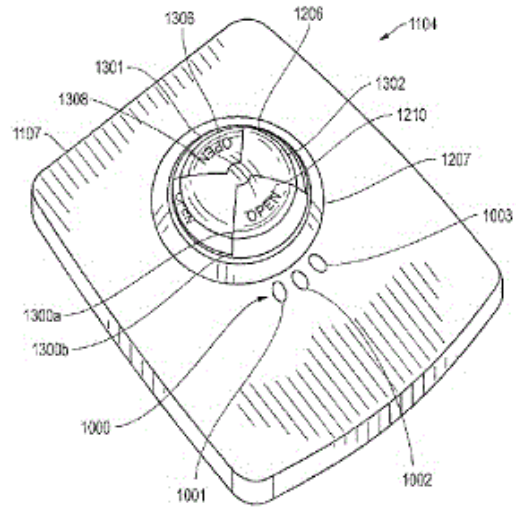
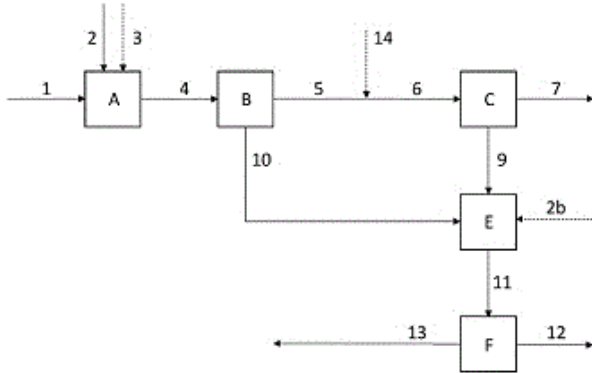
72: DAHL, PER JUUL, POULSEN, JESPER NAIMI FUNCH, BLAZQUEZ DIAZ, MARIA LUISA

33: EP 31: 21176582.1 32: 2021-05-28

54: BLUE METHANOL

00: -

A system and a process for producing blue methanol are provided, where blue methanol is understood as methanol produced under conditions limiting the emission of CO₂. The system comprises a shift section, a CO₂ removal section and in a preferred embodiment also a hydrogen recovery section, arranged downstream a methanol synthesis section.

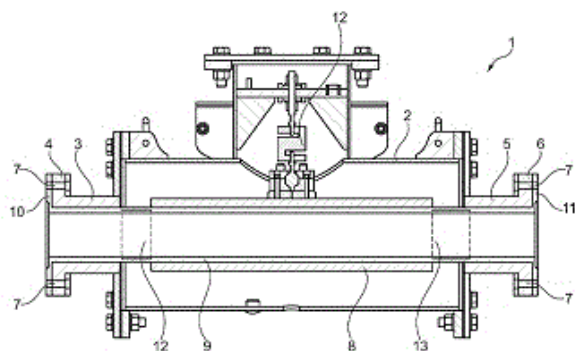


21: 2023/10560. 22: 2023/11/14. 43: 2025/01/30
 51: H01H; F16K
 71: BRAY INTERNATIONAL, INC.
 72: BROWN, CRAIG, WALKER, DAN, SCHMIDT, JAMES F
 33: US 31: 16/390,822 32: 2019-04-22
54: VALVE POSITION INDICATOR WITH LEDS
 00: -

The disclosure relates to a valve having: an actuator; a valve position indicator coupled to the actuator, wherein the valve position indicator includes: an indicator cover mounted over an indicator mounting surface, wherein the indicator mounting surface has a rim; a plurality of LED lights arranged on the indicator mounting surface, wherein the LED lights are bordering the rim of the indicator cover; and a sensor in communicative connection with the actuator and the plurality of LED lights, wherein the sensor is configured to communicate the position of the valve to the plurality of LED lights.

21: 2023/10575. 22: 2023/11/14. 43: 2025/01/31
 51: G01N
 71: ALIA INSTRUMENTS HOLDING B.V.
 72: PETERS, JAN
 33: EP 31: 21176299.2 32: 2021-05-27
54: DENSITY METER
 00: -

The invention relates to a density meter for slurry which is transported through pipes, the density meter comprising: - a housing having, on opposites sides of the housing, two flanged pipe couplings for coupling of a feed pipe and a discharge pipe; - a pipe part housed in the housing and extending between and spaced apart from the two flanged pipe couplings; - a flexible sleeve having on both ends a flange, which flexible sleeve extends through both pipe couplings and the pipe part and wherein the flanges of the flexible sleeve abut against the flange of the respective flanged pipe coupling; and - a sensor arranged to the pipe part and computing means for computing the density of the slurry in the pipe part at least on the basis of the volume of the pipe part and measurements of the sensor; wherein each flange of the flexible sleeve has an inner annular portion of a first thickness and an outer annular portion of a second thickness, wherein the first thickness is smaller than the second thickness; and in that a spacer ring is provided around each flange of the flexible sleeve and wherein the spacer ring abuts against the flange of the respective flanged pipe coupling, which spacer ring has a thickness of the first thickness or less.



21: 2023/10577. 22: 2023/11/14. 43: 2025/01/31
51: F03G

71: GRAVITY POWER LLC

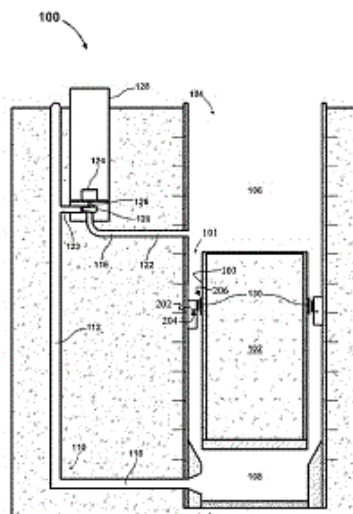
72: FISKE, ORLO JAMES

33: US 31: 63/184,066 32: 2021-05-04

54: GPP SEAL SYSTEM MAINTENANCE, REPLACEMENT AND SEISMIC ISOLATION

00: -

A sealing system for a Gravity Power Plant having a shaft (104) with a shaft wall (105) and a piston (102) incorporates a seal assembly support base (202) anchored into the shaft wall and surrounding the piston. A seal mount has a radial flange (210) to anchor the seal mount to the support base (202) and a vertical flange (212) extending from an inner circumference of the radial flange. A seal assembly (206) circumferentially contacting the piston, has a plurality of circumferentially spaced clamp assemblies (227) to engage the seal assembly to the vertical flange, the clamp assemblies having an open position releasing the seal assembly from the vertical flange and a closed position constraining the seal assembly on the vertical flange. For seismic isolation of the seal assembly the radial flange is supported on a lower bearing (406) supported on a top surface of the seal assembly support base proximate an inner surface. The radial flange (410) extends inward from the inner surface with the vertical flange spaced from the inner surface by a radial relief (428) within a gap between the seal assembly support base and the piston. An upper bearing is supported in engagement with a top surface (411) of the radial flange (410) of the seal mount (404).



21: 2023/10604. 22: 2023/11/15. 43: 2025/01/31
51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

72: BEKTO, HASIBA, HUANG, LEI

33: EP 31: 21181573.3 32: 2021-06-24

54: COSMETIC COMPOSITION WITH ENHANCED COLOR STABILITY

00: -

A cosmetic composition comprises resorcinol, functionalized heteroaromatic compound, and a retinoic acid precursor. An effective way to improve the color stability of compositions comprising such skin benefit agents is desired. It has been found that alkylresorcinol, functionalized heteroaromatic compound, and retinoic acid precursor in combination with antioxidant, compatible oil and emulsifying polymer provide for improved color stability of the composition. The inventive composition thus relates to a composition comprising a synergistic combination of emulsifying polymer with alkylresorcinols, functionalized heteroaromatic compounds and retinoids in combination with antioxidant and compatible oil.

21: 2023/10606. 22: 2023/11/15. 43: 2025/01/31
51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

72: HIBAN, DOUGLAS JOHN, MOADDEL,

TEANOOSH, VASUDEVAN, TIRUCHERAI

VARAHAN, KWAN, THOMAS ALAN

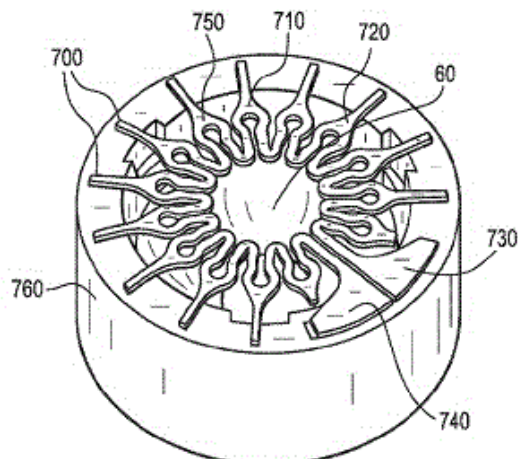
33: EP 31: 21183529.3 32: 2021-07-02

54: HYDRATABLE CONCENTRATED SURFACTANT COMPOSITION COMPRISING A

COMPOUND WITH A DEFINED WEIGHT PERCENT OF OXYGEN

00: -

The invention is directed to a hydratable concentrated surfactant composition. The composition is pourable, easy to dilute, substantially free of sulfate and oil, comprises a C6 -C14 acid, alcohol, amide or mixture thereof, anionic surfactant and an amphoteric surfactant, zwitterionic surfactant or both. The composition is in lamellar phase and thickens and transforms to an isotropic phase upon dilution. The composition comprises a hydroxyfunctionalized compound, can be used as a concentrate in small volumes and diluted as used and needed or can be diluted with water in refill packaging to ensure a reduction in plastic waste.



21: 2023/10704. 22: 2023/11/20. 43: 2025/01/31
51: H05B; A24F

71: ALTRIA CLIENT SERVICES LLC

72: HOLTZ, ARIE, WEIGENBERG, ISAAC

33: US 31: 16/273,612 32: 2019-02-12

54: HEATING ELEMENT AND HEATER ASSEMBLIES, CARTRIDGES, AND E-VAPOR DEVICES INCLUDING A HEATING ELEMENT

00: -

A heater assembly comprising a heating element and a support. The heating element includes (i) a planar portion including a filament, a first lead portion and a second lead portion. The filament defines an air channel through the planar portion. The filament is arranged so as to form a plurality of curves, the plurality of curves including a closed end, an open end, and a tip extending away from the air channel thereon. The tip of each of the curves includes a rectangular shape. At least one of the first lead portion, the second lead portion, or both the first lead portion and the second lead portion is/are coplanar with the planar portion of the heating element. The heating element is in contact with the support such that the tip of each one of the curves rests thereon.

21: 2023/10750. 22: 2023/11/21. 43: 2025/01/30
51: C07C

71: DOW TECHNOLOGY INVESTMENTS LLC

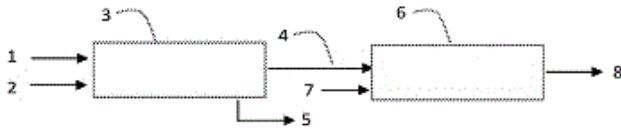
72: MILLER, GLENN A, YANG, JIN

33: US 31: 63/192,901 32: 2021-05-25

54: PROCESSES FOR THE VAPOR PHASE HYDROGENATION OF ALDEHYDES

00: -

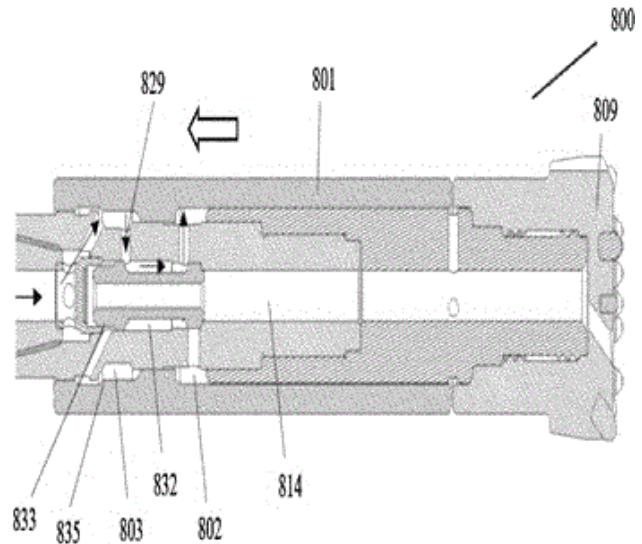
The present invention relates to processes for the vapor phase hydrogenation of aldehydes. In one embodiment, the process comprises (a) providing a liquid aldehyde stream to a vaporization system to generate a vaporous aldehyde stream in the presence of a weakly basic amine, wherein the weakly basic amine has a normal boiling point that is at least 50 C greater than the normal boiling point of the aldehyde, wherein the weakly basic amine reacts with acidic impurities in the liquid aldehyde stream to form ammonium salt adducts, and wherein the ammonium salt adducts and any excess weakly basic amine are removed as a heavies purge from the vaporization system; (b) combining the vaporous aldehyde stream with a hydrogen stream by either providing a hydrogen stream to the vaporization system, by adding a hydrogen stream to the vaporous aldehyde stream following step (a), or by a combination thereof; (c) providing the combined vaporous aldehyde and hydrogen stream to a vapor phase hydrogenation zone; and (d) hydrogenating the vaporous aldehyde in the vapor phase hydrogenation zone.



21: 2023/10767. 22: 2023/11/21. 43: 2025/01/30
 51: E21B; E02D
 71: MINCON INTERNATIONAL LIMITED
 72: KESKINIVA, MARKKU, PURCELL, JOSEPH, DUCK, SIMON
 33: IE 31: S2021/0095 32: 2021-04-30
 33: IE 31: S2021/0091 32: 2021-04-29

54: HYDRAULIC DOWN-THE-HOLE HAMMER AND SUBSEA PILE

00: -
 The present invention relates to a hydraulic down-the-hole hammer. The hammer comprises an elongate shaft and a piston having a central bore therethrough, the piston slidably mounted for reciprocal movement on the shaft and arranged to impact a percussion bit. Forward and rear drive chambers for the piston are disposed between the piston and the shaft and the forward chamber is separated from the rear chamber by an annular shoulder formed internally of the piston bore. The hammer also comprises a control valve to control reciprocation of the piston, wherein the control valve is arranged within the central bore of the piston. The hammer may be a disposable water hammer in which the piston is an outermost component of the hammer. The invention also relates to a method and system for installing a load-bearing element in a seabed, a method and system for installing a subsea anchor on a seabed, a subsea pile and a subsea anchor.



21: 2023/10803. 22: 2023/11/22. 43: 2025/01/30
 51: H04N
 71: BEIJING DAJIA INTERNET INFORMATION TECHNOLOGY CO., LTD.
 72: JHU, HONG-JHENG, XIU, XIAOYU, CHEN, YI-WEN, CHEN, WEI, KUO, CHE-WEI, WANG, XIANGLIN, YU, BING
 33: US 31: 63/181,110 32: 2021-04-28

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 includes: in response to determining that transform skip is disabled, disabling, by a decoder, a presence of a rice parameter for transform skip residual coding. The method may further include adopting a flag of transform skip, sps_transform_skip_enabled_flag, to condition a presence of sps_ts_residual_coding_rice_present_in_sh_flag.

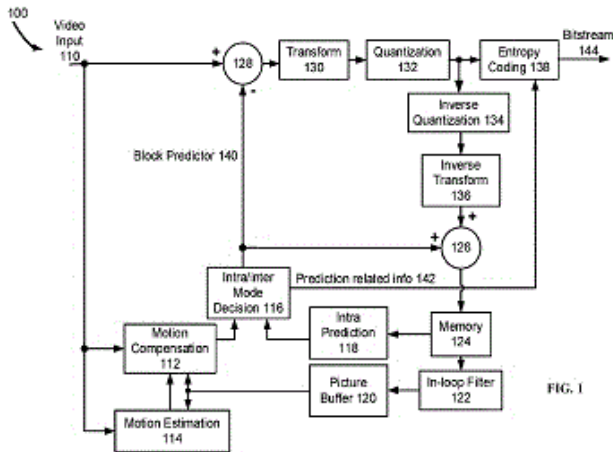
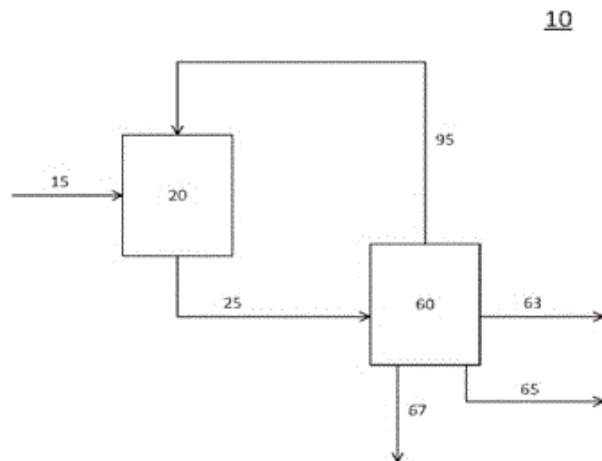
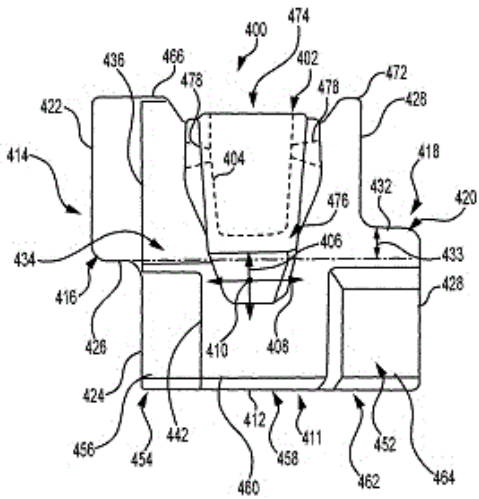


FIG. 1



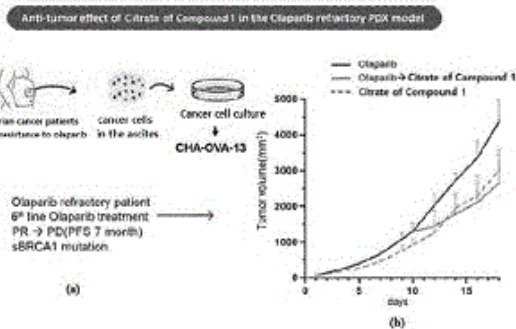
21: 2023/10805. 22: 2023/11/22. 43: 2025/01/31
 51: C07C
 71: CHEVRON PHILLIPS CHEMICAL COMPANY LP
 72: KREISCHER, BRUCE E
 33: US 31: 17/329,287 32: 2021-05-25
54: METHODS FOR RECYCLING ETHYLENE IN AN ETHYLENE OLIGOMERIZATION REACTOR SYSTEM
 00: -
 Methods for recycling ethylene from a reaction zone effluent stream from an oligomerization reaction zone, in which the reaction zone effluent stream contains an oligomer product effluent having at least 20 mass % octene(s), include a step of separating the reaction zone effluent stream into a first stream containing ethylene and less than 5 mass % C₄₊ olefins, a second stream containing butene(s) and less than 10 mass % C₆₊ olefins, a third stream containing at least 96 mass % hexene(s), and a fourth stream containing at least 96 mass % octene(s). The ethylene-rich first stream is recycled into the oligomerization reaction zone, while the recycle of 1-butene and other butenes is reduced significantly.

21: 2023/10824. 22: 2023/11/23. 43: 2025/01/31
 51: E02F
 71: CATERPILLAR INC.
 72: WELLS, COREY MICHAEL, SERRURIER, DOUGLAS C, JURA, JASON GRANT
 33: US 31: 17/332,076 32: 2021-05-27
54: OVERLAPPING CUTTING EDGE TIP SYSTEM
 00: -
 A cutting edge tip (400) includes an attachment portion (402) defining an adapter receiving void (404). A working portion (411) extends forwardly from the attachment portion (402). A first lateral end portion (414) is disposed along the lateral direction (408), the first lateral end portion (414) defining a first lateral end surface (416) that jogs laterally. Also, a second lateral end portion (418) is disposed along the lateral direction (408) opposite of the first lateral end portion (414). The second lateral end portion (418) also defines a second lateral end surface (420) that jogs laterally.



21: 2023/10833. 22: 2023/11/23. 43: 2025/01/30
 51: A61K; A61P
 71: ONCONIC THERAPEUTICS INC.
 72: CHA, HYUN JU, LEE, CHANG SEOK, HAN, SANG WOO, KIM, JOHN
 33: KR 31: 10-2022-0060706 32: 2022-05-18
 33: KR 31: 10-2021-0064278 32: 2021-05-18
54: PARP INHIBITOR-RESISTANT CANCER THERAPEUTIC AGENT

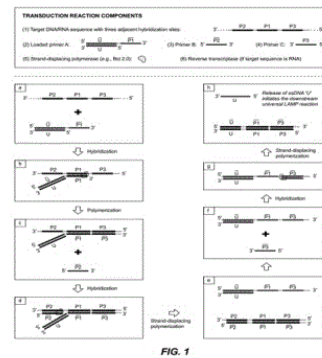
00: -
 The present invention relates to a pharmaceutical composition for the treatment or prevention of solid cancer of a patient with resistance to a PARP inhibitor. The pharmaceutical composition according to the present invention can effectively reduce a tumor size of a patient with resistance to a PARP inhibitor.



21: 2023/10834. 22: 2023/11/23. 43: 2025/01/30
 51: C12Q
 71: DUKE UNIVERSITY
 72: REIF, JOHN H, SONG, XIN

33: US 31: 63/191,590 32: 2021-05-21
54: UNIVERSAL LAMP ASSAYS FOR DETECTION OF NUCLEIC ACID TARGETS

00: -
 Disclosed are compositions and methods that enable loop-mediated isothermal amplification (LAMP) of one or more nucleic acid targets without the need for conventional LAMP primer design customized to each target. A transduction reaction is performed upstream from the LAMP reaction. The transduction reaction generates a single stranded DNA (ssDNA) oligonucleotide when the target nucleic acid is present in the sample. The ssDNA generated in the transduction reaction functions as a required LAMP primer for a universal LAMP template. The ssDNA thus promotes the LAMP reaction. Analysis of the LAMP products can determine the presence of the one or more nucleic acid targets.

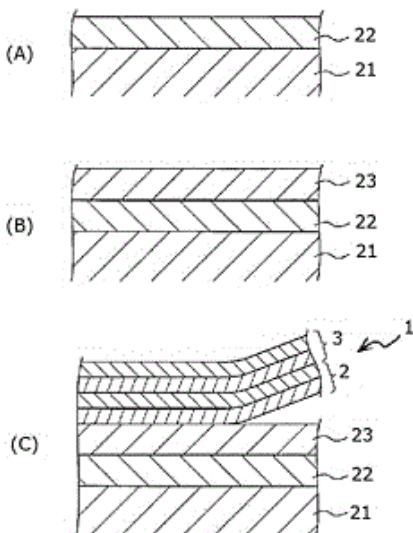


21: 2023/10849. 22: 2023/11/24. 43: 2025/01/30
 51: B28B; B32B; E04G
 71: KEIWA INCORPORATED
 72: HORIUCHI, NORIYUKI, NAKAJIMA, YOSHIKI, NINOMIYA, AKIRA, YOSHIDA, MASAKI, SHIMOTANI, KENTA
 33: JP 31: 2019-132332 32: 2019-07-17
 33: JP 31: 2019-132333 32: 2019-07-17

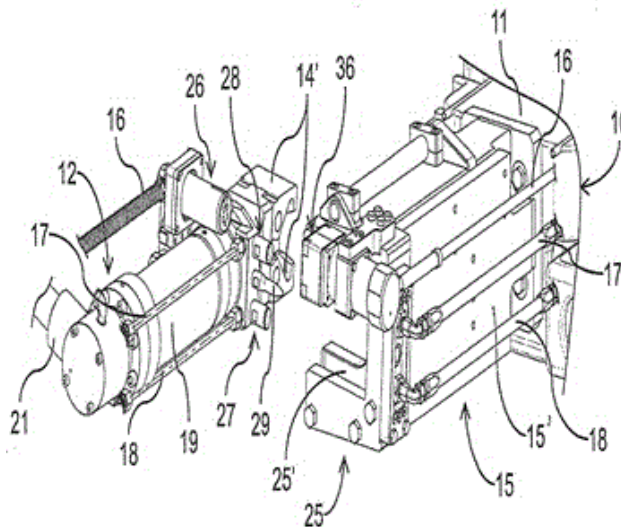
54: STRUCTURE PROTECTION SHEET, EXECUTION METHOD AND PRECAST MEMBER USING STRUCTURE PROTECTION SHEET, AND METHOD FOR MANUFACTURING PRECAST MEMBER

00: -
 The present invention provides a structure protection sheet that is capable of remarkably reducing construction time for setting a protection layer on a surface of a structure such as concrete and capable of protecting the structure for a long time. The

present invention relates to the structure protection sheet provided with a polymer cement layer set on a structure side and a resin layer set on the polymer cement layer, the structure protection sheet characterized in that a thickness distribution is within $\pm 100 \mu\text{m}$.



particular when performing maintenance on the sliding closure using a robot, and the process stability and operational reliability while casting are increased as well.



21: 2023/10876. 22: 2023/11/24. 43: 2025/01/30
51: B22D
71: REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG
72: RENGGLI, RAPHAEL, BUTTIGNOL, STEFANO
33: EP 31: 21173829.9 32: 2021-05-14

54: METHOD FOR THE MAINTENANCE OF A SLIDING CLOSURE ON A MOLTEN METAL-CONTAINING VESSEL, AND SLIDING CLOSURE

00: -
In particular, the invention relates to a method for the maintenance of a sliding closure (10) of a molten metal-containing vessel. The sliding closure (10) has a housing (11), a slide unit which is longitudinally guided therein, a mounting (15), a linear drive (12) which can be inserted into the mounting for adjusting the slide unit, and at least one electric line and/or connection line (16, 17, 18) for a medium, such as gas or air. The at least one electric line and/or connection line (16, 17, 18) for the medium is connected by means of a plug-in process. The plug-in process of the at least one connection line (16, 17, 18) is carried out automatically by inserting the linear drive (12) into the mounting (15) and/or the linear drive is released by removing the linear drive out of the mounting (15). Thus, the handling is simplified in

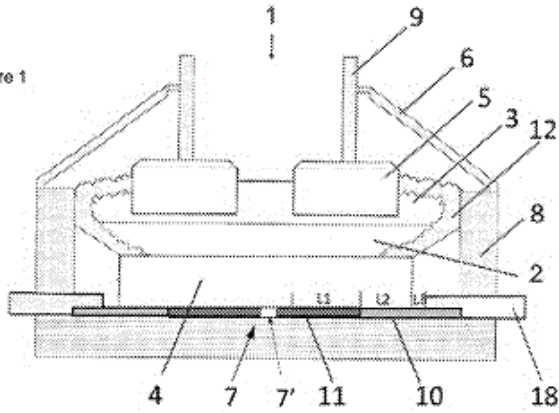
21: 2023/10877. 22: 2023/11/24. 43: 2025/01/30
51: C25C

71: NOVALUM S.A., TOKAI COBEX GMBH
72: SPINETTI, GUALTIERO, VON KAENEL, RENÉ, PFEFFER, MARKUS, VERA GARCIA, OSCAR, MINKINA, MARIUSZ, MIELNIK, SEWERYN
33: CH 31: 00522/21 32: 2021-05-10

54: CATHODE CURRENT COLLECTOR BAR OF AN ALUMINIUM PRODUCTION CELL

00: -
An aluminium production cell comprises an elongated cathode current collector bar (7) in contact with a carbonaceous cathode (4), the cathode current collector bar (7) of copper or a copper alloy coated on its surface facing the cathode or all around with a thin steel protective layer 0.15 mm to 4 mm thick that forms an effective protection of the current collector bar from diffusion of aluminium or other reaction products produced on the carbonaceous cathode during operation. The volume ratio of the copper or copper alloy to the thin steel protective layer is for example in a range 400% - 500%. The protective thin steel layer including an optional pre-applied thinner conductive non-ferrous under or overcoat is preferably in direct contact with the carbonaceous cathode that is ready to use with no need for rodding with cast iron.

Figure 1



21: 2023/10933. 22: 2023/11/27. 43: 2025/01/30
51: H04W

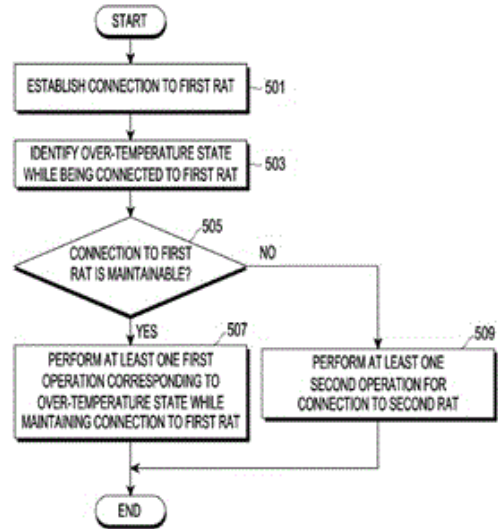
71: SAMSUNG ELECTRONICS CO., LTD.
72: BAE, JANGGUN, LEE, KYOUNGHO, KIM, SUNGSICK

33: KR 31: 10-2021-0078270 32: 2021-06-16

54: ELECTRONIC DEVICE PERFORMING OPERATION IN RESPONSE TO OVER-HEATED STATE, AND METHOD FOR OPERATING SAME

00: -

According to various embodiments, an electronic device comprises: at least one processor; and a sensing module, wherein the at least one processor may be configured to: confirm that the electronic device is in an over-heated state, on the basis of sensing data from the sensing module, while a first connection to a first network is established on the basis of a first RAT; confirm whether a specified application is running, on the basis of confirming that the electronic device is in the over-heated state; disconnect the first connection without receiving a disconnection message from the first network on the basis of confirming that the specified application is running; after the first connection is released, perform a scan associated with a second RAT different from the first RAT; and establish a second connection with a second network different from the first network on the basis of the second RAT depending on a result of the scan. Various other embodiments are possible.



21: 2023/10936. 22: 2023/11/27. 43: 2025/01/30
51: H04W

71: SAMSUNG ELECTRONICS CO., LTD.
72: SHAFIN, RUBAYET, NG, LOONG BOON, RATNAM, VARDHAN VISHNU, IBRAHIM, ATEF IBRAHIM AHMED, NAYAK, PESHAL

33: US 31: 17/933,279 32: 2022-09-19

33: US 31: 63/329,725 32: 2022-04-11

33: US 31: 63/398,479 32: 2022-08-16

33: US 31: 63/248,379 32: 2021-09-24

33: US 31: 63/332,588 32: 2022-04-19

54: RESTRICTED TWT WITH ENHANCED MULTI-LINK SINGLE RADIO (EMLSR) OPERATION

00: -

Methods and apparatuses for facilitating the coexistence of enhanced multi-link single radio (EMLSR) operation with target wake time (TWT) operation in a wireless local area network. A non-access point (AP) MLD comprises STAs, each comprising a transceiver that forms a link with a corresponding AP of an AP MLD, and a processor. A restricted TWT (R-TWT) schedule is established on a first link, and a first STA on that link is a member of an R-TWT service period (SP) on that link. A second STA on a second link is not a member of any R-TWT SP on that link that overlaps with the R-TWT SP on the first link. The processor transitions the non-AP MLD into EMLSR operation wherein the first and second links form an EMLSR link pair, determines that a transmission opportunity (TXOP) has begun on the second link, and coordinates between the STAs such that a frame exchange sequence with the AP MLD on the second link during the TXOP does not overlap with the R-TWT SP on the first link.

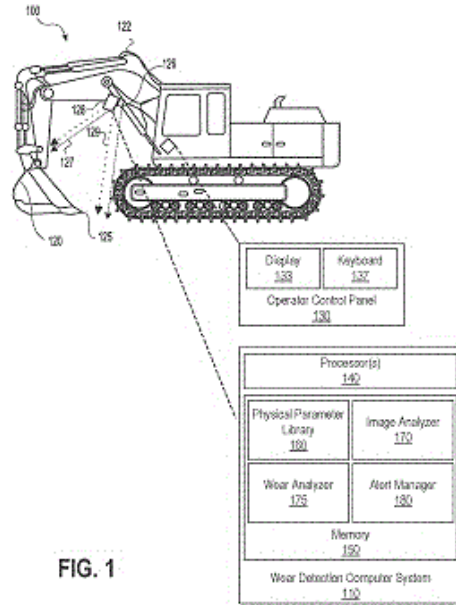
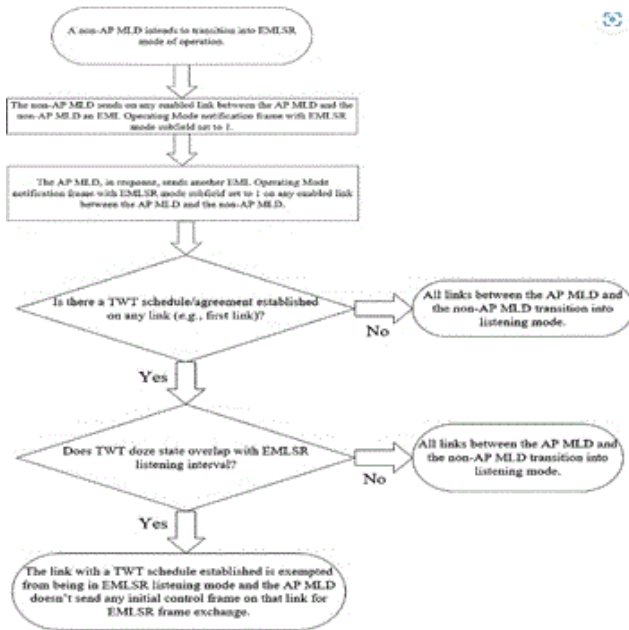


FIG. 1

21: 2023/10967. 22: 2023/11/28. 43: 2025/01/30
51: E02F

71: CATERPILLAR INC.

72: MIANZO, LAWRENCE A, OBLAK, TOD A, PLOUZEK, JOHN M, WISE, RAYMOND A, MATHEW, SHAWN N

33: US 31: 17/335,835 32: 2021-06-01

54: GROUND ENGAGING TOOL WEAR AND LOSS DETECTION SYSTEM AND METHOD

00: -

An example wear detection system (110) receives first imaging data from one or more sensors (126, 128) associated with a work machine (100). The first imaging data comprises data related to at least one ground engaging tool (GET) (125) of the work machine. The example system identifies a region of interest including data of the at least one GET within the first imaging data. Based on the identified region of interest, the example system controls a LiDAR sensor (126) to capture second imaging data capturing the at least one GET that is of higher resolution than the first imaging data. The example system generates a three-dimensional point cloud of the at least one GET based on the second imaging data and determines a wear level or loss for the at least one GET based on the three-dimensional point cloud.

21: 2023/11036. 22: 2023/11/29. 43: 2025/01/30
51: C07C

71: INNER MONGOLIA YITAI COAL-BASED NEW MATERIALS RESEARCH INSTITUTE CO., LTD.

72: WU, JINGWEI, ZHANG, YUE, QIAN, ZHEN, LI, ZHIFEI, ZHANG, XIAOLONG, ZHANG, XINPING, SHI, XIANGQIANG, AO, ZHENGXU, GUO, XUANHENG, LI, JUNCHENG, WANG, HAIGUO, REN, CHANGYU

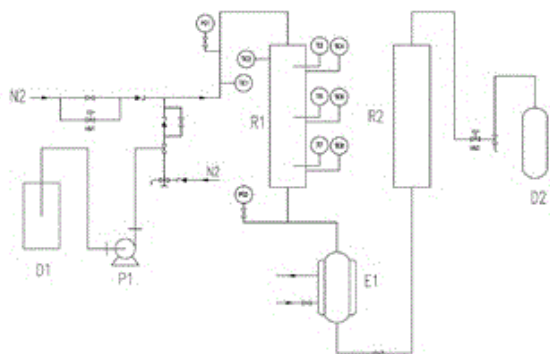
33: CN 31: 202210890163 .6 32: 2022-07-27

54: METHOD FOR PREPARING A COAL-BASED LINEAR ALKYL BENZENE

00: -

The present disclosure provides a method for preparing a coal-based linear alkylbenzene, wherein the coal-based linear alkylbenzene is prepared by an alkylation reaction using a coal-based Fischer-Tropsch synthetic oil and a benzene as reaction raw materials and using a molecular sieve loaded with a strong acid cation exchange resin as a catalyst; the strong acid cation exchange resin has an acid strength = 0.9 mmol/g [H+]; and the coal-based Fischer-Tropsch synthetic oil comprises a linear olefin with a carbon number range of C9-C13. In the present disclosure, the strong acid cation exchange resin is loaded into pores and onto a surface of the molecular sieve, which has better effect on the selectivity to the alkylbenzene product. The product has a high straight chain ratio, has a high selectivity for 2-position substitution, and may maintain a relatively high olefin conversion rate without a treatment of removing water or oxygenates from the

reaction raw materials, thereby significantly increasing the lifetime of the catalyst.



21: 2023/11037. 22: 2023/11/29. 43: 2025/01/30
51: C08J; C08C; C08L; C08F
71: RUBBER NANO PRODUCTS (PROPRIETARY) LIMITED

72: BOSCH, ROBERT MICHAEL

33: ZA 31: 2021/02983 32: 2021-05-04

54: METHOD OF FUNCTIONALISING AN ELASTOMERIC MATERIAL AND THE USE THEREOF IN RUBBER FORMULATIONS

00: -

A method of functionalising an elastomeric material, such as a rubber particle, is provided. The method comprises the functionalisation of an elastomeric material through the use of an ionic liquid based composition, which comprises a water soluble polymer, a cationic silicate component, and a salt of a vulcanization accelerator, together with a zinc compound, sulphur, and an accelerator. Rubber particles, for example particles from recycled rubber products, functionalised according to the method disclosed can successfully be utilised in virgin rubber masterbatches at concentrations not previously possible.

21: 2023/11082. 22: 2023/11/30. 43: 2025/01/30
51: C11D

71: UNILEVER GLOBAL IP LIMITED
72: MURALIDHARAN, GIRISH, PATHAK, GAURAV, RAMACHANDRAN, RAJEESH KUMAR

33: EP 31: 21177953.3 32: 2021-06-07

54: A TABLET COMPOSITION

00: -

The present invention relates to a detergent tablet, in particular, it relates to a detergent tablet for providing a liquid detergent composition on dissolution in water. It discloses a unit dose tablet comprising a

surfactant, 0.1 to 10 % by weight hydrogel and a water-soluble inorganic salt, wherein the hydrogel has a swelling ratio of at least 50, wherein swelling ratio is defined by the formula: S_R (Swelling ratio) = $(W_s - W_D) / W_D$, where W_s is the weight of the hydrogel after swelling, and W_D is the weight of the dried hydrogel, a surfactant and a hydrogel. It further discloses a process for forming a liquid detergent composition comprising the steps of providing water in a container, adding said tablet into the water, wherein the ratio of tablet to water is in the range from 1 :5 to 1:100 by weight.

21: 2023/11083. 22: 2023/11/30. 43: 2025/01/30
51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

72: BIAN, WEI, WEI, PING

33: EP 31: 21189246.8 32: 2021-08-03

33: CN 31: PCT/CN2021/099576 32: 2021-06-11

54: SKIN CARE COMPOSITION

00: -

Disclosed is a skin care composition comprising retinoid, a first modified starch and a second modified starch, wherein the weight ratio of the total modified starches to the retinoid is at least 7:1.

21: 2023/11085. 22: 2023/11/30. 43: 2025/01/30
51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: MURALIDHARAN, GIRISH, RAMACHANDRAN, RAJEESH KUMAR

33: EP 31: 21179488.8 32: 2021-06-15

54: A UNIT DOSE TABLET COMPOSITION

00: -

A unit-dose cleaning composition comprising: a) a swellable disintegrant selected from microcrystalline cellulose, sodium starch glycolate and mixtures thereof; b) a non-swellable disintegrant selected from polyvinyl pyrrolidone, calcium silicate, starch, magnesium stearate and mixtures thereof (c) a water-soluble salt having a solubility in distilled water of in the range of 0.5 g/100 mb to 75 g/100 mb at 25 °C; d) an effervescent and e) a surfactant.

21: 2023/11087. 22: 2023/11/30. 43: 2025/01/30
51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

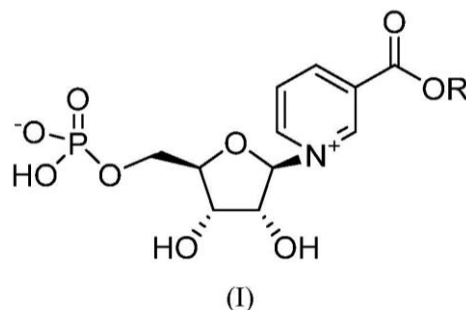
72: KAY, CAMERON, LUCKWELL, CRAIG JAMES

33: EP 31: 21184313.1 32: 2021-07-07

54: AQUEOUS ANTIPERSPIRANT COMPOSITIONS

00: -

An aqueous composition comprising an aluminium-zirconium-glycine complex which is an aluminium-zirconium tri-, tetra-, or penta-chlorohydrate-glycine complex and a water-soluble calcium salt, the molar ratio of aluminium to calcium being from 1.3 to 60 and the molar ratio of aluminium to glycine being from 1.5 to 25.



21: 2023/11088. 22: 2023/11/30. 43: 2025/01/30

51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

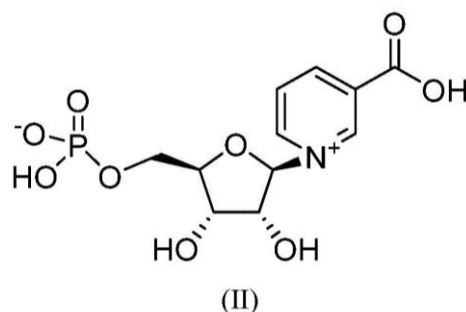
72: KAY, CAMERON, LUCKWELL, CRAIG JAMES

33: EP 31: 21184287.7 32: 2021-07-07

54: METHOD OF MANUFACTURE OF ANTIPERSPIRANT SALTS

00: -

A method of manufacture of an aluminium-zirconium (Al/Zr) antiperspirant active comprising the heating in aqueous solution of an aluminium-zirconium tri-tetra- or penta-chlorohydrate-glycine complex and a water-soluble calcium salt, the molar ratio of aluminium to calcium being from 1.3 to 60.



21: 2023/11094. 22: 2023/11/30. 43: 2025/01/29

51: A61K

71: Metro International Biotech, LLC

72: KREMSKY, Jonathan N., SZCZEPANKIEWICZ, Bruce, KOPPETSCH, Karsten, HARRIS, Joseph, PITAK, Mateusz, BATES, Martin

33: US 31: 63/193,905 32: 2021-05-27

54: CRYSTALLINE SOLIDS OF NICOTINIC ACID MONONUCLEOTIDE AND ESTERS THEREOF AND METHODS OF MAKING AND USE

00: -

The present disclosure relates to crystalline solids comprising a compound of Formula (I), wherein R is n-propyl, and methods of making compounds of Formula (I) wherein R is C1- C4 alkyl or C2-C4 alkenyl. The present disclosure also relates to crystalline solids comprising a compound of Formula (II). The present disclosure further relates to methods of preparing the crystalline solids, and pharmaceutical preparations of the crystalline solids, and use of such pharmaceutical preparations in treatment of diseases and conditions.

21: 2023/11241. 22: 2023/12/06. 43: 2025/01/14

51: A61K A61P

71: LG CHEM, LTD.

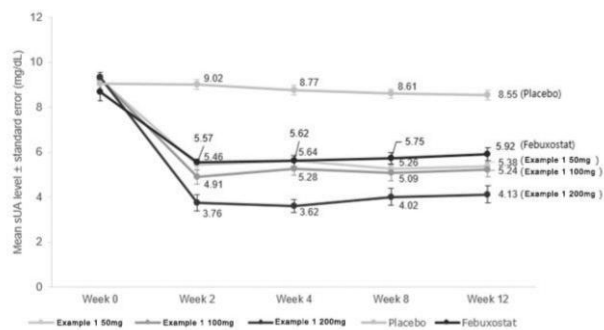
72: LEE, Jieun, GWAK, Heemin, SHIN, Seong Hye, MIN, Ji Young, KIM, Min Hee, KIM, Junyu, SEO, Jung Youn, MUNE, June Sik

33: KR 31: 10-2021-0077709 32: 2021-06-15

54: PHARMACEUTICAL COMPOSITION COMPRISING 1-(3-CYANO-1-ISOPROPYL-INDOL-5-YL)PYRAZOLE-4-CARBOXYLIC ACID

00: -

The present invention relates to: a pharmaceutical composition comprising 1-(3-cyano-1-isopropyl-indol-5-yl)pyrazole-4-carboxylic acid or a pharmaceutically acceptable salt thereof; and a method for preventing or treating hyperuricemia-related diseases using same. The pharmaceutical composition of the present invention may effectively reduce the uric acid level in the blood of a patient who has a hyperuricemia-related disease.



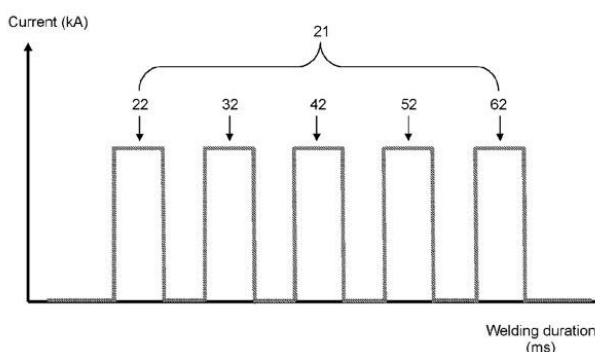
21: 2023/11434. 22: 2023/12/12. 43: 2025/01/13
 51: C08G; C08L
 71: DANIMER IPCO, LLC
 72: TERWILLEGAR, AME MATTHEW, DURIE,
 KARSON, KUNDU, MANGALDEEP
 33: US 31: 17/744,109 32: 2022-05-13
 33: US 31: 63/188,668 32: 2021-05-14
54: POLYESTER IMPACT MODIFIERS

00: -
 A polyester is disclosed which is made up of: (1) from about 15 to about 40 weight percent monomer repeat units of isosorbide; (2) from about 25 to about 60 weight percent monomer repeat units of a dicarboxylic acid or anhydride such as succinic acid or anhydride; and (3) from about 10 to about 20 weight percent monomer repeat units of a polyhydric alcohol such as 1,3 -propan ediol. In some instances, the polymer may also include monomer repeat units of methyl nadic anhydride or nadic anhydride. A polymer composition is also disclosed, which includes the polyester as well as a biodegradable polymer selected from the group consisting of poly(lactic acid), poly(hydroxyalkanoates), and mixtures thereof.

21: 2023/11462. 22: 2023/12/13. 43: 2025/03/03
 51: B23K
 71: ARCELORMITTAL
 72: Zhifen WANG, Alexis CHIOCCA
 33: IB 31: PCT/IB2021/056661 32: 2021-07-23
54: A WELDING METHOD

00: -
 The invention relates to a welding method for the manufacture of an assembly of at least two steel substrates spot welded together through at least one spot welded joint, comprising: A. The provision of said substrates (3, 3') wherein a first one is a press hardened steel part obtained by press hardening of a steel sheet coated with an aluminium based

coating, B. The application of a spot-welding cycle with a spot-welding machine, comprising welding electrodes (1,T) and a spot-welding power source (2) applying a current, through said substrates, said cycle (21) consisting of: - at least three pulsations (22, 32, 42), each having the same maximum pulsation current (Cp) applied through said substrates, each pulsation duration p being identical and set from 20 to 60 ms, - each pulsation being followed by the same cooling time c set from 30 to 50 ms, wherein the welding parameter Wp value is at least 0.8, Wp being defined as $Wp = (t \times c)/p \times t$ being the average thickness of the substrate in mm, c being the cooling time in ms, p being the pulsation duration in ms.

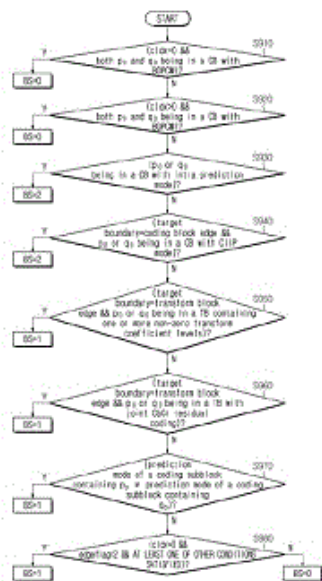


21: 2023/11670. 22: 2023/12/20. 43: 2025/01/23
 51: H04N
 71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
 72: JANG, HYEONG MOON, LEE, SANGHEON
 33: US 31: 62/994,831 32: 2020-03-25
54: METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE, FOR PERFORMING DEBLOCKING FILTERING BY DETERMINING BOUNDARY STRENGTH, AND METHOD FOR TRANSMITTING BITSTREAM

00: -
 A method and an apparatus for encoding/decoding an image are provided. The method for decoding an image, according to the present disclosure, comprises the steps of: obtaining a reconstructed picture; determining a target boundary of a deblocking filter in the reconstructed picture; determining a boundary strength for the target boundary; and applying the deblocking filter to the target boundary on the basis of the boundary strength, wherein when the target boundary is a transform block boundary and a color component of

the reconstructed picture is a chroma component, the boundary strength is determined on the basis of whether joint CbCr residual encoding is performed on at least one of two blocks adjacent to the target boundary, and the joint CbCr residual encoding may correspond to encoding residual samples for a chroma Cb component and a chroma Cr component into a single transform block.

FIG. 9



21: 2023/11685. 22: 2023/12/20. 43: 2025/01/13
51: C12N C12P
71: CJ CHEILJEDANG CORPORATION
72: LEE, Peter, PARK, Hye Min, HA, Cheol Woong,
LEE, Dong Pil
33: KR 31: 10-2021-0074819 32: 2021-06-09
**54: GERANYLGERANYL PYROPHOSPHATE
SYNTHASE VARIANT AND METHOD OF
PRODUCING TETRATERPENE, PRECURSOR
THEREOF, AND MATERIAL HAVING
TETRATERPENE AS PRECURSOR USING THE
SAME**

00: -
The present application relates to a geranylgeranyl pyrophosphate synthase variant; a polynucleotide encoding the variant; a vector carrying the polynucleotide; a microorganism including any one of the variant, the polynucleotide, and the vector; a method for producing tetraterpene, a precursor of tetraterpene, or a material having tetraterpene as a precursor; a composition for producing tetraterpene, a precursor of tetraterpene, or a material having tetraterpene as a precursor; and a use of a

microorganism including any one of the variant, the polynucleotide, and the vector for producing tetraterpene, a precursor thereof, and a material having tetraterpene as a precursor.

21: 2023/11687. 22: 2023/12/20. 43: 2025/01/21
51: C09D
71: EVONIK OPERATIONS GMBH
72: MARTENS-KRUCK, Susanne Christine, LJESIC, Spomenko, GÜZELSAHIN, Mustafa, ZEISEL, Steffen
33: EP 31: 21176149.9 32: 2021-05-27
**54: ENVIRONMENTALLY FRIENDLY
COMPOSITION FOR TREATING MINERAL
SUBSTRATES**

00: -
The present invention relates to a dispersion for treating a surface of a substrate, especially of surface of a mineral substrate, a method of preparing said dispersion, a method for treating a surface of a substrate and a substrates obtained therewith.

21: 2024/00014. 22: 2024/01/02. 43: 2025/01/28
51: B03C
71: MMS METALS (PTY) LTD
72: LE ROUX, Charles Roberts
33: ZA 31: 2022/13909 32: 2022-12-22
**54: APPARATUS AND METHOD FOR
PERFORMING MAGNETIC SEPARATION**

00: -
A magnetic separator comprising a conveyor system configured to drive a conveyor element in a running direction, and a cooperating magnetic component arranged in proximity to the conveyor element. The magnetic component comprises a magnetic body having rows of magnets oriented transversely relative to a longitudinal axis of the magnetic component, the longitudinal axis being aligned generally parallel to the running direction of the conveyor element. The polar axis of each magnet is aligned generally parallel to the longitudinal axis and consecutive rows of the magnets are arranged so that like magnetic poles of the magnets face and repel each other to establish zones of alternating magnetic polarity. Elongate separator plates may be sandwiched between consecutive rows of the magnets. Also provided is a method for separating magnetically susceptible particulates from a mixture using the separator. The mixture may, for example,

comprise Run-of-the-Mine, crushed ore, mining waste or slag.

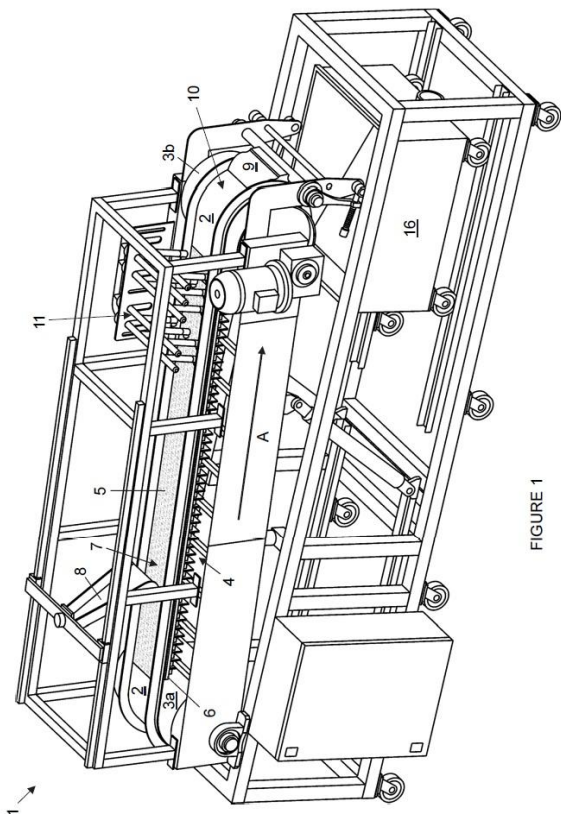
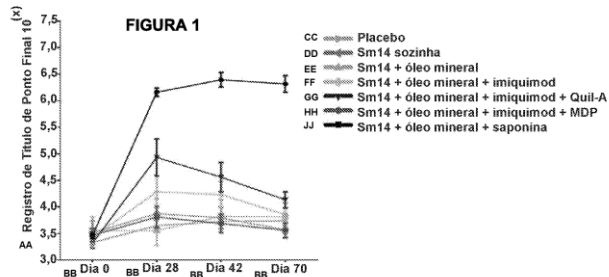


FIGURE 1

treating and preventing infection caused by parasitic worms, in particular Fasciola hepatica, and also the use of these proteins in a vaccine composition against parasitic worms.



AA Endpoint titer 10
 BB Day
 CC Placebo
 DD Sm14 only
 EE Sm14 + mineral oil
 FF Sm14 + mineral oil + imiquimod
 GG Sm14 + mineral oil + imiquimod + Quil-A
 HH Sm14 + mineral oil + imiquimod +MDP
 JJ Sm14 + mineral oil + imiquimod + saponin

21: 2024/00089. 22: 2024/01/02. 43: 2025/01/14
 51: A61K; C07K; A61P
 71: FABP BIOTECH DESENVOLVIMENTO EM BIOTECNOLOGIA LTDA., FUNDAÇÃO OSWALDO CRUZ

72: TENDLER, Miriam, RAMOS, Celso, Raúl, Romero, SOUSA, Gabriel, Limaverde, Soares, Costa

33: BR 31: 1020210129530 32: 2021-06-29

54: VETERINARY VACCINE COMPOSITION AGAINST PARASITIC WORMS, METHOD FOR TREATING AND PREVENTING INFECTION BY PARASITIC WORMS, AND USE

00: -
 The present invention relates to a veterinary vaccine composition based on fatty-acid-binding proteins (FABP) from parasites. Specifically, the invention discloses a veterinary vaccine composition based on the Schistosoma mansoni protein (rSm14) or homologous proteins of Fasciola hepatica (FhFABPs) that provide a homogeneous, long-term immune response against parasitic worms. The invention is also intended to provide a method for

21: 2024/00144. 22: 2024/01/03. 43: 2025/01/23

51: C12N C12P

71: CJ CHEILJEDANG CORPORATION

72: LEE, Ji Hyun, KWON, Hee Su, KIM, Dae Young, BAE, Hyun-jung, LEE, Ji Hye

33: KR 31: 10-2021-0065740 32: 2021-05-21

54: MICROORGANISM PRODUCING PURINE NUCLEOTIDE, AND PURINE NUCLEOTIDE PRODUCTION METHOD USING SAME

00: -
 The present application relates to a Corynebacterium stationis microorganism producing purine nucleotide, and a purine nucleotide production method using same, the microorganism having enhanced inorganic phosphate transporter system (Pit system) activity.

21: 2024/00147. 22: 2024/01/03. 43: 2025/01/23

51: H04L G06F

71: ACTIAN CORPORATION

72: KIRKHAM, Ian Philip

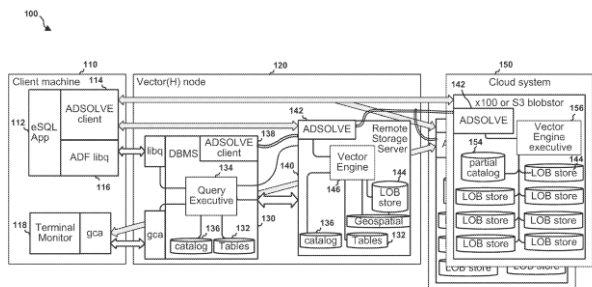
33: US 31: 63/209,358 32: 2021-06-10

33: US 31: 17/830,015 32: 2022-06-01

54: OBJECT DATA STORED OUT OF LINE VECTOR ENGINE

00: -
 Examples described herein generally relate to database systems for storing and processing both small values that are smaller than size of a database column and large objects that exceed the size of the

database column. A database management system (DBMS) determines that a value to be stored in a database is a large object having a size larger than a column of the database. The DBMS stores the value as a large object in an external storage associated with a token stored in the column of the database. The token includes information for processing the large object. A vector processing engine associated with the external storage processes the large object based on the information in the token in response to a database command from the DBMS on multiple records represented as a vector.



21: 2024/00148. 22: 2024/01/03. 43: 2025/01/23
 51: G06F
 71: ACTIAN CORPORATION
 72: KIRKHAM, Ian Philip
 33: US 31: 63/209,790 32: 2021-06-11
 33: US 31: 17/830,052 32: 2022-06-01
54: METHOD AND APPARATUS FOR STORING OBJECT TOKENS IN A DATABASE
 00: -

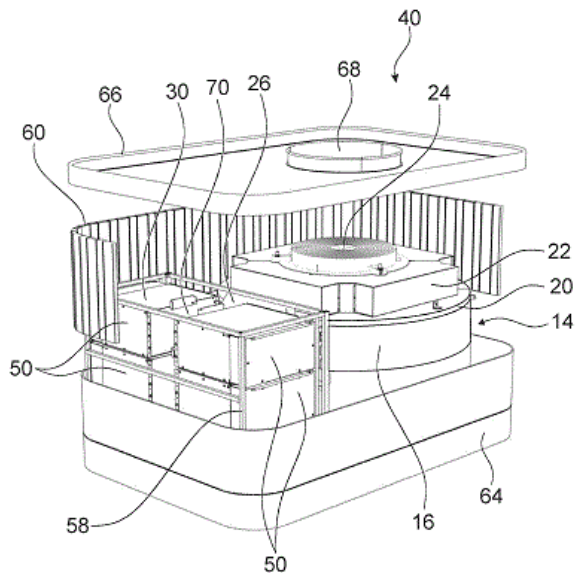
Examples described herein generally relate to database operations including encoding, within a length field for a first value to be stored in a column of a database as a token that includes information for processing a large object, an indicator indicating that the first value is of a token type, and storing, in the column of the database, the first value with the length field including the indicator.

21: 2024/00222. 22: 2024/01/05. 43: 2025/01/23
 51: A01N; A01P
 71: PARIJAT INDUSTRIES (INDIA) PVT. LTD.
 72: ANAND, Keshav, ANAND, Shivraj, ANAND, Uday, DHIMAN, Sarvind
 33: IN 31: 202111039826 32: 2021-09-02
54: HERBICIDAL COMPOSITION FOR CROP MANAGEMENT AND METHOD THEREOF
 00: -

Disclosed herein, a synergistic composition of metribuzin and fluroxypyr for controlling a wide spectrum of weeds and method for producing and use thereof. The composition is emulsifiable concentrate consist of two herbicides in an effective ratio developed to create an Oil/water emulsion when concentrate added into water.

21: 2024/00353. 22: 2024/01/10. 43: 2025/01/23
 51: F24F
 71: ENVOLA GMBH
 72: SCHECHNER, Alexander, IHLE, Gerhard, SCHWENK, Günther
 33: DE 31: 10 2021 118 417.7 32: 2021-07-16
54: OUTDOOR ENERGY-STORAGE DEVICE
 00: -

An outdoor energy-storage device (40) of a system (2) for air conditioning interior rooms (4) of a building (6), wherein the outdoor energy-storage device (40) can be arranged outside the building (6), can be partially sunken in the ground and comprises - an energy store (14) for energy transmission and energy storage with a liquid reservoir (16), a water heat exchanger (18) in the liquid reservoir (16) and an air heat exchanger (22) above the liquid reservoir (16), - a heat pump (30), which is coupled to the water heat exchanger (18) and the air heat exchanger (22), and - an exhaust-air connection (42), which is intended for exhaust air from the building (6) and is coupled to the energy store (14) and the heat pump (30) so that the exhaust air entering through the exhaust-air connection (42) adjusts the temperature of the heat pump (30), at least in certain regions, before the exhaust air enters the energy store (14).



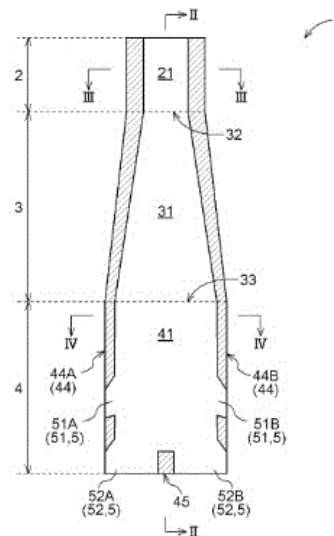
21: 2024/00355. 22: 2024/01/10. 43: 2025/01/23
 51: C12N C12P
 71: CJ CHEILJEDANG CORPORATION
 72: JUNG, Hwi-Min, PARK, Hye Min, SIM, Hee-jin, LEE, Jin Nam
 33: KR 31: 10-2021-0081785 32: 2021-06-23
54: RECOMBINANT MICROORGANISM IN WHICH EXPRESSION OF NADH:QUINONE OXIDOREDUCTASE IS CONTROLLED, AND METHOD FOR PRODUCING O-PHOSPHOSERINE, CYSTEINE, AND DERIVATIVE THEREOF BY USING SAME
 00: -

The present application relates to a recombinant microorganism in which the expression of NADH:quinone oxidoreductase is controlled, and a method for producing O-phosphoserine, cysteine, and a derivative of cysteine by using same.

21: 2024/00389. 22: 2024/01/11. 43: 2025/01/23
 51: B22D
 71: DANIELI & C. OFFICINE MECCANICHE S.P.A.
 72: NISHIO Kanae, NIITSUMA Hiroyasu, CONTE Riccardo
54: IMMERSION NOZZLE
 00: -

In this invention in a first portion 2 the cross-sectional shape of a flow channel 21 is circular, in a second portion 4 the cross-sectional shape of a flow passage 41 is rectangular, in a connection portion 3 the shape of a flow channel 31 continuously connects the flow passage 21 of the first portion 2 and the flow passage 41 of the second portion 4, in

the second portion 4 the ratio a/b of the length a of long side and the length b of short side of a rectangle is 3 to 7, the cross-sectional area $S2$ of the flow passage 41 in the second portion 4 is larger than the cross-sectional area $S1$ of the flow passage 21 in the first portion 2, an opening part 5 includes two first openings 51 and two second openings 52, the first openings 51 open one each on the two side surfaces 44 of the second portion 4, one second opening 52A of the two second openings 52 opens across a bottom surface 45 of the second portion 4 and one side surface 44A of the two side surfaces 44, and the other second opening 52B of the two second openings 52 opens across the bottom surface 45 and the other side surface 44B of the two side surfaces 44.



21: 2024/00405. 22: 2024/01/11. 43: 2025/01/28
 51: A61K; A61P
 71: SINOMAB BIOSCIENCE LIMITED
 72: LEUNG, SHUI-ON, CHONG, CHIHO, CHUANG, CHINGYI
 33: US 31: 63/221,261 32: 2021-07-13
54: METHODS OF TREATING NEUROLOGICAL DISEASES
 00: -

Provided herein are methods of promoting removal of beta-amyloid ($A\beta$) plaque, methods of reducing neuroinflammation, and methods treating a neurological disorder (e.g., Alzheimer's Disease) with certain anti-CD22 antibodies or antigen-binding fragments. Exemplary antibodies, characteristics

thereof, and methods of screening for additional therapeutic antibodies are also described herein.

21: 2024/00549. 22: 2024/01/16. 43: 2025/02/11
51: G06Q

71: LIPA PAYMENTS (PTY) LTD

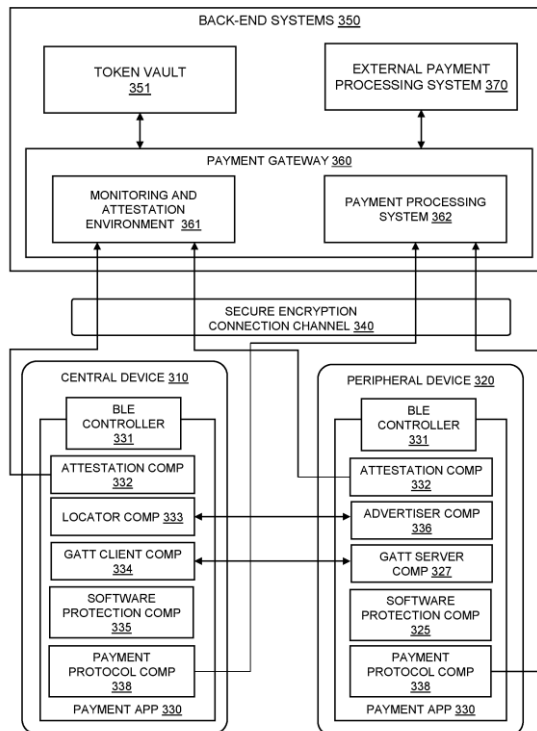
72: BUKURU, Roger

33: ZA 31: 2021/04795 32: 2021-07-09

54: CONTACTLESS PAYMENT METHODS AND SYSTEMS

00: -

A computer-implemented method, system, and computer program product for contactless payments. The method performed at a first computing device includes: adopting a role of payee or a role of payor in a payment transaction; establishing a Bluetooth Low Energy (BLE) data connection with a second computing device, wherein the second computing device adopting the other of the role of the payor or payee in the payment transaction; and exchanging data with the second computing device via the BLE data connection such that one of the first computing device or second computing device obtains a token from the other of the second computing device or the first computing device, the token being associated with a store of value from which or to which payment is to be made, the token being obtained for submission to a payment gateway for processing the payment transaction.



21: 2024/00577. 22: 2024/01/17. 43: 2025/01/23
51: A61L; H05B

71: Narsimha Chary MANDAJI

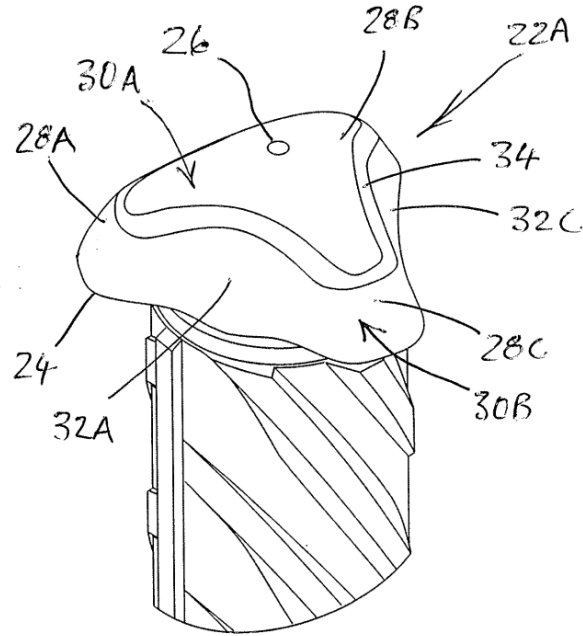
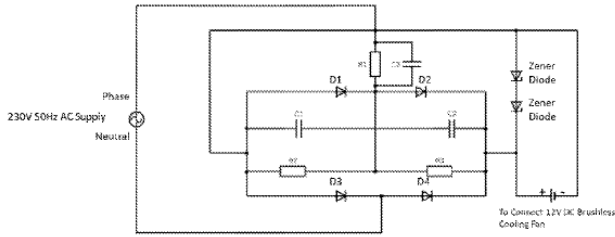
72: MANDAJI, Narsimha Chary

33: IN 31: 202141027063 32: 2021-06-17

54: A DEVICE WITH CUSTOMIZED INTEGRATED ELECTRONIC CIRCUIT FOR DESTROYING PATHOGENS

00: -

The present invention is related to a device for generating high lux intensity light comprising a filament-less lamp with a customized integrated electronic circuit that can maximize the lux intensity. The customized integrated electronic circuit has also been used in a transformer-less and battery-less high-density electron generator for generating high electron acceleration. The low-cost, light weight device is effective in killing harmful pathogens in a very short span of time.



21: 2024/00608. 22: 2024/01/17. 43: 2025/03/03
51: E21D

71: EPIROC HOLDINGS SOUTH AFRICA (PTY) LTD

72: CROMPTON, Brendan Robert, SHEPPARD, James William

54: A RESIN ANCHORED ROCK BOLT WITH A PIERCING END

00: -

The invention provides a resin bolt which includes an elongate shaft which extends between a leading end and a trailing end and a positioning head which is integrally formed with, or attached to, the shaft at the leading end and which extends in the elongate axis of the shaft from a perimeter rim to a crown, wherein the positioning head is formed with at least three radially spaced lobes, with each lobe extending equally laterally, beyond the radial dimension of the shaft and each lobe having a leading surface which slopes, at least partially, from the crown to the perimeter rim, and a trailing surface which extends from the perimeter rim to the shaft and wherein a plurality of concave recessed formations, which provide channels for the passage of resin, is formed, each between a pair of adjacent lobes.

21: 2024/00683. 22: 2024/01/19. 43: 2025/01/21
51: F04C; F04D; H02K

71: ATLAS COPCO AIRPOWER, NAAMLOZE VENNOOTSCHAP

72: SWERTS, THOMAS LUC, MATHYS, FLIP FRANS

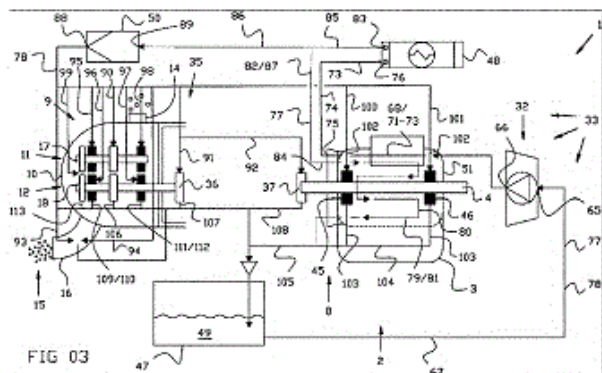
33: BE 31: BE2021/5642 32: 2021-08-12

33: BE 31: BE2022/5229 32: 2022-03-30

54: COMPRESSOR ASSEMBLY COMPRISING A MOTOR DRIVING ONE OR MORE COMPRESSOR ROTORS AND METHOD FOR FABRICATING A HOUSING PART OF SUCH A COMPRESSOR ASSEMBLY.

00: -

Compressor assembly (1) comprising a motor (2) which drives one or more compressor rotors (11, 12) comprising an oil circulation system (33) comprising an oil reservoir (47), an oil cooler (48) and an oil filter (50), an oil-pump (32) for circulating oil (49) from the oil reservoir (47) to components to be cooled and/or lubricated and back to the oil reservoir (47) wherein the motor (2) has a motor jacket (51) with channels (52) extending in axial directions (AA', BB', CC', DD',...) parallel to the axial direction (XX') of a motor shaft (4) in which oil (49) of the oil circulation system (33) circulates.



21: 2024/01199. 22: 2024/02/07. 43: 2025/02/14
 51: C21D; C22C
 71: ARCELORMITTAL
 72: Lieven BRACKE, Dorien DE KNIJF, Tom WATERSCHOOT, Ulrike LORENZ, Lode DUPREZ
54: HOT ROLLED AND STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF
 00: -

A hot rolled steel sheet having a composition comprising of the elements, $0.02\% \leq \text{Carbon} \leq 0.2\%$, $3\% \leq \text{Manganese} \leq 9\%$, $0.2\% \leq \text{Silicon} \leq 1.2\%$, $0.9\% \leq \text{Aluminum} \leq 2.5\%$, $0\% \leq \text{Phosphorus} \leq 0.03\%$, $0\% \leq \text{Sulfur} \leq 0.03\%$, $0\% \leq \text{Nitrogen} \leq 0.025\%$, $0\% \leq \text{Molybdenum} \leq 0.6\%$, $0\% \leq \text{Titanium} \leq 0.1\%$, $0.0001\% \leq \text{Boron} \leq 0.01\%$, $0\% \leq \text{Chromium} \leq 0.5\%$, $0\% \leq \text{Niobium} \leq 0.1\%$, $0\% \leq \text{Vanadium} \leq 0.15\%$, $0\% \leq \text{Nickel} \leq 1\%$, $0\% \leq \text{Copper} \leq 1\%$, $0\% \leq \text{Calcium} \leq 0.005\%$, $0\% \leq \text{Magnesium} \leq 0.0010\%$, the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel sheet comprising in area fraction, at least 60% of tempered martensite, 15% to 40% residual austenite, 0% to 10% polygonal ferrite, 0% to 5% of bainite, 0 to 15% of fresh martensite and 0% to 5% of carbides of Niobium, Titanium, Vanadium or Iron.

21: 2024/01325. 22: 2024/02/13. 43: 2025/02/14
 51: A61K; C07D
 71: TAIRX, INC.

72: Du-Shieng CHIEN, Yi-Wen CH
 33: US 31: 63/240,990 32: 2021-09-05
54: FORMULATIONS WITH ENHANCED SN-38 SOLUBILITY AND ORAL ABSORPTION
 00: -

Formulations with enhanced SN-38 solubility and oral absorption. In one embodiment, a formulation or a pharmaceutical composition comprises (a) 7-Ethyl-10-hydroxy-camptothecin (SN-38); and (b) a mixture of pharmaceutically acceptable excipients comprising (i) N-Methylpyrrolidone; and (ii) Vitamin E

TPGS or a copolymer, the copolymer being 50/50 poly(lactic-co-glycolic acid), or 75/25 poly(lactic-co-glycolic acid) (PLGA); with the provision that if the VitE TPGS is present, the mixture of the excipients further comprises a polymer selected from the group consisting of Hydroxypropyl cellulose, Hydroxypropyl methylcellulose, VP/VAc copolymer 60/40, poloxamer 407, and Lauroyl Macrogol-32 glycerides; wherein the pharmaceutical composition contains no water, is in a liquid or a gel form, and the SN-38 is dissolved in the mixture of the excipients without precipitation.

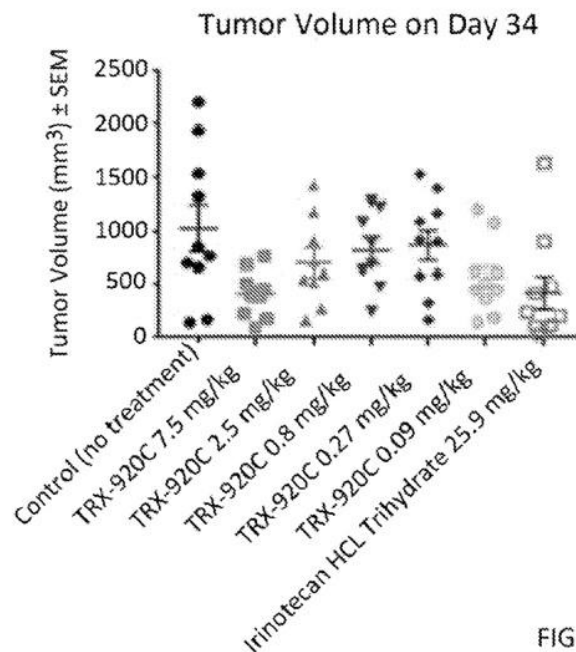


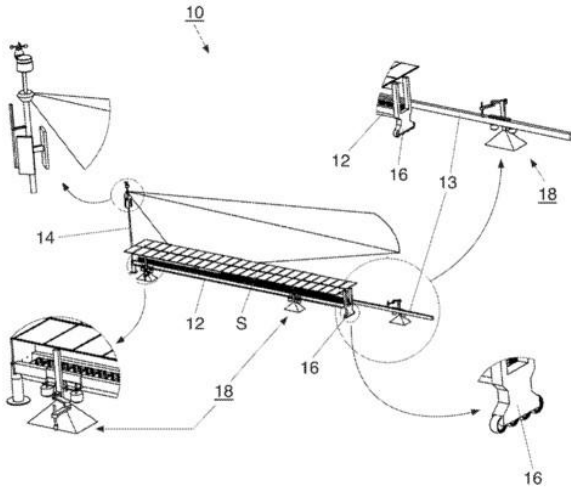
FIG. 7B

21: 2024/01357. 22: 2024/02/14. 43: 2025/02/27
 51: A01B
 71: AI.LAND GMBH

72: Josef FRANKO
 33: DE 31: 10 2021 120 341.4 32: 2021-08-04
54: ASSEMBLY AND METHOD FOR THE MANAGEMENT OF AN AGRICULTURAL AREA
 00: -

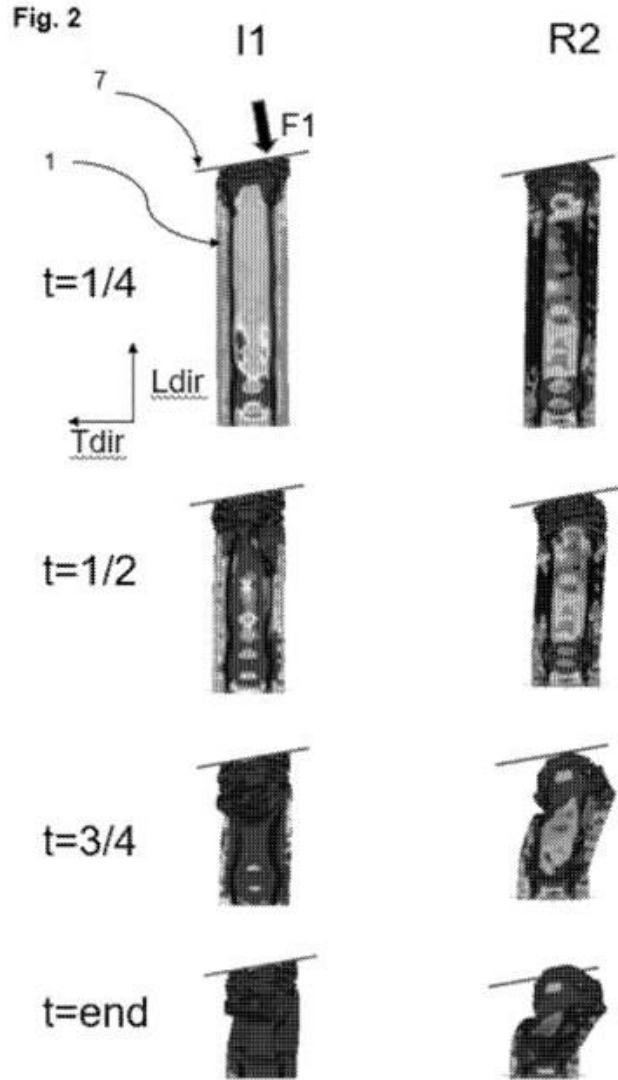
The invention relates to an assembly (10; 10') and a method for management of an agricultural area. The assembly (10; 10') comprises at least an elongated truss (12) and an associated chassis (16) with at least one wheel with which the truss (12) can be moved in a circular or linear manner over the usable area (N), and at least one field management device (18) which is attached to or provided on the truss (12) by means of a robotic arm. The assembly (10)

also comprises a plurality of crates (24) and a conveyor system provided on the truss (12) along its longitudinal extension, wherein at least one crate (24) is movable in a certain direction by the conveyor system (25) along the longitudinal extension of the truss (12) and can be brought to a predetermined position, in particular adjacent to a field management device (18, 19).



21: 2024/01358. 22: 2024/02/14. 43: 2025/02/14
 51: C21D; C22C
 71: ARCELORMITTAL
 72: Arnaud COCU, Alice DUMONT
 33: IB 31: PCT/IB2021/058364 32: 2021-09-14
54: HIGH STRENGTH HIGH SLENDERNESS PART HAVING EXCELLENT ENERGY ABSORPTION
 00: -

The present invention relates to a high strength, high slenderness structural part having excellent energy absorption properties in the case of an impact. In particular, the present invention relates to a structural part for use in an automotive vehicle. The structural part has an ultimate tensile strength higher than 1000MPa, a yield strength to ultimate tensile strength ratio higher than 0,85, a bending angle normalized to 1,5mm thickness higher than 55° and a slenderness ratio higher than 10.



21: 2024/01471. 22: 2024/02/19. 43: 2025/02/27
 51: B28B; B28C; E04G; F16L; B33Y
 71: TECHNICKA UNIVERZITA V LIBERCI
 72: Petr ZELENY, Stanislav LUKAS, Iaroslav KOVALENKO, Andrii SHYNKARENKO, Michal MOUCKA, Petr KELLER, Radomir MENDRICKY, Martin SEVIC, Leos BERAN
54: A DEVICE FOR TRANSPORTING A CEMENT MIXTURE BETWEEN A PUMP OF THE CEMENT MIXTURE AND THE PLACE OF THE CEMENT MIXTURE CONSUMPTION
 00: -

The invention relates to a device for transporting cement mixture between a pump of the cement mixture and the place of consumption of the cement mixture, which comprises a transport pipeline of the cement mixture. At least a part of the transport pipeline comprises at least one pipeline section with

variable volume adapted to regulate the flow of the cement mixture through the transport pipeline depending on the current demand for the cement mixture in the place of consumption of the cement mixture. The pipeline section with variable internal volume comprises at least one telescopic pipe element being provided with a regulator of the relative axial position of the parts of the telescopic pipe element.

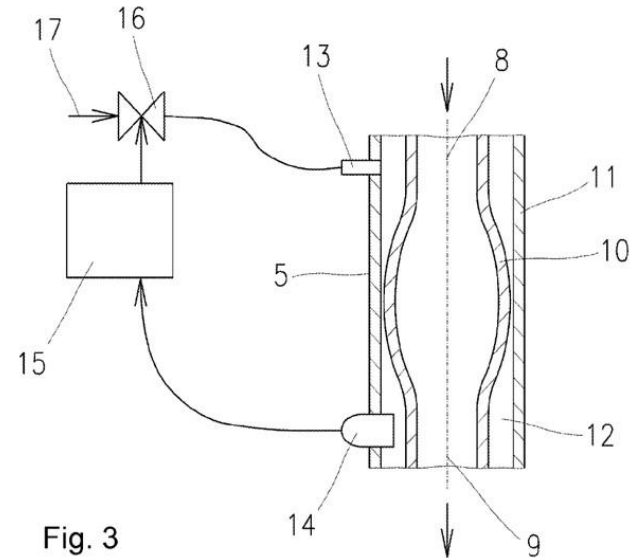
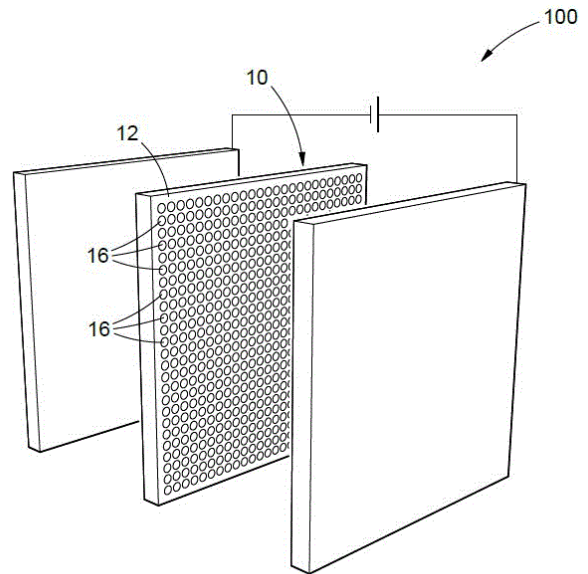


Fig. 3



21: 2024/01575. 22: 2024/02/22. 43: 2025/02/26
51: H02M

71: JINGTSING TECHNOLOGY LTD

72: GUAN, Eryong, JI, Ruiqiu

33: CN 31: 202111375171.9 32: 2021-11-19

33: CN 31: 202122855326.0 32: 2021-11-19

54: BIDIRECTIONAL ENERGY STORAGE CONVERTER

00: -

Provided in the present application is a bidirectional energy storage converter, comprising: at least one bridge arm (100), wherein each bridge arm (100) comprising a first switch assembly (110), a second switch assembly (120), a third switch assembly (130) and a fourth switch assembly (140), which are sequentially connected in series, the first switch assembly (110) is connected to a positive electrode of a direct-current busbar and a third end of a resistor assembly (170), and the fourth switch assembly (140) is connected to a negative electrode of the direct-current busbar and a fourth end of the resistor assembly (170); and one end of a branch, which is formed by connecting a fifth switch assembly (150) and a sixth switch assembly (160) in series, is connected to a connection point of the first switch assembly (110) and the second switch assembly (120), and a first end of the resistor assembly (170), and another end thereof is connected to a connection point of the third switch assembly (130) and the fourth switch assembly (140), and a second end of the resistor assembly (170). Since a fifth switch assembly (150) and a sixth

21: 2024/01522. 22: 2024/02/21. 43: 2025/02/26
51: H01M

71: North-West University

72: BESSARABOV, Dmitri, Georgievich, DU PREEZ, Stephanus, Petrus

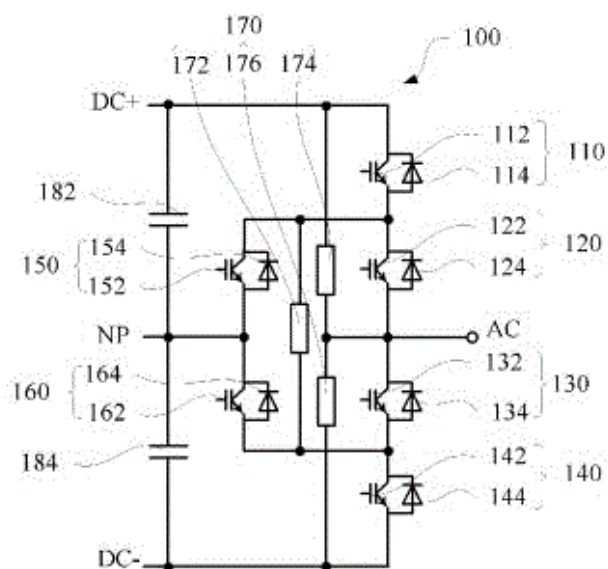
33: ZA 31: 2022/09539 32: 2023-02-24

54: ELECTROCHEMICAL CELL

00: -

The invention provides catalyst-coated membranes and/or a porous transport layers, for use in electrochemical cells in which the anode and cathode catalysts are deposited on the catalyst-coated membranes and/or porous transport layers such that an active coating area or geometrical pattern of the anode and cathode catalysts differs compared to one another. The invention further extends to electrochemical cells incorporating said catalyst-coated membranes and/or porous transport layers.

switch assembly (160) each comprising a diode and a switch tube, which are connected in parallel, the effect of shunting currents flowing through the fifth switch assembly (150) and the sixth switch assembly (160) is achieved, such that the values of the currents flowing through the fifth switch assembly (150) and the sixth switch assembly (160) are relatively low, thereby avoiding the problem in the related art of the junction temperature of a clamping diode being high.



21: 2024/01715. 22: 2024/02/28. 43: 2025/03/03
 51: A61K; C07D; C07F; G01N; A61P
 71: INSTITUTO NACIONAL DE INVESTIGACIONES NUCLEARES

72: Guillermina FERRO-FLORES, Blanca Elí OCAMPO-GARCÍA, Myrna Alejandra LUNA-GUTIÉRREZ, Clara Leticia SANTOS-CUEVAS, Nallely Patricia JIMÉNEZ-MANCILLA, Erika Patricia AZORIN-VEGA

33: MX 31: MX/a/2021/005089 32: 2021-04-30

54: RADIOPHARMACEUTICALS BASED ON ((R)-1-((6-HYDRAZINYLNICOTINOYL)-DALANYL)PYRROLIDIN-2-YL)BORONIC ACID (HYNIC-IFAP) FOR DETECTING THE OVEREXPRESSION OF FIBROBLAST ACTIVATION PROTEIN

00: -

The invention relates to new radiopharmaceuticals that inhibit fibroblast activation protein (iFAP), which are based on the molecule ((R)-1-((6-hydrazinylnicotinoyl)-D-alanyl)pyrrolidin-2-yl)boronic acid (HYNIC-iFAP), wherein the nitrogens of the hydrazine of HYNIC act as chemical groups that

promote the interaction of the HYNIC- iFAP molecule with phenylalanine (Phe-350 and Phe-351), glutamic acid (Glu-203 and Glu-204) and serine (Ser-624) in the active centre of fibroblast activation protein (FAP), combining the conventional use of HYNIC as a chelating agent for the radiometal ^{99m}Tc, wherein ethylenediamine diacetic acid (EDDA) is used to complete the radiometal coordination sphere. The new ^{99m}Tc-EDDA/HYNIC-iFAP radiopharmaceutical (^{99m}Tc-HYNIC-iFAP) detects FAP expressed in the microenvironment of malignant epithelial tumours, with high in-vivo affinity, by means of SPECT molecular imaging techniques in nuclear medicine. The purpose of the invention is to provide a new specific SPECT radiopharmaceutical with high sensitivity for the detection of FAP protein expression in the tumour microenvironment, which is based on boroPro-type inhibitors (molecular-target radiopharmaceuticals).

21: 2024/01756. 22: 2024/02/29. 43: 2025/03/03

51: C21D; C22C; C23C

71: ARCELORMITTAL

72: Sebastian COBO, Alice DUMONT, Pascal DIETSCH, Stéphanie MICHAUT

33: IB 31: PCT/IB2021/058358 32: 2021-09-14

54: HIGH STRENGTH PRESS HARDENED STEEL PART AND METHOD OF MANUFACTURING THE SAME

00: -

The invention deals with a press hardened steel part having a composition comprising, by weight percent: C 0.2 - 0.34 %, Mn 0.50 – 1.24 %, Si 0.5 – 2 %, P ≤ 0.020 %, S ≤ 0.010 %, N ≤ 0.010 %, and comprising optionally one or more of the following elements: Al: ≤0.2 %, Cr ≤ 0.8 %, Nb ≤ 0.06 %, Ti ≤ 0.06 %, B ≤ 0.005% Mo ≤ 0.35% the remainder of the composition being iron and unavoidable impurities resulting from the smelting. The press hardened steel part has a microstructure comprising, in surface fraction, 95% or more of tempered martensite and 5% or less of bainite, austenite or ferrite.

21: 2024/01854. 22: 2024/03/05. 43: 2025/02/27

51: E03F; F16K

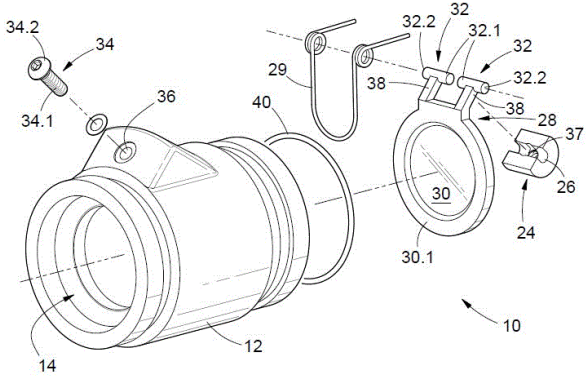
71: COMEC INDUSTRIES (PTY) LTD

72: MORETTI, Gian Mauro

33: ZA 31: 2023/05184 32: 2023-05-11

54: NON-RETURN VALVE

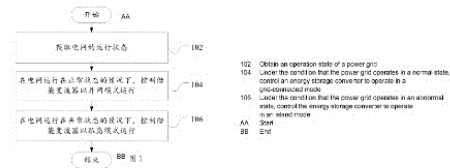
00: -
 This invention relates to a valve and particularly, but not exclusively, a swing-type non-return valve. The valve comprises a valve body having an inlet port, an outlet port, a valve cavity wherein a flow passage extends between the inlet port and the outlet port, a hanger seat located in the valve cavity above the inlet port, a valve seat/seal which surrounds the inlet port within the valve cavity, a hanger which is securable to the hanger seat, and a valve closure member comprising a closure disc and a pair of hinge pins which extends from the closure disc.



21: 2024/01933. 22: 2024/03/07. 43: 2025/02/26
 51: H02J
 71: JINGTSING TECHNOLOGY LTD
 72: GUAN, Eryong, JI, Ruiqiu
 33: CN 31: 202111413225.6 32: 2021-11-25
54: ENERGY STORAGE CONVERTER, CONTROL METHOD AND DEVICE THEREFOR, AND READABLE STORAGE MEDIUM
 00: -

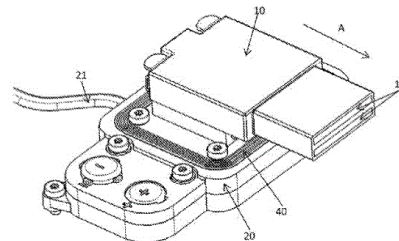
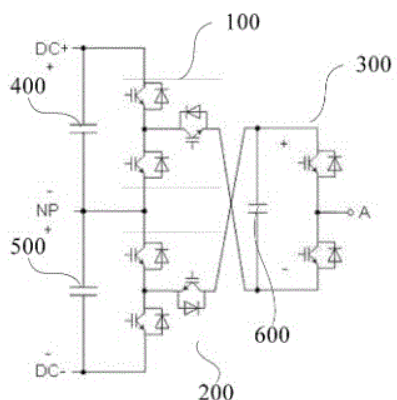
The present application provides an energy storage converter, a control method and device therefor, and a readable storage medium. The control method for the energy storage converter comprises: obtaining an operation state of a power grid; under the condition that the power grid operates in a normal state, controlling the energy storage converter to operate in a grid-connected mode; and under the condition that the power grid operates in an abnormal state, controlling the energy storage converter to operate in an island mode, wherein in the grid-connected mode, the energy storage converter uses active power and reactive power decoupling control, and in the island mode, the energy storage converter uses virtual magnetic flux control. In the control method, the operation state of

the power grid is obtained, and the energy storage converter is controlled to enter different control modes according to the operation state of the power grid, such that voltage and frequency support is quickly established locally, and reliable electric energy quality is provided for important loads and sensitive loads.



21: 2024/01934. 22: 2024/03/07. 43: 2025/02/26
 51: H02M
 71: JINGTSING TECHNOLOGY LTD
 72: GUAN, Eryong, WANG, Shien, JI, Ruiqiu
 33: CN 31: 202111675730.8 32: 2021-12-31
 33: CN 31: 202123421737.5 32: 2021-12-31
54: BIDIRECTIONAL ENERGY STORAGE CONVERTER AND ENERGY STORAGE SYSTEM

00: -
 The present application provides a bidirectional energy storage converter and an energy storage system. The bidirectional energy storage converter comprises: at least one bridge arm. Each bridge arm comprises: a first switching circuit, a first end of the first switching circuit being connected to a positive electrode of a direct-current busbar, and a second end of the first switching circuit being connected to a neutral point of the direct-current busbar; a second switching circuit, a first end of the second switching circuit being connected to the neutral point of the direct-current busbar, and a second end of the second switching circuit being connected to a negative electrode of the direct-current busbar; and a third switching circuit, a first end of the third switching circuit being connected to a third end of the second switching circuit, a second end of the third switching circuit being connected to a third end of the first switching circuit, and a third end of the third switching circuit being connected to an alternating-current busbar.



21: 2024/02461. 22: 2024/03/27. 43: 2025/02/26
51: H01R

71: CHANGCHUN JETTY AUTOMOTIVE
TECHNOLOGY CO., LTD.

72: WANG, Chao

33: CN 31: 202111167062.8 32: 2021-10-01

33: CN 31: 202122400673.4 32: 2021-10-01

**54: CONNECTING MECHANISM, ELECTRICAL
ENERGY TRANSMISSION DEVICE AND MOTOR
VEHICLE**

00: -

Provided in the present invention are a connecting mechanism, an electrical energy transmission device and a motor vehicle. The connecting mechanism comprises a male-end connecting mechanism and a female-end connecting mechanism, wherein the male-end connecting mechanism comprises flat belts, flat terminals, and a male-end shell connected to the flat belts and the flat terminals; the female-end connecting mechanism comprises plug-in terminals, and a female-end shell connected to the plug-in terminals; and the male-end connecting mechanism and the female-end connecting mechanism are electrically connected by means of the flat terminals and the plug-in terminals, and the male-end shell is assembled and connected to the female-end shell to form the connecting mechanism. The flat belts are arranged in a stacked manner, and are configured with an appropriate spacing therebetween, which can effectively reduce electromagnetic interference to the other parts after the flat belts are powered on, such that a high-voltage charging wire harness shielding layer structure can be omitted, thereby achieving the aims of reducing the cost and decreasing the weight of the connecting mechanism.

21: 2024/02609. 22: 2024/04/04. 43: 2025/02/26
51: B01F; C02F

71: SHANGHAI ACADEMY OF AGRICULTURAL
SCIENCES

72: HUANG, Weiwei, ZHOU, Wenzong, LV, Weiwei,
YANG, Hang, YUAN, Quan, LIU, Yaqin

**54: METHOD FOR IMPROVING POLLUTANT
REMOVAL RATE AND/OR CONTROLLING
MEMBRANE FOULING IN AQUACULTURE
WASTEWATER**

00: -

The present invention relates to a method for improving pollutant removal rate and/or controlling membrane fouling in aquaculture wastewater, which uses thermal activation to activate persulfate or uses thermal activation to activate persulfate combined with coagulation to treat aquaculture wastewater by using residual heat of a facility greenhouse. The method comprises steps: adding persulfate into aquaculture wastewater, and using thermal activation to activate persulfate by using residual heat of the facility greenhouse; adding coagulant to pre-oxidized aquaculture wastewater, then stirring and precipitating; and, filtering aquaculture water after coagulated and precipitated by an ultrafiltration membrane. Organic pollutants can be effectively oxidizes and degrades without adverse effects on subsequent membrane treatment. The method can make full use of residual heat energy of the greenhouse and reduce the waste of resources, while the treated aquaculture wastewater can also be reused.

21: 2024/02856. 22: 2024/04/12. 43: 2025/02/26
51: G01D; G01N; G01S; G06K; H04W

71: SHANXI QUAN'AN NEW TECHNOLOGY
DEVELOPMENT CO., LTD

72: GUO, Chunping, GUO, Xiaopeng

33: CN 31: 202111213708.1 32: 2021-10-19

**54: REGULATION VIOLATION BEHAVIOR
IDENTIFICATION METHOD AND INTELLIGENT**

ANTI-REGULATION VIOLATION SENSOR SYSTEM

00: -

The present invention relates to a regulation violation behavior identification method and an intelligent anti-regulation violation sensor system. In the present invention, dangerous source state information, operator regulation violation behavior action information, position and environment identification system information and other information are inputted into the intelligent anti-regulation violation sensor system, processed by a microprocessor and then transmitted to a 5G information converter, the 5G information converter then transmits the information to an anti-regulation violation cloud computing center, and the center is pre-installed with regulation violation behavior identification and processing software; the software comprises a regulation violation behavior identification algorithm, and the algorithm can determine regulation violation behavior types; according to the regulation violation behavior types, an execution mechanism is commanded to act, so that an alarm is given or a dangerous source is cut off. The intelligent anti-regulation violation sensor system comprises a lock mechanism regulation violation behavior identification system, a non-lock mechanism regulation violation behavior identification system, the 5G information converter, a computer or mobile phone terminal, the anti-regulation violation cloud computing center, an electric lock mechanism system, an identity identification system, an auxiliary variable E identification system, the microprocessor, a position and environment identification system, and a dangerous source information acquisition system.

21: 2024/02857. 22: 2024/04/12. 43: 2025/02/27

51: A61K; C07K; A61P

71: BIOSION INC.

72: CHEN, Mingjiu, PENG, Zeyu

33: CN 31: PCT/CN2021/124767 32: 2021-10-19

54: ANTIBODIES BINDING CLDN18.2 AND USES THEREOF

00: -

Provided is an isolated monoclonal antibody that specifically binds human CLDN18.2, or the antigen-binding portion thereof. A nucleic acid molecule encoding the antibody or the antigen-binding portion

thereof, an expression vector, a host cell and a method for expressing the antibody or the antigen-binding portion thereof are also provided. Further provided are an antibody-drug conjugate and a pharmaceutical composition comprising the antibody or the antigen-binding portion thereof, as well as a treatment method using the anti-CLDN 18.2 antibody or the antigen-binding portion thereof.

21: 2024/02858. 22: 2024/04/12. 43: 2025/02/26

51: H01Q

71: ZTE CORPORATION

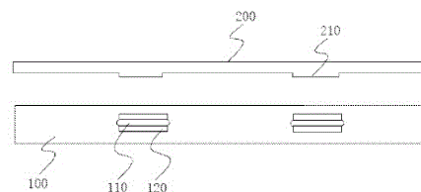
72: XU, Weiming, CHEN, Jie, YANG, Weiwei, WANG, Feng

33: CN 31: 202111066841.9 32: 2021-09-13

54: ANTENNA STRUCTURE AND MANUFACTURING METHOD THEREFOR

00: -

An antenna structure and a manufacturing method therefor. The antenna structure comprises a feed power distribution panel (100) and an isolating bar (200), wherein the feed power distribution panel (100) is provided with slots (110); inner walls of the slots (110) are metalized; pads (120) are arranged on two sides of the slots (110); and the isolating bar (200) is provided with pins (210) used for being inserted into the slots (110), and the isolating bar (200) is welded to the feed power distribution panel (100) by means of the pads (120) and on the basis of a through-hole reflow process. On this basis, in the present application, the feed power distribution panel (100) is provided with the slots (110); the inner walls of the slots (110) are metalized; the pads (120) are arranged on the two sides of the slots (110); during welding, the pins (210) of the isolating bar (200) are first inserted into the slots (110), and the isolating bar (200) is then welded to the feed power distribution panel (100) by means of the pads (120) and on the basis of the through-hole reflow process.



21: 2024/02869. 22: 2024/04/12. 43: 2025/02/04

51: F23G; F23J

71: HUADIAN ELECTRIC POWER RESEARCH INSTITUTE CO., LTD.

72: XUE, Zhipeng, XU, Junfeng, HE, Sheng

33: CN 31: 202310991422.9 32: 2023-08-08

54: COUPLING SYSTEM OF BIOMASS GASIFICATION AND WASTE INCINERATION

00: -

Disclosed is a coupling system of biomass gasification and waste incineration, which relates to the technical field of waste incineration. A carbon pipeline is communicated between a biomass carbon outlet of a circulating fluidized bed gasifier and an activated carbon injection port of a waste incineration assembly. The activated carbon generated by reaction in the circulating fluidized bed gasifier is sent to the activated carbon injection port through the carbon pipeline to capture harmful substances containing heavy metals and dioxins in flue gas generated by the waste incineration assembly. According to the present application, the activated carbon generated by the circulating fluidized bed gasifier is supplied to the waste incineration assembly, and a mutual coupling between the circulating fluidized bed gasifier and the waste incineration assembly is thereby realized, thus reducing the amount of the activated carbon additionally supplied to the waste incineration assembly. Further, it is unnecessary to separately collect and store the activated carbon generated by the circulating fluidized bed gasifier, which can effectively reduce the operating cost.

21: 2024/03208. 22: 2024/04/25. 43: 2025/02/26

51: F16D

71: FIMBINGER, Johann

72: FIMBINGER, Johann

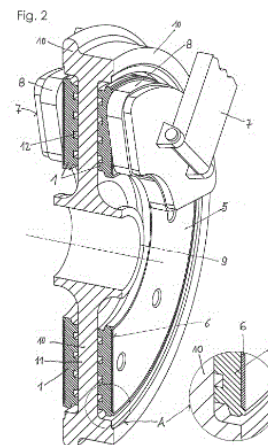
33: DE 31: 10 2021 130 045.2 32: 2021-11-17

54: FRICTION BRAKE, ESPECIALLY FOR MOTOR VEHICLES

00: -

A friction brake, especially for motor vehicles such as road vehicles, rail vehicles and utility vehicles, comprising a friction brake body, especially a grey iron brake disk, the friction surface of which has been provided with an antiwear layer of an iron alloy that has been applied to the friction surface by thermal spraying or deposition welding, especially by laser deposition welding, comprises, as alloy constituents, predominantly iron (Fe) as residual constituent, and also carbon (C), vanadium (V), and

optionally chromium (Cr) and/or niobium (Nb) and/or molybdenum (Mo) and/or tungsten carbide (WC).



21: 2024/03908. 22: 2024/05/20. 43: 2025/03/03

51: A61G

71: SHANGHAI UNIVERSITY OF MEDICINE AND HEALTH SCIENCES

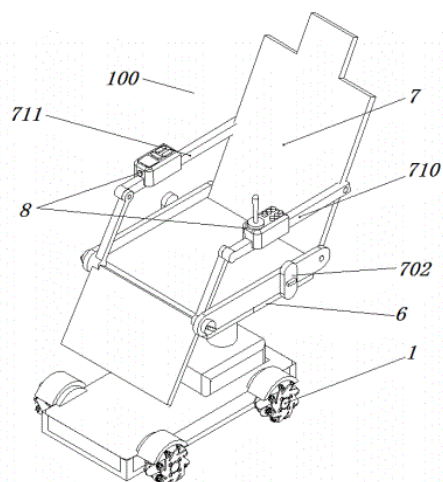
72: ZHAO, Wenlong, WU, Tao, ZHOU, Liang, GUO, Jiachen, GUO, Jingzhen, BI, Zhuoran

33: CN 31: 202311730932.7 32: 2023-12-15

54: INTELLIGENT ELECTRIC WHEELCHAIR AND AUTOMATIC CONTROL METHOD THEREFOR

00: -

Disclosed are an intelligent electric wheelchair and an automatic control method. The present invention allows a patient to autonomously reach desired destinations, realizing separation of a seat and a seat sliding rail, and then enabling the patient to easily transfer between the wheelchair and other positions, and the problems that an existing wheelchair cannot transfer the patient in a large range and the wheelchair is excessively dependent on the help of an attendant are solved.



21: 2024/03992. 22: 2024/05/22. 43: 2025/01/28
51: B05D; C08J; C09D

71: Akzo Nobel Coatings International B.V.

72: SMIT, Martijn Jelle

54: MULTI-LAYER COATING SYSTEM FOR POLYCARBONATE SUBSTRATES

00: -

The invention relates to a multi-layer coating system on a polycarbonate substrate, comprising: a primer layer applied directly to the substrate, wherein the primer layer is obtained from a primer coating composition, which comprises at least one polyaspartic acid ester and at least one polyisocyanate crosslinker, which primer coating composition does not comprise epoxy-functional alkoxy-silanes and is free from compounds with reactive OH groups, and at least one organic topcoat layer overlying the primer layer, which organic topcoat layer is obtained from a coating composition different from the primer composition.

21: 2024/04230. 22: 2024/05/30. 43: 2025/03/03
51: C21D

71: BEIJING RESEARCH INSTITUTE OF MECHANICAL & ELECTRICAL TECHNOLOGY CO., LTD.CAM

72: Xianjun LI, Decheng WANG, Wenliang ZHANG, Chao JIANG, Ping LUO

33: CN 31: 202310512661.1 32: 2023-05-08

54: SYSTEM AND METHOD FOR VARIABLE-DISTANCE VARIABLE-TRACE HIGH-UNIFORMITY QUENCHING

00: -

The present disclosure discloses a system for variable-distance variable-trace high-uniformity quenching and method. The system consists of a

liquid supply circulating device, a multi-ring spraying device, a roller transmission device and a closed supporting frame. The liquid supply circulating device comprises a storage tank, a power pump, a liquid collecting tank, a main pipeline, a liquid equalizer, automatic-controlled valves, shunt pipes, a reflux pump and a reflux pipe. The multi-ring spraying device comprises an intermediate transition pipe, a flow detector, a pressure detector, multi-zone multi-ring pipelines and universal liquid nozzles. The roller transmission device comprises a main body supporting frame, conveying roller rods, a driving motor and a position sensor. The closed supporting frame is of a door-shaped frame structure and comprises front and rear liftable doors and a rotatable access door. The present disclosure solves the problems of uneven quenching and cooling, great quenching distortion, uneven product performance and the like of the hemispherical or semi-ellipsoidal variable-distance variable-trace shell component, and realizes high uniformity and near-zero quenching distortion treatment of the variable-distance variable-trace component.

21: 2024/04288. 22: 2024/05/31. 43: 2025/01/28

51: F22B; F22D

71: General Electric Technology GmbH

72: MAYER, Ralph

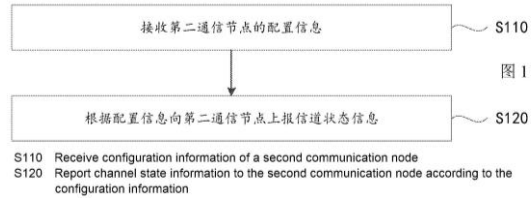
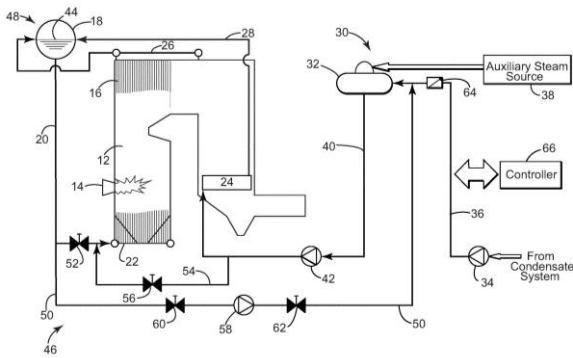
33: US 31: 17/560,587 32: 2021-12-23

54: SYSTEM AND METHOD FOR WARMKEEPING SUB-CRITICAL STEAM GENERATOR

00: -

A system (46,92) and method (68) for warmkeeping a steam generator (10) such as a sub-critical steam generator (10) is disclosed. Water extraction piping (50) extracts water from a component of one of the water fill circuits of the sub-critical steam generator (10). A deaerator heating system (30) having an inventory tank (32) of water mixes the extracted water with the water in the tank (32), and heats the mix of water to a predetermined temperature level to generate heated deaerated feedwater. Feedwater piping (40) forwards the heated deaerated feedwater at the predetermined temperature level from the deaerator heating system (30) to the water fill circuits of the sub-critical steam generator (10). The water extraction piping (50), the deaerator heating system (30) and the feedwater piping (40) operate cooperatively to warmkeep the water fill circuits in

accordance with the predetermined temperature level while the sub-critical steam generator (10) is in the unfired stand-by mode of operation.



21: 2024/04338. 22: 2024/06/03. 43: 2025/01/09
 51: H04B; H04L; H04W
 71: ZTE Corporation
 72: LI, Yong, WU, Hao, LU, Zhaohua, WANG, Yuxin
 33: CN 31: 202111301957.6 32: 2021-11-04
54: INFORMATION TRANSMISSION METHOD, DEVICE, AND STORAGE MEDIUM
 00: -

The present application provides a data transmission method, a device, and a storage medium. The information transmission method applied to a first communication node comprises: receiving configuration information of a second communication node; and reporting channel state information to the second communication node according to the configuration information, wherein the channel state information comprises a precoding matrix indicator; the precoding matrix indicator comprises a strongest coefficient indicator; a precoding matrix corresponding to the precoding matrix indicator is formed by combining first coefficients with a first set of vectors, or a precoding matrix corresponding to the precoding matrix indicator is formed by combining first coefficients with a first set of vectors and a second set of vectors; and the strongest coefficient indicator is used for indicating the index number of the strongest coefficient in the first coefficients.

21: 2024/04365. 22: 2024/06/04. 43: 2025/01/13
 51: C25B
 71: thyssenkrupp nucera AG & Co. KGaA
 72: AYRAK, Emre, TOROS, Peter, KLINK, Stefan, BRINKMANN, Jonas
 33: EP(DE) 31: 21217263.9 32: 2021-12-23
54: SEALED ELECTROLYSIS CELL
 00: -

Electrolysis cell comprising two elements (2, 3), each comprising a central portion (4, 5) defining an anode chamber (6) and a cathode chamber (7), respectively, and a circumferential flange portion (8, 9), a sheet-like separator (12) with a circumferential edge (13), the separator (12) being disposed between the two elements (2, 3) and separating the anode and cathode chambers (6, 7), and a sealing arrangement (14) comprising at least a first (15) and a second gasket (16), wherein the sealing arrangement (14) is disposed in a gap (17) between the flange portions (8, 9), wherein the first gasket (15) is an inner gasket positioned in a portion of the gap (17) adjacent to the chambers (6, 7) and the second gasket (16) is an outer gasket positioned in a portion of the gap (17) distant to the chambers (6, 7), wherein the gaskets (15, 16) are spaced apart from each other in the gap (17) at an interval (I), and wherein the circumferential edge (13) of the separator (12) is located radially between a midpoint (M1) of the first gasket (15) and a midpoint (M2) of the second gasket (16).

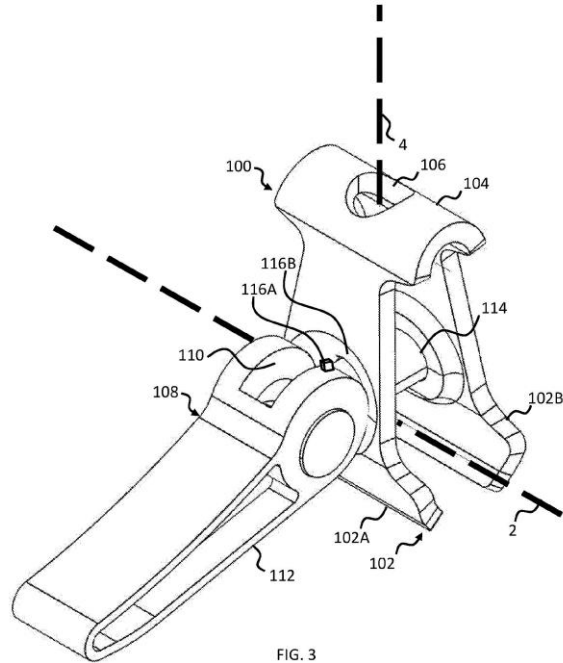
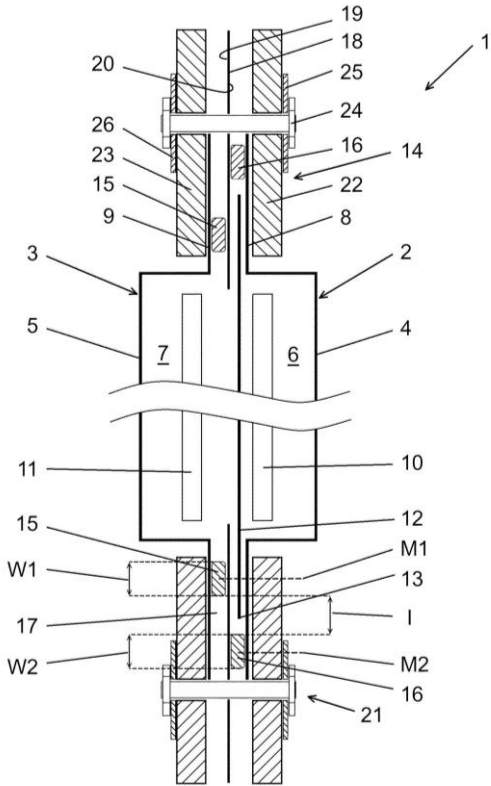


FIG. 3

21: 2024/04450. 22: 2024/06/07. 43: 2025/01/09
 51: B60M
 71: Gripple Limited
 72: BARNES, Samuel
 33: GB 31: 2117893.4 32: 2021-12-10
54: OVERHEAD LINE CLAMP

00: -
 An overhead line clamp (100) securable to an overhead line (2), the overhead line clamp (100) comprising: pincer members (102); a hinge (104) to enable the pincer members (102) to actuate between an open position and a closed position, wherein at the closed position the pincer members (102) are configured to secure the overhead line (2); and a hand-operable latch (108) configured to actuate the pincer members (102) between the open position and the closed position.

21: 2024/04489. 22: 2024/06/10. 43: 2025/01/13
 51: A61C
 71: Universite de Bordeaux, Centre Hospitalier
 Universitaire de Bordeaux
 72: POISSON, Philippe
 33: FR 31: 2113793 32: 2021-12-17

54: INTER-ARCH COMPONENT (IAC), USE OF SUCH AN IAC, AND METHOD FOR PRODUCING AN INTRAORAL PROTECTOR (IOP) WITH SUCH AN IAC

00: -
 The invention relates to an inter-arch component comprising a body (10) which has a U-shaped plate (11), the plate (11) having an upper face (11c) configured to bear against an upper dental arch of a wearer, and a lower face (11d) configured to be oriented towards a lower dental arch of the wearer, and the body (10) additionally having a graduated rule (17) which extends transversely to the plate (11) and which is configured to measure a distance between the upper dental arch and the lower dental arch. It also relates to a use of such an inter-arch component and to a method for producing an intraoral protector (IOP) having such an inter-arch component.

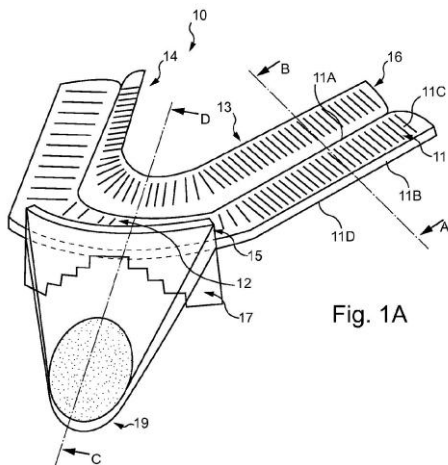


Fig. 1A

21: 2024/04589. 22: 2024/06/13. 43: 2025/01/22
 51: A45F; E04H
 71: ANDRE JAQUES COETZEE, LOUISE COETZEE
 72: ANDRE JAQUES COETZEE, LOUISE COETZEE
 33: ZA 31: 2023/06622 32: 2023-06-28
54: TENT FLAP WEIGHT

00: -
 The invention provides a tent flap weight that equally weights down a tent flap for the length of the weight and is easy to assemble and disassemble for transport. The tent flap weight comprises a hollow, collapsible tubular body terminating at opposite ends thereof in two end walls, and at least one sealable opening extending into the hollow tubular body through which the hollow body is removably filled with weighting material.

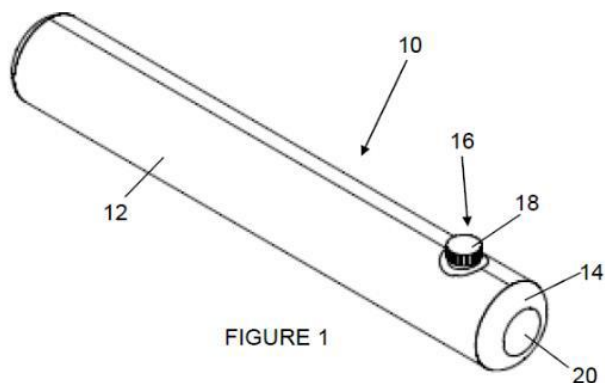


FIGURE 1

21: 2024/04611. 22: 2024/06/13. 43: 2025/01/13
 51: A61N; H02N
 71: SIORES, Elias
 72: SIORES, Elias

33: GR 31: 20210100876 32: 2021-12-14
54: CONVERTER FOR POWER SUPPLY OF MEDICAL DEVICES

00: -
 A convertor (100) for converting the mechanical energy of the movement of the heart muscle, or of other moving organs, into electrical energy comprising two flexible blocks (7, 7'), wherein a first and a second end of a plurality of extendable elements (1) are immovably connected on the first and on the second flexible blocks (7, 7'). Each of the extendable elements (1) comprises a layer of triboelectric material and a hollow portion (6). Each of the plurality of the extendable elements (1) comprises a triboelectric spiral structure (3) that is mounted within the hollow portion (6), wherein the triboelectric spiral structure (3) comprises a plurality of twisted elongated elements (4) that are movable within the hollow portion (6) of the extendable elements (1). Each of the twisted elongated elements (4) has the shape of a rod and each of the twisted elongated elements (4) comprises a triboelectric material layer (2) and a conducting material layer (12).

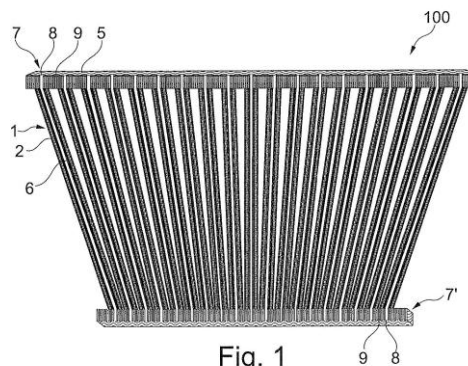
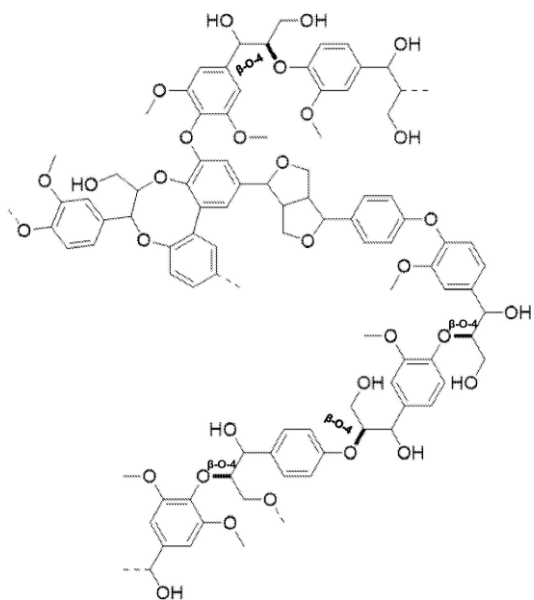


Fig. 1

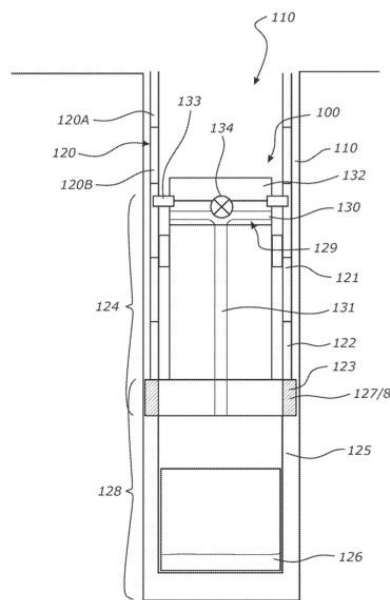
21: 2024/04617. 22: 2024/06/13. 43: 2025/01/13
 51: C03C; C08L; C09J; D04H; E04B
 71: Saint-Gobain Isover
 72: SOISSON, Arnaud
 33: FR 31: 2113776 32: 2021-12-17
54: METHOD FOR PRODUCING INSULATION PRODUCTS BASED ON MINERAL FIBRES OR ORGANIC FIBRES OF NATURAL ORIGIN

00: -
 The present invention relates to a method for producing an insulation product comprising mineral fibres or organic fibres of natural origin bound by an organic binder, the method comprising the following

steps: (a) applying a bonding composition to the mineral fibres or organic fibres of natural origin; (b) forming an assembly of said mineral fibres or organic fibres of natural origin; (c) heating the assembly of the mineral fibres or organic fibres of natural origin until the bonding composition has cured, characterised in that the bonding composition comprises: at least one lignin, which is potentially oxidised, and at least one non-polymeric polycarboxylic organic acid. The invention also relates to the insulating products that can be obtained by means of such a method.



lodgement assembly comprising: a latch that is free to deploy when the tool reaches the installed position, and a valve with a valve actuator with movement interdependent on and/or constrained by the latch, wherein during installation: if the tool reaches the installed position, the latch is free to deploy and the valve actuator is free to move into an operational position that permits fluid flow in the fluid path, if the tool does not reach the installed position, the latch is not free to deploy and constrains the tethered valve actuator in a closed position that prevents fluid flow in the fluid path.



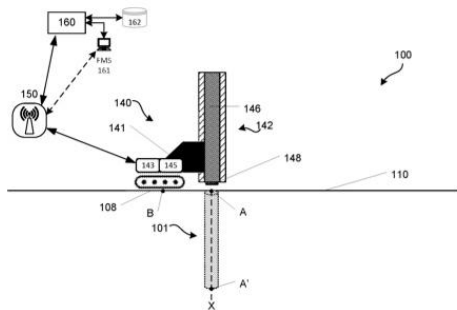
21: 2024/04656. 22: 2024/06/14. 43: 2025/02/12
 51: E21B
 71: IMDEX TECHNOLOGIES PTY LTD
 72: BEACH, Andrew Phillip, HOLLIDAY, Matt
 33: AU 31: 2021904077 32: 2021-12-15
54: DEPLOYMENT TOOL AND METHOD

00: -
 A tool for installation in a drill string for delivering, retrieving, activating and/or deactivating one or more downhole tools for performing one or more downhole functions with a drill string, the tool comprising: an outer body, a control shaft with at least one fluid path from the inside to the outside of the control shaft, a wireline coupling for connection to a wireline, and a lodgement assembly that is deployable to secure the tool within the drill string and/or bottom hole assembly and allow fluid flow in the fluid path when the tool has reached an installed position, the

21: 2024/04674. 22: 2024/06/14. 43: 2025/02/12
 51: E21B
 71: IMDEX TECHNOLOGIES PTY LTD
 72: KOPLAN, Chris, HAY, Wayne, WHITE, Matthew, BLAINE, Fred
 33: AU 31: 2021904223 32: 2021-12-23
54: DEPTH MEASUREMENT WITHIN A BOREHOLE

00: -
 A measurement device (MD) for measuring depth within a borehole when coupled to a drill string disposed within the borehole. The MD comprises a sensing component including, at least, a plurality of accelerometers configured to generate accelerometer data as the MD moves through the borehole. The MD further comprises a controller component configured to correct the accelerometer data generated by the sensing component by:

repeatedly, for each of a plurality of movement periods in which the MD moves within the borehole: altering the accelerometer data generated during the movement period to reduce errors associated with the movement of the MD, based on the accelerometer data generated in at least one of a first stationary period of the MD and a second stationary period of the MD, the first and second stationary periods occurring respectively before and after the movement period, wherein each of the plurality of movement periods corresponds to extraction of a portion of the drill string from the borehole. The controller component is also configured to generate, based on the corrected accelerometer data, one or more corresponding corrected depth measurement values of the MD in the borehole.



21: 2024/04713. 22: 2024/06/18. 43: 2025/01/13
51: E21D

71: MAN AND OH INVESTMENTS (PTY) LTD.

72: O'HAUGHEY, DEANE CONOR

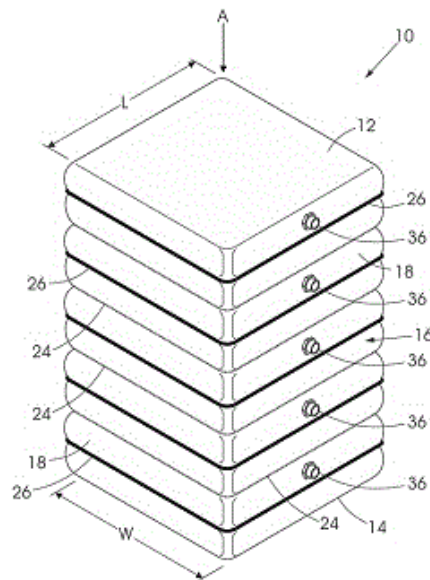
33: ZA 31: 2023/11261 32: 2023-12-07

54: YIELDING MINE SUPPORT BAG

00: -

This invention relates to a yielding mine support bag (10) for use between a hanging wall and a footwall in a mine working. The bag (10) is formed from flexible sheet material and includes an operatively upper wall (12), an operatively lower wall (14), and a side wall (16) which extends between the upper wall and the lower wall so that the side wall, the upper wall and the lower wall define an enclosed space within the bag. The side wall (16) has a non-circular shape when viewed from above. The bag (10) also includes at least one internal partition (20) formed from flexible sheet material, with each internal partition being connected to the side wall and extending across the enclosed space within the bag to divide this space into compartments arranged one

above the other, and at least one filler valve (36) is provided for allowing a settable material into the compartments. A plurality of yieldable steel reinforcement members (26) are provided. Each steel reinforcement member (26) has a non-circular shape when viewed from above, and is arranged, in use, to extend along the side wall (16) and to be spaced from the or each internal partition so as to provide lateral reinforcement for a compartment of the bag. Each steel reinforcement member (26) is arranged to deform under sufficient load, in use, towards or into a circular shape when viewed from above.



21: 2024/04719. 22: 2024/06/18. 43: 2025/03/03
51: B65D; C12H

71: STONE TREE INTERNATIONAL LIMITED

72: Paul Bertus HAYES, Timothy John BOND

33: ZA 31: 2021/10363 32: 2021-12-14

33: ZA 31: 2022/08186 32: 2022-07-22

54: METHOD AND MEANS FOR PROCESSING BEVERAGES

00: -

The invention discloses a method for processing including manufacturing and/or packaging and/or preserving beverages, which includes the step of adding a suitable plant material or plant material blend to a substrate within a vessel so as to mitigate or reduce or prevent the manifestation of a specific beverage impediment. The beverages are non-fermented, or at least partially fermented alcohol, or reductive fermented alcohol (where oxidization

during manufacture has been kept to a minimum), or at least partially de-alcoholised. The plant material or plant material blend functions as a biochemical active component and reserve pool (depot) within the beverage or vessel. The invention also discloses an arrangement for the processing and packaging of beverages.

21: 2024/04816. 22: 2024/06/20. 43: 2025/01/13
 51: F41G; G02F; H04W
 71: Bushnell Inc.
 72: PALKOWITSH, Gregory L., SIZEMORE, Michael A., TESFAYE, Yilak
 33: US 31: 18/212,348 32: 2023-06-21

54: LOCAL CONNECTED NETWORKS FOR OUTDOOR ACTIVITIES

00: -
 A system including a laser rangefinder determining a target distance; a riflescope comprising an adjustment mechanism for setting a target distance; and a notification device, producing a notification when the adjustment mechanism is set to a target distance corresponding to the target distance determined by the laser rangefinder.

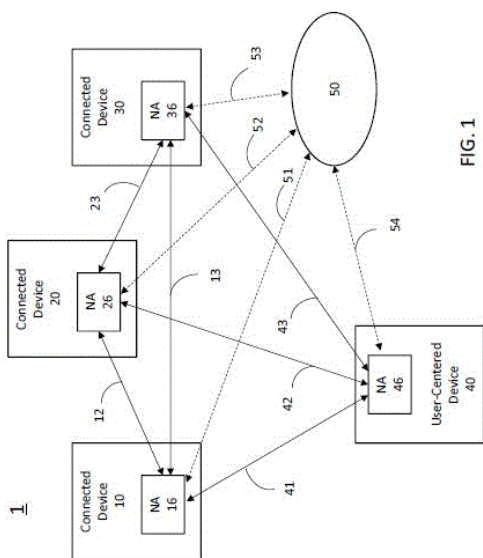
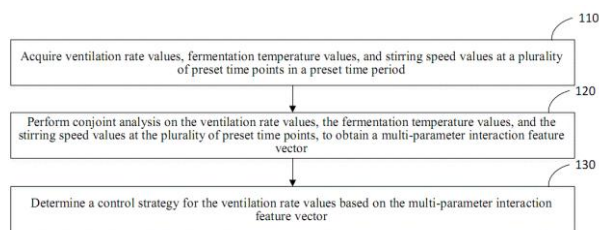


FIG. 1

21: 2024/04821. 22: 2024/06/20. 43: 2025/02/24
 51: C12P
 71: JIANGXI BAISHEN PHARMACEUTICAL CO., LTD.
 72: QIU, Guowang, ZHAO, Ming, WANG, Aicheng, HE, Yanyan, YIN, Shuxuan, ZENG, Zhibin
 33: CN 31: 2023111795340 32: 2023-09-13

54: AUTOMATIC FERMENTATION METHOD AND SYSTEM FOR GANODERMA LUCIDUM

00: -
 Disclosed are an automatic fermentation method and system for ganoderma lucidum. Ventilation rate values, fermentation temperature values, and stirring speed values at a plurality of preset time points in a preset time period are acquired; the ventilation rate values, the fermentation temperature values, and the stirring speed values at the plurality of preset time points are subjected to conjoint analysis, to obtain a multi-parameter interaction feature vector; and a control strategy for the ventilation rate values is determined based on the multi-parameter interaction feature vector. Therefore, a synergistic relationship among a ventilation rate, a fermentation temperature, and a stirring speed can be extracted, so as to intelligently and adaptively control the ventilation rate based on synergistic information.

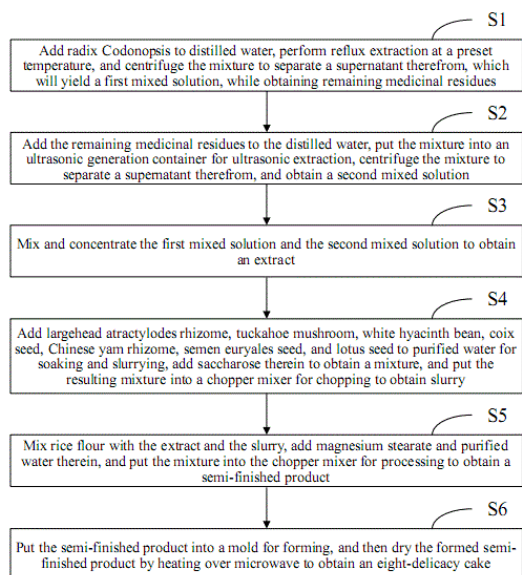


21: 2024/04822. 22: 2024/06/20. 43: 2025/02/24
 51: A23L
 71: JIANGXI BAISHEN PHARMACEUTICAL CO., LTD.
 72: XIE, Liang, ZHOU, Xiaosong, TANG, Yan, PENG, Fudong, LIN, Fanzhen, ZHANG, Yujun
 33: CN 31: 2023109945655 32: 2023-08-09

54: AUTOMATED PRODUCTION METHOD AND SYSTEM OF SPLEEN-TONIFYING EIGHT-DELICACY CAKE

00: -
 The present application discloses an automated production method and system of a spleen-tonifying eight-delicacy cake. A semi-finished product is dried by heating over microwave, the real-time variation in the moisture content of the semi-finished product is monitored based on a machine vision technology to stop the drying process in due time. Thus, the drying process may be stopped in due time based on the real-time variation condition of the moisture content of a cake, so that the moisture content of an eight-delicacy cake product may be controlled within a

present range, and the quality consistency of the produced eight-delicacy cake product is improved.



21: 2024/04823. 22: 2024/06/20. 43: 2025/02/24
51: A61K

71: JIANGXI BAISHEN PHARMACEUTICAL CO., LTD.

72: TAN, Lingzhi, CAI, Liang, PENG, Shaoping, ZHANG, Qi, ZHANG, Haisheng, PENG, Guohong

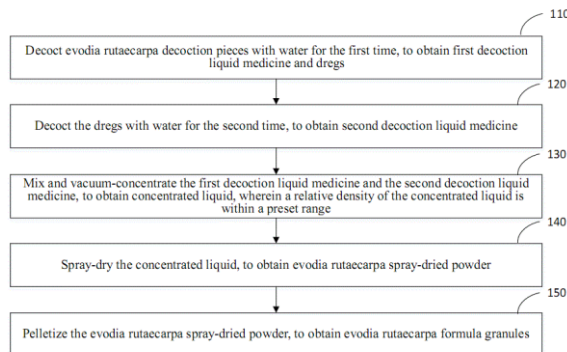
33: CN 31: 2023114903690 32: 2023-11-10

54: PREPARATION METHOD AND SYSTEM FOR EVODIA RUTAECARPA FORMULA GRANULAR PREPARATION

00: -

Disclosed are a preparation method and system for an evodiarutaecarpa formula granular preparation. The method includes: decocting evodiarutaecarpa decoction pieces with water for the first time, to obtain first decoction liquid medicine and dregs; decocting the dregs with water for the second time, to obtain second decoction liquid medicine; mixing and vacuum-concentrating the first decoction liquid medicine and the second decoction liquid medicine, to obtain concentrated liquid, wherein a relative density of the concentrated liquid is within a preset range; spray-drying the concentrated liquid, to obtain evodiarutaecarpa spray-dried powder; and pelletizing the evodiarutaecarpa spray-dried powder, to obtain evodiarutaecarpa formula granules. Therefore, traditional Chinese medicinal materials can be monitored, tracked and traced throughout the whole process and Chinese medicinal formula

granules can be detected, evaluated and fed back online in combination with an artificial intelligence technology, thereby improving quality safety and traceability.



21: 2024/04825. 22: 2024/06/20. 43: 2025/03/03
51: B32B; C21D

71: ARCELORMITTAL

72: Clément PHILIPPOT, Doriane SERRA, Hubert SALMON LEGAGNEUR, David DUSSAUSOIS

33: IB 31: PCT/IB2023/056827 32: 2023-06-30

54: CRACK-CONTAINING HOT-STAMPED COATED STEEL PART WITH EXCELLENT SPOT-WELDABILITY AND EXCELLENT PAINTING ADHESION

00: -

A hot-stamped coated steel part comprising a steel substrate and an aluminum alloy coating comprising, proceeding from steel substrate outwards, an interdiffusion layer and an outer layer, the total thickness of the coating eCoating and the thickness of the interdiffusion layer eIDL satisfy the following condition: $40 \leq Epc \leq 80$ with Formula 1 The hot-stamped coated steel part comprises an undeformed portion having a thickness ePflat from 0.6 mm to 3.5 mm, and at least one deformed portion. A lineic density of cracks dC in the coating in the undeformed portion is higher than or equal to a minimum lineic density of cracks dCmin(ePflat) defined as: Formula 2

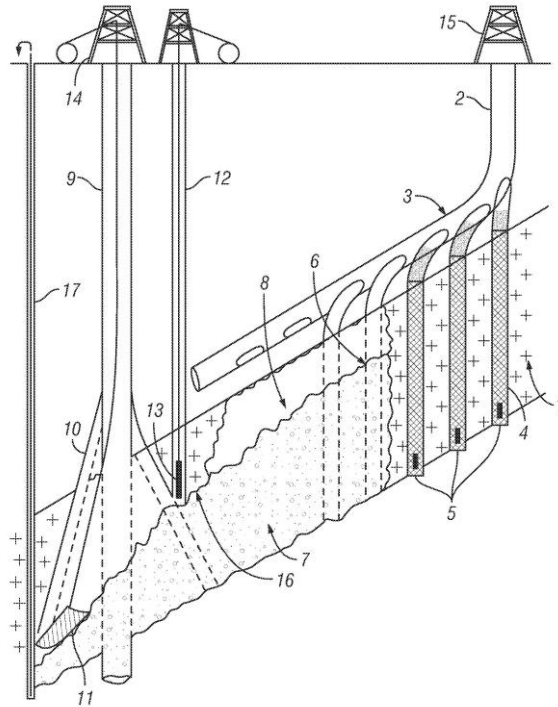
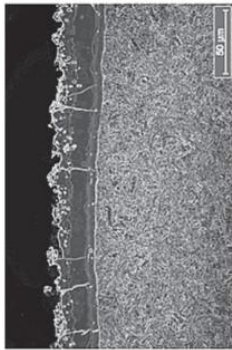
Formula 1:

$$E_{pc} = \sqrt{\left(\frac{33.3 - e_{IDL}}{0.9} + e_{IDL} - e_{coating}\right)^2 - 148(e_{IDL} - e_{coating})} - \left(\frac{33.3 - e_{IDL}}{0.9} + e_{IDL} - e_{coating}\right)$$

Formula 2:

$$dC_{min}(e_{pflat}) = 15.5 + 91 * e^{-7.44 - 2.88 * \arctan(5.49 * (e_{pflat} - 1.71))} - 106.5 * e^{-8.62 - 3.34 * \arctan(5.49 * (e_{pflat} - 1.71))}$$

FIG. 2



21: 2024/04911. 22: 2024/06/21. 43: 2025/01/09
 51: E21B; E21C; F24D
 71: PALMER, Daniel, B.
 72: PALMER, Daniel B.
 33: US 31: 63/293,057 32: 2021-12-22

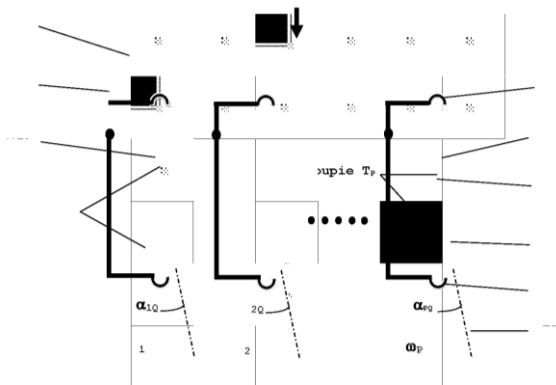
54: UNDERGROUND MINING METHODS VIA BOREHOLES AND MULTILATERAL BLAST-HOLES

00: -
 A method for underground mining in a rock body include drilling one or more service boreholes from at least one surface location into a subsurface rock body. A plurality of multilateral blast holes is drilled, branching from at least one of the one or more service boreholes into the subsurface rock body. The plurality of multilateral blast holes are each loaded with one or more explosive charges and one or more detonators. The one or more explosive charges and the one or more detonators are inserted from surface. The one or more explosive charges is detonated wirelessly to fragment the subsurface ore body. Fragmented rock is extracted via the one or more service boreholes, to surface.

21: 2024/04914. 22: 2024/06/21. 43: 2025/01/02
 51: B05B
 71: GANSHOF VAN DER MEERSCH, Nicolas, RAISSI, Kaddour
 72: GANSHOF VAN DER MEERSCH, Nicolas, RAISSI, Kaddour
 33: GB 31: 2118899.0 32: 2021-12-23
54: A DEVICE FOR DELIVERING AN ORBITAL FLUID JET

00: -
 1A device (1) for delivering an orbital fluid jet, comprising a body comprising a pressure chamber (3) provided with a fluid inlet and a fluid outlet (7), a rotor (1) having a top, a bottom, a rotational axis (15), and a fluid channel (CPQ) having a fluid inlet (EP) located on the top of the rotor on the axis (15) for receipt of fluid from the fluid outlet (7) of the body, an outlet (SPQ) located on the bottom of the rotor (1) spaced from the axis (15), and a helical channel providing fluid communication between the inlet and exit configured to cause the rotor to rotate about the axis (15) when fluid is forced through the channel, and a mounting for rotatably mounting the rotor (1). The mounting is disposed within the pressure chamber (3), and the rotor(1) comprises an axle (10) that extends through the fluid outlet (7) of the pressure chamber (3), wherein the axle is suspended from the mounting for rotation relative to

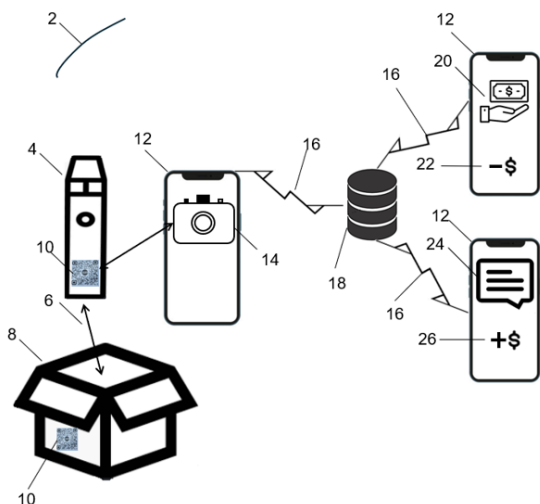
the mounting about the rotational axis (15). The mounting comprises a socket (13) with a central aperture (14), and in which the axle (10) extends through the central aperture and comprises a ball (11) configured to nest in the socket (13) for rotation of the ball and axle relative to the socket.



21: 2024/04918. 22: 2024/06/24. 43: 2025/01/02
51: G06Q

71: WV SQUARED (PTY) LTD
72: VERCUEIL, Ryan, VAREJES, Trent, WHITTAKER, Kevin
54: A VAPING DEVICE FOR DISPLAYING PROMOTIONAL CONTENT

00: -
The present invention relates to a vaping device or an object which is capable of displaying a unique code to a user that can be redeemed for a redeemable product.



21: 2024/04938. 22: 2024/06/24. 43: 2025/03/17
51: H04L; G06Q

71: SIMBL ESG PTY LTD
72: ASHLIN, Leigh
33: AU 31: 2021904170 32: 2021-12-21
54: RECYCLING SYSTEMS AND METHODS

00: -
Various waste recycling methods and systems are provided that incentivise sorting of waste for recycling. One such method comprises: scanning, using a portable computing device, a code or symbol of an item of waste, the code or symbol identifying a type of the item of waste; scanning, using the portable computing device, a code or symbol associated with a recycling reservoir and a particular type of waste; determining, a match between the type of the item of waste and the type of waste associated with the recycling reservoir; and executing, upon determining the match, a smart contract, the smart contract allocating one or more tokens to an account associated with the portable computing device according to the match.

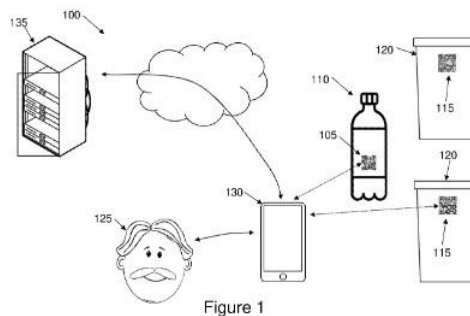


Figure 1

21: 2024/04948. 22: 2024/06/24. 43: 2025/01/13
51: C21D; C22C; C23D
71: Baoshan Iron & Steel Co., Ltd.
72: WEI, Jiao, SUN, Quanshe, QU, Lineng, JIANG, Xiaoming, WANG, Junkai, WANG, Jintao, WANG, Mu

33: CN 31: 202111414367.4 32: 2021-11-25
54: HIGH-STRENGTH COLD-ROLLED STEEL PLATE FOR DOUBLE-SIDED ENAMEL LINER AND METHOD FOR MANUFACTURING SAME

00: -
Disclosed in the present invention is a high-strength cold-rolled steel plate for a double-sided enamel liner, the high-strength cold-rolled steel plate comprising Fe and inevitable impurities, and also comprising the following chemical elements in percentage by mass: C: 0.06-0.12%, 0<Si≤0.08%, Mn: 0.5-1.2%, P: 0.01-0.05%, S: 0.005-0.05%, Al: 0.008-0.06%, N≤0.006%, Ti: 0.03-0.1%, B: 0.0002-

0.0035%, Cr: 0.01-0.06%, Cu: 0.01-0.06%, and Mg: 0.0005-0.03%. Correspondingly, also disclosed in the present invention is a method for manufacturing the high-strength cold-rolled steel plate for a double-sided enamel liner, the method comprising the steps of: (1) smelting, refining, and continuous casting; (2) billet heating; (3) hot rolling and coiling: controlling the final rolling temperature of hot rolling to be 810-880°C and controlling the coiling temperature to be 620-680°C; (4) descaling; (5) cold rolling: controlling the cold rolling reduction ratio to be 60-70%; (6) continuous annealing: the soaking temperature being 780-850°C, the soaking time being 120-200 s, the overaging temperature being 165-450°C, and the overaging time being 250-350 s; and (7) flattening.

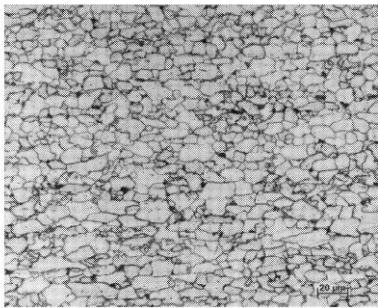


图 1

21: 2024/04952. 22: 2024/06/24. 43: 2025/01/13
 51: G01P
 71: ITT Manufacturing Enterprises LLC
 72: DECOOK, Bradley C., REITANO, James
54: HYBRID ROTATIONAL SPEED DETECTOR
 00: -

A device to detect a rotational run speed of a piece of rotating machinery. The device includes a processor in communication with a magnetic flux sensor, a vibration sensor, and a memory which includes instructions. The processor is configured to receive magnetic flux data and apply a fast Fourier transform to the magnetic flux data to generate transformed magnetic flux data. The processor is configured to determine a prominent fundamental frequency in the transformed magnetic flux data. For an electrical machine, this prominent fundamental frequency corresponds to the synchronous speed or the speed of the stator magnetic field. The processor is configured to receive vibration data and apply a fast Fourier transform to the vibration data to generate transformed vibration data. The processor is configured to determine an isolated frequency focal band based on the prominent fundamental frequency in the transformed magnetic flux data and

to determine the rotational run speed of the piece of rotating machinery based on the isolated frequency focal band and the transformed vibration data. By defining a relatively limited frequency band in which only the vibrational peak corresponding to the true rotational speed of the rotor will be located, it can be avoided to erroneously determine the speed based on a harmonic having a large amplitude.

Fig. 2A

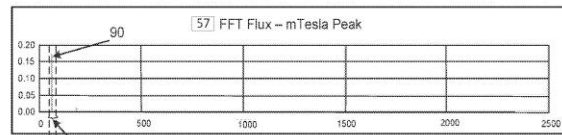


Fig. 2B

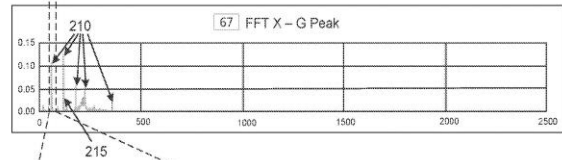
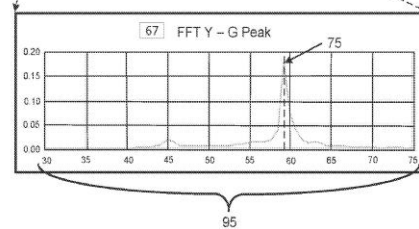


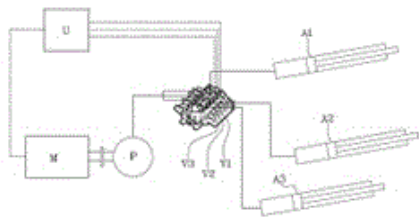
Fig. 2C



21: 2024/04969. 22: 2024/06/25. 43: 2025/01/02
 51: F15B
 71: MANITOU ITALIA S.R.L.
 72: IOTTI, MARCO
 33: IT 31: 102023000016377 32: 2023-08-02
54: METHOD FOR CONTROLLING THE ROTATION SPEED OF A MOTOR
 00: -

The invention relates to a method for controlling motor rotation speed. It involves preparing two functions - one linking pump flow rate to pump rotation speed, and the other linking flow rate control valve flow rate to control signal level. At a given instant, the method detects control signals and calculates flow rates for each valve. The total required flow rate is determined by summing

individual valve flow rates. Using the first function, the required pump rotation speed is calculated, and the motor's rotation speed is adjusted accordingly.



21: 2024/04977. 22: 2024/06/25. 43: 2025/01/03

51: C12N

71: NUTCRACKER THERAPEUTICS, INC.

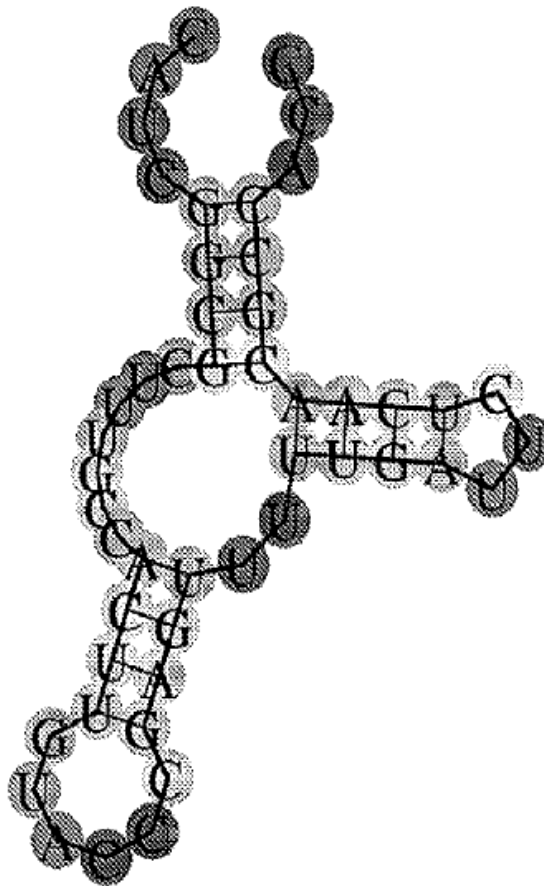
72: DEUTCH, Samuel, FRIMANSSON, Daniel Omar, HAABETH, Ole

33: US 31: 63/284,261 32: 2021-11-30

54: MODIFIED 5' UTR

00: -

The disclosure herein provides examples of modified 5' UTRs and methods of increasing translation of target mRNA using a modified 5' UTR.



21: 2024/05027. 22: 2024/06/26. 43: 2025/01/03

51: G05D

71: Jiangsu XCMG Construction Machinery Research Institute Ltd.

72: TANG, Jianlin, SUN, Yawen, ZHOU, Changcheng

33: CN 31: 202310219727.8 32: 2023-03-08

54: AUTONOMOUS VEHICLE CONTROL METHOD AND APPARATUS, AND OPERATION SYSTEM

00: -

An autonomous vehicle control method and apparatus (100, 700), and an operation system (800). The autonomous vehicle control method comprises: acquiring an alternative safe travel destination of a first autonomous vehicle; when it is determined that, during traveling on the basis of the alternative safe travel destination, the first autonomous vehicle does not conflict with another autonomous vehicle, determining the alternative safe travel destination to be a new safe travel destination; and issuing the new safe travel destination to the first autonomous vehicle, so as to instruct the first

autonomous vehicle to move to the new safe travel destination. The method is suitable for a cooperative operation of multiple autonomous vehicles in a working area, and guarantees that the autonomous vehicles travel in order in the working area, thereby guaranteeing the operation efficiency in the working area when no safety accidents may occur.

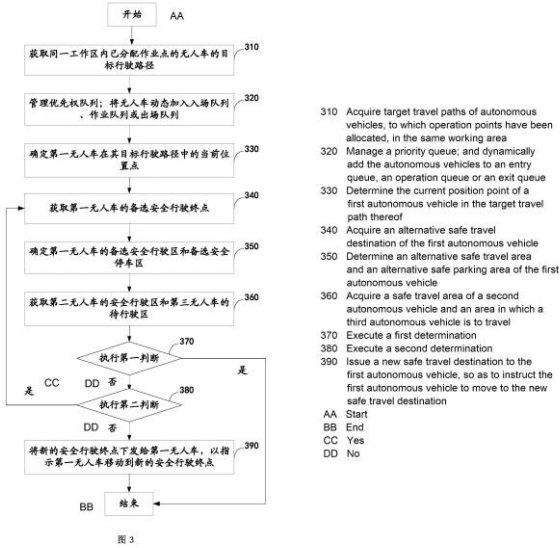
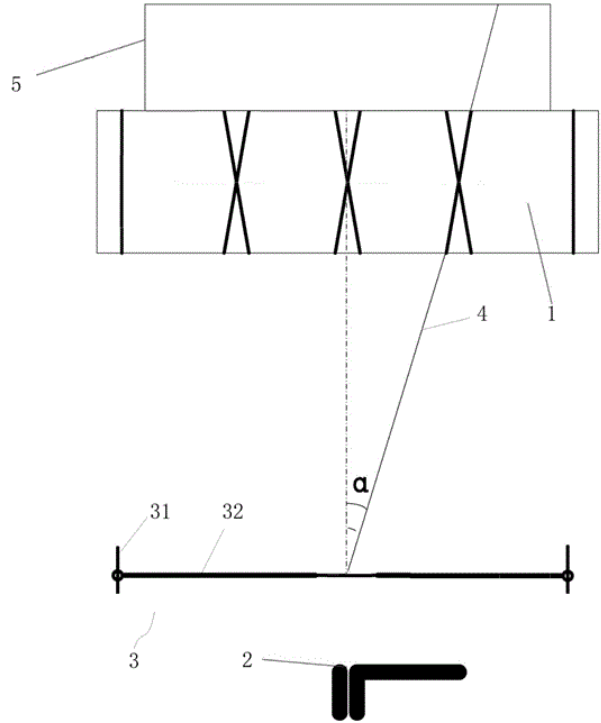


图3

increasing the coverage length and tension of the yarn on the groove drum of the doubling machine, reducing the angle between the yarn at the yarn guiding rod and the vertical line to decrease yarn swing amplitude. It solves the problems of yarn jumping, ply branching, and poor package quality during the production process of the VERSA-PT type doubling machine, which severely affect the quality and production efficiency of the doubling process.

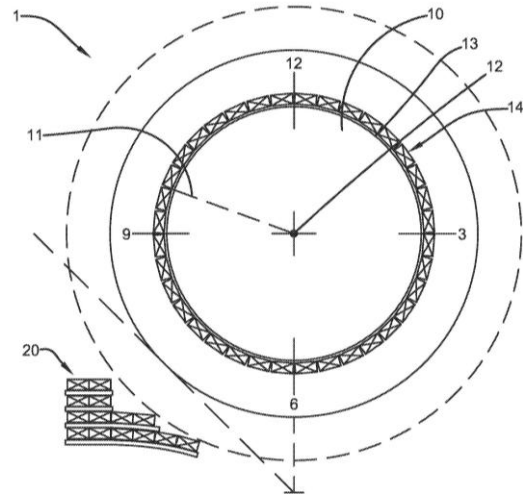
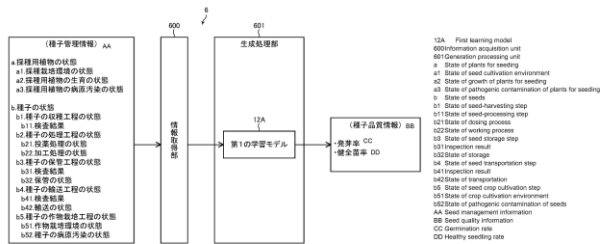


21: 2024/05052. 22: 2024/06/27. 43: 2025/02/24
 51: D01H
 71: INNER MONGOLIA KING DEER CASHMERE CO., LTD
 72: Shouming ZHANG, Jianli GUO, Hui DING, Hongmei XIAO, Jiancheng QIAO, Xinquan WANG
 33: CN 31: 2023113381 28.4 32: 2023-10-16
54: METHOD FOR IMPROVING PRODUCTION EFFICIENCY OF DOUBLING MACHINE
 00: -

The invention discloses a method to improve the production efficiency of a doubling machine, including: repositioning the yarn guiding device of the doubling machine located between the groove drum and the detection head yarn nozzle to a lower position; Yarn passing through the detection head yarn nozzle, winding around the groove drum, entering the doubling tube through the groove drum, and being doubled at the doubling tube; Enhancing the control of the groove drum over the yarn by increasing the coverage length and tension of the yarn on the groove drum, and reducing the vertical angle of the yarn at the yarn guiding rod to decrease yarn swing amplitude. The invention enhances the control of the groove drum over the yarn by

21: 2024/05053. 22: 2024/06/27. 43: 2025/01/03
 51: A01C; A01G
 71: Toyo Seikan Group Holdings, Ltd.
 72: KUNIMASA, Hidehiko, TANABE, Suguru, FURUKAWA, Satoshi, OKAMURA, Hiroshi
 33: JP 31: 2022-051257 32: 2022-03-28
54: INFORMATION PROCESSING DEVICE, INFERENCE DEVICE, MACHINE LEARNING DEVICE, INFORMATION PROCESSING METHOD, INFERENCE METHOD, AND MACHINE LEARNING METHOD
 00: -
 [Problem] To provide is an information processing device that enables easy prediction of seed quality.
 [Solution] An information processing device 6 comprises: an information acquisition unit 600 that acquires, as seed management information for seeds subject to prediction, the state of a seeder

plant from which the seeds are harvested and the state of the seeds; and a generation processing unit 601 that generates seed quality information for the seeds subject to prediction, by inputting the seed management information acquired by the information acquisition unit 600 into a learning model 12A that has been trained by machine learning using the correlation between the seed management information of the seeds subject to prediction and seed quality information indicating the quality of germination or seedlings of the seeds.



21: 2024/05060. 22: 2024/06/27. 43: 2025/01/03
 51: F03G; F16C; H02J; H02K; H02N
 71: MORAN, Matthew
 72: MORAN, Matthew
 33: US 31: 63/285,380 32: 2021-12-02
54: HIGH-EFFICIENCY MACHINE
 00: -

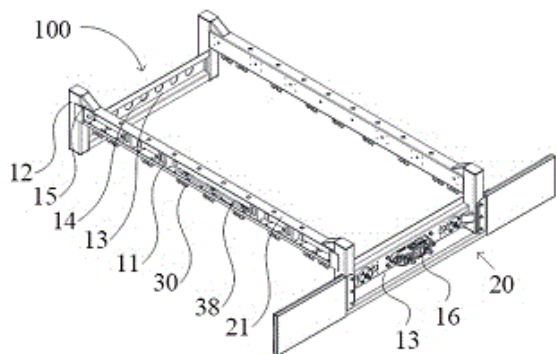
The systems and methods disclosed herein provide improvements in motion or energy transfer efficiency by incorporating long-lasting energy sources of gravity and magnetism. By providing a magnetic "lift-assist" in a particular geometric configuration, an improvement in output energy efficiency can be obtained. For example, improvements in the output/input energy ratio can be 10% and more. Inclined motion and piston-driven linear motion systems are also disclosed herein. The systems and method disclosed herein improve efficiency of rotation driven devices and other mechanisms.

21: 2024/05064. 22: 2024/06/27. 43: 2025/01/13
 51: B60L; B60K
 71: AULTON NEW ENERGY AUTOMOBILE TECHNOLOGY CO., LTD., SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD.
 72: ZHANG, JIANPING, QIU, DANLIANG, LIU, MENG, YU, XINRUI

33: CN 31: 202111606763.7 32: 2021-12-26
 33: CN 31: 202111444383.8 32: 2021-11-30
 33: CN 31: 202111668034.4 32: 2021-12-31
 33: CN 31: 202111606781.5 32: 2021-12-26
54: RAPID SWAPPING SUPPORT ASSEMBLY WITH HIGH LOCKING STABILITY, AND ELECTRIC VEHICLE COMPRISING SAME
 00: -

A rapid swapping support assembly (100) with high locking stability, the support assembly comprising a vehicle body support (20) and locking bases (30), wherein the vehicle body support (20) is fixed to an electric vehicle (500); and the locking bases (30) are arranged at a lower portion of the vehicle body support (20), an opening (31) and a sliding passage (32) extending from the opening (31) are arranged at a lower portion of each locking base (30), the opening (31) is used for allowing a locking shaft on a battery case (51) to enter and exit the sliding passage (32), and the opening (31) and the sliding passage (32) both penetrate the locking base (30) in an axial direction of the locking shaft. Further disclosed is an electric vehicle comprising the rapid swapping support assembly (100). The locking bases (30) are fixed to the electric vehicle (500) by means of the vehicle body support (20); the opening (31) of each locking base (30) is arranged at a lower

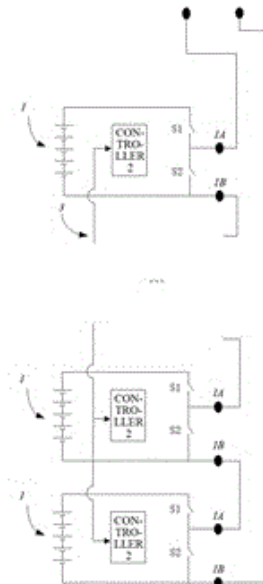
portion thereof, and the battery case (51) enters the sliding passage (32) by means of the opening (31) at the lower portion of the locking base, such that the battery case (51) is locked in the sliding passage (32), and the battery case (51) is prevented from entering the sliding passage (32) from a side surface of the locking base (30), thus the locking shaft can be prevented from sliding out from one side of the locking base (30), and the safety of the locking of the battery case (51) can be improved.



21: 2024/05070. 22: 2024/06/27. 43: 2025/01/13
 51: H02J
 71: ALPHA ESS CO., LTD.
 72: SI, XIULI, LIU, XIONGJIANG, SUN, LIYAN, ZHU, SONGHUA, JIANG, SIWEI, ZHANG, HAIYAN, SU, JIAOJIAO
 33: CN 31: 202210834152.6 32: 2022-07-14
54: ENERGY STORAGE SYSTEM
 00: -

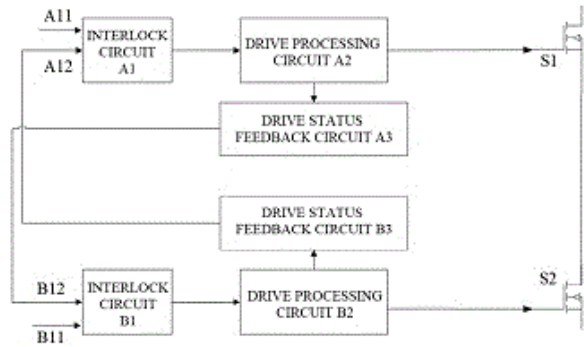
The present application provides an energy storage system, which comprises: M energy storage batteries interconnected and a communication link, where an energy storage battery is provided with a unique controller configured to control a corresponding energy storage battery to connect to or bypass from the energy storage system, where the controller is configured to perform a balancing control method, where the controller is configured to: obtain a first state value of the corresponding energy storage battery, send the first state value to another M-1 controllers based on the communication link, receive second state values sent by another M-1 controllers, and determine whether to connect the corresponding energy storage battery to the energy storage system or bypass it from the energy storage system based on the first state value and the M-1 second state values. Technical solutions in the

present application improves availability of an energy storage system.



21: 2024/05071. 22: 2024/06/27. 43: 2025/01/13
 51: H02J; H02H; H03K
 71: ALPHA ESS CO., LTD.
 72: SUN, LIYAN, SI, XIULI, MA, JINTAO, LIU, XIONGJIANG, ZHANG, HAIYAN
 33: CN 31: 202210954786.5 32: 2022-08-10
54: INTERLOCK DEVICE, ENERGY STORAGE SYSTEM, CONTROL METHOD, AND DEVICE THEREOF

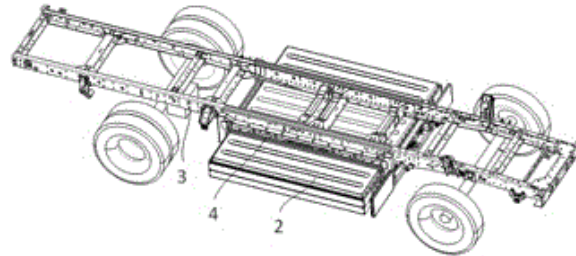
00: -
 The present application provides an interlock device, an energy storage system, a control method, and a control apparatus. The interlock device comprises: a first interlock circuit, a first drive processing circuit, a first drive status feedback circuit, a second interlock circuit, a second drive processing circuit, and a second drive status feedback circuit. The first interlock circuit, the first drive processing circuit, and the first drive status feedback circuit are connected, and the second interlock circuit, the second drive processing circuit, and the second drive status feedback circuit are connected. The first interlock circuit receives an output of the second drive status feedback circuit, and the second interlock circuit receives an output of the first drive status feedback circuit, thereby forming an interlock circuit.



21: 2024/05072. 22: 2024/06/27. 43: 2025/01/13
 51: B60L; B60S; B60K
 71: AULTON NEW ENERGY AUTOMOBILE TECHNOLOGY CO., LTD., SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD.
 72: ZHANG, JIANPING, YU, XINRUI, QIU, DANLIANG, HUANG, CHUNHUA, ZHU, MING
 33: CN 31: 202111444383.8 32: 2021-11-30
 33: CN 31: 202111606781.5 32: 2021-12-26
 33: CN 31: 202111606763.7 32: 2021-12-26
 33: CN 31: 202111668032.5 32: 2021-12-31
54: ELECTRIC VEHICLE BATTERY SWAPPING ASSEMBLY AND BATTERY SWAPPING STATION
 00: -

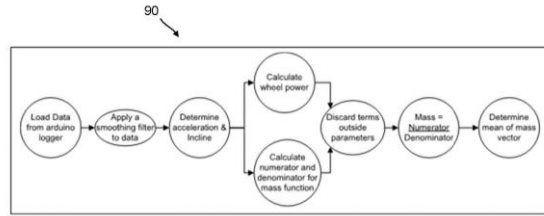
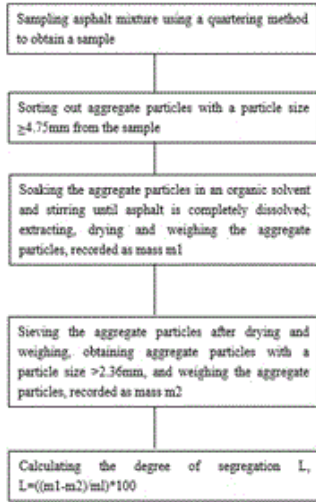
The present invention relates to the technical field of electric vehicle battery swapping, and disclosed are an electric vehicle battery swapping assembly and a battery swapping station. The electric vehicle battery swapping assembly comprises a battery swapping device (1) and a battery pack housing (2); both the battery swapping device (1) and the battery pack housing (2) are arranged at the bottom of an electric vehicle; the battery pack housing (2) is removed from the bottom of the electric vehicle or mounted at the bottom of the electric vehicle by means of the battery swapping device (1); during the process of removal or mounting, the height of the electric vehicle remains unchanged, and the bearing plane of the battery swapping device (1) is in the same plane as the bearing plane of the electric vehicle. The battery swapping station comprises a battery swapping platform allowing electric vehicles to park for removing or mounting battery packs and the battery swapping device (1) used for removing and mounting battery packs of electric vehicles on the battery swapping platform. According to the present invention, vehicles do not need to be lifted, and the battery swapping device (1) can be provided without digging a hole in the ground; and considering that the weight and load of electric trucks are both large,

the present invention is particularly suitable for electric trucks, such that the safety of the battery swapping station is improved, and the battery swapping efficiency can be improved.



21: 2024/05116. 22: 2024/06/28. 43: 2025/01/06
 51: G01N; B07B
 71: CHINA FIRST HIGHWAY ENGINEERING COMPANY LTD, CHINA FIRST HIGHWAY ENGINEERING COMPANY OVERSEAS LTD.
 72: ZHOU, YANDONG, WANG, YUGUO, XIAO, XIA
 33: CN 31: 202111576309.1 32: 2021-12-21
54: METHOD FOR DETECTING SEGREGATION DEGREE OF ASPHALT MIXTURE

00: -
 Provided in the present invention is a method for detecting the segregation degree of an asphalt mixture. The detection method comprises the following steps: sorting aggregate particles with a particle size of ≥ 4.75 mm from a sample; soaking the aggregate particles in an organic solvent, and stirring same until the asphalt in the aggregate particles is completely dissolved; then extracting, drying and weighing same, and recording same as mass m_1 ; screening and drying the weighed aggregate particles to obtain aggregate particles with a particle size of > 2.36 mm, weighing same, and recording same as mass m_2 ; and calculating to obtain a segregation degree L , wherein $L = ((m_1 - m_2)/m_1) * 100$. In the present invention, the test method is provided from the perspective of the quantitative test of the segregation degree of an asphalt mixture, and a test basis is provided for controlling the segregation of the asphalt mixture, so that the working performance of the asphalt mixture is improved, and the quality of an asphalt concrete finished product is further ensured.



21: 2024/05160. 22: 2024/07/02. 43: 2025/01/06
 51: G01G
 71: UNIVERSITY OF PRETORIA
 72: MEESER, Riaan
 33: ZA 31: 2021/09992 32: 2021-12-06

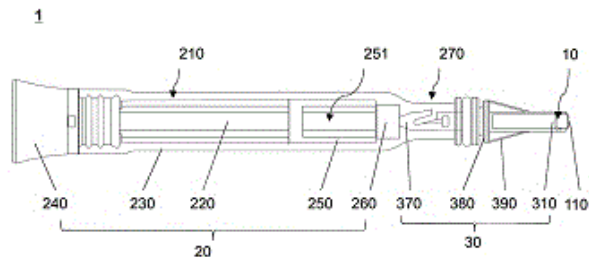
54: A SYSTEM AND METHOD FOR ESTIMATING A MASS OF A VEHICLE

00: -
 A system is provided for estimating a mass of a vehicle. The system includes a torsion sensor (e.g., provided by strain gauges) provided on at least a drive axle of the vehicle and configured to measure torsion in the drive axle between a drive input and a load of the drive axle. The system also includes at least one speed sensor configured to measure a speed of the drive axle and at least one sensor configured to measure or derive an inclination. A control module which is communicatively coupled to the torsion sensor, the speed sensor, and the sensor to measure or derive the inclination, thereby to receive signals from the sensors indicative of the characteristics they measure. The control module is configured to estimate the mass of the vehicle based on the signals from the sensors by solving an equation of motion based on the received signals.

21: 2024/05162. 22: 2024/07/02. 43: 2025/01/06
 51: G01N
 71: ASSURE TECH. (HANGZHOU) CO., LTD.
 72: YAO, LEI, LING, SHISHENG
 33: CN 31: 202210036630.9 32: 2022-01-13

54: SAMPLE COLLECTION APPARATUS AND SAMPLE COLLECTION METHOD

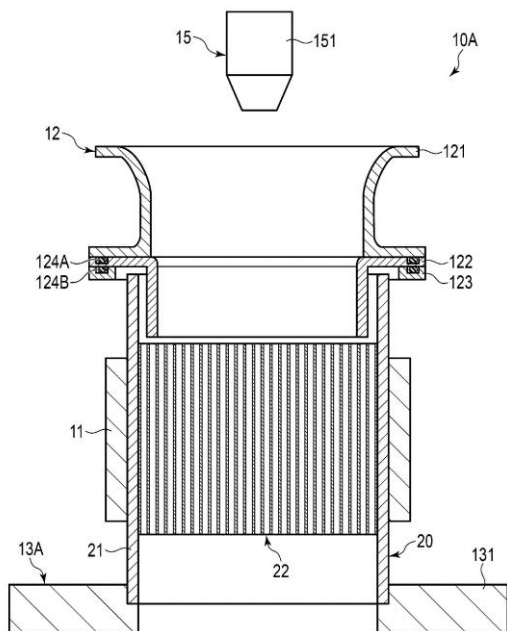
00: -
 The embodiments of the present application disclose a sample collection apparatus and a sample collection method. The sample collection apparatus comprises a collection portion, a detection portion, and a connection portion connecting the collection portion and the detection portion; the collection portion comprises a core body; the connection portion comprises a hollow structure, and at least part of the core body is arranged in the hollow structure, said core body having hydrophilicity. In the sample collection apparatus of the present application, a core body having strong hydrophilicity is provided in the collection portion, the core body has a large hydrophilic surface, and the core body suctions in the sample, thus improving the collected sample size and sampling efficiency. The core body has a maintenance effect on the sample, thus the collection angle is not limited.



21: 2024/05202. 22: 2024/07/03. 43: 2025/01/07
 51: B01J; B05C
 71: Cataler Corporation
 72: SAKAKIBARA, Keisuke, NAKAMURA, Yoshio, SUDO, Katsuyoshi, ICHIKAWA, Kazuki
 33: JP 31: 2022-001523 32: 2022-01-07

54: EXHAUST GAS-PURIFYING CATALYST-MANUFACTURING APPARATUS

00: -
 The present invention makes it unlikely for a coating layer to be formed near an opening of a cylindrical body. This device (1A) for manufacturing an exhaust gas purifying catalyst comprises: a holder (11) that holds a honeycomb substrate (20) in an upright state; a guide member (12) that includes a cylindrical part inserted into an opening above a cylindrical body (21) so as to be separated from a honeycomb structure (22) and the cylindrical body, has a first flow path allowing a coating liquid to be supplied to the upper surface of the honeycomb structure through the inside of the cylindrical part, and forms a second flow path allowing gas to be supplied to the upper surface of the honeycomb structure from a gap between the cylindrical part and the cylindrical body; a supply device (15) that supplies the coating liquid to the guide member; a suction device (13A) that suctions gas from the lower end of the cylindrical body; and a controller that controls operations of the supply device and the suction device such that, when the cylindrical part is inserted into the opening of the cylindrical body, the supply device supplies the coating liquid to the guide member, and the suction device suctions gas inside the honeycomb substrate from the lower end of the cylindrical body.



21: 2024/05203. 22: 2024/07/03. 43: 2025/01/07

51: A61K; A61P; C07C
 71: Hangzhou Tianlong Pharmaceutical Co., Ltd.
 72: SONG, Gengshen, WANG, Huanyu, ZHANG, Honglei, CHEN, Xichao, YU, Xiaowen, HUANG, Dawei
 33: CN 31: 202210034449.4 32: 2022-01-13
54: CATIONIC LIPID COMPOUND, COMPOSITION CONTAINING SAME AND USE THEREOF

00: -
 Provided in the present disclosure are a compound of formula (I), or an N-oxide, solvate, pharmaceutically acceptable salt or stereoisomer thereof. Further provided are a composition containing the aforementioned compound, and the use thereof in the delivery of a therapeutic agent or prophylactic agent.

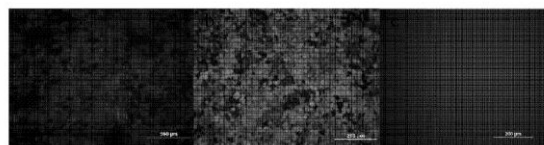
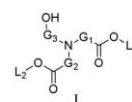


图 1



21: 2024/05235. 22: 2024/07/04. 43: 2025/01/07
 51: A01N; A01P
 71: Syngenta Crop Protection AG
 72: IBRAHIM, Rufai, FAJALIA, Ankit
 33: US 31: 63/292,130 32: 2021-12-21
54: HIGH TEMPERATURE-STABLE AGROCHEMICAL COMPOSITION

00: -
 The present invention relates to an agrochemical composition comprising: a. at least one agrochemically active compound; b. at least one pigment, in a w/w (weight/weight) concentration of at least 2%, based on total weight of the composition; and c. at least one nonionic surfactant selected from each of: an acrylic grafted polymer; a poloxamer; and a butyl polyalkylene oxide block copolymer. Preferably the at least active compound is a nematocide, more preferably cyclobutrifluram.

21: 2024/05241. 22: 2024/07/04. 43: 2025/03/13
 51: C12N; C12P
 71: SHENZHEN UNIVERSITY
 72: HU, Zhangli, WANG, Chaogang, GUO, Chunli, ZHANG, Guiying, JIA, Bin

33: CN 31: 202210917993.3 32: 2022-08-01
54: METHOD FOR SYNTHESIS AND ASSEMBLY AND FUNCTIONAL TEST OF ARTIFICIAL CHLAMYDOMONAS REINHARDTII CHLOROPLAST GENOME

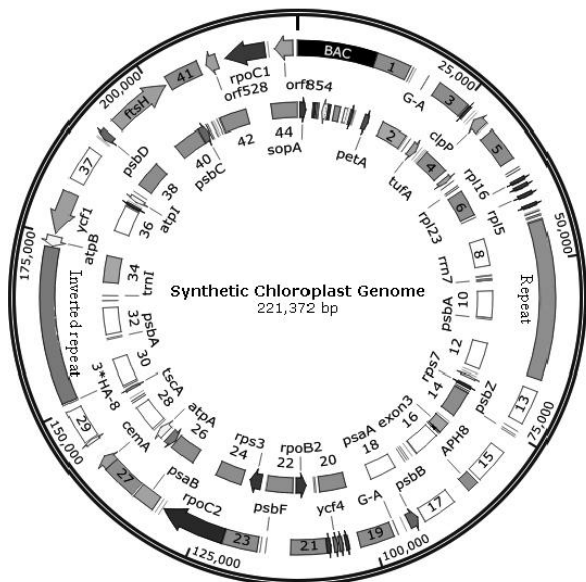
00: -
 Provided is a method for synthesis and assembly and functional test of artificial *Chlamydomonas reinhardtii* chloroplast genome. Full artificial synthesis of the *Chlamydomonas reinhardtii* chloroplast genome is proposed based on rational design of the *Chlamydomonas reinhardtii* chloroplast genome. Full chemical de novo synthesis and assembly of chloroplast genome are realized in a yeast-bacterial system by means of using fully chemically synthesized chloroplast genome fragments. The fully chemically synthesized chloroplast genome is then transfected into *chlamydomonas* cells to replace the original genome of the chloroplast. The chloroplast functions normally and is verified. Thus, the biological function of the fully chemically synthesized chloroplast genome is achieved. The *Chlamydomonas reinhardtii* chloroplast genome is demonstrated to be an efficient platform for carrying out synthetic biological operations, and the de novo design, the full-chemical synthesis, and in vitro assembly and identification of the genome provide new solutions for rational design and transformation and reconstruction of the photosynthesis system of photosynthetic organisms, improving the photosynthetic efficiency of crops, and dealing with agricultural crisis such as food security.

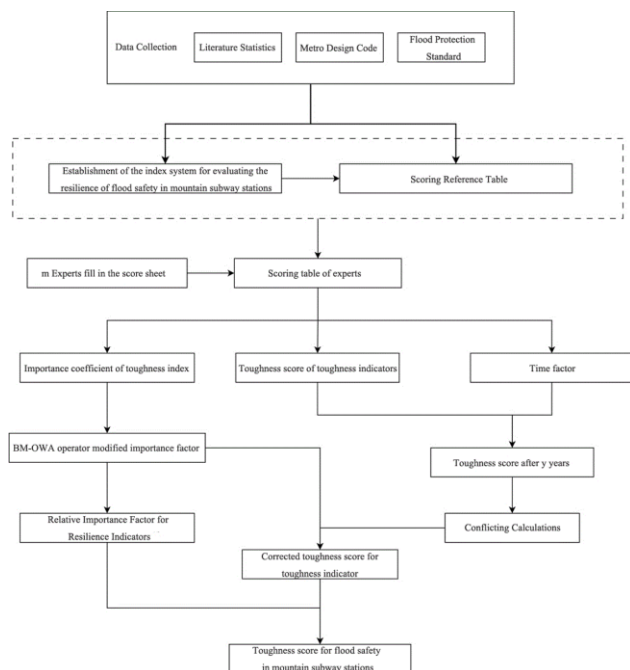
21: 2024/05293. 22: 2024/07/08. 43: 2025/01/08
 51: G06Q

71: Chongqing University
 72: WANG Yiyang, LI Yunyan, WAN Rong, CAO Zhilin

33: CN 31: CN2024106470803 32: 2024-05-23
54: A METHOD AND SYSTEM FOR DYNAMICALLY ASSESSING SAFETY TOUGHNESS OF FLOODING IN MOUNTAINOUS SUBWAY STATION BASED ON BM-OWA OPERATOR AND CONFLICTUAL ANALYSIS

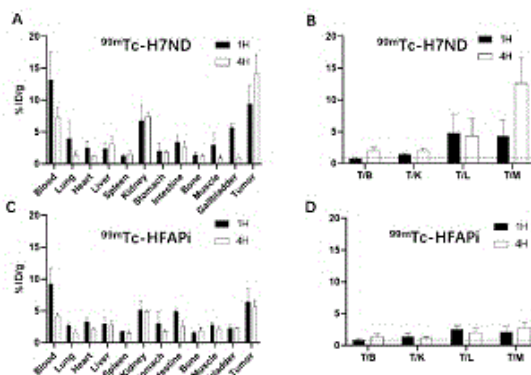
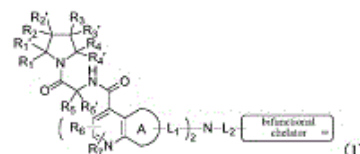
00: -
 The disclosure provides a method for dynamically assessing safety toughness of flooding in mountainous subway station based on BM-OWA operator and conflictual analysis, comprising: Step 1: constructing a flood safety toughness evaluation index system of a mountain subway station; Step 2: scoring each toughness indicator using an expert scoring method; Step 3: optimizing the importance coefficient obtained in Step 2 using the BM-OWA operator; Step 4: Step 4: setting the grading interval of each safety toughness indicator, and constructing a toughness level evaluation set; Step 5: the expert scoring each toughness indicator for the actual situation of the mountain subway station, obtaining the toughness level of each toughness indicator according to the scoring, and calculating the objective weight vector of the safety toughness indicator; Step 6: according to the obtained subjective weight vector and objective weight vector, obtaining the subjective-objective comprehensive weight vector; Step 7: Determining the flood safety toughness grade of the mountain subway station using the fuzzy comprehensive evaluation method.





21: 2024/05308. 22: 2024/07/08. 43: 2025/01/08
 51: C07D; C07F; A61K
 71: JIAXING PHARBERS GENESIS PHARMACEUTICAL TECHNOLOGY CO., LTD.
 72: WANG, CHUN, NIAN, JINXING
 33: CN 31: 202210851703.X 32: 2022-07-20
54: FAP-ALPHA SPECIFIC TUMOR DIAGNOSTIC IMAGING AGENT

00: -
 The present invention relates to a FAP- α specific tumor diagnostic imaging agent, in particular, the present invention relates to a compound of formula (I), a FAP- α specific tumor imaging agent formed by coordination of the compound of formula (I) with a radionuclide, and use of said compound in the diagnosis of a disease characterized by overexpression of fibroblast activation protein α (FAP- α) in a subject in need thereof.



21: 2024/05337. 22: 2024/07/09. 43: 2025/01/20
 51: A61K; A61Q

71: Givaudan SA
 72: LOYENET, Juliette, DINANT-BILINSKI, Céline, ROLLAND, Yohan
 33: GB 31: 2117863.7 32: 2021-12-10

54: FILM FORMING COSMETIC INGREDIENTS COMPRISING BOSWELLIA THICK OIL AND OAT KERNEL OIL

00: -
 A cosmetic ingredient comprising boswellia thick oil (*Boswellia serrata* oil) and oat kernel oil (*Avena Sativa* (Oat) Kernel oil) is provided, as well as cosmetic compositions comprising the same and methods of use thereof. The ingredient may be used as a film-forming agent or to improve the water-resistance of a cosmetic composition such as a sunscreen composition.

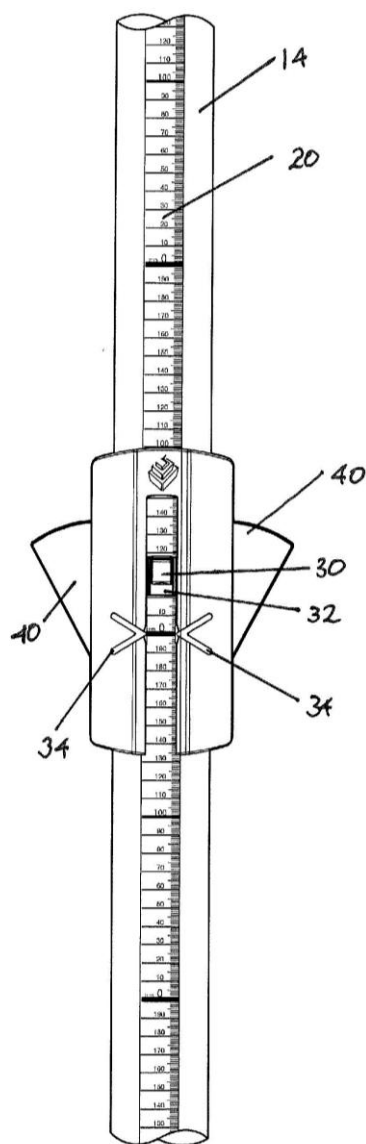
21: 2024/05339. 22: 2024/07/09. 43: 2025/01/20
 51: E21D; E21F; G01B; G08B

71: R.J. Goldspink Pty Limited
 72: GOLDSPIK, Robert
 33: AU 31: 2021904005 32: 2021-12-10

54: CONVERGENCE MONITOR

00: -
 A device for monitoring convergence between a first surface and a second surface, for example of a mine ceiling and floor, includes a measuring means having a plurality of measurements. The measuring means is attached to a support extending between and in contact with the first surface and the second

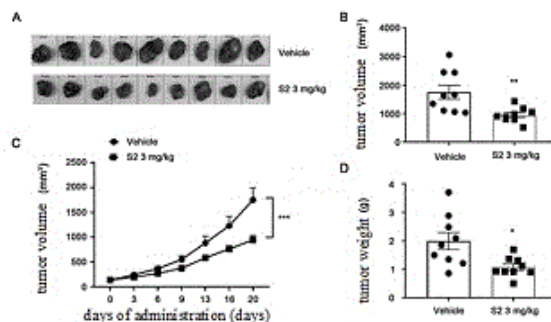
surface. An indicator body and a release trigger are adapted for mounting in relation to the measuring means. The indicator body has one or more warning indicators for providing a visual display upon convergence between the first surface and the second surface. The one or more warning indicators are adapted for display in response to activation of the release trigger.



21: 2024/05344. 22: 2024/07/09. 43: 2025/01/20
 51: A61K; A61P
 71: NEURODAWN PHARMACEUTICAL CO., LTD.
 72: ZHANG, ZHENGPING, LI, FULONG, WANG, LEI, CHEN, RONG, YANG, WEIDONG, FANG, FANG, AN, WENJI, HUA, YAO, FENG, LIN

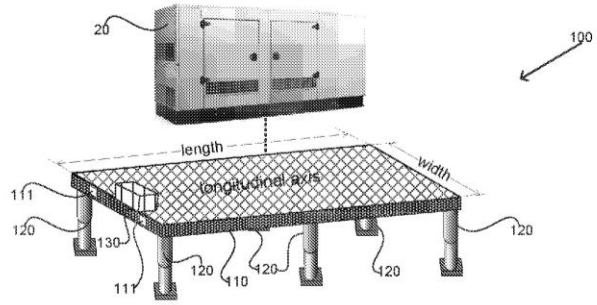
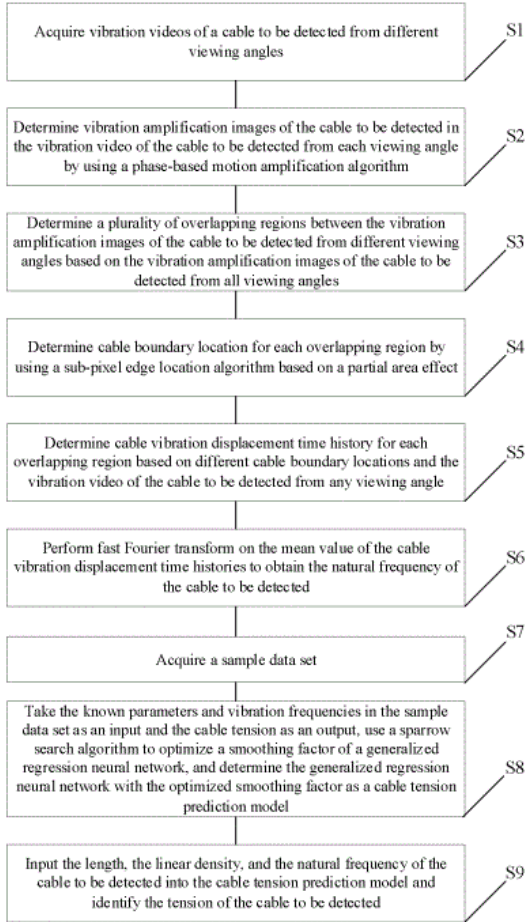
33: CN 31: 202111599362.3 32: 2021-12-24
54: USE OF A CLASS OF 1,4-DIHYDRO-NAPHTHYRIDINE DERIVATIVES IN TREATMENT OF TUMORS

00: -
 The present invention relates to the use of a class of 1,4-dihydro-naphthyridine derivatives in the treatment of tumors.

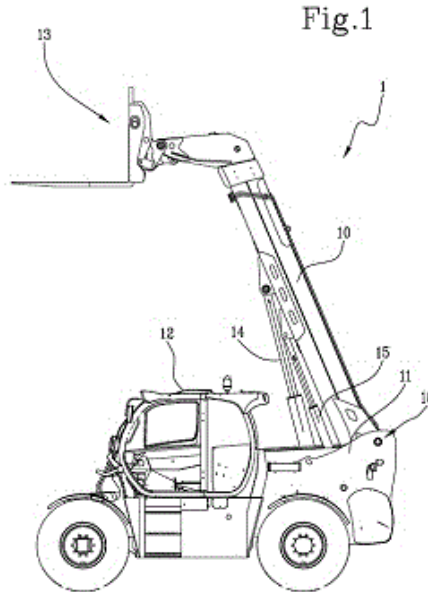


21: 2024/05355. 22: 2024/07/10. 43: 2025/03/03
 51: G06F
 71: HEFEI UNIVERSITY OF TECHNOLOGY
 72: WANG, Zuocai, HOU, Weichao, XIN, Yu, SHI, Haijian, DUAN, Dayou, XU, Jinjia, LIU, Zongzu, JIANG, Yunpeng, WANG, Dingtang
54: ACCURATE IDENTIFICATION METHOD FOR NATURAL FREQUENCY AND TENSION OF CABLE UNDER COMPLEX BOUNDARY CONDITIONS

00: -
 The present invention discloses an accurate identification method for nature frequency and tension of a cable under complex boundary conditions. The method includes: determining vibration amplification images of a cable to be detected in a vibration video of the cable to be detected from each viewing angle; determining a plurality of overlapping regions between the vibration magnification images of the cable to be detected from different viewing angles based on the vibration magnification images of the cable to be detected from all viewing angles; determining cable vibration displacement time history for each overlapping region; performing fast Fourier transform on the mean value of the cable vibration displacement time histories to obtain the natural frequency of the cable to be detected; acquiring a sample data set; and determining the generalized regression neural network with an optimized smoothing factor as a cable tension prediction model.



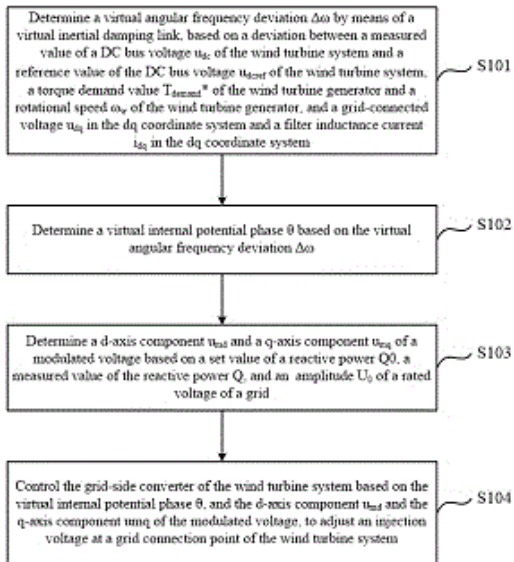
21: 2024/05436. 22: 2024/07/12. 43: 2025/01/20
 51: B66F
 71: MANITOU ITALIA S.R.L.
 72: IOTTI, MARCO
 33: IT 31: 102023000015342 32: 2023-07-21
54: SAFETY SYSTEM FOR WORKING MACHINE
 00: -
 Described is a self-propelled working machine (1) provided with an organ (10) for moving a load which comprises an activation actuator (14). The force applied by the actuator (14) is constrained by a predetermined maximum threshold.



21: 2024/05405. 22: 2024/07/11. 43: 2025/01/20
 51: B60P; B65G
 71: SHECHTER, Adar
 72: SHECHTER, Adar
 33: US 31: 63/289,679 32: 2021-12-15
 33: WO 31: PCT/IB2022/061933 32: 2022-12-08
54: CONVEYANCE APPARATUS
 00: -
 According to a first aspect of the present disclosed subject matter, a conveyance apparatus adapted to be transported by a flatbed truck, the conveyance apparatus comprising: a chassis having a bottom and engagement mechanisms; a plurality of telescopic legs operatively coupled to the bottom of the chassis for elevating and lowering the conveyance apparatus, and wherein the engagement mechanisms are configured to engage with the flatbed truck for securing the conveyance apparatus to the flatbed truck.

21: 2024/05462. 22: 2024/07/12. 43: 2025/01/21
 51: H02J
 71: GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.
 72: GUO, RUI, YU, XIAO, LIU, CHUANG
 33: CN 31: 202111535560.3 32: 2021-12-15
54: CONTROL METHOD AND CONTROL APPARATUS FOR VOLTAGE-SOURCE-TYPE WIND TURBINE GENERATOR SYSTEM

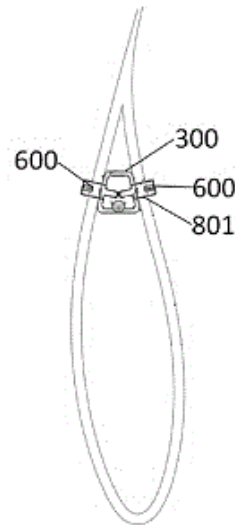
00: -
 Provided in the present disclosure are a control method and control apparatus for a voltage-source-type wind turbine generator system. The control method comprises: determining a virtual angular frequency deviation by means of a virtual inertia damping link, wherein parameters of the virtual inertia damping link are determined on the basis of a moment of inertia and a damping coefficient of a wind turbine generator of a wind turbine generator system; determining a virtual inner potential phase; determining a d-axis component and a q-axis component of a modulation voltage; and controlling a grid-side converter of the wind turbine generator system, so as to adjust an injection voltage of a grid-connected point of the wind turbine generator system.



21: 2024/05499. 22: 2024/07/15. 43: 2025/01/21
 51: F03D
 71: ENVISION ENERGY TECHNOLOGY PTE LTD.
 72: GONG, SHICHANG, MA, HAO, SUN, JIANXU,
 BIAN, JIAYAN, DONG, ZHENHUA
**54: LIGHTNING PROTECTION DEVICE FOR WIND
 TURBINE BLADES AND MOUNTING METHOD
 THEREFOR**

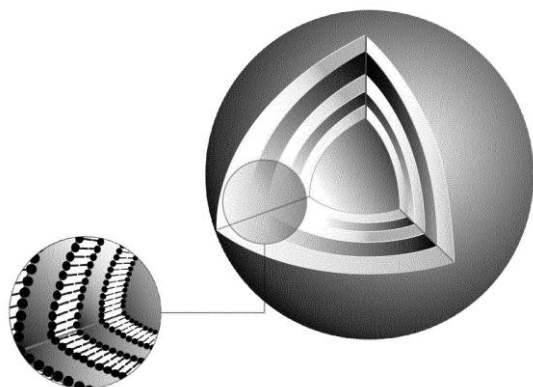
00: -
 Disclosed is a lightning protection device for wind turbine blades, comprising lightning receivers and a lightning receiver base. Each lightning receiver comprises a connecting portion, a lightning receiving portion and a positioning portion, wherein the lightning receiving portion is used for receiving

lightning, an external thread is provided on the surface of the connecting portion and used for being connected to the lightning receiver base, and the positioning portion is provided between the connecting portion and the lightning receiving portion, so that the positioning portion can be matched with the shape of a recessed portion in a threaded hole after the connecting portion is screwed into the threaded hole. The lightning receiver base is used for being connected to each lightning receiver and leading out lightning current received by each lightning receiver during lightning receiving, and comprises an insulating layer and at least one threaded hole, wherein the insulating layer is provided on the surface of the lightning receiver base, the at least one threaded hole is provided at the base surface of the lightning receiver base facing wind turbine blades, the length direction of the threaded hole is perpendicular to the base surface, the threaded hole is matched with the external thread, and the recessed portion capable of being matched with the shape of the positioning portion is provided at the end portion of the threaded hole close to the base surface.



21: 2024/05534. 22: 2024/07/16. 43: 2025/01/22
 51: A61K; A61Q
 71: Givaudan SA
 72: SEMYTKIVSKA, Nina, FLAMMER, Benedikt
 Christoph
 33: GB 31: 2118446.0 32: 2021-12-17
54: COSMETIC INGREDIENT
 00: -

A cosmetic material comprising multilayer crystalline microcapsules containing a cosmetic active ingredient is provided, as well as compositions comprising the cosmetic material and a method of preparing it.



21: 2024/05544. 22: 2024/07/17. 43: 2025/01/22
51: G01N

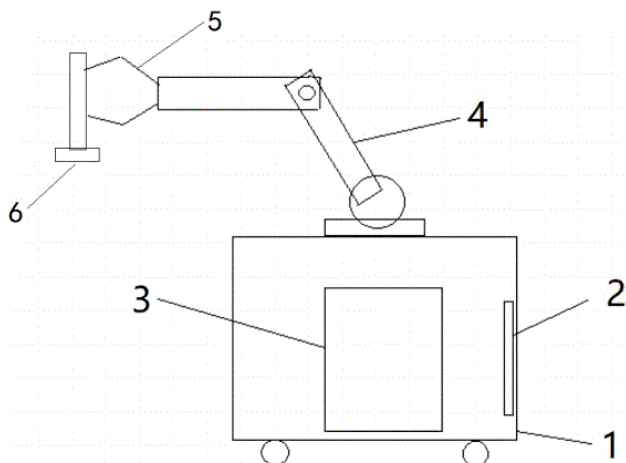
71: Beijing Institute of Technology
72: Changhua Hu

33: CN 31: 2023112398451 32: 2023-09-25

54: AN EDDY CURRENT FLAW DETECTION DEVICE BASED ON MOBILE MANIPULATOR

00: -

An eddy current flaw detection device based on a mobile manipulator is proposed, which generates the movement of a vehicle body and the action of a manipulator through a computer motion control. The device is easy to operate and automatic, and is suitable for various eddy current flaw detection applications.



21: 2024/05552. 22: 2024/07/17. 43: 2025/01/27
51: A43B

71: Skechers U.S.A., Inc. II

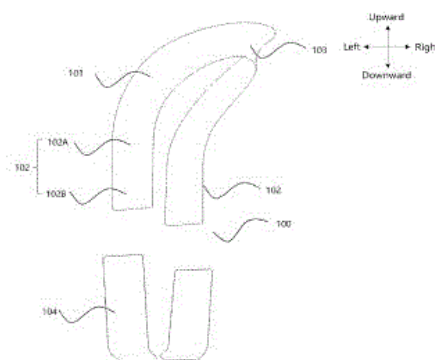
72: WANG, Eric Chi Chiang, CHENG, WanLing, XIE, Hui

33: CN 31: 202321904385.5 32: 2023-07-19

54: FOOTWEAR STRAP AND FOOTWEAR HAVING THE SAME

00: -

Embodiments of the present application provide a footwear strap and a footwear having the same. Among others, the footwear strap comprises a strap element and a rigid heel structural element; wherein the rigid heel structural element is disposed inside the strap element, and the rigid heel structural element comprises an upper rear portion; when the footwear strap is assembled to a footwear, the upper rear portion extends in a direction from the position where the footwear contacts the heel toward the position where the footwear contacts the toe, and inclines downward of the footwear; the upper rear portion has a convex curvature which is adapted to the shape of the heel so as to facilitate easily receiving the heel; when the footwear strap is assembled to the footwear, an inner lower portion of the convex curvature faces an opening of the footwear.



21: 2024/05563. 22: 2024/07/17. 43: 2025/01/22
51: G01N

71: Syngenta Crop Protection AG
72: WITMER, David

33: EP(CH) 31: 22154338.2 32: 2022-01-31

54: METHOD AND DEVICE FOR FAST QUANTITATIVE DETERMINATION OF SEED TREATMENT LOADING

00: -

The present invention relates to a method for determining the presence and quantity of one or more agrochemically active ingredient(s) on the

surface of one or more plant seed(s) or in a composition used or intended to be used to treat seed(s), comprising the steps as defined in claim 1.

21: 2024/05567. 22: 2024/07/17. 43: 2025/01/24
51: E02F

71: CHINA HARBOUR ENGINEERING COMPANY LTD.

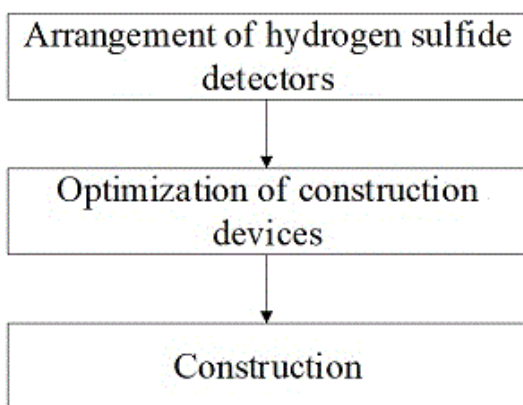
72: CHEN, TIANLIANG

33: CN 31: 202311281778X 32: 2023-10-07

54: SAFE AND ENVIRONMENTALLY-FRIENDLY CONSTRUCTION METHOD FOR HYDROGEN SULFIDE-CONTAINING SOIL

00: -

The present invention discloses a safe and environmentally-friendly construction method for hydrogen sulfide-containing soil, comprising: arranging multiple hydrogen sulfide detectors with a height of 30-60 cm and two monitoring hosts in a ship; welding keels around and above a hopper of ship, sealing hopper with a sealing area of 15-20 m close to a navigation bridge side and 10 m close to a rear of hopper, arranging a high-power axial flow fan, filling a hopper door hole of a hopper deck, arranging a cover plate on an exterior of hopper door hole; mounting double-sided plow teeth at a wear-resistant block of a rake head of ship; dispersing hydrogen sulfide gas before construction, closing an external circulation mode, starting internal circulation mode of a draught fan in a living cabin, and accelerating air flowing by an explosion-proof axial flow fan. The invention ensures safe and efficient construction of hydrogen sulfide-containing soil.



21: 2024/05604. 22: 2024/07/18. 43: 2025/01/22
51: C02F; C23C

71: HYDROMECHANIQUE ET FROTTEMENT

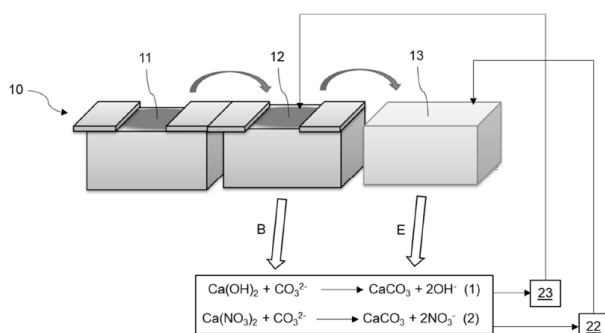
72: GARCIA, Frédéric, HEAU, Christophe

33: FR 31: 2200854 32: 2022-01-31

54: METHOD FOR TREATING WASTE WATERS AND RESIDUE SLUDGE BY MEANS OF DECARBONATION IN A CHEMICAL INSTALLATION FOR NITRIDATION IN A MOLTEN SALT BATH

00: -

The present invention relates to a method for treating waste waters (E), and/or residue sludge (B) from an oxidation bath, to recover oxidation salts, in an installation (10) for nitridation in a molten salt bath, comprising a nitridation bath (11), an oxidation bath (12), and a stop bath (13). The method comprises a decarbonation of waste waters (E) and/or residue sludge (B), and a separation of a liquid phase containing oxidation salts (23) and of a solid phase containing a carbonate precipitate, to recover oxidation salts.



21: 2024/05607. 22: 2024/07/18. 43: 2025/01/22

51: A61K; A61P

71: DAEWOONG PHARMACEUTICAL CO., LTD.

72: HUH, Wan, LIM, Hyun-Woo, CHOI, Ji Soo, PARK, Joon Seok

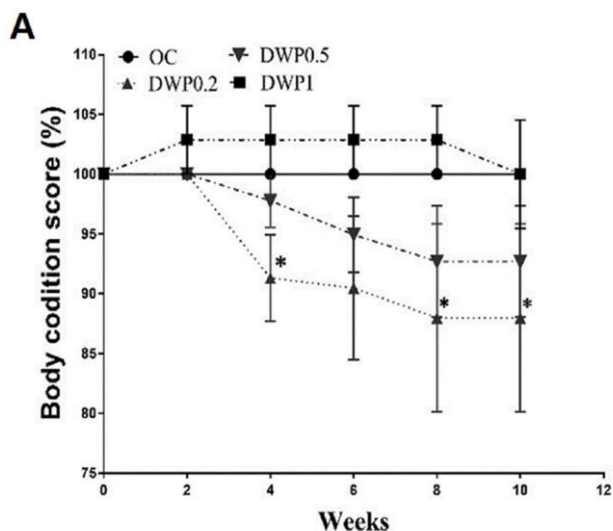
33: KR 31: 10-2022-0008671 32: 2022-01-20

54: PHARMACEUTICAL COMPOSITION COMPRISING ENAVOGLIFLOZIN FOR PREVENTING OR TREATING OBESITY IN CANINE ANIMALS

00: -

The present invention relates to a pharmaceutical composition comprising enavogliflozin as an active ingredient for preventing or treating obesity in canine animals. The composition can be advantageously used for preventing or treating obesity in canine animals because it reduces the body condition score, body weight, fat thickness, body fat percentage, chest circumference, and waist

circumference of obesity dogs, and has an excellent improvement effect on serological indicators.



21: 2024/05613. 22: 2024/07/19. 43: 2025/01/23
51: B01J

71: KUNMING METALLURGY COLLEGE
72: LI, YONGJIA, YANG, ZHIHONG, ZHANG,
SONGYUAN, ZHANG, JINLIANG

33: CN 31: 2024107415216 32: 2024-06-07

54: A PROCESS OF USING A ZNSO₄ SOLUTION TO REMOVE IMPURITIES FROM THE LIQUID PHASE AND SIMULTANEOUSLY PREPARE LIQUID-STATE ELECTROLYTIC ADDITIVES

00: -

The present invention discloses a process of using a ZnSO₄ solution to achieve the simultaneous removal of impurities from the liquid phase and preparation of liquid-state electrolytic additives. The process comprises the following steps: (1) determining the contents of Cu, Cd, Ni, and Co in the Zn electrolyte to be treated; (2) adding Zn powder, along with addition of certain amounts of ethylenediaminetetraacetic acid (EDTA), SrCO₃, and gelatin as electrolytic additives, performing ultrasonic mixing to generate a slurry, and feeding the slurry into the first purification tank to start reactions for impurity removal and additive dispersion; (3) adding Zn powder, along with addition of appropriate amounts of CuSO₄, Sb₂O₃, EDTA, SrCO₃, and gelatin as electrolytic additives, performing ultrasonic mixing to generate a slurry, and feeding the slurry into the second purification tank to start reactions for impurity removal and additive dispersion; and (4) adding appropriate amounts of Zn powder, EDTA,

SrCO₃, and gelatin, performing ultrasonic mixing to generate a slurry, and feeding the slurry into the third purification tank to start reactions for impurity removal and additive dispersion. This process is effective, allowing the removal of impurities from the solution and the simultaneous preparation of liquid-state electrolytic additives. After treating the ZnSO₄ solution by the proposed process, the solution can be used to produce high-quality cathode Zn through electrodeposition.

21: 2024/05614. 22: 2024/07/19. 43: 2025/01/23
51: F23J

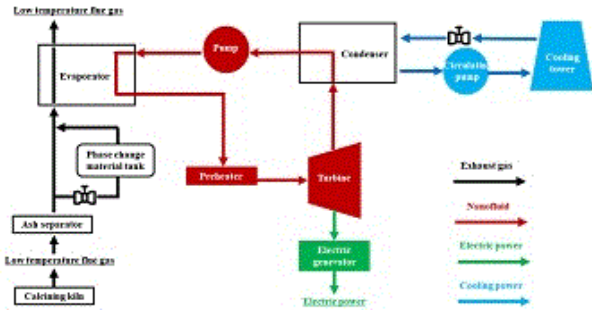
71: KUNMING METALLURGY COLLEGE
72: ZHANG, SONGYUAN, LI, YONGJIA, MA, LEI,
YANG, ZHIHONG

33: CN 31: 2024106783259 32: 2024-05-29

54: A NANOFUID-BASED WASTE HEAT RECOVERY SYSTEM FOR FLUE GAS FROM CATHODE MATERIAL PRODUCTION

00: -

The present invention details a nanofluid-based waste heat recovery system for flue gas from cathode material production, comprising a dust collector, heat exchanger, phase-change heat storage tank, preheater, steam turbine, water pump, and generator. Flue gas from a combustion kiln is directed into the dust collector, which is connected to the heat exchanger via a thermal pipeline. The phase-change heat storage tank is connected in parallel to the pipeline between the dust collector and the heat exchanger. The preheater, steam turbine, and water pump are sequentially interconnected by a nano-pipeline in a circular manner. The coolant pipeline of the heat exchanger is arranged in series between the preheater and the water pump. The nano-pipeline is filled with nanofluid, and the steam turbine is connected to the generator. The present invention incorporates a phase-change heat storage tank that absorbs or releases energy from or to the flue gas, ensuring stable operation of the waste heat recovery system and mitigating the impact of flue gas production fluctuations. Meanwhile, the use of nanofluid in the heat exchange fluid offers superior heat absorption and transfer efficiencies compared to water, thus, enhancing the benefit of waste heat recovery.



21: 2024/05622. 22: 2024/07/19. 43: 2025/02/17
 51: H04L; H04W
 71: SHENZHEN TRANSSION HOLDINGS CO., LTD.

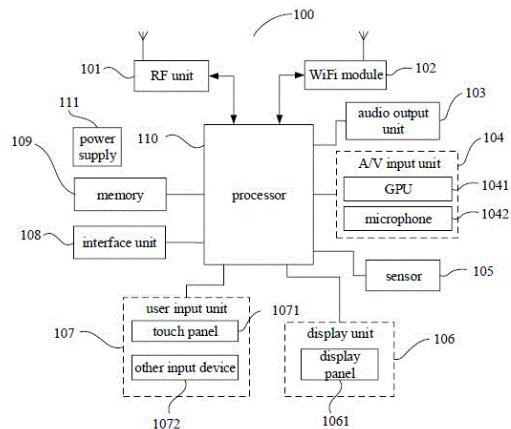
72: HUANG, Chiunwei, SHEN, Xingya, XIE, Yili, HUANG, Wei

33: CN 31: 202311227169.6 32: 2023-09-22

54: RETRANSMISSION METHOD, COMMUNICATION DEVICE AND STORAGE MEDIUM

00: -

The present application retransmits the LTM random access-less cell switch completion information based on a scheduling method, and provides an information retransmission mechanism applicable to the LTM cell switch process, which can improve the transmission reliability of the LTM random access-less cell switch completion information, thereby reducing LTM cell switch failures and/or reduce service interruption delays.



21: 2024/05628. 22: 2024/07/19. 43: 2025/02/07
 51: H01M

71: "TOPAZ" LIMITED LIABILITY COMPANY ("TOPAZ" LLC)

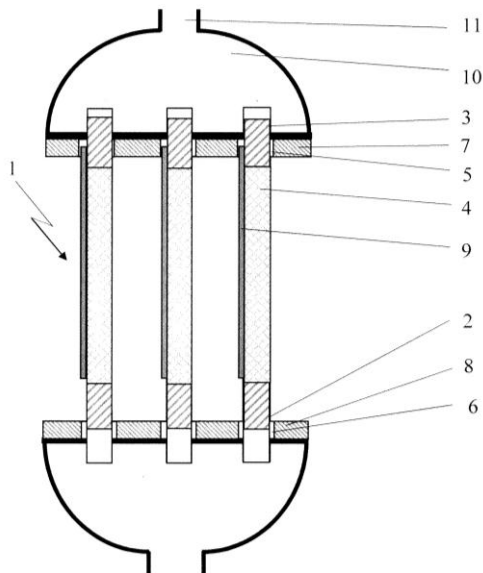
72: LEVCHENKO, Egor Aleksandrovich, TIMERBULATOV, Ruslan Sergeevich, GVOZDKOV, Ilya Alekseevich, SIVAK, Aleksandr Vladimirovich

33: RU 31: 2021139763 32: 2021-12-29

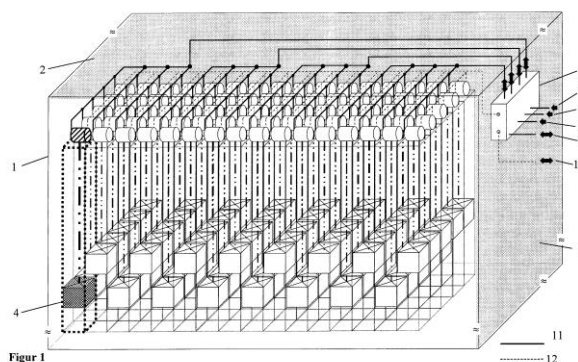
54: METHOD FOR MANUFACTURING A BATTERY OF TUBULAR SOLID OXIDE FUEL CELLS AND A BATTERY MANUFACTURED BY THE CLAIMED METHOD

00: -

Invention relates to the field of electrical engineering, namely to high-temperature solid oxide fuel cells (hereinafter – SOFC) of tubular geometry with a carrying anode electrode and their manufacturing method. Individual tubular SOFC are placed in through holes of a support plate, solder is applied to zones of placement of tubular SOFC in holes of the support plate, after which soldering is performed, while solder is made of electroconductive material with a melting temperature higher than an operating temperature of SOFC, and a thermal expansion coefficient (hereinafter – TEC) closer to TEC of materials of the support plate and SOFC electrodes. The surface of SOFC electrode (an anode electrode or a cathode electrode, as well as the surface of electrolyte near the anode electrode) in the area of soldering of each individual SOFC placed in the hole of the support plate is precoated with a layer of electroconductive material resistant to the operating temperature of SOFC. The layer of electroconductive material is a layer of, for example, nickel, platinum, or titanium hydride. EFFECT: increase in the reliability of microtubular SOFC batteries; increase in the manufacturability of a method, and reduction in the duration of a process of the assembly of SOFC battery due to the combination of electrical switching and sealing into one operation, using high-temperature metal solders and carrying out a soldering operation. 6 cl, 4 dwg, 2 ex.



to use potential energy in a structure while simultaneously doubling the usage of the surface area on the roof by means photovoltaics and/or wind turbines. The application quality consists in the reliable supply of current in an autonomous as well as network-integrated manner in the vicinity of the point of consumption without specific location requirements and with an automatic and reliable operation which can be remote-controlled, high storage and distribution cycles with short reaction times and without self-discharges or degeneration, a low auxiliary energy consumption, low operating costs, a high degree of environmental compatibility with a high degree of efficiency, and a long calendar service life which is conterminous with the building.



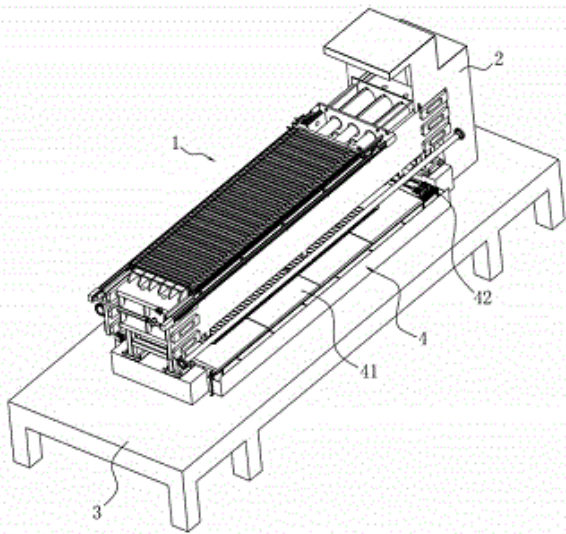
21: 2024/05638. 22: 2024/07/19. 43: 2025/01/24
 51: H02J; H02S
 71: EXCELLENCE - GESELLSCHAFT ZUR OBHUTSVERWALTUNG ERLESENER LIEGENSCHAFTEN UND VERMÖGENSANLAGEN MBH
 72: HARAZIM, Wolfgang
 33: DE 31: 10 2022 002 127.7 32: 2022-06-13
54: METHOD - INCLUDING ENERGY STORAGE METHOD - FOR SUPPLYING ENERGY IN THE VICINITY OF THE POINT OF CONSUMPTION USING REGENERATIVE ENERGY SOURCES, AND USE THEREOF

00: -
 The invention relates to a universal application method including an energy storage process for supplying energy in the vicinity of the point of consumption using regenerative energy sources and to the use thereof, said method being applicable primarily in the energy industry. The shift away from the use of fossil energy to regenerative energy sources requires a novel energy supply infrastructure. The supply from wind and solar energy as main energy sources does not coincide with the electricity demand in terms of time frame such that the function of storage devices is increasingly important. The universal application method achieves a new level of application quality by virtue of the measures taken, i.e. the storage of fluctuating current supplies with short reaction times in order to adapt the network loads on the basis of a plurality of separately actuatable hub modules so as

21: 2024/05640. 22: 2024/07/19. 43: 2025/01/24
 51: B01D
 71: ANYONG ENVIRO-TECH (JIANGSU) CO., LTD.
 72: WANG, JUN, CAI, JINGDI, GU, JIANFENG, FANG, XUOXING, LIU, HEPING
 33: CN 31: 202210047102.3 32: 2022-01-17
 33: CN 31: 202221365762.8 32: 2022-06-02
 33: CN 31: 202221092799.8 32: 2022-05-09
54: HEAT-FREE MATERIAL DRYING SYSTEM, FILTER PRESS CONTROL METHOD AND FILTER PRESS

00: -
 The present application discloses a heat-free material drying system, a filter press control method and a filter press. The heat-free material drying system comprises: a pressing device, comprising a guide device and a filter plate assembly which slides along the guide device; a feeding device, comprising a feeding pipe and a water inlet pipe which are connected to the filter plate assembly; a driving device, comprising a driving mechanism for driving the pressing device to move; and a pressure balancing device, comprising an electromagnetic

valve, a feeding pressure sensor connected to the feeding pipe, and a pressing pressure sensor connected to the water inlet pipe, wherein, when the filter plate assembly slides to a preset position, the driving mechanism stops working, the corresponding electromagnetic valve performs a power on/off action, and the pressure balancing device switches to a pressure balancing mode. The filter press of the present application can perform intelligent pressure balancing control, thereby reducing the consumption of hydraulic oil and also providing sufficient working pressure.



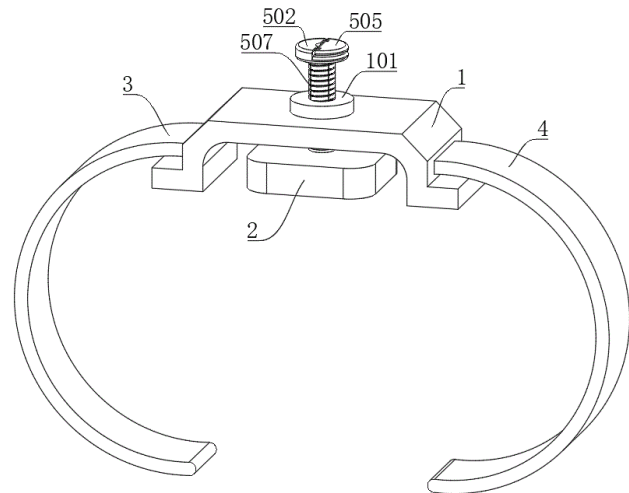
21: 2024/05648. 22: 2024/07/22. 43: 2025/01/27
51: A61B

71: The First Affiliated Hospital of Shihezi University
72: YANG Xiaoping, ZHANG Chunjiang, ZHAO Dan, ZHANG Jinping, ZHANG Guorui

54: A HEMODIALYSIS ARTERIOVENOUS ARTIFICIAL ENDOVASCULAR FISTULA VASCULAR COMPRESSION HEMOSTAT

00: -
The disclosure provides a hemodialysis arteriovenous artificial endovascular fistula vascular compression hemostat, including a fixed member and a compression member inside the fixed member, in which two sides of the fixed member are fixed with a Velcro male surface and a Velcro female surface, respectively, and the fixed member is provided with a self-locking adjusting assembly for controlling a movement of the compression member; and wherein the self-locking adjusting assembly comprises a fixed shaft and a fixed disc, in which the

fixed shaft is rotationally connected with the compression member, the fixed shaft is rotationally connected with the fixed disc, and the fixed shaft is connected to the fixed disc through a connection tube. By the self-locking adjustment component, the haemodialysis arteriovenous artificial endovascular fistula vascular compression hemostat not only can facilitate the staff to rotate the threaded board through the pinch block, so as to improve the convenience of the adjustment of the position of the compression member, but also can enable a plurality of the threaded boards expand outward through the change of pinch block from the vertical state to the horizontal state, so that the threads on the external surface of the threaded board bite the threads of the internal threaded ring on the inner wall, so as to leave the threaded board in a locked state, which prevents the threaded boards from rotating randomly when the patient is moving around, effectively ensuring the stability of the device's haemostasis and its safety when it is used.



21: 2024/05650. 22: 2024/07/22. 43: 2025/01/24
51: G06K

71: MABASA, Sicelo Lawrence, VUMA, Tshiamo Ashley

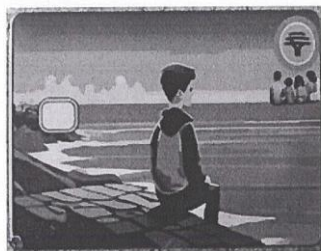
72: MABASA, Sicelo Lawrence, VUMA, Tshiamo Ashley

33: ZA 31: 2023/05671 32: 2023-05-26

54: PERSONALISED CARD AND SYSTEM FOR DESIGNING SAME

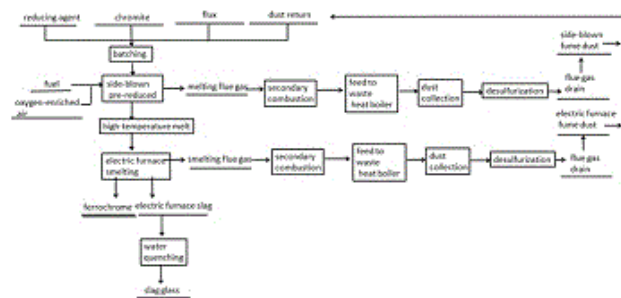
00: -
A personalised card which includes a body manufactured from any one of the group of plastic, wood, metal, and a composite material; and a

personalised outlay defined on at least one outer surface of the personalised card.



21: 2024/05655. 22: 2024/07/22. 43: 2025/01/24
 51: C22B
 71: CHINA ENFI ENGINEERING CORPORATION., CHINA NONFERROUS ENGINEERING CO., LTD.
 72: LI, CHONG, SONG, ZHENZHEN, XU, XIAOFENG, LI, MIN, CUI, MU, WANG, XIAODAN, XU, GUOLI, LI, SHUCHAO
 33: CN 31: 202311500284.6 32: 2023-11-10
 33: CN 31: 202311412069.0 32: 2023-10-27
54: PROCESS FOR SMELTING CHROMITE AND SYSTEM THEREOF

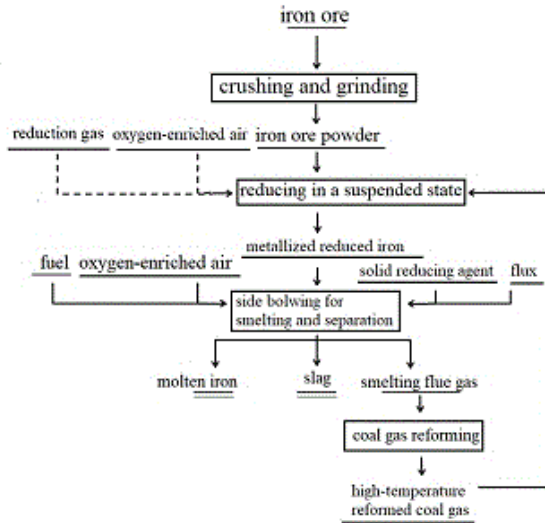
00: -
 The present invention discloses a process for smelting chromite comprising the following steps: step 1) placing a raw material containing a chromite, a reducing agent and a flux in a smelting equipment, side-blowing and spraying oxygen-enriched air and fuel into the raw material for combustion, melting the raw material to obtain a side-blown pre-reduced melt; step 2) performing reduction melting on the side-blown pre-reduced melt to obtain a ferrochrome product. The raw materials are directly fed into the furnace without pre-treatment, avoiding pollution caused by grinding and pelletizing. The present invention is environmentally friendly, and the electric furnace has low power consumption, only 300-400kWh/t of iron. Steam power generation can fully supply this part of the power consumption, without the need for external power supply, significantly reducing the demand for electricity in ferrochrome production.



21: 2024/05674. 22: 2024/07/22. 43: 2025/01/24
 51: C21B
 71: CHINA ENFI ENGINEERING CORPORATION, CHINA NONFERROUS ENGINEERING CO., LTD.
 72: CHEN, XUEGANG, WANG, XINGNAN, GUO, YAGUANG, PEI, ZHONGYE
 33: CN 31: 202310223655.4 32: 2023-03-09
54: LOW-CARBON IRONMAKING METHOD BY DIRECTLY REDUCING IN A SUSPENDED STATE AND SMELTING-SEPARATING IN A SIDE-BLOWN FURNACE

00: -
 The present application discloses a low-carbon ironmaking method by directly reducing in a suspended state and smelting-separating in a side-blown furnace, which relates to the technical field of low-carbon ironmaking, and comprises the following steps: step S1: crushing and grinding iron ore into iron ore powder; step S2: placing the iron ore powder in a suspension reduction furnace, introducing high-temperature reduction gas from the bottom of the suspension reduction furnace to directly reduce the iron ore powder in a suspended state, maintaining the temperature in the suspension reduction furnace in a range from 700°C to 900°C and the reduction time in a range from 10 minutes to 60 minutes, and obtaining reduced iron powder with a metallization rate greater than 90%; and step S3, adding the reduced iron powder, a flux and a solid reducing agent into the side-blown furnace for melting and final reduction, spraying oxygen-enriched air and fuel into the side-blown furnace to provide heat for the molten pool; maintaining the temperature of the molten pool in a range from 1450°C to 1600°C and the smelting time in a range from 30 minutes to 90 minutes, and obtaining a final reduced iron with a recovery rate greater than 98%. The present application directly reduces powdered iron ore in a suspended state, and then uses side-blown furnace for smelting and separation to perform

final reduction and slag-iron separation, which simplifies the molten iron preparation process and at the same time utilizes energy synergistically to reduce production costs.



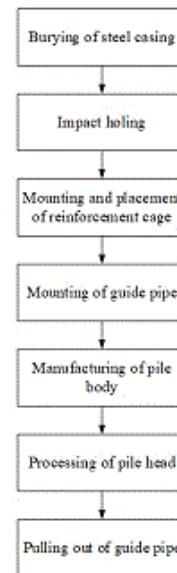
21: 2024/05675. 22: 2024/07/22. 43: 2025/01/24
 51: C04B; C09D
 71: CHINA HARBOUR ENGINEERING COMPANY LTD.
 72: TANG, QIAOLIANG
 33: CN 31: 2023106055986 32: 2023-05-26
54: EXPANSION JOINT FILLING MATERIAL AND PREPARATION METHOD THEREOF
 00: -

The present invention discloses an expansion joint filling material comprising a caulking material and a waterproof protection material sprayed to a top portion of caulking material; the caulking material comprising ingredients in parts by mass: cement: 100 and short steel fibers coated with polyurethane rubber: 4-8; and the waterproof protection material comprising a component A and a component B, component A comprising ingredients in parts by mass: modified emulsified asphalt: 40-60 and rubber emulsion: 30-50, and component B is a flocculating agent. A preparation method comprises: mixing and stirring cement and short steel fibers coated with polyurethane rubber to obtain caulking material; and mixing modified emulsified asphalt and rubber emulsion to obtain component A, and preparing flocculating agent to obtain component B, so as to obtain waterproof protection material. The expansion joint filling material of the invention has good water

resistance and temperature adaptability, and preparation method is simple.

21: 2024/05676. 22: 2024/07/22. 43: 2025/01/24
 51: E02D
 71: CHINA HARBOUR ENGINEERING COMPANY LTD.
 72: YUE, YEQING
 33: CN 31: 2023112241135 32: 2023-09-21
54: CONSTRUCTION METHOD OF CAST-IN-PLACE PILE
 00: -

The present invention discloses a construction method of a cast-in-place pile, comprising: burying a steel casing; carrying out impact holing: when a holing depth is above a bottom portion of steel casing, reaches bottom portion of steel casing, and reaches 3-4 m below bottom portion of steel casing, setting a hammering height to be 1-2 m, 0.4-0.6 m, and 2-3.5 m, correspondingly; fixing a reinforcement cage in a central position of steel casing; mounting a guide pipe: arranging a supporting structure at a bottom of guide pipe, and reserving a 30-50 cm gap between the guide pipe and a pile hole; manufacturing a pile body by pouring concrete into pile hole, filling the gap with concrete, and setting a depth of a lower end of guide pipe buried in concrete to be greater than 1.0 m; and processing a pile head. The invention can improve construction quality of cast-in-place pile.



21: 2024/05698. 22: 2024/07/23. 43: 2025/01/24

51: B07B

71: MUNTON, Timothy, John

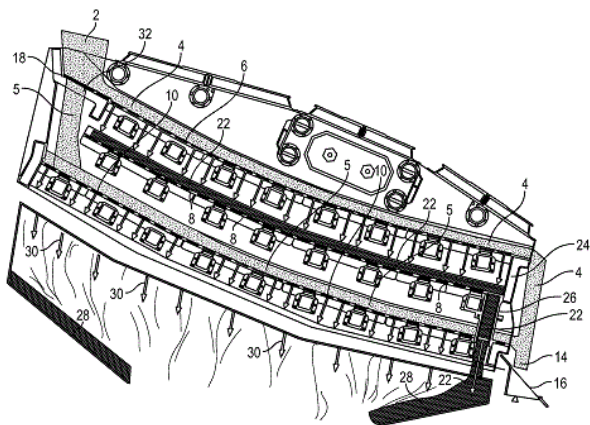
72: MUNTON, Timothy, John

33: ZA 31: 2022/01259 32: 2022-01-27

54: A TRIPLE DECK VIBRATORY SCREEN AND A METHOD OF USING A TRIPLE DECK VIBRATORY SCREEN

00: -

The invention provides a triple deck vibratory screen configured with a top (6) and a bottom (10) screening deck having the same aperture screening panels, and a middle deck (8) as a conveying deck on the triple deck vibratory screen to increase its screening area. Screening decks (6) and (10) are both fitted with the same aperture screening panels in order to separate the feed material into the same fractions of oversize and undersize products. The one split stream (4) flows normally along the top deck (6) and discharges off the end of the top deck (6). The fine screened undersize material (22) from under the top deck (6) is screened through the top deck (6) and onto the conveying middle deck (8). The oversize material (4) from the top deck (6) discharges over the end of said top deck (6) and joins the identical oversize material (5) from the bottom deck (10).



21: 2024/05711. 22: 2024/07/24. 43: 2025/01/27

51: E01D

71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

72: LIU, Jianyi, MA, Teng, ZHANG, Jinsheng, WEN, Changhong, LI, Zhengdao, LIU, Guoping, HUANG, Shengwei, ZHANG, Yunpeng, LIU, Haojie, ZOU, Liu

54: SAFE CONSTRUCTION METHOD FOR PREFABRICATED EXTERNAL FLUE OF SUPER HIGH-RISE BUILDING

00: -

The present invention discloses a safe construction method for a prefabricated external flue of a super high-rise building. In the present invention, the complexity and difficulty of on-site construction are reduced: the external flue can be prefabricated and inspected in a factory, while impact of on-site construction on the surrounding is also reduced. Maintenance is convenient: through provision of inspection hole and regular inspection, flue blockage can be promptly detected and resolved, facilitating long-term maintenance and management work by property management personnel. Factory production of a prefabricated component reduces pollution such as noise and dust during on-site construction, facilitating environmental protection. Optimizing a construction process and the production of the prefabricated component can reduce material and labor costs, improving economic efficiency. Overall building quality is improved: the safe construction method for a prefabricated external flue ensures the stability and air tightness of the flue system, thereby enhancing the overall quality and prolonging the service life of a super high-rise building.

21: 2024/05712. 22: 2024/07/24. 43: 2025/02/24

51: E01D

71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU

72: WANG, Shanfeng, YU, Huanteng, FENG, Ruli, PING, Xiaolei, DAI, Lihan, LI, Nan, LUO, yanhui, XIAO, Zhipeng, YE, Hao, PENG, Pan

54: COMPREHENSIVE CONSTRUCTION METHOD OF ROOF FLOWER TRELLIS BASED ON FRAME CLIMBING CONDITION

00: -

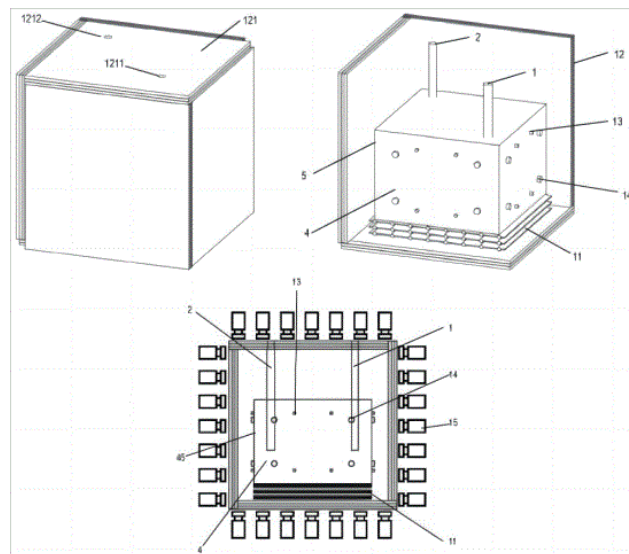
The present invention discloses a comprehensive construction method of a roof flower trellis based on a frame climbing condition. In the present invention, the combination of 90# petroleum asphalt and an APP modifier in a waterproof roll allows the waterproof roll to have excellent waterproof performance, which can effectively prevent water infiltration and ensure the drying of the roof and the safety of the flower trellis. With the addition of

naphthenic oil and talcum powder, the waterproof roll can withstand long-term use and environmental changes, and the service lives of the roof and the flower trellis are prolonged. With the addition of a HERBITECT root inhibitor, the root puncture resistance of the waterproof roll is improved, plant roots are effectively prevented from penetrating a waterproof layer and a roof structure is protected from being damaged. With the addition of filament polyester felt and an SBS material, good adhesion and construction performance are provided, so that the waterproof roll can be closely adhered to a roof base layer and the laying and welding are facilitated in a construction process. With the addition of BRA and activated carbon, the waterproof roll has better environmental protection property and safety, the release of harmful substances is reduced, and the health of construction personnel and the environment are protected.

21: 2024/05775. 22: 2024/07/26. 43: 2025/01/29
 51: G06Q
 71: Northeastern University
 72: Zaobao LIU, Jianyu XU, Jiasong YANG, Xiating FENG, Xiwei ZHANG, Xin WANG, Fei WANG, Yulong ZHANG, Chuan WANG, Ming WU
54: A GEOTHERMAL RESOURCE DEVELOPMENT SIMULATION SYSTEM BASED ON 3D PRINTING MODEL

00: -
 The invention relates to a geothermal resource development simulation system based on 3D printing model, which involves the field of high-temperature dry hot rock mining technology. The invention applies a true three-dimensional load to a large-scale deep three-dimensional physical model through a distributed load piston, and applies a temperature to the fracturing zone of the physical model through a heating component; the thermal property measurement system of physical model is used to obtain similar physical models with different thermodynamic properties. The servo fluid injection system is the power source for fracturing and reforming the fracturing zone of large-scale deep three-dimensional physical model. After the fracturing, physical model fracturing zone is obtained, and the servo injection system, the injection well, the physical model fracturing zone, the production well and the servo fluid production

system are connected to form the geothermal injection-production circulation system. The rock mass fracture monitoring system is used for real-time monitoring, heating, fracturing, regulating and optimizing the energy level released by the fracture of large-scale deep three-dimensional physical model in the injection-production process.



21: 2024/05776. 22: 2024/07/26. 43: 2025/01/29
 51: B66F
 71: MANITOU ITALIA S.R.L.
 72: IOTTI, MARCO
 33: IT 31: 102023000016635 32: 2023-08-03
54: SAFETY SYSTEM FOR OPERATING MACHINES

00: -
 A process for checking the safety of a self-propelled operating machine, such as, for example, a telescopic handler, in particular of the rotary type, equipped with an electrical system (2) and comprising the following steps: automatically checking whether in the system (2) there is a voltage equal to or greater than a predetermined risk threshold; if there is a voltage in the system (2) equal to or greater than the risk threshold, emitting a warning signal. A self-propelled operating machine is equipped with an electrical system (2) and comprises checking means (41, 42) designed to detect in the system (2) the presence of an electrical voltage greater than or equal to a predetermined risk threshold and to emit a warning signal following the detection.

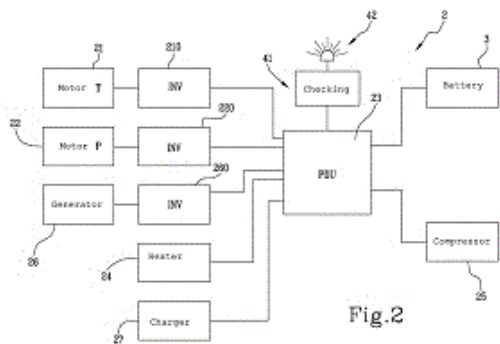


Fig.2

21: 2024/05848. 22: 2024/07/29. 43: 2025/02/19
 51: C08L
 71: HUHTAMAKI INDIA LIMITED
 72: SINGH, Ashwini Kumar, GUPTA, Uma Shankar (deceased)
 33: IN 31: 202221005297 32: 2022-01-31
54: A FILM COMPOSITION

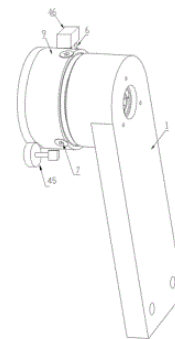
00: -
 A film composition The present invention relates to a film composition comprising acid copolymer in a range of 1 to 10%, metallocene Linear low-density polyethylene (LLDPE) in a range of 5 to 15%, low density polyethylene (LDPE) in a range of 5 to 10%, anti-block masterbatch in the range of 0.5 to 1%, high density polyethylene (HDPE) in a range of 20 to 50%, plastomer in a range of 5 to 30% and slip additive in a range of 0.5 to 1%. The invention further relates to a film made from the film composition and to a laminate made from the said film.

1000



21: 2024/05860. 22: 2024/07/30. 43: 2025/02/24
 51: B23P
 71: Suzhou Vocational University
 72: GU, Xing, HUAN, Yi, ZHAO, Hongping, GAI, Liwu
54: FOLLOW-UP ROLLING DEVICE FOR MACHINING SLENDER SHAFT PARTS
 00: -

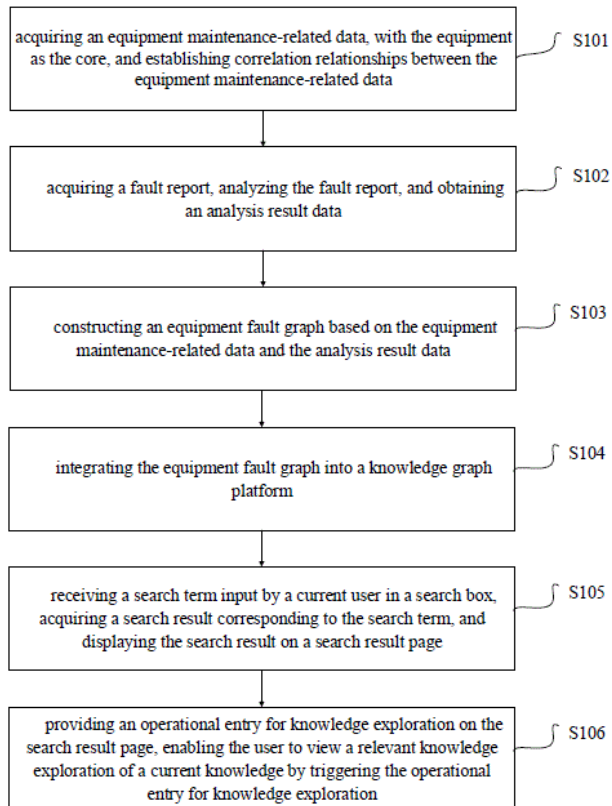
The present invention discloses a follow-up rolling device for machining slender shaft parts, and relates to the technical field of slender shaft part machining. The device includes a base, a follow-up assembly, a rolling assembly and a control component; wherein the control component is communicatively connected with the adjusting component and the driving component, and used to control actions of the adjusting component and the driving component to clamp and roll the part. The device improves the quality and efficiency of machining slender shaft parts, and reduces the labor intensity.



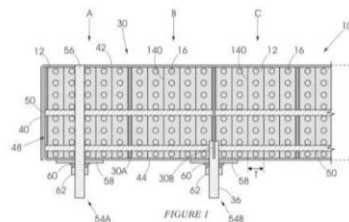
21: 2024/05926. 22: 2024/07/31. 43: 2025/02/07
 51: G06F
 71: Guangzhou Metro Group Co., Ltd., Guangzhou Swifton Digital Technology Co., Ltd.
 72: CAI, Changjun, CHEN, Xijuan, HE, Zhixin, ZHU, Wei, HOU, Feng, PENG, Yougen, ZHANG, Jie, LI, Zhaoxin, JIANG, Linming, WANG, Liang, LUO, Weiting, LI, Changqiang, LU, Qiao, YE, Hongxia
 33: CN 31: 202410628584.0 32: 2024-05-21
54: UNIFIED RETRIEVAL METHOD FOR VEHICLE PROFESSIONAL EQUIPMENT FAULTS BASED ON KNOWLEDGE GRAPH

00: -
 Disclosed are a unified retrieval method for vehicle professional equipment faults based on a knowledge graph. The method including: acquiring an equipment maintenance-related data, with the equipment as the core, and establishing correlation relationships between the equipment maintenance-related data; acquiring a fault report, analyzing the fault report, and obtaining an analysis result data; constructing an equipment fault graph based on the equipment maintenance-related data and the analysis result data; integrating the equipment fault graph into a knowledge graph platform; receiving a search term input by a current user in a search box, acquiring a search result corresponding to the

search term, and displaying the search result on a search result page, wherein the search result includes a result list, data classification statistics, search result sorting, knowledge cloud graph and association recommendation. This method solves the problem of insufficiently accurate search result in the prior art.



21: 2024/05940. 22: 2024/08/01. 43: 2025/02/05
 51: E04B; E04C
 71: ADAMS, Mark Harold
 72: ADAMS, Mark Harold, NEL, Zack Warren, BEZUIDENHOUT, Eugene Lourens
 33: ZA 31: 2023/07622 32: 2023-08-02
54: STRUCTURAL COMPONENT
 00: -
 A structural component which comprises a metallic frame including first and second cover plates which bound a space and, within the space, a plurality of resiliently deformable bodies which are arranged in a laminated configuration.



21: 2024/05941. 22: 2024/08/01. 43: 2025/02/05
 51: C09K
 71: NANTONG UNIVERSITY
 72: MIAO, Jianwen, LU, Qian
 33: CN 31: 2024104960297 32: 2024-04-23
54: A PREPARATION METHOD OF RED FLUORESCENT POWDER FOR WHITE LED
 00: -

The present invention discloses a method for preparing red fluorescent powder for white light LED. $Ba_{0.94-y}Bi_ySi_xMo_{1-x}O_4:Eu_{0.063+}, zCTAB$ fluorescent powder is synthesized by combustion using Bi_2O_3 , SiO_2 , MoO_3 , and Eu_2O_3 as reaction materials, CTAB as surfactant, and anhydrous ethanol as solvent. The red fluorescent powder for white LED produced by the present invention has stable performance and no pollution.

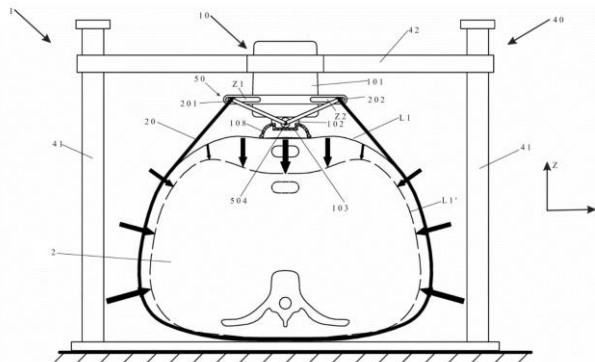
21: 2024/05944. 22: 2024/08/01. 43: 2025/02/05
 51: G06N
 71: Southwest university
 72: Dong Tao, Chou Junyi, Hu Wenjie
 33: CN 31: 2024108267974 32: 2024-06-25
54: A METHOD FOR EXTRACTING IMAGE ELEMENTS BASED ON PHASE-CHANGE NEURAL NETWORKS
 00: -

This invention relates to a method for extracting image elements based on phase-change neural networks. It includes the following steps: acquiring the original image and identifying the object contours within it; converting the original image to grayscale to obtain a grayscale image; dividing the grayscale image into a predetermined number of local images and determining the optimal threshold for each local image to distinguish between background and target images; calculating the graphical similarity between the contour of each target image and the corresponding object contour in the original image, and adjusting the optimal threshold accordingly at a second similarity level; detecting the number of noise points extracted from any local image

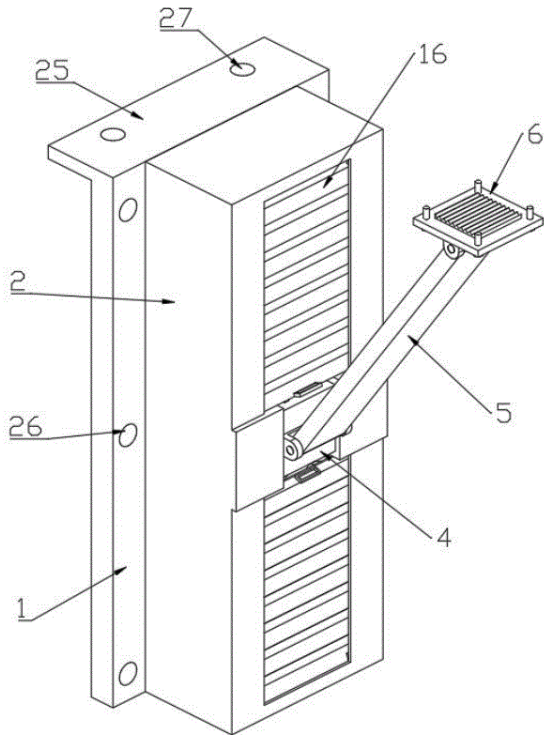
containing target images and adjusting the number of divided local images at a second quantity level; merging and reconstructing target images to output a binary image, smoothing the binary image to obtain a feature image; inputting the feature image into a neural network model to extract image elements. This invention enhances the clarity and accuracy of image element extraction.

21: 2024/05984. 22: 2024/08/02. 43: 2025/03/10
 51: A61H
 71: SUNLIFE SCIENCE (SUZHOU) INC.
 72: KONG, WEIFANG, ZHANG, JUNHUI, LIU, LIQIANG, CHEN, BEILI, CHEN, YOUGEN, ZHANG, ZIJIAN, CHEN, ZHAOXIA, ZHOU, CHUNHUA, LI, NING
 33: CN 31: 202322181223X 32: 2023-08-14
 33: CN 31: 2023110207572 32: 2023-08-14
54: CARDIOPULMONARY RESUSCITATION DEVICE FOR PERFORMING COMPRESSIONS ON THE CHEST

00: -
 The present disclosure relates to a cardiopulmonary resuscitation device for performing compressions on the chest, including: a compression device, which includes a compression head; a restraining band that can surround the chest and has a first end section and a second end section opposite to the first end section; and a coupling assembly for coupling the compression head of the compression device with the first and second end sections of the restraining band, so that during CPR, the first and second end sections of the restraining band can interact with the compression head, the first and second end sections of the restraining band can move towards each other along their respective predetermined trajectories when the compression head extends and move away from each other when the compression head retracts, to alternately achieve full circumferential compression and release of the chest. The cardiopulmonary resuscitation device according to the present disclosure can achieve improved compression effects and enhanced CPR efficiency.



21: 2024/06010. 22: 2024/08/05. 43: 2025/02/17
 51: E01D
 71: Anhui Science and Technology University
 72: CHANG, Shan, YUAN, Ling, SUN, Bi, MA, Lu, YUE, Xinxin, ZHANG, Wei, WU, Weidong
54: FALL-PREVENTION SEISMIC LIMITING DEVICE FOR BRIDGES
 00: -
 A fall-prevention seismic limiting device for bridges, characterized by comprising: a first mounting plate (1), a slide rail (2) installed on one side of the first mounting plate (1), a sliding groove (3) defined in the middle of the slide rail (2), a sliding block (4) slidingly engaged within the sliding groove (3), a support rod (5) pivotally connected to one side of the sliding block (4), and a second mounting plate (6) pivotally connected to the end of the support rod (5) opposite to the sliding block (4); wherein, two moving plates (7) and two moving blocks (8) are slidingly engaged within the slide rail (2), a connecting rod (9) pivotally connected to both the top and bottom of the sliding block (4), with the ends of the two connecting rods (9) remote from each other being pivotally connected to the respective opposite sides of the two moving plates (7), tension springs (10) installed between the opposite sides of the two moving plates (7) and the slide rail (2), and compression springs (11) installed between the sides of the two moving plates (7) remote from each other and the respective opposite sides of the two moving blocks (8); wherein, the slide rail (2) is elastically engaged with a fixed rod (13) cooperating with the sliding block (4), the ends of the fixed rod (13) are respectively provided with two insert rods (14) cooperating with the two moving blocks (8), pulleys (21) pivotally connected to both sides of the sliding block (4), and sliding tracks (22) defined on both sides of the sliding groove (3) cooperating with the pulleys (21).

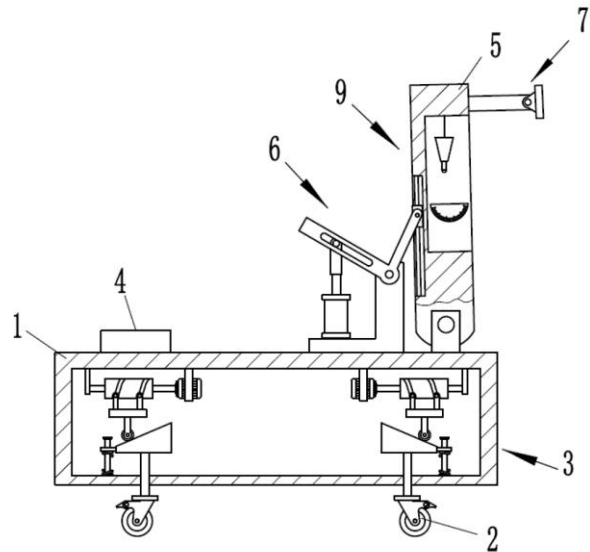


21: 2024/06063. 22: 2024/08/07. 43: 2025/02/07
 51: G01C
 71: Wenzhou Polytechnic
 72: Fang Liwei

54: A DEVICE FOR DETECTING PERPENDICULARITY OF ENGINEERING

00: -
 The invention provides a perpendicularity detection device for engineering, and relates to the technical field of building detection. The perpendicularity detection device comprises a base, four adjusting mechanisms, a measuring assembly and a detection assembly, the adjusting mechanism is arranged between the inner top wall of the base and the inner bottom wall of the base, the adjusting mechanism comprises a driving mechanism, a wedge block mechanism and a guide mechanism, the measuring assembly is hinged to the right upper end of the base, the measuring assembly is controlled and driven through a propelling mechanism on one side, and the propelling mechanism is fixed to the upper end of the base; the detection assembly is disposed on a measurement plate of the measurement assembly, and the detection assembly is accommodated in a groove of the measurement plate. According to the invention, the perpendicularity of the wall surface in the

constructional engineering can be conveniently measured.



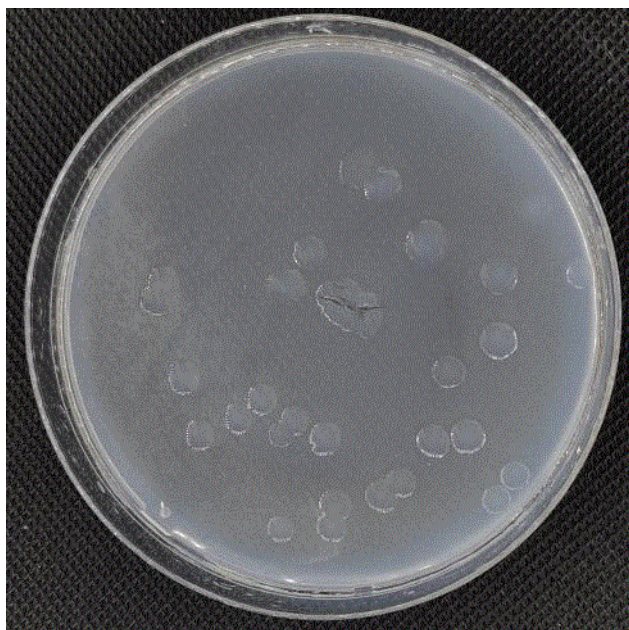
21: 2024/06070. 22: 2024/08/07. 43: 2025/02/12
 51: C12N

71: HUBEI MAOSHENG BIOLOGY CO., LTD.
 72: Yixin Zhou, Fei Huang, Qi Liu, Zhilei Tan, Wanyang Chen, Wei Li, Shibai Zhang, Yan Chen, Jie Huang, Hongshuan Qiu, Xianrong Yan, Yu Jiang, Deng Fan, Yineng Jiao, Bin Zhou

33: CN 31: 202311639573.4 32: 2023-11-30

54: A NITROGEN FIXATION GELATINOUS PAENIBACILLUS MSSW01 AND ITS APPLICATION

00: -
 The invention provides a nitrogen fixation gelatinous paenibacillus MSSW01 and its application, belonging to the technical field of nitrogen-fixing gelatinous paenibacillus. The nitrogen fixation gelatinous paenibacillus (*Panibacillus mucilaginosus*) MSSW01 of the invention is stored in the Chinese typical culture storage center, its address is: Wuhan University, Wuhan City, China, its deposit date is: 14th August, 2023, and its deposit number is: CCTCC NO: M20231471. The nitrogen fixation gelatinous paenibacillus MSSW01 has fast propagation speed and strong nitrogen-fixing ability, and the nitrogen-fixing bacteria agent prepared by the strain can promote seed germination, improve plant growth potential, and it can effectively improve soil environment.



21: 2024/06078. 22: 2024/08/07. 43: 2025/02/12
51: C22B

71: PANGANG GROUP PANZHUIHUA IRON & STEELRESEARCH INSTITUTE CO., LTD.

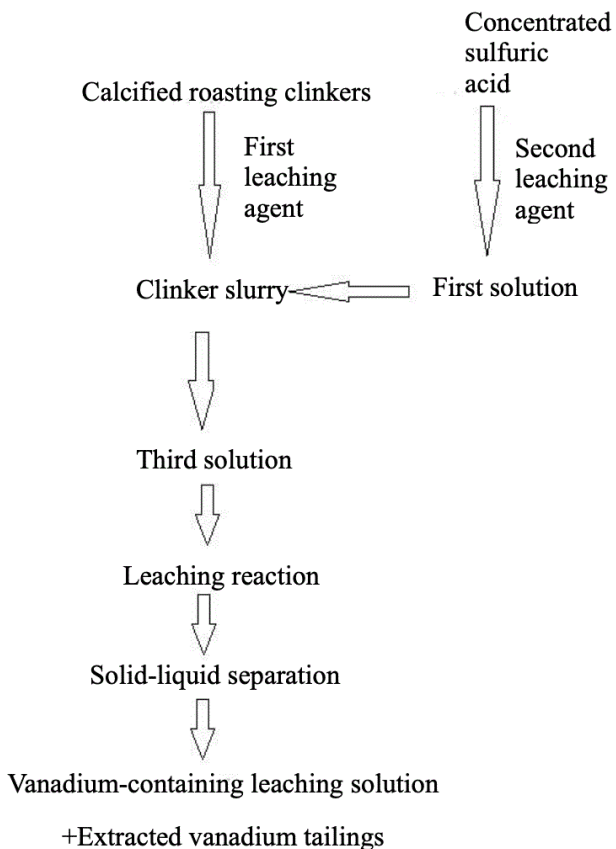
72: CHEN, Yan, YE, Lu, SHEN, Biao, PENG, Yi

33: CN 31: 202310380719.1 32: 2023-04-11

54: A METHOD FOR CONTROLLING AN ACID LEACHING PROCESS OF CALCIFIED ROASTING CLINKERS

00: -

The invention discloses a method for controlling an acid leaching process of calcified roasting clinkers, comprising dividing a leaching agent into two parts, one part for mixing with the calcified roasting clinkers to prepare clinker slurry, and the other part for diluting a concentrated sulfuric acid. The method for controlling an acid leaching process of calcified roasting clinkers is low in cost and easy and convenient to operate. The leaching agent is divided into two parts for use, one part for clinker pulping, the other part for diluting concentrated sulfuric acid for leaching. Then the leaching agent containing sulfuric acid is added to the clinker slurry to improve the ratio of slurry to solid, and achieve rapid leaching of vanadium. This method avoids the problems of high local acidity, high temperature and high impurity content caused by direct addition of concentrated sulfuric acid.



21: 2024/06085. 22: 2024/08/07. 43: 2025/02/12
51: B29B; C10B; C10G

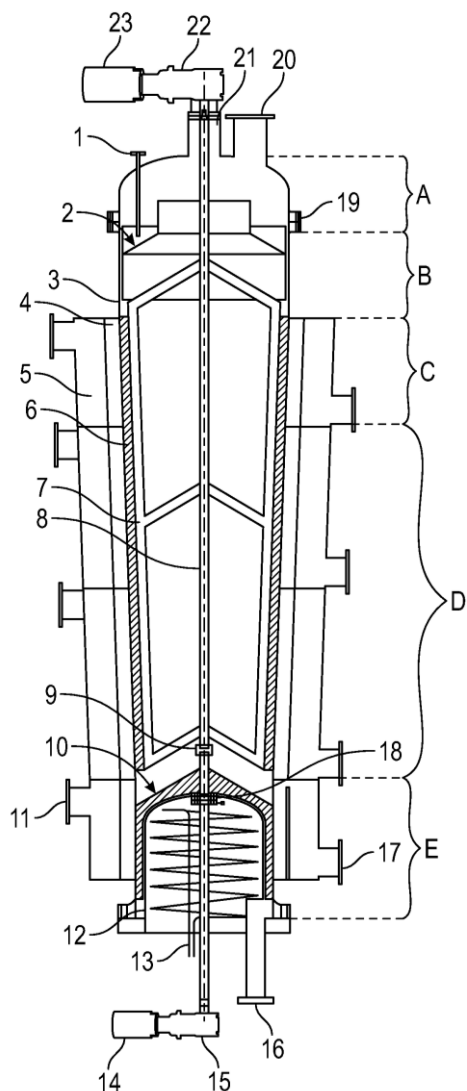
71: LUMMUS TECHNOLOGY LLC

72: GUYMON, David Lee, FERNALD, Daniel T., HERBANEK, Ron, JIBB, Richard John, CHAKRABORTY, Sudipto, COMBS, Johnny Doyle, LINDSEY, Boddie Lynn, MAYS, Zachary Alan
33: US 31: 63/266,801 32: 2022-01-14

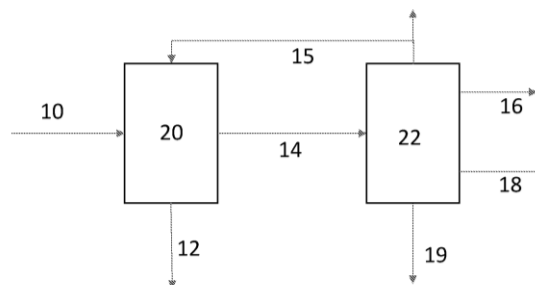
54: PLASTIC PYROLYSIS REACTOR

00: -

A system for converting waste plastic material to petrochemicals. The system includes a feed inlet and distributor zone, a raked film reaction section located below the feed inlet and distributor zone, and a stirred tank reaction section located below the raked film reaction section.



pyrolysis temperature and maintaining the waste plastic at the pyrolysis reaction temperature for a time period to convert a portion of the waste plastic to a pyrolyzed product and a pitch. The process further includes recovering the pyrolyzed product and recovering the pitch.



21: 2024/06094. 22: 2024/08/08. 43: 2025/02/12
51: G01B

71: XINYU UNIVERSITY

72: Siyong Fu, Qinghua Zhao, Qiuxiang Tao, Hesheng Liu, Danjuan Liu, Qing Wang

33: CN 31: 202311287162.3 32: 2023-10-07

54: A 3D SCANNER MEASURING DEVICE

00: -

This invention discloses a 3D scanner measuring device, the key technical solution of which includes: a box, the top of which is rotatably connected to a lid with a handle on its top. Inside the box, the bottom surface is connected to a fixed plate. Operators can rotate the position of the second rod such that it revolves around the first rod as the center until the axis of the second rod aligns with the axis of the first rod. Fixed components are set to secure the angle of the second rod, facilitating subsequent measurements of the antenna azimuth. The angle of the second rod can also be finely adjusted and secured by the fixed components, allowing the 3D scanner to measure the antenna azimuth at an appropriate angle. Furthermore, the set movable components can also move the position of the first rod, allowing the first rod to drive the second rod. This enables both the first and second rods, along with the 3D scanner on the second rod, to measure the antenna azimuth at a better angle and position.

21: 2024/06086. 22: 2024/08/07. 43: 2025/02/12

51: B29B; C10B; C10C; C10G

71: LUMMUS TECHNOLOGY LLC

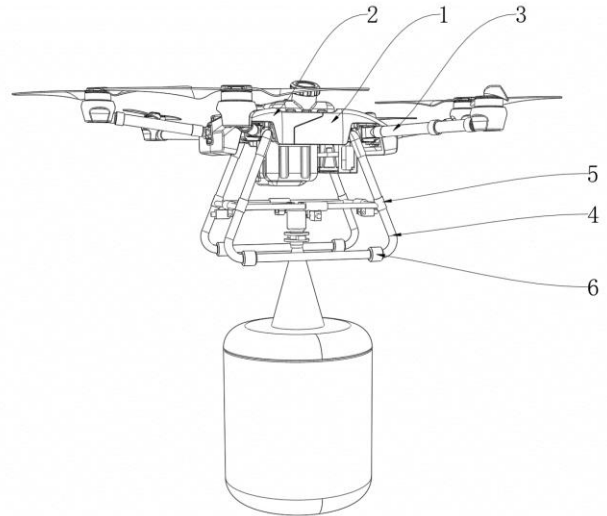
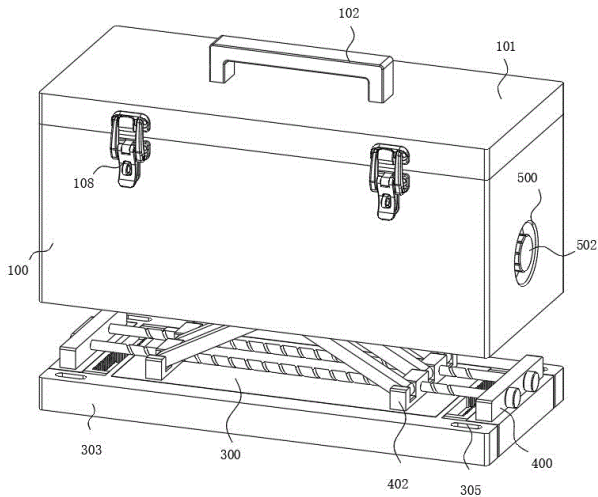
72: CHAKRABORTY, Sudipto, CHEN, Liang, CHU, Te-Chun, SOM, Manoj, GUYMON, David Lee, FERNALD, Daniel T., JIBB, Richard John, HERBANEK, Ron

33: US 31: 63/266,809 32: 2022-01-14

54: PLASTIC PYROLYSIS HEATING/REACTION RECIPE

00: -

Systems and processes for pyrolyzing waste plastics, including, in one or more heating stages, heating a waste plastic from an initial temperature to a peak pyrolysis temperature, and, in a final pyrolysis stage, providing heat input sufficient to maintain a temperature of the waste plastic at a pyrolysis reaction temperature less than the peak



21: 2024/06096. 22: 2024/08/08. 43: 2025/02/12
51: B63C

71: Yantai Nanshan University

72: Yongxing ZHANG, Haozhi WANG, Jingwen ZHOU

54: SEARCH AND RESCUE DEVICE BASED ON UNMANNED AERIAL VEHICLE AND SEARCH AND RESCUE METHOD THEREFOR

00: -

The present invention provides a search and rescue device based on an unmanned aerial vehicle (UAV) and a search and rescue method therefor, falling within the technical field of UAVs. The search and rescue device based on an UAV includes a first housing and a second housing; the outer walls of the first housing and the second housing penetrate and are provided with a support rod, the same side of the first housing and the second housing penetrates and is fixedly connected to a lifting support leg, a fixing ring is fixedly connected to both front and rear sides of the middle of the outer ring of the lifting support leg, a search and rescue assembly is provided between adjacent fixing rings, a connecting rod is fixedly connected to the inner side of the fixing ring, and mounting pieces are provided at the bottom of the four connecting rods. Through remotely controlling the release of the cartridge, food, self-provided with food, self-help devices and medical treatment tools, etc. which help the trapped personnel relieve the safety threat to a certain extent, increase the survival time, provide valuable time for the search and rescue personnel, and improve the search and rescue effect.

21: 2024/06108. 22: 2024/08/08. 43: 2025/02/24
51: A61B; A61C

71: IMPLANT PROTESIS DENTAL 2004 S.L.

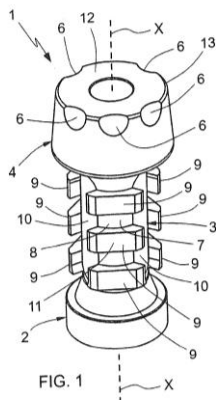
72: NIEVES PÉREZ, Miguel Ángel

33: EP 31: 22382274.3 32: 2022-03-24

54: SCAN ABUTMENT FOR DENTAL IMPLANTS, METHOD FOR CREATING A MODEL, AND USE OF THE SCAN ABUTMENT

00: -

The present invention relates to a scan abutment (1) for dental implants comprising a coupling base (2) for being coupled to a dental implant, a rod (3) extending from the coupling base (2) along an axis (X), and a scan head (4) formed at one end of the rod (3). The scan head (4) comprises at least one singular area (5, 6) that can be recognized by an optical scanner system for determining a position and an orientation of the scan abutment (1). The rod (3) comprises a shaft (7) with an outer surface (8) and retaining projections (9) extending from the shaft (7), radially with respect to the axis (X), from the outer surface (8) of the shaft (7). The invention also comprises a method for forming a model of an upper or lower jaw region using the scan abutment (1).



at least one unmixed, especially unblended, regional domain (10, 20) of only the first or second colour. Preferably, the domain (10, 20) may be uncontaminated by and/or visually distinct from the other colour. Thereby, the first thermoplastic component (1) and the at least one second thermoplastic component (2) are mutually mixable, especially blendable and/or chemically compatible, materials, when in their thermoplastic melted states. Further, a corresponding injection-moulding method for manufacturing of said injection-moulded product (100) of bi- or multicoloured appearance is provided.

21: 2024/06109. 22: 2024/08/08. 43: 2025/02/24

51: F42C; F42D

71: DETNET SOUTH AFRICA (PTY) LTD

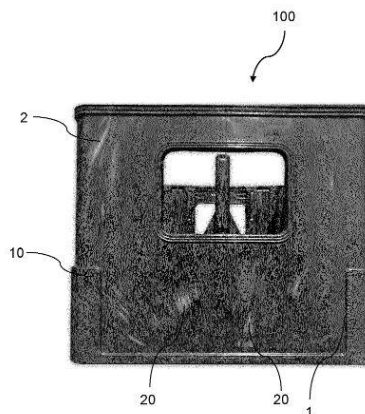
72: KRUGER, Michiel Jacobus

33: ZA 31: 2022/04390 32: 2022-04-20

54: FAILSAFE DETONATOR

00: -

An electronic detonator which has a conductive housing which, in the event of a misfire of the detonator, is deformed by an external blast to form a part of a circuit which allows for the detonator to be fired.



21: 2024/06134. 22: 2024/08/08. 43: 2025/02/13

51: C23C

71: HYDROMECHANIQUE ET FROTTEMENT

72: HERRMANN, Luc, BARRALON, Jérémy,

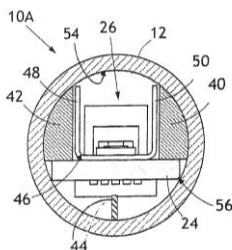
MEUNIER, Cédric

33: FR 31: 2202215 32: 2022-03-14

54: METHOD FOR TREATING A PART MADE OF IRON ALLOY FOR IMPROVING THE ANTI-CORROSION PROPERTIES THEREOF

00: -

The present invention relates to a method for treating a part (P) made of iron alloy for improving the anti-corrosion and mechanical strength properties thereof, the method comprising: - a salt bath nitriding or salt bath nitrocarburising step, to form a combination layer (1) on the part (P), and subsequently - a step of phosphating the part (P), to form a phosphating layer (2) on the surface of the part, characterised in that the bath of molten salts contains chlorides, and the phosphating step is carried out in a phosphating bath which contains zinc ions and/or manganese ions, and iron ions.



21: 2024/06114. 22: 2024/08/08. 43: 2025/02/13

51: B29C

71: SCHOELLER ALLIBERT GMBH

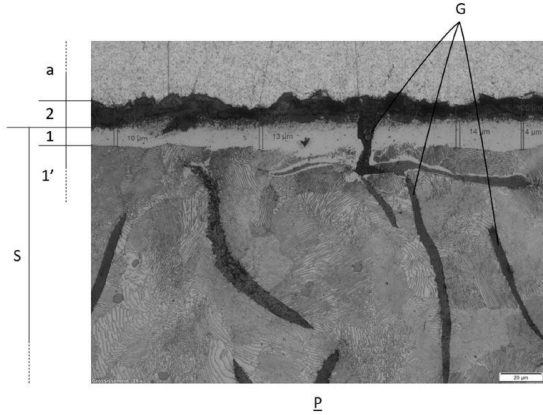
72: JURGENS, Albert, WEVER, Carlos

33: EP 31: 22158667.0 32: 2022-02-24

54: BICOLOURED INJECTION-MOULDED PRODUCT AND BI-COLOUR INJECTION-MOULDING METHOD

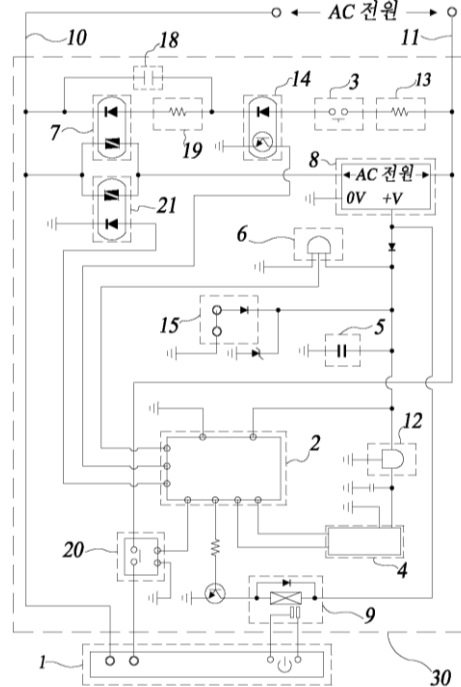
00: -

An injection-moulded product (100) of bi- or multicoloured appearance comprises a first thermoplastic component (1) of a first colour that is a base colour, and at least one second thermoplastic component (2) of another colour that is different to the first colour. Thereby, the injection-moulded product (100) of bi- or multicoloured appearance has



21: 2024/06135. 22: 2024/08/08. 43: 2025/02/13
 51: G01R; H02J
 71: KIM, Byongho
 72: KIM, Byongho
 33: KR 31: 10-2022-0006775 32: 2022-01-17
 33: KR 31: 10-2022-0161572 32: 2022-11-28
54: STANDBY POWER CUT-OFF DEVICE
 00: -

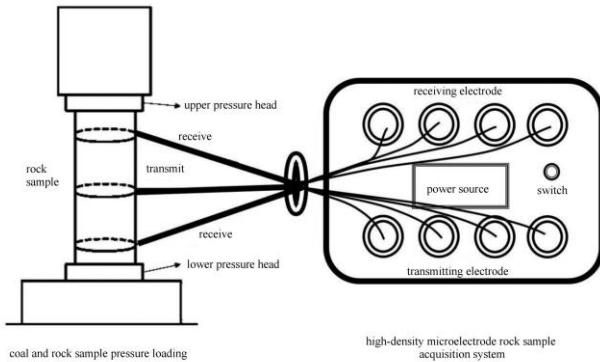
A standby power cut-off device installed on a power line connecting an external commercial alternating current power and the inside of an electrical device comprises: a manual switch for supplying the commercial alternating current power or cutting off the supply of same; a solid-state relay for supplying the commercial alternating current power to an output side when current flows through an input side according to the operation of the manual switch; a low power supply unit for converting voltage of the commercial alternating current power supplied by the solid-state relay and supplying same; a microprocessor for receiving power from the low power supply unit and controlling the operation of the standby power cut-off device; a power storage unit which receives power from the low power supply unit so as to be charged, and supplies power to the microprocessor; and a control signal generator for transmitting a control signal to the microprocessor when current flows according to the operation of the manual switch, wherein, when the manual switch is operated, the microprocessor performs the operation control of turning on or off by using a control method of determining that the manual switch has finally stopped operating, so that an erroneous operation caused by multi-operation control of the microprocessor due to the plurality of control signals is prevented.



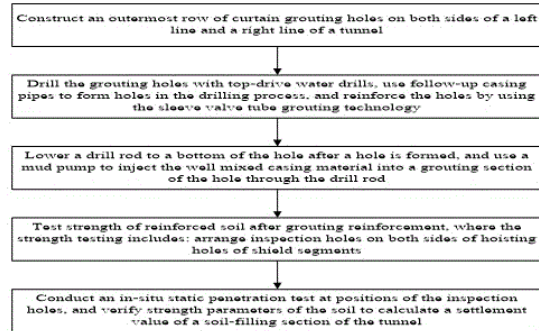
21: 2024/06140. 22: 2024/08/12. 43: 2025/02/13
 51: G01N
 71: China University of Mining and Technology
 72: SU, Benyu, YU, Jingcun, TAN, Dengpan, TANG, Yu, HUANG, Maolin, LI, Beibei, QIAN, Meiqi, SUN, Tongyi
 33: CN 31: CN202311643693.1 32: 2023-12-04
54: MICRO DC RESISTIVITY 3D INVERSION IMAGING METHOD FOR DYNAMIC DAMAGE MONITORING OF ROCK AND SOIL
 00: -

The invention discloses a micro DC resistivity 3D inversion imaging method for dynamic damage monitoring of rock and soil, which relates to the technical field of research on the mechanism of coal and rock dynamic disasters. And includes the following steps: collect electric field signals of rock samples; perform 3D resistivity inversion fitting calculation on the electric field signals to obtain a 3D resistivity data volume; analyze the 3D resistivity data volume to obtain resistivity distribution characteristics under different pressures, and summarize the mechanism of coal and rock dynamic disasters. In the present invention, contact electrodes are used to actively transmit detection signals to coal and rock samples and receive coal and rock response signals, so that environmental electromagnetic noise can be effectively resisted. An unstructured grid is used to perform micron-level

segmentation on the coal and rock samples, and 3D inversion imaging is performed on electric field signals acquired under different pressure states, so that internal cracks of the coal and rock samples can be effectively characterized, and detailed. The target object is the size scale level of the rock samples, which can be measured under different temperatures, different humidity, and different pressure conditions. The distribution state of cracks in an in-situ state can be acquired by simulating the measurement of the in-situ state.



strength testing includes: arranging inspection holes on both sides of hoisting holes of shield segments; and conducting an in-situ static penetration test at positions of the inspection holes, and verifying strength parameters of the soil to calculate a settlement value of a soil-filling section of the tunnel. The method effectively improves construction efficiency, and ensures the safety of constructing a shield tunnel in a soil-filling section. Further, the method saves an engineering investment cost, and avoids environmental pollution caused by cast-in-place concrete construction.

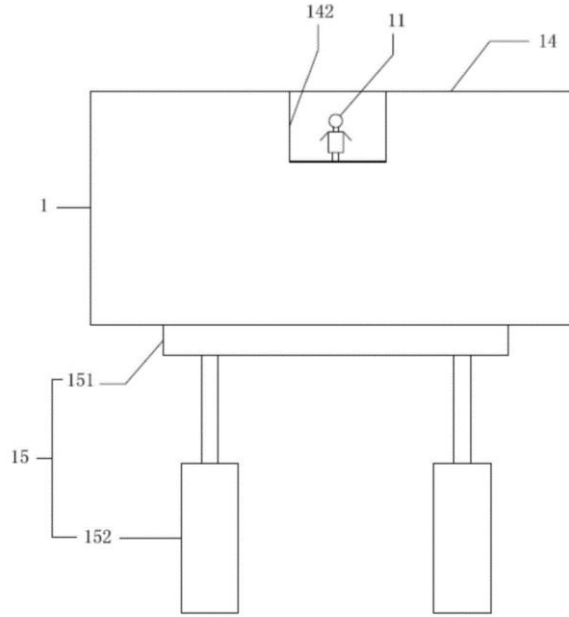


21: 2024/06144. 22: 2024/08/12. 43: 2025/02/13
 51: E02D; E21B; E21D; E21F; G01N
 71: CHONGQING RAIL TRANSIT DESIGN AND RESEARCH INSTITUTE CO., LTD.
 72: ZENG, Linghong, MA, Hu, ZHANG, Rong, ZOU, Guangjiong, PENG, Hui, MEI, Lesheng, FANG, Sheng, PAN, Weijun, MA, Qiang, YI, Yi, ZHOU, Yongfeng, ZHANG, Wenyu, WANG, Bin
 33: CN 31: CN202311062510.7 32: 2023-08-22
54: METHOD FOR REINFORCING AND TESTING SHIELD SOIL IN HIGH-FILL EMBANKMENT SECTION

00: -
 Disclosed is a method for reinforcing and testing shield soil in a high-fill embankment section, including the following steps: constructing an outermost row of curtain grouting holes on both sides of a left line and a right line of a tunnel; drilling the grouting holes with top-drive water drills, using follow-up casing pipes to form holes in the drilling process, and reinforcing the holes by using the sleeve valve tube grouting technology; lowering a drill rod to a bottom of the hole after a hole is formed, and using a mud pump to inject the well mixed casing material into a grouting section of the hole through the drill rod; and testing strength of reinforced soil after grouting reinforcement. The

21: 2024/06145. 22: 2024/08/12. 43: 2025/02/13
 51: G06T
 71: Li Yuxuan, Xuan Zhang, Chen Yixuan
 72: Li Yuxuan, Xuan Zhang, Chen Yixuan
54: AN INTERACTIVE EXPERIENCE SYSTEM COMBINING AR TECHNOLOGY AND 3D MODELING

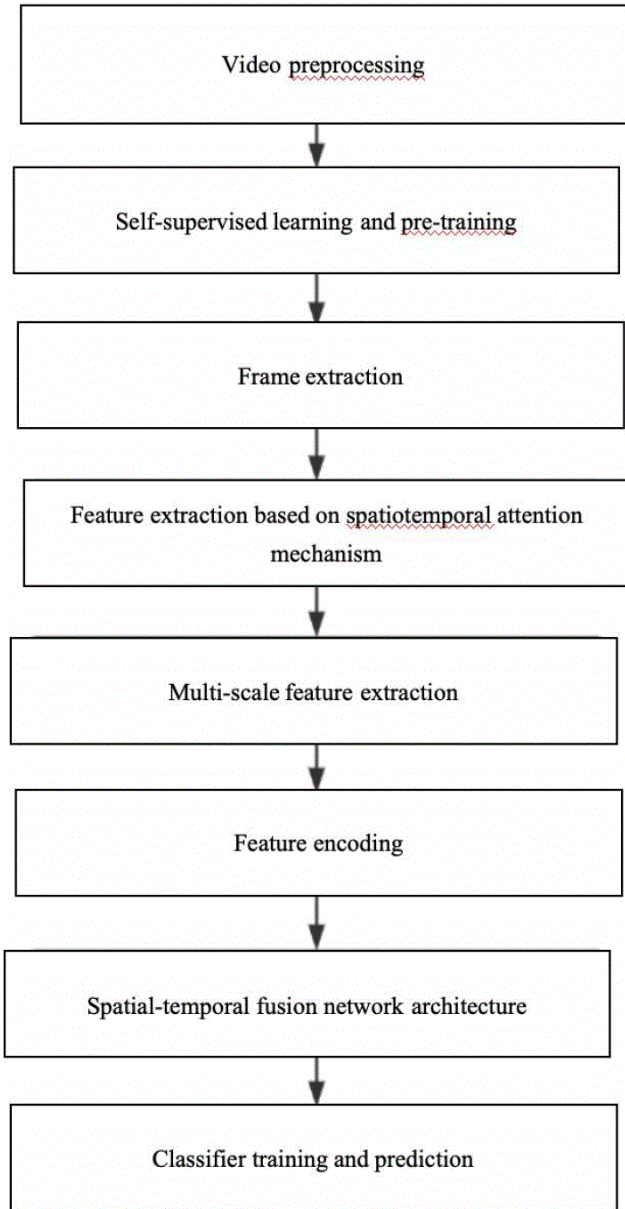
00: -
 The AR glasses include a lens, a camera, a memory and a second processor, the camera is used to collect images of objects within the field of view of the wearer of the AR glasses, the first processor and the second processor are connected by wireless communication, and the second processor is used to obtain the collected images of objects in real time, identify whether there is a 3D printed model within the field of view of the wearer of the AR glasses, and identify the model model when there is a 3D printed model. Compared with the existing technology, this invention realizes the combination of virtual and real display of the 3D printed product model with AR glasses, and the product model interacts effectively with the AR glasses.



21: 2024/06146. 22: 2024/08/12. 43: 2025/02/13
 51: G06K
 71: Zhejiang University of Science and Technology
 72: Ding Weiqin, Yang Shengying, Shi Wenbin,
 Song Wei, MARTAMULIA VELIA, CHOMPOONUT
 UPPATHAM, Han Xiaolong, Zhao Dandan
**54: A VIDEO CLASSIFICATION METHOD BASED
 ON SPATIOTEMPORAL ATTENTION**

00: -
 The invention relates to the field of video classification technology, specifically to a video classification method based on spatiotemporal attention. The method includes video preprocessing, self-supervised learning and pre-training, frame extraction, feature extraction based on spatiotemporal attention mechanisms, multi-scale feature extraction, feature encoding, spatiotemporal fusion network architecture, and classifier training and prediction. In this invention, the spatiotemporal attention mechanism effectively captures dynamic changes in videos and complex background features, while multi-scale feature extraction enhances the recognition capability for complex events. Self-supervised learning pre-trains on unlabeled data, reducing reliance on labeled data, lowering costs, and enhancing model generalization. BoVW and Fisher Vectors encoding improve feature discrimination and representation ability. The spatiotemporal fusion network architecture that combines CNN and LSTM improves the accuracy of

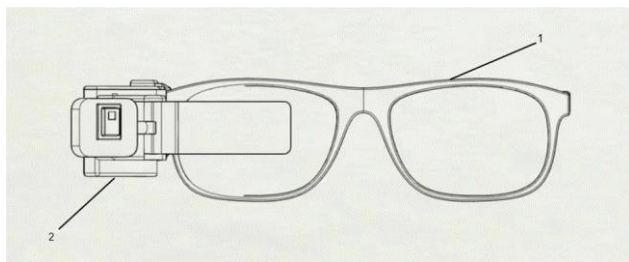
dynamic change and continuous action recognition, as well as the robustness of the model.



21: 2024/06151. 22: 2024/08/12. 43: 2025/02/13
 51: G06K
 71: Chen Yixuan, Xuan Zhang, Li Yuxuan
 72: Chen Yixuan, Xuan Zhang, Li Yuxuan
**54: AN ADAPTIVE ENVIRONMENTAL
 BRIGHTNESS IMAGE RECOGNITION SYSTEM
 BASED ON EMBEDDED SYSTEM**

00: -
 Existing image recognition techniques have large fluctuations in performance under different lighting conditions, especially in low illumination or high

contrast environments, where the accuracy and stability of image recognition is difficult to ensure. In addition, existing technologies mostly rely on fixed image processing algorithms, and lack the ability to adapt to changes in environmental brightness. The influence of environmental brightness on the accuracy of image recognition and the problem of multi-scene adaptability are two technical difficulties in image recognition. Different lighting conditions, such as indoor low light, outdoor strong light, or rapidly changing lighting environments, can cause significant changes in the brightness and contrast of an image. In order to solve the above problems, the present invention provides an adaptive environmental brightness image recognition method and device based on an embedded system, which are capable of automatically adjusting the image acquisition and processing parameters according to the changes in the environmental brightness to improve the accuracy of image recognition.



21: 2024/06158. 22: 2024/08/12. 43: 2025/02/24

51: E04G

71: Wuhu Institute of Technology

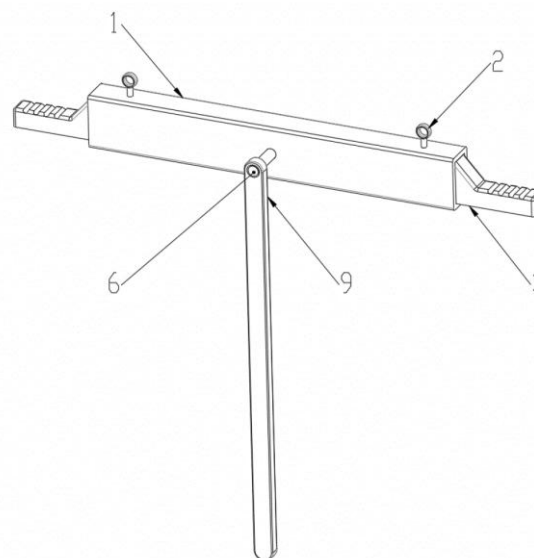
72: LU Yufen, ZHUANG Huaxia, PENG Pei, JIANG Weijun

54: A KIND OF GREEN ASSEMBLY BUILDING WALL INSTALLATION AUXILIARY EQUIPMENT

00: -

The present invention discloses a green assembly building wall installation auxiliary equipment, relates to the technical field of assembly building construction, including a lifting shell, lifting lugs mounted on the lifting shell, and a load-bearing block, said load-bearing block is slidingly connected to openings at both ends of the lifting shell, said load-bearing block is used for connecting with a lifting ring on the wall, a driving mechanism is mounted in the lifting shell for controlling the sliding of the load-bearing block, said driving mechanism is used to control the load-bearing block to snap or disengage with the lifting ring. Said drive mechanism

is used to control the load-bearing block and the lifting ring to snap together or detach, the present invention through the lifting shell, the load-bearing block and the drive mechanism of the cooperation settings, can in the wall installation is completed, the staff on the ground can be lifting equipment and the lifting ring on the wall fast separation, without manual use of climbing tools to climb up to separate the operation, improve the efficiency of the assembly building wall installation, and reduces the safety risk of manual climbing operation. It also reduces the safety risk of manual climbing operation.



21: 2024/06169. 22: 2024/08/12. 43: 2025/02/13

51: A61K; C07D; A61P

71: ACERAND THERAPEUTICS (HONG KONG) LIMITED

72: WEI, Yi, LI, Wenming, YUAN, Hongbin, ZHOU,

Guoqiang, LIU, Kun Chin, KANG, Kai, LI, Manhua

33: CN 31: 202210039229.0 32: 2022-01-13

33: CN 31: 202210640587.7 32: 2022-06-07

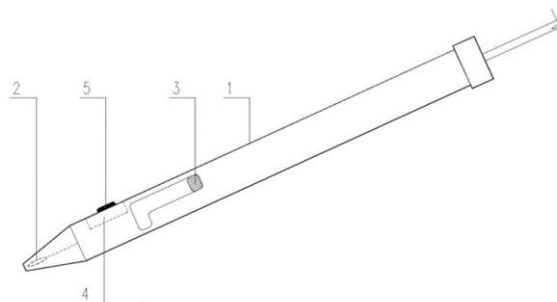
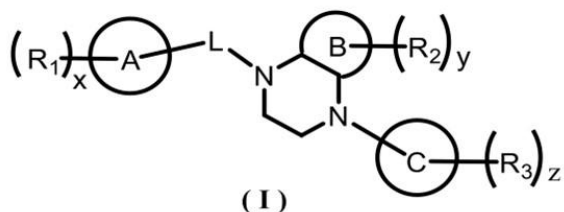
33: CN 31: 202211742481.4 32: 2022-12-30

54: PIPERAZINO RING-CONTAINING DERIVATIVE, PHARMACEUTICALLY ACCEPTABLE SALT THEREOF, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF

00: -

Provided are a piperazino ring derivative represented by formula (I), a pharmaceutically acceptable salt thereof, a preparation method therefor, and a pharmaceutical composition containing said compound, as well as the use of the

compound as a polyadenosine diphosphate ribose (ADP-ribose) polymerase (PARP) inhibitor in the treatment of a cancer, inflammation, a metabolic disease, a cardiovascular disease, an immunological disease, a mental disorder, or a related disease.

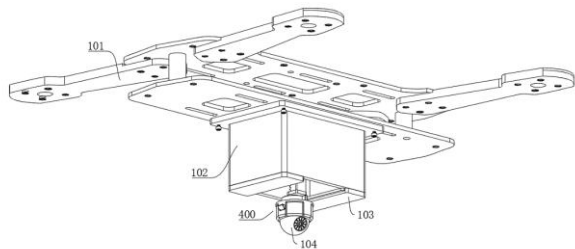


21: 2024/06183. 22: 2024/08/13. 43: 2025/02/24
51: A61F
71: QuZhou People's Hospital (The Central Hospital Of Qu Zhou)
72: Feng Chunyun, Guan Rijian, Tong Yuhua
54: A NEW TYPE OF ANTERIOR CAPSULE MEMBRANE TEARING DEVICE
00: -

The invention discloses a new type of anterior capsule membrane tearing device, which relates to the field of medical apparatus and instruments, including a barrel handle, the barrel handle is a hollow cylinder, the front section of the barrel handle is installed with a retractable electrode ring, the tail of the barrel handle is electrically connected with a plug, the electric ring of the invention can conveniently cut anterior capsule membrane, and the incision is smooth, the capsule bag has a good stability, because it will not be radially split to the periphery. In addition, it is suitable for cataract patients with various conditions, which can significantly increase the success rate of surgery; The operation process is simple: the diameter of the electrode ring after unfolding is the appropriate diameter for surgical capsulorhexis, which simplifies the operation process. The operation time is shortened: the anterior capsule membrane tearing device saves the time of capsular amputation and capsular tearing, shortens the operation time; The efficiency of operation is high: the operation is simple, the cost of production is low, which is cost-effective, so it's suitable for promotion and use in various medical environments.

21: 2024/06184. 22: 2024/08/13. 43: 2025/02/24
51: F16M
71: Chuzhou University
72: Wang Zongfei, Dai Yifeng, Liu Wei, Qi Xiaorui, Jiang Ling
54: A REMOTE SENSING SURVEYING AND MAPPING GEOGRAPHIC INFORMATION DATA ACQUISITION TOOL
00: -

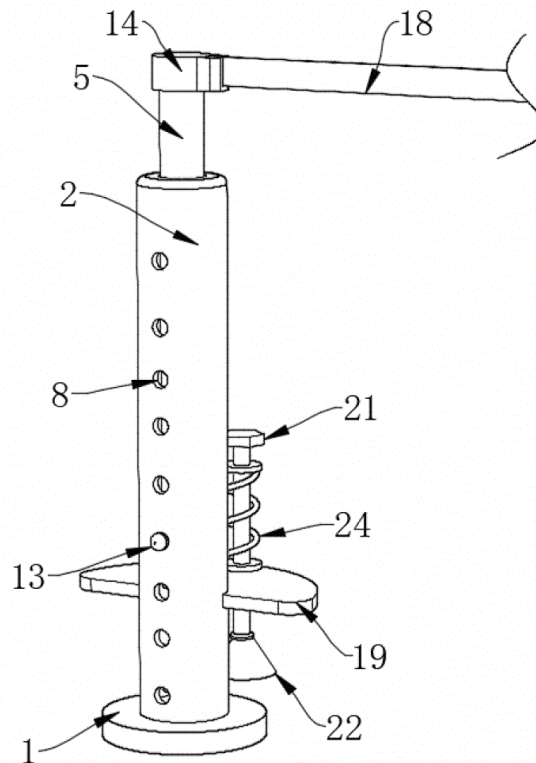
The invention relates to the technical field of engineering surveying and mapping, in particular to a remote sensing surveying and mapping geographic information data acquisition tool, which is characterized in that the main body of the UAV is provided with a protection frame, the protection frame is symmetrically provided with a bottom plate, the protection frame is provided with a remote sensing surveying and mapping instrument, and the protection frame is provided with a lifting mechanism for driving the remote sensing surveying and mapping instrument to move up and down. The lifting mechanism is provided with an installation mechanism for quick installation with the remote sensing mapper, and the protection frame is provided with a protection mechanism for cooperating with the lifting mechanism and protecting the remote sensing mapper. The invention drives the gear to rotate by rotating the shaft, and the gear drives the rack and the remote sensing mapper to move upward. At this time, the rotating shaft drives the winding roller to rotate so that the connecting rope and the winding roller are unlocked, and the first return spring drives the protective plate to seal the lower part of the protective frame, so that the remote sensing mapper can be protected in the extreme weather when the protective plate and the protective frame are met in the surveying and mapping.



21: 2024/06185. 22: 2024/08/13. 43: 2025/02/13
 51: E01F
 71: Wuhan Polytechnic University
 72: HU Canwei, ZHANG Linxia, HUANG Meng, GUO Tiantian, LI Juan, JING Qi, JING Yaxin, LI Pingqian, ZHANG Tianyi, PENG Yan

54: GUIDING DEVICE FOR CULTURAL TOURISM
 00: -

The present invention relates to the technical field of tourism guiding devices and discloses a guiding device for cultural tourism, including a base, the upper side of the base is fixedly connected with a support column, the inner lower side of the support column is fixedly connected with a first spring, the top end of the first spring is fixedly connected with a moving plate, the upper side of the moving plate is fixedly connected with a fixed column, the rear side of the moving plate is fixedly connected with a limiting block, the front side of the support column is provided with uniformly distributed through holes, the front side of the fixed column is provided with a groove, the inside of the groove is fixedly connected with a telescopic rod, the outside of the telescopic rod is sleeved with a second spring, the output end of the telescopic rod is fixedly connected with a connecting block. In the present invention, it is achieved that the device can be reinforced and supported, the overall fixed stability is improved, and it is not easy to tip over. Moreover, it is achieved that it is convenient for the staff to adjust the overall height of the device, thereby improving the application range of the device.

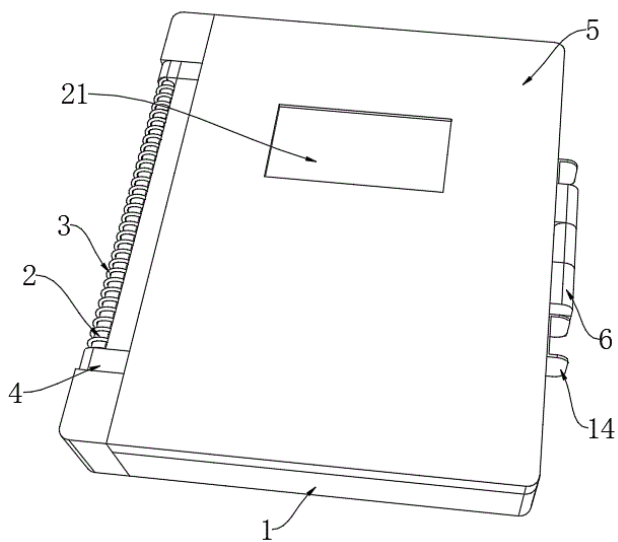


21: 2024/06186. 22: 2024/08/13. 43: 2025/02/13
 51: B42F

71: Wuhan Polytechnic University
 72: GAO Yan, XIONG Kai, WEN Xianpu
54: REPORT FOLDER BASED ON SELF-GENERATED STICKY NOTES FOR MANAGEMENT
 00: -

The present invention relates to the technical field of report folders and discloses a report folder based on self-generated sticky notes for management, including a bottom box, the inner side of the bottom box is rotatably connected with a rotating rod, the outer part of the rotating rod is sleeved with a torsion spring, the outer side of the rotating rod is fixedly connected with a connecting block, one side of the connecting block is fixedly connected with a top cover, one side of the top cover is fixedly connected with two fixed blocks I, the inner sides of the two fixed blocks I are rotatably connected with a rotating block I, the outer sides of the rotating block I are fixedly connected with clamping columns on both sides, the outer side of the bottom box is fixedly connected with two mounting blocks. In the present invention, by flipping the top cover to fit the top of the bottom box, and then rotating the rotating block I so

that the two clamping columns squeeze the triangular block, one side of the triangular block can block the clamping column, so that one side of the top cover can be attached to the top of the bottom box, and multiple back plates and sticky notes can be stored inside the bottom box and the top cover, avoiding direct contact with the outside world, which can improve the protection effect of the sticky notes.



21: 2024/06187. 22: 2024/08/13. 43: 2025/03/13
51: A63B

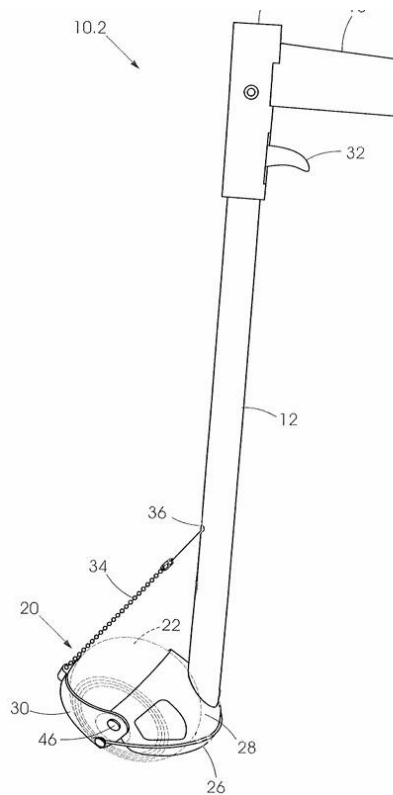
71: PIETERSE, Peter Barend

72: PIETERSE, Peter Barend

54: A BOWLING ARM

00: -

The invention provides a bowling arm which includes a shaft extending in a first direction and having a first end and a second end, a handle, a bowl holding assembly at the second end, which comprises a static support component and a moveable retaining component which is pivotally connected to the support component to move relatively to the support component between a closed position, enabling retention of a bowl within the holding element, and an open position, enabling the release of the bowl from the holding element, a biasing element which biases the retaining component into the closed position and a release mechanism which is actuatable to move the retaining component from the closed position to the open position.



21: 2024/06188. 22: 2024/08/13. 43: 2025/02/13
51: A23L

71: Zhaoqing Tianying Biotechnology Co., Ltd.

72: Meiqing Liang, Zhuguang He, Yongquan Liang

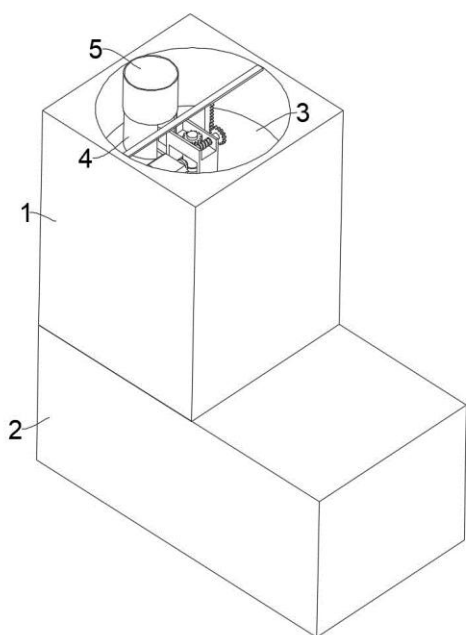
33: CN 31: 202410311628.7 32: 2024-03-19

54: ORGANIC SELENIUM PREPARATION DEVICE FOR INHIBITING CANCER CELL PROLIFERATION AND REPAIRING DAMAGED BODY TISSUE CELLS

00: -

The disclosure relates to the technical field of organic selenium preparation, in particular to an organic selenium preparation device for inhibiting cancer cell proliferation and repairing damaged body tissue cells. In view of the problem that the existing organic selenium preparation requires manual and slow addition of the oil in water primary emulsion, which will waste human resources and increase the workload of staff, the following scheme is proposed, which includes a high pressure homogenizer for high-pressure homogenization, and a homogenizer feeding hopper is arranged on the upper side of the high pressure homogenizer; a fixed box body, the fixed box body fixedly arranged on the top of the high pressure homogenizer, the fixed box body is slidably provided with a movable stirring drum for containing weak alkaline solutions, the movable

stirring drum is provided with a set of stirring assemblies for stirring and mixing weak alkaline solutions; the stirring assemblies drive the intermittent discharge assembly to put the oil in water primary emulsion during mixing, effectively replacing manual work, and facilitating the production and preparation of organic selenium in large quantities.



21: 2024/06192. 22: 2024/08/13. 43: 2025/02/13

51: B60C; F16K

71: TELEFLOW SAS

72: WALI, Nizar, PLUMEJEAU, Baptiste

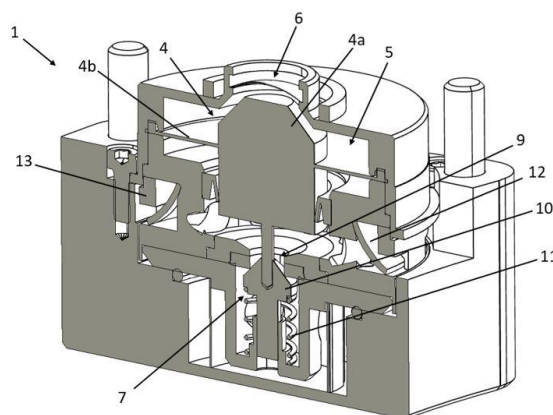
33: FR 31: 2309161 32: 2023-08-31

54: SEALED AND SILENT VALVE FOR THE PRESSURE REGULATION SYSTEM OF A VEHICLE TIRE

00: -

A valve for a pressure regulation system of a vehicle tire is disclosed. The valve comprises a first part with an inlet orifice for a pressurised gaseous fluid, a second part coupled to the first comprising a deflation orifice intended to communicate with the tire, and an escape orifice opening the parts; a flap control system which can be actuated to move from a blocking position to a release position to deflate the tire; an annular and frustoconical protective mudflap, mounted between the first and second parts and around the escape orifice to protect it against external atmospheric agents, the mudflap being deformable to let the fluid escape between

said mudflap and the second part during deflation of the tire. One of the parts comprises an anti-vibration ring coaxially covering the mudflap, and against which the protective mudflap is intended to bear when deformed to block the vibrations of the mudflap.



21: 2024/06196. 22: 2024/08/13. 43: 2025/02/13

51: C07K; A61P

71: CORTERIA PHARMACEUTICALS

72: JANIÁK, Philip, OZOUX, Marie-Laure, ROVERSI, Daniela, BIANCHI, Elisabetta, TRIPEPI, Martina, SANTOPRETE, Alessia

33: EP 31: 22158188.7 32: 2022-02-23

54: CRF2 RECEPTOR AGONISTS AND THEIR USE IN THERAPY

00: -

The present disclosure provides compounds which are peptides comprising the amino acid sequence of the formula (I) disclosed herein or pharmaceutically acceptable salts thereof. The compounds act as agonists of the corticotropin-releasing factor receptor 2 (CRF2) and are useful in therapy, especially in the treatment or prevention of cardiovascular diseases, kidney disease, obesity, diabetes, sarcopenia, particularly obesity-linked sarcopenia, heart failure, cachexia, and pulmonary hypertension.

21: 2024/06219. 22: 2024/08/14. 43: 2025/02/19

51: H04W

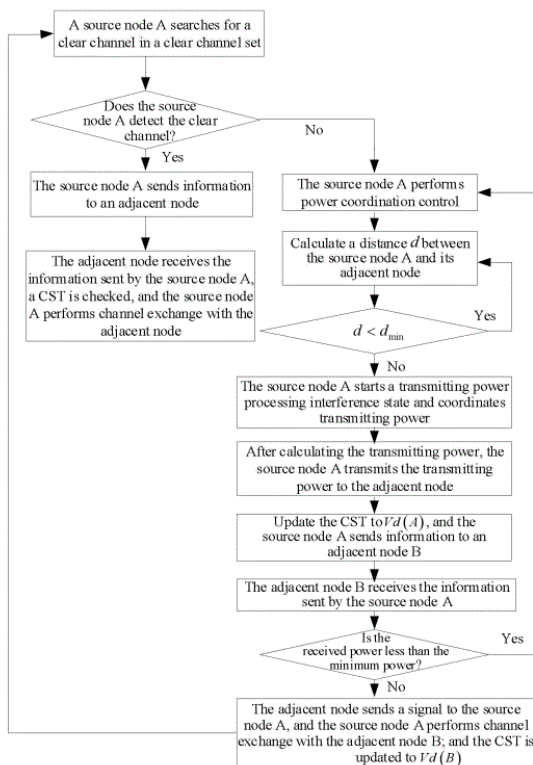
71: Chizhou University

72: LIU, Jingjing, LIU, Chuanyang

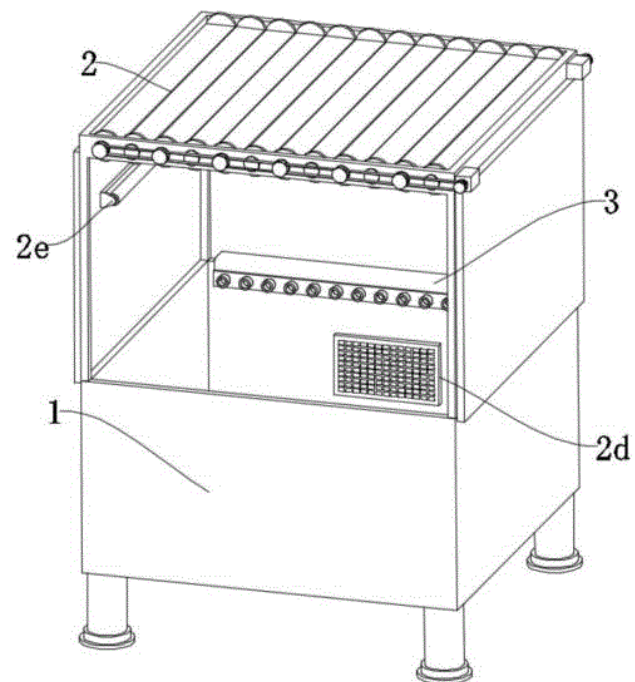
54: DISTRIBUTED CHANNEL ALLOCATION CONTROL METHOD FOR MOBILE AD HOC NETWORK

00: -

Provided is a distributed channel allocation control method for a mobile ad hoc network, belonging to the technical field of mobile ad hoc network communications. When searching for a clear channel, a plurality of channel detection processes are performed in an energy detection time slot so that the time for detecting a plurality of candidate channels is reduced, and the states of the channels can be determined as soon as possible to find an appropriate channel. When the clear channel is not detected, channel allocation control with power control is adopted, and the channel is adaptively adjusted and allocated through a channel dynamic negotiation so that a plurality of communications of different channels are realized in the same area.



adjusting mechanism is arranged right above the pond body, the water circulation mechanism is arranged at the bottom of the pond body, a culture cavity is arranged in the pond body, an aeration tray and an automatic temperature control heating rod are installed on the inner bottom wall of the culture cavity, the aeration tray is communicated with an air pump through an air pipe, and a liquid level sensor is installed on the inner wall of the culture cavity; the liquid level sensor is electrically connected with a microcontroller, which is electrically connected with a water replenishing pump for replenishing water to the pond body, and the top of the culture cavity is communicated with the top of the pond body, which comprises a positioning frame and a culture basket, wherein the positioning frame is arranged at the four corners of the inner wall of the culture cavity, and the culture basket is detachably placed on the positioning frame; the top of the culture basket is provided with culture holes arranged in a matrix, and the bottom of the culture holes is communicated with the bottom of the culture basket. The invention has strong ability to adjust the light intensity, and improves the culture efficiency of sea grapes.



21: 2024/06220. 22: 2024/08/14. 43: 2025/02/24
 51: A01G
 71: Yangjiang Polytechnic
 72: TANG Haiyao, CHEN Yaping, SI Yuanyuan
 54: SEA GRAPE CULTURE DEVICE
 00: -

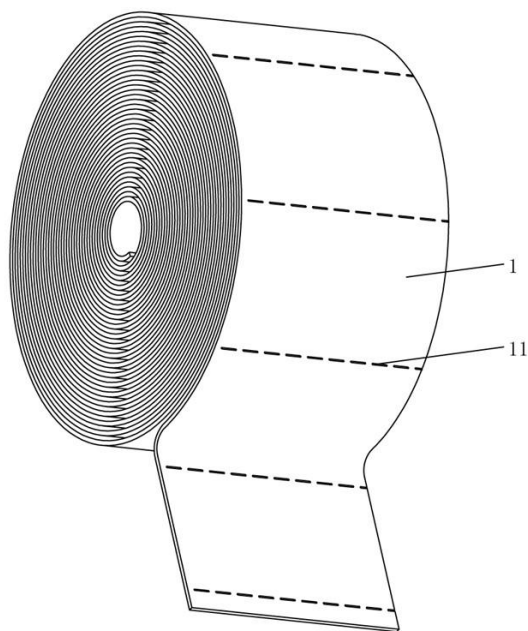
The invention belongs to the technical field of sea grape cultivation, in particular to a sea grape culture device, which comprises a pond body, an illumination adjusting mechanism and a water circulation mechanism, wherein the illumination

21: 2024/06221. 22: 2024/08/14. 43: 2025/02/19
 51: A61F
 71: SHUNDE WOMEN AND CHILDREN'S HOSPITAL OF GUANGDONG MEDICAL

UNIVERSITY (MATERNITY & CHILD HEALTHCARE HOSPITAL OF SHUNDE FOSHAN)
72: SHENGJIE, Chen

54: MEDICAL HEATING BLANKET

00: -
The present invention relates to the technical field of medical materials, and more particularly, to a medical heating blanket; a medical heating blanket of the present invention comprises a heat preservation blanket body and an air inlet pipe, wherein the heat preservation blanket body is configured to be a belt-shaped structure so that the heat preservation blanket body is capable of being wound into a roll; the air inlet pipe is coiled up in the heat preservation blanket body along the length direction of the heat preservation blanket bod; a plurality of cutting lines are arranged on the heat preservation blanket bod, any of the cutting lines is arranged along the width direction of the heat preservation blanket body, and the plurality of cutting lines are sequentially arranged at intervals in the length direction of the heat preservation blanket body.

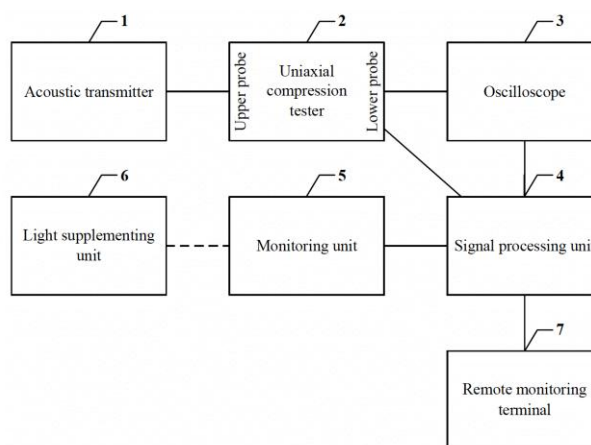


21: 2024/06222. 22: 2024/08/14. 43: 2025/02/24
51: G01N
71: Henan University of Urban Construction, Key Laboratory of Impact and Safety Engineering (Ningbo University)

72: ZHENG, Chao, GUO, Lulu, JIA, Senchun, ZHENG, Yuxuan, ZHANG, Shuo, LI, Shuai, YUAN, Yanzhao

54: MULTIFUNCTIONAL ROCK TEST SYSTEM

00: -
Disclosed is a multifunctional rock test system, which relates to the technical field of rock performance test. The system includes an acoustic transmitter, a uniaxial compression tester, an oscilloscope, a signal processing unit, a monitoring unit and a remote monitoring terminal, where in probes used for clamping samples by the uniaxial compression tester, an upper probe is provided with a first signal converter, and a lower probe is provided with a second signal converter. The acoustic transmitter is connected to the first signal converter in the upper probe, and the oscilloscope is connected to the second signal converter in the lower probe. The oscilloscope, the monitoring unit and the uniaxial compression tester are connected to the signal processing unit, and the signal processing unit is connected to the remote monitoring terminal in bidirectional signals by means of wireless transmission.



21: 2024/06232. 22: 2024/08/14. 43: 2025/02/19
51: A61K
71: ARJUNA NATURAL PRIVATE LIMITED
72: ANTONY, Benny
33: IN 31: 202241008177 32: 2022-02-16
54: PLANT BASED FORMULATION FOR FAST PAIN RELIEF AND PREPARATION METHOD
00: -
Present invention pertains to a plant-based formulation for fast pain relief and method of preparation of said pain relief formulation. Plant-based formulation is made from solid Turmeric

extract and solid Boswellia extract loaded into an oil, with a Hydrophilic-lipophilic balance value ranging from 10 to 19. Administering said analgesic and anti-inflammatory formulation hastens the process of relief to a subject experiencing acute musculoskeletal pain.

21: 2024/06255. 22: 2024/08/15. 43: 2025/02/19
51: E21F

71: Liupanshui Normal University, Xinjiang Institute of Engineering

72: LI, Tao, MA, Liqiang, FAN, Limin, ZHENG, Kaidan, LI, Bo, GAO, Ying, YANG, Junwei, ZHANG, Peng, HUANG, Mingda, WANG, Hai

33: CN 31: 202410841242.7 32: 2024-06-27

54: FAST WATER-INTERCEPTION METHOD FOR WATER-BURSTING POINT IN COAL MINE TUNNEL

00: -

Disclosed is a fast water-interception method for a water-bursting point in a coal mine tunnel, including: determining the location of a water-bursting point; determining a water-interception point in a coal mine tunnel; implementing water-interception exploration holes from the ground surface to the water-interception point; determining a tunnel height exposed by the water-interception exploration holes, and acquiring a water velocity; determining the distribution length L of a water-interception borehole group; implementing the water-interception borehole group; performing intra-borehole hydraulic fracturing at a distance x above the tunnel roof; grouting cracks generated by the hydraulic fracturing; implementing a grouting borehole group on the ground surface; performing combined intra-borehole blasting at a distance x above the tunnel roof; and implementing the grouting borehole group on the ground surface toward the coal mine tunnel area, drilling to the tunnel floor, and performing grouting. The present application can improve the water-interception efficiency and reduce costs.

21: 2024/06256. 22: 2024/08/15. 43: 2025/02/24
51: F16L

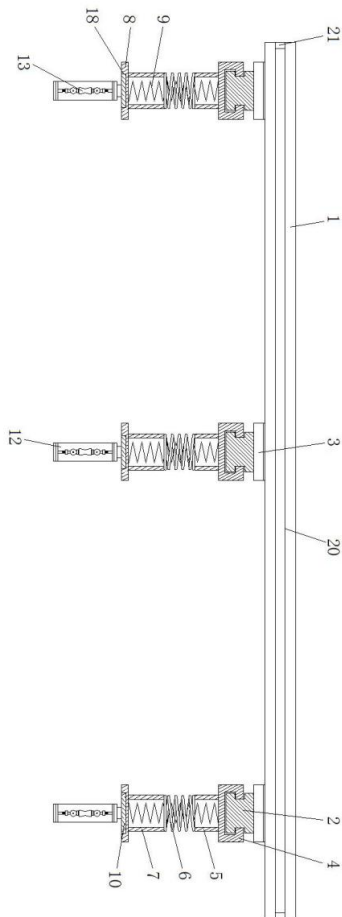
71: Jiangjin Central Hospital of Chongqing

72: CHENG Cheng, CHENG Hong, WANG Jiangyuan, LIU Xinyu, LI Xiuwen

54: ICU INSTRUMENT PIPELINE POSITIONING DEVICE

00: -

The present invention provides an ICU instrument pipeline positioning device, relating to the technical field of instrument pipeline positioning. The ICU instrument pipeline positioning device includes upper slide rails, the upper slide rails are arranged in multiple groups, a lower side of the upper slide rail is provided with a lower slide rail, and the lower slide rail is arranged in multiple groups; and the lower slide rail is connected to the upper slide rail by sliders; the lower slide rail is provided with sliding blocks, and the sliding blocks are provided with a plurality of groups; the lower end of the sliding blocks is provided with a first connecting cylinder; the lower end of the first connecting cylinder is provided with a second connecting cylinder through a first spring; the lower end of the second connecting cylinder is provided with a connecting plate; a movable guiding component is mounted underneath a part of the connecting plate, and a fixed guiding component is mounted underneath another part of the connecting plate, and the connecting plate is connected with the sliding block through a second spring. This invention, by incorporating the first connecting cylinders, first springs, second connecting cylinders, and second springs, allows the device to adopt a flexible fixing method for positioning. It can self adaptation adjust according to the various orientations and forces exerted on the instrument pipelines, thus meeting the needs of healthcare personnel.



the preparation process and is suitable for large-scale industrial production. The filling silicone gel prepared using this method exhibits excellent corrosion resistance, resistance to blackening, thermal conductivity, tensile strength, and flame retardancy, meeting the requirements for communication equipment filling gel.

21: 2024/06258. 22: 2024/08/15. 43: 2025/02/19
51: A01K

71: Zhejiang Academy of Agricultural Sciences
72: ZHOU, Weidong, ZHOU, Xin, LIU, Huadong, CHENG, Jufen, XIAO, Hua, REN, Yongye, JI, Honghu, BAO, Quan, LIU, Kaige, CAI, Jing, LI, Shourun

54: SYSTEM FOR ACCURATELY FEEDING PREGNANT PIGS BASED ON MACHINE LEARNING

00: -

The present invention discloses a system for accurately feeding pregnant pigs based on machine learning, and relates to the field of livestock and poultry breeding equipment. In this method, a basic feeding model of pregnant pigs is integrated with a feeding standard and a weight of environmental impact parameters in each quarter to obtain an accurate feeding model of pregnant pigs. Feeding curves of pregnant pigs in different environments, different body conditions, and different parities can be obtained using the accurate feeding model of pregnant pigs. The present invention enables accurate feeding of pregnant pigs in different environments, different body conditions, and different parities.

21: 2024/06257. 22: 2024/08/15. 43: 2025/02/19
51: C08L

71: Bengbu University

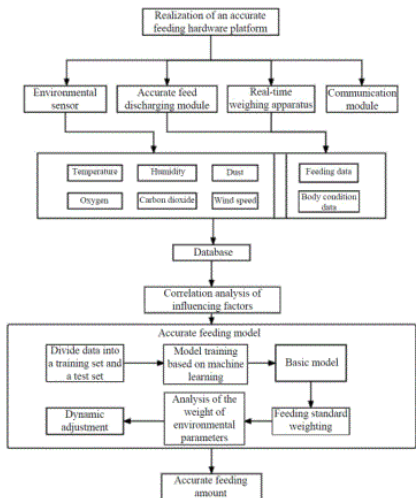
72: Xiong Mingwen, Ding Bo, Zhang Yao, Sun Bingfeng, Wang Na, Zhang Bo, Wang Hanqiong, Wang Ying, Gao Hongrui, Yan Qian, Chen Yaqi

33: CN 31: 2024108705339 32: 2024-07-01

54: A SILICONE GEL FILLING MATERIAL, ITS PREPARATION METHOD, AND APPLICATIONS

00: -

The invention relates to the field of communication equipment filling technology, specifically involving a filling silicone gel and its preparation method and application. The preparation method for the filling silicone gel includes the following steps: Sequentially adding ethyl silicate, propyltriethoxysilane, and ethyl-bridged bis(ethoxy)silane to water, stirring and reacting, then cooling to obtain low modulus organosilicon-modified silica sol. Mixing the low modulus organosilicon-modified silica sol with silica dioxide and calcium carbonate, adding polyethylene oxide wax and defoamer, stirring thoroughly to obtain the filling silicone gel. This method simplifies



21: 2024/06259. 22: 2024/08/15. 43: 2025/02/24
51: D02G

71: Anhui Polytechnic University

72: WANG Yong

54: FANCY COVERED YARN WITH VARIABLE WRAPPING DENSITY CHARACTERISTICS

00: -

The invention discloses a fancy covered yarn with variable wrapping density characteristics, which includes a core layer and an outer covering layer, the core layer is a stretch yarn in a tensioned state, the outer covering layer is a single layer or a plurality of layers, the outer covering layer is a chemical fiber filament or yarn, and the outer covering layer is spirally wrapped on the surface of the core layer with variable wrapping density, so that the problems of single covering density and consistent color brightness and darkness of the surface of the traditional covered yarn are overcome, and the yarn presents an alternating variable density characteristic in the axial direction as a whole, and its colors are staggered in brightness and darkness, presenting a fancy yarn style as a whole; it overcomes the problems of poor dyeing and color fastness durability in the later stage of the traditional covered yarn and single overall color in the axial direction of the yarn.



21: 2024/06260. 22: 2024/08/15. 43: 2025/02/19
51: H04L

71: Southwest university

72: Dong Tao, Chou Junyi, Hu Wenjie

33: CN 31: 2024108321451 32: 2024-06-25

54: KEY NEGOTIATION METHOD BASED ON DTPM STRUCTURE AND FAST LEARNING RULES

00: -

The invention provides a key negotiation method based on DTPM structure and fast learning rules, which comprises the following steps: a DTMP algorithm interferes with an attacker's eavesdropping on interactive information by sending error bits in a certain probability on the common signal channel, so as to achieve the purpose of reducing the success rate of passive attacks. At the same time, the synchronization degree of the two communicating parties is judged by estimating the probability that the neural network outputs of the both communicating parties are unequal, and the modification range of the weights is determined according to the synchronization degree of the both communicating parties, thus speeding up the synchronization process. The joint algorithm of the present invention needs less synchronization time than the original DTMP algorithm, and both communicating parties do not send error information at the same time, and its security is slightly higher than that of the original DTMP algorithm, so it has obvious advantages in synchronization time and security.

21: 2024/06261. 22: 2024/08/15. 43: 2025/02/19
51: G06F

71: Southwest university

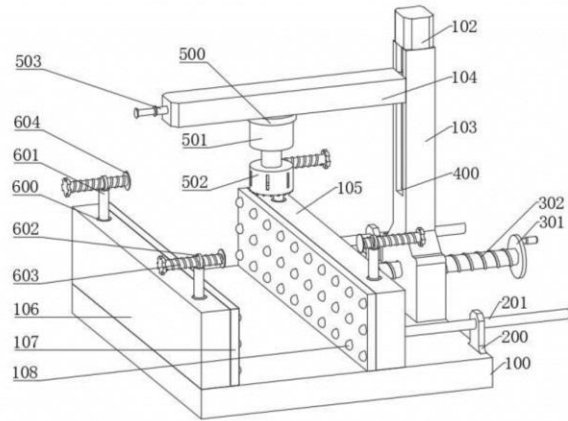
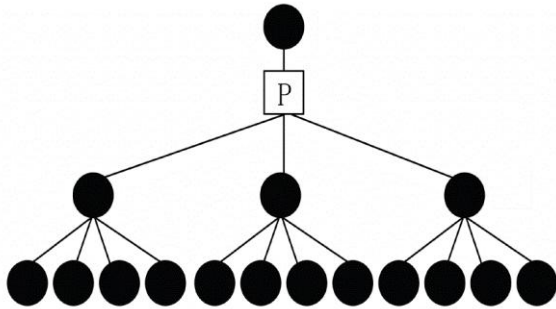
72: Dong Tao, Chou Junyi, Hu Wenjie

33: CN 31: 2024108271166 32: 2024-06-25

54: LEARNING RULE METHOD BASED ON TPM STRUCTURE

00: -

The present invention provides a key negotiation method based on neural network, which comprises the following steps: firstly, two key negotiating parties construct the same tree-shaped neural network structure; then, both key negotiating parties perform mutual learning by exchanging their respective output information on a common signal channel, and finally achieve the synchronization of weights, thereby realizing the sharing of keys.



21: 2024/06262. 22: 2024/08/15. 43: 2025/02/19

51: G01N

71: CHINA RAILWAY 20TH BUREAU GROUP CORPORATION LIMITED, Xi'an Kedagaoxin University, Xi'an University Of Science And Technology

72: Jie Bai, Shihang Zheng, Chao Yuan, Shiguan Chen, Zengle Li

54: A FREEZE-THAW FISSURED ROCK MASS SAMPLING DEVICE AND METHOD

00: -

The application discloses a freeze-thaw fissured rock mass sampling device and method comprises an operating platform. A support column is fixed on the top of one side of the operating platform. A clamping plate is slidingly connected to the top of the operating platform and is located on one side of the support column, and a fixing plate is fixed on the top of the other side of the operating platform. A first bearing is embedded on the surface of the clamping plate, and a thread rod is threaded with the surface of the support column. One end of the thread rod is threaded through the support column and fixed inserted in the inner ring of the first bearing. The surface of one side of the support column is provided with a chute. The top of the support column is fixed installed with an electric push rod. The telescopic end of the electric push rod extends to the inner cavity of the chute and is fixed connected with a connecting plate. The present application arranges the clamping plate and the fixing plate, rotates the thread rod, pushes the clamping plate toward the freeze-thaw fissured rock mass, clamps and fixes the freeze-thaw fissured rock mass, and ensures that the freeze-thaw fissured rock mass does not move when sampling it.

21: 2024/06263. 22: 2024/08/15. 43: 2025/02/19

51: G01N

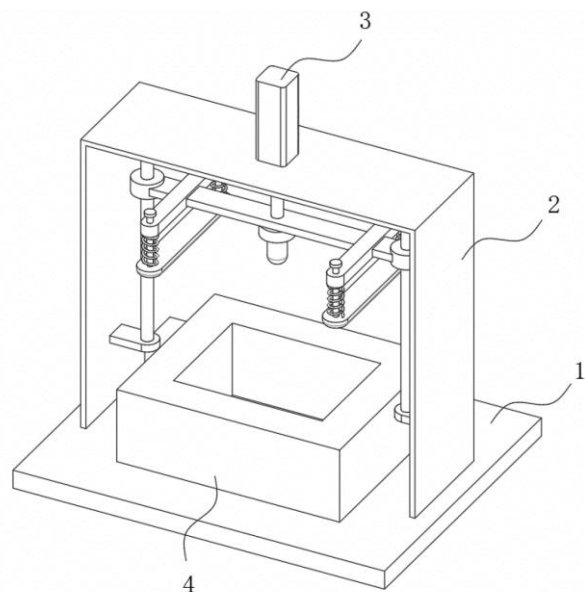
71: Xi'an University of Science and Technology, CHINA RAILWAY 20TH BUREAU GROUP CORPORATION LIMITED

72: Chao Yuan, Ping Cao, Jie Bai, Shiguan Chen

54: DEVICE AND METHOD FOR RAPIDLY TESTING STRENGTH OF FROZEN-THAWED FISSURED ROCK

00: -

The present application discloses a device and method for rapidly testing strength of frozen-thawed fissured rock. The device comprises: a base station; a bracket fixedly connected to a top of the base station; a testing mechanism for strength testing of frozen-thawed fissured rock, wherein the testing mechanism comprises a driving assembly installed on the bracket, and a pressing and fixing assembly is installed at a bottom of the driving assembly; and a placing seat for the placement of the frozen-thawed fissured rock to be tested, wherein the placing seat is arranged on a top of the base station and corresponds to a position of the testing mechanism. In the present application, firstly, the frozen-thawed fissured rock to be tested is placed on the placing seat; then, the driving seat is driven to move down by the hydraulic cylinder; when the driving seat moves down, the frozen-thawed fissured rock to be tested is pressed and fixed at first by a pressing pad, and then the frozen-thawed fissured rock to be tested is tested by a pressure head, so as to ensure the stability of the strength testing of the frozen-thawed fissured rock and further ensure the accuracy of the strength testing of the rock.



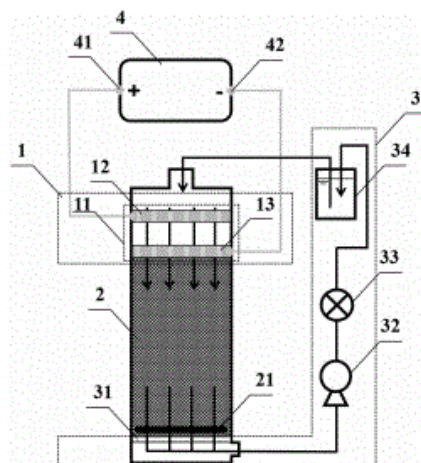
21: 2024/06295. 22: 2024/08/16. 43: 2025/02/19
51: B09C

71: Kunming University of Science and Technology
72: LI, Chen, SUN, Wei, WANG, Zhenzhen, TIAN, Senlin, ZHAO, Qun, SONG, Haoran, CUI, Xiangfen, HU, Xuwei, HUANG, Jianhong, LIU, Shugen, SHI, Jianwu, LI, Yingjie, NING, Ping

54: DEVICE FOR CYCLICALLY RESTORING CONTAMINATED SOIL BY ELECTRIC-CARBON CO-PROMOTED PERSULFATE OXIDATION

00: -

Disclosed are a device for cyclically restoring a contaminated soil by electric-carbon co-promoted persulfate oxidation. The device includes a persulfate electrochemical synthesis and activation unit, an organic-contaminated soil restoration unit, a restoration reagent extraction and recovery unit, and an electric control unit. A method includes the steps of persulfate preparing, activating, reacting, and reagent recycling. The present invention solves the problems of high restoration costs and ecological risk in the process of restoration of organic-contaminated soil by traditional persulfate oxidation, which organically integrates the recycling and efficient activation of persulfate with soil restoration, and uses "electrons", the cleanest agent, and widely available carbon materials to design the synergistic and efficient effect of multiple reactions in the same system to restore organic-contaminated soil, having outstanding advantages of being simple, green, and energy saving.



21: 2024/06296. 22: 2024/08/16. 43: 2025/02/19
51: A23J

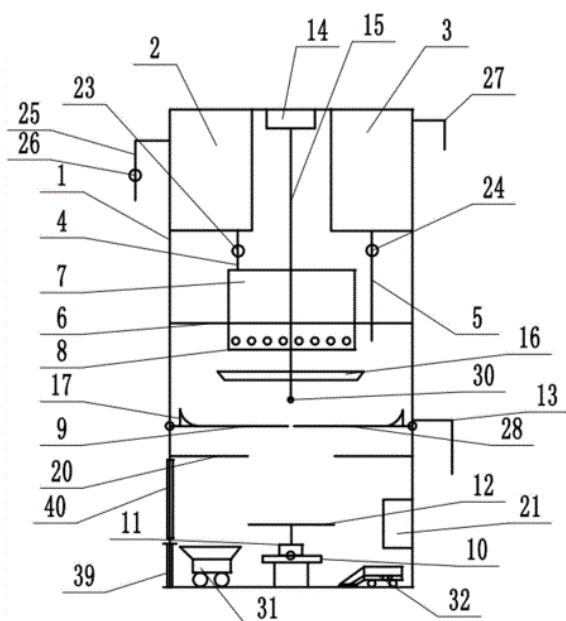
71: HAINAN TROPICAL OCEAN UNIVERSITY, Yuyi Natural Habitat Consulting Service (Guangzhou) Co., Ltd.

72: CHEN, Yan, ZHONG, Minyi, LI, Wenfeng, CHEN, Pan, HUANG, Hai

54: APPARATUS FOR PREPARING AQUATIC PROTEIN ISOLATE POWDER

00: -

The present invention discloses an apparatus for preparing aquatic protein isolate powder, including a box body. A gas bin and a liquid bin are fixedly arranged on a top end inside the box body. A top plate, the box body, a first bottom plate and a second bottom plate enclose a mixing space. A rotary platform, a transfer carrier, a sweeper and a freeze dryer are provided on a bottom end inside the box body. The rotary platform carries a first motor, and a motor shaft of a first motor is fixedly sleeved with a centrifugal disc. The first motor can drive the centrifugal disc to rotate, and the rotary platform can drive the centrifugal disc to tilt. A closing door and a transparent observation window are provided on a side wall of a bottom end of the box body.



21: 2024/06297. 22: 2024/08/16. 43: 2025/02/19
51: C09K

71: Kunming University of Science and Technology
72: SONG, Haoran, CHEN, Longyu, TIAN, Senlin,
LI, Chen, ZHAO, Qun, LI, Jie, CUI, Xiangfen, HU,
Xuewei, HUANG, Jianhong, LIU, Shugen, SHI,
Jianwu, NING, Ping

**54: PHOTOTHERMAL CONVERSION ASSEMBLY
AND PREPARATION METHOD AND
APPLICATION THEREOF**

00: -

The present invention falls within the field of the preparation of functional materials, and particularly relates to a photothermal conversion assembly and a preparation method and application thereof. The preparation method provided by the present invention includes the following steps: mixing metal salts with MAX phase ceramic powder for calcination to obtain a metal particle-loaded MXene material; mixing the metal particle-loaded MXene material with a graphene slurry to obtain a mixed suspension slurry; and immersing a polymer sponge in the mixed suspension slurry and drying the same to obtain the photothermal conversion assembly. In the preparation method provided by the present invention, the metal particle-loaded MXene material collaboratively utilizes the sunlight absorption capacity of MXene and the plasmon effect of in-situ generated metal particles, and the graphene slurry promotes the mechanical properties of the sponge

matrix while facilitating the uniform distribution of metal particles loaded on MXene.

21: 2024/06298. 22: 2024/08/16. 43: 2025/02/19
51: G01M

71: Gansu Special Equipment Inspection and
Testing Research Institute (Gansu Special
Equipment Inspection and Testing Group)

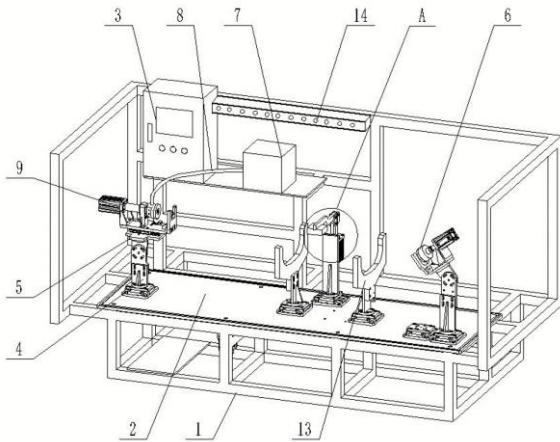
72: Li Guangyin, Li Jie, Zhao Xiaolong

33: CN 31: 2024218894385 32: 2024-08-06

**54: A SPECIAL EQUIPMENT PRESSURE
PIPELINE LEAK TESTING DEVICE**

00: -

The invention discloses a special equipment pressure pipeline leak testing device, which includes a frame, a support component, a lifting clamping component, a first bracket, and an airtightness detection component. The frame is equipped with a testing platform and a control system. The support component is mounted on the top surface of the testing platform. The lifting clamping component is also mounted on the top surface of the testing platform. The lifting end of the lifting clamping component is positioned above the support component, and the pipeline to be tested can be detachably connected between the support component and the lifting clamping component's lifting end. Two first brackets are installed side by side on the top surface of the testing platform. The top of the first bracket is equipped with a second bracket via an angle adjustment part. A telescopic component is installed on the second bracket, and the telescopic end of the telescopic component is equipped with a sealing sleeve. The detection end of the airtightness detection component is fixedly connected to one of the sealing sleeves. This invention enables the detection of airtightness for pressure pipelines of different sizes and shapes, is simple and convenient to operate, and improves both work efficiency and testing accuracy.



21: 2024/06299. 22: 2024/08/16. 43: 2025/02/19
51: G08B

71: Jason Blacklock

72: Jason Blacklock

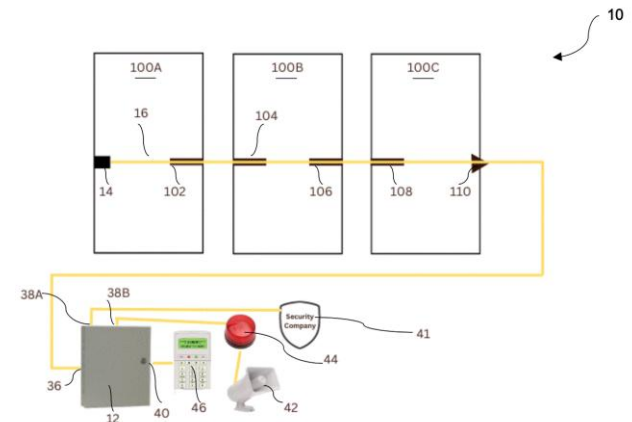
33: ZA 31: 2023/08752 32: 2023-09-14

54: SECURITY DEVICE

00: -

THIS invention relates to a security device. More specifically, the invention relates to a security device for monitoring a solar panel installation and alerting a user and/or remote response team of impending theft and/or damage (i.e. fire). The security device includes an alarm module, a connector and primary and secondary electrical wires. The connector is mountable to at least one of one or more objects to be monitored, and comprises at least one switch having a contact plate and primary and secondary linearly movable connector rods. The connector rods are movable between a closed position, wherein first contact ends of the connector rods are in electrical contact with the contact plate, and an open position, wherein one or both of the first contact ends of the connector rods are spaced from and consequently not in electrical contact with the contact plate, wherein the connector rods are biased towards the closed position. The primary and secondary electrical wires are connectable at opposite ends to the connector rods and alarm module respectively, such that the at least the alarm module, the switch and the electrical wires jointly form an electrical security circuit, with the primary and secondary electrical wires in use being securable to or threadable through the monitored objects there by to tether them together. In the event of electrical continuity being lost in the electrical security circuit, either as a result of one or both of the electrical

wires being severed or pulled towards the open position, the alarm module is triggerable to output an alarm to a user and/or a remote response team.



21: 2024/06302. 22: 2024/08/16. 43: 2025/03/10
51: A01C

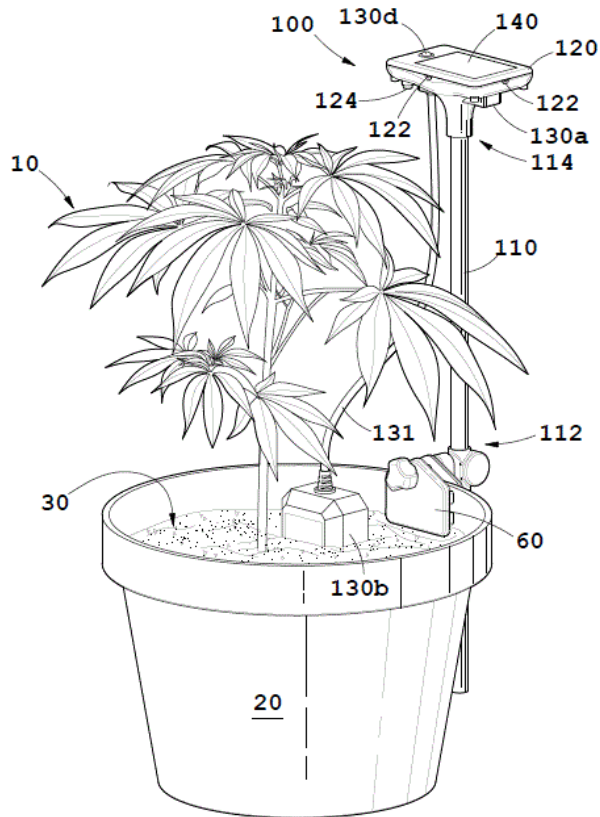
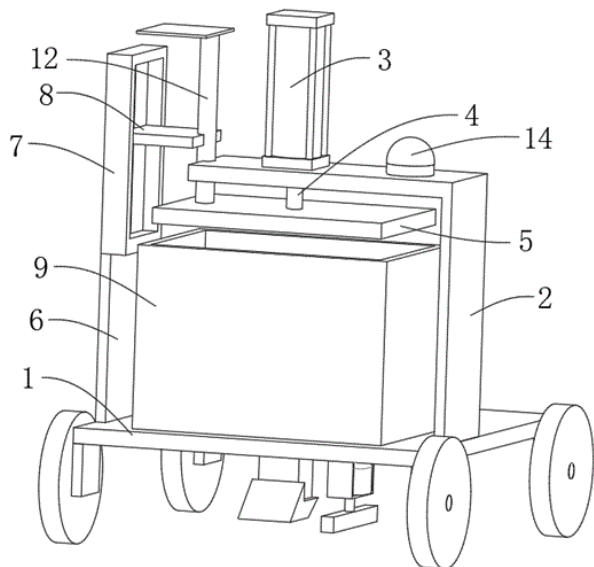
71: Lingnan Normal University

72: Ming Xianglan, Liu Yang, Ma Xueqi, Chen Zihao, Jiang Shuzhen

54: AN INTELLIGENT CONTROL SEEDER

00: -

The present disclosure relates to the technical field of seeding machines, and more particularly, to an intelligent control seeder, comprising a mounting plate, wherein the top of the mounting plate is fixedly connected with a support frame, the top of the support frame is fixedly connected with a first cylinder, the output end of the first cylinder is provided with a push rod, the push rod penetrates through the interior of the support frame, and the bottom of the push rod is fixedly connected with a push plate. An advantage of the present disclosure is that: The limiting plate is fixed to one side of the positioning plate, so that the alarm allowance of the seeds in the seeding box is changed by changing the height of the limiting plate, and the practicability is good.

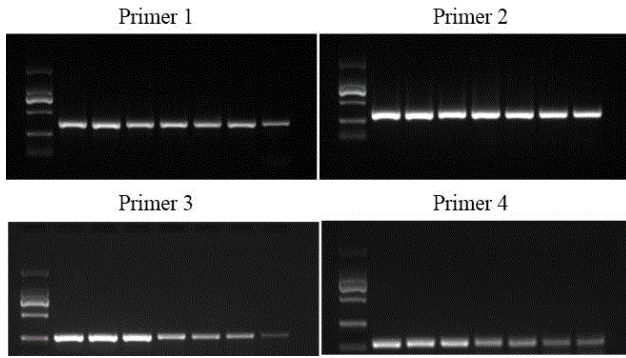


21: 2024/06303. 22: 2024/08/16. 43: 2025/02/20
 51: A01G
 71: DIVISION X (PTY) LTD
 72: HURDEEN, Rikash Ramrajh, DELATE, Bryan, UNSER, Evan
 33: ZA 31: 2023/06021 32: 2023-06-07
54: PLANT MONITORING DEVICE, SYSTEM, AND METHOD OF MONITORING A PLANT

00: -
 The invention pertains to a plant monitoring apparatus, system, and method of monitoring a plant. The plant monitoring apparatus includes an elongate mount for supporting the plant monitoring apparatus relative to a plant that is to be monitored. A housing is attached to the elongate member and encloses a central processing unit on which program logic is executable to control electronic components of the plant monitoring apparatus. Environmental sensors for monitoring and recording an environmental parameter forms part of the plant monitoring apparatus. The housing also encloses a memory module for storing the program logic and recorded environmental parameters. A communication module for sending recorded environmental parameters to a smart device of a user of the plant monitoring apparatus and/or a client-server that hosts a database management system for storing and managing data that pertain to plants and the recorded environmental parameters also forms part of the plant monitoring apparatus.

21: 2024/06305. 22: 2024/08/16. 43: 2025/03/03
 51: C12Q
 71: Jining NO.1 People's Hospital (Jining Academy of Medical Sciences)
 72: Dongmei Shi, Yahui Feng
 33: CN 31: 202410178676.3 32: 2024-02-10
54: A METHOD FOR RAPID IDENTIFICATION OF MYCOBACTERIUM MARINUM SAMPLES BASED ON MULTI-GENE AMPLIFICATION

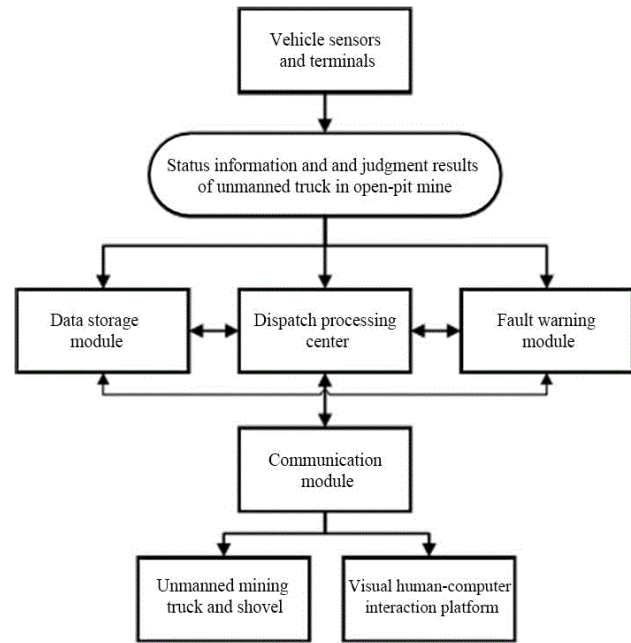
00: -
 The invention belongs to the field of biomedicine technology, and in particular discloses a method for rapid identification of mycobacterium marinum samples based on multi-gene amplification. The invention establishes a complete set of DNA extraction from purified colonies to tissues containing mycobacterium marinum and an amplification scheme combining specific primers of mycobacterium marinum. It can be performed by either ordinary PCR or fluorescent PCR. Compared with the traditional culture method, it can significantly shorten the detection time, compared with the omics method, it can significantly reduce the cost, its operation is simple and easy, and it is specific and its positive rate is high, and it has the advantages of short time and low cost.



21: 2024/06306. 22: 2024/08/16. 43: 2025/02/20
 51: G06Q
 71: Xuzhou XCMG Heavy Vehicle Co., Ltd, China University of Mining and Technology
 72: Jiusheng Bao, Deping Hu, Shiwei Xu, Yan Yin, Chenzhong Zhu, Maosen Wang, Shaoyun Cui, Mingyu Gao, Kai Wang
 33: CN 31: 202410732227.9 32: 2024-06-06

54: A DYNAMIC SCHEDULING SYSTEM AND METHOD FOR UNMANNED TRUCK IN OPEN-PIT MINE BASED ON REINFORCEMENT LEARNING
 00: -

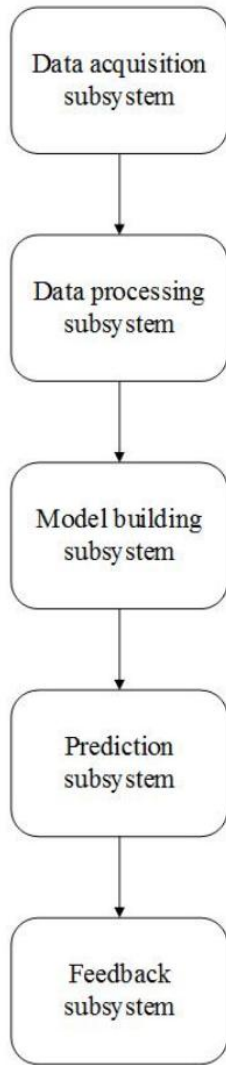
The invention discloses a dynamic scheduling system and method for unmanned truck in open-pit mine based on reinforcement learning. The real-time status of the unmanned mining truck is judged by the vehicle sensor and the vehicle terminal. The status information is fed back to the scheduling processing center, and the scheduling processing center optimizes all mining trucks that meet the requirements. The scheduling model is constructed based on reinforcement learning and trained with historical data. The greedy algorithm is used to improve the quality of the solution, and the adaptive reward adjustment mechanism is used to train the scheduling model repeatedly to get a better solution. The fault warning module can give early warning to the failure of the unmanned mining truck. The system uses 5G network as the data transmission means and computer technology as the tool to realize the real-time optimization scheduling of mining trucks. The invention can realize unmanned dynamic scheduling of unmanned mining trucks in open-pit mines, accurately predict vehicle faults, reduce labor intensity of personnel, improve transportation efficiency, ensure production and transportation safety, and accelerate the intelligent process of mines.



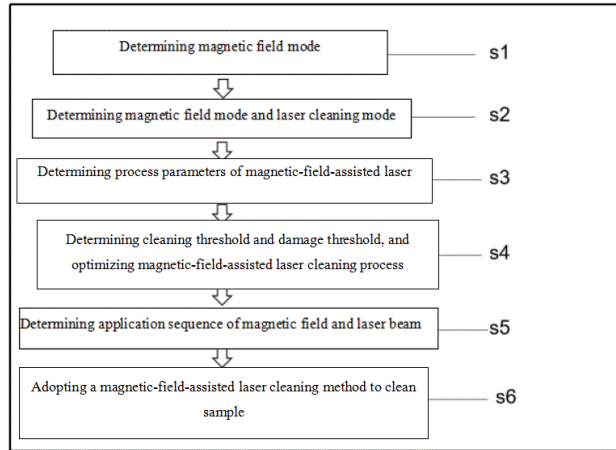
21: 2024/06343. 22: 2024/08/19. 43: 2025/03/03
 51: G08B
 71: Wuxi Maternity and Child Health Care Hospital, Affiliated Women's Hospital of Jiangnan University
 72: PEI Jingjing, QI Ying

54: HEALTH MANAGEMENT SYSTEM FOR PREMATURE BABIES AFTER DISCHARGE
 00: -

The present invention discloses a health management system for premature babies after discharge, and belongs to the technical field of health management, including a data acquisition subsystem, a data processing subsystem, a model building subsystem, a prediction subsystem and a feedback subsystem; and the present invention may enable parents and healthcare providers to effectively track and manage the health of premature babies at home.



magnetic-field-assisted laser cleaning method, with high efficiency, high quality, precision, and economy, is formed by the organic integration of multiple factors.



21: 2024/06345. 22: 2024/08/19. 43: 2025/03/10
51: A01G

71: Institute of Mountain Hazards and Environment, Chinese Academy of Science
72: WANG Haiming, HUANG Xue

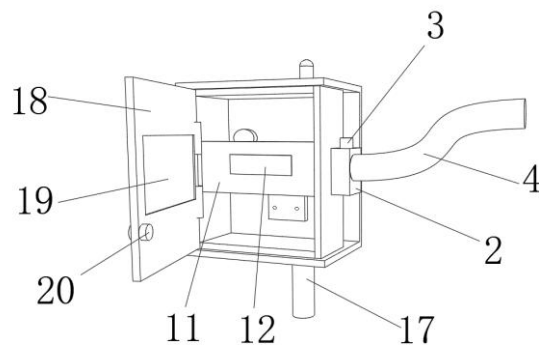
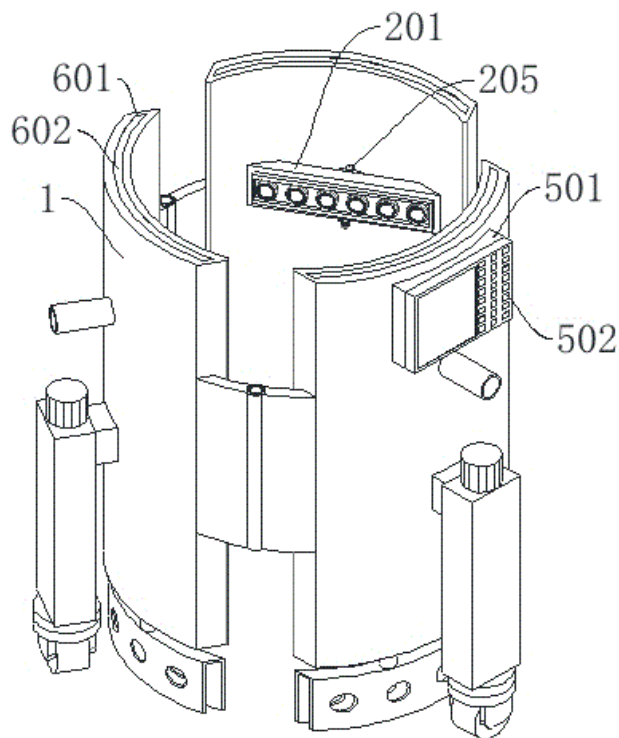
54: IRRIGATION DEVICE FOR CITRUS PLANTING
00: -

The invention relates to the technical field of citrus planting equipment, in particular to an irrigation device for citrus planting, which comprises an irrigation device main body, an installation column, an installation frame, an irrigation nozzle, a water inlet pipe, a water inlet valve, a detection component, a connecting component, a control component, a temperature insulation component, an adjusting component, a moving component and a fixed component, wherein the inner wall of the irrigation device main body is provided with the installation column, one side of the installation column is provided with the installation frame, and the irrigation nozzle is arranged in the installation frame. A plurality of groups of irrigation nozzles are arranged, the other side of the installation column is provided with a water inlet pipe, the water inlet pipe penetrates through the irrigation device main body, and the outer side of the water inlet pipe is provided with a water inlet valve.

21: 2024/06344. 22: 2024/08/19. 43: 2025/03/03
51: B08B
71: Shanghai University of Engineering Science
72: WANG Ying, LUO Jian, CHENG Riping, TANG Zihan

33: CN 31: 2024101525867 32: 2024-02-03
54: MAGNETIC-FIELD- ASSISTED LASER CLEANING METHOD

00: -
This invention provides a magnetic-field-assisted laser cleaning method. According to various cleaning requirements of various cleaning objects, the optimal process parameters, most effective magnetic field mode, most reasonable magnetic field mode, best coupling process, and most appropriate laser cleaning mode are determined to meet the cleaning requirements of various objects to be cleaned. The



21: 2024/06346. 22: 2024/08/19. 43: 2025/02/20

51: G01N

71: Jiangsu University of Technology

72: Chen Dong

54: GREENHOUSE GAS EMISSION CONCENTRATION ONLINE MONITORING DEVICE

00: -

The present invention relates to the technical field of greenhouse gas emission monitoring, and a greenhouse gas emission concentration online monitoring device is disclosed, including a box body. A gas pipeline is fixedly connected to a middle position of a right side inside the box body, a valve is arranged on each of left and right sides inside a gas tank, a slide block is fixedly connected to a middle position of a rear side of the box body, and a slide groove is fixedly connected to a middle position of a rear side inside a protective frame. According to the present invention, the valve is arranged on each of the left and right sides of a tank body, the slide block is mounted on a rear side of the box body, and the slide groove is mounted on an inner side of the protective frame, improving convenience and efficiency.

21: 2024/06349. 22: 2024/08/19. 43: 2025/03/03

51: C11D

71: Guangzhou Joyson Cleaning Products Co., Ltd.

72: Fenglei LI, Jianfeng SUN, Min SUN, Na LAN, Yumei HUANG

54: TWO-IN-ONE SOLID DETERGENT COMPOSITION AND ITS PREPARATION METHOD

00: -

The present disclosure relates to the technical field of detergent materials, and more specifically to a two-in-one solid detergent composition and its preparation method. The solid detergent composition includes the following raw materials by weight: 10-30% of (a) a molding agent, 10-50% of (b) a surfactant, 5-20% of (c) a softening agent, 10-30% of (d) a molding auxiliary; and optionally 0.1%-1% of (e) a softening and conditioning agent, 0.1%-1% of (f) a molding stabilizer, 1-10% of (g) a water softener, 1-10% of (h) a stain solubilizer, or 0.1-5% of (i) a fragrance enhancer; the remainder is deionized water. The solid detergent composition of the present disclosure includes an anionic surfactant with an ethoxyl group, which avoids precipitation with a cationic softening agent due to the attraction of positive and negative charges, such that their performance will not be affected mutually, thereby realizing the two-in-one efficacy of washing and softening.

21: 2024/06350. 22: 2024/08/19. 43: 2025/03/03

51: C11D

71: Guangzhou Joyson Cleaning Products Co., Ltd.

72: Jianfeng SUN, Fenglei LI, Min SUN, Xiangjian ZENG, Na LAN, Yumei HUANG

54: DISHWASHING TABLET, AND PREPARATION METHOD AND USE METHOD THEREOF

00: -

The present invention discloses a dishwashing tablet, and a preparation method and a use method thereof. The dishwashing tablet is mainly prepared from the following components in parts by mass: 15-35 parts of low molecular weight water-soluble polymer, 10-25 parts of anionic surfactant, 5-20 parts of nonionic surfactant, 0.3-5 parts of forming aid, 1-10 parts of polyol washing aid, 1-10 parts of water softener, 1-10 parts of anti-stain dispersant, 0.1-5 parts of enzyme preparation, 0.3-3 parts of polymer cleaning aid, 0-1 part of essence and 0-0.1 part of preservative. According to the present application, the low molecular weight water-soluble polymer is selected, and a small number of anionic surfactants are compounded to achieve a good emulsification effect, thereby facilitating better tableting, being suitable for large-scale production and reducing a large amount of foam generated during washing.

21: 2024/06354. 22: 2024/08/19. 43: 2025/02/25
 51: A01N; C05F; C05G
 71: PRO FARM GROUP, INC.
 72: VIRTA, Kalle

33: US 31: 63/316,383 32: 2022-03-03
54: METHODS OF REDUCING HERBICIDAL STRESS USING HUMIC AND FULVIC ACID COMPOSITION TREATMENTS

00: -
 Disclosed herein are methods for reducing herbicide stress to a plant, the method comprising the steps of applying an herbicide to the plant; and applying to the plant and/or seeds and/or substrate used for growing said plant an effective amount of a composition comprising a composition containing fulvic acid and poly-metallic humates (CPFAPH).

4	4	4	4	1	1	1	1	5	5	5	5	6	6	6	6	Rep. 6
3	3	3	3	7	7	7	7	8	8	8	8	2	2	2	2	Rep. 5
1	1	1	1	2	2	2	2	4	4	4	4	3	3	3	3	Rep. 4
6	6	6	6	8	8	8	8	5	5	5	5	7	7	7	7	Rep. 4
3	3	3	3	4	4	4	4	6	6	6	6	8	8	8	8	Rep. 4
5	5	5	5	7	7	7	7	1	1	1	1	2	2	2	2	Rep. 4
1	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	Rep. 3
8	8	8	8	7	7	7	7	6	6	6	6	5	5	5	5	Rep. 3
4	4	4	4	3	3	3	3	2	2	2	2	1	1	1	1	Rep. 2
5	5	5	5	6	6	6	6	7	7	7	7	8	8	8	8	Rep. 2
8	8	8	8	7	7	7	7	6	6	6	6	5	5	5	5	Rep. 1
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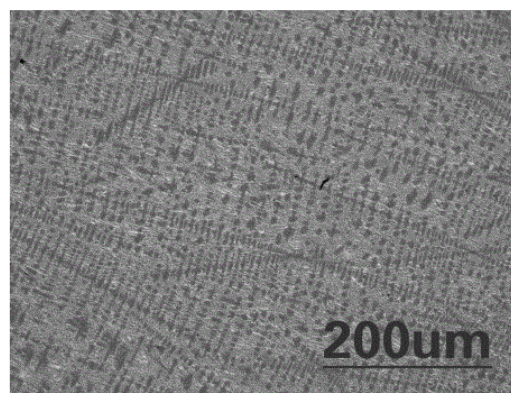
21: 2024/06371. 22: 2024/08/20. 43: 2025/02/25
 51: C21D; C22C
 71: Kuancheng Shuangxing Mining Equipment Manufacturing Co., Ltd.

72: DU, Xiangke, MA, Jun, ZHANG, Fengjun, JI, Hongchao, DU, Xiangsheng

33: CN 31: 202410533924.1 32: 2024-04-29

54: WEAR-RESISTANT, HIGH-TOUGHNESS ULTRA-HIGH-CHROMIUM STEEL BALL MATERIAL AND PREPARATION METHOD THEREOF

00: -
 The present invention provides a wear-resistant, high-toughness ultra-high-chromium steel ball material and a preparation method thereof. The wear-resistant, high-toughness ultra-high-chromium steel ball material provided in the present invention includes the following chemical components in percentage by weight: C: 2.80 percent-3.30 percent, Si: 0.60 percent-0.80 percent, Mn: 2.00 percent-2.50 percent, W: 0.25 percent-0.55 percent, Mo: 0.25 percent-0.45 percent, Cr: 18.00 percent-20.00 percent, P and S: less than 0.02 percent, with the rest being iron and unavoidable impurities. In the present invention, the element component content and processing method of the steel ball material are further adjusted, so that the chromium content of the steel ball material is maintained at 18.00-20.00 percent. Therefore, the steel ball material exhibits not only excellent wear resistance but also high toughness, so that the ultra-high-chromium steel ball material of the present invention has a long service life.



21: 2024/06372. 22: 2024/08/20. 43: 2025/02/25
 51: B01J
 71: Zhejiang University of Science And Technology
 72: GAO, Xuan, ZHANG, Haozhe, JIANG, Lingya, LIU, Longjiang, FANG, Jing
54: METHOD FOR EXTRACTING EXTRACELLULAR POLYMERIC SUBSTANCES FROM CHLORELLA PYRENOIDOSA

00: -

Disclosed is an extracting method for extracellular polymeric substances (EPS) from *Chlorella pyrenoidosa*, which belongs to the technical field of biological extraction. The present invention takes *Chlorella pyrenoidosa* liquid for a centrifugation separation of solid phase and liquid phase, and the liquid phase obtained is soluble extracellular polymeric substances (S-EPS). After washing the solid phase with a phosphate buffer, 20 to 30 times the mass of the solid phase of phosphoric acid buffer and 2.2 to 2.8 times the mass of the solid phase of cation exchange resin are added to form a mixed solution. After heating the mixed solution to 30 to 32 degrees Celsius, magnetic stirring and high-speed centrifugation are performed, and a liquid phase obtained is bound extracellular polymeric substances (B-EPS). By combining centrifugation, heating, cation exchange resin, and magnetic stirring, the present invention performs mild extraction toward *Chlorella pyrenoidosa*.

21: 2024/06373. 22: 2024/08/20. 43: 2025/02/25
51: A61B

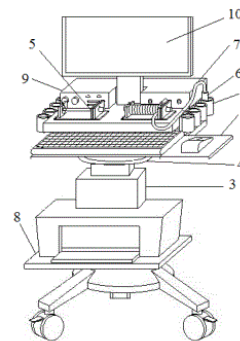
71: Nanjing Pukou People's Hospital, Nanjing, China
72: CAO, Lihua, TAN, Lin, LI, Chao, SHENG, Weiwei, WANG, Xiaolei, BAI, Min

54: CEREBROVASCULAR DISEASE INFORMATION DETECTION DEVICE

00: -

Disclosed in the present invention is a cerebrovascular disease information detection device. The detection device includes a workbench, a lifting mechanism, a rotary mechanism and at least one cable winding device. At least one accommodating cylinder is arranged on the workbench, and the accommodating cylinder is used for accommodating a detection head of a detector. The lifting mechanism is arranged below the workbench and is capable of supporting the workbench to move vertically. The rotary mechanism is arranged between the lifting mechanism and the workbench, and is capable of making the workbench rotate around a vertical axis relative to the lifting mechanism. The cable winding device is arranged on the workbench and is used for winding and unwinding a cable of the detector. The cerebrovascular disease information detection device provided by the present invention facilitates

cable winding and use of the detection head of the device.



21: 2024/06374. 22: 2024/08/20. 43: 2025/03/03
51: B09C

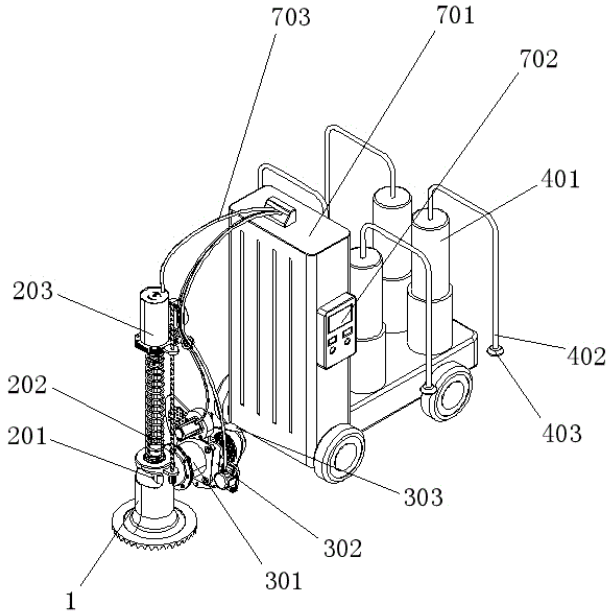
71: Institute of Mountain Hazards and Environment, Chinese Academy of Science

72: ZHENG Jing, TANG Jialiang, CUI Junfang, LU Mei

54: ECOLOGICAL RESTORATION DEVICE FOR SURFACE VEGETATION IN KARST DEPRESSION AND RESTORATION METHOD THEREOF

00: -

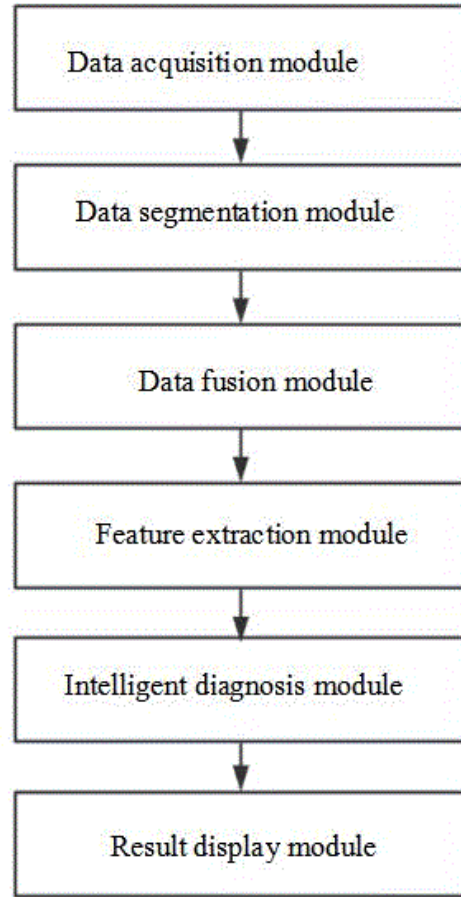
The invention relates to the technical field of ecological restoration, in particular to an ecological restoration device for surface vegetation in karst depressions and a restoration method thereof. The inside of the fixed seat is provided with an acquisition component, one side of the fixed seat is provided with a detection component, the outside of the fixed seat is provided with a walking module, a repair component is arranged above the walking module, the inside of the detection component is provided with a filter component, one side of the fixed seat is provided with a lifting component, and a control component is arranged above the walking component; through the automatic operation from soil collection to ecological restoration layer laying, the invention not only improves the restoration efficiency, but also ensures the accuracy of the restoration effect. At the same time, the device is compact in design and convenient to operate, and is widely suitable for rapid restoration of various soil pollution and ecological degradation areas.



21: 2024/06378. 22: 2024/08/20. 43: 2025/03/03
 51: G06F
 71: Zhejiang Normal University
 72: DONG Zhilin, JIANG Yonghua, JIAO Weidong,
 XU Wanxiu, SUN Jianfeng, LIU Siyu, TANG Chao,
 LIN Daxuan

54: MECHANICAL BEARING FAULT DIAGNOSIS SYSTEM AND METHOD

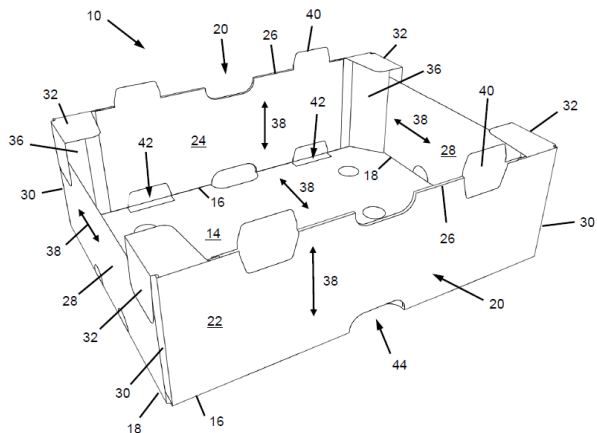
00: -
 The invention discloses a mechanical bearing fault diagnosis system and method, which comprises the following steps: acquiring a virtual simulation vibration signal and a real vibration signal of a bearing; respectively segmenting the virtual simulation vibration signal and the real vibration signal to obtain the corresponding virtual shock signal and the real virtual signal; fusing the virtual shock signal and the real virtual signal to construct a vibration sample set; extracting the key features of the vibration sample set, and marking the faults of the extracted key features to form a training sample set; a fault diagnosis model is constructed, and the fault diagnosis model is trained based on the training sample set, and then the bearing fault diagnosis is carried out based on the trained fault diagnosis model. The invention can improve the accuracy and efficiency of fault diagnosis.



21: 2024/06379. 22: 2024/08/20. 43: 2025/03/17
 51: B65D
 71: APL Cartons (Pty) Ltd
 72: KLEINHANS, Frederick
 33: ZA 31: 2023/08173 32: 2023-08-24

54: CONTAINER AND METHOD OF ERECTING A CONTAINER

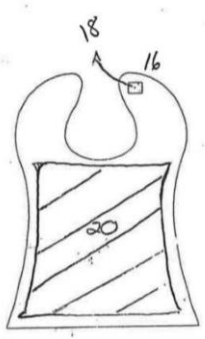
00: -
 A container (10) is erected from a blank (12), has a floor (14) and four walls (20,28) that meet at four corners (30). A pillar is formed in each corner (30) from a pillar flap (34) that is connected to the end of each of the long side walls (20). Each long side wall (20) has corner flaps (32) on either side that extends across the corners (30) and is attached to each of the short side walls (28).



21: 2024/06382. 22: 2024/08/20. 43: 2025/03/12
 51: A41B
 71: KASSEL, Lee-Anne
 72: KASSEL, Lee-Anne
 33: ZA 31: 2023/08198 32: 2023-08-23

54: SUPER ABSORBENT LEAK PROOF BIB

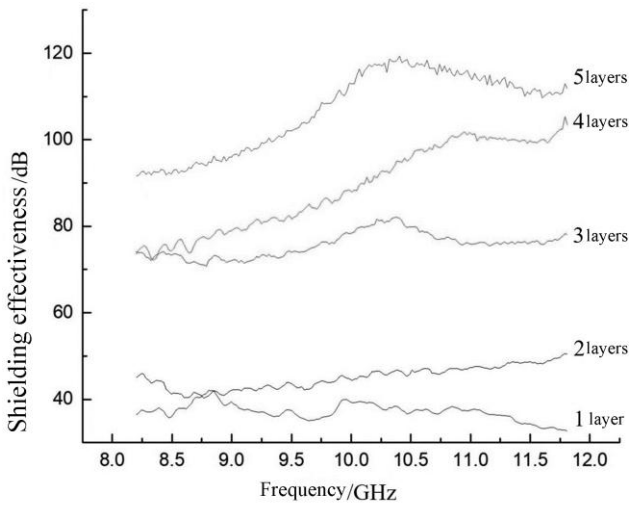
00: -
 A bib which includes an apron with at least a front portion, and a rear portion, wherein an upper edge of the apron is shaped to fit the neck of a person being fed, fixation means for connecting on to the neck of the person, wherein the front portion consists of a multi-layer construction which includes a fabric layer laminated to an inside of an undergarment which fabric layer consists of a substantially water proof membrane which operatively serves to allow moisture to migrate through pores in the membrane whilst forming a barrier to the uncontrolled flow of liquid.



21: 2024/06404. 22: 2024/08/21. 43: 2025/03/07
 51: B32B
 71: Anhui Polytechnic University
 72: WANG He, WANG Hongjie, RUAN Fangtao, YAO Lan, XU Rongrong, ZHANG Menghan, LU Hao, LI Hailu, WANG Chen

54: NONWOVEN FABRIC-BASED ELECTROMAGNETIC SHIELDING MATERIAL AND PREPARATION METHOD THEREOF

00: -
 The invention belongs to the technical field of electromagnetic shielding materials, and discloses a nonwoven fabric-based electromagnetic shielding material and a preparation method thereof. In the invention, resin, auxiliary agent and silver powder are mixed and dispersed to obtain silver paste, the silver paste is printed on nonwoven fabric, and the silver paste is baked and solidified to obtain nonwoven fabric-based electromagnetic shielding material. According to the invention, the nonwoven fabric material is used as the substrate, so that the cost is lower, and the cost of the whole material is reduced; moreover, the nonwoven is directly spun from fibers, so that the electromagnetic shielding material prepared by combining the flexible nonwoven substrate with silver paste has wide application; screen printing technology is used to evenly coat silver powder on nonwovens, giving them electromagnetic shielding performance, and the bonding strength between silver powder and nonwovens can be adjusted by controlling the proportion of formula, which has strong controllability.

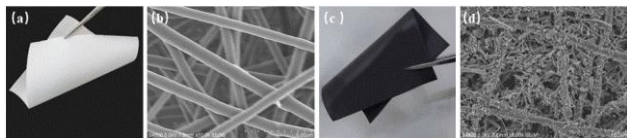


21: 2024/06405. 22: 2024/08/21. 43: 2025/03/07
 51: B32B
 71: Anhui Polytechnic University
 72: WANG Hongjie, WANG He, RUAN Fangtao, PAN Xianmiao, SHI Hu, ZHOU Changyu, AN Jiayi, XU Manyu, ZHANG Shuangyu

54: FLEXIBLE WATERPROOF AND MOISTURE PERMEABLE MEMBRANE AND PREPARATION METHOD THEREOF

00: -

The invention belongs to the technical field of film materials, and relates to a flexible waterproof and moisture permeable membrane and a preparation method thereof. The method includes the following steps: adding TPU particles into a mixed solvent, stirring for 24 h at 55 degrees Celsius to obtain TPU spinning solution, and then preparing the TPU spinning solution into a fiber membrane by an electrostatic spinning method; then, the fiber membrane was immersed in carbon nanofiber dispersion, and the TPU/CNFs nanofiber membrane is obtained after ultrasonic treatment, washing and drying. Then, the TPU/CNFs nanofiber membrane is immersed in PDMS heptane solution containing curing agent, and the flexible waterproof and moisture permeable membrane is obtained after impregnation. The curing reaction of PDMS macromolecules forms a rich hydrophobic adhesive structure, which prevents the loaded particles from falling off under deformation or wear conditions, improves the waterproof performance, endows the fiber membrane with good air permeability, and significantly improves the mechanical properties and durability of the fiber membrane.



21: 2024/06406. 22: 2024/08/21. 43: 2025/02/27
51: B32B

71: Wen'an County Hongshuo Composite Materials Technology Co., Ltd.

72: Tongwei Zhang, Qingming Wang, Song Li

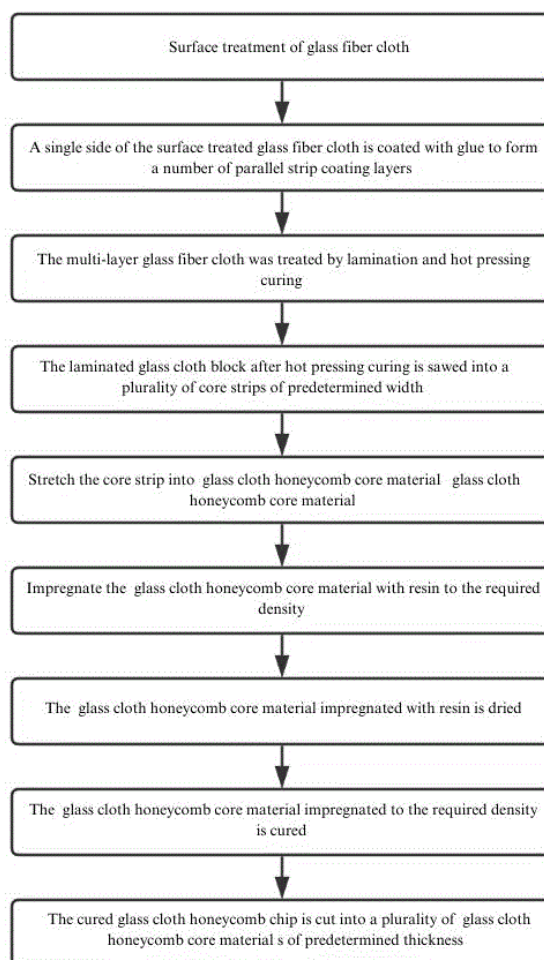
33: CN 31: 202411092385.9 32: 2024-08-09

54: A GLASS CLOTH HONEYCOMB CORE MATERIAL AND A PREPARATION METHOD THEREOF

00: -

The invention provides a glass cloth honeycomb core material and a preparation method thereof. The glass cloth honeycomb core material comprises a plurality of layers of glass fiber cloth bonded to each other. Each layer of the glass fiber cloth comprises a plurality of regular hexagonal holes, and the preparation method includes coating the glass fiber

cloth after surface treatment on one side to form a plurality of parallel strip coating layers; The laminated glass fiber cloth was treated by lamination and hot pressing curing, and the laminated glass cloth was prepared. The glass cloth laminated blocks are sawed into several core strips of predetermined width and stretched into honeycomb core materials of glass cloth. The glass cloth honeycomb core material is impregnated with resin to the required density and dried; The glass cloth honeycomb core material impregnated to the required density is cured; The cured glass cloth honeycomb core material is cut into a plurality of glass cloth honeycomb core material of predetermined thickness. The invention can prepare glass cloth honeycomb core material with different properties according to different requirements and apply it in various fields.



21: 2024/06407. 22: 2024/08/21. 43: 2025/03/03

51: G01N

71: SHANGHAI UNIVERSITY OF MEDICINE AND HEALTH SCIENCES

72: XIONG, Honglin, ZHOU, Liang, ZHAO, Wenlong, KOMOLAFE, Temitope Emmanuel, ZHOU, Shiqing, WANG, Xinyu

54: GLASS SURFACE DEFECT DETECTION METHOD

00: -

The present application discloses a glass surface defect detection method, and relates to the field of computer vision. The method includes: acquiring a to-be-detected glass defect image; pre-processing the to-be-detected glass defect image to obtain multiresolution glass defect images; in the method, image Difference of Gaussian pyramid decomposition is added based on the traditional convolution neural network, and a multiscale convolution neural network model is designed; and determining defect categories using a designed glass surface defect detection model based on the multiresolution glass defect images; the glass surface defect detection model is obtained by training the multiscale convolution neural network model using a training dataset; a multiscale convolution neural network model structure includes an input layer, three convolution layers, three pooling layers, three full-connected layers, and a Softmax classifier. The present application improves the accuracy of glass surface defect detection.

21: 2024/06413. 22: 2024/08/21. 43: 2025/02/27

51: F28D; F28F

71: KILIANNRGS

72: DE LILLE, Kilian, D'HONDT, Filip

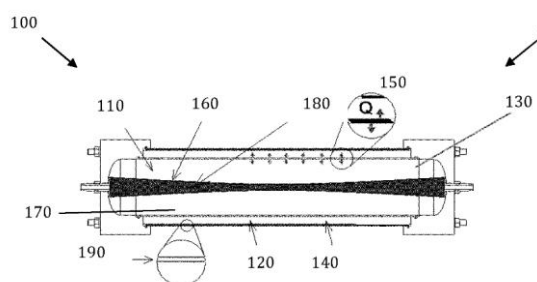
33: EP 31: 22154864.7 32: 2022-02-02

54: ENERGY HANDLING SYSTEM

00: -

An energy handling system (1) for converting, storing or transmitting energy is described. The energy handling system (1) comprises a heat exchange unit (100) for exchanging heat between a first substance (110) and a second substance (120). The heat exchange unit (100) comprises a first inner compartment (130) and a second outer compartment (140) being positioned adjacent each other and being separated by a heat exchange surface (150). The system also comprises a balloon (160) being mounted in the first inner compartment (130) so as to form in the first inner compartment (130) a

hermetically sealed volume (170) between the outer surface of the balloon (160) and the heat exchange surface (150). The hermetically sealed volume (170) is being filled with the first substance (110), the balloon (160) is configured for being filled with a balloon fluid (180) and the second outer compartment (140) is being filled with the second substance (130). The area of the heat exchange surface (150) that is in contact with the first substance (110) and a second substance (120) remains substantially the same during the heat exchange process.



21: 2024/06429. 22: 2024/08/22. 43: 2025/02/27

51: A01H

71: SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, Xinjiang Hongtai Seed Industry Technology Co., Ltd.

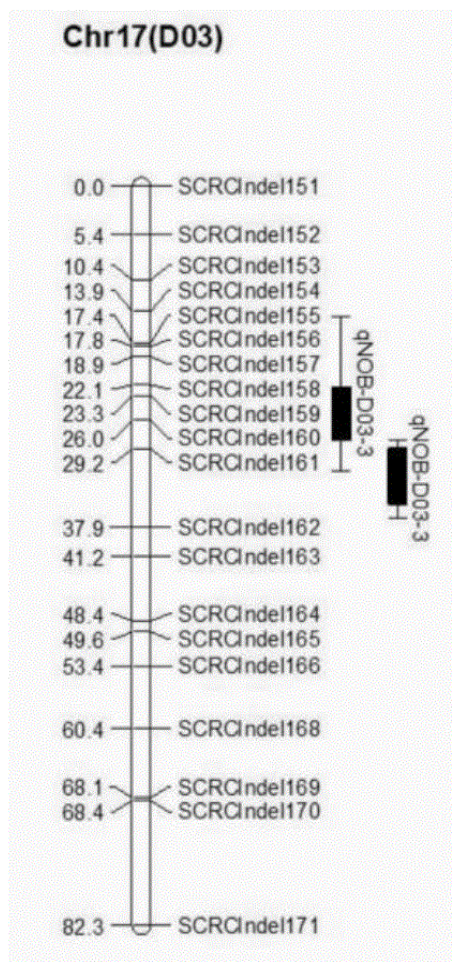
72: ZHOU, Juan, DU, Zhaohai, CUI, Xinyu, LUO, Cheng, LV, Wanyu, YUAN, Yang, PAN, Ao, CHEN, Yu, GAO, Yang, WANG, Furong

54: SCREENING METHOD FOR COTTON HAVING HIGH YIELD TRAIT, KIT AND APPLICATION

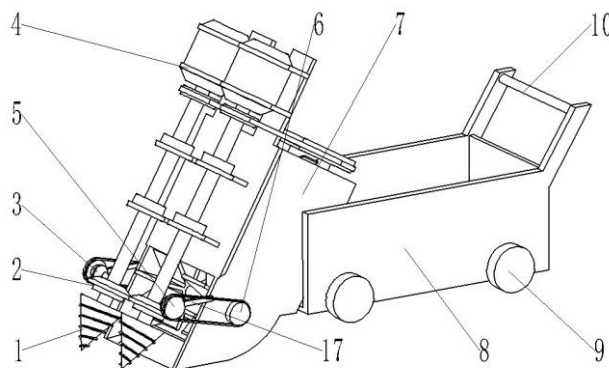
00: -

The present invention provides a screening method for cotton having a high yield trait, a kit and application, which belongs to the technical field of upland cotton breeding. According to the present invention, insertion-deletion (InDel) molecular markers of SCRCInDel161 and SDCC15 are provided, primer sets corresponding the two molecular markers are employed to carry out molecular testing on a single plant or a plant line of a target population, testing results are analyzed, and plants having characteristic bands of 188 bp, 126 bp and 200 bp are selected to obtain cotton varieties with improved cotton yields. The method provided by the present invention can be applied to molecular marker-assisted selection breeding and molecular polymerization breeding, which improves breeding

selection efficiency and polymerization efficiency, and rapidly and efficiently cultivates new high-yield cotton varieties.



conveying mechanism is not greater than that of the pressure relief groove, and the discharge port of the broken soil conveying mechanism is communicated with the accommodating cavity of the soil storage vehicle; a pair of crushing mechanisms fixed at the front end of the broken soil conveying mechanism, and the working ends of the crushing mechanisms extend into the pressure relief groove and are aligned with the feed inlet of the broken soil conveying mechanism; a pair of transmission mechanisms arranged on the crushing mechanism and in transmission connection with the broken soil conveying mechanism, and the movable end of the crushing mechanism drives the broken soil conveying mechanism to feed.. The invention can improve the working efficiency.



21: 2024/06430. 22: 2024/08/22. 43: 2025/03/10
 51: E01C
 71: Taiyuan University of Science and Technology
 72: LIANG Lei, FU Yuping
54: CUTTING DEVICE FOR PREVENTING AND CONTROLLING PRESSURE RELIEF GROOVE OF FLOOR HEAVE OF COAL MINE ROADWAY

00: -
 The invention belongs to that technical field of coal mining, in particular to a cutting device for preventing and controlling pressure relief groove of floor heave of coal mine roadway, comprising: a soil storage vehicle; a pair of broken soil conveying mechanisms fixed at the front end of the soil storage vehicle, wherein the feed inlet of the broken soil conveying mechanism extends into the pressure relief groove, and the width of the feed inlet of the broken soil

21: 2024/06431. 22: 2024/08/22. 43: 2025/03/03
 51: B03D
 71: Central South University, Guangzhou Yueyouyan Mineral Resources Technology Co., Ltd.
 72: WANG Fengyu, ZHONG Senlin, XIE Baohua, LIANG Taomao, HU Hongxi, YANG Jiping, CHEN Ruipeng, CHEN Long, CHEN Li, SU Dong
54: NONTOXIC CHELATING FLOTATION COLLECTOR FOR ILMENITE TITANIUM SELECTION

00: -
 The invention discloses a nontoxic chelating flotation collector for ilmenite titanium selection, in particular to a vanadium-titanium magnetite flotation collector and a preparation method thereof, belonging to the technical field of mineral flotation collectors. The collector for ilmenite flotation is characterized in that its chelating collector is compounded with palmitic acid, linoleic acid, phenylhydroxamic acid, dibutyl ammonium dithiophosphate and surfactant, and then saponified with caustic soda. The raw materials are

respectively weighed according to the formula, followed by mixing, heating to 55-70 degrees Celsius, stirring for 1.5h-2h, and uniformly stirring to prepare the ilmenite flotation collector; the nontoxic chelating flotation collector for ilmenite titanium selection has good solubility, dispersibility and selectivity, while effectively ensuring the beneficiation effect of ilmenite, it is low in cost, safe and environment-friendly, and the fine grade and recovery rate of ilmenite can be effectively improved after the components cooperate. The collector has strong collecting power, good selectivity, environmental friendliness and good market promotion value.

21: 2024/06432. 22: 2024/08/22. 43: 2025/03/03
51: H01L

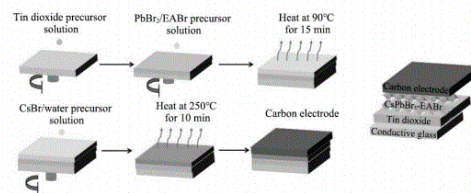
71: Henan University of Urban Construction
72: LIU, Le, WANG, Yarui, SHI, Yue, WANG, Chaoyong, YANG, Yonghao

33: CN 31: 202410910109.2 32: 2024-07-08

54: CSPBBR3 PEROVSKITE THIN FILM AND PREPARATION METHOD AND APPLICATION THEREOF, AND ALL-INORGANIC PEROVSKITE SOLAR CELL

00: -

A CsPbBr₃ perovskite thin film and a preparation method and application thereof, and an all-inorganic perovskite solar cell (PSC) are provided, falling within the technical field of solar cells. In the present invention, a multifunctional additive, EABr, is incorporated into PbBr₂, and a high-quality CsPbBr₃ thin film is obtained by a two-step method using a CsBr aqueous solution. During the first spin-coating, EABr is introduced into a PbBr₂ layer, which promotes the wettability of the PbBr₂ layer and produces a space for growing large perovskite grains. During the second spin-coating, a green high-concentration CsBr aqueous solution is used, and sufficient CsBr can be deposited by a simple one-step method. Therefore, a prepared PSC shows excellent performance with an efficiency of 7.32 percent, and an unencapsulated device can maintain over 90 percent of its initial efficiency after 45 d of storage under ambient conditions.



21: 2024/06436. 22: 2024/08/22. 43: 2025/03/10
51: A61M

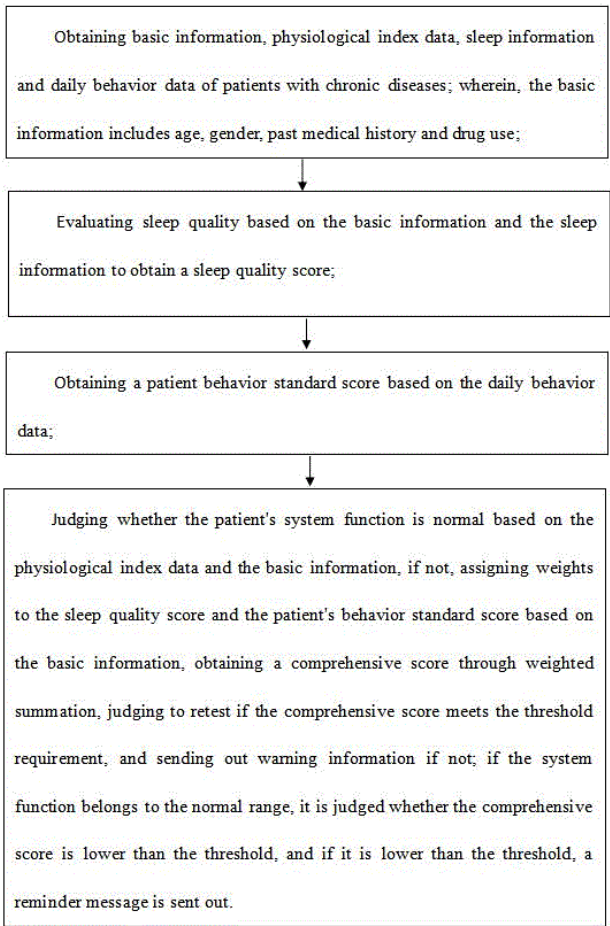
71: SHANGHAI UNIVERSITY OF MEDICINE & HEALTH SCIENCES, HOU Liying

72: HOU Liying, SHI Tianqi

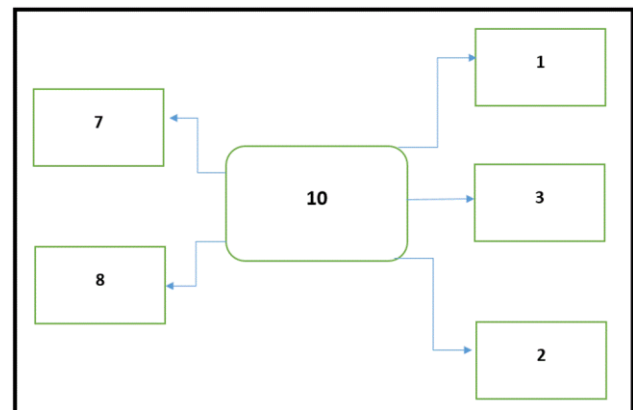
54: BIOLOGICAL CLOCK MONITORING METHOD FOR PATIENTS WITH CHRONIC DISEASES

00: -

The invention discloses a biological clock monitoring method for patients with chronic diseases, which comprises the following steps: acquiring basic information, physiological index data, sleep information and daily behavior data of patients with chronic diseases; among them, the basic information includes age, gender, past medical history and drug use; evaluating sleep quality based on basic information and sleep information to obtain sleep quality score; obtaining the score of patients' behavior norms based on daily behavior data; based on the basic information, the weights are assigned to the sleep quality score and the patient's behavior standard score, and the comprehensive score is obtained by weighted summation. Through the comprehensive score and physiological index data, it is judged whether the biological clock is normal and whether information needs to be sent. The invention not only improves the accuracy and efficiency of biological clock monitoring for patients with chronic diseases, but also helps patients to better understand and manage their own health status through personalized evaluation and timely feedback, thus improving the overall quality of life.



communication module is configured to send the acquired data by the data acquisition unit with the master server for continuously monitoring the patients autonomously for creating the alert notification to the medical professionals. The power adaptor is configured to provide the necessary electrical energy to the arduino and Raspberry pi for acquiring and sending the information properly. The casing houses at least one transmission and receiver unit for protecting the parts and components from the internal and external environment. The alert notification module is configured to provide the indication to the healthcare professionals about the patient health condition for taking the necessary actions before the critical condition.



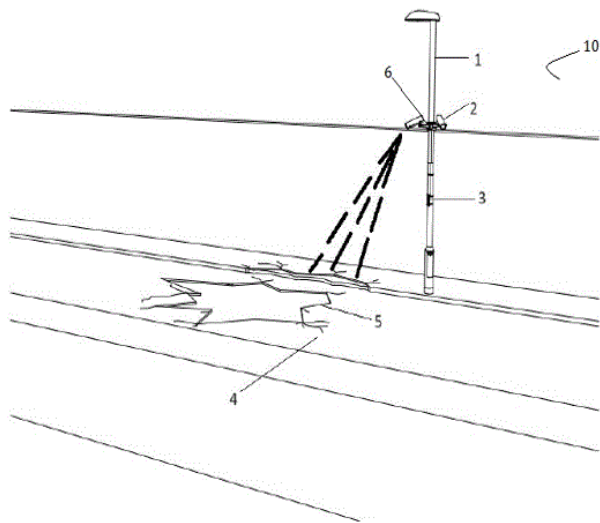
21: 2024/06438. 22: 2024/08/22. 43: 2025/03/03
 51: G06Q
 71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING
 72: Balakumar Asokan, Syed Husain Samsudeen, Viswanathan Balasubramanian, Hariprasath Jayaraman, Infant Stanko Francis, Kishore Kumar Rajarajan, Thamodharan Prabhakaran
54: AN INTERNET OF THINGS BASED HOSPITAL AND PATIENT CARING SYSTEM

00: -
 The present invention discloses an Internet of Things based hospital and patient caring system for monitoring the patients continuously to reduce the accidents. The system comprises a data acquisition unit is operatively coupled with the arduino which is configured to acquire one or more details of one or more patients by means of ECG heart rate sensor, pulse oximeter sensor and temperature sensor for monitoring the patients. The said one or more details may comprise the electro cardiogram data, blood oxygen level, body temperature and the like. The

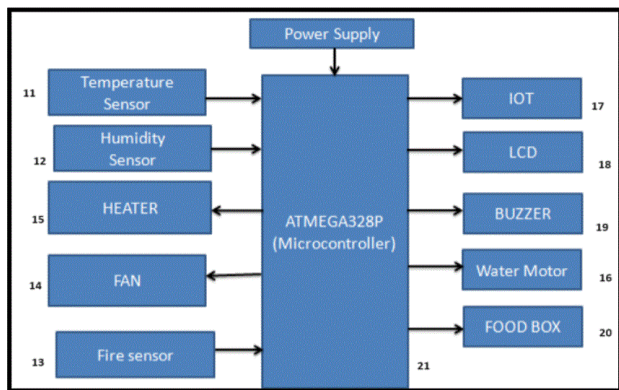
21: 2024/06439. 22: 2024/08/22. 43: 2025/03/03
 51: G08G
 71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING
 72: Nagaraj Palaniyandi, Gokul Bakkiyarasu, Gokula krishnan Selvaraj, Praveen Raj Ayyappan, Sudharson Krishna Sridharan
54: A STREET LIGHT SYSTEM FOR POTHOLE DETECTION

00: -
 The present invention discloses a street light system (10) for pothole detection to reduce the accidents. The street light system (10) comprises a lamppost (1) configured to install the system for detecting the one or more potholes. The camera (2) is detachably coupled with the lamppost for capturing the images of the road surfaces. The processor board (6) is operatively coupled with the camera and lamppost for identifying the potholes in the specified locations by means of predefined instruction. The communication module (8) is configured to intimate the one or more results to the one or more

authenticated locations/persons by means of internet connectivity. The trigger alarm (7) is configured to alert the drivers digitally for reducing the speed or preventing the accidents. The Processor Board (6) that processes input image from the Camera fixed in the lamp post in order to locate and identify potholes on the road surface by using a pre-trained MobileNetV2 model. The present invention (10) will reduce the accidents due to the pothole in an effective manner by communicating the problems to the officials.



be activated based on the processed data from the plurality of sensors. The dehumidifier is connected to the centralized control unit which will be activated based on the processed data from the humidity sensors. The automated water pumps (16) and feeding mechanisms connected to the centralized control unit, configured to ensure consistent supply of water and feed. The alert notification system configured to send real-time alerts via email or SMS based on critical sensor readings. The user interface provides the options to check the parameters by the user using one or more handheld devices. The present invention will increase the productivity in an effective manner.



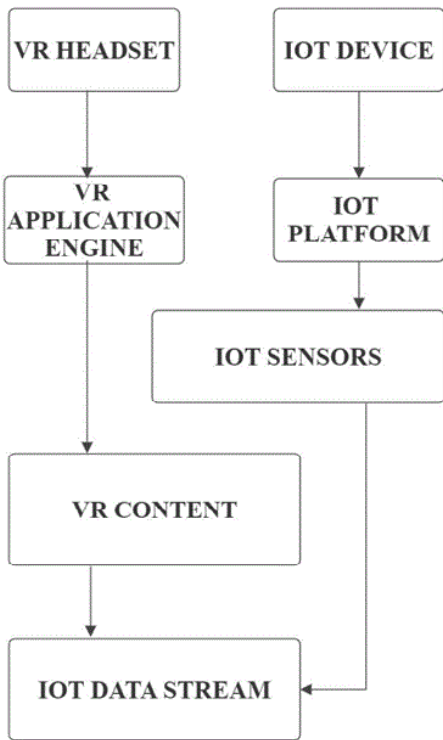
21: 2024/06440. 22: 2024/08/22. 43: 2025/03/03
 51: G06Q
 71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING
 72: Rajendran Manivasagam, Elumalayan Sivasubramaniam, Sivakavi Logasewaran, Ramaraju Prasanna, Mathivanan Sivaguru
54: IOT BASED POULTRY FARM MANAGEMENT SYSTEM

00: -
 The present invention discloses an IoT based poultry farm management system for eliminating the accidents and increasing the productivity in affordable price. The system (10) comprises a plurality of sensors operatively connected by the power source for detecting the real time details like temperature, moisture and fire detection. The centralized control unit configured to receive data from the temperature sensors, humidity sensors, and fire detection sensors, and to process the received data. The cooling fans and heating elements connected to the centralized control unit which will

21: 2024/06441. 22: 2024/08/22. 43: 2025/03/03
 51: G05B
 71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING
 72: Kasthuri Rengan Purushothaman, Sasikumar Rajendran, Infantraj Irudaya Raj, Dhanvanthari Devi Ramesh, Harini Thennarasu, Jyothsana Manivannan
54: A VIRTUAL REALITY BASED DEVICES CONTROL SYSTEM

00: -
 The present invention discloses a virtual reality based device control system for controlling the operations of the one or more devices virtually based on the need of the user. The device control system comprises a power source and a plurality of IoT control devices. The plurality of IoT control devices can be installed at the plurality of devices. The smart phone comprises a camera which is configured to recognize the target images for controlling its operations by means of user control. The user interface module is operable by the mobile application which is configured to select the plurality of devices from the mobile control for controlling its

operation by means of user control; The VR controller is operatively coupled with the mobile which is configured to execute the virtual switch features for selecting it virtually to control the operations of the one or more devices. The response confirmation module is providing the executed information to the user through the user handheld devices. The real-time feedback module is configured to eliminate the errors and to improve the rectifications for virtually controlling the devices using the user handheld devices from one or more locations. The present invention will reduce the manual efforts for controlling the operations of the one or more devices in an effective manner.



21: 2024/06442. 22: 2024/08/22. 43: 2025/03/03
51: E01H

71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING

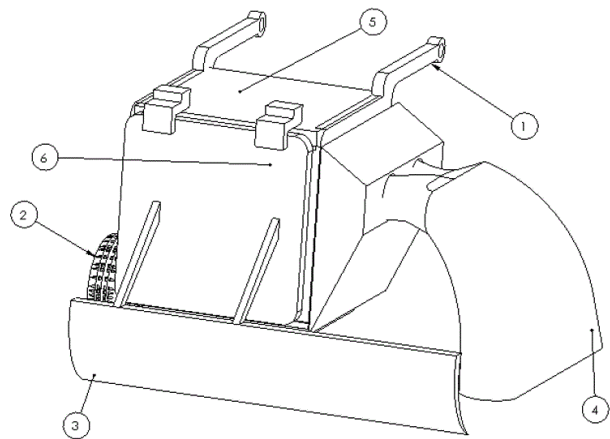
72: Sivasakthivelavan Ganesan, Veerabathiran Kamalakannan, Hariram Jayakumar, Srihari Murugan, Prakash Balachandran

54: PORTABLE ROAD DUST CLEANING DEVICE

00: -

The present invention discloses a portable road dust cleaning device for removing the dust/waste from the roadsides using the vehicle movement. The device

comprises a body and a travel vehicle. The travel device is providing the support for the device movement. The rugged wheel (2) which is provided to withstand the varying terrain of roads, facilitating its movement from one location to another through the supporting wheels. The GSM module (12) integrated into the system which is configured to enable tracking of the machine's location for navigation purposes and centralized control. The sweeper system operates via motor-induced vibrations and is connected to a storage bag for collected debris. The sucking nozzle is incorporated into the machine to extract dust and debris from roadside areas, wherein the sucking nozzle operates with the assistance of a motor and is powered based on the supplied power. The rechargeable battery (10) serves as the primary power source for the machine, enabling its operation, wherein the microcontroller (8) serves as the central control unit, facilitating communication between the machine's components, tracking location via the GSM module, and automating motor operations for dust collection. The lifting device comprises a supporting member, wherein the control unit oversees the lifting method, elevating the wiping module from its initial position relative to the work surface to a higher position.



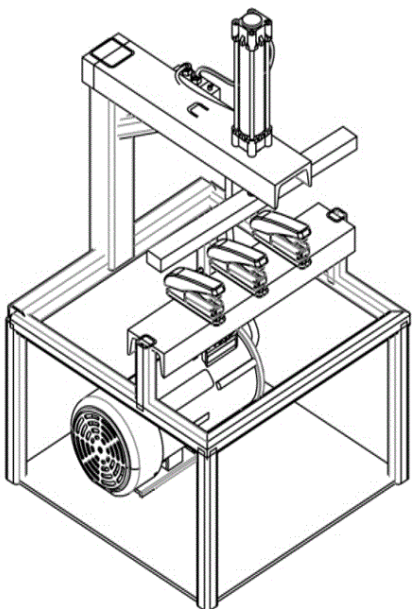
21: 2024/06443. 22: 2024/08/22. 43: 2025/03/03
51: B25C

71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING

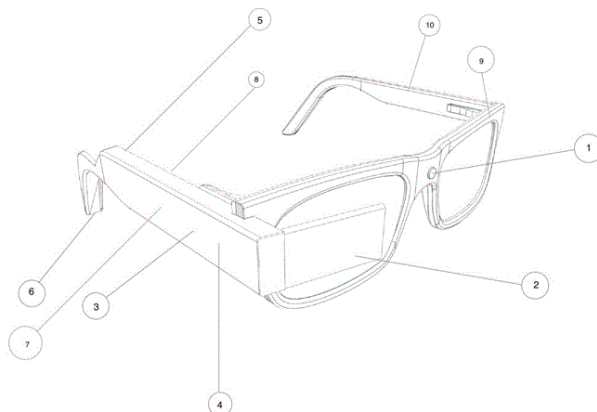
72: Manimaran Malairajan, Ragul Shanmugam, Revanth Pandiyan, Sugeerth Palanisamy, Edwin Santhosh Jesu Raja Rathinam

54: PNEUMATIC STAPLER MACHINE

00: -
 The present invention discloses a pneumatic stapler machine for stapling the plurality of pages in a same time using the compressed air control. The pneumatic stapler machine comprises a power source and a frame. The machine also comprises an air compressor, piston and a trigger. The air compressor (4) or an air hose connection that supplies compressed air to the tool, wherein the air compressor (4) pressurizes the air, storing it in a tank or delivering it through the air hoses. The piston is connected to a driver blade or anvil at the front end, wherein the piston moves forward, it pushes the driver blade, which, in turn, forcefully ejects a single staple from the magazine. The trigger activates a valve, which allows compressed air to enter the stapler. This innovative machine aims to revolutionize stapling processes in these environments, offering enhanced efficiency and convenience. The Pneumatic Stapling Machine is poised to become an indispensable tool in various professional settings, driving productivity and facilitating seamless operations.



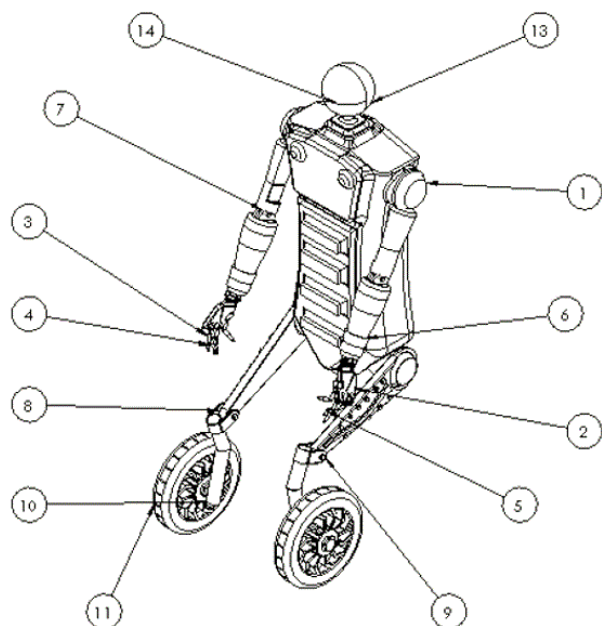
The present invention discloses a smart glass for alzeimer patients for serving as an assistive device for the wearer and the caregiver. The smart glass comprises a frame (9), a camera (1) is detachably mounted on the frame, a touch sensor (5) is coupled with the frame, a display (2) positioned within the user's field of view, a GPS module (8) is configured to identify the geo location of the user at the specified intervals or detection of the movement of the user, an accelerometer (4) coupled with the ear arm (10) for detecting/indicating the abnormal motion of the wearer for preventing the accidents and, a temperature sensor (7) configured for detecting body temperature. The processor unit (3) housed within the frame (9) for processing data from the camera (1), touch sensor (5), GPS module (8), accelerometer (4), and temperature sensor (7). The ear arm (10) extending from the frame (9), wherein the smart glasses device is configured to perform face detection and geo fencing features to provide alerts to a caregiver when predetermined conditions are met, wherein the ear arm provides the continuous instruction to the user. The present invention will reduce the accidents in an effective manner



21: 2024/06444. 22: 2024/08/22. 43: 2025/03/03
 51: A61G
 71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING
 72: NIVETHA SIVAKUMAR, NIVETHA MARAN
54: SMART GLASS FOR ALZEIMER PATIENTS
 00: -

21: 2024/06445. 22: 2024/08/22. 43: 2025/03/03
 51: G06C
 71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING
 72: MURALI RENGASAMY BHUVANESWARI, ROBIN MATHEW THOMAS, SARVESHWARAN HARIHARAN, HARIKISHORE RAMAR, JAFREY DANIEL JAMES DHILIP
54: A SEMI AUTONOMOUS HUMANOID ROBOT FOR SECURITY
 00: -

The present invention discloses a semi-autonomous humanoid robot for security applications to avoid the accidents/risks using the virtual reality technology. The humanoid robot comprises a plurality of rotary elements and actuators operatively connected with the power source for providing the necessary rotary movement to the hands, legs and other body parts of the robot. The robot head is having a 360-degree camera which is configured to visualize the captured details to the user/operator. The wearable suit is configured to worn by the wearer/user/operator for providing the instruction/communication to the robot using the plurality of sensors/Arduino/actuators positioned in the suit. The VR headset is configured to worn by the wearer/user/operator for viewing the realistic details from one or more remote locations. The control system is operatively coupled with the user handheld devices for instructing/operating/controlling the robot functions/operations from the remote locations using the joysticks or the like. The wireless connectivity module is configured to provide the two-way communication between the user and the robot by means of controlling the robot functionalities through the virtual reality headset and joystick. The present invention will reduce the accidents and risks in the field of security applications.



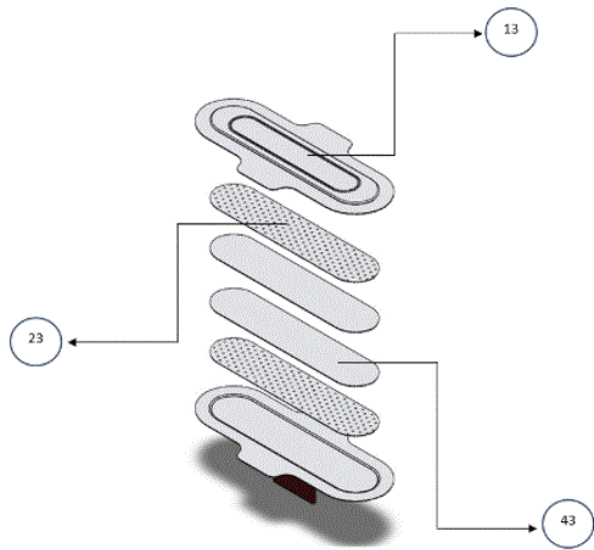
71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING

72: Deepashree Krishnamurty, Rohith Rishan Manoharan, Charu Prabha Prasanna, Charumathi Jaishankar, Dharshini Shanmugam, Muruganantham Thangaraj, Nagarajan Ramanathan, Balamurugan Rajangam

54: BIODEGRADABLE AGAVE SISALANA SANITARY PADS

00: -

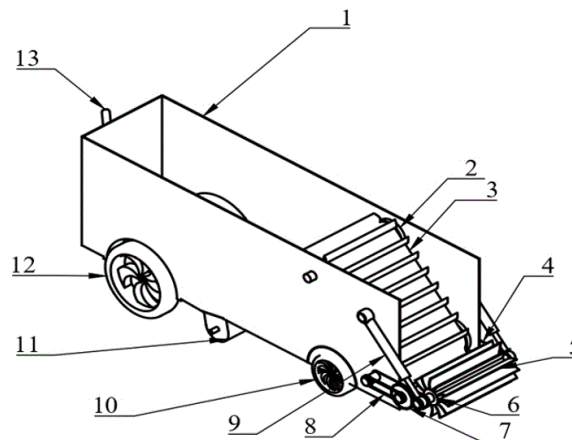
The present invention discloses a preparation method of biodegradable agave sisalana sanitary pads for controlling the usage of synthetic napkins to avoid the irritation/pollution/health problems. The sanitary pads comprising the layers of a top thin layer is having the mixture of sisal and cotton material for acting as the antiseptic agent. The absorbent core layer is thicker than the top layer which is located at the below of top layer and configured to absorb the mensural fluid. The acquisition layer is positioned in between the top and absorbent layer which is configured to absorb the fluid. The secondary layer comprises the cotton and agave mixer cloth which is configured to spread the mensural fluid in the entire pad in an even distribution manner. The back layer is act as the waterproof resistant which is avoiding the leakage of the stain and also allowing air to circulate for breathable to avoid some rashes and irritation in the skin. The disposal baggage can be inserted within a back layer for disposing of the pads in the dustbin. The pair of wings is provided flap to fold and attach with the underwear. The adhesive layer or bottom layer is configured to attach and stuck with the underwear and it is attached to the back layer of the sanitary pads with disposal baggage. The present invention will provide an alternative solution for the usage of synthetic pads.



21: 2024/06447. 22: 2024/08/22. 43: 2025/03/03
 51: B02B
 71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING
 72: Veluchamy Balakrishnan, Karpaga harish Senthil kumar, Karthi Jeeva, Venkat Raman R K, Ajay Senthilkumar
54: GRAIN DEHYDRATION AND COLLECTING MACHINE

00: -
 The present invention discloses a grain dehydration machine for increasing the quality of the products by removing the moisture content using the sunlight. The machine comprises at least two pair of wheels and a storage tank is configured to store the grains before and after collecting it from the dehydration process. The plurality of conveyor belts (3) operable by the gear arrangement which is configured to collect the grains from the ground surface using the reel with rubber blades. The reel with rubber blades are collecting the grains from the ground surface using the motor rotation in a controlled manner. The hydraulic system (9) is configured to adjust the angle of positioning of the reel with rubber blades for collecting the various types of grains in various angle of contact. The conveyor is configured to transport the grains from the collection area to storage area using the control of screw conveyor arrangement. The connecting rod transfers the rotary motion from the gear arrangement to rubber blades in clockwise rotation. The lever (13) is configured to discharge the grains from the storage tank to the required area after the process of dehydration of grains using the

sunlight. The present invention will reduce the manual effort and time consumption for collecting the dehydrated grains in an effective manner.



21: 2024/06450. 22: 2024/08/22. 43: 2025/03/03
 51: G01F; G01N
 71: FLUID TRANSFER TECHNOLOGY PTY LTD
 72: BONDI, Jason Michael
 33: AU 31: 2022900498 32: 2022-03-02
54: REMOTE FLUID SAMPLING

00: -
 Provided is a remote fluid sampler 10 for sampling fluid, such as oil, from machinery 8. The sampler 10 comprises inlet and outlet port 12 and 14 with a fluid circuit 16 defined therebetween. Fluid sampler 10 also include a 4-way diverter control valve 18, a fluid meter 20, a normally-open (NO) control valve 22 arranged in parallel with a normally-closed (NC) control valve 24 for dynamic fluid flow regulation, and a plurality of check valves 26 for passive fluid flow regulation through the fluid circuit 16. Also included is a sampling port 28 for receiving a metered dose of fluid, and a controller 32 arranged in signal communication with the fluid meter, 4-way diverter and control valves and configured to perform a user-configurable control regime comprising a flush cycle and a meter cycle wherein the sampler facilitates flushing of fluid through the fluid circuit to allow collection of a homogeneous fluid sample from the machinery, in use.

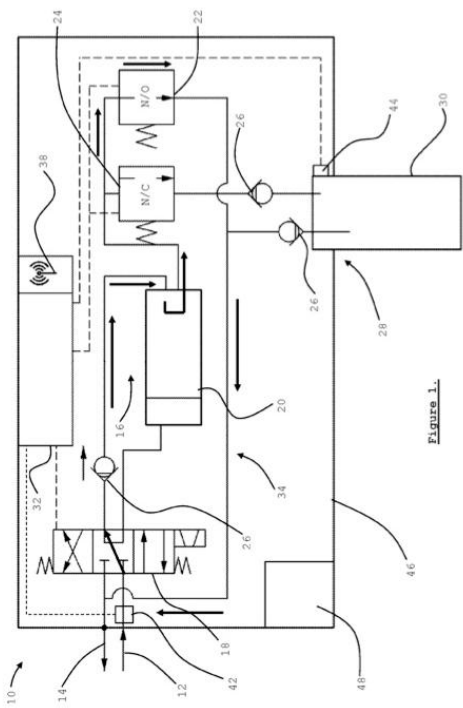
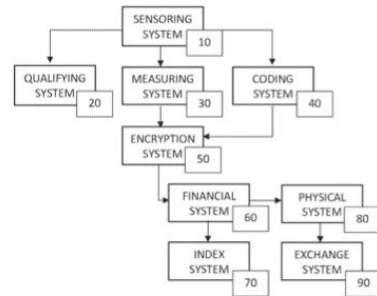


Figure 1.



21: 2024/06453. 22: 2024/08/22. 43: 2025/03/03
51: G06Q

71: UNIVERSAL CARBON HOLDINGS INC.
72: BRAY, Dorothy, JAMMAL, Michel, BREWER, Lynn

33: US 31: 63/369,268 32: 2022-07-25
33: US 31: 63/369,369 32: 2022-07-25

54: AUTONOMOUS CLIMATE TECHNOLOGY ECOSYSTEM FOR COMPUTER- GENERATED UNIFORM ENCRYPTED CARBON CREDIT CERTIFICATES

00: -
A climate technology ecosystem is disclosed that automates the collection and processing of data by way of programmed computer software to automatically generate uniform encrypted carbon credit certificates that can be traded on peer-to-peer exchanges or as derivatives. The Autonomous Climate Technology Ecosystem (ACTE) creates a network of information derived from nine systems designed to: sensor, qualify, measure, encode, encrypt, issue, index, register, and exchange, all of which rely upon artificial intelligence to identify, calculate and quantify the source and origin of carbon and automatically generate uniform encrypted carbon credit certificates based upon the nature and attributes of the carbon and associated CO₂e.

21: 2024/06454. 22: 2024/08/22. 43: 2025/03/03
51: C08L; C09J

71: LORD CORPORATION
72: AGAG, Tarek, MATTS, Jeffrey M., HULTMAN, Kimberly Ray

33: US 31: 63/310,429 32: 2022-02-15

54: COLD BONDING ADHESIVES FOR BONDING VULCANIZED RUBBER COMPOUNDS FOR INDUSTRIAL APPLICATIONS

00: -
One-part (1K) and two-part (2K) cold bonding adhesive compositions for bonding vulcanized rubber compounds are described. The compositions can be used to bond vulcanized elastomers, such as chloroprene and buffed natural rubber, to themselves or to metal. The compositions can be free of hazardous chemicals often used in cold bonding adhesives, such as monomeric isocyanates and/or trichloroethylene or other chlorinated solvents. The adhesives also offer easy application and long pot life.

21: 2024/06455. 22: 2024/08/22. 43: 2025/03/03
51: B25H; E21B

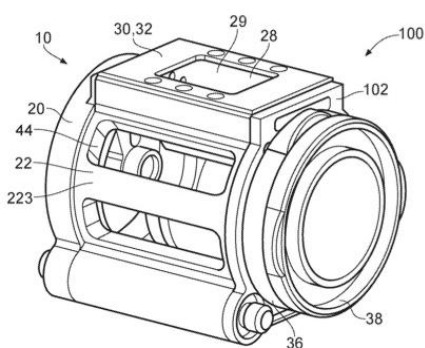
71: IMDEX TECHNOLOGIES PTY LTD
72: COPLIN, Nicholas, MARCH, Andrew, MORRISH, Neil Anthony, REILLY, James Barry, PETERSEN, Jacob, GABBITUS, Mark, SMITH, Grainne, PAYNE, Nicholas, NEWLOVE, Pauline, PRITCHARD, David, NGUYEN, Aaron Huy, RODGERS, Brendyn

33: AU 31: 2022900929 32: 2022-04-08
33: AU 31: 2023900156 32: 2023-01-23

54: DEVICES FOR MARKING A CORE SAMPLE

00: -
Device (10) for guiding a user to mark a core sample (12) carried by a core tube (14), the device (10) including: a housing (20) mountable relative to the core sample (12) or the core tube (14) and having a marking guide (22) configured to be arranged adjacent the core sample (12) to guide marking; a

communications module (26) operable to communicate with the downhole tool (16) to receive data; a user interface (28) operable to convey perceptible feedback to the user; and a processor (30) and associated memory (32). The processor (30) is configured to store data in the memory (32) and determine a marking position based on the data, and operate the user interface (28) to direct the user to cause relative rotation of the marking guide (22) and the core sample (12) so that the marking guide (22) is aligned with the marking position, allowing the user to use the marking guide (22) to mark the core sample (12) at the marking position.



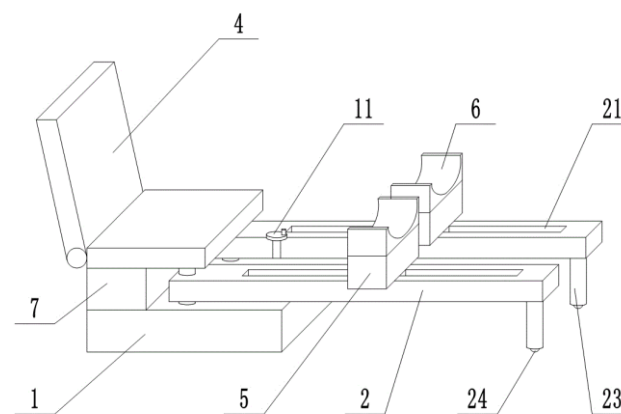
21: 2024/06463. 22: 2024/08/22. 43: 2025/03/03
 51: A61K; C07K; C12N; A61P
 71: SHANGHAI HENLIUS BIOTECH, INC., SHANGHAI HENLIUS BIOPHARMACEUTICAL CO., LTD., SHANGHAI HENLIUS BIOLOGICS CO., LTD.
 72: LIN, Pei-Hua, JIANG, Wei-Dong, XU, Wenfeng, ISSAFRAS, Hassan, TSENG, Chi-Ling, WANG, Jiin-Tarn
 33: CN 31: PCT/CN2022/082932 32: 2022-03-25
54: ANTI-MSLN ANTIBODIES AND METHODS OF USE

00: -
 Provided are antibodies and antibody derivatives that bind to MSLN and methods of using the same. The antibody or antibody derivative comprises a single domain antibody that binds to MSLN.

21: 2024/06469. 22: 2024/08/23. 43: 2025/03/07
 51: A63B
 71: Zhaoqing University
 72: WANG Juan
54: SPORTS FITNESS EQUIPMENT

00: -
 The invention relates to the technical field of fitness equipment, in particular to a sports fitness

equipment, which comprises a base, wherein one side of the top surface of the base is fixedly connected with a seat through a supporting block; an adjusting component is symmetrically arranged on the other side of the top surface of the base; a control component is arranged between two adjusting components; the control component is used for driving the adjusting component to rotate; the adjusting component is rotationally connected with the bottom surface of the seat; and the supporting component is fixedly connected with one end of the adjusting component far from the base. According to the invention, the distance between the two adjusting components can be controlled through the driving component, so that the hip opening and the sitting body flexion can be exercised; at the same time, different users can adjust according to their own conditions through the adjustment component, so that different users can use it comfortably.



21: 2024/06470. 22: 2024/08/23. 43: 2025/03/03
 51: C04B
 71: University of Science and Technology Beijing, Solid Waste and Chemicals Management Center of the Ministry of Ecology and Environment of China
 72: LI Yunyun, DU Huihui, HUO Huimin, QI Zihan, MU Xinli, CHEN Xinying, YANG Guodong, NI Wen
54: HIGH-STRENGTH MAGNESIUM OXYSULFIDE CEMENT AND PREPARATION METHOD THEREOF

00: -
 The invention discloses a high-strength magnesium oxysulfide cement and a preparation method thereof, and belongs to the field of building materials. The raw materials include the following components: 40-80 parts by mass of lightly burned magnesium oxide

powder, 15-50 parts by mass of magnesium sulfate heptahydrate, 20-50 parts by mass of water, 0.1-2 parts by mass of modifier and 0-100 parts by mass of fly ash. The invention prepares a high-strength magnesium oxysulfate cement, and the addition of the modifier changes the main hydration products, from $5\text{Mg}(\text{OH})_2 \cdot \text{MgSO}_4 \cdot 3\text{H}_2\text{O}$ (phase 513) to $5\text{Mg}(\text{OH})_2 \cdot \text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ (phase 517), and the phase 517 is a whisker with good water resistance, so that the modified magnesium oxysulfate cement have excellent properties such as high strength, high flexural strength and high water resistance, and solves the problems of poor water resistance and small application range of magnesium oxysulfate cement.

21: 2024/06472. 22: 2024/08/23. 43: 2025/03/03
51: H01F

71: THE AFFILIATED HOSPITAL OF GUIZHOU MEDICAL UNIVERSITY

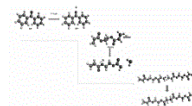
72: WANG, Xiaoyu, YANG, Hua, CUI, Junshuan, YAN, Zhangwei, XIANG, Xin, LIU, Haonan, ZENG, Xi, ZHOU, Xingwang

33: CN 31: 20241092411.5 32: 2024-07-10

54: ELASTIC PHOTOCURABLE PEGDA COMPOSITE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention provides an elastic photocurable polyethylene glycol diacrylate (PEGDA) composite material and a preparation method and application thereof, and belongs to the technical field of biomedical materials. The present invention provides an elastic photocurable PEGDA composite material. The composite material is prepared, through photocuring reaction, from the following raw materials, in mass fraction, of 60-80 percent of polyethylene glycol diacrylate, 8-10 percent of polyethylene glycol, 2.5-5 percent of benzophenone, 0.2-0.5 percent of diphenylethanone, and the balance water. According to the present invention, a photocuring process is accurately controlled by specifically limiting a photoinitiator and a stabilizer, such that predictability and security of treatment are improved; stimulation and reaction to surrounding tissues are greatly reduced by adding the polyethylene glycol (PEG), such that biocompatibility after long-term implantation is improved.



21: 2024/06473. 22: 2024/08/23. 43: 2025/03/03
51: A01N

71: Fujian Xinghua Agriculture and Forestry Hi-Tech Research Institute

72: XU, Li, XU, Jiandong, LI, Yongsheng, XIE, Zhenglin, XU, Huamei, XU, Liying, JIANG, Yadong, GAN, Wenfeng

54: CONTROL AGENT FOR SPARTINA ALTERNIFLORA, METHOD FOR CONTROLLING SPARTINA ALTERNIFLORA, AND APPLICATION

00: -

The present invention provides a control agent for *Spartina alterniflora*, a method for controlling the *Spartina alterniflora*, and an application, which belong to the technical field of weeding. The control agent for *Spartina alterniflora* provided by the present invention is prepared from three kinds of herbicides including imazethapyr, mesulfuron-methyl and haloxyfop-p-methyl. A mass ratio of the imazethapyr to the mesulfuron-methyl to the haloxyfop-p-methyl is (1-50):(1-50):(1-10). In combination with the method for controlling the *Spartina alterniflora*, the control agent for *Spartina alterniflora* provided by the present invention can achieve the effect of thoroughly killing the *Spartina alterniflora* on prevention and control over the *Spartina alterniflora*, is safe to fish, crabs, shellfish, etc., and is very suitable for popularization and application in coastal sea areas.

21: 2024/06474. 22: 2024/08/23. 43: 2025/03/03
51: B23Q

71: Suzhou Vocational University

72: LI, Zhenxing, WANG, Shun, WANG, Wei, GU, Xing, WANG, Jia

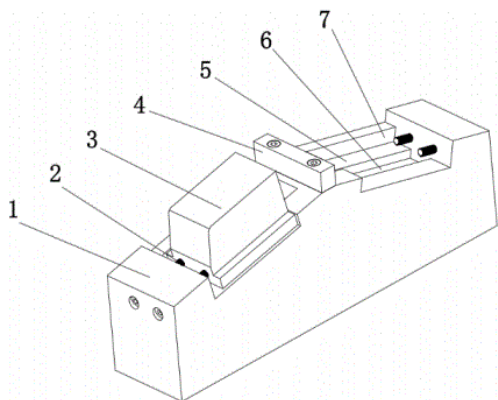
33: CN 31: 202410866852.2 32: 2024-07-01

54: CLAMP FOR MACHINING THROUGH HOLE OF SLIDE BLOCK OF LATERAL CORE PULLING MECHANISM

00: -

Disclosed in the present invention is a clamp for machining a through hole of a slide block of a lateral core pulling mechanism. The clamp includes a clamp body and a fastening structure, where a mounting groove and a chip groove are formed in the clamp body, the mounting groove is configured

to accommodate the slide block, the chip groove is configured to accommodate chips generated by machining the through hole of the slide block, the fastening structure is connected to the clamp body, and the fastening structure is configured to fix the slide block in the mounting groove. The clamp for machining a through hole of a slide block of a lateral core pulling mechanism disclosed in the present invention has accurate positioning and stable clamping, and solves the problem that processing precision of an inclined guide post hole of a slide block is low.

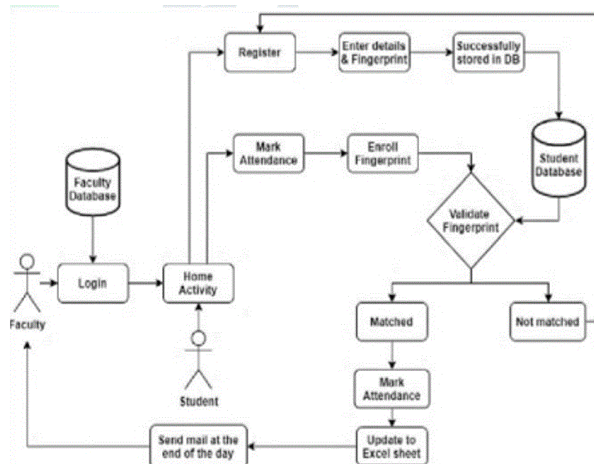


21: 2024/06480. 22: 2024/08/23. 43: 2025/03/03
 51: G07C
 71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING
 72: NITHYA MATHIYALAGAN, AROCKIA JESURAJ YAGAPPAN, JOHN PETER THIRAVIASAMI, HARI KUMARAN VENKATESHWARAN, GOWTHAM KANNAN

54: A MOBILE FINGERPRINT BASED ATTENDANCE REGISTER

00: -
 The present invention discloses a mobile fingerprint based attendance register system for identifying the presence of the members/students in a restricted region. The mobile fingerprint based system comprises a mobile. The mobile is configured to capture multiple images of a user's fingerprint from different angles using the smartphone's fingerprint sensor. The fingerprint template is stored within a Trusted Execution Environment (TEE) for enhanced security. The processor is configured to execute the captured fingerprint data to create a unique template. The memory module is provided for

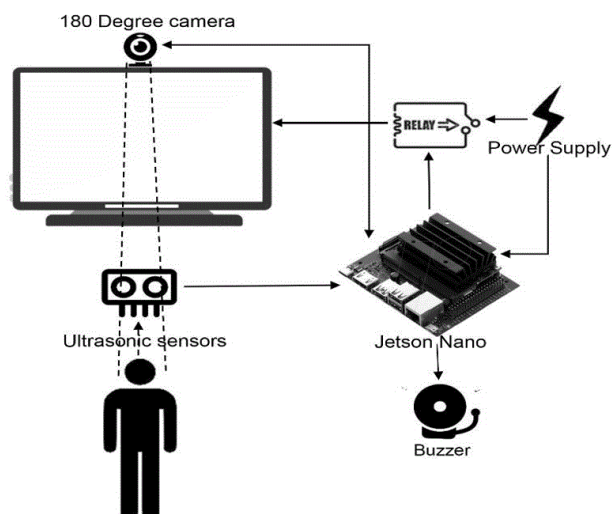
securely storing the fingerprint template within the smartphone's memory or a designated secure area.



21: 2024/06481. 22: 2024/08/23. 43: 2025/03/03
 51: H04L
 71: K.RAMAKRISHNAN COLLEGE OF ENGINEERING
 72: JOHN PETER THIRAVIASAMI, NITHYA MATHIYALAGAN, GURUPRAKASH KANNAN, GANESH RAM MOHANRAJAN, GIRIDHARAN KUMARESAN, AJANTHAN VEERASAMY, JOSHUA SANTHOSH ILAMPARITHI

54: A TELE PROTECTOR SYSTEM

00: -
 The present invention discloses a tele protector system for protecting the eyes of the human/children. The system comprises a camera module capturing live video feed of an area surrounding a television, a Jetson Nano computing platform processing the live video feed in real-time, and a deep learning model trained to identify humans within proximity to the television based on the processed video feed. Additionally, the system includes a relay configured to cut off power supply to the television upon detection of a human within a predetermined distance from the television. An ultrasonic sensor measures the distance between objects and the television, providing data to the relay for system operation, while a buzzer provides a warning if a human is detected near the television. The deep learning model utilizes advanced computer vision techniques, and the system incorporates a power-saving feature to minimize energy wastage. The present invention will reduce the eye problems in an effective manner.



21: 2024/06482. 22: 2024/08/23. 43: 2025/03/04
51: B63B

71: K.RAMAKRISHNAN COLLEGE OF
ENGINEERING

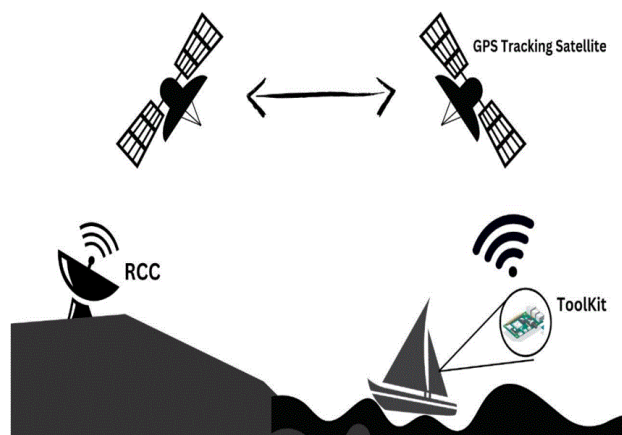
72: Kasthuri Rengan Purushothamam, Amudha
Louies, Saranya Sundararaju, Noor Rahman
Saleem, Yuvaraj Ramesh, Natanesh Senthilvel

**54: A SYSTEM FOR GUIDING FISHERMAN IN
OCEAN**

00: -

The present invention discloses a device to comprehensive navigation and safety system designed to address the challenges faced by fishermen operating in coastal areas. The system comprises a compact device equipped with multiple features aimed at enhancing navigation, border monitoring, distress signalling, and legal protection for fishermen. The device incorporates a GPS (Global Positioning System) module to track the real-time location of fishermen and provides warnings when approaching maritime borders. This system further includes an alarm system to alert authorities and send distress signals to family members in case of potential border violations or emergencies. Additionally, the system features a log manager to record and store location data, serving as evidence to support fishermen in legal proceedings. Furthermore, the device includes a health monitoring system, enabling fishermen to send distress signals in case of health emergencies. This system automatically notifies emergency responders and family members, ensuring timely assistance. The invention offers a comprehensive solution to enhance the safety, security, and legal protection of

fishermen, thereby contributing to the well-being of coastal communities.



21: 2024/06483. 22: 2024/08/23. 43: 2025/03/04
51: A01N; A01P

71: NANTONG JIANGSHAN AGROCHEMICAL &
CHEMICALS CO., LTD.

72: WANG, Li, FU, Ruixia, WANG, Junping, ZHU,
Yanmei, FAN, Meiyun

33: CN 31: 202211236697.3 32: 2022-10-10

54: HERBICIDAL COMPOSITION CONTAINING 3-(2-CHLORO-4-FLUORO-5-(3-METHYL-2,6-DIOXO-4-TRIFLUOROMETHYL-3,6-DIHYDROPYRIMIDIN-1(2H)-YL)PHENYL)-5-METHYL-4,5-DIHYDROISOXAZOLE-5-CARBOXYLIC ACID ETHYL ESTER AND GLUFOSINATE-P AND USE THEREOF

00: -

The present invention relates to the technical field of pesticides, and specifically sets forth an herbicidal composition containing 3-(2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydropyrimidin-1(2H)-yl)phenyl)-5-methyl-4,5-dihydroisoxazole-5-carboxylic acid ethyl ester and glufosinate-P and a use thereof, the raw materials for the preparation thereof at least comprising 3-(2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydropyrimidin-1(2H)-yl)phenyl)-5-methyl-4,5-dihydroisoxazole-5-carboxylic acid ethyl ester and glufosinate-P. The dosage form of the herbicidal composition is at least one of a microemulsion, a water emulsion, a dispersible oil suspension, granules, a wettable powder, and water-dispersible granules. The compounding of 3-(2-chloro-4-fluoro-5-(3-methyl-2,6-dioxo-4-trifluoromethyl-3,6-dihydropyrimidin-1(2H)-yl)phenyl)-5-methyl-4,5-dihydroisoxazole-5-carboxylic acid

ethyl ester and glufosinate-P expands the herbicidal spectrum and improves the herbicidal effect, has the advantages of being quick to take effect, having a long lasting effect, delaying herbicide resistance, thorough weed removal, low residue, low toxicity, safety, and being environmentally friendly, and has a good preventative effect on weeds of non-cultivated land.

21: 2024/06489. 22: 2024/08/23. 43: 2025/03/04
51: A61K

71: LEIUTIS PHARMACEUTICALS LLP
72: KOCHERLAKOTA, Chandrashekhar, BANDA, Nagaraju, NARALA, Arjun, AKULA, Srinath
33: IN 31: 202241004161 32: 2022-01-25

54: NOVEL NAPROXEN SODIUM PREPARATIONS FOR PARENTERAL ADMINISTRATION

00: -
The present invention relates to a stable, parenteral formulations of naproxen sodium. The formulation further relates to liquid formulations comprising naproxen sodium, cyclodextrin and optionally other pharmaceutically acceptable excipients selected from pH modifying agents, chelating agents and tonicity agents. Also relates to the process of preparing the same. These formulations are stable when stored at recommended storage conditions and can be manufactured using simple manufacturing procedure. These compositions can be used to treat pain, particularly when quicker onset of action is desired. Further the present invention also relates to the parenteral formulations of naproxen in combination with additional active ingredients.

21: 2024/06490. 22: 2024/08/23. 43: 2025/03/04
51: C02F

71: CLEAN WATER SPA
72: TORRES SAAVEDRA, Óscar Alejandro
54: COMPOSITION AND METHOD FOR TREATING AND PURIFYING WATER BY MEANS OF A COMBINATION OF COMPOUNDS DERIVED FROM ALUMINIUM, CHLORINE AND SODIUM

00: -
The invention provides a portable composition for treating and/or purifying water according to regulations in force. The composition allows water to be treated quickly with a safe composition and in small doses of additives, without consuming

electrical energy. A method is also provided for treating and purifying water using the formula according to the invention.

21: 2024/06519. 22: 2024/08/26. 43: 2025/03/04
51: C04B

71: University of Science and Technology Beijing, Solid Waste and Chemicals Management Center of the Ministry of Ecology and Environment of China
72: LI Yunyun, DU Huihui, HUO Huimin, QI Zihan, LI Ning, MU Xinli, CHEN Xinying, GU Mingyuan, NI Wen

54: ALL-SOLID WASTE-BASED CEMENTITIOUS MATERIAL, PREPARATION METHOD AND APPLICATION THEREOF

00: -
The invention relates to the field of comprehensive utilization of solid waste resources and building materials, in particular to an all-solid waste-based cementitious material, a preparation method and application thereof. The all-solid waste-based cementitious material comprises 55 percent-75 percent of vanadium-titanium slag powder, 15 percent-35 percent of steel slag and 10 percent-20 percent of industrial by-product gypsum, where the specific surface areas of the vanadium-titanium slag powder, the steel slag and the industrial by-product gypsum are all 400 m²/kg-700 m²/kg, and the particle sizes are all 0.5-1 mm. The invention solves the problems of low utilization rate of vanadium-titanium slag, high energy consumption and serious pollution in the process of concrete preparation, and significantly increases economic and environmental benefits.

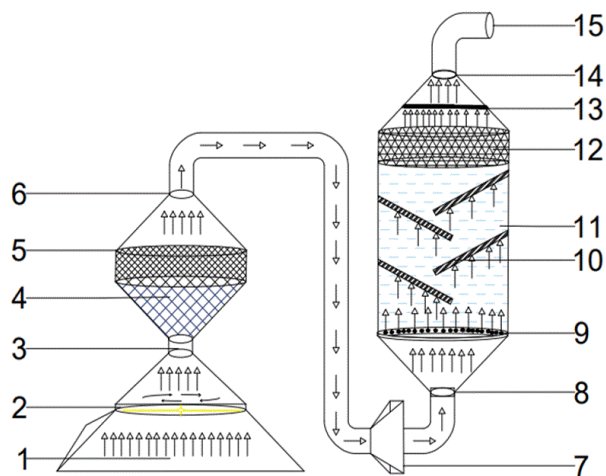
21: 2024/06522. 22: 2024/08/26. 43: 2025/03/04
51: B01D

71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY
72: ARUL SIDHARTH TAMILARASAN, SANJITH PRANAV RAJENDRAN, SUDHARSHAN VENKADESKUMAR, DHINESH RAJA PAULRAJ, HEMAVATHI SUNDARAM

54: A METHOD FOR AIR PURE

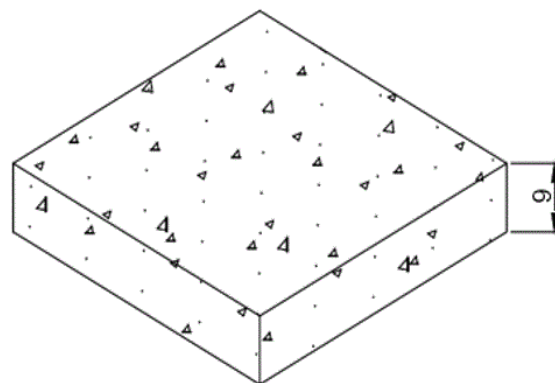
00: -
The present invention discloses a method for air pure is designed to purify contaminated air from industrial processes and incinerators, employing a series of purification stages to ensure thorough contaminant removal. At its core, the system

comprises an exhaust fan and an electromagnetic air pump powered by a dedicated power source to facilitate airflow circulation. The purification process begins with the entry of contaminated air through a chimney, directing it towards the exhaust fan, which initiates the purification journey by drawing the air into the system. Subsequent phases involve the strategic narrowing of air passages to enhance airflow velocity, pre-filtering of larger particles and volatile organic compounds using a PTFE membrane, and primary filtration through an advanced carbon bed. Additional stages include the use of an electromagnetic air pump to optimize air circulation, a reflux valve to prevent backflow, and various other components such as an aerator, a replaceable activated alumina sheet, and water injection for further purification enhancement. The system culminates in the discharge of purified air through an outlet, ready to contribute to improved air quality and a healthier environment.



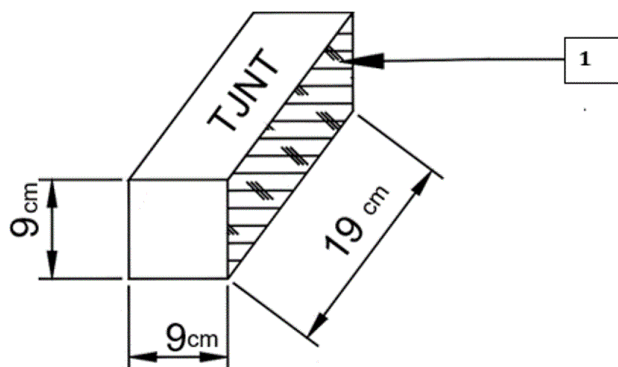
21: 2024/06523. 22: 2024/08/26. 43: 2025/03/04
 51: E04C
 71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY
 72: OORKALAN AYYANAR, CHITHRA SARANGAPANI, ARUN SUNDARAM, JAYAKARNAN RAVICHANDRAN, KIRUBANITHI PALRAJ, ABU BAKKAR SIDDIQUE RAHUMAN KHAN
54: COIR PITH CONCRETE PANEL
 00: -
 The present invention discloses a coir pith concrete panel for utilization of coir pith in concrete panel manufacturing offers a sustainable alternative to traditional materials. Coir pith, derived from coconut

husks, enhances concrete properties with its longer decomposition time and exceptional water-holding and retaining capacities, attributed to its composition of hemicelluloses, cellulose, and lignin. Coir pith fibers, containing numerous air voids, contribute to thermal insulation within structures. The manufacturing process involves soaking coconut shells, combing and drying fibers, and sieving to remove impurities. OPC Grade 53 cement serves as the binding agent, while angular fine aggregate (sand) and 20mm coarse aggregate improve concrete strength and bulk capacity. A concrete mix, comprising specified proportions of these materials, undergoes conventional mixing and curing methods to achieve desired strength properties.



21: 2024/06524. 22: 2024/08/26. 43: 2025/03/04
 51: E04C
 71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY
 72: JOSHWA JOSEPHRAJA, NARAEN TAMILSELVAN AYYA DURAI, TAMILSELVAN VIJAYARETHINAM, THIRUPAKARAN SARAVANAN KALPANA, OORKALAN AYYANAR
54: A METHOD FOR MANUFACTURING STUCCO BRICKS
 00: -
 The present invention discloses a method for manufacturing stucco brick (1) is a versatile and aesthetic approach that combines the durability and strength of bricks with the versatility of stucco. Bricks serve as the structural framework, providing stability and support, while stucco is applied as a finishing material to enhance the wall's appearance and texture. The manufacturing process of fly ash bricks involves a ratio of materials, with fly ash used for improving binding and reactions between chemicals, lime used for plasticity, water for mixing and

combining, sand used as filler material, and cement for binding materials. The bricks are then shaped using hydraulic or vibratory press, air dried for 2 days, and cured for 7-8 days. The final product is a sound, compact, and uniform brick for stucco design.

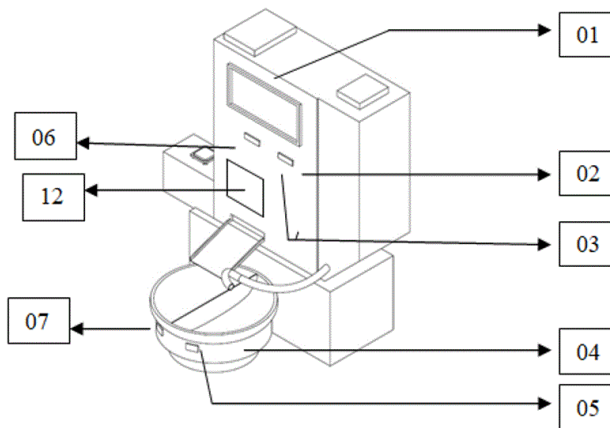


21: 2024/06525. 22: 2024/08/26. 43: 2025/03/04
 51: G05B
 71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY
 72: SANKARA SUBRAMANIAN AYYAPPAN THANGAM, SHYAM ABDUL AJEES, MOHAMED RAIHAN ABDUL MALIK, PRIYADHARSAN RENGANATHAN, RAJASEKARAN KARUPPAIAH

54: AN AUTOMATIC PET FEEDER

00: -
 The present invention discloses an automatic pet feeder to offer food for pets automatically. The automatic pet feeder comprising feeder, with a mechanism to dispense food into a feeding bowl upon receiving signals from software. An electric motor, connected to a propeller, controls the feeding mechanism and activates upon receiving signals from the software. A microcontroller serves as the central control unit, receiving signals from the user and controlling various components. Sensors, including timing sensors and rotary encoders, facilitate scheduling and dispensing of food based on user preferences. The feeding bowl features two divisions for food and water supply and is securely locked to prevent displacement. A weight sensor tracks food consumption, while a temperature sensor monitors the pet's well-being. A water reservoir supplies fresh water to the pet, controlled by the microcontroller (12) based on food consumption. The system enables real-time audio monitoring and communication with pets through a mobile application. Overall, the invention combines

effectiveness, robust design, and user well-being to offer reliable and user-friendly pet feeding solutions.



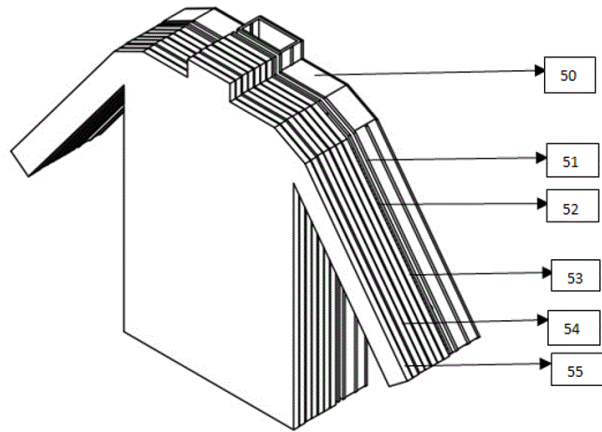
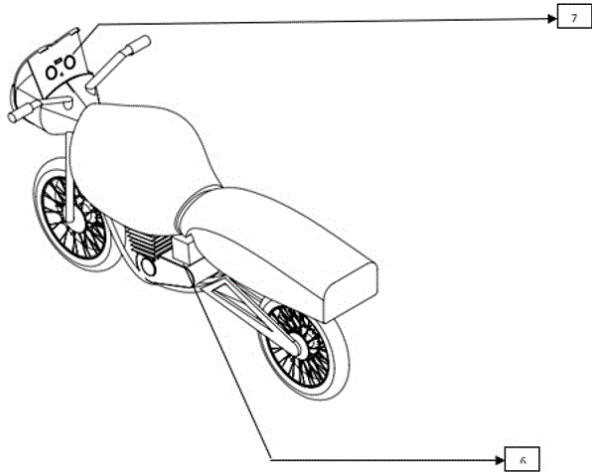
21: 2024/06526. 22: 2024/08/26. 43: 2025/03/04
 51: H02J

71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY
 72: SENTHILKUMAR THANGARAJAN SIVASANKARAN, ABDUL RAWOOF SYED MUSTAFA, SATHISHKUMAR SIVASUBRAMANIAN, DHARUN KUMAR SEKAR, KARTHIKEYAN BALUSAMY

54: POWER SOURCE GENERATION SYSTEM VIA WIND ENERGY

00: -
 The present invention discloses a Power source via wind energy for efficient power supply to the two-wheeler. The Power source via wind energy comprises of a turbine (1), a generator (3), a rectifier (4), a battery (6), a battery level indicator (7), a shaft (2) and a cable wire (5). The turbine (1) which is configured to convert the wind energy into mechanical energy which is operable by the wind source while operating the two wheelers. A shaft (2) which is configured between turbine blades and generator (3) to transmit the mechanical energy. A generator (3) which is configured to convert the mechanical energy into electrical energy in the form the AC supply. The cable wire (5)s which are induced to connect the generator (3) and the rectifier (4) which is configured to transmit the electrical energy from generator (3) to the rectifier (4). The rectifier (4) is configured to convert the electrical energy in the of AC supply into the electrical energy in the form of DC supply for the battery (6). The cable wire (5)s are connected to transmit the power source to the battery (6). A battery (6) which is

configured to store the power source and produce while power supply to motor is empty. A battery level indicator (7) is configured to indicate the level of power source available in the battery (6) by the indicator (7).



21: 2024/06527. 22: 2024/08/26. 43: 2025/03/04
51: A41D

71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY
72: ADHAVAN RAJASEKARAN, DHARAN SUNDARAPANDIYAN, DHARSHNI NALLASAMY, ABISHEKA PRIYAN THIRUVENGADAM RAJAN, SYEDAKBAR SYED YUSUFF

54: TEMPERATURE ADJUSTABLE BULLET PROOF JACKET

00: -
The present invention discloses a temperature-adjustable bulletproof jacket, highlighting its dual functionality and advanced design elements. The jacket integrates a lithium-ion sheet Battery (50) for powering both heating elements and reinforcing bulletproof material. Convenient USB charging ensures easy maintenance of power. Strategic placement of Heating coil (56)s and nano fluid technology optimize warmth distribution and thermal regulation. Safety is prioritized through dielectric barriers, Kevlar (54) reinforcement, and advanced materials like nanotubes and a 6-layer Carbon fiber (55) structure. Graphene-coated nylon thread enhances durability and connectivity, while a temperature display adds usability. This abstract encapsulates the jacket's comprehensive protection, comfort, and adaptability for diverse environments.

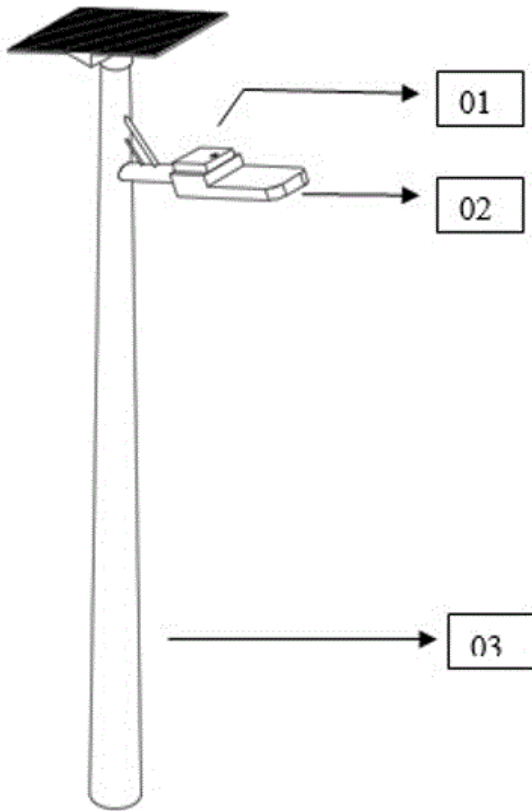
21: 2024/06528. 22: 2024/08/26. 43: 2025/03/04
51: G08G

71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

72: Sri Sharabesh Natarajan Thamarai Selvan, Prem Nivash Muthukumar, Tharunkumar Kumaravel krishnamoorthy, Arunkumar Ganapathy, Hema Ramachandran

54: AUTONOMOUS STREET LIGHT FAULT DETECTION SYSTEM

00: -
The present invention discloses a autonomous street light fault detection system configured to automatically detect faults in street lights. It incorporates various sensors, including a photoelectric sensor (04), current sensor (05), temperature sensor (06), and vibration sensor (07), to automatically detect faults in street lights. Positioned within the module (01) affixed to each street light, these sensors continually monitor environmental conditions and identify fluctuations indicative of faults such as bulb malfunctions or power supply irregularities. Data collected by the sensors is transmitted to a central microcontroller (08) for further analysis and processing. Additionally, the system integrates GPS navigation technology for precise location tracking of faulty street lights, streamlining maintenance procedures. Overall, this innovative system enhances the effectiveness and efficiency of street light fault detection and maintenance, contributing to safer and more reliable urban lighting infrastructure.



21: 2024/06529. 22: 2024/08/26. 43: 2025/03/04

51: E05B

71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

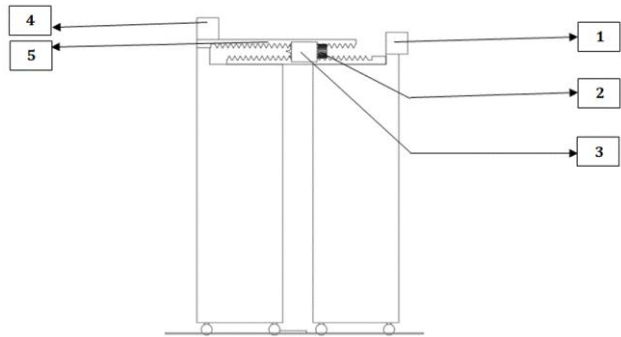
72: VIJAYALAKSHMI SUNDARESAN, MELVIN GEORGE KENNEDY, HARIHARAN ELANGESHWARAN, JOHN PAUL JOSEPH, MUKESH BALAJI PONMARIAPPAN

54: PROXIMITY LOCK SYSTEM

00: -

The present invention discloses a proximity lock for efficient security system. The proximity lock comprises two sliding doors which is activated by worm gear(2) mechanism which is coupled to a electric motor(3) and to the shaft(5) section, the Node MCU microcontroller(4) sends the control signal to the motor driver(1) which drives the motor either clockwise or anticlockwise depending on the situation. The decision on when to lock and unlock the door is made using the microcontroller if it detects the mobile of the owner within a specific range using the help of MAC address. This invention has two piezoelectric transducer(6), each placed outside and inside the house, which opens the door when someone is detected. This invention also

provides a extra layer of safety by also implementing a bugler alarm(7).



21: 2024/06530. 22: 2024/08/26. 43: 2025/03/04

51: B26F

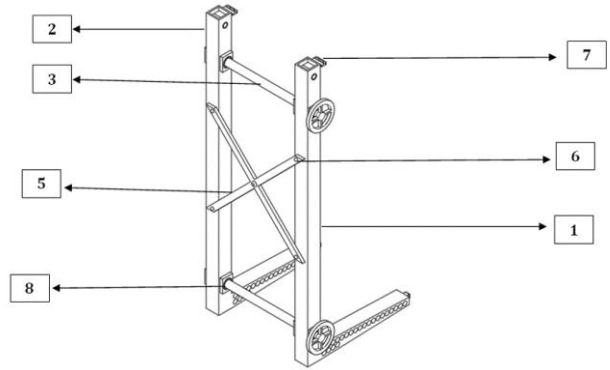
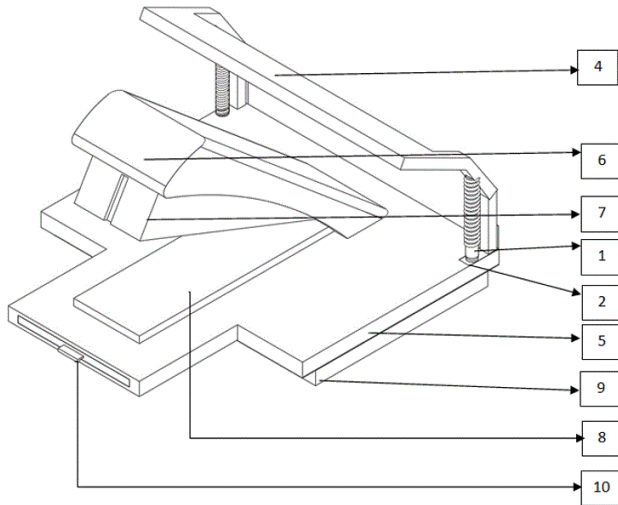
71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

72: GAYATHRI CHOKKALINGAM, ANITHA SUDHAKAR, LAKSHIYAA PREMNATH, HARINI DHANASEKARAN, BHAVANI RAJAGOPAL

54: STAPLER CUM PUNCH MACHINE

00: -

The present invention discloses a Stapler cum Punch Machine offering versatile machinery for a multifunctional office tool designed to streamline document management tasks. Combining the functionalities of a stapler and a hole puncher into a single device offers enhanced efficiency and convenience for users. A Stapler cum Punch Machine with integrated accessories and waste storage tray (9), primarily composed of high-strength plastic components for durability. It features a punching frame providing mechanical support to a spring for the punching mechanism, incorporating alignment mechanisms. The punching dies (1), operated by an external force, create clean holes through the paper aligned with the punching hole(2) on the common base(5). A spring mechanism facilitates punching, while a stapler handle(6) activates both the punching and stapling mechanisms. The stapler hammer(7), stapler anvil(8), waste storage tray(9), and accessory storage tray(10) further enhance the machine's functionality. Whether used for binding reports, organizing documents, or preparing presentations, this versatile machine enhances productivity and professionalism in any workplace setting.



21: 2024/06531. 22: 2024/08/26. 43: 2025/03/04
51: B62J

71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

72: Logeshwaran Palanisamy, Muruganantham Palanivel, Narmadha Natrajan, Dinesh Kumar Suyambudurai, Rahmath Nisha Shamsudeen

54: A LUGGAGE CARRIER FOR TWO WHEELERS

00: -

The present invention discloses a luggage carrier for two wheelers designed specifically for two-wheelers, comprises of a fixed L-frame (1) and a movable L-frame (2), both equipped with strategically placed holes for secure mounting onto the vehicle. The system incorporates screw rods (3) controlled by a driving wheel (4) to adjust the position of the movable L-frame (2), offering versatility in accommodating various load sizes. A reel-style belt (7) system and a locking clamp (9) ensure secure grip and stability for the loaded luggage. The carrier also comprises a plurality of links (5) arranged in a cross-shaped configuration at the rear of the L-frame, supported by revit (6) for added stability. Additionally, a ball bearing (8) facilitates smooth movement along the screw rod (3).

21: 2024/06532. 22: 2024/08/26. 43: 2025/03/04
51: A01G

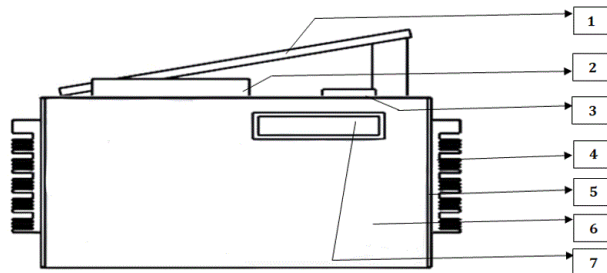
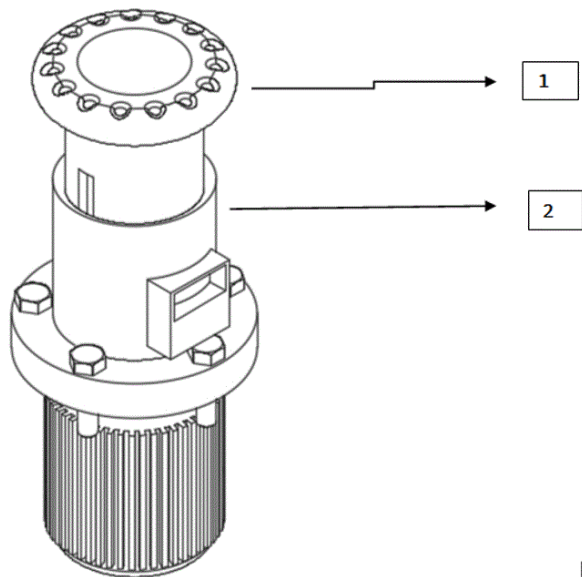
71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

72: YOKESWARAN RAMADOSS, KAMALI BALACHANDAR, SARANYA KARUNANITHI, MANOJKUMAR SURIYAKUMAR, ABDUL RAWOOF SYED MUSTAFA

54: A SPRINKLER IRRIGATION SYSTEM

00: -

The present invention discloses a sprinkler irrigation system tailored for efficiently covering large agricultural areas. The system employs stepper motor and spring mechanisms to enhance coverage uniformity and adaptability to diverse terrains. By integrating precise rotation and height adjustment capabilities, the system optimizes water distribution while minimizing resource wastage. This innovative design enables dynamic and customizable water distribution patterns, ensuring uniform coverage across the entire cultivated area. The proposed sprinkler irrigation system represents a significant advancement in large-scale agricultural irrigation, offering improved coverage, water efficiency, and sustainability through the innovative utilization of stepper motor and spring mechanisms. This innovative approach offers improved coverage, water efficiency, and sustainability, making it a promising solution for modern large-scale irrigation needs. This innovative design enables dynamic and customizable water distribution patterns, ensuring uniform coverage across the entire cultivated area.

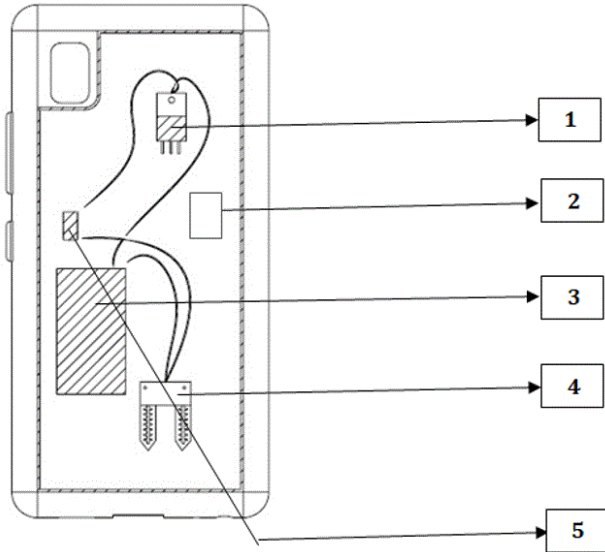


21: 2024/06533. 22: 2024/08/26. 43: 2025/03/04
 51: A23N
 71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY
 72: JAI GANESH RAJENDRAN, VISHNU PARAMANANTHAN, POOJA MURUGABOOPATHY, SANGLEESHWARI VELLAISAMY, AAKASH SENTHILKUMAR
54: SOLAR CELL POWERED THERMOELECTRIC REFRIGERATION TECHNOLOGY FOR FRUITS AND VEGETABLES TRANSPORTING VEHICLES
 00: -

The present invention discloses an effective cooling system for refrigerated vehicles using thermoelectric technology. The system includes a thermoelectric module with heat sinks connected on either side depending on the current direction, fans for cooling and dissipating heat, a thermal insulation layer in the storage section, and a thermostat to maintain optimum temperature. Solar panels power the system, with a voltage regulator ensuring constant power supply. A feedback mechanism controls temperature levels, while a display unit monitors storage temperature. Additional features include battery backup for nighttime operation and separate insulation for safety. The system's components and processes are detailed, emphasizing flexibility for modifications and combinations.

21: 2024/06534. 22: 2024/08/26. 43: 2025/03/04
 51: G05B
 71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY
 72: RAJKUMAR ARUMAIRAJ, VISVAS SURESH KUMAR, SRIRAM RAJAGOPAL, YOGESH PERUMAL, VIKASH GANDHI
54: NO WET HEAT AND MOISTURE ALERT MOBILE CASE

00: -
 The present invention discloses a No wet heat and moisture alert mobile case comprising moisture sensor(4) and temperature sensors(1), a controller unit Arduino(3) UNO, and a buzzer(5) unit. When water or moisture is detected on the mobile's surface, or when a sudden rise in temperature occurs, the sensors trigger the controller unit, which then activates the buzzer unit to notify the user. The entire system is powered by a detachable battery(2) source and encapsulation(6) in durable rubber material for protection. Additional features include a height-adjustable mechanism for universal adaptability to different phone sizes.



21: 2024/06535. 22: 2024/08/26. 43: 2025/03/04

51: G08B

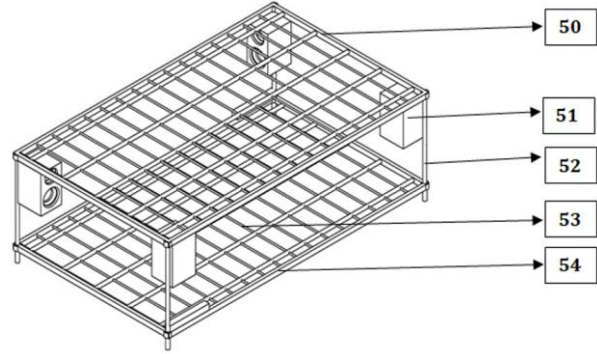
71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

72: JAI GANESH RAJENDRAN, DEEPAK SAMIDURAI, SOWMIYA SEKAR, SRREE MAALAVIKA PREMKUMAR, VIDYA SAKTHIVEL

54: AUTOMATIC CROP PROTECTION USING ALARM SYSTEM

00: -

The present invention discloses an automatic crop protection using an alarm system, featuring a speaker unit(51) integrated into a frame structure. The system utilizes sensors, such as piezoelectric sensor strip(53), to detect physical forces on supporting rods. A PIC microcontroller processes sensor signals, controlling motors attached to the speaker unit via a driver unit(56). The outer frame structure is coated to withstand environmental conditions, while supporting rods are made of durable materials. The system's adaptability is enhanced by the integration of a detachable hydraulic unit, making it suitable for large fields. The disclosed embodiments illustrate customizable and cost-effective solutions for crop protection against birds and animals



21: 2024/06536. 22: 2024/08/26. 43: 2025/03/04

51: E06B

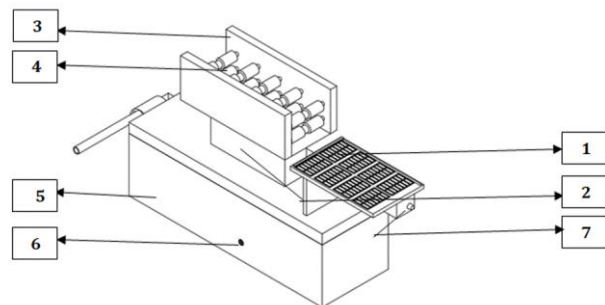
71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

72: RAMKUMAR THANGARAJ, MARCUS SAVIO RAVY, VASANTH ARUL KUMAR, JASMINE ISWARYA SEMEYON RAJ, ABITHA MARY SOOSAI RAJ

54: AUTOMATED WILDLIFE BOUNDARY KEEPER

00: -

The present invention introduces an automated wildlife boundary keeper designed to manage and protect wildlife areas. It incorporates a nylon rope system, roller(4) and clamp(3) units driven by a DC motor for linear motion, an outer housing(5) for component protection, and a camera(6) unit for motion detection using image processing. The system includes a Node MCU(9) controller unit, tranquilizer gun(7), solar panel(1) and battery pack(10) for power, water tank(2) for panel cleaning, GSM(8) unit for communication with authorities, and servo motor for gun aim control. The system triggers alerts to the forest department upon animal detection and tranquilization.



21: 2024/06538. 22: 2024/08/26. 43: 2025/03/04

51: A61K; C12N; G01N; A61P

71: BEIJING INSTITUTE OF HEART, LUNG AND BLOOD VESSEL DISEASES

72: DU Jie, WANG Yuan, LI Fengjuan, TAN Xin, WANG Xue

33: WO 31: PCT/CN2022/119001 32: 2022-09-18

33: CN 31: 202210267054.9 32: 2022-03-18

54: APTAMER FOR SPECIFICALLY RECOGNIZING SOLUBLE ST2 AND USE THEREOF

00: -

An aptamer for specifically recognizing soluble ST2 and the use thereof, belonging to the field of variation or genetic engineering. The technical problem to be solved is how to specifically detect sST2. In order to solve the technical problem, aptamers of single-stranded DNAs respectively having SEQ ID NO. 1-10 are provided. SELEX technology is used in combination with a high-throughput sequencing technology and bioinformatics analysis, screening rounds are reduced and candidate aptamers are obtained, and the affinity and specificity of said aptamers are further analyzed, so as to obtain an aptamer for specifically recognizing sST2. The aptamer has the characteristics of high specificity, high stability, convenience in synthesis, easiness in marking functional groups and the like, and can be used for detection of sST2 and the preparation of products such as biosensors, diagnosis and prognosis of cardiovascular diseases and the like.

21: 2024/06559. 22: 2024/08/27. 43: 2025/03/04

51: C22B

71: Bengbu University

72: Xiong Mingwen, Zhang Yao, Gao Hongrui,

Zhang Bo, Wang Ying, Ding Bo, Sun Bingfeng

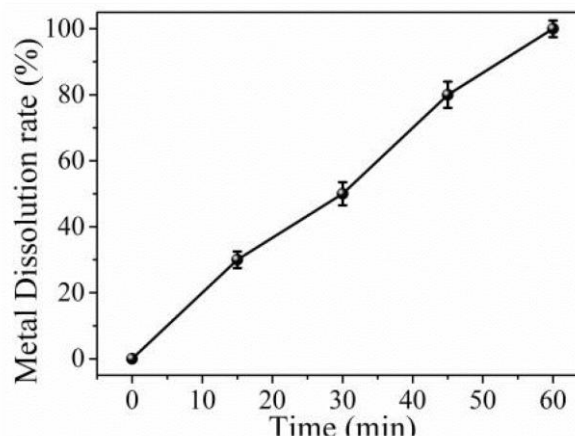
33: CN 31: 2024108932101 32: 2024-07-04

54: A METHOD FOR PHOTOCATALYTIC DISSOLUTION OF PRECIOUS METALS

00: -

This invention provides a method for the photocatalytic dissolution of precious metals, belonging to the field of precious metal recovery technology. The method involves adding a sample containing precious metals and a photocatalyst into a mixed solution containing organic nitrile and organic chlorine, and then irradiating it for a certain period of time to dissolve the metals. This invention presents a novel approach to enhancing the green dissolution and recovery of precious metals, with advantages including mild conditions, energy efficiency, environmental friendliness, low cost, and

ease of operation. The process requires only the introduction of photocatalytic technology, consumes minimal energy, and allows for the efficient recovery of precious metals under environmentally friendly and mild conditions.



21: 2024/06564. 22: 2024/08/27. 43: 2025/03/04

51: A61K

71: Inner Mongolia Academy of Agricultural and Animal Husbandry Sciences, Ulanqab Institute of Agricultural and Forestry Sciences

72: NIE, Lizhen, WANG, Ruigang, HAO, Yating, ZHANG, Zhicheng, WANG, Yufeng, CHANG, Yue, XIE, Rui, SUN, Fengcheng, MA, Yanhong, XI, Xianmei, ZHANG, Qionglin

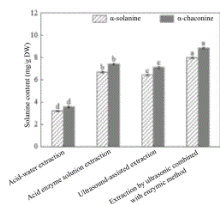
33: CN 31: 202410882670.4 32: 2024-07-02

54: METHOD FOR EXTRACTING SOLANINE FROM ORGANS OF POTATO

00: -

The present invention belongs to the technical field of compound extraction, and particularly relates to a method for extracting solanine from organs of a potato. According to the method of the present invention, the solanine in the organs of the potato is extracted by ultrasound assisted by biological digestion, and biological enzymatic degradation technology can decompose a plant cell wall in a very short time, promote outflow of natural active components inside, and greatly improve an extraction rate of target components. Ultrasonic technology makes use of vibratory cavitation, mechanical crushing, a thermal mechanism, stirring and other functions to make cavitation bubbles generated instantly by plant tissue in a solvent collapse, leading to cell rupture, and the solvent penetrate into plant cells advantageously, such that

intracellular components enter the solvent, and mutual penetration and dissolution are accelerated.



21: 2024/06565. 22: 2024/08/27. 43: 2025/03/04

51: C07C

71: Huzhou College

72: WANG, Kun, SHAO, Sihang, ZENG, Chuanfei, XU, Hui, ZHANG, Bing

54: SYNTHESIS METHOD FOR CHIRAL ALCOHOL WITH ORTHO-CHIRAL CENTER

00: -

The present invention belongs to the technical field of organic synthesis, in particular to a synthesis method for chiral alcohol with an ortho-chiral center. According to the present invention, polysubstituted Alpha, Beta-unsaturated ketone compounds are used as substrates, and under the action of a specific chiral ruthenium complex and an alkaline reagent (metal salt of alkali), a continuous asymmetric hydrogenation occurs in a hydrogen atmosphere, such that the chiral alcohol with an ortho-chiral center can be synthesized in one step by means of a dynamic kinetic resolution process, stereoselectivity of the reaction product is high, and diastereoselectivity greater than 99:1 can be reached. Moreover, the synthesis method for chiral alcohol with an ortho-chiral center provided by the present invention is simple and efficient, is suitable for industrial production, and has very important application prospects.

21: 2024/06566. 22: 2024/08/27. 43: 2025/03/04

51: A01G

71: SHANDONG ACADEMY OF AGRICULTURAL SCIENCES

72: DONG, Hezhong, NIE, Junjun, ZHANG, Yanjun, DAI, Jianlong, CUI, Zhengpeng, ZHANG, Dongmei, ZHAN, Lijie

54: SIMPLIFIED COTTON CULTIVATION METHOD COMPLETELY RELYING ON SETTING BOLLS ON VEGETATIVE BRANCHES

00: -

An objective of this disclosure is to provide a simplified cotton cultivation method completely

relying on setting bolls on vegetative branches. In the method completely relying on setting bolls on vegetative branches provided by the present disclosure, terminal removal is performed on a cotton plant to retain only vegetative branches when cotton plants reach the squaring stage, and brassinolide and paclobutrazole are sprayed at dosage of 30-45 g/ha-1 and 15-30 g/ha-1 when the vegetative branch has 4-5 and 6-7 leaves, respectively. Examples demonstrate that the seed cotton yield from this method increases by an average of 13.3 percent compared to traditional manual pruning and current no-pruning practices. This indicates that the method not only boosts cotton yield but also eliminates the need for pruning and topping. Thus, this approach offers a new, straight forward, and practical method for cotton cultivation.

21: 2024/06569. 22: 2024/08/27. 43: 2025/03/04

51: A01M

71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

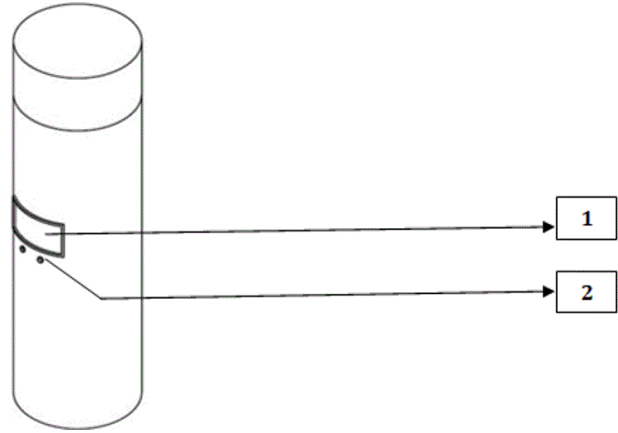
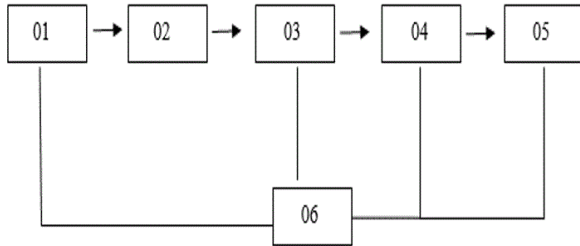
72: BHARATH SABARISH VILLAPAKKAM CHANDRA SEKARAN, SANTO ARUL RAJAA SURESH AROCKIA RAJ, MARIA AROCKIA RAJ MARIA ANTONY

54: AN AUTOMATIC CRABBING DEVICE

00: -

The present invention discloses an automatic crabbing device designed to revolutionize the crab-catching process. It comprises strategically positioned high-resolution cameras (01) to capture real-time underwater images, facilitating comprehensive coverage of the crabbing area. An accompanying handheld remote control (04) empowers users to remotely deploy, adjust, and retrieve crab traps based on detected crab activity. The image processing unit (02) analyzes captured images, utilizing advanced algorithms to identify crabs amidst underwater objects. A user interface (03) provides real-time images and updates on crab detection status, aiding informed decision-making. The communication system (05) seamlessly links all components, ensuring reliable transmission of signals for efficient crab catching. The Crab Catching Net (06), constructed with durable materials and remote control (04) mechanisms, securely captures crabs while preventing escape. The power supply, provided through a battery,

sustains continuous operation of all components, enhancing overall functionality. Together, these elements optimize the automated crab-catching process, enhancing effectiveness and efficiency in the crabbing industry.



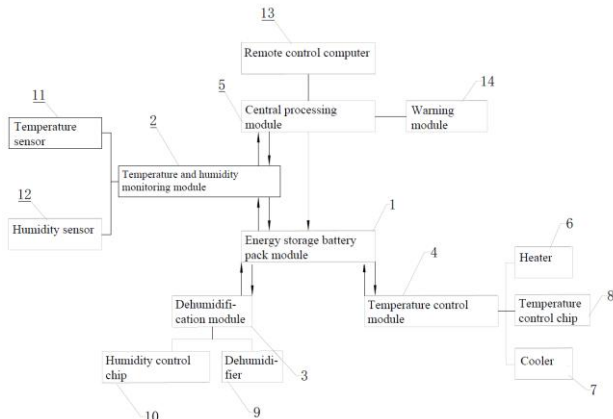
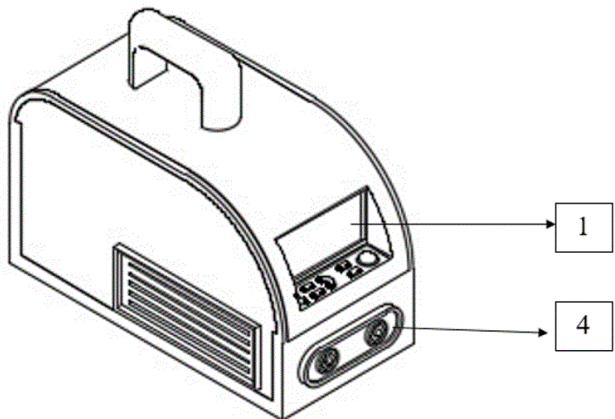
21: 2024/06570. 22: 2024/08/27. 43: 2025/03/04
 51: B65D
 71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY
 72: KARTHIKEYAN BALASUBRAMANI, MADAVAN RENGARAJ, SRREE MAALAVIKAA PREMKUMAR, KANITHRA SUNDARARAJAN, DHAARANI SREE RAVICHANDRAN
54: A FLAWLESS FLASKET

00: -
 The present invention discloses a Flawless flasket. The flawless flasket water bottle equipped with technology to monitor water temperature, pH level, and turbidity. Constructed from stainless steel, the bottle offers durability, recyclability, and avoids issues associated with plastics such as the presence of harmful compounds like BPA. Temperature sensors (3) integrated into the device facilitate accurate temperature measurement, while pH sensors (4) ensure water safety and quality by detecting acidity or alkalinity. The turbidity sensor (5) detects the amount of salt content in the water. LED lights indicate (2) pH levels, with blue denoting basic and red denoting acidic. A display (1) unit interfaced with a controller unit (6) communicates the drinkability of water based on sensor readings, while turbidity sensors measure water cloudiness to assess quality.

21: 2024/06571. 22: 2024/08/27. 43: 2025/03/04
 51: B23Q
 71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

72: YOKESWARAN RAMADOSS, PRASANNA MUKESH RAJ BALAKRISHNAN, KARUN PRABU RAMESH, HARISH MADHAVAN DHAMODHARAN, MOHAMED SHARUK HUMAYUN BASHA
54: WELD POWER GENERATOR

00: -
 The present invention discloses a weld power generator for a perfect power supply for welding based on materials. The weld power generator comprises of display board (1), a rectifier (2), a micro controller (3), power control unit (4) and welding cable which is connected to welding holder. A display board (1) which is configured for the manual input given to the micro controller (3), wherein is touch display to selecting material and wall thickness. A micro controller (3) which is configured to process and analysis the input, wherein a material selected and wall thickness of workpiece for the power supply to the weld machine, which is placed inside the power generator. A rectifier (2) is configured to convert the current to micro controller (3), which is operable by power supply of 3 phase from the main supply through the terminal point. A power control unit (4) which is configured to provide specific amount of power supply to the weld holder. A power control unit (4) is operable by the micro controller (3). A wire cables which is configured to connect the various components wherein a rectifier (2), a micro controller (3), a display board (1), and a power control unit (4) for the power transmission and operates the process.



21: 2024/06572. 22: 2024/08/27. 43: 2025/03/05
 51: H02J
 71: Northeast Electric Power University
 72: Chen Qicheng, Zhao Dan, He Nan, Gao Haitao, Wang Dong, Zhang Yingjin

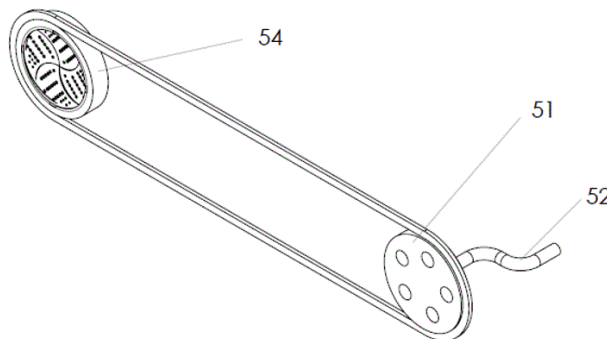
54: SYSTEM AND METHOD FOR MANAGING ENERGY STORAGE BATTERY

00: -
 The present application provides a system and method for managing an energy storage battery, falling with energy storage batteries. The present application includes an energy storage battery pack module, a temperature and humidity monitoring module, a dehumidification module, a temperature control module and a central processing module. The system utilizes cooperation of the temperature and humidity monitoring module, the dehumidification module and the temperature control module to realize accurate humidity monitoring and dehumidification operation, combining temperature control to improve safety and service life of an energy storage battery system. In the present application, through integrated humidity monitoring and control functions, excessive humidity inside and around the battery module is effectively avoided. Meanwhile, the system can accurately control the battery temperature, ensuring that the battery operates within an optimal working range, prolonging battery life and improving overall safety and performance of the system.

21: 2024/06573. 22: 2024/08/27. 43: 2025/03/04
 51: E03C
 71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY
 72: Ram kumar Rajagopal, Abdul Rahuman Azees, Guruprasad Muruganatham, Karthikeyan Mani, Charan Baskar

54: WASH BASIN WITH SMART STRAINER

00: -
 The presents invention various embodiments of a sink strainer system designed to filter solid particles from sink drains and prevent plumbing issues. The system includes components such as a driver disc (51), rotatable handle (52), strainer ring (54), and drain holes (55) strategically placed for efficient drainage. A belt drive (50) mechanism transfers rotational energy from a power source to the strainer ring (54), enabling the strainer (53) to open and close as needed. The embodiments described herein aim to improve sink hygiene and prevent clogging while providing flexibility for modifications and combinations of features to suit different applications.



21: 2024/06574. 22: 2024/08/27. 43: 2025/03/04
 51: H01H

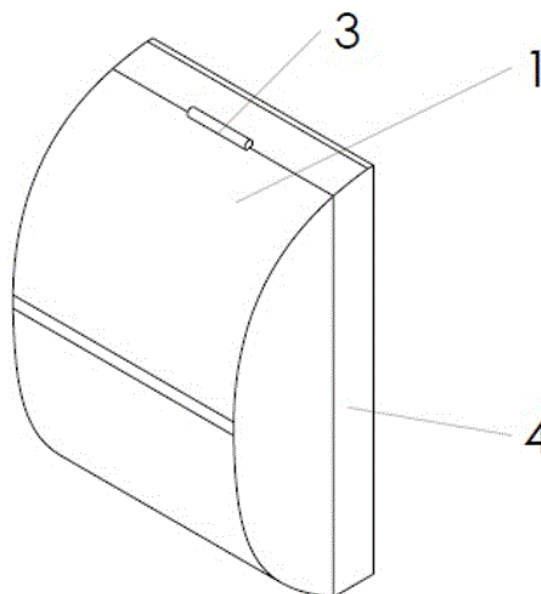
71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

72: BHARATH SABARISH VILLAPAKKAM CHANDRA SEKARAN, AKASH SENTHILKUMAR, NIDHISH RAGAV ATHMANATHAN, PARTHIBAN NADESAN, PRABHAKARAN MURUGESAN

54: FREE FALL PROTECTION AIR BAG

00: -

The inflatable airbag system presented here integrates state-of-the-art technology for the protection of electronic devices. It features a compact design with attachments housed within a container coated with insulating material. A freefall sensor, specifically an accelerometer detects free fall conditions and activates the system by supplying electricity to an anode and cathode. These components are situated adjacent to sodium aside, which, upon ignition, decomposes rapidly to release nitrogen gas. This gas inflates the airbag, which then envelops the device, providing a cushion against impacts. The present invention pertains to a novel safety attachment designed for electronic devices, aimed at safeguarding them against accidental falls or free-fall incidents. Drawing inspiration from airbag technology, this attachment functions akin to an airbag by deploying upon detecting a sudden drop or fall, effectively cushioning the impact and mitigating potential damage to the device. Notably, this innovative attachment is designed with user convenience in mind, featuring a detachable mechanism that allows it to be easily removed and carried separately when not in use. Through its intuitive design and advanced protective capabilities, this safety attachment offers a reliable solution for enhancing the durability and longevity of electronic devices while providing peace of mind to users in various environments and scenarios.



21: 2024/06575. 22: 2024/08/27. 43: 2025/03/04
51: A63B

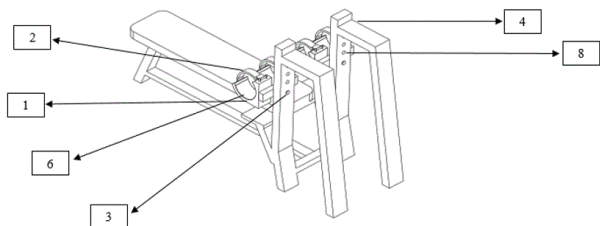
71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

72: SATHISH KUMAR GURUSAMY, GUNA VISHAL GRUNTHIYA, GURU DEV SARAVANAN, GOKUL NATH KALIYA MOORTHY, ABISHIK NISHANTH DURAI

54: AN APPARATUS FOR DUMBBELL STORAGE

00: -

The present invention discloses an apparatus for dumbbell storage, comprises a clamping mechanism, comprising a dumbbell holder (1) and enhancing clamp (2), ensuring firm and stable grip on the dumbbell to prevent slippage or instability. Accommodating diverse user needs, an adjustable mechanism allows seamless height adjustments facilitated by a series of holes (8) and a locking pin (3), guaranteeing stability and reliability under any condition. The apparatus is further bolstered by a robust supporting frame (4), constructed from welded rectangular channels, ensuring durability and strength to withstand the weight of the dumbbells. Additionally, user comfort is prioritized with the inclusion of a supportive seat (5), complemented by rubber padding (6) on the holder for enhanced grip and traction during workouts. Strategic leg (7) placement provides stable support, reinforcing the overall integrity of the apparatus, and ensuring a safe and enjoyable fitness experience for users.



21: 2024/06576. 22: 2024/08/27. 43: 2025/03/04
51: G06Q

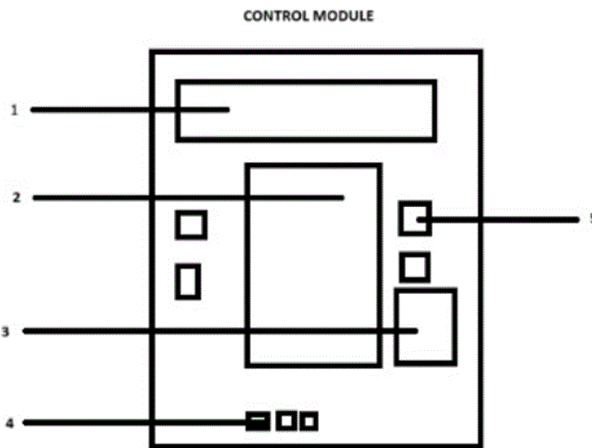
71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

72: Sriram Rajagopalan, Reetha Jeyarani Martin Amutha, Avudaiappan Tharmiah

54: A FORGE SMART SWITCH

00: -

The present invention discloses a Forge Smart Switch that represents a significant advancement in occupational safety within mining operations, particularly at the Crusher site, by minimizing the necessity for direct human intervention and consequently reducing the health risks linked with prolonged exposure to hazardous environments. This innovative switch system integrates cutting-edge smart technology, offering a seamless replacement for manual intervention in crucial operational processes. Through its intelligent design and functionality, the Forge Smart Switch streamlines operations, enhances efficiency, and most importantly, prioritizes the health and safety of on-site personnel. By automating tasks that traditionally required human presence in potentially risky areas, such as the Crusher mining site, this solution significantly decreases the likelihood of accidents, injuries, and long-term health complications stemming from prolonged exposure to hazardous conditions. With its implementation, the Forge Smart Switch not only revolutionizes operational practices but also underscores a commitment to fostering a safer and more sustainable work environment within the mining industry.



21: 2024/06577. 22: 2024/08/27. 43: 2025/03/05
51: H02J

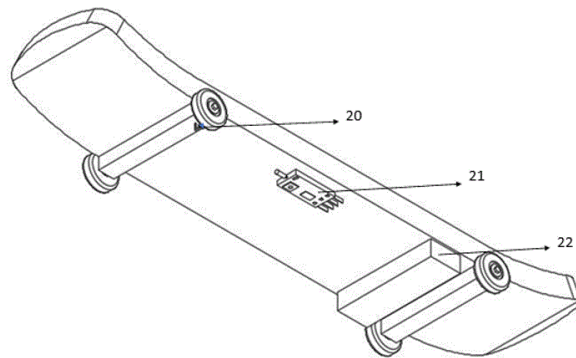
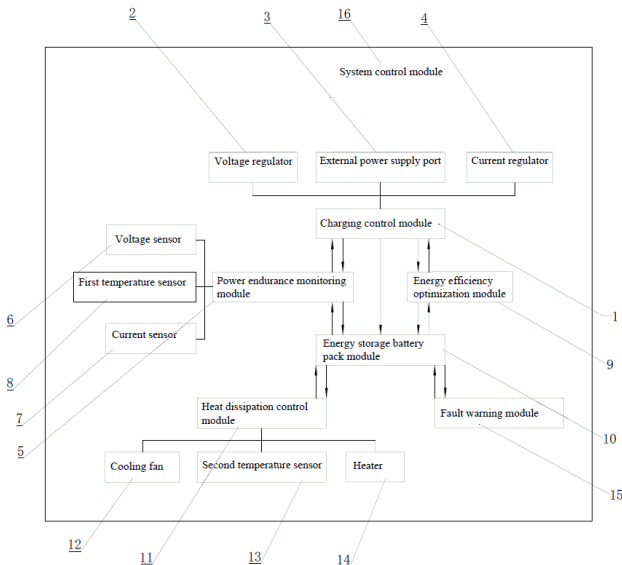
71: Northeast Electric Power University
72: Chen Qicheng, Zhao Dan, He Nan, Gao Haitao, Wang Dong, Zhang Yingjin

54: SYSTEM AND METHOD FOR MONITORING AND MANAGING POWER ENDURANCE OF AN ENERGY STORAGE BATTERY PACK

00: -

The present application provides a system and method for monitoring and managing power endurance of an energy storage battery pack, falling within the technical field of power endurance monitoring. The system for monitoring and managing power endurance of an energy storage battery pack includes a charging control module, a power endurance monitoring module, the energy efficiency optimization module, an energy storage battery pack module, a heat dissipation control module, a fault warning module, and a system control module. The system includes: the charging control module containing a voltage regulator, an external power supply port and a current regulator, configured to control a charging process of the energy storage battery pack module. In the present application, by the cooperation using of the arranged heat dissipation control module and power endurance monitoring module, the real-time monitoring of a battery temperature is easily completed and the adjustment of the battery temperature according to changes of an environment temperature is realized, effectively reducing the influence of temperature changes on the performance and life of a battery during charging, and improving the practicability of the device. Meanwhile, the energy efficiency and the reliability of the battery are further improved through

the energy efficiency optimization module and the fault warning module.



21: 2024/06579. 22: 2024/08/27. 43: 2025/03/04
51: A61H

71: Xinyu University
72: Li Qi, Li Yuhong

54: REHABILITATION MACHINE FOR LUMBAR VERTEBRA NURSING

00: -

The present invention provides a rehabilitation machine for lumbar vertebra nursing, falling within the technical field of medical devices. An electric traction mechanism includes fixing stations and a first motor, and the fixing stations and the first motor are fixedly connected to a bottom of an inner wall of a bed body; a moving groove is fixedly connected between tops of the two fixing stations, and an inner wall of the moving groove is slidably connected to a door-type moving bar; an output end of the first motor is fixedly connected to a transmission gear, the transmission gear is meshed with the door-type moving bar, and two connecting rods are fixedly connected to sides of the door-type moving bar. In the present application, the door-type moving bar is driven to move in the moving groove via the transmission gear, and the whole fixing plate and all structures arranged thereon to move forward via universal wheel assemblies, achieving the effects of stretching a lumbar vertebra by automatic lumbar vertebra traction, relaxing muscles, relieving muscles spasm and tension, and omitting manual operations.

21: 2024/06578. 22: 2024/08/27. 43: 2025/03/04
51: A63C

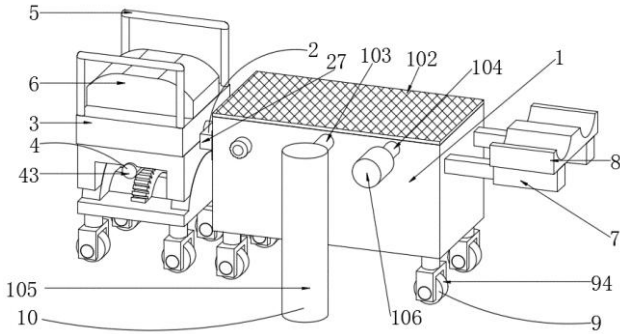
71: K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

72: Vinodha Ravi, Avudaiappan Tharmiah, Murugavalli Sangilimuthu

54: SMART SKATING BOARD

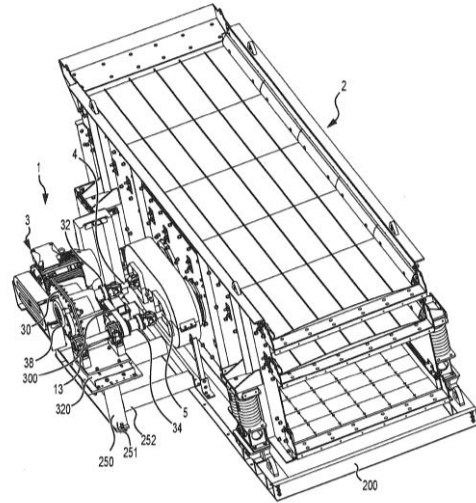
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Skate Safe is a revolutionary system revolutionizing skateboard safety and performance. Integrated directly into the skateboard, it features sensors monitoring speed and tilt angle, triggering alerts via a connected smartwatch when thresholds are exceeded. Unlike traditional safety gear, skate Safe offers dynamic, real-time feedback, empowering riders to adjust speed and position promptly, potentially preventing accidents. Utilizing advanced accelerometers, the speed sensor monitors velocity, while the tilt sensor detects balance issues or risky maneuvers. Designed for minimal interference, its lightweight, compact build ensures agility and comfort. Seamlessly integrated with smartwatch technology, skate safe provides timely alerts, enhancing safety and user experience. In summary, skate Safe represents a significant advancement in skateboard safety, equipping riders with sophisticated tools to prevent accidents and enjoy the sport safely.



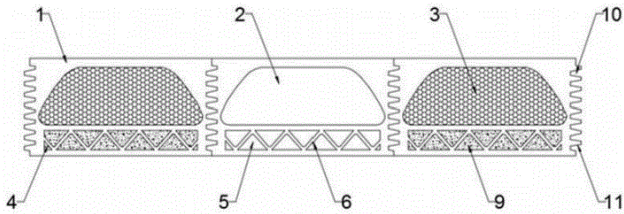
21: 2024/06584. 22: 2024/08/27. 43: 2025/03/04
 51: B06B; B65G; H02K
 71: CONN-WELD INDUSTRIES, LLC
 72: HARMAN, Gregory K.
 33: US 31: 63/318,813 32: 2022-03-11
54: ELLIPTICAL DRIVE
 00: -

In some examples, an elliptical drive adjusts a phase angle of unbalanced shafts or weights of a vibrating screen. The elliptical drive may include a yoke assembly including four plates that allows relative rotation of two shafts that in turn adjust the phase angle. One of the two shafts may have a pulley drive driven by a motor. The elliptical drive may include two gears intermeshed with each other and having respective hubs with helical splines that mate with corresponding helical splines of the two shafts. Rotating an actuator rod may cause the two gears to move in an axial direction of the two shafts thereby rotating the two shafts relative to one another which in turn causes a phase angle adjustment of the unbalanced weights or shafts of the vibration mechanism of the vibrating screen.



21: 2024/06607. 22: 2024/08/28. 43: 2025/03/04
 51: E04C
 71: Xiuling CAO, Muci YUE
 72: Xiuling CAO, Muci YUE, Weijie CAO, Liang YU, Tao LAN, Liming ZHANG, Xuchun WANG, Binbin WANG, Qiangqiang SUN, Xuejia LIU, Xiaohan HU, Qingqian MENG, Zihan FENG, Xinzhi LIU, Shuo HAN
54: GREEN AND ENERGY-SAVING PREFABRICATED BUILDING WALL COMPONENT
 00: -

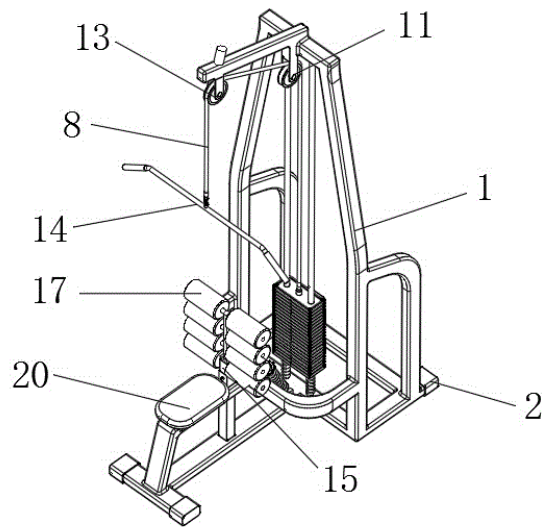
The present invention discloses a green and energy-saving prefabricated building wall component, which belongs to the field of building materials technology, it addresses the issues of cumbersome assembly and disassembly of existing prefabricated building components, as well as poor insulation and energy-saving performance, the technical points include an insulation wall with an internal cavity and prefabricated inclined strut, the inclined strut and the insulation wall form several grouting holes, both sides of the insulation wall are equipped with several assembly teeth and assembly slots located between the teeth, the cavity is filled with an insulation foam layer, and the grouting holes are filled with concrete. it is easy to assemble and install, reduces the weight of the insulation wall while improving structural strength, facilitates the filling of energy-saving insulation materials, blocks heat transfer between the interior and exterior of the building, and achieves energy-saving effects.



21: 2024/06608. 22: 2024/08/28. 43: 2025/03/04
 51: G06Q
 71: Shandong University of Finance and Economics
 72: Fuling Han

54: SMART ASSISTANT TRAINING DEVICE FOR PHYSICAL EDUCATION

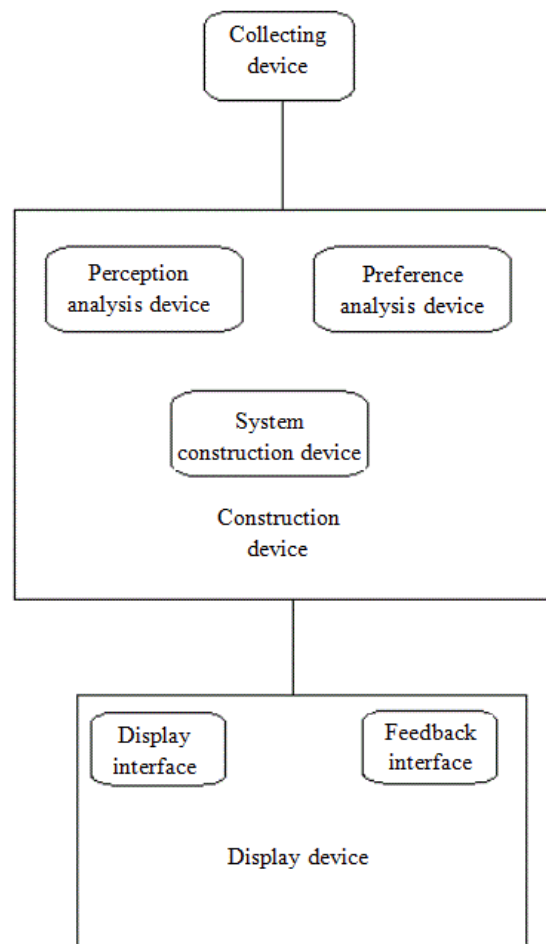
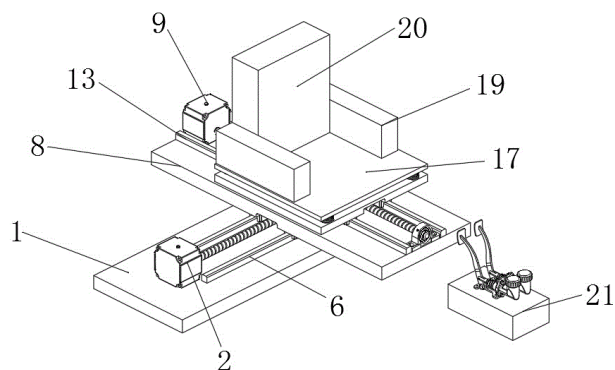
00: -
 The invention belongs to the technical field of training devices, and particularly relates to a smart assistant training device for physical education, including a frame and rubber sleeves wrapping edges of the frame. The frame is provided with two positioning columns, the positioning columns are each sleeved with a spring, the positioning columns are slidably connected with weighting blocks, all the weighting blocks are slidably connected to a link, the link is fixedly connected and mounted to a sleeve through bolts, a wire rope is fixedly connected to the sleeve through bolts, the frame is fixedly provided with a fixed pulley, a part of a top of the frame is fixedly provided with a cylinder, a fixed end of the cylinder is located at the frame, a movable end of the cylinder is provided with a movable pulley. The invention provides highly individualized and accurate training experience. By means of an adjustable weight system, a smart height adjustment and strength transfer system, and a smart sitting posture monitoring and feedback system, the invention meets different trainers' needs for adjustment in strength, height and sitting posture in different stages, thereby realizing accurate training.



21: 2024/06609. 22: 2024/08/28. 43: 2025/03/04
 51: G06Q
 71: Shandong University of Finance and Economics
 72: Fuling Han

54: LIGAMENT TRAINING DEVICE FOR PHYSICAL EDUCATION

00: -
 The invention belongs to the technical field of ergonomics, and particularly relates to a ligament training device for physical education, including a fixing device and an exercise device. The fixing device includes a base, the base is fixedly provided with a first servomotor, an output of the first servomotor is fixedly connected with a first screw, the first screw is threadedly connected with a first threaded block, side edges on the base are fixedly connected with first guide rails, first sliders are clamped and slidably connected to outputs of the first guide rails, one end of each first slider and one end of the first threaded block are fixedly provided with a mounting plate, and the mounting plate is fixedly provided with a second servomotor. By means of the adjustable fixing device and exercise device, the ligament training device of the invention can flexibly adjust the position and training intensity according to the height, physical condition, strength level and other factors of different people to realize highly individualized ligament training, thereby meeting unique needs of each person and improving specificity and effectiveness of training.



21: 2024/06610. 22: 2024/08/28. 43: 2025/03/10
51: G06Q

71: Shandong Jianzhu University
72: WANG Yue, LYU Hangsheng, SONG Feng, WEI Yuanyuan, WU Yanan, WANG Ziyi, LIU Xinyan, REN Zhen, WANG Jiening, XU Yabing, CAO Qingqing, ZHAO Yachen

54: GRAND CANAL CULTURAL HERITAGE LANDSCAPE PERCEPTION EVALUATION DEVICE

00: -
The invention discloses a Grand Canal cultural heritage landscape perception evaluation device, which comprises a collecting device, a construction device, an evaluation device and a display device; the collecting device is used for collecting tourist evaluation data of the Grand Canal cultural heritage landscape; the construction device is used for constructing a perception evaluation system based on tourist evaluation data; the evaluation device is used for comprehensively evaluating the Grand Canal cultural heritage landscape based on the perception evaluation system to obtain an evaluation result; and the display device is used to display the evaluation results. The evaluation device provided by the invention can comprehensively evaluate the Grand Canal cultural heritage landscape from three dimensions of natural landscape value, historical and cultural value and socio-economic value, so as to ensure the comprehensiveness and objectivity of the evaluation result; meanwhile, the device not only analyzes the text comments of tourists, but also comprehensively considers multimedia data such as scenic spot photos, so that the evaluation result is richer and more stereoscopic. The evaluation result of the invention can provide scientific basis for the protection, management and development of cultural heritage.

21: 2024/06611. 22: 2024/08/28. 43: 2025/03/10
51: A23K

71: SICHUAN RUNGE BIOTECHNOLOGY CO., LTD

72: QIN Zhenxuan, LIU Chao, LU Lixuan
33: CN 31: CN202311770620.9 32: 2023-12-21

54: FUNCTIONAL PROTEIN FEED ADDITIVE BASED ON COMBINED YEAST FERMENTATION OF BAIJIU DISTILLER'S GRAIN, PREPARATION METHOD AND APPLICATION THEREOF

00: -
The invention discloses a functional protein feed additive based on combined yeast fermentation of Baijiu distiller's grain and a preparation method and application thereof, belonging to the technical field of fermentation engineering. The preparation method of the functional protein feed additive includes the following steps: softening the Baijiu distiller's grains with ammonia water, adding auxiliary materials to prepare mixed materials, and inoculating yeast seed liquid for fermentation to obtain the functional protein feed additive; the auxiliary material consists of bran,

corn and *Broussonetia papyrifera* leaves according to the mass ratio of (5-10): (1-3): (3-6); the yeast seed liquid is composed of *Saccharomyces cerevisiae* boulardii and *Phaffia rhodozyma* after fermentation, and then glucoamylase and cellulase are added. The functional protein feed additive prepared by the invention is applied to animal feed, which can obviously improve the utilization rate of feed and promote the growth of animals, and has good economic and social benefits.

21: 2024/06612. 22: 2024/08/28. 43: 2025/03/10
51: C04B

71: University of Science and Technology Beijing, Solid Waste and Chemicals Management Center of the Ministry of Ecology and Environment of China
72: LI Yunyun, DU Huihui, HUO Huimin, QI Zihan, CHEN Xinying, MU Xinli, YANG Guodong, NI Wen
54: MAGNESIUM OXYSULFATE CEMENT HIGH-STRENGTH FOAM BOARD AND PREPARATION METHOD THEREOF

00: -

The invention relates to a magnesium oxysulfide cement high-strength foam board and a preparation method thereof, belonging to the field of building materials. The raw materials include the following components: 40-100 parts by mass of lightly burned magnesia powder, 15-50 parts by mass of magnesium sulfate heptahydrate, 15-40 parts by mass of water, 0.1-3 parts by mass of additive, 2-9 parts by mass of silica fume and 5-30 parts by mass of foam. In the invention, magnesium sulfate heptahydrate is used to replace industrial magnesium sulfate, so that the treatment problem of flue gas desulfurization waste liquid is solved, the utilization of secondary resources is realized, environmental pollution and resource waste are avoided, and the production cost of magnesium oxysulfate cement foam board is reduced. Adding additives to foam board changed the types of hydration products, greatly reduced the porosity of cement and made the structure more compact. Macroscopically, it is characterized by high compressive strength, low thermal conductivity, excellent fire resistance, light weight, high strength, high temperature resistance and good water resistance, which solves the contradiction between bulk density and strength of magnesium oxysulfate

cement, broadens the application scope of magnesium oxysulfate cement and has broad application prospects in building materials and engineering.

21: 2024/06613. 22: 2024/08/28. 43: 2025/03/04
51: A01K

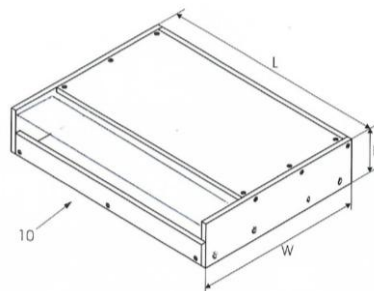
71: DMM GROUP (PTY) LTD

72: PERUCH, Duncan

54: ANIMAL BED

00: -

An animal bed which, in an initial form, is of parallelepiped shape and comprises a base, a frontispiece fixed to the base, left and right sides which are detachably fixed to the base and which are disposable, a rear side which is detachably fixed to the base and which is disposable, wherein the structure has a length and a width determined by the base and a height H determined by the left and right sides and the rear side and encloses a space in which are located left and right covers, a rear cover and a mattress.



21: 2024/06614. 22: 2024/08/28. 43: 2025/03/10
51: F42D

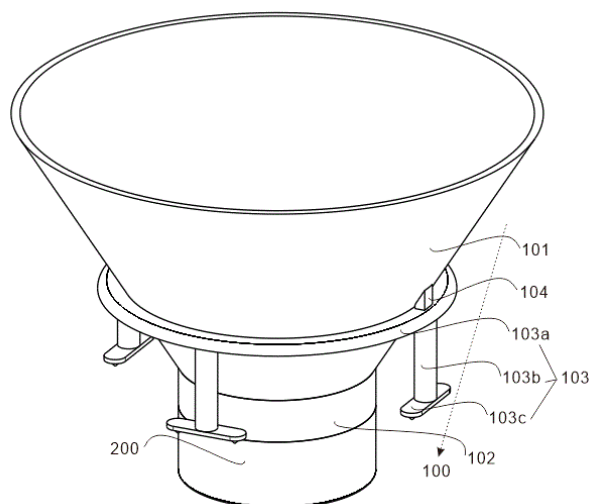
71: Anhui Jiangnan Blasting Engineering Co., Ltd
72: GAO Pengfei, FAN Baolong, GE Lifang, WANG Gang, MA Guoqiang, YANG Ling, LUO Jiangtao, YAN Bo, ZHOU Xing

54: BLASTING HOLE CHARGING DEVICE FOR MINE ROCK BLASTING

00: -

The invention discloses a blasting hole charging device for mine rock blasting, which includes a charging component, a funnel, a drug delivery tube, a supporting part and a vibration generator, where the drug delivery tube is fixed at the bottom of the funnel, the supporting part is fixed at the outer side of the funnel, and the vibration generators are fixed at both sides of the top of the supporting part; and

the fastening component is arranged in the drug delivery tube and includes a flexible tube, a supporting frame, a fastener, an adjusting piece and a protective piece, where the flexible tube is fixed at the bottom end of the drug delivery tube, and the supporting frame is fixed at the inner wall of the drug delivery tube. By improve that fastening component, the device can be adapted to blasting holes with different apertures, and meanwhile, the stability is high in the process of drug filling, so as to prevent the situation that the drug powder used for blasting is spilled due to dumping.



21: 2024/06617. 22: 2024/08/28. 43: 2025/01/10
51: A61K
71: Novo Nordisk A/S
72: NORRMAN, Mathias, HOSTRUP, Susanne, STEENSGAARD, Dorte Bjerre, STRAUSS, Holger Martin, HANSEN, Rosa Rebecca Erritzøe, HAVELUND, Svend, SCHLEIN, Morten, MARINO, Jesper Søndergaard
33: EP(DK) 31: 16204688.2 32: 2016-12-16
54: INSULIN CONTAINING PHARMACEUTICAL COMPOSITIONS

00: -
The present invention is in the field of pharmaceutical compositions for the treatment of medical conditions relating to diabetes. More specifically the invention provides pharmaceutical compositions comprising a long-acting acylated derivative of a human insulin analogue, and to the medical use of such compositions for basal insulin administration therapy.

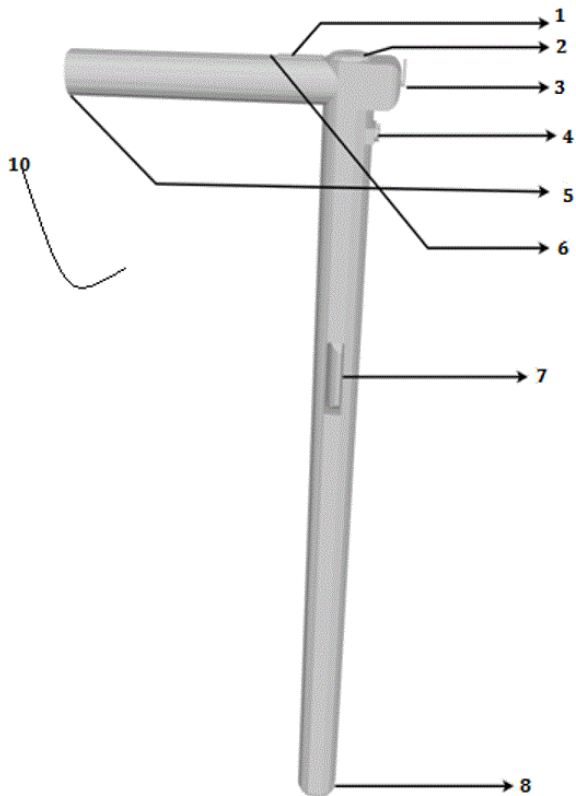
21: 2024/06618. 22: 2024/08/28. 43: 2025/01/21
51: A61K
71: Novo Nordisk A/S
72: NORRMAN, Mathias, HOSTRUP, Susanne, STEENSGAARD, Dorte Bjerre, STRAUSS, Holger Martin, HANSEN, Rosa Rebecca Erritzøe, HAVELUND, Svend, SCHLEIN, Morten, MARINO, Jesper Søndergaard
33: EP(DK) 31: 16204688.2 32: 2016-12-16
54: INSULIN CONTAINING PHARMACEUTICAL COMPOSITIONS

00: -
The present invention is in the field of pharmaceutical compositions for the treatment of medical conditions relating to diabetes. More specifically the invention provides pharmaceutical compositions comprising a long-acting acylated derivative of a human insulin analogue, and to the medical use of such compositions for basal insulin administration therapy.

21: 2024/06619. 22: 2024/08/28. 43: 2025/03/04
51: A45B
71: M.KUMARASAMY COLLEGE OF ENGINEERING
72: Jeyakumar Pitchaikani, Jegadeesan Subramani, Karthick Prasath Murugan, Jaswant Venkatachalam, Arunass Nithya Vembudurai, Arunkumar Ranganathan
54: A SAFETY SYSTEM FOR AN ASSISTIVE BLIND STICK

00: -
The present invention discloses a safety system (10) for an assistive blind stick to prevent the usage of unauthorized persons. The safety system comprises a battery unit, detection unit, rain sensor and a biometric sensor. The battery is attached at the battery holder (5) and it supplies the energy to the entire system. The obstacle identification module, utilizing ultrasonic and sensor technology, effectively identifies and communicates obstacles, empowering users to navigate with greater ease and safety. The ultra sonic sensor (4) is used to detect the obstacle for the user's path. The inclusion of GPS (3) and IoT modules executes the real-time location tracking and also ensures rapid assistance in case of emergencies. The inverted L-shape structure in assistive sticks for the blind provides ergonomic support and stability while ensuring optimal ground contact for enhanced navigation and mobility. The rain sensor (8) is configured to detect the moisture of

the path and it sends the data's to the microcontroller as well as to the user by the device. The biometric sensor (2) configured to provide the additional layer of protection, ensuring that only authorized individuals can access and utilize the stick's functionalities, thereby safeguarding sensitive information and enhancing user privacy. The present invention (10) will increase the safety of the blind people by protecting their sticks in an effective manner.



21: 2024/06620. 22: 2024/08/28. 43: 2025/03/04
51: F24S

71: M.KUMARASAMY COLLEGE OF ENGINEERING

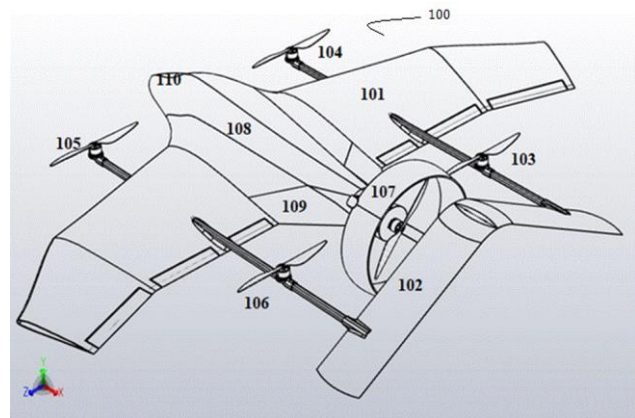
72: Dr. Meivel Sadasivam, Dr. Sakthi Periasamy, Nishanthi Senthilkumar, Nethradevi Ganesan, Samyuktha Selvakumar, Nishalini Jemima Velganni

54: AN AUTOMATED SOLAR DRONE FOR SURVEILLANCE AND SECURITY

00: -

The present invention discloses an automated solar drone (100) for surveillance and security applications without the need of skilled operators. The solar drone comprises a foldable solar wing(s), solar tail, air engine, converter, IoT controller (108) and a

surveillance sub system. The foldable solar wing (101) is configured to fly/capture solar energy for extending the flying time by converting the sunlight into electricity. The solar tail (102) located at the rear side of the drone which is configured to increase the solar energy absorption by its surface area. The plurality of DC motor (103-106) with rotary wings configured to enable the movement of the drone in upward direction by means of solar energy. The air compressor/engine (107) is configured to pressurize/create the turbine rotation at high speed for enabling the movement in forward direction by means of propulsion force. The converter (112) is configured to optimize the electrical operating point for maximizing solar panel power output. The IoT controller (108) is configured to act as the central management system of solar drone for enabling real time monitoring. The surveillance sub system (110) is monitoring one or more surveillance/security/safety parameters by means of LiDAR and NIR technology. The present invention will reduce the need of operators and power losses in an effective manner.



21: 2024/06621. 22: 2024/08/28. 43: 2025/03/05
51: G08G

71: M.KUMARASAMY COLLEGE OF ENGINEERING

72: Jeyakumar Pitchaikani, Jegadeesan Subramani, Janakan Dhanasekaran, Kaviyarasen Balasubramaniam Chitra, Sanjeevadarsh Balamoorthy Rajeswari, Balaji Nagaraj

54: A SYSTEM FOR VEHICLE COLLISION DETECTION USING COMPUTER BASED INTELLIGENCE

00: -

The present invention discloses a system (20) for vehicle collision detection using computer based

intelligence to rescue the people by automatically identifying the accidents and its location. The system (20) comprises plurality of sensors, GPS unit, IoT module and a communication module. The vibration sensor (2) is operatively positioned inside the vehicle by means of power source to detect collision impacts of a vehicle. The GPS unit is configured to determine the precise location of the vehicle for detecting the location of the accidents. The gas sensor (3) configured to continuously monitor for the presence of hazardous gases within the vehicle inside area. The temperature sensor (4) is configured to continuously monitor the temperature increase indicatives of potential fire hazards. The IoT module (10) is configured to seamlessly transmit critical alert messages to one or more pre-programmed receivers. The communication module (9) is configured to transmit emergency alert messages containing vehicle location data and sensor data for indication of detected collisions. The communication module (9) is further adapted to transmit gas and temperature sensor data along with collision data in the emergency alert messages. The present invention (20) will help to rescue the people for saving their lives in an effective manner.

21: 2024/06622. 22: 2024/08/28. 43: 2025/03/05
51: H02P

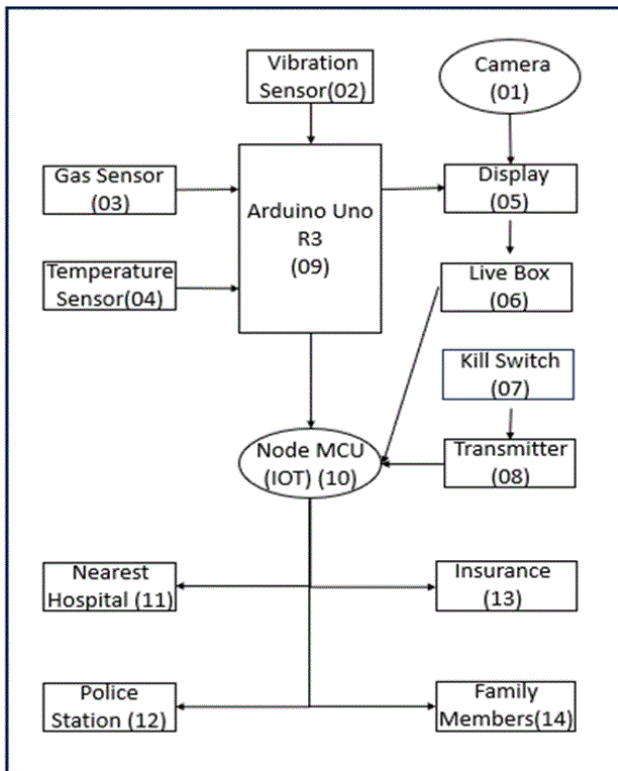
71: M.KUMARASAMY COLLEGE OF ENGINEERING

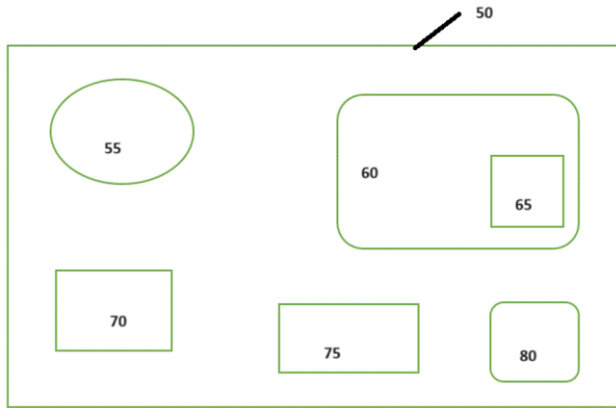
72: RAMAKRISHNAN PERUMAL, KAVINESH CHIDHAMBARAM, KAVINRAJ SUBRAMANI, MANOJ KUMAR KUPPUSAMY, MUTHUMANI PERUMALSAMY

54: AN AUTOMATIC CUT OFF SYSTEM FOR AN ELECTRIC MOTOR PROTECTION

00: -

The present invention discloses an automatic cut off system for the electric motors protection to increase the life by eliminating the accidents. The automatic cut off system comprises a power source for supplying the necessary energy to the cut off system. The raindrop sensor is operable by the power source which is configured to detect the presence/absence of the water by means of change of resistance. The pump is operable by the power source which is configured to pump the water when the detection of water in the raindrop sensor and turn off the pumping process when the detection of absence of water in the bore well. The Arduino is configured to control the operation of the pump by means of the information received from the raindrop sensor. The raindrop sensor sends the presence/absence of the water information from the bore well to said Arduino. The evaluation module is configured to analyse the weather condition, calculative measures and remote monitoring, while before and after the pumping of water for reducing the wastage of water/energy/electricity. The fault detection module is configured to inspect the sensor and wire connections frequently for providing the continuous operation at any time in the field. The present invention will reduce the accidents/damages of electric motors in an effective manner.

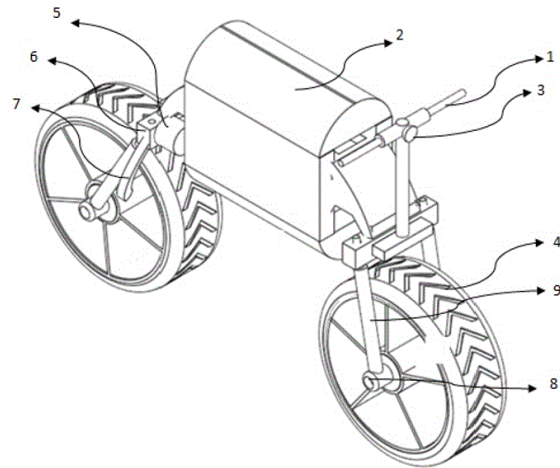




21: 2024/06623. 22: 2024/08/28. 43: 2025/03/05
 51: B62H
 71: M.KUMARASAMY COLLEGE OF ENGINEERING
 72: Maniraj Perumal, Durai Murugan Alagarsamy, Kavın Palanisamy, Kesavan Kannan, Shalini Senthil Kumar, Gokul Rajendran
54: AN ELECTRIC BIKE THEFT PROTECTION SYSTEM

00: -
 The present invention discloses an electric bike theft protection system (20) for controlling the two wheeler vehicle thefts. The theft protection system (20) comprises a RFID reader module, tamper detection mechanism, GPS and GSM module, and a user friendly mobile application. The RFID reader module (15) is operatively integrated into the structure of the bike by means of at least one power source. The RFID reader module (15) authenticates the RFID cards or tags by comparing their unique identifiers with authorized entries in a database. The tamper detection mechanism (5) comprises an accelerometer which is strategically placed within the bike's structure. The tamper detection mechanism (5) independently detect unauthorized movement or tampering with the bike and trigger security protocols, including immobilization of the bike notifying the owner of a security breach. The GPS and GSM module (6) configured to enable real-time tracking and notification of the bike's location to the owner's by means of a mobile phone. The GPS module determines the location of the bike in connection with activation of counterfeit detection mechanisms. The user friendly mobile application provides real-time access to the bike's activation status, location and one or more important metrics.

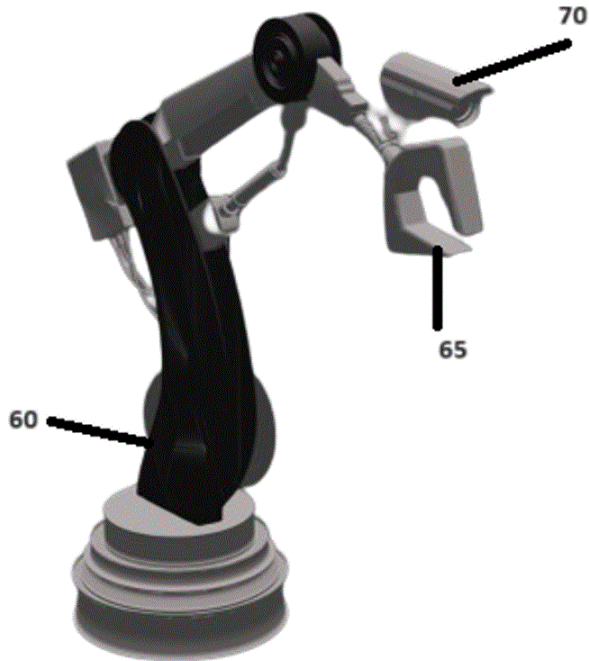
The present invention (20) will reduce the bike thefts in an effective manner.



21: 2024/06624. 22: 2024/08/28. 43: 2025/03/05
 51: F17D
 71: M.KUMARASAMY COLLEGE OF ENGINEERING
 72: Raja Guru Ramaraj, Gowsidharan Sumathi Thangavel, Krithicroson Raj Kumar
54: AN INDUSTRIAL AUTOMATION SYSTEM FOR PRODUCTION LINE

00: -
 The present invention discloses an industrial automation system for production line to increase the productivity using the advanced control systems. The system (50) comprises plurality of sensors is detecting the presence of the objects/parts/components in and around the specific location. The plurality of cameras strategically positioned in different angles for capturing the images at various angles/directions. The robotic hand is configured to transfer the objects/parts/components from one side to another side by means of the received instructions. The suction cup (65) or gripper is operatively coupled with the robotic hand. The suction cup or gripper is configured to pick the various dimensional parts and components from the storage area to conveyor line at different angles/positions. The decision making module is configured to receive the camera/sensor information for comparing the details about the various directional/dimensional objects with respect to the requirement of production line. The said module (80) also instructs the robotic hand for picking the required parts from the storage area and

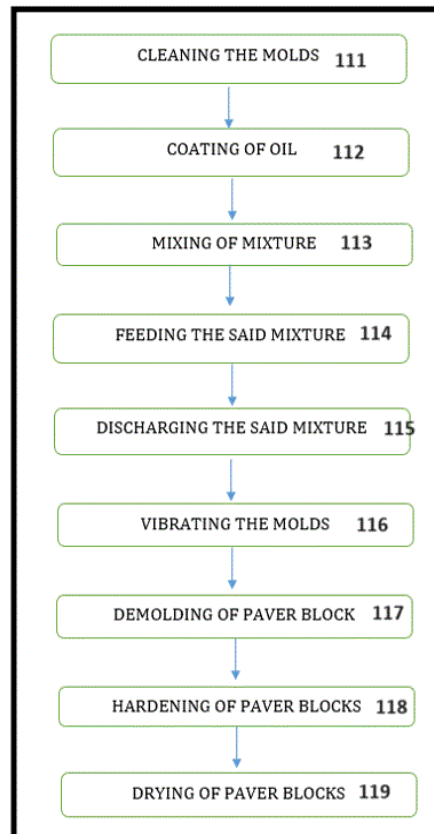
placing it over the conveyor line with respect to the demand of product in the assembly line. The present invention will reduce the waiting time and increases the productivity in an effective manner.



setting it properly without any porosity, demolding of paver block from the mold for allowing to dry the blocks for minimum 24 hours in direct sunlight, hardening of paver blocks for curing with water to permit moisturization or setting of cement for next 20 days, wherein the water will be replaced at every three days, and drying of paver blocks after curing process for completing the initial shrinkage of the blocks before the usage. The present invention will increase the usage of plastic usage in the construction applications for reducing the pollution level.

21: 2024/06625. 22: 2024/08/28. 43: 2025/03/05
 51: E01C
 71: M.KUMARASAMY COLLEGE OF ENGINEERING
 72: Srinivasan Nachimuthu palanisamy, Vetturayasudharsanan Ramasamy, Balaji Govindan
54: A METHOD OF PREPARATION OF PAVER BLOCK USING PLASTIC WASTE AND RECYCLED AGGREGATES
 00: -

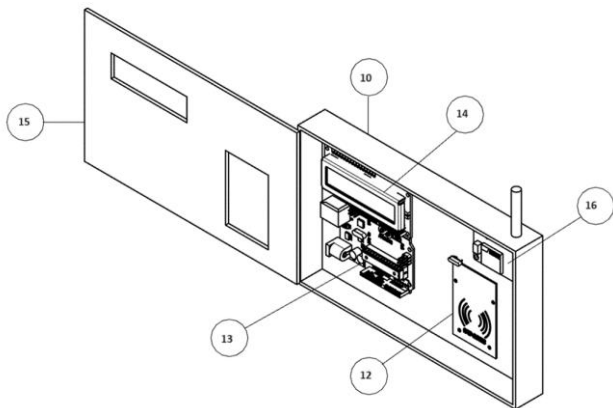
The present invention discloses a method of preparation of paver block using plastic waste and coarse aggregate for utilizing the plastic wastes properly to reduce the pollution. The method comprising cleaning the molds of prism/paver/cylinder using one or more cleaning techniques, coating of oil at the inner area of the prism/paver/cylinder in minimum level, mixing of cement mixture/plastic waste/recycled aggregates with water for making the paver blocks using the plastic wastes and recycled aggregates, feeding the said mixture in a concrete mixture for rotating it for the period of minimum 15 minutes, discharging the said mixture on to the molds without drying of mixture, vibrating the molds using the vibrators for



21: 2024/06626. 22: 2024/08/28. 43: 2025/03/05
 51: G06Q
 71: M.KUMARASAMY COLLEGE OF ENGINEERING
 72: Maniraj Perumal, Vishweshwar Periyannan
54: A SYSTEM FOR GUIDING PARENTS IN ACADEMIC INSTITUTIONS
 00: -

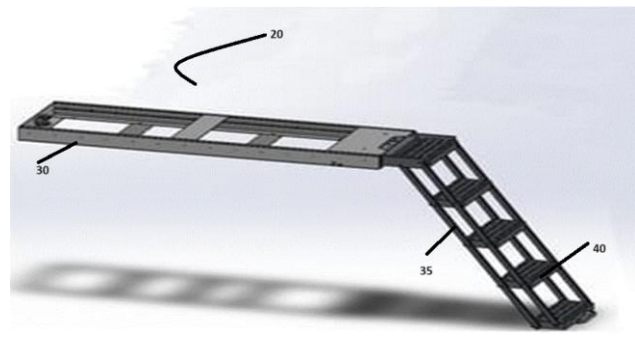
The present invention discloses a system for guiding parents in academic institution for finding their children classroom easily without spending more time. The system (10) comprises a power source is

configured to supply necessary amount of energy to the system. The RFID card is configured to store the unique details of the one or more students. The said unique details may comprise the academic performance, research details and the like. The RFID module (12) is configured to extract and process the data received from the RFID card when the insertion of card over the said module. The RFID module stores the plurality of information of the students/parents on its memory area to provide the requested information on the display. The Arduino is configured to verify the parental information with respect to the student data by means of the predefined instruction. The GSM module (14) is provided to send the requested details to the respective teachers/faculty by means of the Arduino control. The said requested details may comprise the classroom number, area, building or the like. The LCD display module (15) is configured to indicate the responses over the screen area for directing the parents to reach the respective classroom/floor/building. The present invention will reduce the time and effort to find the children classroom in an effective manner.



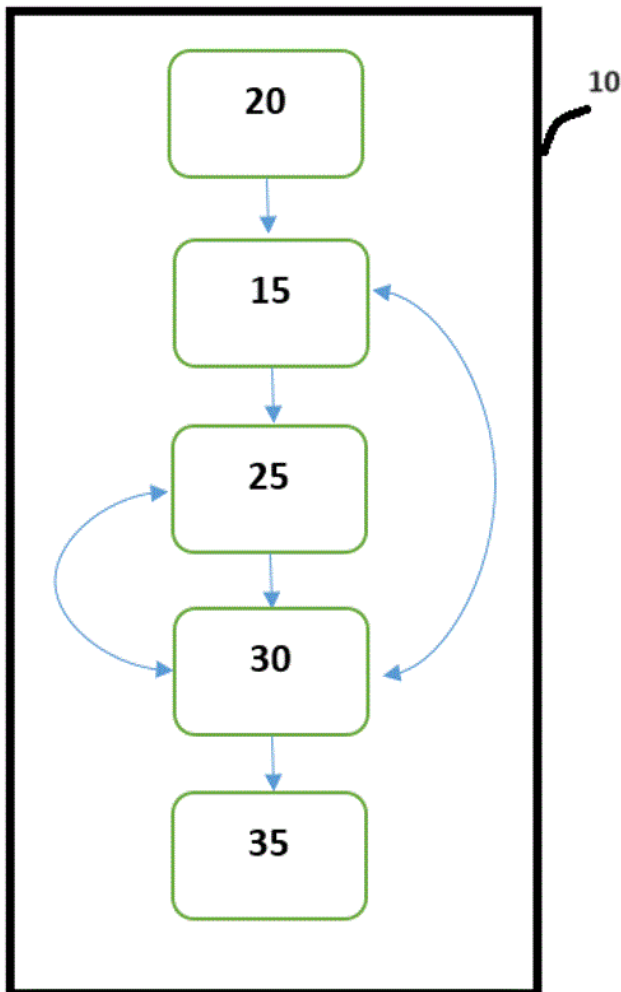
21: 2024/06627. 22: 2024/08/28. 43: 2025/03/05
 51: E06C
 71: M.KUMARASAMY COLLEGE OF ENGINEERING
 72: Mohan Prasad Manimohan, Athish Nandagopal, Barani Karthik Manoharan
54: A RETRACTABLE LADDER SYSTEM FOR LOAD CARRYING VEHICLE
 00: -
 The present invention discloses a retractable ladder system (20) for load carrying vehicles for easily loading/unloading the goods. The retractable ladder

system comprises a pull-out ladder frame, a first step, a second step, a first connecting piece, a first handrail, a first synchronizing component and a chassis. The said chassis comprises plurality of layers, wherein the plurality of layers configured for housing the retractable ladder system at its inner sides in longitudinal direction. The set of guide rails (30) positioned in between the layers for providing the movement to the ladder assembly when the operating conditions. The set of ladder frames (35) moveably positioned with the set of guide rails for facilitating the movement in to and fro directions based on the need of the user. The plurality of stepping rods (40) permanently coupled with the ladder frame for providing the stepping options to the user for loading/unloading of goods. The said plurality of stepping rods houses the plurality of limiting mounts for controlling the linear and angular movement, of the ladder frame and stepping rods.



21: 2024/06628. 22: 2024/08/28. 43: 2025/03/05
 51: G08B
 71: M.KUMARASAMY COLLEGE OF ENGINEERING
 72: Siva kumar Thanganadar, Swathi Ramalingam, Swetha Kannan, Varshini Senthil Kumar
54: AN INTEGRATED SYSTEM FOR MANAGING WATER LEVEL IN SUBWAY FOR ACCIDENT PREVENTION
 00: -
 The present invention discloses an integrated system (10) for managing water level in subway to prevent the accidents due to excess water. The integrated system comprises a plurality of moisture and humidity sensors operatively positioned at the individual subway for continuously monitoring the water levels when the detection of rainfall. The energy generating module (20) is having the plurality of piezo electric modules for converting the pressure energy into electricity. The overflow management

module comprises a pump/motor assembly which is configured to drain the excess water from the subway upon detection of the stagnant or excess water. The automatic door system (30) is positioned at various entrances of the subway, wherein the door system is configured to prevent the people/vehicle access through the subway when the detection of excess water. The plurality of wire type leakage detecting sensors configured to identify/detect the presence of water leakage after passing the excess water through the pump assembly. The said wire type leakage sensor is detecting the leakage of water in between after passing the water through the pump assembly and before reaching the destination point. The present invention (10) will reduce the accidents by means of excess water in subways in an effective manner.



21: 2024/06629. 22: 2024/08/28. 43: 2025/03/05
51: G05B

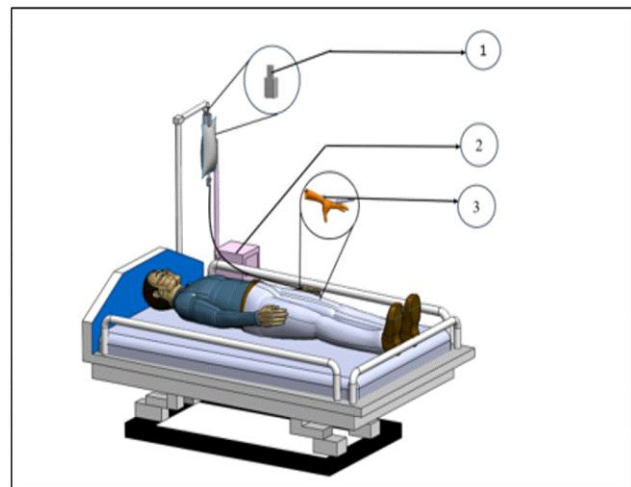
71: M.KUMARASAMY COLLEGE OF ENGINEERING

72: Dr.Jegadeesan Subramani, Pradeep P, Prasanth P, Prasanna Kumar R, Rahul B

54: ARTIFICIAL INTELLIGENCE ENABLED HEALTH MONITORING SYSTEM

00: -

The present invention discloses an artificial intelligence system for health monitoring of patients for increasing their life using the plurality of sensors and modules. The health monitoring system comprises a power source and a wireless body area network. The wireless body area network comprises a plurality of strategically positioned sensors, which houses the weight-based load cells, heart rate monitors and gyro sensors on a patient's body in a detachable manner. The centralized platform is receiving real-time data from the plurality of said sensors via the integration of IoT technology. The DC motor control system is connected to said centralized platform. The said DC motor control system regulates medication injection based on real-time health data collected by the plurality of said sensors. The DC motor control system adjusts medication dosages remotely based on health data received from said sensors. The present invention will reduce the accidents and communication delays in an effective manner.



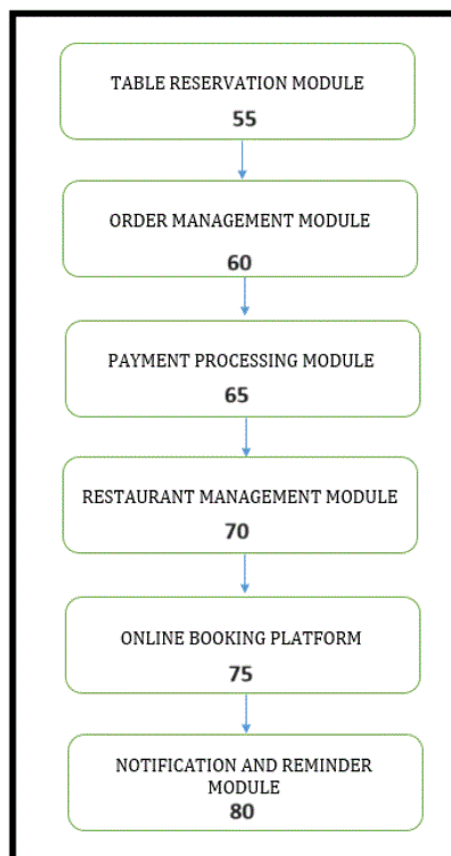
21: 2024/06630. 22: 2024/08/28. 43: 2025/03/05
51: G06Q

71: M.KUMARASAMY COLLEGE OF ENGINEERING

72: Dr.SHEIKDAVOOD KAITHBEER, SIVASHANKAR BALASUBRAMANIYAM,

SUGANTHRAJ PALANISAMY, SRI HARI SELVAM SHANMUGAPRIYA, SOWGAR RAVICHANDRAN
54: A SYSTEM FOR TABLE AND FOOD RESERVATION IN RESTAURANTS

00: -
 The present invention discloses a system for table and food reservation in restaurants for reducing the waiting time of the customers. The system comprises a table reservation module is configured to control the availability of tables and to enable patrons to book tables for particular times and dates based on the need of the user. The order management module is provided to process the order from customers, monitor order statuses and to control the inventory levels for providing the perfect experience to the customers. The payment processing module is configured to process the payments in a safe way including the refund and cancellation activities by integrating with several payment gateways like credit, debit cards/wallets as well as online banking. The restaurant management module is provided to manage the restaurant partners in one or more criteria. The online booking platform is operatively connected by the user handheld devices using the internet facility. The notification and reminder module is operatively linked with the plurality of aforementioned modules which is configured to receive timely notifications and reminders by the users/customers in the form of messages, alerts or the like. The present invention will increase the safety and reduce the waiting time of the regular customers in an effective manner.

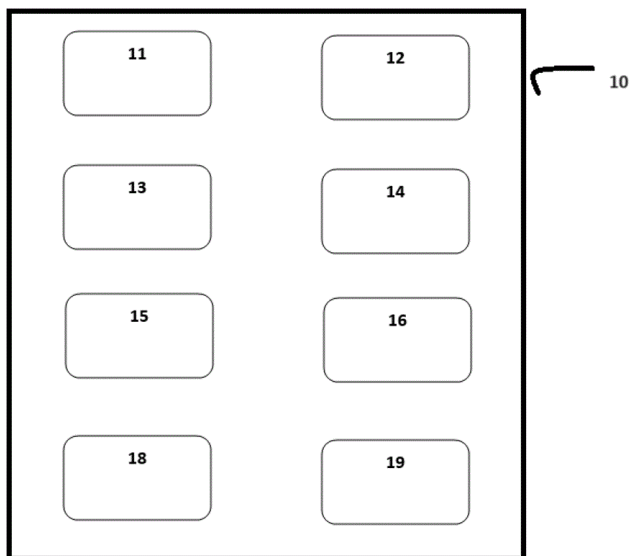


21: 2024/06631. 22: 2024/08/28. 43: 2025/03/05
 51: G05F

71: M.KUMARASAMY COLLEGE OF ENGINEERING
 72: Dr. NITHYANANDAM THANGAVELU, SAKTHI NAVEEN RAJA, SABAREESHWARAN KARUPPAIYA, SRI VISHNU RAVANAN
54: AN INTELLIGENT WAVE REPULSION TECHNIQUE BASED SAFETY SYSTEM FOR VEHICLES

00: -
 The present invention discloses an intelligent wave repulsion technique based safety system (10) for preventing the vehicle accidents while overtaking. The safety system comprises an emission sub system, LiDAR sensor, AI module, camera, microphone and a communication module. The emission sub system (11) comprises a wave repulsion technology which is configured to create the safety buffer around the vehicle while overtaking. The LiDAR sensor (12) is configured to provide accurate real time detection of the surrounding. The AI module (14) is provided for acting as the decision making sub system by analysing the information to determine the optimum frequency and intensity

using the emission sub system's interface. The camera (15) is positioned at the vehicle for capturing visual information. The microphone is configured to detect the one or more auditory information. The pressure sensor (18) is provided for monitoring the vehicle tire pressure continuously for preventing the accidents. The communication module (19) housed inside the system for enabling the communication between vehicle and the environment to anticipate traffic conditions and coordinate safety measures. The present invention (10) will reduce the accidents during overtaking of vehicles in an effective manner.



21: 2024/06632. 22: 2024/08/28. 43: 2025/03/05
51: G05D

71: M.KUMARASAMY COLLEGE OF ENGINEERING

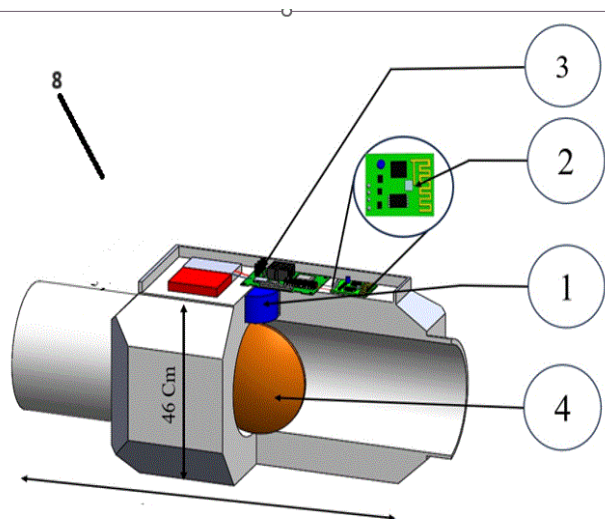
72: Dr. Sivanandam Kaliannan, PRABIKA RAMESH, RITHIKA GANESAN, SANJITHA RAMALINGAM, SANTHIGA PALANISAMY

54: A SYSTEM FOR CONTROLLING THE FLOW OF FLUID IN A FLOW CONTROL VALVE

00: -

The present invention discloses a system for controlling the flow of fluid in a flow control valve for regulating the flow of fluid to increase the productivity by maintaining the proper moisture and density in paper pulp industries. The system (8) comprises a plurality of sensors is configured to detect the density and moisture level of paper pulps by means of the density and moisture sensor. The control system (1) is configured to receive and process the sensor data for determining the optimal water flow based on the predefined instructions. The

safety module (2) is configured to cut off the flow of fluid when the detection of abnormal condition of system and the times of sensor failures. The wireless communication module (3) is configured to send the data to the control system as well as to the users for controlling the flow of water wirelessly. The user interface module is configured to control the operation of the system by the user/operator by operating the one or more handheld devices from remote locations via the wireless communication module. The user may get the data from the sensors wirelessly and may adjust the parameters based on the requirements of density/moisture levels. The present invention (8) will reduce the time taken and increases the productivity of paper recycling process in an effective manner.



21: 2024/06634. 22: 2024/08/28. 43: 2025/03/05
51: A23F

71: Hunan University of Humanities, Science and Technology, Chen Zhiyin, Zeng Wenjuan, Liu Shan, Zhu Youpeng

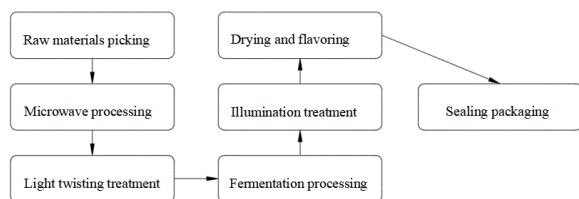
72: Chen Zhiyin, Zeng Wenjuan, Liu Shan, Zhu Youpeng

54: METHOD FOR IMPROVING AROMA OF BLACK TEA

00: -

Disclosed is a method for improving the aroma of black tea, including the following steps: step 1, raw materials picking; step 2, microwave processing; step 3, light twisting treatment; step 4, fermentation processing; step 5, illumination treatment; step 6, drying and flavoring; and step 7, sealing packaging: bagging and sealing black tea finished products in

step 6 to form black tea finished products. The present invention relates to the technical field of black tea processing. By sealing and preserving, the method for improving the aroma of black tea enhances freshness-retaining capability of the black tea. By microwave processing, internal liquid cells of black tea leaves can be fixed and original fresh leaf cells are protected to prevent an enzyme reaction from losing the aroma. By illumination treating with a light-emitting diode (LED) light source that produce minimal heat, fresh leaves can be exposed at close range, resulting in a finished black tea with a rich, sweet floral aroma and a sweet, mellow taste, significantly improving quality of the black tea. At the same time, by adopting an appropriate drying temperature, processed black tea achieves an even better aroma and an enhanced overall quality.



21: 2024/06635. 22: 2024/08/28. 43: 2025/03/05
51: A23F

71: Hunan University of Humanities, Science and Technology, Chen Zhiyin, Zhu Youpeng, Zeng Wenjuan, Liu Shan

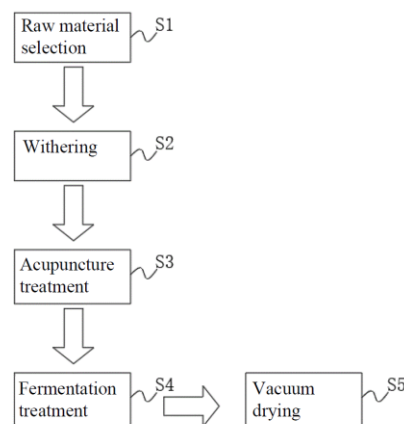
72: Chen Zhiyin, Zhu Youpeng, Zeng Wenjuan, Liu Shan

54: METHOD FOR INCREASING THEAFLAVIN OF BLACK TEA

00: -

The present invention provides a method for increasing theaflavin of black tea, including the following steps: S1. raw material selection; S2. withering; S3. acupuncture treatment: putting withered leaves in the step S2 into a tea twisting machine, and carrying out acupuncture treatment through an acupuncture device; S4. fermentation treatment; and S5. vacuum drying. The present invention relates to the technical field of black tea processing. The method for increasing theaflavin of black tea withers original leaves by a light source, and up-regulation expression of aroma-related enzyme genes of withered leaves is promoted in an early stage of withering. β-glucosidase activity is regulated in the later stage of withering, the

appearance of sweet floral fragrance of black tea is promoted, and the content of theaflavin is increased. Meanwhile, fresh apples are picked and crushed, the crushed fresh apples are added into a fermentation device, the activity of polyphenol oxidase is increased and the content of theaflavin is further increased. A cell disruption rate is significantly improved by acupuncture treatment, the leaching of tea polyphenols, catechins, oxidoreductases, proteins, amino acids and polysaccharides is promoted. Enzymatic oxidative polymerization and condensation reaction of polyphenols in leaves, and non-enzymatic reaction between polyphenol oxidation products and polysaccharides, proteins, amino acids, and the like in leaves are effectively regulated, further increasing the content of theaflavins.



21: 2024/06636. 22: 2024/08/28. 43: 2025/03/05
51: A61K

71: Dr. M. Ayub Ali, Dr. Ashmita Debnath, Dr. L. Inaotombi Devi, Dr. Jagan Mohanarao Gali, Dr. J. B. Rajesh, Dr. Lalnuntluangi Hmar, Dr. L. Reena Devi

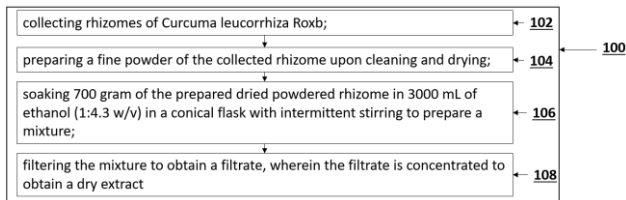
72: Dr. M. Ayub Ali, Dr. Ashmita Debnath, Dr. L. Inaotombi Devi, Dr. Jagan Mohanarao Gali, Dr. J. B. Rajesh, Dr. Lalnuntluangi Hmar, Dr. L. Reena Devi

54: FORMULATING AND ANALYSING THE EFFECT OF CURCUMA LEUCORRHIZA ROXB. IN TREATING EXPERIMENTALLY INDUCED DIABETES MELLITUS

00: -

A composition and method of formulating effect of Curcuma leucorrhiza Roxb. in treating Experimentally Induced Diabetes Mellitus, comprises of: collecting rhizomes of Curcuma leucorrhiza Roxb; preparing a fine powder of the collected rhizome upon cleaning and drying; soaking 700 gram of the

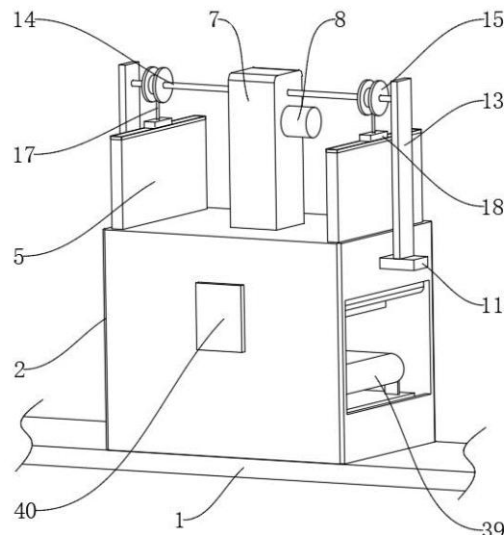
prepared dried powdered rhizome in 3000 mL of ethanol (1:4.3 w/v) in a conical flask with intermittent stirring to prepare a mixture; and filtering the mixture to obtain a filtrate, wherein the filtrate is concentrated to obtain a concentrated extract.



21: 2024/06671. 22: 2024/08/29. 43: 2025/03/05
 51: G01V
 71: Yantai Nanshan University
 72: Fang Chuanxin, Liang Hao, Li Yuanzheng, Liu Yigang
 33: CN 31: 2024109308539 32: 2024-07-11

54: A DEVICE FOR DETECTING DANGEROUS GOODS DURING AVIATION TRANSPORTATION

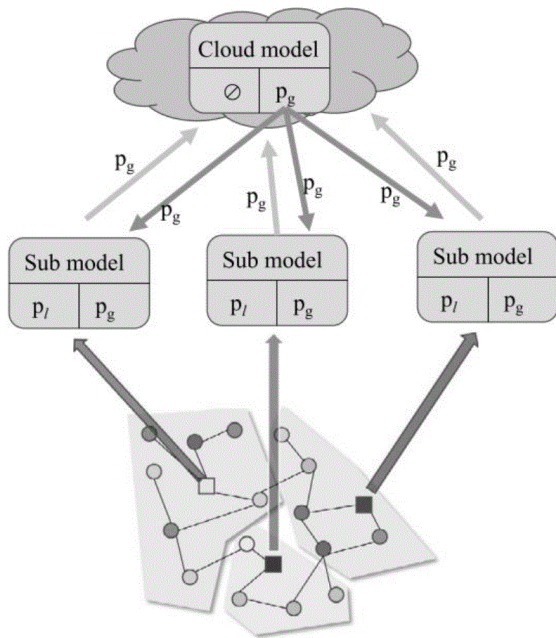
00: -
 The invention discloses a device for detecting dangerous goods in aviation security inspections, relating to the field of aviation security inspection technology. The invention includes a base, on which an explosion-proof box is fixedly installed. The top inside the explosion-proof box is equipped with a millimeter-wave imager, which detects dangerous items hidden under fabric. The upper surface of the explosion-proof box is provided with symmetrically arranged through-slots. In this invention, through the design of the through-slots and card slots on the explosion-proof box, a drive assembly is used to adjust the position of the explosion-proof door by moving the winding assembly, and then a pressing assembly is utilized to fix the position of the explosion-proof door in the sealed state. Meanwhile, the gravity generated by the explosion-proof door itself allows the pressing pad in the pressing assembly to adhere closely to the explosion-proof door, thereby achieving a secondary position fixation of the explosion-proof door, enhancing the seal between the explosion-proof box and the explosion-proof door, and improving the safety of the detection device when inspecting dangerous goods in aviation security inspections.



21: 2024/06674. 22: 2024/08/29. 43: 2025/03/05
 51: G08G
 71: Henan University of Urban Construction
 72: LIU, Yunchang, SHI, Chunlei, DU, Xiaojie, WAN, Fei, GUO, Lizheng, LIANG, Chengwu, ZHAO, Junmin

54: TRAFFIC FLOW PREDICTION METHOD BASED ON FEDERATED LEARNING AND ASYNCHRONOUS GRAPH CONVOLUTIONAL NETWORK

00: -
 The present invention discloses a traffic flow prediction method based on federated learning and an asynchronous graph convolutional network. In view of prediction accuracy and time cost of a model, with consideration for superiority of the federated learning and a graph convolutional neural network, a topological structure of traffic data is captured through the graph convolutional neural network, and the time cost is reduced through federated learning. Prediction accuracy and time of a prediction model are balanced, problems of time-consuming training and high communication cost caused by an increase in data amount of a global graph neural network are reduced, and the prediction accuracy is also improved.



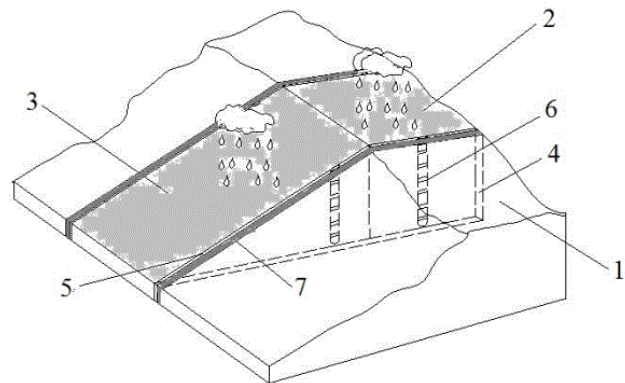
21: 2024/06675. 22: 2024/08/29. 43: 2025/03/05
51: G01N

71: Xi'an University of Technology, Xi'an University of Architecture and Technology, Yan'an University
72: Rongjian LI, Zhengwu YANG, Rongjin LI, Lei WANG, Guobing WANG, Jin LI, Quanwei HAN, Xuecheng YOU

54: AN IMPLEMENTATION METHOD FOR SETTING THE LATERAL ISOLATION BOUNDARY TO ACHIEVE THE PREVENTING LATERAL SEEPAGE AND REDUCTION OF FRICTION IN-SITU SLOPE TESTING BY LOCAL ARTIFICIAL RAINFALL

00: -
The present invention discloses an implementation method for setting the lateral isolation boundary to achieve the preventing lateral seepage and reduction of friction in-situ slope testing by local artificial rainfall. In the in-situ slope testing by artificial rainfall, the isolated trench is first excavated, and then the FDR probe tube and isolated cloth are arranged on the side near the test slope in the isolated trench, finally, the backfill soil is layered and compacted, so as to realize the boundary conditions of prevented lateral seepage and longitudinal friction reduction of the test slope. The present invention lays a reasonable boundary setting method foundation for the testing research of in-situ artificial rainfall slope. The lateral loss of water during rainfall infiltration is effectively blocked through the impermeability of the isolated cloth, and the friction

resistance of the boundary on both sides of the test slope is reduced through the smoothness of the isolated cloth, wherein the FDR probe tube is externally connected with a data acquisition instrument, which can read the soil volume moisture content at each depth in real-time, and is convenient to observe the depth of rainfall infiltration in dynamic observation test. The present invention sets reasonable lateral boundary conditions for prevented lateral seepage and longitudinal friction reduction for the test slope, which makes the in-situ artificial rainfall slope more realistically simulate the actual natural rainfall slope, and has very important application value for improving the reliability of the in-situ slope testing by artificial rainfall.



21: 2024/06676. 22: 2024/08/29. 43: 2025/03/05
51: G01B

71: China Railway No.2 Bureau No.4 Engineering Co., Ltd., China Railway Investment Group Co., Ltd., China RAILWAY NO.2 Engineering Group Co., Ltd., China Railway Second Bureau Changchun Engineering Co., Ltd.

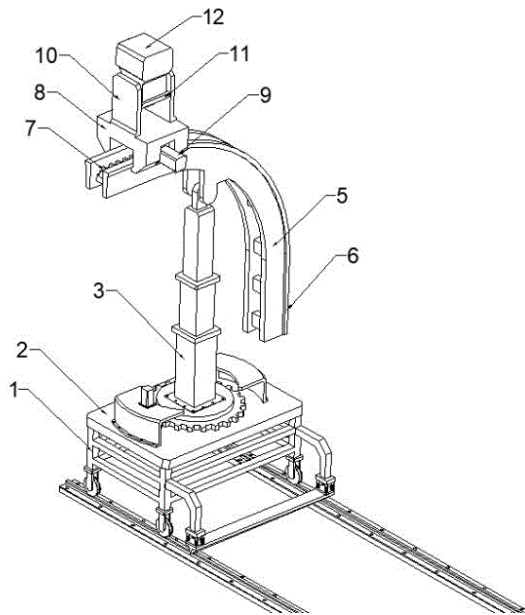
72: Wei Zhao, Shuang Tan, Gang Yang, Zhenyu He, Haowen Duan, Jianwen Ren

33: CN 31: 202420095863.0 32: 2024-01-12

54: A DETECTION TROLLEY

00: -
The invention discloses a detection trolley, which includes a fixed frame, a hydraulic drive rod, an arc-shaped material feed frame, a scraping assembly, and a detection mechanism. The fixed frame is a rectangular bracket, with an object platform set at the upper part of the fixed frame. The upper part of the object platform is connected to the arc-shaped material feed frame through a hydraulic drive rod. The upper part of the arc-shaped material feed frame is equipped with a detection mechanism, which includes a slide bar, a moving trolley, a force

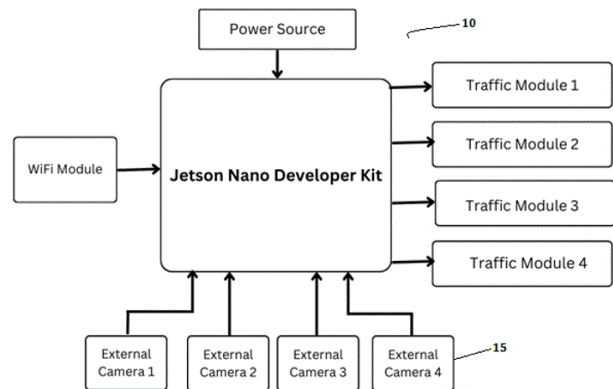
arm, a rotating platform, and a detection box. The moving trolley is movably connected to the slide bars on the arc-shaped material feed frame through the sliding grooves on both sides. The upper part of the moving trolley is provided with a force arm and a rotating platform, and a detection box is set on the rotating platform. A rotating shaft is arranged inside the moving trolley, and a first drive gear engaged with the rack is set on the rotating shaft. The rotating shaft is connected to an external first drive motor through a connecting component. This invention is used to solve the problem of existing tunnel detection equipment being unable to reach all corners, thus affecting work efficiency.



21: 2024/06679. 22: 2024/08/29. 43: 2025/03/05
 51: G08G
 71: M.KUMARASAMY COLLEGE OF ENGINEERING
 72: Marimuthu Murugesan, Mohanraj Sengottaiyan, Aravindraj Sivasubramanian, Vaishnavee Mugunthan, Varnika Sakthivelmurugan
54: AN ARTIFICIAL INTELLIGENCE POWERED DETECTION SYSTEM FOR TRAFFIC OPTIMIZATION

00: -
 The present invention discloses an artificial intelligence powered detection system (10) for traffic optimization using the advanced techniques for reducing the common mistakes in the traffic management. The system (10) comprises a plurality of cameras, single board computer and a user

friendly multi way communication platform. The plurality of cameras (15) operatively mounted on traffic signals for real-time traffic monitoring. The plurality of cameras (15) configured to capture images and videos by means of one or more power sources. The compact single board computer (20) is having a NVIDIA Jetson Nano developer kit. The said kit (25) is configured for processing and analyzing the captured images and videos from the plurality of cameras. The router is providing internet connectivity to the NVIDIA Jetson Nano developer kit (25) for enabling communication with external systems for data transmission and remote monitoring. The user friendly multi way communication platform is executed by the single board computer for real-time vehicle recognition and analysis. The present invention (10) will reduce the traffic errors and it provides the dynamic responses to the problems by means of predefined instructions in an effective manner.

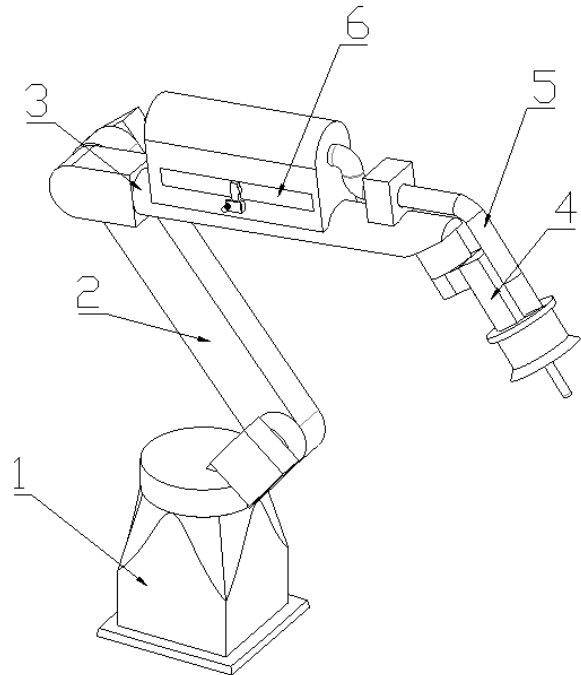
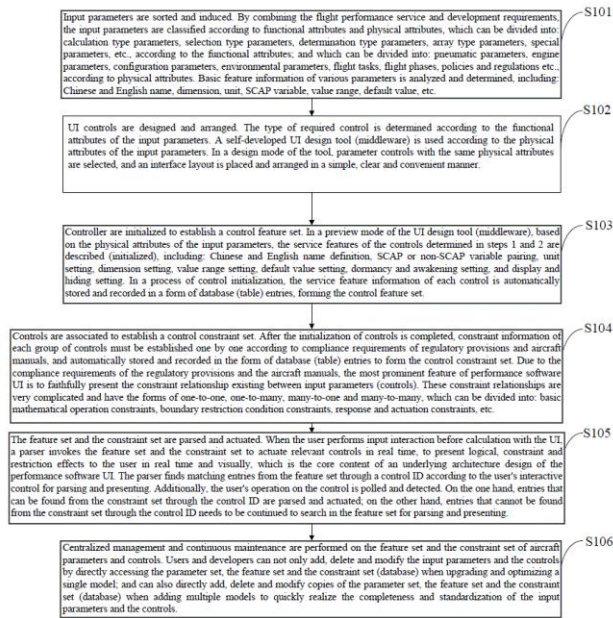


21: 2024/06680. 22: 2024/08/29. 43: 2025/03/10
 51: G06F
 71: Civil Aviation Flight University of China
 72: Wang Ke, Zhang Yan, Zhou Zeyou, Duan Tiecheng, Liu Yuyu, Liu Zhiqiang, Qiu Yang, Wang Yici, Zhu Xinyi, Zeng Xiaohong
 33: CN 31: 2023113720495 32: 2023-10-23
54: DESIGN METHOD AND SYSTEM FOR UNDERLYING MECHANISM OF USER INTERFACE INTERACTION IN AIRCRAFT PERFORMANCE SOFTWARE

00: -
 The present invention provides a design method and system for an underlying mechanism of user interface (UI) interaction in aircraft performance software. By receiving parameters inputted by a

user, the parameters are processed and a logical cross-linking relationship of controls is established according to functional attributes and physical attributes of the parameters, and the controls are initialized and a feature set and a constraint set are established. The system also invokes the feature set and the constraint set in real time through a parser to dynamically update the UI, providing real-time and visual feedback of logic, constraints and restrictions for designers. In addition, the system also contains a storage device to store and manage the feature set and the constraint set, which can be copied or edited to meet incremental rapid building needs of UI feature relationships of new or derivative type performance software. This system can significantly improve the design and use efficiency of aircraft performance software, while providing more optimized user experience. In the present invention, the needs of the user to achieve single-user design change or multi-user addition, and the needs of design development of versions in single-user, network and client-server (C/S) can be met.

The present application provides a laser welding robot and a welding method therefor, falling within the field of laser welding. A robot includes a supporting seat. A robotic arm I is mounted on the supporting seat. One end of the robotic arm I away from the supporting seat is mounted with a robotic arm II, and one end of the robotic arm II away from the robotic arm I is mounted with a welding head. A flue gas filtration mechanism is arranged on the robotic arm II, and a collection mechanism is arranged on the robotic arm II. A welding end on the welding head is allowed to weld workpieces. During the welding, the flue gas filtration mechanism moves along with the welding head to collect the flue gas generated by the welding, reducing a flue gas directly floating in the air during the welding. Dust particles in the flue gas are filtered by the flue gas filtration mechanism, and the filtered flue gas is discharged from the flue gas filtration mechanism, reducing the flue gas generated by welding floating in the air during the welding and reducing the effect on a working environment of a welding workbench and on the health of operators.



21: 2024/06681. 22: 2024/08/29. 43: 2025/03/05
 51: B23K
 71: Huainan Normal University
 72: Zheng Mingliang, Wu Long
54: LASER WELDING ROBOT AND WELDING METHOD THEREFOR
 00: -

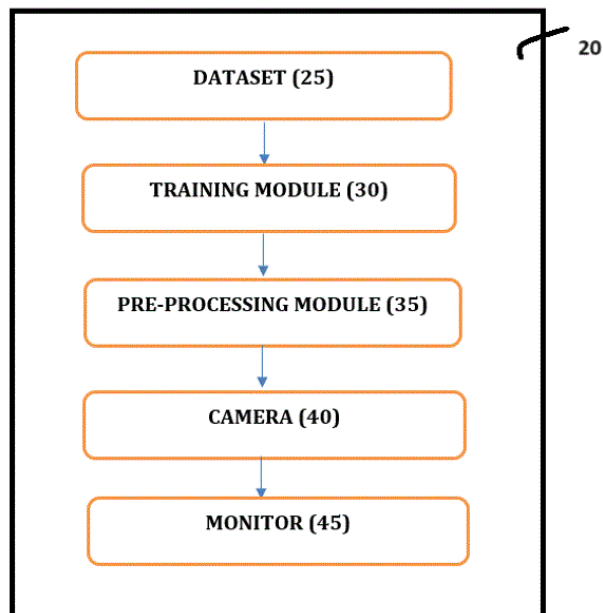
21: 2024/06682. 22: 2024/08/29. 43: 2025/03/05
 51: G01N
 71: M.KUMARASAMY COLLEGE OF ENGINEERING

72: KANDHASAMY KARTHIK, PREETHA RAJAVEL, RANGA SHREE SARAVANAN, SOUNDHARYA SAMYDHURAI, YUVASRI SUBRAMANI

54: A SYSTEM FOR INSPECTION OF PLASTIC BOTTLES

00: -

The present invention discloses a system (20) for inspection of plastic bottle to detect the defects like size, shape and aspect ratio. The inspection system comprises a dataset is configured to collect and store the plurality of images for categorizing as the three classes of defects related to bottled water for to continuous inspection. The training module (30) in configured to feed the collected images into the network for adjusting model parameters through backpropagation, and validating the model's performance by means of the predefined instructions. The pre-processing module is provided to upload the images of water bottles for defect prediction. The pre-processing module is eliminating the image noise and classifying the defects for achieving improved accuracy rate. The camera (40) is operable by the power source which is configured to capture the images of the bottled water in the conveyor line for controlling the defected bottle with respect to shape, size and aspect ratio. The monitor is configured to display the one or more results in one or more format. The said one or more format of results will be informed to the authorized person by means of email alerts and buzzer notification. The present invention will easily identify the defects in bottled water for increasing the productivity.



21: 2024/06683. 22: 2024/08/29. 43: 2025/03/05
51: C07K; C12N

71: INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES

72: WU, Haiqing, SU, Shaofeng, LI, Jian, QIAO, Jianmin, LI, Zeting, TIAN, Jing, ZHAO, Xiaojuan, JIA, Xiaoqing, ZHANG, Chongzhi

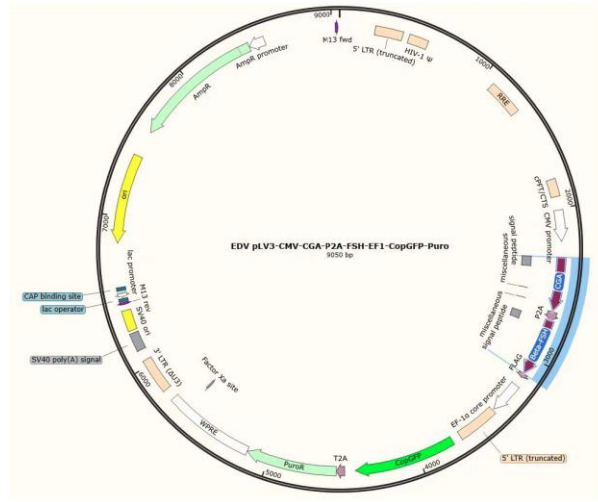
33: CN 31: 202410774997X 32: 2024-06-14

54: RECOMBINANT FUSION PROTEIN OF HORSE FSH AND ITS PREPARATION METHOD AND APPLICATIONS

00: -

The present disclosure provides a recombinant fusion protein of horse FSH and its preparation method and applications, belonging to the technical field of gene recombination. A nucleotide sequence of the recombinant fusion protein of horse FSH is shown as SEQ ID NO: 1 or SEQ ID NO: 2. In present disclosure, a set of Alpha-FSH-P2A-Beta-FSH-FLAG recombinant sequences is designed and cloned into a lentiviral expression vector of mammalian cells, after being transferred into human embryonic kidney cells, monoclonal cells with stable expression of the recombinant fusion protein of horse FSH can be obtained. The recombinant protein of horse FSH prepared by this method can promote the development of multiple follicles in equine animals, increase the number of ovulation follicles, promote the development of embryo transfer of equine animals and rapid propagation

technology of horses of fine breed, and make up for the lack of horse FSH products.



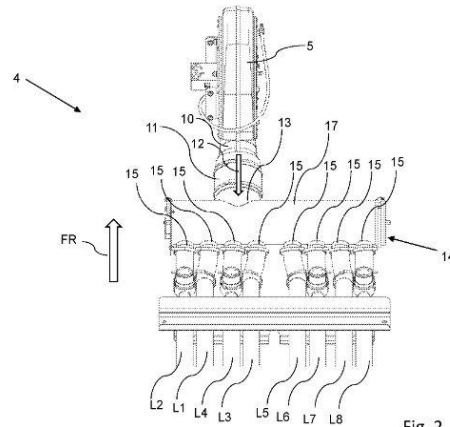
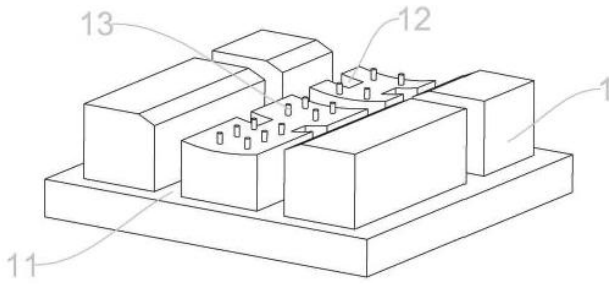
21: 2024/06684. 22: 2024/08/29. 43: 2025/03/05
 51: A61K; A61P
 71: LI, Fengxiang
 72: LI, Fengxiang
 33: CN 31: 2024109620501 32: 2024-07-17
54: TRADITIONAL CHINESE MEDICINE COMPOSITION WITH KIDNEY TONIFYING AND SPLEEN AND STOMACH STRENGTHENING, PREPARATION METHOD THEREFOR, AND USE THEREOF

00: -
 The present invention relates to the technical field of pharmaceutical compositions, and in particular, to a traditional Chinese medicine composition with kidney tonifying and spleen and stomach strengthening, a preparation method therefor, and use thereof. The traditional Chinese medicine composition specifically comprises: 3-7 parts of Poria, 3-7 parts of Pericarpium Zanthoxyli, 3-7 parts of Atractylodis Macrocephalae Rhizoma, 3-7 parts of Foeniculi Fructus, 3-7 parts of Eucommiae Cortex, 3-7 parts of Citri Reticulatae Pericarpium, 3-7 parts of Morindae Officinalis Radix, 3-7 parts of Cistanches Herba, 3-7 parts of Magnoliae Officinalis Cortex, 3-7 parts of Rehmannia glutinosa, 1-2 parts of Rubi Fructus, 3-7 parts of Rehmanniae Radix, 13-17 parts of Dioscoreae Rhizoma, 3-7 parts of Ginseng Radix et Rhizoma, 3-7 parts of Cinnamomi Cortex, 3-7 parts of Citri Reticulatae Pericarpium Viride, 3-7 parts of Glycyrrhizae Radix et Rhizoma, 3-7 parts of Astragali Complanati Semen, 3-7 parts of Cuscutae Semen, 8-12 parts of Psoraleae Fructus, 8-12 parts

of Lycii Fructus, 3-7 parts of salt, and 200-240 parts of black soybean. The composition provided by the present invention can strengthen spleen and nourish stomach, nourish kidney and promote production of body fluid, invigorate the yang, resolve phlegm and relieve abdominal mass; meanwhile, this composition has effects of blackening hair, prolonging life, strengthening body constitution, moistening skin, and regulating meridian and vessel of the female after long-term use.

21: 2024/06685. 22: 2024/08/29. 43: 2025/03/05
 51: H01R; H02P
 71: CHINA RAILWAY (GUANGZHOU) INVESTMENT & DEVELOPMENT CO., LTD, CHINA RAILWAY TUNNEL GROUP CO., LTD
 72: ZHANG, Pengxiang, LI, Xiaofei, WANG, Xiaomeng, SHAO, Jianlong, XIE, Yongjun, GUO, Qi, DUAN, Xijie, ZHANG, Sai, ZHANG, Xiaofeng, WU, Xiaozan, SHI, Jian, ZHU, Zhenbo, WU, Lianghai, LI, Ling, HU, Zhenxi, ZHANG, Dongdong, WU, Haixiang, ZHANG, Yantao, SHI, Yushan, WANG, Jianmeng, CHEN, Erhu, LI, Jianxun
54: A SHIELD LAUNCHING GUIDE PLATFORM AND A LAUNCHING ANGLE ADJUSTMENT METHOD

00: -
 The present application discloses a shield launching guide platform and a launching angle adjustment method, aiming to solve the technical problem that the existing launching guide platform cannot adjust the launching angle of a shield machine, which leads to deviations when the shield machine advances after launching. At least four hydraulic cylinders are symmetrically arranged on both sides of the launching guide platform, so that the position of the bottom module of the shield body can be adjusted through the lifting/lowering movement, so that it conforms to the designed launching position, and then the whole shield body can meet the designed launching angle requirement; moreover, the space occupied by the hydraulic cylinders is small, which meets the environmental condition of the limited space under the launching shaft, and can effectively address the position error when the shield modules are hoisted down the shaft.



21: 2024/06687. 22: 2024/08/29. 43: 2025/03/05

51: A01C

71: LEMKEN GMBH & CO. KG

72: SURBORG, Carsten, BEIER, Carsten

33: DE 31: 10 2022 105 904.9 32: 2022-03-14

54: PNEUMATIC CONVEYOR DEVICE FOR GRANULAR MATERIAL, AND AGRICULTURAL DISTRIBUTING MACHINE

00: -

The invention relates to a pneumatic conveyor device (4) for conveying granular material, in particular seeds and/or fertilizer, comprising at least one fan (5) with at least one outlet (10) connected to at least one main air supply line (11) into which an air volume flow (12) generated by a fan (5) flows, wherein the at least one main air supply line (11) opens into an air inlet (13) of an air distributing device (14) in order to control the air volume flow (12), wherein the air distributing device (14) has an even number of air outlets (15), each of which is connected to a connection line (L1, L2, L3, ..., L8) connected to a metering device (16) for supplying the granular material, and the air distributing device (14) is designed as a cylindrical housing (17) with a rotary valve (18) arranged therein, said rotary valve being designed to change the outlet cross-section of the air outlets (15) in order to manipulate the supplied air volume flow (12) for transporting the granular material coming from the respective metering device (16).

21: 2024/06696. 22: 2024/08/29. 43: 2025/03/05

51: A21B

71: ZHEJIANG OUHENG FOOD CO., LTD

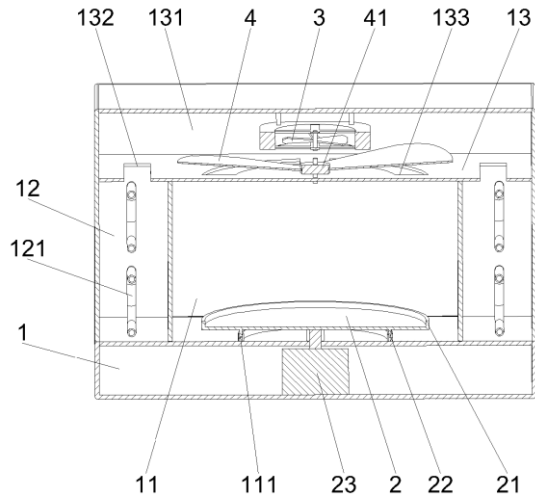
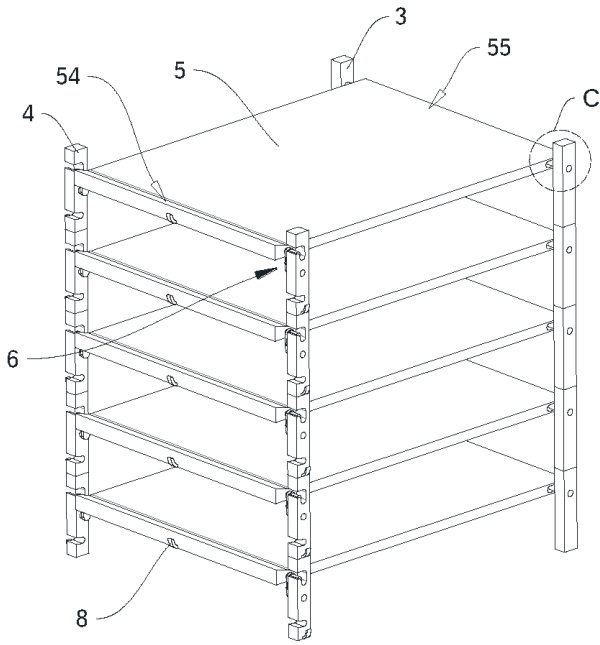
72: HU, Huamei, HE, Jianwu, ZHOU, Jinlong, ZHU, Yiping, WU, Xue

54: BAKING RACK CONVENIENT FOR UNLOADING

00: -

The present invention discloses a baking rack convenient for unloading, including first support rods, second support rods, and a plurality of baking plates with two ends arranged on the first support rods and the second support rods respectively. The baking plate has a rotating end rotatably connected to the first support rods and a swinging end connected to the second support rod in a swinging manner, the baking plate is connected to the second support rod in a swinging manner by a rotating member, the rotating member includes a first rotating shaft and a second rotating shaft parallel to each other, the first rotating shaft is rotatably connected to the baking plate, and the second rotating shaft is rotatably connected to the second support rod. The baking plates are enabled to rotate to increase the distance between the adjacent baking plates, so as to facilitate unloading of bread on the baking plates.

Fig. 2



21: 2024/06697. 22: 2024/08/29. 43: 2025/03/05
 51: A21B
 71: ZHEJIANG OUHENG FOOD CO., LTD
 72: ZHOU, Jinlong, HU, Huamei, HE, Jianwu, ZHU, Yuping, WU, Xue

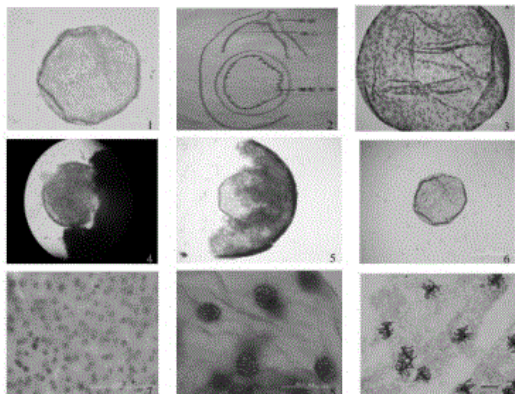
54: BAKING OVEN

00: -
 Disclosed is a baking oven, including an oven body. The oven body is provided with a baking chamber and side chambers located on two sides of the baking chamber, a top chamber is provided above the baking chamber, a partition is mounted between the baking chamber and the top chamber, heating tubes are mounted inside the side chambers, the partition is provided with through holes for connecting the side chambers with the top chamber and hot air holes for connecting the top chamber with the baking chamber, a fan facing the hot air holes is mounted inside the top chamber, and rotating spacers are provided between the fan and the hot air holes. The fan rotates to deliver hot air with heat generated by the heating tubes into the baking chamber through the hot air holes, and the spacers rotate to intermittently block the hot air holes, thereby preventing the hot air delivered by the fan from directly acting on food to be baked to prevent the upper surface of the food from cracking and even being burnt due to the hot air, and thus ensuring more uniform heating on the food, more consistent baking state, and better taste.

21: 2024/06705. 22: 2024/08/30. 43: 2025/03/06
 51: C12N
 71: JINLING INSTITUTE OF TECHNOLOGY
 72: ZHANG, Min, LI, Youli, YANG, Yuanyuan, ZHENG, Caixia

54: METHOD FOR SEPARATING FEMALE GAMETOPHYTES OF PINUS TABULAEFORMIS CARR. IN FREE NUCLEUS STAGE

00: -
 The present invention provides a method for separating female gametophytes of *Pinus tabulaeformis* Carr. in a free nucleus stage, which belongs to the technical field of plant tissue culture. The method for separating female gametophytes of *Pinus tabulaeformis* Carr. in a free nucleus stage includes the following steps: performing primary enzymatic hydrolysis on ovules to obtain enzymatically hydrolyzed ovules, dissecting the ovules subjected to the primary enzymatic hydrolysis to obtain nucelli, performing secondary enzymatic hydrolysis on the nucelli, and then performing hypotonic treatment with a mannitol solution to obtain the female gametophytes. The female gametophytes are separated by the method provided by the present application, the final yield of the female gametophytes is the highest, reaching 61.7 percent, moreover, damage to the female gametophytes is also small, and the obtained female gametophytes have complete structures.



21: 2024/06706. 22: 2024/08/30. 43: 2025/03/06

51: C04B

71: University of Science and Technology Beijing, Solid Waste and Chemicals Management Center of the Ministry of Ecology and Environment of China
72: LI Yunyun, DU Huihui, HUO Huimin, QI Zihan, LI Xin, CHEN Xinying, GU Mingyuan, YANG Guodong, NI Wen

54: COMPOSITE CEMENTITIOUS MATERIAL CONTAINING MOLTEN IRON DESULFURIZATION SLAG AND PREPARATION METHOD THEREOF

00: -

The invention discloses a composite cementitious material containing molten iron desulfurization slag and a preparation method thereof, belonging to the field of resource utilization of industrial solid wastes and building materials. The raw materials include, based on dry basis, 10 percent-40 percent of molten iron desulfurization slag, 10 percent-30 percent of steel slag, 20 percent-50 percent of slag, 5 percent-20 percent of industrial by-product gypsum and triethanolamine. According to the invention, a plurality of solid wastes are cooperatively prepared to prepare a non-burning solid waste-based cementitious material, so that the high added value of molten iron desulfurization slag is fully utilized, and a large-scale utilization way is provided for the solid waste-based cementitious material in the field of building materials; and the problems of slow early hydration reaction rate, low strength and long setting time are solved by utilizing the high alkalinity of the solid waste-based cementitious material, so that the resource utilization rate is improved, and carbon dioxide is greatly reduced, and obvious economic and environmental benefits are achieved.

21: 2024/06707. 22: 2024/08/30. 43: 2025/03/06

51: C11B

71: INSTITUTE OF CHINESE MATERIA MEDICA CHINA ACADEMY OF CHINESE MEDICAL SCIENCES

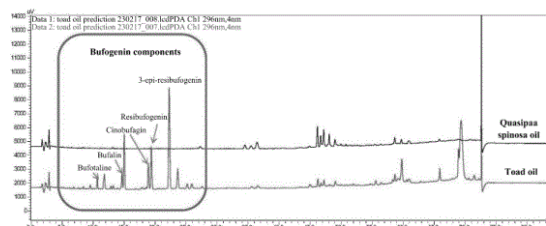
72: SI, Nan, LIU, Yuyang, BIAN, Baolin, DING, Yaohua, ZHAO, Haiyu, WEI, Xiaolu, WANG, Hongjie, YANG, Jian, ZHOU, Yanyan

33: CN 31: 202311199293.6 32: 2023-09-15

54: TOAD OIL, AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention provides a preparation method for toad oil. According to the preparation method, toad viscera are crushed, heated, and then separated to obtain the toad oil. According to the preparation method of the present invention, the toad viscera after toad venom is collected and toad skin is stripped are taken as raw materials, and are extracted and processed into the toad oil, such that waste is changed into treasure. The toad oil obtained by the preparation method of the present invention has obvious effects on skin diseases (inflammation, eczema, etc.), and according to component analysis, the toad oil of the present invention also has antitumor activity.



21: 2024/06708. 22: 2024/08/30. 43: 2025/03/06

51: G05D

71: Affiliated Hospital of Nantong University

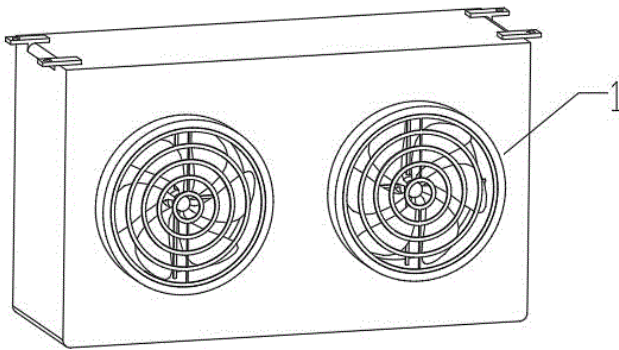
72: QinWang

54: A CONSTANT TEMPERATURE DEVICE AND SYSTEM FOR PHARMACEUTICAL WAREHOUSE STORAGE

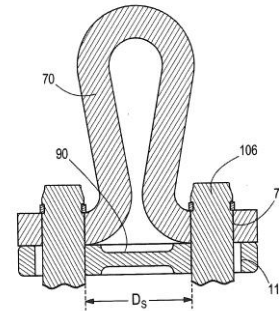
00: -

The present invention relates to the field of constant temperature technology for pharmaceutical warehouse storage, specifically a constant temperature device for use in pharmaceutical storage. This device includes a constant temperature unit body, within which an air intake duct is fixedly connected. The inner surface of the air intake duct is equipped with a stable support plate, which internally rotates a rotating rod. The beneficial

effects are as follows: The constant temperature device and system proposed for pharmaceutical storage ensure the maintenance of a constant temperature within the pharmaceutical warehouse. Guide vane blades are set on the surface of the rotating rod, which, when air flows inside the air intake duct, drive the rotating rod to rotate internally. Dust filter disk frames inside the air intake duct filter the air entering the body of the constant temperature device. Thus, a brush plate cleans the dust filtered from the outer surface of the dust filter disk frames, preventing the dust in the air from entering the interior of the constant temperature device body through the air intake duct.

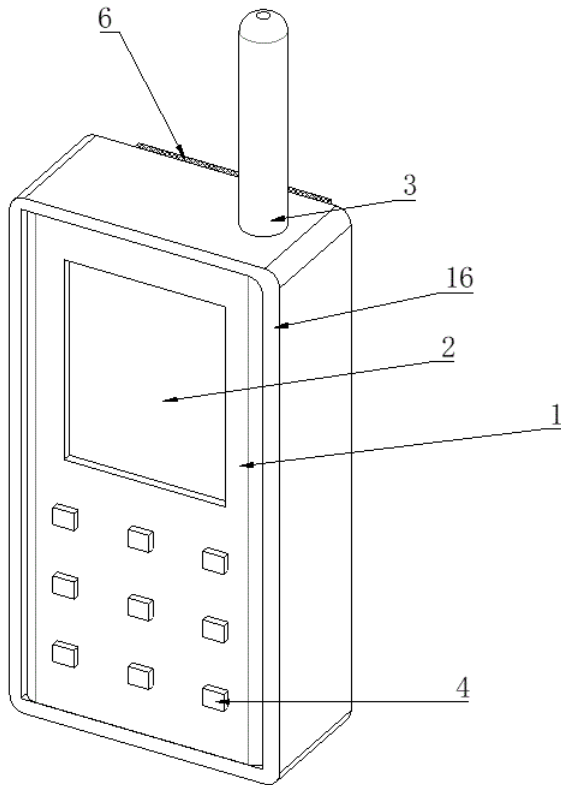


21: 2024/06709. 22: 2024/08/30. 43: 2025/03/06
 51: B65G
 71: JOY GLOBAL UNDERGROUND MINING LLC
 72: HANNOLD, Nathan M., HOOVER, Joseph D.
 33: US 31: 18/462,906 32: 2023-09-07
54: RESILIENT LINK FOR CONVEYOR CHAIN
 00: -
 A link is provided for a conveyor chain that is configured to convey material in a direction of travel. The link includes a first end coupled to a first adjacent link, a second end opposite the first end and coupled to a second adjacent link, and a deformable portion positioned between the first end and the second end. The deformable portion is configured to elastically deform in response to loads exerted in a direction parallel to the direction of travel of the conveyor chain, thereby changing a distance between the first end and the second end.



21: 2024/06711. 22: 2024/08/30. 43: 2025/03/06
 51: H04B
 71: Henan University of Urban Construction
 72: Gao Caiyun, Gao Ning
54: BEIDOU-BASED AIRBORNE COMMUNICATION TERMINAL
 00: -

The present application provides a BeiDou-based airborne communication terminal, falling within the technical field of communication equipment. A terminal body is included, a display screen is mounted on the terminal body, keys are mounted on the terminal body and distributed in an array, and the keys are located below of the display screen; a transmitting and receiving end is fixed at an upper end of the terminal body, a battery is mounted at a lower end of an interior the terminal body, and a protective frame is arranged at one end of the terminal body away from the display screen; and a heat dissipation box is arranged at a lower end of the protective frame, and a heat dissipation mechanism is arranged between the heat dissipation box and the protective frame. In use, a motor drives fan blades to rotate to generate wind power, and the wind power enters a flare tube through the heat dissipation box; the flare tube blows the air to heat dissipation fins to dissipate heat; the flare tube increases a blowing area to facilitate heat dissipation; and the heat dissipation mechanism reduces the heat accumulation to improve the heat dissipation effect and reduce the influence on the operation and service life of equipment to facilitate use.



21: 2024/06712. 22: 2024/08/30. 43: 2025/03/06
51: B64B

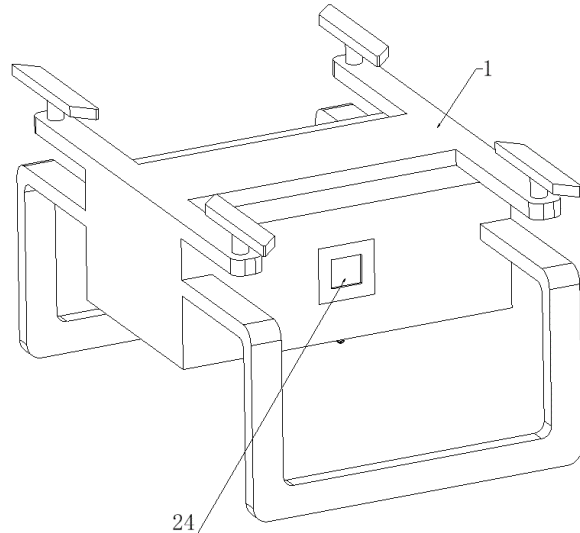
71: Henan University of Urban Construction
72: Gao Caiyun, Gao Ning

54: UNMANNED AERIAL VEHICLE DEVICE FOR REMOTE SENSING SETTLEMENT MONITORING OF GEOLOGICAL DISASTERS

00: -

The present application provides an unmanned aerial vehicle device for remote sensing settlement monitoring of geological disasters, falling with the technical field of automobile components. The present application includes an unmanned aerial vehicle body. A bottom of the unmanned aerial vehicle body is disposed with a mounting bin, a camera is fixedly connected to an interior of the mounting bin, and a transparent protective lens is fixedly connected to a bottom of the mounting bin. The bottom of the unmanned aerial vehicle body is disposed with a cleaning chute, a driving screw is rotatably connected to an interior of the cleaning chute, and a driving slider is slidably connected to the interior of the cleaning chute. The present application drives a driving motor to drive the driving screw to form a threaded connection with the driving slider, and the driving slider is driven to push a

cleaning roller brush to move along a length direction of the cleaning chute while rotating and brushing a surface of the transparent protective lens. The spraying assembly is cooperated to spray a cleaning liquid to the surface of the transparent protective lens, effectively reducing the influence of foreign matter such as dust on the imaging quality of the camera, and improving the accuracy and reliability of remote sensing data.



21: 2024/06713. 22: 2024/08/30. 43: 2025/03/06
51: A61H

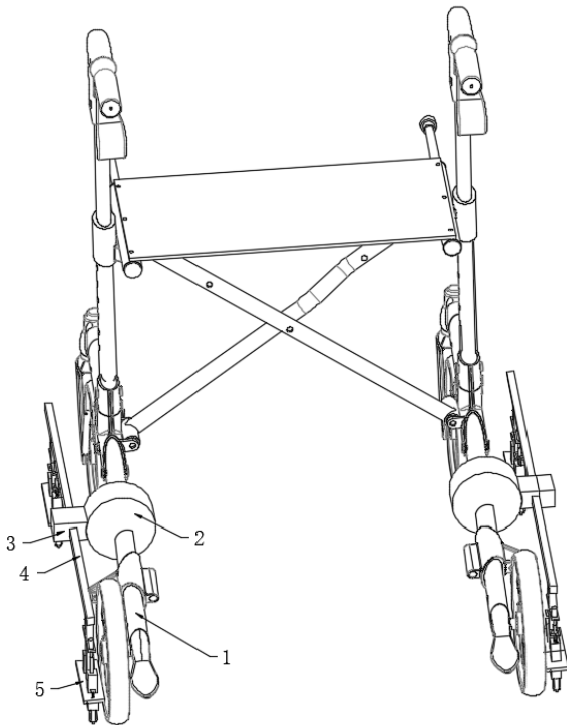
71: JIANGSU COLLEGE OF NURSING
72: ZHOU, Jinli, YANG, Ting, ZHU, Jing

54: WALKING AID FOR NURSING

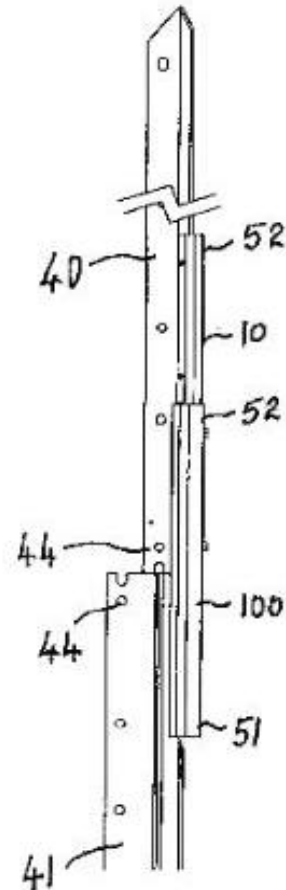
00: -

The present invention relates to technical field of medical nursing equipment, and proposes a walking aid for nursing, comprising: a walking aid, wherein an outer wall of the walking aid is arranged with two fixed disks, an end of each of the two fixed disks is fixedly connected to a rectangular block, an inner side of the rectangular block is fixedly connected to a connecting strip, a bottom of the connecting strip is fixedly connected to two connecting columns, a bottom of each of the connecting columns is fixedly connected to a load-bearing plate. In the present invention, cooperation of rotating plates and other parts is provided, so that the three unfolded rotating plates can form auxiliary support for the walking aid, thereby increasing contact area with ground and improving stability of the walking aid, enabling users to use the walking aid more stable when walking on

uneven roads. Through the above technical solutions, a problem of large shaking amplitude of a support of the walking aid caused by walking on roads with many potholes in the prior art has been solved.



coupling tube for joining two elongated tricuspid fence posts end to end, a fence post extender, a fence post, or a dropper. Also disclosed are tricuspid fence posts (140) of Y-shaped configuration having a circular hole (147) closely adjacent its ground engaging tip, V shaped or Y-shaped struts (501, 505, 811, 815, 915) and an agricultural fencing clip (610).



21: 2024/06739. 22: 2024/08/30. 43: 2025/03/06
 51: E04H
 71: WIREMAN PTY LIMITED
 72: LOWREY, Ian
 33: AU 31: 2022901679 32: 2022-06-20
 33: AU 31: 2022902673 32: 2022-09-15
 33: AU 31: 2022902874 32: 2022-10-04
 33: AU 31: 2022903852 32: 2022-12-15
 33: AU 31: 2023900214 32: 2023-01-31

54: AGRICULTURAL FENCING

00: -
 A multi-purpose rural fence component is disclosed which takes the form of an elongate sleeve (10, 100, 200, 300, 400, 410) having a longitudinal axis (11). The sleeve has a generally C-shaped transverse cross-sectional configuration with a shallow V-shaped back portion (14) which has two flanks (15, 16). The flanks each terminate in an acute V-shaped elbow (21, 22) having a free arm (24, 25) extending therefrom. The free arms extend towards each other and form a longitudinally extending open mouthed slot (13). The component can take the form of a

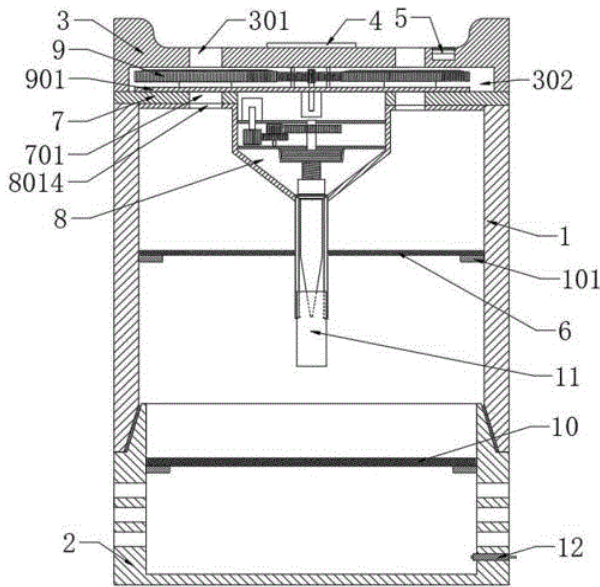
21: 2024/06746. 22: 2024/09/02. 43: 2025/03/06
 51: A61H

71: Shanxi Medical University
 72: LI Yunlan, GUO Lina, TONG Ling, LIU Weiran, NIU Qi, XIE Xiaoxia, PAN Yuning, SONG Yirui, YUAN Yiting, WU Jiayi, CHEN Yu, HUANG Yan, LIU Jiabei, HUANG Xinru, MU Rui

54: DEVICE FOR SMOKELESS MOXIBUSTION

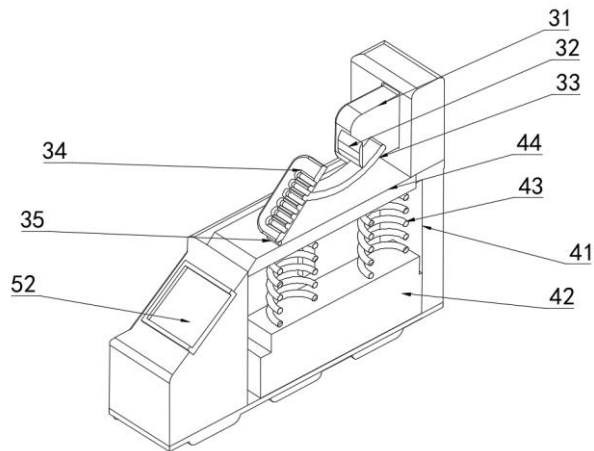
00: -
 The invention relates to the technical field of devices for moxibustion, in particular to a device for smokeless moxibustion, which includes a moxibustion barrel, where the moxibustion barrel has a cylindrical cavity structure, and the lower end

of the moxibustion barrel is provided with a circular base, and the base is screwed and fixed with the moxibustion barrel. The upper end of the moxibustion barrel is provided with a telescopic device along the inner cavity wall, and the moxa cone is arranged at the end of the telescopic device. The upper end face of the moxibustion barrel is provided with a supporting mounting plate, and the supporting mounting plate is provided with a circular top cover. The top end face of the circular top cover is provided with a plurality of first air outlets evenly distributed and penetrating along the circumferential direction of the central axis, the top end face of the circular top cover is also provided with a terminal display, and the top of the circular top cover is also provided with a battery box. The bottom of the circular top cover is provided with a concave groove, and the rotary opening and closing device is arranged in the inner cavity formed by the supporting mounting plate and the concave groove, and is fixedly arranged on the supporting mounting plate. The rotary opening and closing device is arranged below the first air outlets.



21: 2024/06747. 22: 2024/09/02. 43: 2025/03/06
 51: G01M
 71: Inner Mongolia Agricultural University
 72: ZHAO Ting, GAO Mingxing, ZHANG Guiman, LIANG Yin, LI Hangtian, WANG Haixiao, JIANG Zhengfa, XIE Songfang, LYU Zhen, LI Danlan
54: DETECTION DEVICE FOR SIMULATING DRIVING SUITABILITY OF DRIVER

00: -
 The invention relates to the technical field of driving detection, in particular to a detection device for simulating driving suitability of a driver, comprising a bottom plate; it also comprises a detection component, wherein the upper end of the bottom plate is movably connected with a bottom shell, and the detection component is arranged in the bottom shell, and comprises an adaptation groove, a weighing sensor, a spring, a movable plate, a chute and a sliding bar; the bottom shell is internally provided with an adaptation groove, the upper end of the bottom plate is connected with a weighing sensor which is matched with the adaptation groove, the upper end of the weighing sensor is connected with two springs at equal intervals, the side of the springs far away from the weighing sensor is connected with a movable plate. By arranging the detection component, the invention can achieve the effect of measuring the driver's foot force, adjust the tightness of the pedal in the automobile according to the measurement situation, so as to achieve the best suitable state, and then cooperate with the pedal component to carry out simulated simulation, comprehensively evaluate the driver's foot operation ability, and improve the accuracy and reliability of the detection result.

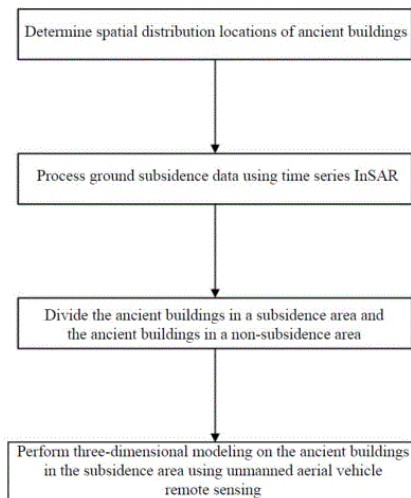


21: 2024/06748. 22: 2024/09/02. 43: 2025/03/07
 51: G06T
 71: Henan University of Urban Construction
 72: SUN, Yafei, ZHANG, Juanjuan, ZHANG, Zhimin, WANG, Yuying, ZHANG, Yuyi, YANG, Kaijie, YANG, Kai, WANG, Long
54: THREE-DIMENSIONAL RECONSTRUCTION METHOD FOR PROTECTING ANCIENT

BUILDINGS USING TIME SERIES INSAR AND UNMANNED AERIAL VEHICLE REMOTE SENSING

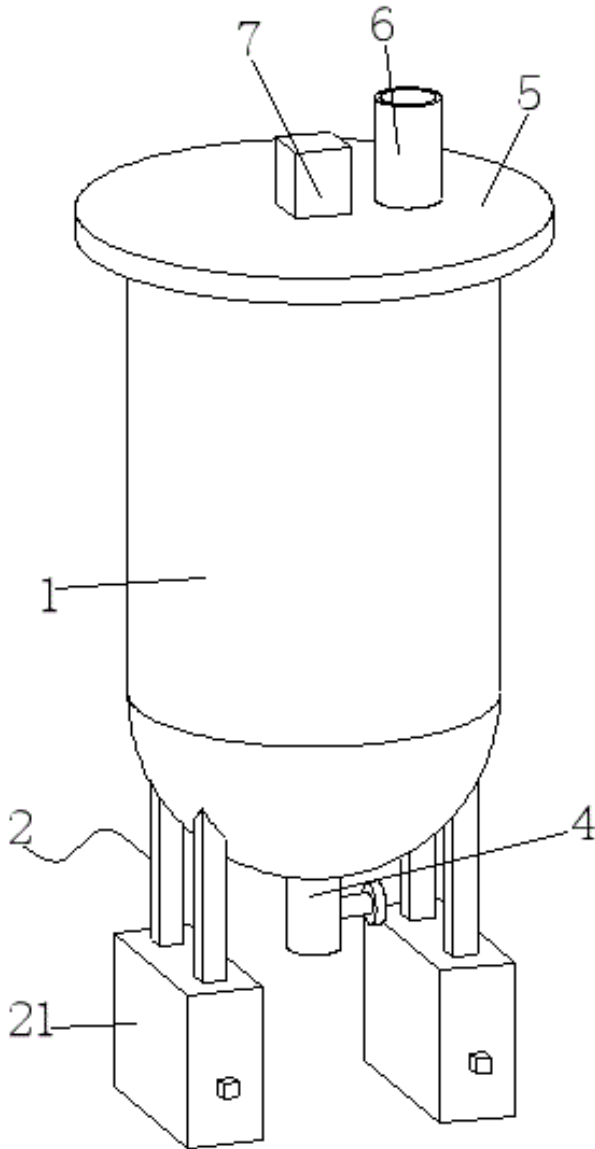
00: -

The present invention belongs to the technical field of ancient building three-dimensional reconstruction protection, and discloses a three-dimensional reconstruction method for protecting ancient buildings using time series InSAR and unmanned aerial vehicle remote sensing. The three-dimensional reconstruction method for ancient buildings based on time series InSAR and unmanned aerial vehicle remote sensing specifically includes the following steps: S1) determining spatial distribution locations of ancient buildings; S2) processing ground subsidence data using time series InSAR; S3) dividing the ancient buildings in a subsidence area and the ancient buildings in a non-subsidence area; and S4) performing three-dimensional modeling on the ancient buildings in the subsidence area using unmanned aerial vehicle remote sensing. The present invention can accurately perform three-dimensional reconstruction of the ancient buildings and provide scientific support and a decision-making basis for ancient building protection.

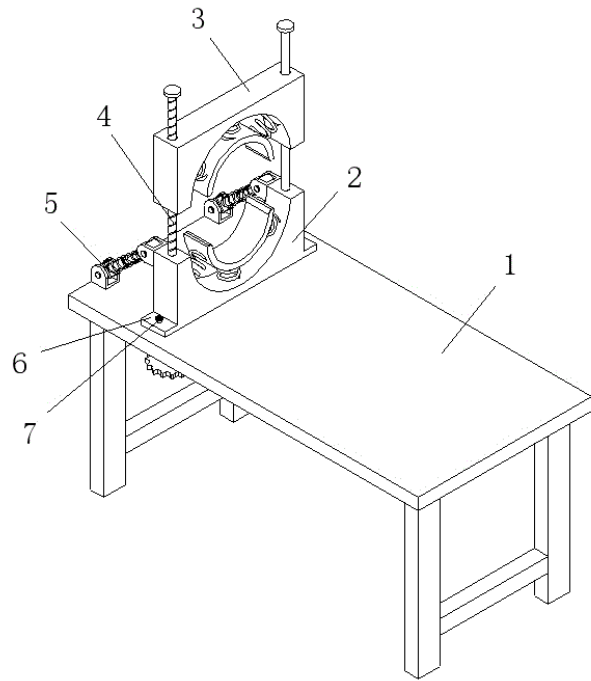


The invention discloses a feed mixing device for sheep farming, which belongs to the technical field of feed mixing. It includes an ingredient barrel, with a cover plate at the upper end of the ingredient barrel. One side of the upper end of the cover plate is provided with a feed inlet, and the middle position of the upper end of the cover plate is equipped with a first motor. The output end of the first motor is connected to a shaft rod, on which several stirring rods are arranged. The lower end of the ingredient barrel is equipped with a discharge pipe, and one side of the interior of the ingredient barrel is provided with a scraping assembly. A shock absorption assembly is arranged at the lower side of the ingredient barrel. When the device is in use, vibrations occur, causing the sliding column at the lower end of the ingredient barrel to push the sliding plate to slide within the base box. The sliding of the plate compresses the damping rod and the spring, allowing the device to achieve shock absorption through the damping rod and spring. The inclusion of the shock absorption assembly enhances the device's practicability by providing cushioning. Additionally, the scraping assembly can clean the inner wall of the ingredient barrel, preventing feed from adhering to the inner wall and making it difficult to clean.

21: 2024/06749. 22: 2024/09/02. 43: 2025/03/07
 51: A23N
 71: Yue Ren
 72: Yue Ren, Zhaxi Yangzong, Bin Shi
54: A FEED MIXING DEVICE FOR SHEEP FARMING
 00: -



through a bolt. The upper end of the lower fixing base is provided with an upper fixing base, and a sheep head fixing mechanism is arranged on the side edge of the upper end of the upper fixing base. In this invention, by providing the sheep head fixing mechanism, the sheep's head can be easily secured, ensuring that the sheep does not move around and interfere with the production process. The compression spring and buffer plate are designed to protect the sheep's head. Additionally, the invention includes a lower fixing base support mechanism, which facilitates the support of the lower fixing base, ensuring its stability and preventing damage to the lower fixing base due to the sheep's head movement.



21: 2024/06750. 22: 2024/09/02. 43: 2025/03/07

51: A61D

71: Yue Ren

72: Yue Ren, Mengjun Liu, Bin Shi

54: A HEAD FIXATION DEVICE FOR SHEEP USED IN PRODUCTION

00: -

The present invention discloses a head fixation device for sheep used in production, belonging to the technical field of livestock farming. It comprises a production platform, with a lower fixing base set on one side of the upper end of the production platform. An ear plate is arranged on the side edge of the lower end of the lower fixing base, and the ear plate is fixedly connected to the production platform

21: 2024/06751. 22: 2024/09/02. 43: 2025/03/07

51: B23K

71: Shenzhen Zhonghexu Precision Machinery Co., Ltd

72: Lu Fangna, Li Shaodong, Qin Dongpeng

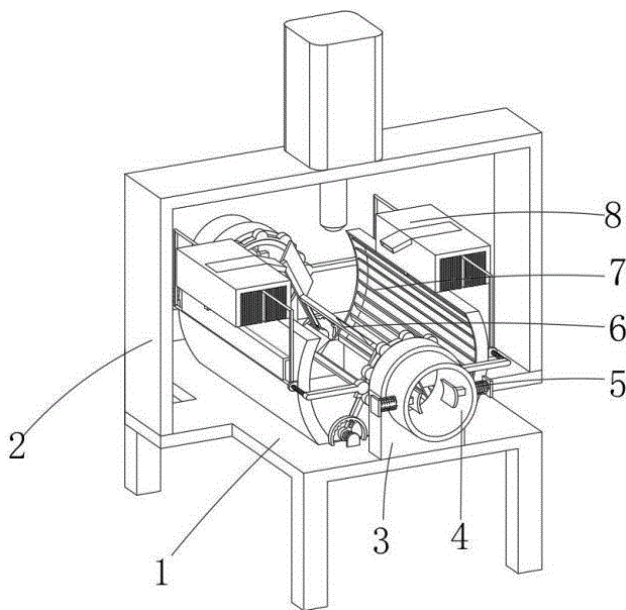
33: CN 31: 202311128595.4 32: 2023-09-04

54: DOUBLE-STATION LASER WELDING APPARATUS AND WELDING PLATFORM

00: -

Disclosed is a double-station laser welding apparatus and a welding platform, falling within the technical field of welding apparatuses. The present invention includes a welding platform body, and

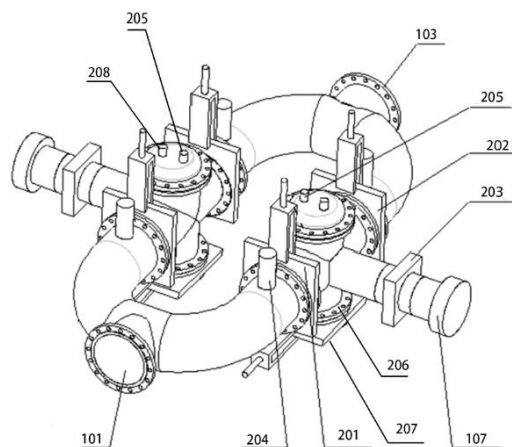
further includes an impurity removal device, an anti-spattering device and a cooling device. Fixing frames are fixed on a front face and a back face of the welding platform body, rotating cylinders are rotatably mounted inside the fixing frames, clamping plates penetrate through and are slidably mounted on two sides of each of the rotating cylinders, and springs are arranged between the clamping plates and the rotating cylinders; and the impurity removal device includes two U-shaped rods, the two U-shaped rods are hinged to a left side and a right side of a top of the welding platform body, and torsion springs are arranged between the U-shaped rods and the welding platform body. In the present invention, with the impurity removal device arranged, inclined plates and the U-shaped rods cooperate to drive scraping plates to be in contact with an outer wall of a cylindrical workpiece, and the scraping plates scrape off impurities from a surface of the cylindrical workpiece, avoiding the problems that the impurities affect the strength of a weld seam of the workpiece and lead to an uneven weld seam structure.



21: 2024/06752. 22: 2024/09/02. 43: 2025/03/10
 51: A61F; A61M; E21D
 71: CHINA RAILWAY 14TH BUREAU GROUP EQUIPMENT CO., LTD
 72: YANG, Lunlei, LI, Dongsheng, MAO, Mingli, LI, Xiangqing, TANG, Yajun, LI, Xiaokang, ZHANG, Yinghan, WANG, Zhichao, YANG, Yong, JI, Weihua,

LI, Jiaying, LU, Wenlin, TAO, Kanghong, SUN, Quansheng
 33: CN 31: 2023110854074 32: 2023-08-28
54: NON-CONTACT MUD PUMP PROTECTION DEVICE FOR SHIELD TUNNELING MACHINE, AND USE METHOD AND APPLICATION THEREOF

00: -
 The present disclosure relates to the field of transmission protection equipment, and in particular, to a non-contact mud pump protection device for a shield tunneling machine, and a use method and application thereof. Mud generated during working is fed through a feed pipe, and is then fed, through a discharge pipe, into a mud pump through a plurality of branches respectively. An on-off gate and a microwave breaking device are arranged in a branch pipe body of each branch. On-off of the corresponding branch pipe bodies is controlled through the on-off gates, so that when a certain branch pipe body is blocked, the corresponding branch pipe body is disconnected through the on-off gate, stones in the branch pipe body are then broken through the microwave breaking device, and meanwhile, the other branch is opened for mud transfer; and after the stones are broken, the other branch is closed step by step, and the previously blocked branch is opened again, so that the stones are automatically broken. In this way, the whole process is fully-automatic and continuous, and the mud pump is protected, thereby reducing labor intensity of personnel, improving efficiency of construction operations, and achieving intelligent and efficient construction.



21: 2024/06753. 22: 2024/09/02. 43: 2025/03/10

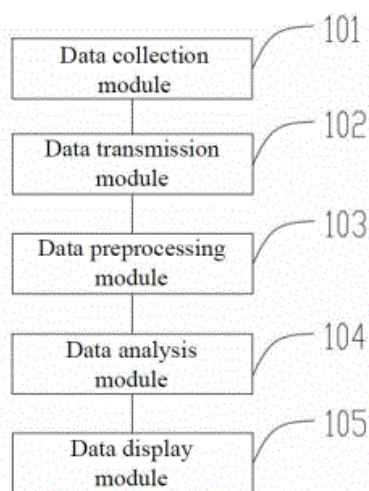
51: G06F
71: HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE

72: TIAN, Dongge

54: BIG DATA-BASED REAL-TIME ANALYSIS SYSTEM

00: -

The present invention discloses a big data-based real-time analysis system, relating to the technical field of big data. The system includes: a data collection module, provided on a server of a shopping website, and configured for collecting log data of the shopping website in real time, where the log data includes a user behavior log and a user transaction log; a data transmission module, configured for transmitting the collected log data to a data preprocessing module for processing via a distributed real-time data transmission channel; the data preprocessing module, configured for preprocessing the received log data, and cleaning and format conversion of the log data for subsequent data analysis; a data analysis module, configured for analyzing the preprocessed log data in real time using a big data analysis method to obtain a user transaction trend; and a data display module, configured for visually displaying analysis results to relevant personnel.



21: 2024/06771. 22: 2024/09/03. 43: 2025/03/10
51: C05F; C05G
71: BEIJING ZHONGNONG RUNTIAN FERTILIZER CO., LTD. YUCHENG BRANCH

72: WEN, Yanchen, QI, Aiqin, LI, Haiyan, LIU, Shujin

54: SPORE ENZYME AND SPORE ENZYME SERIES FERTILIZER, AND APPLICATIONS THEREOF IN AGRICULTURE

00: -

Disclosed is a spore enzyme and spore-enzyme series fertilizer, and applications thereof in agriculture. The spore enzyme includes high-efficiency bacteria and metalloproteases, and is prepared by the following mass percentages: 3%-5% : 45%-47% : 45%-50%. The metalloproteases are one or more of zinc, magnesium, manganese, molybdenum, iron, potassium, copper and calcium. The non-metallic proteases are a vitamin and a derivative thereof; and the high-efficiency bacteria are Bacillus amyloliquefaciens. The high-efficiency bacteria and the metalloproteases are mixed with the non-metallic proteases, and a secondary growth phenomenon is generated in the high-efficiency bacteria during a mixing process to form spores. The absorption and utilization of fertilizer can be improved by promoting root growth and regulating root absorption activity. Simultaneously, the activity of soil glandular enzyme is effectively inhibited, and the loss of ammonia volatilization and nitrate nitrogen loss is reduced.

21: 2024/06772. 22: 2024/09/03. 43: 2025/03/10
51: A61K

71: Hainan University

72: Minjie QIAN, Feili LI, Zhongrui WENG, Chengkun YANG, Xiaowen WANG, Wencan ZHU, Kaibing ZHOU

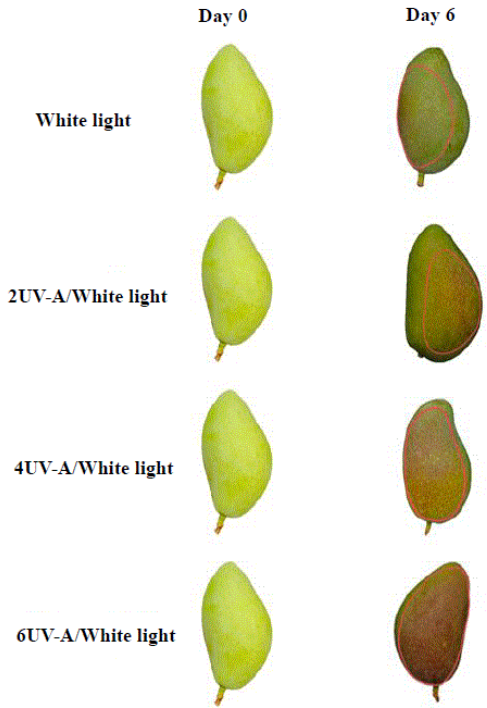
33: CN 31: 202411053448.X 32: 2024-08-02

54: METHOD FOR INDUCING COLORING OF RED MANGIFERA INDICA BY UV-A/WHITE LIGHT

00: -

The present invention provides a method for inducing coloring of red Mangifera indica by a UV-A/white light; the UV-A has a light intensity selected from 101.3-123.8 microW•cm⁻², 198.3-242.3 microW•cm⁻², or 316.2-386.5 microW•cm⁻², and the white light has a light intensity of 9,000-11,000 Lux. According to the present invention, three (low, medium and high) different gradients of UV-A light intensity are added on the basis of white light to induce an uncolored red Mangifera indica harvested at a green ripe stage. Moreover, temperature, humidity and light irradiation in the inducing environment are all controllable; after continuous treatment for a period of time, all can induce accumulation of anthocyanin effectively to facilitate coloring, thereby improving the appearance quality,

nutritional quality and marketability of the mango. The method of the present invention is reasonable in design, easy and simple in operation, safe and effective, and has relatively low requirements for equipment and can achieve large-scale operations. Furthermore, the method of the present invention can be demonstrated, popularized and applied to commercial production.

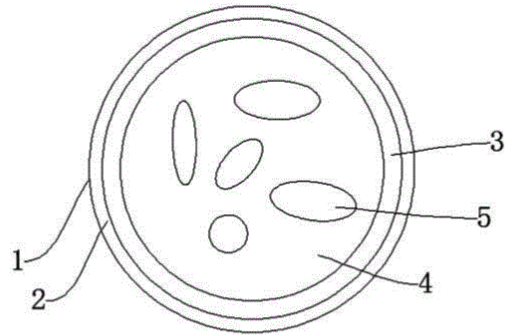


21: 2024/06773. 22: 2024/09/03. 43: 2025/03/10
 51: A01N
 71: Rice Research Institute, Heilongjiang Academy of Agricultural Sciences
 72: ZHAO, Haixin, NA, Yongguang, CAI, Yongsheng, HUANG, Xiaoqun, XU, Lingqi, CHEN, Shuqiang, DU, Xiaodong, ZHANG, Zhiqiang, FENG, Peng, DU, Yongsheng, YANG, Limin, BIAN, Jingyang

54: MECHANICALLY DIRECT-SEEDING RICE BUNDLING PELLETTED SEEDS AND PREPARATION METHOD THEREOF

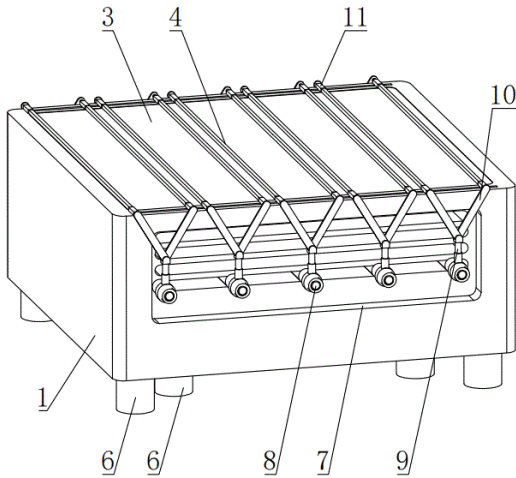
00: -
 The present invention discloses mechanically direct-seeding rice bundling pelleted seeds and a preparation method thereof. Raw materials of the pelleted seeds include: rice seeds, powder fillers, hydrating agents, binders, coating agents, fermented agricultural and forestry wastes, and wood vinegar. The results of the present invention are applicable to

paddy field production seeding with rice mechanically direct-seeding technology.



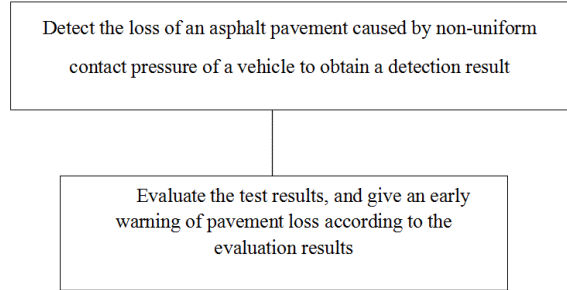
21: 2024/06774. 22: 2024/09/03. 43: 2025/03/10
 51: A61B
 71: Nanyang Haobo Optoelectronics Technology Co., Ltd
 72: Ding Dan, Jiang Ting
54: AN OPTICAL LENS PROCESSING CLAMPING DEVICE

00: -
 The present invention discloses an optical lens processing clamping device, comprising a housing, which is provided with a through groove that penetrates vertically. A rectangular block is provided in the through groove, and the outer wall of the rectangular block is in contact with the inner wall of the housing. The rectangular block can slide up and down inside the housing and cannot detach from the housing; There are multiple clamping units between the shell and the rectangular block, which include two rubber rods located above the shell and the rectangular block. When the rectangular block slides downward inside the shell, the two rubber rods in the same clamping unit approach each other. When the rectangular block slides upward inside the shell, the two rubber rods in the same clamping unit move away from each other. This invention solves the problem of not being able to clamp and fix multi size lenses in the current lens transfer process.



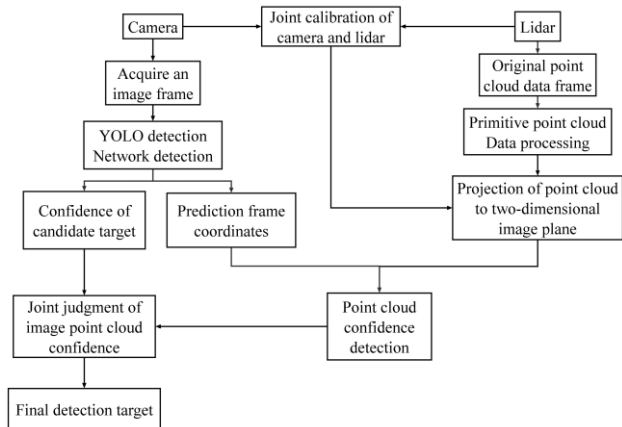
21: 2024/06775. 22: 2024/09/03. 43: 2025/03/10
 51: G06T
 71: CHINA ROAD & BRIDGE CORPORATION, HARBIN INSTITUTE OF TECHNOLOGY
 72: CHEN Zining, PEI Zhongshi, YI Junyan, CHENG Pengjian, LIU Zengxin, BAI Zhihao
 33: CN 31: 2024110273969 32: 2024-07-30
54: ENVIRONMENT-FRIENDLY ASPHALT PAVEMENT LOSS DETECTION METHOD BASED ON NEURAL NETWORK

00: -
 The invention discloses an environment-friendly asphalt pavement loss detection method based on neural network, which includes the following steps: detect the loss of asphalt pavement caused by non-uniform contact pressure of a vehicle to obtain a detection result; evaluate the test results, and give an early warning of pavement loss according to the evaluation results. The invention detects the environment-friendly asphalt pavement from five aspects, including non-uniform contact pressure, cracks, deformation of the pavement, aging of the pavement and cracking of the pavement, and adopts the self-learning feature of neural network to carry out adaptive learning and calculation, so as to quickly and accurately obtain the basic situation of the asphalt pavement. The evaluation model is used to evaluate the basic situation, and the evaluation results are used to optimize the neural network model, improve the work efficiency and reduce the labor consumption of artificial vision detection.



21: 2024/06776. 22: 2024/09/03. 43: 2025/03/10
 51: G06Q
 71: Taiyuan University of Science and Technology, Great Wall Electric Co., Ltd
 72: LI Xiaosong, CHEN Guanghua, HE Junqiang, FU Wenlong, ZHANG Zhaokun, SONG Yanhui
54: INTELLIGENT POWER CONSTRUCTION SAFETY RISK ASSESSMENT METHOD AND SYSTEM BASED ON MULTI-SOURCE DATA FUSION

00: -
 The invention discloses an intelligent power construction safety risk assessment method and system based on multi-source data fusion, wherein the system comprises an integrated lidar, a visual monitoring and an environmental monitoring subsystem to realize real-time collection of three-dimensional point clouds, high-definition images and environmental information. The system constructs a digital twin model through data fusion, automatically carries out risk assessment, detects potential safety risks in time, and sends out early warning through the alarm subsystem to improve construction safety.



21: 2024/06780. 22: 2024/09/03. 43: 2025/03/10
 51: A61K; A61P; A61Q
 71: PILLAY, Suntheran, NAIDOO, Devashan
 72: PILLAY, Suntheran, NAIDOO, Devashan

54: TOPICAL COMPOSITIONS FOR IMPROVED HAIR GROWTH AND/OR REDUCED HAIR FALL

00: -

The invention provides a composition, comprising Salvia Rosmarinus essential oil and an extract, fractional extract or isolate from Hericium erinaceus. The fractional extract from Hericium erinaceus preferably contains compounds found to exhibit dihydrotestosterone suppressing ability. The composition may be used in a topical formulation for the treatment of hairloss.

21: 2024/06781. 22: 2024/09/03. 43: 2025/03/10
51: A61B

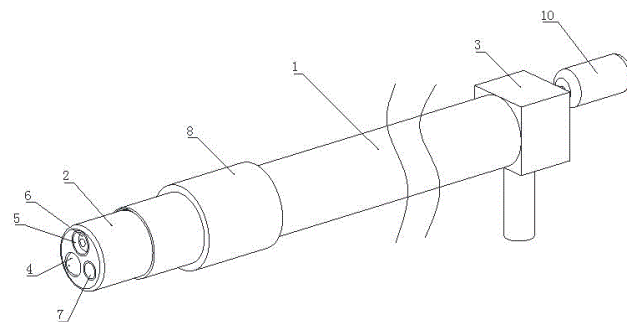
71: Meng Xunzhu, Meng Linghua

72: Meng Xunzhu, Meng Linghua

54: CLINICAL DIAGNOSTIC DEVICE FOR GASTROENTEROLOGY

00: -

The present invention relates to the technical field of medical instruments, and specifically to a clinical diagnostic device for gastroenterology. The present application includes a gastroscop pipe. A connection head is mounted on one end of the gastroscop pipe, and a control handle is fixedly connected to the other end of the gastroscop pipe. A detection probe is fixedly connected to an interior of the connection head, a connecting pipe is fixedly connected to and penetrates through the interior of the connection head, and a clean component is mounted on an interior of the connecting pipe. An emergency hole is arranged at and penetrates through the interior of the connection head. And an airbag is mounted on an outer wall of the gastroscop pipe. The clean component is arranged in the present application. When the gastroscop pipe is gradually penetrated into a patient's body, mucus in the patient's body will adhere to the detection probe. The clean component can be started at this time. The clean component is extended from the interior of the connecting pipe, and then a surface of the detection probe is flushed to flush the mucus on the detection probe, which can not only keep the surface of the detection probe clean and tidy, effectively improve shooting effects of the detection probe, but also enable a doctor to better observe and diagnose.



21: 2024/06782. 22: 2024/09/03. 43: 2025/03/10
51: A61K

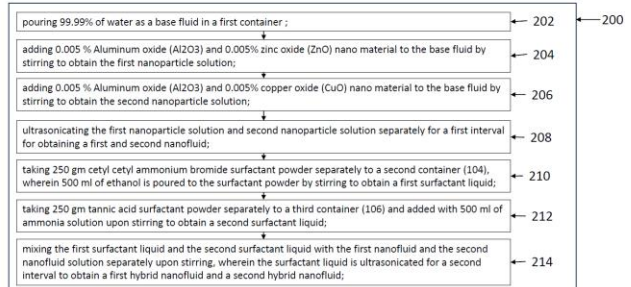
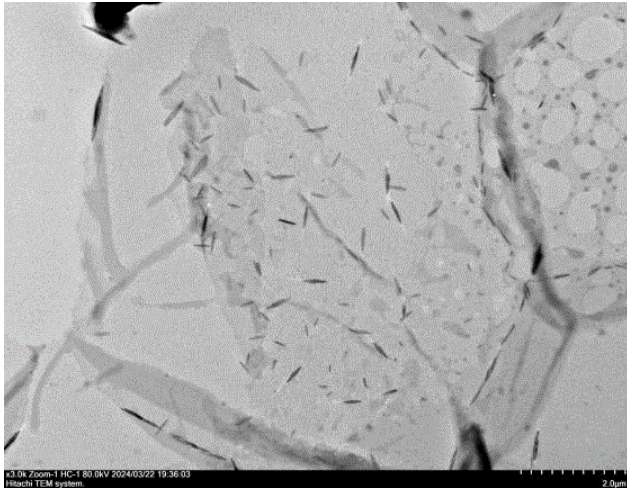
71: Zhengzhou University

72: Li Na, Duan Shaobo, Guo Yizhen, Lin Weiwei, Zhang Zhuangli, Peng Youmei, Shi Jinglu, Cao Qingfeng, Li Jianbo, Yang Yang, Cheng Yuanyuan, Wang Siwen, Si Jiahao, Yang Min

54: NOVEL ULTRASONIC MEDICINE DELIVERY SYSTEM BASED ON CELLULOSE NANOCRYSTALS, PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a novel ultrasonic medicine delivery system based on cellulose nanocrystals, a preparation method and an application thereof, and belongs to the technical fields of ultrasonic molecular imaging and biomedical engineering. Cellulose nanocrystals from different source are used as basic materials to be stirred and centrifuged, and chemotherapy medicines are loaded by electrostatic layer-by-layer self-assembly technology to construct a novel ultrasonic medicine delivery system; and the novel ultrasonic medicine delivery system can realize rapid and accurate medicine delivery in a targeted tumor area under the guidance of external ultrasound, effectively solving the problems that the existing ultrasonic contrast agent has low mechanical tolerance, poor ultrasonic imaging effect, poor targeting of chemotherapy medicines, high toxic and side effects, and the like, and realizing the integration of tumor diagnosis and immunotherapy under the guidance of ultrasound.

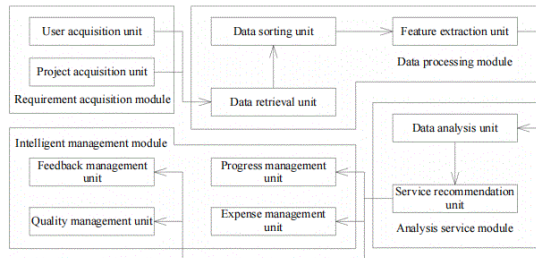
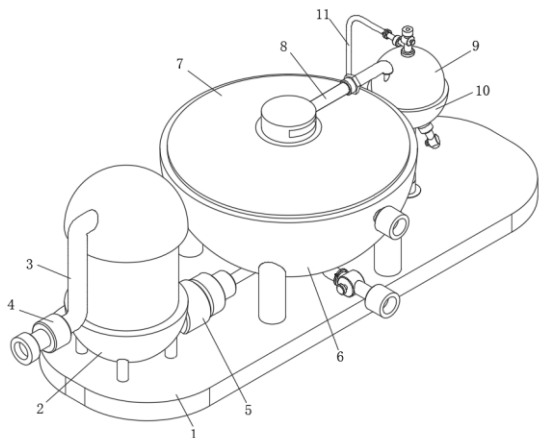


21: 2024/06783. 22: 2024/09/03. 43: 2025/03/10
 51: B01J
 71: SHIVALIK COLLEGE OF ENGINEERING DEHRADUN, Shivasheesh Kaushik, Dr. Satyendra Singh
 72: Shivasheesh Kaushik, Dr. Satyendra Singh
54: COMPOSITION, METHOD AND SYSTEM FOR PREPARING HYBRID NANO FLUID OF DIVERSE NANO MATERIAL

00: -
 A composition, method (200) and system (100) for preparing hybrid nano fluid composition, comprising: a first container (102) for mixing 99.99% of water with 0.005 % each Al₂O₃ and ZnO nano material for obtaining first nanoparticle solution, preparing a second nanoparticle solution by adding 0.005 % each Al₂O₃ and CuO nano material to water; an ultrasonication machine (110) for ultrasonication of the first and second nanoparticle solution separately for obtaining a first and second nanofluid; a second container (104) for mixing 250 gm cetyl cetyl ammonium bromide surfactant powder with 500 ml of ethanol to obtain a first surfactant liquid; a third container (106) for mixing 250 gm tannic acid surfactant powder with 500 ml of ammonia solution to obtain a second surfactant liquid, wherein the first and second surfactant liquid is mixed with the first and second nanofluid solution separately and ultrasonicated for 30hours to obtain hybrid nanofluid.

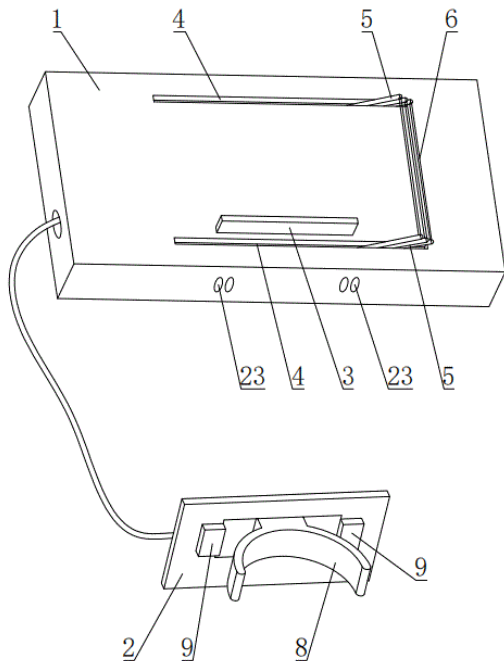
21: 2024/06784. 22: 2024/09/03. 43: 2025/03/10
 51: B01D
 71: ANHUI WATER CONSERVANCY TECHNICAL COLLEGE
 72: JIANG, Hong, CHANG, Xiaohui, AI, Siping, ZHANG, Simei
54: CARBON ENGINEERING EMISSION PROCESSING APPARATUS FOR ENGINEERING CONSTRUCTION

00: -
 Disclosed is a carbon engineering emission processing apparatus for engineering construction. The carbon engineering emission processing apparatus includes a base plate, where an upper end of the base plate is provided with an air collecting tank, a processing mechanism is mounted at a right side of the air collecting tank, a sealing mechanism is mounted at an upper end of the processing mechanism; storing and collecting the exhaust gas through the air collecting tank can implement a temporary storage function of the processing apparatus to the exhaust gas, and implement the timely collection for the exhaust gas generated by the construction engineering, to avoid improper exhaust gas emissions; a lower end of a short pipe is welded with a support rack, so supporting and positioning actions can be provided to a glass spherical shell effectively through the support rack, the exhaust gas is guided by a first air valve in flange connection with an adapter pipe and an input pipe together, a bottom connecting pipe finally guides the exhaust gas into the inside of a direct current pipe, such that a right side of a first piston turns anticlockwise to push the clockwise turning of a left side of a second piston under the push of the air pressure, and the exhaust gas finally enters a calcium hydroxide solution inside a main housing for reaction through air holes.



21: 2024/06801. 22: 2024/09/04. 43: 2025/03/12
 51: G06Q
 71: Henan University of Urban Construction
 72: SHI, Yue
54: SERVICE MANAGEMENT SYSTEM FOR ENGINEERING TECHNICAL CONSULTATION
 00: -
 Disclosed is a service management system for engineering technical consultation, which belongs to the technical field of service management. The service management system for engineering technical consultation includes a requirement acquisition module, a data processing module, an analysis service module and an intelligent management module. The present invention acquires real-time data of the engineering technical consultation, processes the real-time data of the engineering technical consultation, determines feature data of the engineering technical consultation, analyzes the feature data of the engineering technical consultation, recommends engineering technical service personnel for users, and intelligently manages the progress, expenses, feedback and quality of the engineering technical projects, such that comprehensive service can be provided for the engineering technical consultation, good management can be provided for the engineering technical projects, and a service management effect of the engineering technical consultation can be improved.

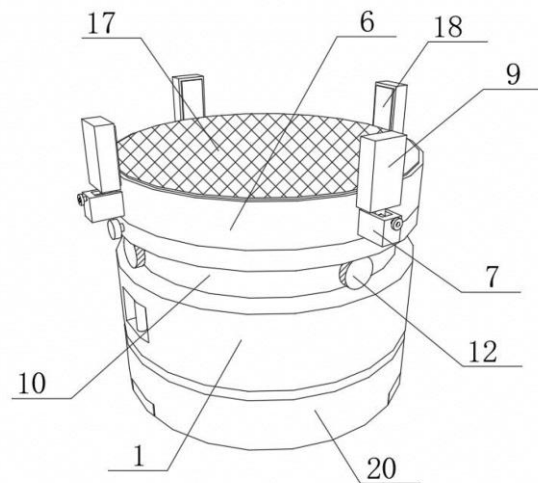
21: 2024/06802. 22: 2024/09/04. 43: 2025/03/12
 51: A47B
 71: MIANYANG TEACHERS' COLLEGE
 72: Wang Jing, Liu Zibo
54: A PIANO SCORE STAND WITH AUTOMATIC PAGE FLIPPING
 00: -
 The present invention discloses a piano score stand with automatic page flipping, comprising a housing. A stopper is fixed on the upper end surface of the housing, and a long strip shaped through groove is opened on the upper end surface of the housing on both sides of the stopper. The stopper and the two through grooves are parallel to the front side surface of the housing; There are multiple sets of flipping rods in the two slots, and each set of flipping rods can rotate relative to the housing in the slots, and the rotation centers of all flipping rods are located on the same axis; Each set of flip bars includes two flip bars located in two through slots. The end of each flip bar away from the rotation center is located above the housing, and there are two thin ropes fixed between the upper ends of the two flip bars in the same group; There is a stepper motor inside the shell and an operating device outside the shell. By changing the rotation direction of the stepper motor through the operating device, the stepper motor drives the flipping lever to rotate clockwise or counterclockwise. This invention solves the problem that existing automatic flipping devices cannot flip back.



21: 2024/06804. 22: 2024/09/04. 43: 2025/03/12
 51: F16M
 71: Yancheng Liuyi Technology Co., Ltd
 72: PAN, Li
 33: CN 31: 2024218513078 32: 2024-08-01
54: ROTATING PLATFORM FOR INDOOR SPACE SURVEYING AND MAPPING INSTRUMENT
 00: -

The present disclosure discloses a rotating platform for an indoor space surveying and mapping instrument. The rotating platform for an indoor space surveying and mapping instrument includes a support cylinder. A motor is installed inside the support cylinder. The top of the support cylinder is inserted with a support rod rotatably connected with the support cylinder. The bottom of the support rod is fixedly connected with an output shaft of the motor. A groove is formed in the left side of the support cylinder. An inner wall of the groove is fixedly connected with a handle. The top of the support rod is fixedly connected with a platform body. The outer side of the platform body is inserted with an annularly distributed sliding plate. According to the rotating platform for an indoor space surveying and mapping instrument, the device can be carried easily through the handle, and then the portability of the device is effectively improved. Moreover, high stability can be provided for surveying and mapping

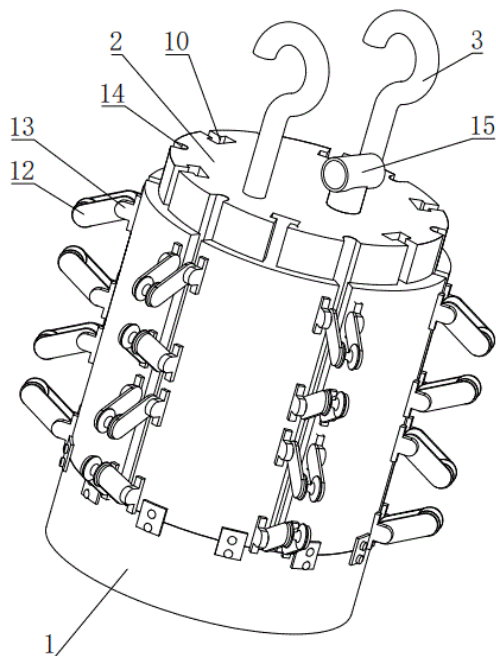
equipment while the surveying and mapping equipment is quickly disassembled from and connected with the platform body, so that the surveying and mapping equipment is effectively prevented from sliding when the surveying and mapping equipment is driven to rotate, and then the practicability of the device is improved.



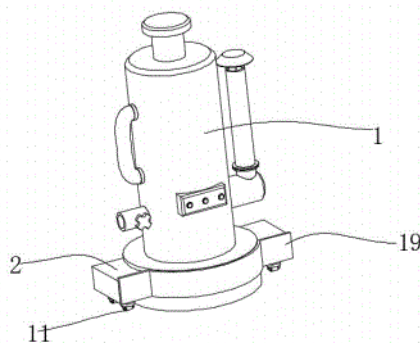
21: 2024/06807. 22: 2024/09/04. 43: 2025/03/12
 51: B08B
 71: Nanyang Haobo Optoelectronics Technology Co., Ltd
 72: Ding Dan, Jiang Ting
54: A BATCH CLEANING DEVICE FOR OPTICAL LENS PROCESSING
 00: -

The present invention discloses a batch cleaning device for optical lens processing, comprising a housing. The housing is a cylindrical barrel with an open upper end and an axis along the vertical direction. A cylindrical block is coaxially arranged inside the housing, and the housing can slide up and down relative to the cylindrical block and cannot be separated from it; The upper end of the cylindrical block is fixed with a hook, and the lower end of the cylindrical block is fixed with a piston. The outer wall of the piston is in contact with the inner wall of the housing, and the bottom surface of the piston has a through-hole that runs through to the top surface of the cylindrical block; There are multiple vertical clearance grooves evenly distributed along the circumference on the outer wall of the shell, and the clearance grooves penetrate the inner wall of the shell. Each clearance groove is equipped with

multiple clamping modules on the outside, which fix the lens in the clearance groove and make one side of the cylindrical block of the lens contact. This invention solves the problem of the influence of the carrying device on the cleaning effect of existing optical lenses during cleaning.



the protein isolation apparatus is required to be carried out outdoors for work, the electric push rods can be turned on to push the rotating wheels to move, so that the universal wheels provided below the support plates can support the protein isolation apparatus and facilitate moving the protein isolation apparatus.



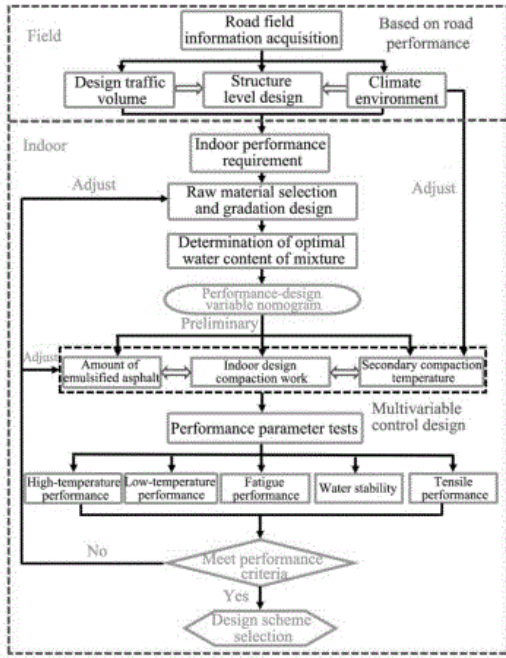
21: 2024/06842. 22: 2024/09/05. 43: 2025/03/12
 51: A23J
 71: Anhui Science And Technology University, Anhui Province Fengyang County Yushang Oil Co., Ltd.
 72: LI, Peiyan, MA, Youshui, DU, Wei, LI, Dan, WANG, Xinyi, YAN, Han, HE, Miao, JIN, Tiantian, ZHAO, Ruohan, CHEN, Shengwei, MA, Manting
 33: CN 31: 202323385244.X 32: 2023-12-13
54: PROTEIN ISOLATION APPARATUS FOR EXTRACTING PROTEINS FROM SESAME SEED MEAL

00: -
 The present invention relates to a protein isolation apparatus for extracting proteins from sesame seed meal, including a protein isolation apparatus. A support seat is provided on the bottom of the protein isolation apparatus, electric push rods are provided in the support seat, a mounting frame is provided at an end of each of the electric push rods, a rotating wheel is provided in the mounting frame, a lifting wheel is provided in a support plate, and universal wheels are provided below the support plate. When

21: 2024/06843. 22: 2024/09/05. 43: 2025/03/12
 51: C04B
 71: CHINA FIRST HIGHWAY ENGINEERING CO., LTD., CCCC FIRST HIGHWAY FIFTH ENGINEERING CO LTD
 72: HAN, Zhanchuang, WANG, Yuguo, LI, Wei, GUO, Qingyang, ZHAO, Mingjie, CHEN, Pengfei, WANG, Shaoyong, LIU, Tian
 33: CN 31: 202410494236.9 32: 2024-04-23
54: DESIGN METHOD OF COLD RECYCLED MIXTURE CONSIDERING MULTIVARIABLE COMBINATION

00: -
 The present invention provides a design method of a cold recycled mixture considering a multivariable combination, relating to the technical field of road engineering. Indoor performance requirements of the cold recycled mixture are first determined according to road field information and pavement structure design requirements. Then, old recycled materials of asphalt pavement (RMAPs) are sampled and analyzed, the gradation of the cold recycled mixture is designed, and an optimal water content is determined. Later, the indoor compaction work, the amount of emulsified asphalt, and the indoor secondary compaction temperature are taken as design variables, and an indoor multivariable combination scheme is preliminarily selected using a "performance-design variable" nomogram. Finally, verification is performed until the performance criteria are met. More consideration is given to

actual field information, giving full play to the potential value of the cold recycled mixture, making the design more scientific and reasonable, and significantly improving the performances.



21: 2024/06844. 22: 2024/09/05. 43: 2025/03/12
51: A23B

71: Huixue Zhao
72: Huixue Zhao

54: METHOD FOR COLOR FIXATION AND PRESERVATION OF SWEET POTATOES

00: -
A method for color fixation and preservation of sweet potatoes comprises the following steps: S1, preliminary selection of sweet potatoes; S2, drying of sweet potatoes; S3, application of color fixation and antistaling agents; S4, storage. Sweet potatoes can be stored for a long time using this method, have no difference from fresh ones in color, taste, and nutrition, and maintain the original color and flavor, with simple operation, good preservation effects, long preservation time, and low cost. Sweet potatoes that are color-fixed and preserved by the method do not contain any harmful substances to the human body and have high food safety performance.

21: 2024/06846. 22: 2024/09/05. 43: 2025/03/12
51: F41A

71: CESKA ZBROJOVKA A.S.
72: MALINA, Jaroslav
33: CZ 31: PV 2022-208 32: 2022-05-19
54: ASSEMBLY OF A RECEIVER WITH A BARREL

00: -
An assembly of a receiver (1) with a barrel (4) wherein the barrel (4) is inserted into a barrel hole (7) in the receiver (1) and is attached in a replaceable manner by means of a clamping connection that comprises a longitudinal slot (2) that longitudinally divides the receiver (1) wall in the insertion location of the barrel (4). In the location of the longitudinal slot (2) at least two transversal screws (3) pass through the receiver (1). In the location of the longitudinal slot (2), a transversal hole (5) extends into the receiver (1) and a transversal pin (10) passes through the transversal hole (5) in such a way that the transversal pin (10) reaches into a corresponding transversal recess (9) in the barrel (4). Perpendicularly to the longitudinal axis of the transversal pin (10) a threaded hole (11) with a connecting screw (12) passes through the transversal pin (10). The connecting screw (12) further passes through a straight-through hole (6) in the receiver (1) and through a stock/frame (13) of the firearm to connect the receiver (1) to the stock/frame (13) of the firearm.

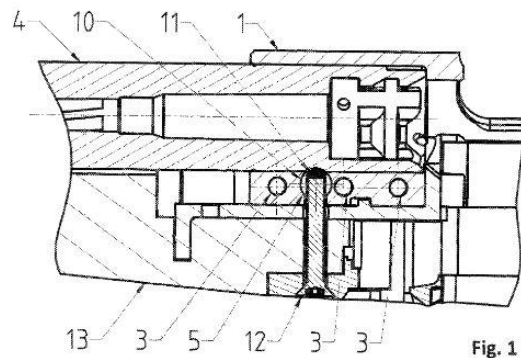


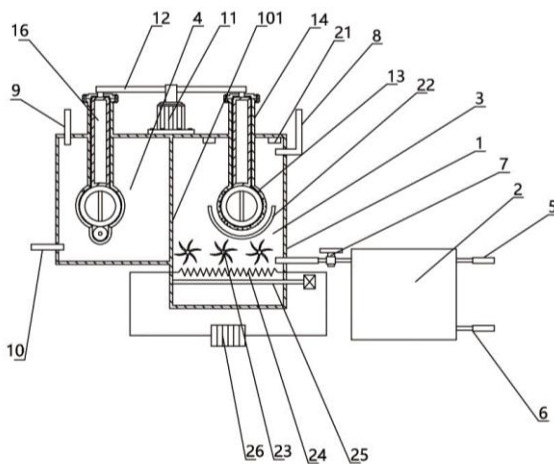
Fig. 1

21: 2024/06873. 22: 2024/09/06. 43: 2025/03/12
51: C02F

71: Shihezi University
72: Qu Wenying, Ma Chengxiao
54: A MICROALGAE TREATMENT WASTEWATER PHOTOBIOREACTOR WITH AUTOMATIC ADJUSTABLE SCRAPING WALL

00: -

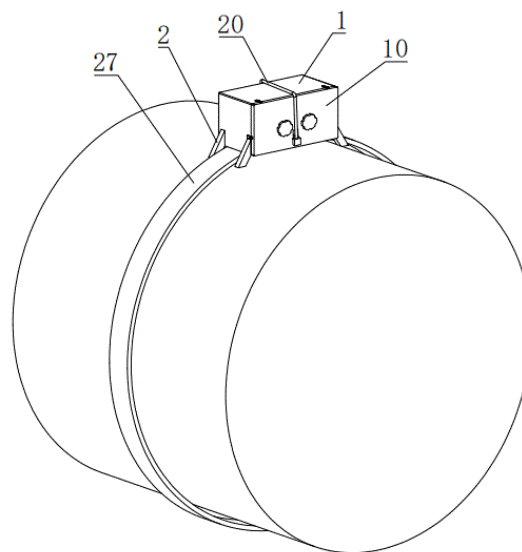
The present invention relates to a microalgae treatment wastewater photobioreactor with automatic adjustable scraping walls, comprising a wastewater treatment tank and a sedimentation tank. The wastewater treatment tank is composed of a microalgae reaction tank and a microalgae storage tank. A circular pipe is set in the middle of the wastewater treatment tank, and a connecting ring is rotatably sleeved inside the circular pipe. The lower edge of the connecting ring is fixedly connected to the partition plate, and both sides of the partition plate are rotatably sleeved with rotating rings. A support rod is fixed inside the rotating ring, and a scraper is fixed on the support rod; Using the adjustment motor to drive the adjustment turntable to rotate and move the adjustment partition, adjusting the position of the rotating ring inside the circular tube, driving the wheel to drive the rotating ring to rotate, and driving the scraper to rotate, scraping off the microalgae attached to the partition and recycling them into the microalgae storage tank; Until the concentration of microalgae between adjacent partitions reaches equilibrium with the microalgae concentration in the microalgae storage tank; Discharge into the microalgae storage tank through a dilution tube, dilute the concentration of microalgae in the tank, and achieve the recycling and cultivation of microalgae.



21: 2024/06874. 22: 2024/09/06. 43: 2025/03/12
 51: B24B
 71: Jiangsu Tiejun Software Technology Co., Ltd,
 Nantong Institute of Technology
 72: Huang Lujian, Wu Xu, Xue Jun, Song Juan

54: AN AUXILIARY DEVICE FOR INSULATION PIPELINE CONSTRUCTION

00: -
 The present invention discloses an auxiliary device for insulation pipeline construction, comprising a shell, an opening below the shell, a support column fixed on the outer side of the shell, two motors at the top of the inner cavity of the shell, a small gear on the output shaft of the motor, two rotating shafts along the front and rear directions below the motor, a drum on the rotating shaft, and a large gear on the rotating shaft behind the drum. The two small gears mesh with the two large gears respectively; There are two rollers with axes running in the front to back direction below the drum, and a pressure roller with an axis running in the front to back direction between the two rollers. Both the rollers can rotate around their own axes inside the shell, and the pressure roller can slide up and down inside the shell and always receive downward sliding force. When the pressure roller is located at the bottom dead center of the sliding path, it contacts and presses against the two rollers. When the pressure roller is located at the top dead center of the sliding path, it separates from the two rollers. This invention solves the problem that workers cannot polish the bottom of the pipeline in place and cannot guarantee the polishing effect with handheld grinders at present.



21: 2024/06875. 22: 2024/09/06. 43: 2025/03/12
 51: A22B

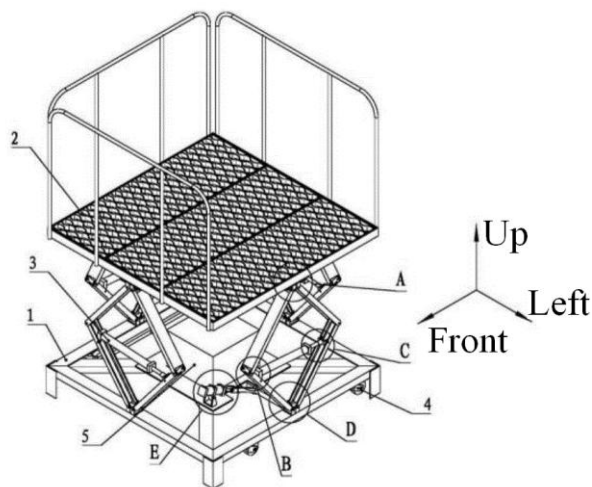
71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, Anchee (Shandong) Animal Nutrition Research Institute Co., Ltd.

72: GUO Jianfeng, DU Yushi, LIU Xiaohui, LIN Haichao, WANG Ran, ZHAO Xueyan, WANG Huaizhong, LIAO Yuxue

54: MOVABLE LIFTING WORKING PLATFORM OF SLAUGHTER

00: -

The invention discloses a movable lifting working platform of slaughter, the working platform includes a base and a workbench, where a lifting mechanism is arranged between the base and the workbench, and a moving mechanism is arranged at the lower side of the base. The base is in a square frame structure, and the upper side of the base is provided with a oil tank mounting plate located at the geometric center for installing the oil tank. The workbench includes a collecting tray, a plurality of supporting plates are arranged in the collecting tray, and the supporting plates include a frame; a plurality of strip-shaped corrugated plates forming a net structure are sequentially arranged in the frame, and the upper end surfaces of the corrugated plates are serrated. The lifting mechanism includes four lifting units, where the lifting units include a first upper support body, a second upper support body, a second lower support body and a first lower support body that are sequentially hinged at the beginning and end; and the working platform is not only lifted backward, but also moved horizontally, and has good anti-slip effect.



21: 2024/06876. 22: 2024/09/06. 43: 2025/03/12

51: A01G

71: Sanya Institute of Hainan Academy of Agricultural Sciences(Hainan Experimental Animal Research Center), Institute of Vegetables, Hainan Academy of Agricultural Sciences

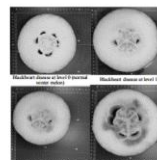
72: LIAO, Daolong, WANG, Jing, CHEN, Yisong, YOU, Zhicong, LIU, Zifan, MI, Baobin, YUN, Tianhai, ZHANG, Baige

33: CN 31: 202311149625.X 32: 2023-09-07

54: METHOD FOR CONTROLLING BLACKHEART DISEASE OF WAX GOURD

00: -

The present invention relates to a method for controlling a blackheart disease of a wax gourd. The method includes variety selection, planting soil treatment, nutrient management, chemical regulation, etc., so that the technology for controlling the blackheart disease of the wax gourd is formed by combining early prevention and late regulation. In the variety selection, wax gourd varieties having different fruit lengths are selected separately in combination with local planting temperature features. Accordingly, occurrence of widespread "blackheart disease" of the wax gourd caused by a sub-low temperature in a stage of fruit development is avoided. Through acid adjustment and soil improvement, a pH of planting soil is increased by means of an alkaline organic fertilizer. Targeted top-dressing is performed in different growth stages of the wax gourd, and a ratio of all elements used during top-dressing is limited.



21: 2024/06878. 22: 2024/09/06. 43: 2025/03/12

51: A01K

71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, Anchee (Shandong) Animal Nutrition Research Institute Co., Ltd.

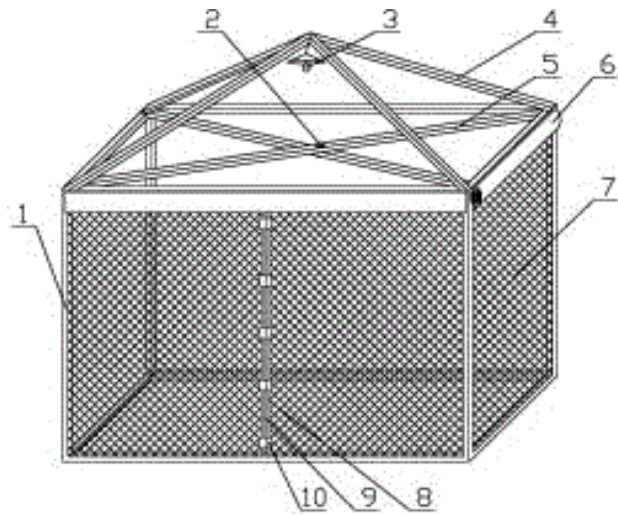
72: GUO Jianfeng, DU Yushi, XIE Qingzhu, LIN Haichao, ZHAO Xueyan, LIAO Yuxue, WANG Huaizhong, WANG Ran

54: SAFETY PROTECTION FACILITY FOR LACTATING PIGS

00: -

The invention belongs to the technical field of auxiliary equipment for animal husbandry, in

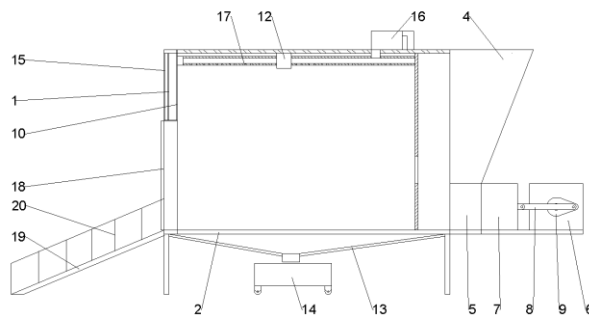
particular to a safety protection facility for lactating pigs, which includes a device body, where the device body is a cuboid frame, and a quadrangular pyramid frame is fixedly arranged at the top, the bottom surface of the quadrangular pyramid frame is overlapped with the top surface of the cuboid frame, the side surfaces of the quadrangular pyramid frame are fixedly provided with sealing and covering devices, the side surfaces of the cuboid frame are fixedly provided with air-permeable protective devices, and at least one air-permeable protective device is provided with an opening. And the openings are connected together through a movable connecting structure; two diagonal lines on the top surface of the cuboid frame are fixedly provided with stabilizing rods, and the two stabilizing rods are fixedly connected together at the intersection through fixing pieces; the top of the side surface of the cuboid frame is provided with a thermal insulation shutter, and the thermal insulation shutter is arranged outside the air-permeable protective device; a lighting device is fixedly arranged at the top of the inner side of the quadrangular pyramid frame. The invention is easy to install, move and place, and has low cost and strong practicability.



21: 2024/06879. 22: 2024/09/06. 43: 2025/03/12
 51: A01K
 71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, Anchee (Shandong) Animal Nutrition Research Institute Co., Ltd.
 72: GUO Jianfeng, DU Yushi, ZHAO Xueyan, LIU Xiaohui, LIN Haichao, LIAO Yuxue, WANG Ran, WANG Huaizhong

54: BREEDING BOX FOR BREEDING OF HOG
 00: -

The invention discloses a breeding box for breeding of hog, and the breeding box includes a box body, where a dung leakage plate is fixedly connected at the bottom opening of the box body, an automatic feeding mechanism is arranged at one side of the box body, a heating and heat preservation mechanism is arranged in the box body, the side of the box body opposite to the automatic feeding mechanism is provided with an outlet, and the outlet is detachably connected with a baffle; the automatic feeding mechanism includes a discharge hopper fixedly connected to one side of the box body, where the top end and the bottom end of the discharge hopper are both provided with openings, and the bottom end of the discharge hopper is provided with a trough, the top end opening of the trough has the same horizontal section as the bottom end opening of the discharge hopper, the trough is in sliding contact with the bottom end opening of the discharge hopper, one side of the box body is provided with a feed inlet, the trough is slidably connected in the feed inlet, and the trough is drivingly connected with a feeding motor, and the feeding motor is electrically connected with an external controller; the top of the box body is provided with a monitoring camera, the monitoring camera is electrically connected to an external display. In the invention, the function of automatic feeding is realized, and the workload of workers is reduced.

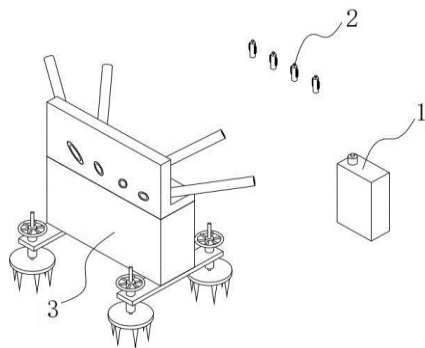


21: 2024/06880. 22: 2024/09/06. 43: 2025/03/12
 51: E21F
 71: Henan University of Urban Construction
 72: Fangchao Lu, Yiju Tang, Yifang Wang, Jingjing Liu, Bing Jia, Quan Ma, Junwei Zhang, Junli Jia, Pengbo Li, Kangyi Chen

54: AN INTEGRATED EARLY WARNING DEVICE FOR MINE DYNAMIC DISASTERS BASED ON NUCLEAR MAGNETIC RESONANCE

00: -

This invention discloses an integrated early warning device for mine dynamic disasters based on the principle of nuclear magnetic resonance. The integrated early warning device for mine dynamic disasters, based on nuclear magnetic resonance, includes: a main unit, a low-field nuclear magnetic resonance miniaturized sensor, and a borehole positioning mechanism; the main unit is connected to the low-field nuclear magnetic resonance miniaturized sensor; the borehole positioning mechanism includes a casing, with an L plate installed on top of the casing, and multiple guide tubes sequentially mounted on the L plate according to the orientation of the drilling holes. The integrated early warning device for mine dynamic disasters based on nuclear magnetic resonance, as provided by this invention, includes a borehole positioning mechanism comprising a casing, L plate, guide tubes, and a support plate. By using the guide tubes to direct the drill rod, the drill rod drills in a designated direction, resulting in a smaller deviation between the actual angle of the monitoring drilling and the theoretical angle. This helps to distribute the low-field nuclear magnetic resonance miniaturized sensors more evenly, thereby improving the accuracy of monitoring results.



21: 2024/06881. 22: 2024/09/06. 43: 2025/03/12

51: E21F

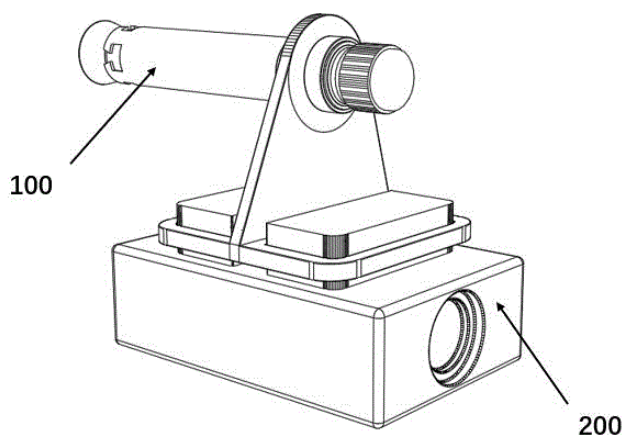
71: Henan University of Urban Construction

72: Fangchao Lu, Yiju Tang, Yifang Wang, Sheng Liu, Quan Lou, Yuxin Xue, Yating Nie, Yan Rui, Jia Cheng, Chaoyang Yan

54: A MINING-INDUCED WATER INRUSH EARLY WARNING DEVICE UTILIZING NUCLEAR MAGNETIC RESONANCE TECHNOLOGY

00: -

This invention discloses a mining-induced water inrush early warning device using nuclear magnetic resonance technology. The device includes an installation mechanism and a survey mechanism, with the survey mechanism positioned on the installation mechanism. The installation mechanism consists of an outer cylinder, which houses a core rod. One end of the core rod is an enlarged end with a larger diameter, positioned outside the outer cylinder. Several slots are located on the side of the outer cylinder near the enlarged end, and a handwheel is situated on the opposite side. The mining-induced water inrush early warning device provided by this invention employs the installation mechanism to effectively mount the survey mechanism on the inner walls of rock layers. Additionally, the outer cylinder is made of elastic stainless steel material. By turning the handwheel in reverse, the expanded end of the outer cylinder returns to its original state, allowing the outer cylinder to be removed from the drill hole and reused multiple times.



21: 2024/06882. 22: 2024/09/06. 43: 2025/03/12

51: A61K

71: Xinjie Ming

72: Xinjie Ming, Xinyue Ming, Xinhui Ming, Lide Ming, Lizhao Ming, Chaoge Ming

54: A TRADITIONAL CHINESE MEDICINE LINIMENT FOR TREATING JOINT PAIN AND A PREPARATION METHOD THEREOF

00: -

The invention discloses a traditional Chinese medicine liniment for treating joint pain and a preparation method thereof. The liniment of the invention is made of seventeen pure Chinese herbs,

which are raw materials, such as herba siphonostegiae, trberculate speranskia herb, herba lycopodii, dioscoreae nipponicae rhizoma, wooly datchmanspipe herb, Chinese clematis root, myrrh, radix angelicae pubescentis, notopterygium root, herba siegesbeckiae (herb prepared with wine), hematoxylon, safflower carthamus, daemonorops draco, little multibanded krait, cassia twig, folium artemisiae argyi, borneol. The liniment of the invention is a non-toxic liquid with simple production process and low cost. It is easy to save, carry and use, has a wide range of symptoms, can be used for a variety of muscle and bone pain people, the treatment effect is good. In addition, the liniment of the invention has basically no allergic reaction, no irritating reaction to the skin, and no toxic side effects to the viscera and organs. After more than 1000 clinical patients verified, its cure rate of more than 85%, the effective rate of 100%, no case is to prove that this drug is ineffective.

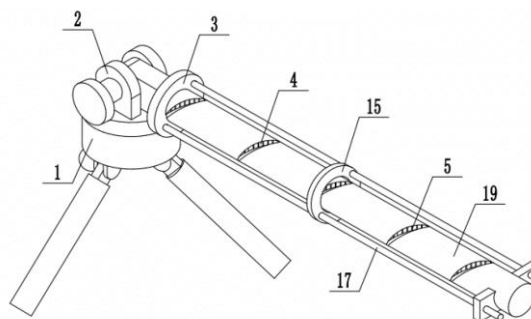
21: 2024/06904. 22: 2024/09/09. 43: 2025/03/13
51: H04N

71: Anqing Normal University
72: HU, Haoran, XIE, Shaoguo

54: GRAPHIC IMAGE PROCESSING PLATFORM

00: -

Disclosed is a graphic image processing platform. The graphic image processing platform includes a tripod, where a hinged seat is fixedly arranged at a top of the tripod, a connecting seat is hinged on the hinged seat, and a cylindrical supporting rod is arranged on the connecting seat. Double spiral sliding grooves are formed on the supporting rod, and toothed grooves are formed on wall surfaces on one sides of the sliding grooves. The supporting rod is internally provided with a mounting plate and a limiting structure, the mounting plate is provided with a driving device and a transmission shaft, and two ends of the transmission shaft can extend out of the sliding grooves. Gears are fixedly arranged on the transmission shaft, and the gears can mesh with the toothed grooves. A bracket is arranged outside the supporting rod, an image scanning device is fixedly arranged on the bracket.



21: 2024/06936. 22: 2024/09/10. 43: 2025/03/14
51: G01N

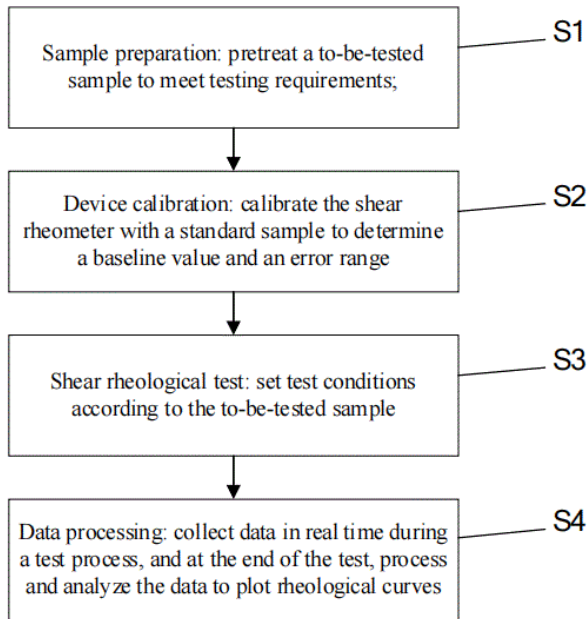
71: Suzhou University

72: Haitao Fu, Jianxiu Hao, Mengyuan Dun, Ligang Zhang

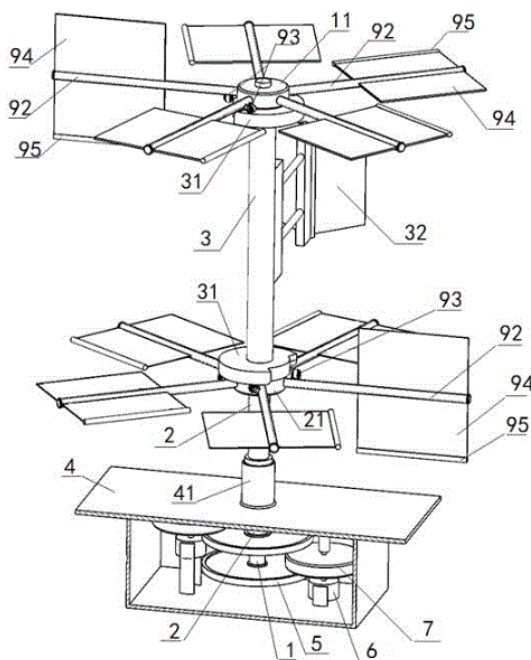
54: METHOD AND SYSTEM FOR DETECTING POLYMER COMPOSITE MATERIAL BASED ON SHEAR RHEOMETER

00: -

The present disclosure relates to the technical field of data processing, and discloses a method and system for detecting a polymer composite material based on a shear rheometer. The method includes the following steps: sample preparation: pretreating a to-be-tested sample to meet testing requirements; device calibration, calibrating the shear rheometer with a standard sample to determine a baseline value and an error range; shear rheological test: setting test conditions according to the to-be-tested sample; and data processing, collecting data in real time during a test process, and at the end of the test, processing and analyzing the data to plot rheological curves. The method and system for detecting the polymer composite material based on the shear rheometer provided by the present disclosure allow for testing under various temperatures and shear rates, providing a comprehensive understanding of rheological behaviors of the material, including parameters such as shear viscosity, apparent viscosity, yield stress, and relaxation time, thus offering a scientific basis for the design, preparation, and application of the material.



vanes on one side of the vane swinging mechanism are perpendicular to a wind direction, the vanes on the other side thereof are parallel to the wind direction, a torque difference value obtained on the shaft is the maximum, the notches in the upper vane guiding disc and the lower vane guiding disc are symmetrically oriented from left to right, under a wind action, the upper vane frame drives the inner vertical shaft to make a clockwise rotation, the lower vane frame drives the intermediate cylinder shaft to make an anticlockwise rotation, and the inner vertical shaft and the intermediate cylinder shaft are inserted into the power generation mechanism.



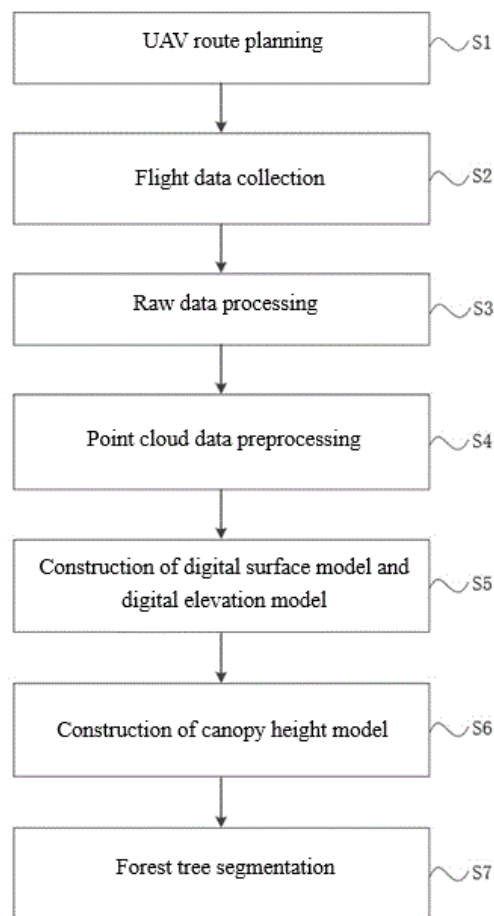
21: 2024/06941. 22: 2024/09/10. 43: 2025/03/14
 51: F03D
 71: Shipu Zhang, Sylvia Chang, Shoufeng Zhang, Shouyi Zhang
 72: Shipu Zhang, Sylvia Chang, Shouyi Zhang, Shoufeng Zhang, Yu Liu, Linhao Xie
 33: CN 31: 202322470613.9 32: 2023-09-12
54: LARGE-TORSION VERTICAL-AXIS DOUBLE-REVERSE WIND ENERGY CONVERSION APPARATUS

00: -
 The utility model discloses a large-torsion vertical-axis double-reverse wind energy conversion apparatus, and belongs to the technical field of wind power generation. An intermediate cylinder shaft sleeves an inner vertical shaft, a lower portion of the intermediate cylinder shaft is positioned in an upright sleeve of a power generation mechanism, an upper vane frame is arranged at a top end of the inner vertical shaft, a lower vane frame is arranged on the intermediate cylinder shaft, vane swinging mechanisms are arranged on the upper vane frame and the lower vane frame, a vane guiding mechanism sleeves the intermediate cylinder shaft, guiding trailers are mounted on a side wall of the vane guiding mechanism, vane guiding discs are arranged on upper and lower ends of the vane guiding mechanism, a notch for driving vanes to swing is formed in each of the vane guiding discs, the vane guiding discs are arranged, such that the

21: 2024/06942. 22: 2024/09/10. 43: 2025/03/14
 51: G06T
 71: Hainan Academy of Forestry (Hainan Academy of Mangrove)
 72: Jinrui LEI, Zongzhu CHEN, Yiqing CHEN, Tingtian WU, Xiaohua CHEN, Yuanling LI, Xiaoyan PAN, Wei LIN
 33: CN 31: 2024110593986 32: 2024-08-03
54: FOREST INFORMATION EXTRACTION METHOD BASED ON UNMANNED AERIAL VEHICLE AND LASER RADAR

00: -
 The present invention discloses a forest information extraction method based on unmanned aerial vehicles and laser radar, including unmanned aerial vehicle route planning, flight data collection, raw

data processing, point cloud data preprocessing, digital surface model and digital elevation model construction, canopy height model construction and forest single tree segmentation steps. The present invention utilizes unmanned aerial vehicle technology and laser radar technology, and the flight height of the unmanned aerial vehicle is flexible and controllable, and can achieve large-scale rapid scanning, especially in complex terrain or dense vegetation areas that are difficult to enter, and can also obtain high-quality observation data; the present invention can not only obtain DSM, DEM and CHM data, but also obtain detailed information such as the number, position and height, canopy width of trees through single tree segmentation, effectively extract forest information, and provide multi-dimensional support for forest management and protection, which is particularly suitable for the reconstruction of forest three-dimensional models; the forest information extracted by the present invention is high in accuracy and good in effect.



21: 2024/06945. 22: 2024/09/10. 43: 2025/03/14
51: C07C

71: Hunan Cancer Hospital (The Affiliated Cancer Hospital of Xiangya School of Medicine, Central South University)

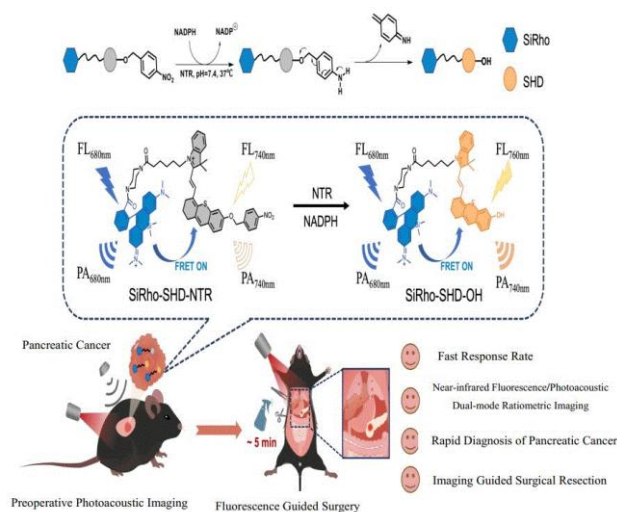
72: Lemeng Zhang, Hongwen Liu, Cong Hu, Xinglong Chen

54: NIRF/PA DUAL-MODAL PROBE BASED ON NTR RESPONSE AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

A NIRF/PA dual-modal probe based on NTR response and preparation method and application thereof, belonging to the field of bio-medicine technology. The NIRF/PA dual-mode probe based on NTR response can quickly respond to NTR, with response saturation in about 5 minutes; it has good selectivity for nitroreductase and high sensitivity; the probe absorbs and emits in the near-infrared, which can effectively overcome biological background signal interference; the probe is a fluorescence/photoacoustic dual-modal ratio probe,

which can realize self-correction during the imaging process of biological systems and improve imaging accuracy; the probe realizes near-infrared fluorescence/photoacoustic dual-modal ratio imaging of mouse pancreatic cancer tumors, which reflects the clinical application prospects of imaging-mediated pancreatic cancer tumor surgery of the invention.



21: 2024/06972. 22: 2024/09/11. 43: 2025/03/14
51: B01J

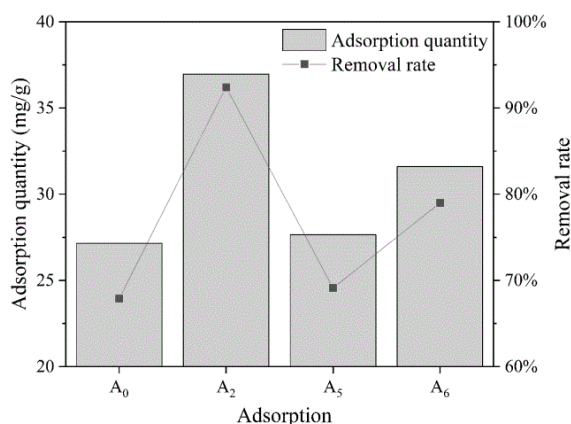
71: Shihezi University

72: Jiankang WANG, Hong XU, Yaru WANG, Xin LIU, Qingyuan TIAN, Chang ZHOU, Shanshan MA

54: PREPARATION METHOD FOR BIMETALLIC IRON-BASED CHITOSAN ADSORBENT AND APPLICATION OF REMOVING AS(III) IN WATER

00: -
The invention discloses a preparation method for bimetallic iron-based chitosan adsorbent and an application of removing As(III) in water. Including the following steps: (1) The chitosan powder is dissolved in acetic acid solution, and continuously stirred until completely dissolved to obtain a pale yellow chitosan solution; (2) the mixed solution of metal ions (iron-lanthanum, iron-zirconium, iron-manganese mixed solution) is poured into the chitosan solution, and the metal ion/chitosan mixture is obtained by continuously stirring for 0.5-1 h; (3) the precipitation agent is slowly added to the metal ion/chitosan mixture to precipitate the chitosan until the pH of the mixture is 7.0 ± 0.1 , and the chitosan suspension is obtained; (4) the suspension obtained by Step (3) is continuously stirred for 1.5 h with a stirrer; (5) the suspension after stirring is placed in a water bath at

60 °C for 24 h; (6) after the water bath, the suspension is centrifuged, and the supernatant is poured to obtain the chitosan precipitate, after the precipitate is washed three times, it is freeze-dried for 24 h, grinded into powder and passed through a 200-mesh sieve to obtain a bimetallic iron-based chitosan adsorbent. The bimetallic iron-based chitosan adsorbent prepared by the invention has stronger adsorption capacity for As(III) than the iron-based chitosan adsorbent, and the preparation method is simple, the material is easy to obtain and has a wider application potential.



21: 2024/06973. 22: 2024/09/11. 43: 2025/03/14
51: G05B

71: Shihezi University

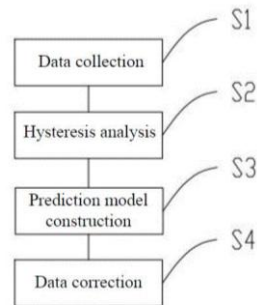
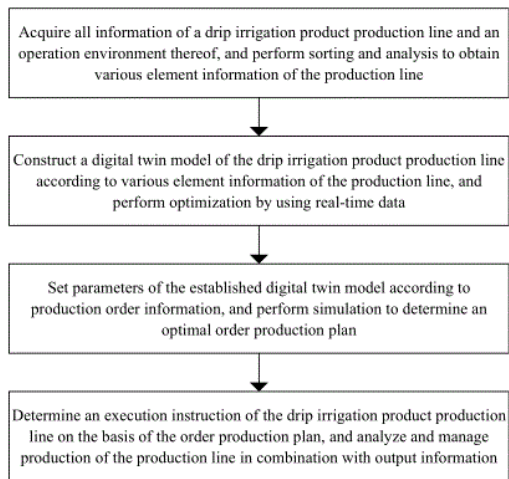
72: LI, Zhigang, NIU, Renzhong, LI, Pengbo, WEI, Zhangliang, JIN, Peilin, ZHAO, Xiaohui, CHEN, Kailiang

54: MANAGEMENT METHOD BASED ON DIGITAL TWIN MODELING FOR DRIP IRRIGATION PRODUCT PRODUCTION LINE

00: -
Specifically disclosed in the present invention is a management method based on digital twin modeling for a drip irrigation product production line, which belongs to the technical field of production line management. The method includes: S1, acquiring all information of the drip irrigation product production line and an operation environment thereof, and performing sorting and analysis to obtain various element information of the production line; S2, constructing a digital twin model of the drip irrigation product production line according to various element information of the production line, and performing

optimization by using real-time data; and S3, setting parameters of the established digital twin model according to production order information, and performing simulation to determine an optimal order production plan.

Drawings



21: 2024/06975. 22: 2024/09/11. 43: 2025/03/14
51: G06F

71: Henan University of Urban Construction
72: LI, QiuHong, LI, Deying, CAI, Jing

54: METHOD AND APPARATUS FOR PROCESSING HYSTERESIS DATA

00: -
Disclosed is a method and apparatus for processing hysteresis data in the technical field of data processing methods. In this method, communication data from different data sources are collected in real time, and a generation time and receiving time of the data are recorded for subsequent hysteresis analysis. Hysteresis analysis is performed on the collected communication data to calculate a time difference of the data from generation to receiving, i.e. hysteresis time. According to length of the hysteresis time, the data is divided into different levels to provide the basis for subsequent processing. Based on historical hysteresis data, a prediction model is constructed to predict the hysteresis time of future data. According to a prediction result of the prediction model, the data to be received is subjected to advance or delay processing. At the same time, the received hysteresis data is corrected.

21: 2024/06976. 22: 2024/09/11. 43: 2025/03/14
51: A01B

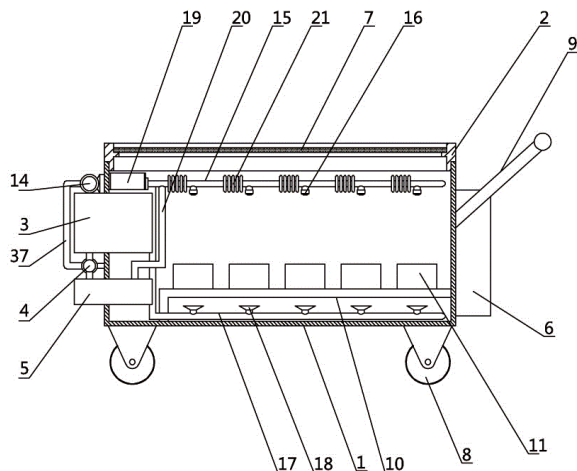
71: Suzhou University

72: Qiu Husen, Liu Jieyun

33: CN 31: 202311427284 .8 32: 2023-10-31

54: A CONVENIENT OUTDOOR SOIL CULTIVATION DEVICE FOR REGULATION

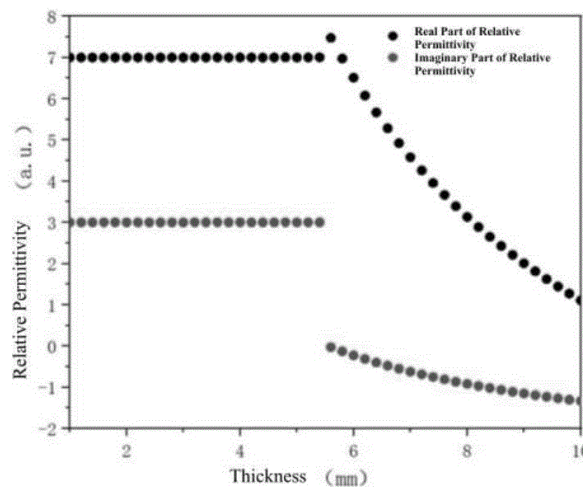
00: -
The present invention relates to an outdoor soil cultivation device that is easy to regulate, comprising a cultivation box, a sterilization box, a pressure regulating cylinder, a water storage box, and a control box. A tray is provided near the lower side of the cultivation box, and soil cultivation dishes are evenly distributed on the upper side of the tray; The present invention achieves the reuse of deionized water by recycling it from the incubator and sterilizing it in a sterilization chamber to ensure water quality. The water in the storage tank is pressurized into a regulating tube through a water supply pipe to regulate soil moisture. External air is drawn into the incubator through an air pump, blown into the soil culture dish through a nozzle on the regulating tube, and then discharged through a drainage outlet to achieve gas circulation inside the incubator and maintain the balance of oxygen and carbon dioxide content inside the incubator; Adjust the temperature inside the incubator using the combination of heating tubes and semiconductor refrigeration chips.



21: 2024/06977. 22: 2024/09/11. 43: 2025/03/14
 51: G01N
 71: THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY (GUANGZHOU)
 72: Xiaoxiao Wu, Haitao Li
 33: CN 31: 2024101017681 32: 2024-01-25
54: METHOD FOR EXTRACTING ELECTROMAGNETIC PARAMETERS OF MATERIALS BASED ON MACHINE LEARNING GRADIENT DESCENT ALGORITHM

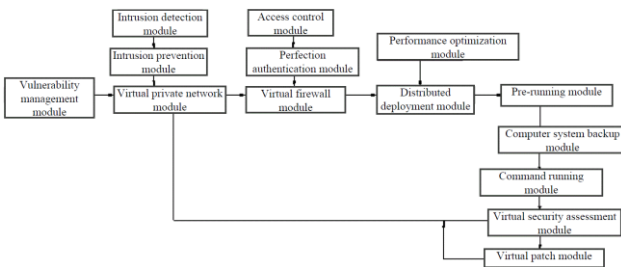
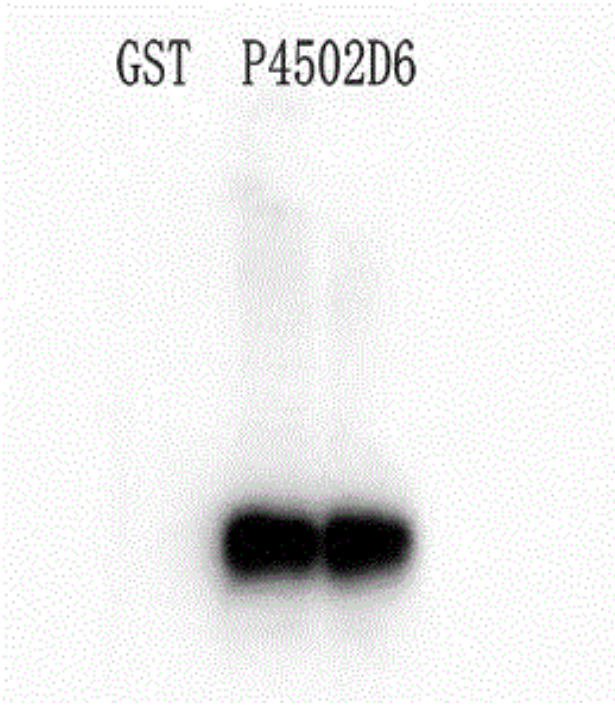
00: -
 The invention provides a material electromagnetic parameter extraction method based on a machine learning gradient descent algorithm, comprising the following steps: S1. obtaining the electromagnetic wave transmittance of the sample to be tested; S2. obtaining the refractive index and the electromagnetic wave impedance expressions of the sample to be tested based on the principle of electromagnetic waves; S3. obtaining the transmittance function based on the electromagnetic wave vector, the complex dielectric constant, the refractive index and the electromagnetic wave impedance; S4. obtaining the loss function based on the transmittance function and the transmittance in step S1; S5. using the loss function of machine learning gradient descent algorithm to solve the complex dielectric constant of the sample to be tested. The electromagnetic parameter inversion calculation method of the invention is based on the most critical gradient descent concept in the field of artificial intelligence. This algorithm is different from the NRW method based on algebraic operations and can be compared with the combination of deep

learning and neural networks enables more flexible operations. Secondly, the NRW algorithm needs to measure the transmittance and reflectivity of the sample, while this method only requires one parameter: transmittance. In addition, this method can still work normally for oblique incidence.



21: 2024/06978. 22: 2024/09/11. 43: 2025/03/14
 51: G01N
 71: Jilin Jiming Biotechnology Co., LTD
 72: Liu Zongming, Liu Siyu, Fu Yao, Ma Fangyan
 33: CN 31: 202410332714.6 32: 2024-03-22
54: KIT FOR DETECTING CYTOCHROME P4502D6 METABOLIC ENZYME AND APPLICATION THEREOF

00: -
 The present invention relates to a kit for detecting a cytochrome P4502D6 metabolic enzyme and an application thereof. In the present invention, a monoclonal antibody specifically targeting P4502D6 is prepared and obtained using P4502D6 as an immunogen. The monoclonal antibody P4502D6-3H5 has good specificity and affinity, and can be effectively used for the detection of P4502D6 after being prepared into an enzyme-linked immunosorbent assay (ELISA) detection kit, which has a good application prospect.



21: 2024/06979. 22: 2024/09/11. 43: 2025/03/14
 51: H04L
 71: Jilin Sport University
 72: Jiang Hongwei

54: COMPUTER NETWORK SECURITY SYSTEM BASED ON VIRTUALIZATION TECHNOLOGY

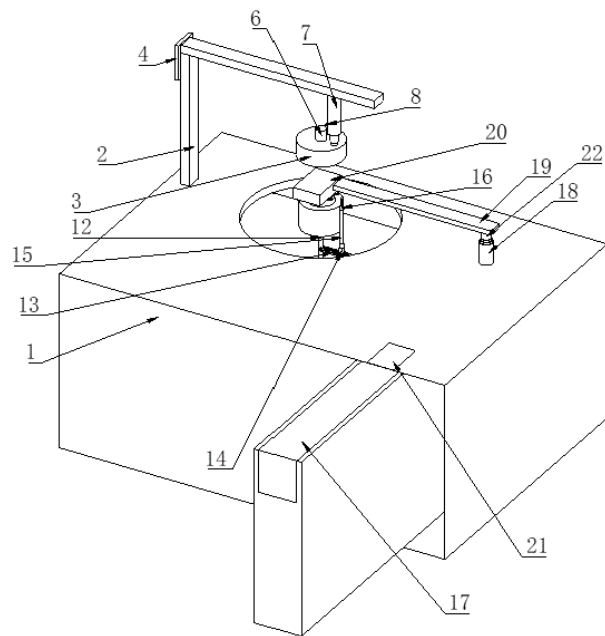
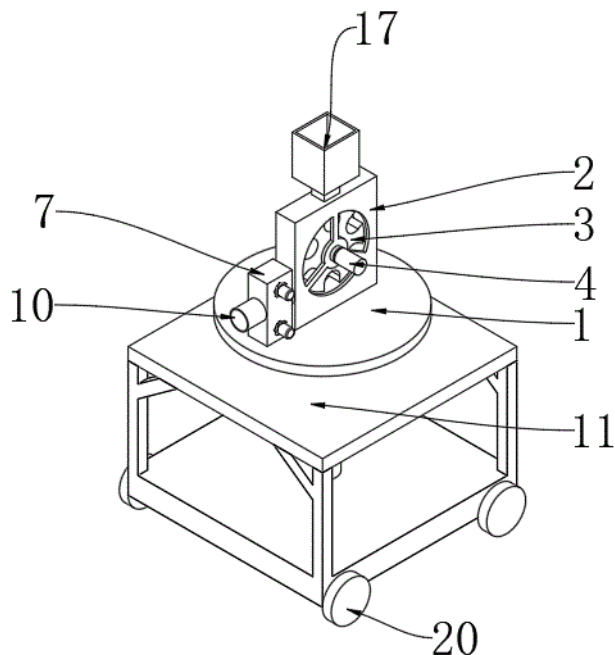
00: -
 The present invention provides a computer network security system based on virtualization technology, falling within the field of network security. The computer network security system based on virtualization technology includes a virtual private network module, a virtual firewall module, an intrusion detection module, an intrusion prevention module, a pre-running module, an access control module and a vulnerability management module. A command or software input by a user first passes through a detection of the virtual firewall module, then enters the pre-running module, the pre-running module performs pre-running on the command or software, and the command or software is transmitted to a computer system for running; and in a process of running, the intrusion detection module monitors activities of virtual network and system to discover potential malicious activities or attacks, thereby further reducing the possibility of the computer network and the system being attacked while running, and further improving the security of the use of the computer network and the system.

21: 2024/06980. 22: 2024/09/11. 43: 2025/03/14
 51: A63B

71: Hainan College of Economics and Business
 72: Li Xinhua, Ren Cai, Liu Lin, Ji Jiawen, Chen Jicheng, Ren Guangbo

54: ADJUSTABLE SERVE DEVICE FOR TABLE TENNIS TRAINING

00: -
 The present invention provides an adjustable serve device for table tennis training. The device includes a disc. A ball delivery box is fixedly connected to a top of the disc, a triangular fixing plate is fixedly connected to a right side of the ball delivery box, and a motor I is fixedly connected to a center of a right side of the triangular fixing plate. A rotating shaft is fixedly connected to an output end of the motor I, a ball delivery plate is penetrated by and fixedly connected to a middle of an outer ring of the rotating shaft, and a launching box is fixedly connected to a front side of the ball delivery box. In the present invention, an output power of the motor I may be adjusted, and a ball feeding speed of the ball delivery plate may be adjusted, having high practicability.



21: 2024/06981. 22: 2024/09/11. 43: 2025/03/14
 51: B29C
 71: Yueyang Vocational Technical College
 72: Hu Wei

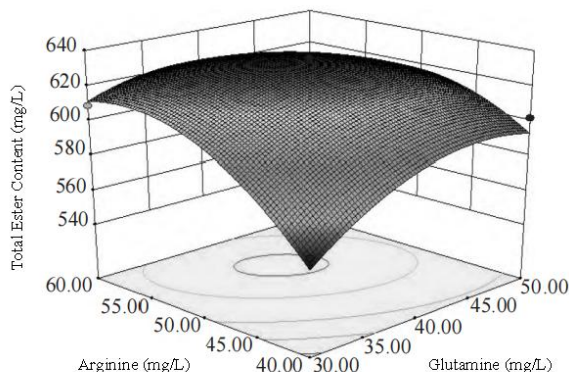
54: DEVICE FOR REMOVING BURRS OF RUBBER SEALING RING BASED ON VISUAL INSPECTION

00: -
 The present invention provides a device for removing burrs of a rubber sealing ring based on visual inspection, falling within the field of devices of rubber sealing ring processing technology, including a cabinet body; a restriction frame is fixed to one side of the cabinet body, and two fixing trays are arranged between the restriction frame and the cabinet body; rotating grooves are disposed in the fixing trays, a motor I is fixed in the cabinet body, and a motor II is fixed to an upper fixing trays; and an output end of the motor II extends into the upper fixing tray, and a burr removal mechanism is arranged between the restriction frame and the motor I. The burr removal mechanism is convenient to fix a rubber sealing ring to the fixing trays, burrs of an inner ring and an outer ring of the rubber sealing ring are convenient to remove, and the burrs of the rubber sealing ring are convenient to be detected, which improves the efficiency of burrs removal and is convenient for the production and processing of the rubber sealing ring.

21: 2024/06983. 22: 2024/09/11. 43: 2025/03/17
 51: A01N; C12N
 71: SHANDONG VOCATIONAL COLLEGE
 72: ZHANG, Daolei, YU, Leijuan, LV, Yinghui
54: SORGHUM EXTRACT GANODERMA ORIGINAL CULTURE MEDIUM AND PREPARATION METHOD

00: -
 This application pertains to a sorghum extract Ganoderma original strain culture medium and its preparation method. The culture medium comprises water and nutrients. The nutrients include the following ingredients by weight: 9000-11000 parts sorghum, 500-1500 parts bran, 15-25 parts glucose, 0.4-0.8 parts potassium dihydrogen phosphate, and 0.4-0.8 parts magnesium sulfate. After cultivating the Ganoderma mother strain in this original strain culture medium, the mycelium grows rapidly and vigorously, producing white, compact, and robust mycelium. This significantly shortens the production cycle, resulting in higher absolute biological conversion rates and production efficiency for Ganoderma.

Ganoderma Mother Strain	Culture Medium	Time of Full Mycelium Coverage
Taishan Ganoderma Mother Strain	Example 1	23 days
	Comparative Example 1	27 days
Korean Ganoderma Mother Strain	Example 2	21 days
	Comparative Example 1	27 days
Wild Ganoderma Mother Strain	Example 3	21 days
	Comparative Example 1	28 days



21: 2024/06984. 22: 2024/09/11. 43: 2025/03/17
 51: C12G
 71: SHANDONG VOCATIONAL COLLEGE
 72: LV, Yinghui, ZHANG, Daolei, YU, Leijuan, LIU, Guangpeng
54: EXPERIMENTAL METHOD FOR EVALUATING THE IMPACT OF NUTRIENTS ON GRAY JUJUBE WINE QUALITY
 00: -

This invention discloses an experimental method for investigating the influence of nutrients on the quality of gray jujube wine, pertaining to the field of jujube wine brewing. The method encompasses the following steps: S1, preparation of jujube juice; S2, preparation of seed culture medium; S3, jujube wine fermentation; S4, Plackett-Burman experiment; S5, Box-Behnken experiment. This invention screened 11 amino acids, 6 trace elements, and 5 growth factors that may influence the formation of ester compounds during the fermentation process of gray jujube wine. The study ultimately identified 4 nutrients that have the most significant impact on the total ester content of jujube wine. This approach can substantially increase the content of ester compounds in jujube wine, thereby enhancing the flavor and taste of jujube wine, and provide valuable insights for improving the quality of jujube wine and other fruit wines.

21: 2024/07009. 22: 2024/09/11. 43: 2025/03/17
 51: A01G; F21V; G02B
 71: SUPERIOR SPECIAL PROJECTS (PTY) LTD
 72: Mark Thomas Gerald WILLIAMS
 33: ZA 31: 2023/08843 32: 2023-09-19
54: PHOTO SELECTIVE LIGHT BARRIER FILM ARRANGEMENT

00: -
 The invention discloses a photo selective light barrier film arrangement, which includes a membrane adapted to control the effects of ultraviolet light, photosynthetically activated radiation and near infrared light. The arrangement is not only adapted to control the effects of UV light, far and near IR light, but also incorporates additives that will preserve the mechanical integrity of the light barrier whilst exposed to the elements. The membrane includes UV stabilizers and UV absorbers. The UV stabilizers and UV absorbers include at least one or more combination of Hydroxy Benzotriazole (BTA), Hindered Amine Light Stabilizers (HALS), Sorbiton Monostearate, Optical Brightening Agent (Stilbene), Siloxane, Silica, Zeolites, Nanosilver, Calcium Carbonate (CaCO₃), Tioxide (TiO₂), Aluminium, Red Pigment, Blue Pigment, Anti-Oxidants and Processing Aids.

21: 2024/07010. 22: 2024/09/11. 43: 2025/03/17
 51: A01N
 71: SUPERIOR SPECIAL PROJECTS (PTY) LTD
 72: Mark Thomas Gerald WILLIAMS
 33: ZA 31: 2023/08844 32: 2023-09-19
54: 1-METHYLCYCLOPROPENE SUBSTRATE ARRANGEMENT

00: -
 The invention discloses a 1-methylcyclopropene substrate arrangement, which includes 1-

methylcyclopropene (1-MCP) coated onto and/or extruded into a moisture substrate to be used as protective packaging for fresh produce. 1-MCP can be additionally liquid coated onto a substrate that could be either organic or inorganic in composition. The substrate is a polymeric membrane which is either recyclable or compostable or biodegradable. The protective packaging is a box liner, portion bag, or top sheet. The 1-methylcyclopropene is provided as a mixture to the coating process.

21: 2024/07012. 22: 2024/09/12. 43: 2025/03/17

51: G06Q

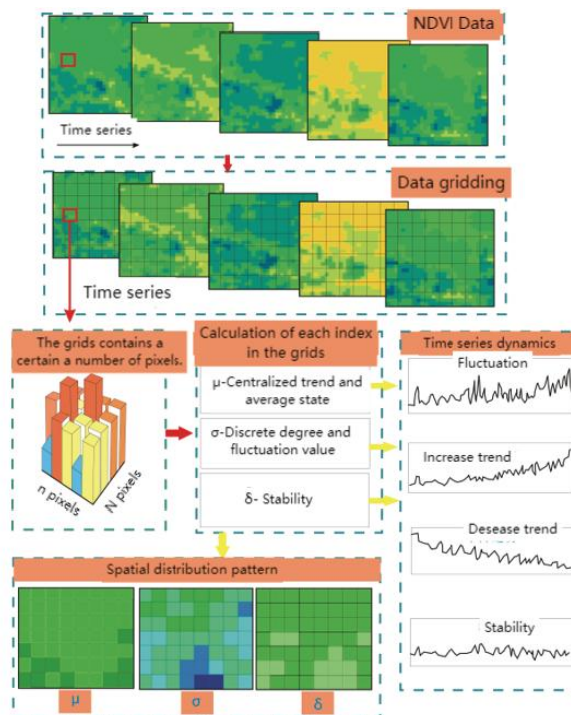
71: CHINA UNIVERSITY OF GEOSCIENCES (WUHAN)

72: FENG, Haibo, ZHOU, Jianwei, LI, Zhongxia, DUAN, Ying, HOU, Qingqiu, ZHENG, Xiaoming

54: METHOD AND SYSTEM FOR STUDYING STABILITY OF VEGETATION SYSTEM BASED ON VEGETATION INDEXES

00: -

The present invention discloses a method and system for studying stability of a vegetation system based on vegetation indexes, which relates to the technical field of information processing. The method includes downloading remote sensing data of normalized difference vegetation index (NDVI) of continuous years in the same growth period of vegetation, and performing grid division on the remote sensing data of NDVI; calculating a mean value of NDVI and a mean square error of NDVI in grids; and calculating relative fluctuation of NDVI according to the mean value of NDVI and the mean square error of NDVI, and the lower the relative fluctuation value of NDVI is, the more stable the vegetation system is. When the invention performs the spatiotemporal dynamic analysis of each index, the higher the relative fluctuation value, the worse the stability of the system; if the relative fluctuation value continues to rise and exceeds a background threshold, it indicates that the system is unstable, otherwise, it shows that the stability of the system is enhanced, and the stability of vegetation system is characterized.



21: 2024/07014. 22: 2024/09/12. 43: 2025/03/17

51: A61P

71: PILLAY, Suntheran

72: PILLAY, Suntheran

54: A BINDER FOR AN ORAL PHARMACEUTICAL COMPOSITION

00: -

The invention provides an oral pharmaceutical composition comprising Minoxidil 1% and a novel binder, wherein the binder comprises Lion's Mane mushroom, preferably a spent biomass of Lion's Mane mushroom comprising residual depleted mushroom material, following the extraction of bioactive compounds from the Lion's Mane mushroom, by one or more known extraction processes.

21: 2024/07015. 22: 2024/09/12. 43: 2025/03/17

51: C12N; C12Q

71: ZHOUSHAN FOOD AND DRUG INSPECTION AND TESTING INSTITUTE, CHINA JILIANG UNIVERSITY

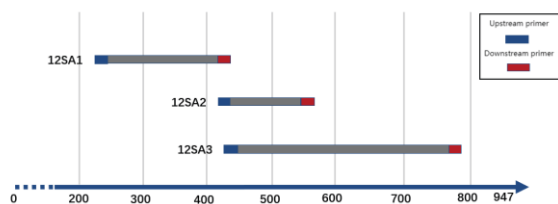
72: CHEN, Xiang, GUAN, Feng, DING, Siling, ZHOU, Yong, XU, Aichun, LIU, Ting, HUANG, Zhuliang, ZHAO, Qiaoling

33: CN 31: 2023112142657 32: 2023-09-19

54: HIGH-THROUGHPUT SEQUENCING PRIMER PAIR FOR SYNCHRONOUSLY DETECTING

LIVESTOCK AND FISH SPECIES AND APPLICATION THEREOF

00: -
 The present invention relates to the technical field of food detection. The present invention provides a high-throughput sequencing primer pair for synchronously detecting livestock and fish species and application thereof, the primer pair includes upstream primer and downstream primer; and a nucleotide sequence of the upstream primer is shown as SEQ ID NO.1, and a nucleotide sequence of the downstream primer is shown as SEQ ID NO.2. The present invention provides a set of meta DNA barcoding primers that can be used for qualitative identification of mixed components of fish products, which is an important supplement to the existing meta DNA barcode technology. The primer pair of the present invention has high species resolution and good versatility and accuracy and has high sensitivity to meet the detection limit requirements.



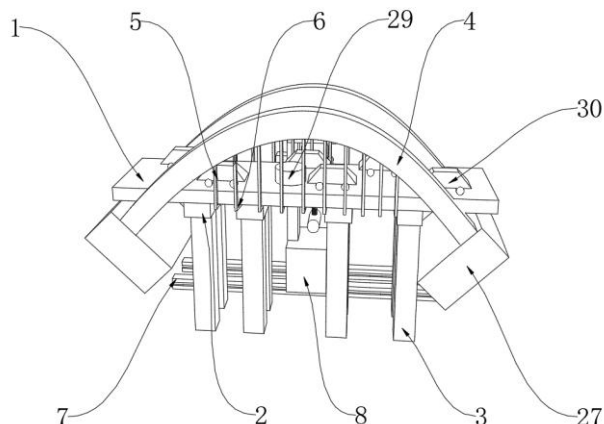
21: 2024/07052. 22: 2024/09/13. 43: 2025/03/14
 51: G01M
 71: Chuzhou University

72: Qu Hao, Gu Jianfeng, Liu Yufeng
 33: CN 31: 202411012281.2 32: 2024-07-26

54: BRIDGE IMPACT EXPERIMENTAL DEVICE

00: -
 The present invention provides a bridge impact experimental device, including a test bridge and a door panel, an arch rib is fixedly connected to the left and right sides of the test bridge, a plurality of suspension rods are fixedly connected to the bottom of the arch rib, a cross bar is fixedly connected to the bottom of the suspension rods, two sliding rails are provided on the rear side of the test bridge pier, a door frame is rotatably connected to both the left and right sides of the door panel, and a roller shaft is provided on the top of the door frame. In the present invention, by providing the pendulum impact test device and the protective cover structure with the

noise elimination device, the accuracy and reliability of the bridge impact test can be improved.

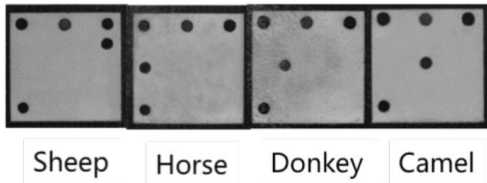


21: 2024/07055. 22: 2024/09/13. 43: 2025/03/17
 51: C12N; C12Q
 71: CHINA JILIANG UNIVERSITY, TAIZHOU FOOD AND DRUG INSPECTION INSTITUTE
 72: GUAN, Feng, PAN, Yingqiu, XIA, Huil, YANG, Siyu, GE, Jian, HUANG, Yafang, MA, Xinyu
 33: CN 31: 2024101859995 32: 2024-02-20

54: PRIMER-PROBE SET FOR SYNCHRONOUSLY DETECTING EIGHT KINDS OF ANIMAL MILK-DERIVED COMPONENTS AND ITS APPLICATIONS, GENE MEMBRANE CHIP AND PREPARATION METHOD

00: -
 The present invention relates to the technical field of biological detection chips. The present invention provides a primer-probe set for synchronously detecting eight kinds of animal milk-derived components and its applications, a gene membrane chip and a preparation method. The present invention adopts multiplex PCR primers to amplify eight kinds of milk-derived animal-specific sequences including a cow, a yak, a buffalo, a goat, a sheep, a horse, a donkey and a camel, and simultaneously introduces eukaryotic and plant-derived internal reference primers. A goal for synchronously detecting eight kinds of animal milk-derived components and plant-derived components can be achieved by hybridization of PCR products with species-specific probes on the membrane chip. The detection throughput of adopting the multiplex PCR and membrane chip methods is greatly improved compared with ordinary PCR and fluorescence quantitative PCR, which greatly improved the screening efficiency and targeted

detection ability of adulterated components in dairy products.



21: 2024/07100. 22: 2024/09/16. 43: 2025/03/17
51: G01N

71: INSTITUTE OF HYDROGEOLOGY AND ENVIRONMENTAL GEOLOGY, CHINESE ACADEMY OF GEOLOGICAL SCIENCES

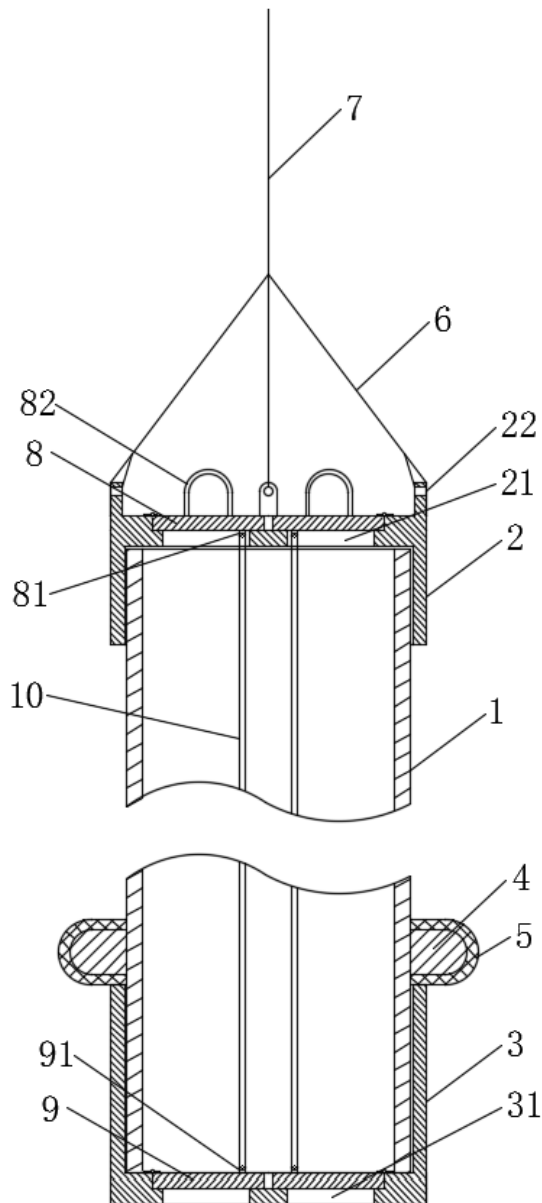
72: DONG, Qiuyao, MA, Rong

33: CN 31: 2024110639941 32: 2024-08-05

54: DEVICE FOR RAPIDLY COLLECTING GROUNDWATER SAMPLE

00: -

The present invention discloses a device for rapidly collecting a groundwater sample and relates to the technical field of groundwater sampling. The device includes a tube body; an upper face end is arranged at the top of the tube body, and a lower face end is arranged at the bottom of the tube body; the upper face end is connected to a first lifting rope; multiple first through holes are arranged on the upper face end; the top of each first through hole is covered by a first cover plate; one end of each first cover plate is hinged to the upper end; a first hinged ear is arranged at the bottom of each first cover plate; multiple second through holes corresponding to the first through holes are arranged on the lower face end; the top of each second through hole is covered by a second cover plate; one end of each second cover plate is hinged to the lower face end; a second hinged ear is arranged at the bottom of each second cover plate; and the first hinged ear is hinged to the relative second hinged ear by a connecting rod. the present invention adopts a form of bottom water inlet and upper drainage, and can collect groundwater at a specified depth; the present invention adopts multiple first through holes and second through holes to increase the inlet and outlet water area, reduce the sampling time, and realize rapid sampling; and the present invention adopts pressure difference control, does not need to trigger mechanism, and has a simple structure.



21: 2025/00076. 22: 2025/01/02. 43: 2025/01/17
51: G02B

71: BEIJING SANO LASER S&T DEVELOPMENT CO., LTD.

72: ZHANG, HONGBO, ZHANG, YONGQIANG

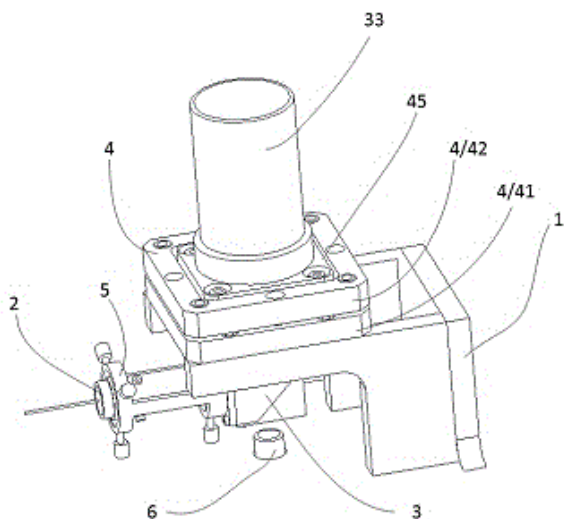
33: CN 31: 202410217306 .6 32: 2024-02-28

54: VISIBLE LIGHT CALIBRATOR, LASER DEVICE AND CALIBRATION METHOD

00: -

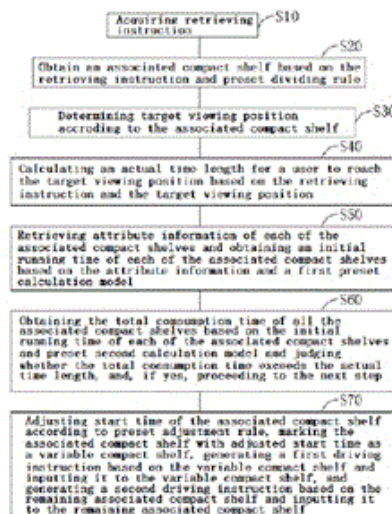
The present application relates to a technical field of lasers, in particular to a visible light calibrator, a laser device and a calibration method. The visible light

calibrator includes a bracket, a visible light generator, an optical mirror assembly and a first position adjustment structure; the optical mirror assembly includes a mounting seat, an optical mirror and a light outlet cylinder; the mounting seat is provided with a first transmission channel, a second transmission channel and a third transmission channel connected to each other; the optical mirror is configured to reflect light from the first transmission channel and transmit light from the third transmission channel, and each of the reflected light and the transmitted light is emitted through a fourth transmission channel; and the first position adjustment structure is configured for adjusting a light emitting direction of a visible light by adjusting a position of the light outlet cylinder. In the calibration, an optical path of the laser light coincides with that of the visible light through the first position adjustment structure, thereby solving the technical problem that the guiding effect of the visible light on the high-power laser is weakened.



21: 2025/00199. 22: 2025/01/06. 43: 2025/01/17
 51: G06F
 71: BEIJING RONG'ANTE INTELLIGENT TECHNOLOGY CO., LTD.
 72: ZHANG, KUN, HE, LONG, BAI, LAIBIN, LI, GUICAI
 33: CN 31: 202210940178.9 32: 2022-08-05
54: CONTROL METHOD AND SYSTEM FOR INTELLIGENT COMPACT SHELF, AND TERMINAL AND STORAGE MEDIUM
 00: -

The present application relates to a control method and system for an intelligent compact shelf, and a terminal and a storage medium. The method comprises: acquiring a fetching instruction; obtaining associated compact shelves on the basis of the fetching instruction and a preset division rule; determining a target query position according to the associated compact shelves; on the basis of the fetching instruction and the target query position, calculating the actual total time taken by a user for reaching the target query position; obtaining an initial running time of each associated compact shelf on the basis of attribute information and a preset first calculation model; obtaining total consumed time on the basis of the initial running times and a preset second calculation model; determining whether the total consumed time exceeds the actual total time; and if the total consumed time exceeds the actual total time, performing adjustment on an associated compact shelf according to a preset adjustment rule, so as to obtain a variable compact shelf, generating a first driving instruction on the basis of the variable compact shelf and outputting same to the variable compact shelf, and generating a second driving instruction on the basis of the remaining associated compact shelves and outputting same to the remaining associated compact shelves. The present application has the effect of improving the efficiency of archive fetching.



21: 2025/00488. 22: 2025/01/15. 43: 2025/01/17
 51: H04L

71: BEIJING EASYNETWORKS TECHNOLOGY CO., LTD.

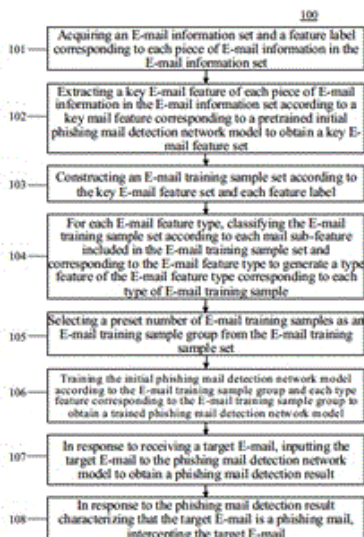
72: JI, TENG, CAO, GUOHUAN

33: CN 31: 202411186263.6 32: 2024-08-28

54: PHISHING EMAIL RECOGNITION METHOD AND DEVICE BASED ON MAIL DETECTION NETWORK MODEL

00: -

The present application relates to the field of phishing email recognition, in particular to a phishing email recognition method and device based on a mail detection network model. A specific implementation of the method includes: constructing an E-mail training sample set according to a key E-mail feature set and each feature label; for each E-mail feature type, classifying the E-mail training sample set to generate a type feature of an E-mail feature type corresponding each type of E-mail training sample; training an initial phishing mail detection network model according to an E-mail training sample group and each type feature corresponding to the E-mail training sample group; inputting a target E-mail to the phishing mail detection network model; and in response to a phishing mail detection result characterizing that the target E-mail is a phishing mail, intercepting the target E-mail. In the implementation, the phishing mail can be recognized in time by means of the trained phishing mail detection network model, so that the security of a network is improved.



21: 2025/01100. 22: 2025/02/04. 43: 2025/02/07
51: B29D; E04C

71: LIMITED LIABILITY COMPANY COMPOSITE GROUP CHELYABINSK

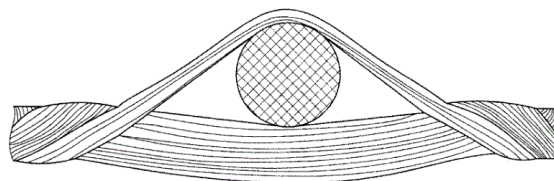
72: BELIAEV, Oleg Yurievich

33: RU 31: 2022121505 32: 2022-08-08

54: COMPOSITE MESH

00: -

The utility model relates to producing a composite reinforcing mesh from non-metallic materials, which can be used for reinforcing masonry, brickwork, concrete structures and soil, as well as for fencing and for increasing the lifespan of roads. The aim of this utility model is to create a composite mesh that has high performance characteristics and physical and mechanical properties, while providing for high axial tensile strength of both the longitudinal and the transverse rods. In the claimed composite mesh, which is formed of interconnected longitudinal and transverse rods, a cell formation region is formed by orthogonally contacting cured and uncured rods, with subsequent curing of the mesh, wherein the rods are connected by the feeding of bundles of roving strands of a longitudinal rod under formation, which are separated into strands of different widths that are oriented in a direction perpendicular to the longitudinal axis of a transverse rod and that wrap around sections of the radial surface of the transverse rod from opposite sides, giving rise to cavities between straight sections of the longitudinal rod and the surface of the transverse rod.



21: 2025/01216. 22: 2025/02/10. 43: 2025/03/03

51: F21S; F21V

71: JIANGSU STAR LIGHTING CO., LTD.

72: JING, Wei, ZHU, Jinjun, TANG, Yonghong, ZHANG, Min, HUANG, Zhixiang

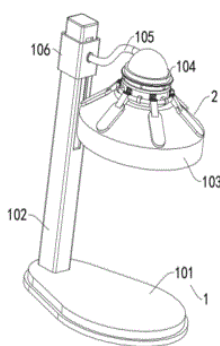
33: CN 31: 202410250939.7 32: 2024-03-05

54: LIGHT-ADJUSTABLE LED LAMP

00: -

Disclosed is a light-adjustable LED lamp, including a bracket assembly, where the bracket assembly includes a base, a support frame is arranged at one end of the base, a lampshade is movably arranged above the base, an adjusting frame is slidably

arranged outside the support frame, a LED lamp body is arranged inside the lampshade, a connecting column is arranged at the top of the lampshade, a connecting rod is arranged at the outer end of the connecting column, the outer end of the connecting rod is connected in a rotatory manner to the adjusting frame, and an adjusting assembly and a limit assembly are arranged between the support frame and the adjusting frame; an extension assembly is arranged on the lampshade, and the extension assembly includes a plurality of light transmission slots. The present invention has the advantages of light adjustment, flexible flipping, stable limiting, simplicity and practicability.



21: 2025/01491. 22: 2025/02/18. 43: 2025/03/03

51: G01R

71: Jilin Communications Polytechnic

72: KONG, Chunhua, QU, Yingkai, JIN, Shouling,

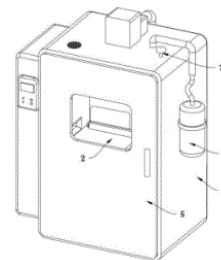
ZHAO, Zihan, QU, Zetong, ZHAO, Wei, GAO, Shuai

33: CN 31: 202411052328.8 32: 2024-08-02

54: HIGH AND LOW TEMPERATURE TEST DEVICE FOR POWER BATTERY OF NEW ENERGY VEHICLE

00: -

Disclosed in the present invention is a high and low temperature test device for a power battery of a new energy vehicle, which relates to the field of battery testing. The test device includes a test chamber, a placing plate, an air outlet and a flame sensor, where the placing plate and the flame sensor are fixedly connected to an inner cavity wall of the test chamber, the air outlet is provided at an inner side of the test chamber, an upper portion of the test chamber is provided with an alarm lamp, and an interior of the test chamber is provided with a fire shielding cover assembly.



21: 2025/01522. 22: 2025/02/18. 43: 2025/03/03

51: A61K

71: SHENZHEN HUJIA TECHNOLOGY CO., LTD.

72: SHU, Peng, LIU, Zhao, NIE, Xin, ZHAO, Nan,

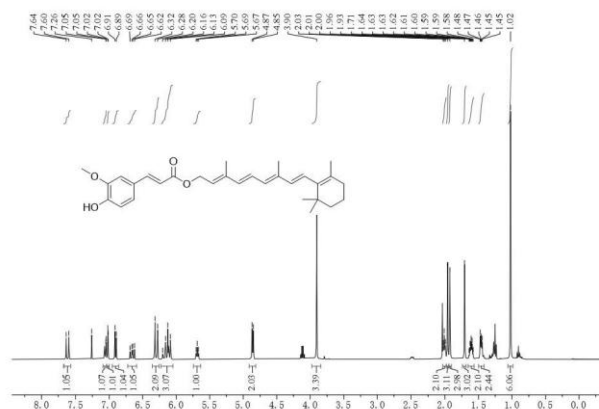
LIANG, Ling, WANG, Jing, LI, Menggeng

33: CN 31: 202311346467.7 32: 2023-10-17

54: RETINOL DERIVATIVE OR ITS SALT, AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

This disclosure provides a retinol derivative or its salt, and preparation method and application thereof. The retinol derivative or its salt retains the anti-aging effect of retinol and reduces its side effects of skin irritation and sensitisation. In addition, the disclosed retinol derivative or its salt also has the effects of skin whitening, photo damage resistance, anti-inflammation, anti-oxidation, repair, etc., and has good prospects for application in the field of cosmetic raw materials.



21: 2025/01659. 22: 2025/02/24. 43: 2025/03/03

51: G01N

71: Northwest A&F University, Agricultural Genomics

Institute, Chinese Academy of Agricultural Sciences

72: ZHANG Shuo, LIU Ze, QIANG Jianwei, QIAO Xi,

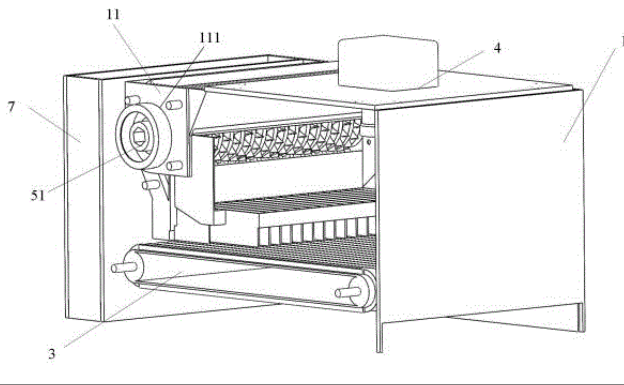
HAN Nianlong, CHEN Jun, CHEN Yu

33: CN 31: 202410692478.9 32: 2024-05-31

54: DEVICE AND METHOD FOR DETECTING QUARANTINE WEED SEEDS

00: -

The present application provides a device and method for detecting quarantine weed seeds, falling within the technical field of crop detection. The detection device includes a box body, a seed distributing roller, a seed feeding piece, a seed protecting piece, a conveying assembly and a detection and analysis assembly. The seed distributing roller is circumferentially arranged with at least two first pockets and at least two second pockets, a bottom of each of the first pockets is in communication with one of the second pockets, sections of the bottom of the first pocket and the second pocket are arc-shaped, and the arc-shaped curvature radius of the bottom of the first pocket is greater than that of the second pocket, the first pocket is used for accommodating crop seeds, and the second pocket is used for accommodating quarantine weed seeds. In the present example, the single-seed uniform distribution and tiling posture adjustment of crop seeds and quarantine weed seeds are realized, seed images are obtained by the detection and analysis assembly to detect weed seeds, and a proportion of weed seeds in a population is analyzed and calculated, improving the detection accuracy and detection efficiency.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

3. DESIGNS

DESIGNS**APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993**

The particulars appear in the following sequence: Copies of the application and representations cannot be supplied until application is registered and advertised. In all correspondence reference should be made to the number of the application. Application number, full name of applicant, class, articles to which design is to be applied and priority date (if any)

- APPLIED ON 2025/02/24 -

A2025/00212 - Shenzhen Ten Rings Optics Co., Ltd. Class 16. DIGITAL DAY AND NIGHT VISION SCOPE

F2025/00215 - Zibo Containers (Pty) Limited Class 09. CONTAINER

A2025/00214 - Zibo Containers (Pty) Limited Class 09. CONTAINER

A2025/00213 - Shenzhen Ten Rings Optics Co., Ltd. Class 16. DIGITAL NIGHT VISION MONOCULAR

- APPLIED ON 2025/02/25 -

F2025/00222 - ASCENTECH SAFETY CONSULTANCY CC Class 29. FALL ARREST ANCHORS

F2025/00220 - BECKER, Gert Stephanus Class 24. MINIMAL INVASIVE SURGERY (MIS) PEDICLE SCREW

A2025/00218 - APPLE INC. Class 14. SET OF EARPHONES

A2025/00217 - APPLE INC. Class 14. SET OF EARPHONES

F2025/00216 - Anthea Mwangi Class 32. DEVICE MARK

A2025/00219 - APPLE INC. Class 3. CASE FOR EARPHONES

F2025/00221 - BECKER, Gert Stephanus Class 24. HEAD EXTENSION FOR A PEDICLE SCREW

- APPLIED ON 2025/02/26 -

F2025/00225 - North-West University Class 13. BIPOLAR PLATE

A2025/00223 - PRAESIDIAD HOLDING BV Class 25. FENCE POST

F2025/00230 - HYDROSTRUCT (PTY) LTD Class 25. DAMP PROOF COURSE

A2025/00224 - North-West University Class 13. BIPOLAR PLATE

A2025/00229 - Colgate-Palmolive Company Class 9. CAPS

A2025/00228 - Colgate-Palmolive Company Class 9. CAPS

F2025/00226 - PRAESIDIAD HOLDING BV Class 25. FENCE POST

F2025/00232 - HYDROSTRUCT (PTY) LTD Class 25. DAMP PROOF COURSE

F2025/00231 - HYDROSTRUCT (PTY) LTD Class 25. WEEP VENT

A2025/00227 - KADER, Mohamed Azeem Class 21. BOARDS FOR BOARDGAMES

- APPLIED ON 2025/02/27 -

A2025/00234 - APPLE INC. Class 10. BAND

A2025/00235 - APPLE INC. Class 10. ELECTRONIC DEVICE

A2025/00236 - DEERE & COMPANY Class 12. SENSOR POD FOR A WORK VEHICLE

A2025/00233 - BLACKCUBE CO., LTD, JIANGMEN YISHAN METAL PRODUCTS CO., LTD. Class 07.
COOKING POT

- APPLIED ON 2025/02/28 -

A2025/00242 - DOONA HOLDINGS LTD. Class 21. A COMPACT MOBILE TOY, AND A CONNECTOR FOR A
COMPACT MOBILE TOY

A2025/00237 - HANSGROHE SE Class 23. SINK

A2025/00240 - DOONA HOLDINGS LTD. Class 21. A CONNECTOR

A2025/00238 - YETI COOLERS, LLC Class 7. COFFEE MAKER

A2025/00239 - Personnel Hygiene Services Limited Class 28. AIR FRESHENERS

A2025/00241 - DOONA HOLDINGS LTD. Class 21. A COMPACT MOBILE TOY

- APPLIED ON 2025/03/03 -

A2025/00259 - Dayo Ajilore Class 28. PLASTIC PATHOLOGY SLIDES STORAGE BOX

A2025/00243 - K2023280648 (SA) (PTY) LTD Class 14. REMOTE MONITORING AND METERING SYSTEM

A2025/00251 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. HOOKAH ISLAND WRAPPER

F2025/00256 - TRU-TRAC ROLLERS (PTY) LTD. Class 12. FLAT CENTRED ROLLER

A2025/00248 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. MR HOOKAH WRAPPER

A2025/00249 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. MR HOOKAH RED BOX

A2025/00244 - Mothibeli Makoanyane, Tshepo Kamohelo Moshoeshe Class 15. VEHICLE

F2025/00245 - REYNO BURMESTER Class 10. NOTIFLO ENCLOSURE

F2025/00246 - AXE STRUCT (PTY) LTD Class 13. SOLAR PANEL SUPPORT ASSEMBLY

F2025/00255 - TRU-TRAC ROLLERS (PTY) LTD. Class 12. TAPERED ROLLER

A2025/00252 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. HOOKAH ISLAND BOX - SHINE
DESIGN

A2025/00250 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. MR HOOKAH BLUE BOX

A2025/00253 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. HOOKAH ISLAND - RING

F2025/00257 - TRU-TRAC ROLLERS (PTY) LTD. Class 12. ROLLER

F2025/00254 - TRU-TRAC ROLLERS (PTY) LTD. Class 12. SET OF ROLLERS

A2025/00247 - Zhejiang Shisha New Energy Technology Co. Ltd Class 27. MR HOOKAH WRAPPER

A2025/00258 - TRU-TRAC ROLLERS (PTY) LTD. Class 12. SET OF ROLLERS

- APPLIED ON 2025/03/04 -

A2025/00266 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES

A2025/00267 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES

A2025/00261 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES

A2025/00270 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES

A2025/00268 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES

A2025/00269 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES

A2025/00265 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES

A2025/00264 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES

A2025/00263 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES

F2025/00260 - ROCKETFUEL PRODUCT INNOVATIONS (PTY) LTD Class 08. SPORTING GEAR RACK

A2025/00262 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES

- APPLIED ON 2025/03/05 -

F2025/00271 - MEINTJES, Lorraine Class 4. A MOP

A2025/00273 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2025/00274 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

A2025/00272 - Colgate-Palmolive Company Class 4. ORAL CARE IMPLEMENTS

- APPLIED ON 2025/03/06 -

A2025/00275 - ORKLA HEALTH AS Class 28. ELECTRIC TOOTHBRUSH

- APPLIED ON 2025/03/07 -

A2025/00276 - SUNGROW POWER SUPPLY CO., LTD. Class 13. INVERTER

F2025/00282 - CARLMAC STEEL (PTY) LTD. Class 8. WASHER

A2025/00280 - FLENDER INDUSTRIEGETRIEBE GMBH Class 15. GEARBOX COVER

A2025/00279 - FLENDER INDUSTRIEGETRIEBE GMBH Class 15. GEARBOX COVER

A2025/00278 - FLENDER INDUSTRIEGETRIEBE GMBH Class 15. GEARBOX COVER

A2025/00281 - FLENDER INDUSTRIEGETRIEBE GMBH Class 15. GEARBOX COVER

A2025/00277 - FLENDER INDUSTRIEGETRIEBE GMBH Class 15. GEARBOX COVER

- APPLIED ON 2025/03/10 -

F2025/00285 - TIMM, Troy Lance Class 13. GROUNDING DEVICE

F2025/00288 - Magaretha Hildebrand Class 09. ONLINE ORDER DELIVERY SECURE RECEIVING BOX

A2025/00287 - MANOLA ENTERPRISES (PTY) LTD Class 30. CAT FOOD BOWL

A2025/00286 - TIMM, Troy Lance Class 13. GROUNDING DEVICE

F2025/00283 - Reyno Burmester Class 10. NOTIFLO INTERNAL COMPONENT LAYOUT

A2025/00284 - TIMM, Troy Lance Class 13. GROUNDING DEVICE

A2025/00299 - Llewellyn Pietersen Class 32. TIET IS VERNIET

- APPLIED ON 2025/03/11 -

A2025/00289 - MCG INDUSTRIES (PTY) LTD Class 9. BOTTLE CRATE

F2025/00290 - MCG INDUSTRIES (PTY) LTD Class 9. BOTTLE CRATE

F2025/00293 - HAIDNAY INNOVATION COMPANY PTY LTD Class 15. HARROW DISC PIECE

A2025/00292 - ULWAZI CREATIONS (PTY) LTD Class 02. SHIRT

F2025/00291 - APL Cartons (Pty) Ltd Class 09. PALLETS AND CARTONS FOR LOADING SHIPPING CONTAINERS

A2025/00294 - NONDUMISO SHARON NKOSI Class 99. BEADED HEADPIECE IN A FORM OF WIGS AND CLIP ON HAIR ATTACHMENT

- APPLIED ON 2025/03/12 -

A2025/00296 - David John Drake Hawkins Class 07. SWISH

A2025/00295 - ROLO BAGS (PTY) LTD. Class 3. CASE

- APPLIED ON 2025/03/13 -

F2025/00297 - VAN DER LEEK, Robert Benjamin Class 25. FASCIA WITH INTEGRAL GUTTER

F2025/00298 - Nicolaas Paul Swart Class 07. MULTI GRID CLEANER

- APPLIED ON 2025/03/14 -

F2025/00300 - MPACT LIMITED Class 9. BOX CONNECTOR

A2025/00301 - MPACT LIMITED Class 9. BOX CONNECTOR

F2025/00302 - MPACT LIMITED Class 9. BOX CONNECTOR BLANK

A2025/00303 - Nicolaas Paul Swart Class 07. MULTI GRID CLEANER

- APPLIED ON 2025/03/17 -

A2025/00304 - NEXUS MINE PTY LTD. Class 12. MINING TRUCK BED

F2025/00306 - Terra Trak Technologies International (Proprietary) Limited Class 12. A DISC ELEMENT FOR AN INSERT FOR A RUN FLAT TYRE

A2025/00307 - RITESTAND (PTY) LTD. Class 29. A MOBILE FIRE EXTINGUISHER STATION

A2025/00305 - Terra Trak Technologies International (Proprietary) Limited Class 12. A DISC ELEMENT FOR AN INSERT FOR A RUN FLAT TYRE

- APPLIED ON 2025/03/18 -

A2025/00308 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

- APPLIED ON 2025/03/20 -

A2025/00309 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00312 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00326 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00320 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00330 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00311 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00315 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00324 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00328 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00331 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00318 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00325 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00332 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00329 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00327 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00323 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00322 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00321 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00319 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00317 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00316 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00314 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00310 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

A2025/00313 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

No records available

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART II AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY BE INSPECTED AND MAY BE OPPOSED.

PART II

Design No. : A2023/01432

Applicant : YETI COOLERS LLC.

Class : 07

Article to which the Design is to be Applied: MUG

Date of Lodgment: 14/12/2023

Registrar of Designs

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page.

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: A2022/00481 22: 2022-05-06 23:

43: 2025-02-17

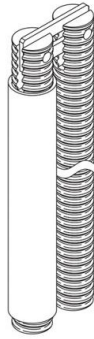
52: Class 08 24: Part A

71: RSC MINING (PTY) LTD

54: ROCKBOLT

57: The novelty of the design resides in the shape and/or configuration of a ROCKBOLT, of indeterminate length, incorporating at least one hinge system for folding the ROCKBOLT into a

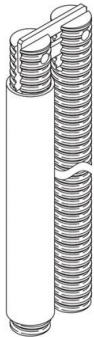
stowage configuration or extending the ROCKBOLT into an operative configuration.



21: A2022/00483 22: 2022-05-06 23:
43: 2025-02-17
52: Class 25 24: Part A
71: RSC MINING (PTY) LTD

54: ROCKBOLT

57: The novelty of the design resides in the shape and/or configuration of a ROCKBOLT, of indeterminate length, incorporating at least one hinge system for folding the ROCKBOLT into a stowage configuration or extending the ROCKBOLT into an operative configuration.



21: A2022/00635 22: 2022-06-07 23:
43: 2025-02-17
52: Class 08 24: Part A
71: RSC MINING (PTY) LTD

54: CONNECTOR

57: The novelty of the design resides in the shape and/or configuration of a CONNECTOR, incorporating an indicator used for connecting two rock bolt components and indicating the assembly status of a modular rock bolt.



21: A2022/00637 22: 2022-06-07 23:
43: 2025-02-17
52: Class 29 24: Part A
71: RSC MINING (PTY) LTD

54: INDICATOR

57: The novelty of the design resides in the shape and/or configuration of an Indicator forming part of a connector used for connecting two rock bolt components and indicating the assembly status of a modular rock bolt.



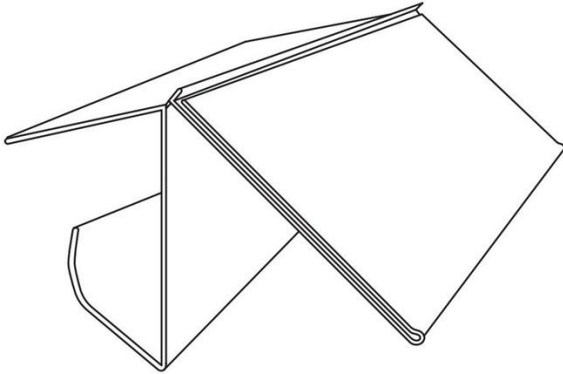
21: A2024/00046 22: 2024-01-15 23:
43: 2025-02-17

52: Class 20 24: Part A

71: THREE NIGHT OWLS (PTY) LTD

54: A DISPLAY DEVICE

57: The novelty of the design resides in the shape and configuration of a DISPLAY DEVICE substantially as shown in the accompanying Figure. The DISPLAY DEVICE has an elongate body of indeterminate length which has a uniform profile along the entire length. The profile of the device is adjustable between first and second configurations.



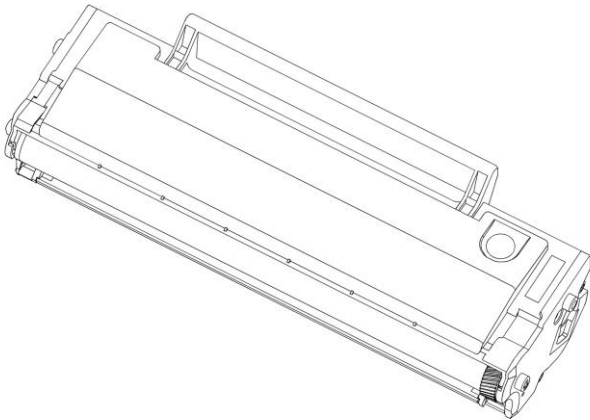
21: A2024/00117 22: 2024-01-02 23:
43: 2025-02-17

52: Class 14 24: Part A

71: ZHUHAI PANTUM ELECTRONICS CO., LTD.

54: PROCESSING CARTRIDGE

57: The design is applied to a processing cartridge. The features of the design for which protection is claimed are those of the shape and/or configuration of the processing cartridge, substantially as illustrated in the accompanying representation.



21: A2024/00469 22: 2024-05-20 23:
43: 2024-12-04

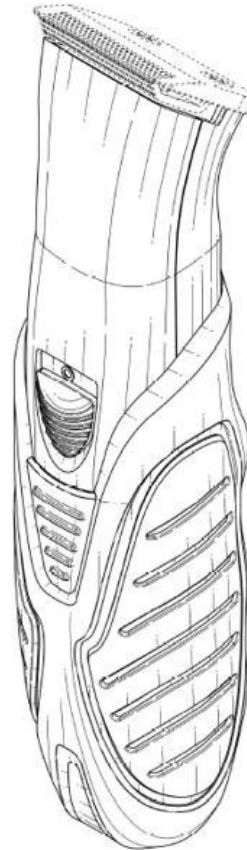
52: Class 28 24: Part A

71: WAHL CLIPPER CORPORATION

33: US 31: 29/921,363 32: 2023-12-15

54: HAIR TRIMMER WITH GRIP

57: The features of the design for which protection is claimed are those of the shape and/or configuration of a hair trimmer with grip 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: A2024/00470 22: 2024-05-20 23:

43: 2024-12-04

52: Class 28 24: Part A

71: WAHL CLIPPER CORPORATION

33: US 31: 29/921,362 32: 2023-12-15

54: HAIR TRIMMER WITH GRIP

57: The features of the design for which protection is claimed are those of the shape and/or configuration of a hair trimmer with grip 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.

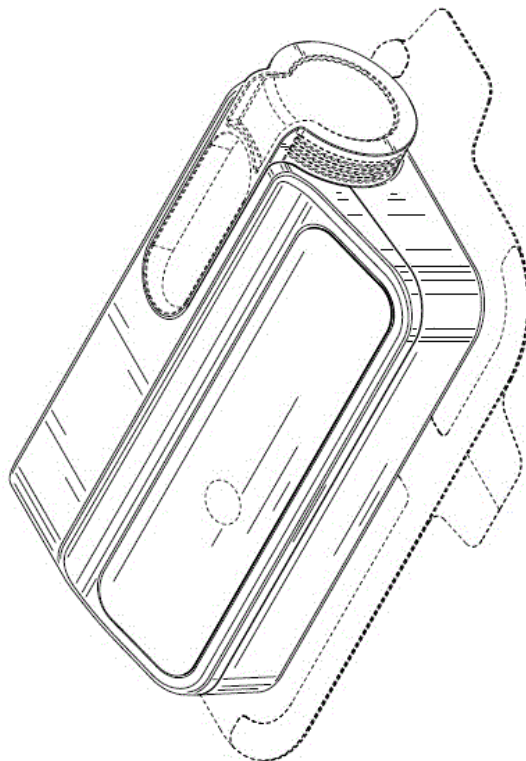
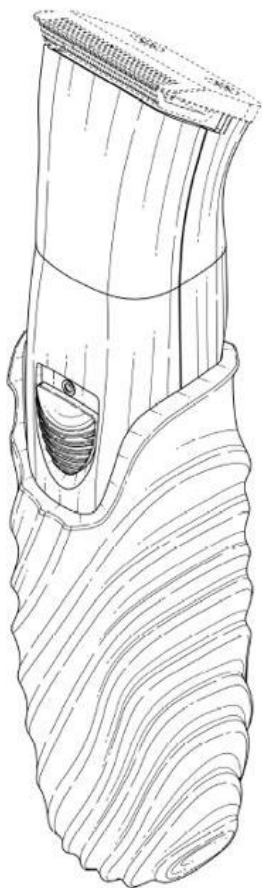


Figure 1
Three-dimensional view

21: A2024/00509 22: 2024-06-03 23:
43: 2023-12-04
52: Class 24 24: Part A
71: Janssen Biotech, Inc.
33: US 31: 29/919,359 32: 2023-12-04

54: DRUG DELIVERY SYSTEMS

57: The design is for a drug delivery system having a drug delivery device that supports a drug storage container therein. The system has a protective cap illustrated as a cylindrical feature. The cap protects an end of the drug storage container when the drug storage container is supported by the drug delivery device. The system is adhered to a patient's skin, and the drug delivery device injects medicine from the drug storage container into the patient via a needle or cannula.

21: A2024/00516 22: 2024-06-04 23:
43: 2023-12-05
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 2023307998502 32: 2023-12-05

54: AUTOMOBILES

57: The design is for an automobile. A front face has a closed grille design having a dotted-matrix pattern which defines a borderless elongated hexagon. A continuous decorative strip connects the two flattened headlight groups, widening the visual width and enhancing the overall front face. A trapezoidal lower grille and triangular air intakes are provided at a lower bumper. A fastback roofline is provided which creates a dynamic coupe style of the automobile. A multi-segment waistline is provided on the sides of the automobile. Large wheels which are well-proportioned to the body of the automobile are provided. At the rear, there is provided a slightly upturned ducktail spoiler along an edge of the trunk. Triangular-shaped through-type taillights are provided on either side of the trunk and partially extend along the width of the trunk.



Figure 6
Three-dimensional view

21: A2024/00537 22: 2024-06-10 23:
43: 2025-01-21

52: Class 9. 24: Part A
71: MOUNTAIN FALLS ESTATE (PTY) LTD.

54: Set of Containers

57: The design relates to a set of containers. The features of the design are those of shape and/or configuration.



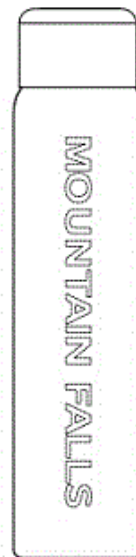
FRONT VIEW OF A FIRST CONTAINER

21: A2024/00538 22: 2024-06-10 23:
43: 2025-01-06

52: Class 9. 24: Part A
71: MOUNTAIN FALLS ESTATE (PTY) LTD.

54: Container

57: The design relates to a container. The features of the design are those of shape and/or configuration.



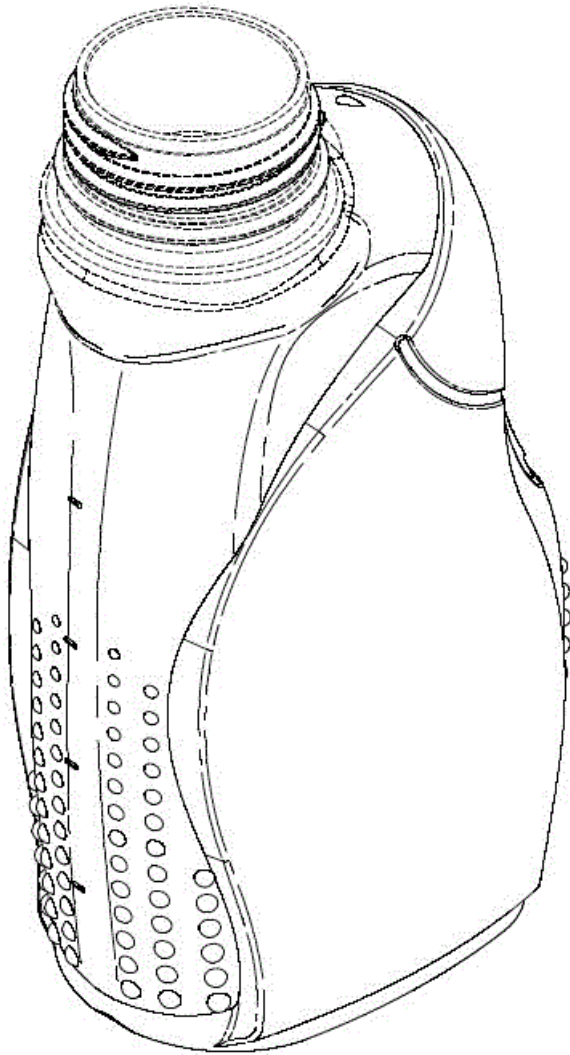
FRONT VIEW

21: A2024/00545 22: 2024-06-12 23:
43: 2024-06-12

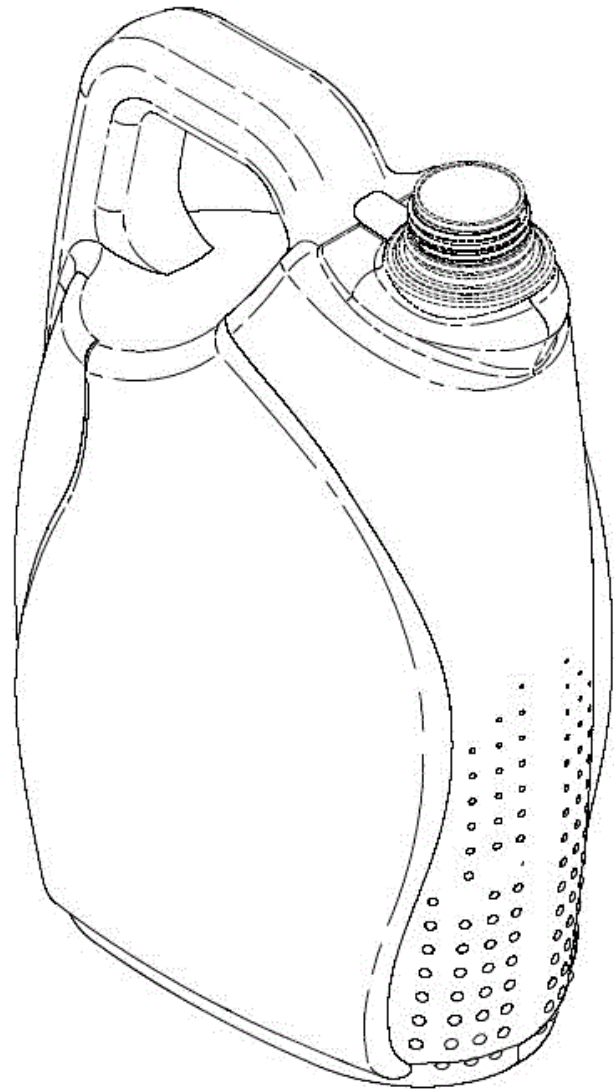
52: Class 9 24: Part A
71: SASOL OIL (PTY) LTD

54: BOTTLES

57: A bottle has opposite sides that are connected by opposite ends, respectively providing mirrored major faces and differing minor faces. Each major face comprises a major portion that is raised relative to surrounds along wave-like edges, narrowing to slant away from a neck and meet a flush ribbon that traverses one of the minor faces, thus connecting the major portions of the major faces. Minor portions of the major faces transition into the minor faces, which are curved. One minor face is convex from side-to-side and wave-shaped from top to bottom, having a recessed concave upper portion and a bulging convex lower portion, each carrying arrangements of circular formations. The opposite minor face is convex from side-to-side, terminating in an outwardly flaring step short of the neck and carrying an arrangement of circular formations on a lower portion thereof. The neck is offset from a central position between the ends.



of the neck and carrying an arrangement of circular formations on a lower portion thereof. The neck is offset from a central position between the ends.



21: A2024/00546 22: 2024-06-12 23:
43: 2024-06-12
52: Class 9 24: Part A
71: SASOL OIL (PTY) LTD

54: BOTTLES

57: A bottle has opposite sides that are connected by opposite ends, respectively providing mirrored major faces and differing minor faces. Each major face comprises a major portion that is raised relative to surrounds along wave-like edges, narrowing to slant away from a neck toward a handle. Minor portions of the major faces transition into the minor faces, which are curved. One, shorter, minor face bulges from top to bottom and is convex from side-to-side, having a portion of the handle projecting along an upper part thereof and a lower portion which carries an arrangement of circular formations. The opposite, taller, minor face is convex from side-to-side, terminating in an outwardly flaring step short

21: A2024/00568 22: 2024-06-13 23:
43: 2025-01-06
52: Class 09 24: Part A
71: TEQAL (PTY) LTD

54: A LID

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a lid substantially as shown in the accompanying representations, irrespective of any colour, images or text applied to the lid, and irrespective of any features or objects shown in broken lines.

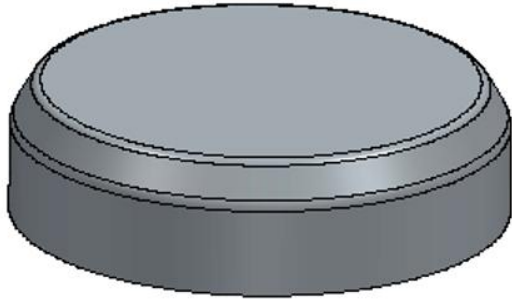
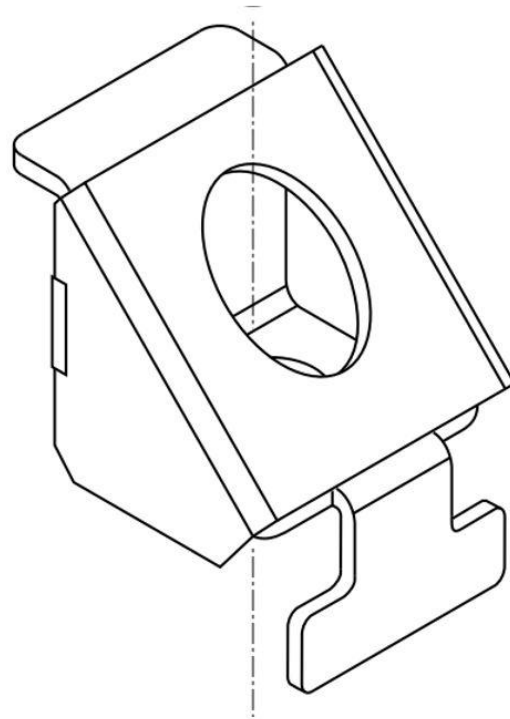


Figure 1

Perspective view from the top of a first embodiment of the lid



21: A2024/00569 22: 2024-06-13 23:
43: 2025-01-06
52: Class 12. 24: Part A
71: GREAT WALL MOTOR COMPANY LIMITED
33: CN 31: 202330822415.7 32: 2023-12-14
54: Automobile
57: The design relates to an automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2024/00584 22: 2024-06-19 23:
43: 2025-01-06
52: Class 09 24: Part A
71: ONEWORLD INVESTMENTS (PTY) LTD
54: A CONTAINER
57: The features of the design for which protection is claimed include the pattern, and/or the shape, and/or the configuration, and/or the ornamentation of a container, substantially as shown in the representations, but those aspects shown in dotted broken lines are optional and do not form an essential part of the design.

21: A2024/00582 22: 2024-06-19 23:
43: 2025-01-06
52: Class 13 24: Part A
71: KVM Assets (Pty) Ltd
54: A SOLAR END BRACKET
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern and/or ornamentation of a solar end bracket, configured to secure a solar panel to a solar mounting rail, substantially as illustrated in Figures 1 to 3 of the accompanying representations.

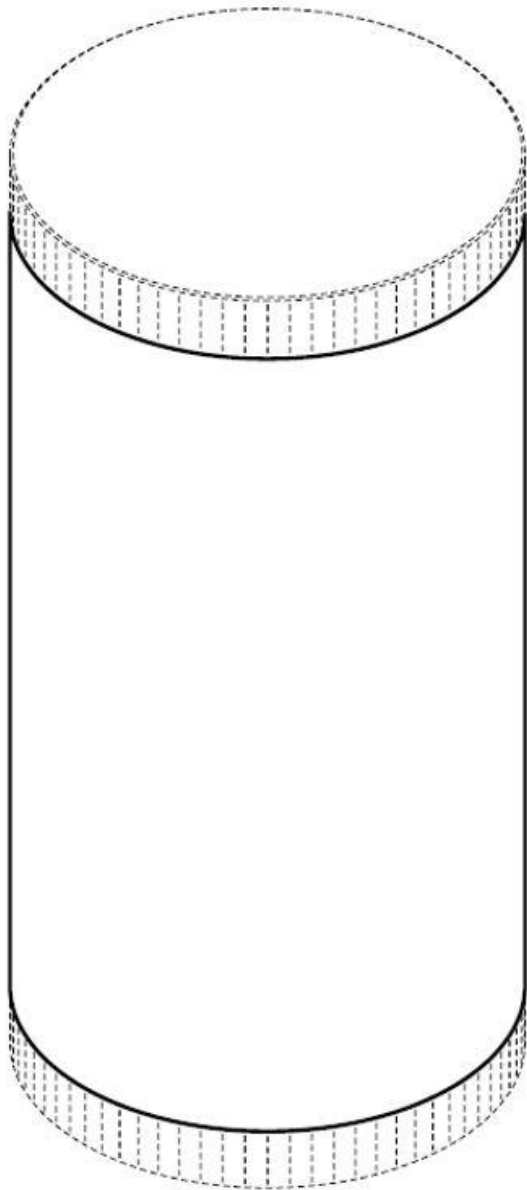


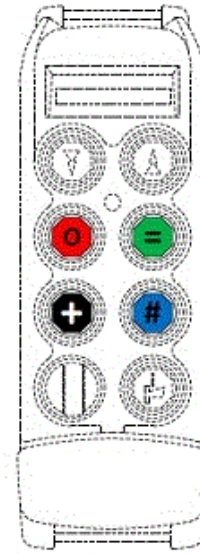
Figure 1

A perspective view of a container

21: A2024/00587 22: 2024-06-19 23:
43: 2025-01-21
52: Class 14. 24: Part A
71: ROLDAN S.A.
33: EM 31: 15045127 32: 2023-12-20

54: Remote Control

57: The design relates to a remote control. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

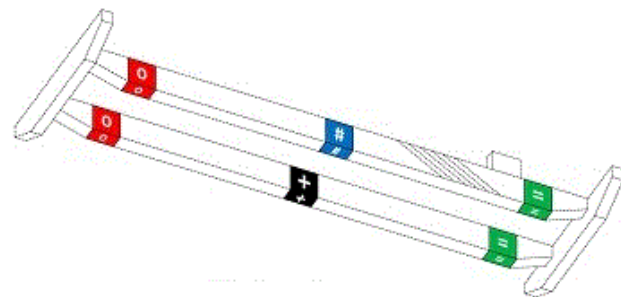


FRONT VIEW

21: A2024/00588 22: 2024-06-19 23:
43: 2025-01-06
52: Class 12. 24: Part A
71: ROLDAN S.A.
33: EM 31: 15045098 32: 2023-12-20

54: Gantry Crane

57: The design relates to a gantry crane. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

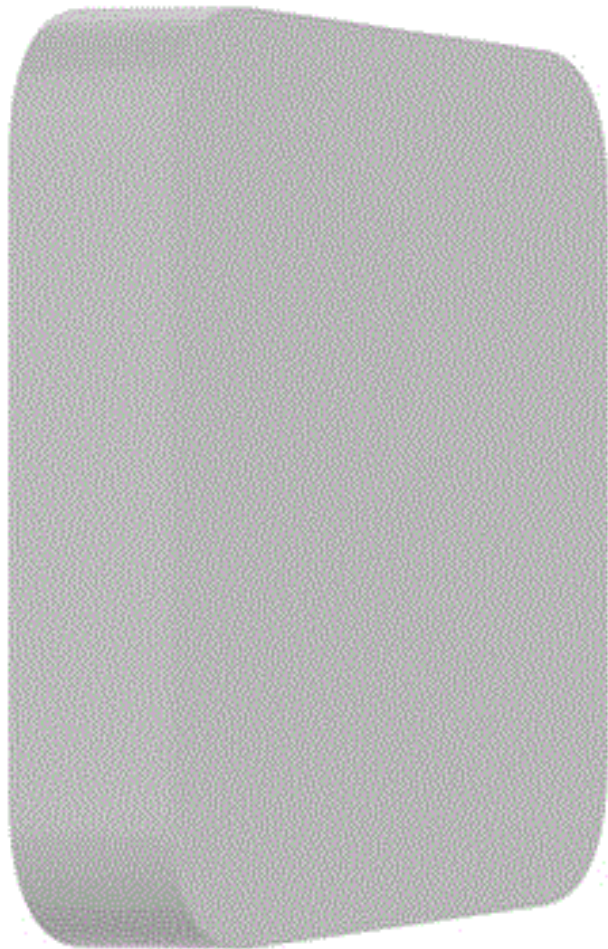


BOTTOM AND FRONT PERSPECTIVE VIEW

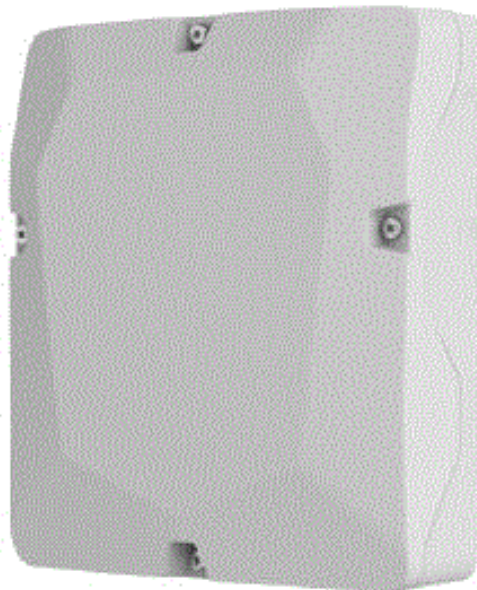
21: A2024/00595 22: 2024-06-20 23:
43: 2025-01-06
52: Class 14 24: Part A
71: AJAX SYSTEMS CYPRUS HOLDINGS LTD
33: WO 31: WIPO142258 32: 2023-12-22

54: NETWORK VIDEO RECORDERS

57: The ornamental design relates to a wireless network video recorder. The features of the design are those of shape and/or configuration as shown and described. The video recorder provides for motion detection and video scenario creation.

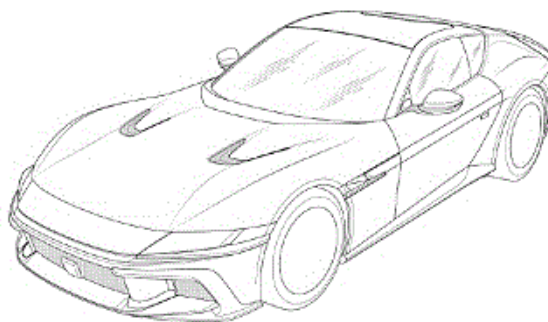


21: A2024/00596 22: 2024-06-20 23:
43: 2025-01-06
52: Class 3 24: Part A
71: AJAX SYSTEMS CYPRUS HOLDINGS LTD
33: WO 31: WIPO142827 32: 2024-01-09
54: CASING FOR SECURITY DEVICES
57: The ornamental design relates to a Casing for securing security devices from sabotage, the case has latches for attaching devices, includes a tamper board and fastening means. The features of the design are those of shape and/or configuration as shown and described.



21: A2024/00602 22: 2024-06-20 23:
43: 2025-01-06
52: Class 12. 24: Part A
71: FERRARI S.P.A.
33: IB 31: 142158 32: 2023-12-22

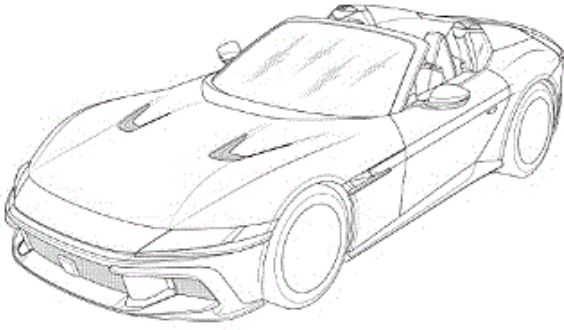
54: Car
57: The design relates to a car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



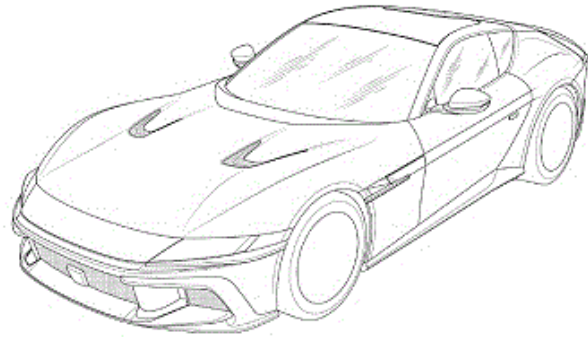
FRONT PERSPECTIVE VIEW

21: A2024/00603 22: 2024-06-20 23:
43: 2025-01-06
52: Class 12. 24: Part A
71: FERRARI S.P.A.
33: IB 31: 142158 32: 2023-12-22

54: Car
57: The design relates to a car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW



FRONT PERSPECTIVE VIEW

21: A2024/00604 22: 2024-06-20 23:
43: 2025-01-06
52: Class 12. 24: Part A
71: FERRARI S.P.A.
33: IB 31: 142158 32: 2023-12-22

54: Car

57: The design relates to a car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

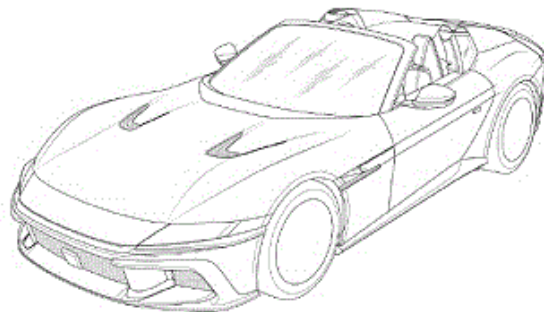
21: A2024/00606 22: 2024-06-20 23:
43: 2025-01-06
52: Class 21. 24: Part A
71: FERRARI S.P.A.
33: IB 31: 142149 32: 2023-12-22

54: Toy Car

57: The design relates to a toy car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW



FRONT PERSPECTIVE VIEW

21: A2024/00605 22: 2024-06-20 23:
43: 2025-01-06
52: Class 21. 24: Part A
71: FERRARI S.P.A.
33: IB 31: 142149 32: 2023-12-22

54: Toy Car

57: The design relates to a toy car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

21: A2024/00607 22: 2024-06-20 23:
43: 2025-01-06
52: Class 21. 24: Part A
71: FERRARI S.P.A.
33: IB 31: 142149 32: 2023-12-22

54: Toy Car

57: The design relates to a toy car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

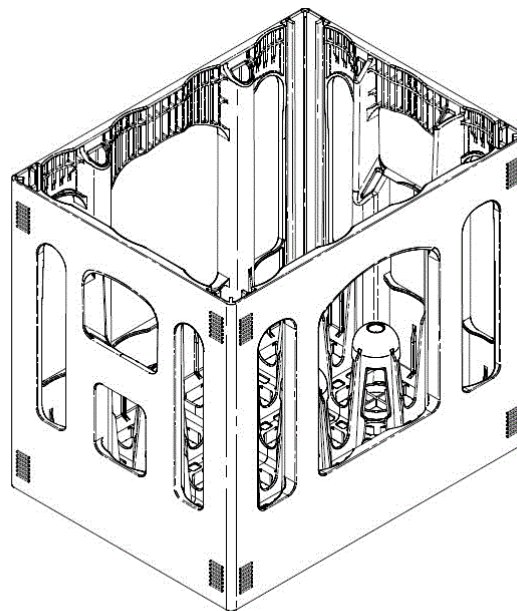


FRONT PERSPECTIVE VIEW

21: A2024/00611 22: 2024-06-24 23:
43: 2024-06-24
52: Class 9 24: Part A
71: MPACT PLASTIC CONTAINERS CASTLEVIEW
PROPRIETARY LIMITED

54: Crates

57: The design is applied to a crate as shown in the accompanying representations. The crate is open-topped and has a generally rectangular shape and comprises a base wall, a pair of opposite side walls and a pair of opposite end walls. The crate includes a number of spaced upstanding bottle support formations which extend upwardly from the base wall, the bottle support formations being spaced from one another so as to receive bottles in the spaces between them. The bottle support formations have hollow, open configurations which taper towards rounded upper ends. The side walls and the end walls have openings of various sizes and configurations defined therein. The base wall defines a number of apertures providing for a washing liquid to enter the crate and drain therefrom, for washing of bottles located in the crate.

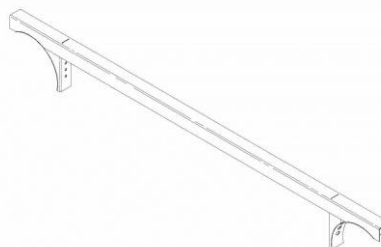


Three-dimensional view

21: A2024/00614 22: 2024-06-24 23:
43: 2024-06-24
52: Class 8 24: Part A
71: AMBERSKIES TRADING CC

54: Braces for Ballast Tanks

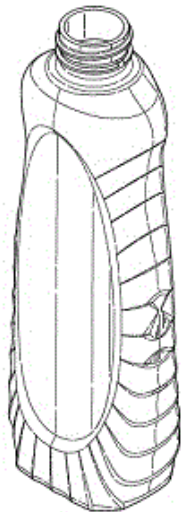
57: This design relates to braces or brackets for a ballast tanks in a water bioremediation system substantially as shown in the accompanying representations. The brace has an elongate body with a pair of arcuate connecting portions provided adjacent opposite ends of the elongate body for connection to cylindrical ballast tanks having circular end profiles.



Three-dimensional view

21: A2024/00624 22: 2024-06-26 23:
43: 2025-01-06
52: Class 9. 24: Part A
71: UNILEVER GLOBAL IP LIMITED
33: EM 31: 015047639-0001 32: 2024-01-17
54: Bottle

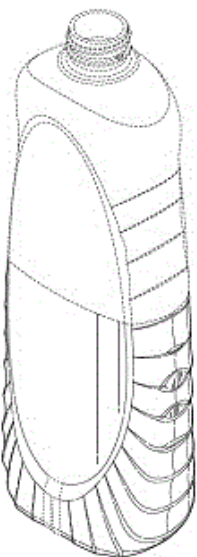
57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2024/00625 22: 2024-06-26 23:
43: 2025-01-06
52: Class 9. 24: Part A
71: UNILEVER GLOBAL IP LIMITED
33: EM 31: 015047639-0008 32: 2024-01-17
54: Bottle

57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP PERSPECTIVE VIEW

21: A2024/00626 22: 2024-06-26 23:

43: 2025-01-06
52: Class 9. 24: Part A
71: UNILEVER GLOBAL IP LIMITED
33: EM 31: 015047639-0009 32: 2024-01-17
54: Bottle

57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2024/00635 22: 2024-06-27 23:
43: 2025-01-06
52: Class 23 24: Part A
71: SWAN PLASTICS (PTY) LTD
54: A VENT FITTING SET
57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent fitting set, substantially as shown in the representations.

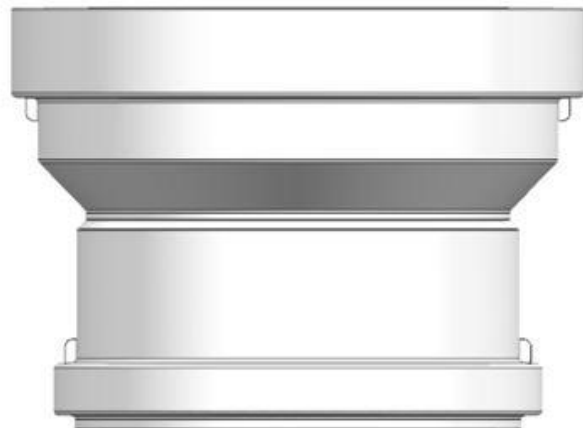


43: 2025-01-06
52: Class 23 24: Part A
71: SWAN PLASTICS (PTY) LTD
54: A VENT FITTING SET
57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent fitting set, substantially as shown in the representations.



21: A2024/00636 22: 2024-06-27 23:
43: 2025-01-06
52: Class 23 24: Part A
71: SWAN PLASTICS (PTY) LTD
54: A VENT FITTING SET
57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent fitting set, substantially as shown in the representations.

21: A2024/00638 22: 2024-06-27 23:
43: 2025-01-06
52: Class 23 24: Part A
71: SWAN PLASTICS (PTY) LTD
54: A VENT CONNECTOR
57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent connector, substantially as shown in the representations.



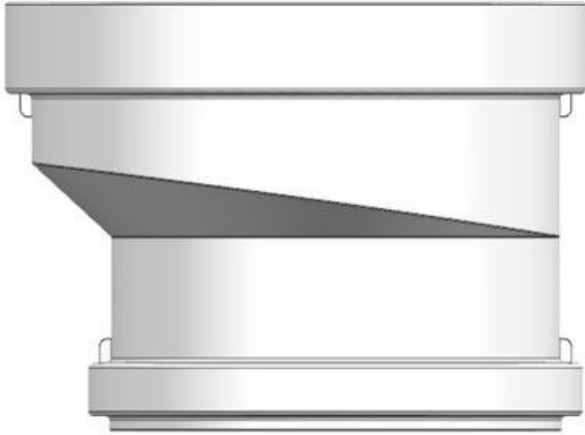
21: A2024/00637 22: 2024-06-27 23:

21: A2024/00639 22: 2024-06-27 23:

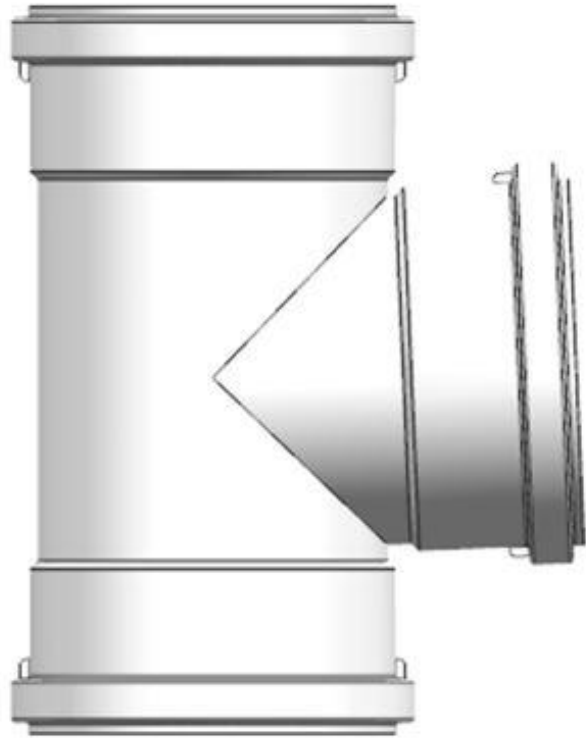
43: 2025-01-06
52: Class 23 24: Part A
71: SWAN PLASTICS (PTY) LTD

54: A VENT CONNECTOR

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent connector, substantially as shown in the representations.



ornamentation of a vent fitting set, substantially as shown in the representations.



21: A2024/00640 22: 2024-06-27 23:
43: 2025-01-06
52: Class 23 24: Part A
71: SWAN PLASTICS (PTY) LTD

54: A VENT FITTING SET

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent fitting set, substantially as shown in the representations.



21: A2024/00642 22: 2024-06-27 23:
43: 2025-01-06
52: Class 23 24: Part A
71: SWAN PLASTICS (PTY) LTD

54: A VENT FITTING SET

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent fitting set, substantially as shown in the representations.

21: A2024/00641 22: 2024-06-27 23:
43: 2025-01-06
52: Class 23 24: Part A
71: SWAN PLASTICS (PTY) LTD

54: A VENT FITTING SET

57: The features of the design are those of pattern and/or shape and/or configuration and/or



21: A2024/00643 22: 2024-06-27 23:
43: 2025-01-06
52: Class 23 24: Part A
71: SWAN PLASTICS (PTY) LTD
54: A VENT STRAP SADDLE
57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent strap saddle, substantially as shown in the representations.



21: A2024/00645 22: 2024-06-27 23:
43: 2025-01-06
52: Class 25 24: Part A
71: SWAN PLASTICS (PTY) LTD
54: A VENT FITTING SET
57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent fitting set, substantially as shown in the representations.



21: A2024/00647 22: 2024-06-27 23:
43: 2025-01-06
52: Class 25 24: Part A
71: SWAN PLASTICS (PTY) LTD

54: A VENT FITTING SET

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent fitting set, substantially as shown in the representations.



21: A2024/00646 22: 2024-06-27 23:
43: 2025-01-06
52: Class 25 24: Part A
71: SWAN PLASTICS (PTY) LTD

54: A VENT FITTING SET

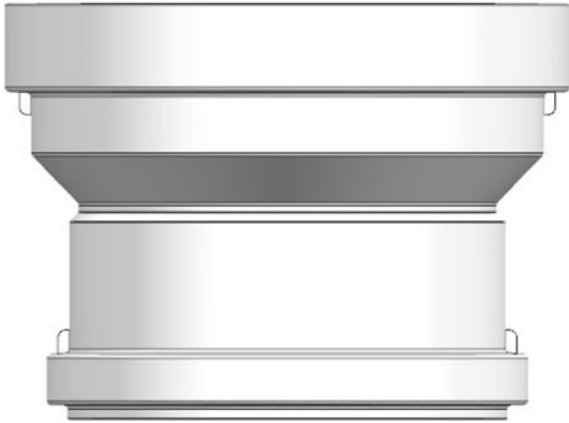
57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent fitting set, substantially as shown in the representations.



21: A2024/00648 22: 2024-06-27 23:
43: 2025-01-06
52: Class 25 24: Part A
71: SWAN PLASTICS (PTY) LTD

54: A VENT CONNECTOR

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent connector, substantially as shown in the representations.



21: A2024/00649 22: 2024-06-27 23:

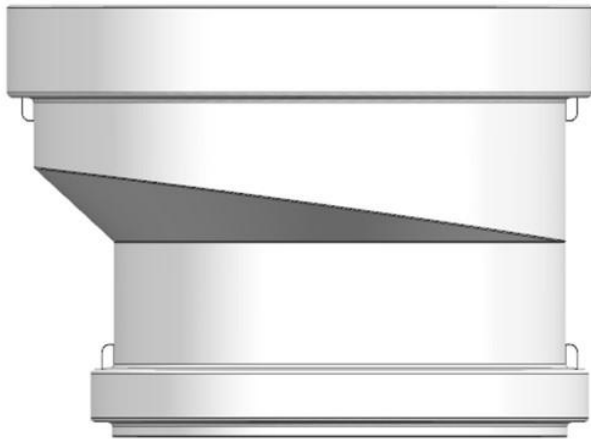
43: 2025-01-06

52: Class 25 24: Part A

71: SWAN PLASTICS (PTY) LTD

54: A VENT CONNECTOR

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent connector, substantially as shown in the representations.



21: A2024/00650 22: 2024-06-27 23:

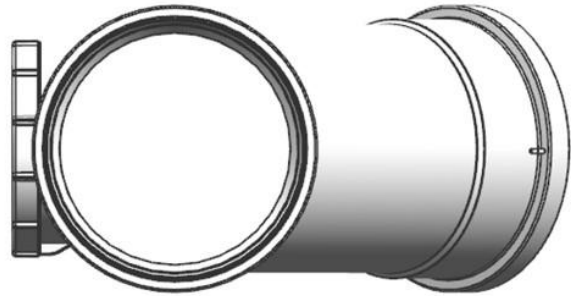
43: 2025-01-06

52: Class 25 24: Part A

71: SWAN PLASTICS (PTY) LTD

54: A VENT FITTING SET

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent fitting set, substantially as shown in the representations.



21: A2024/00651 22: 2024-06-27 23:

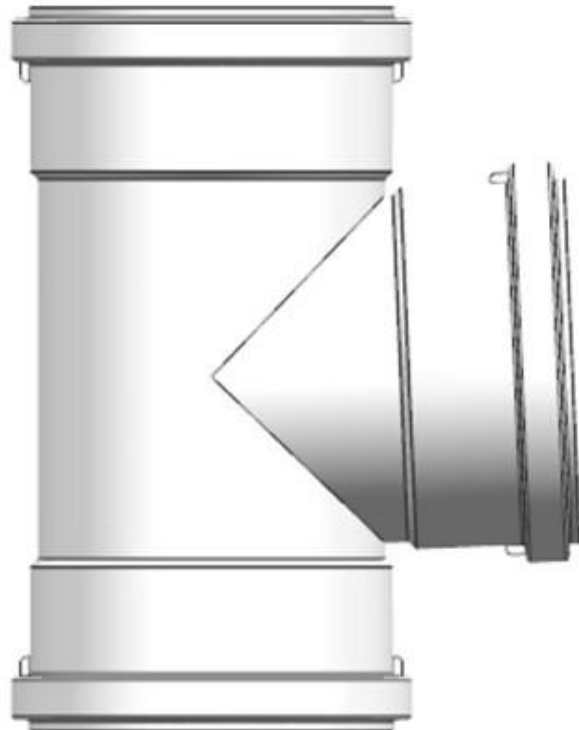
43: 2025-01-06

52: Class 25 24: Part A

71: SWAN PLASTICS (PTY) LTD

54: A VENT FITTING SET

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent fitting set, substantially as shown in the representations.



21: A2024/00652 22: 2024-06-27 23:

43: 2025-01-06

52: Class 25 24: Part A

71: SWAN PLASTICS (PTY) LTD

54: A VENT FITTING SET

57: The features of the design are those of pattern and/or shape and/or configuration and/or

ornamentation of a vent fitting set, substantially as shown in the representations.



21: A2024/00653 22: 2024-06-27 23:
43: 2025-01-06
52: Class 25 24: Part A
71: SWAN PLASTICS (PTY) LTD
54: A VENT STRAP SADDLE

57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation of a vent strap saddle, substantially as shown in the representations.

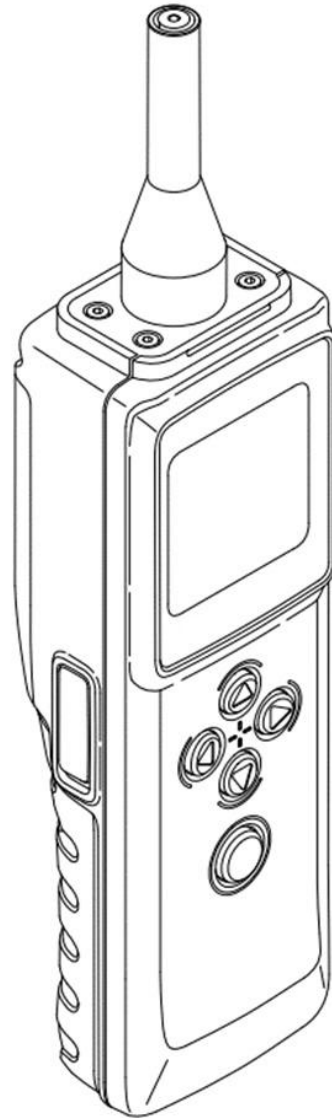
21: A2024/00660 22: 2024-07-01 23:
43: 2025-02-14

52: Class 12 24: Part A
71: CEAT LIMITED

33: IN 31: 407083-001 32: 2024-02-09

54: TYRE

57: The design is applied to a tyre. The features of the design for which protection is claimed are those of the configuration and/or pattern of the tyre, substantially as illustrated in the accompanying representation.



21: A2024/00699 22: 2024-07-17 23:
43: 2025-02-14
52: Class 10 24: Part A
71: TLV CO., LTD.
33: JP 31: 2024-001404 32: 2024-01-25

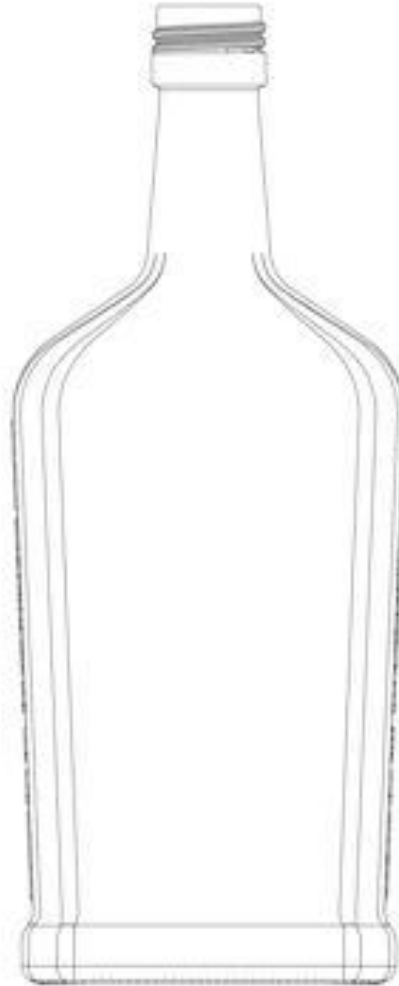
54: MEASURING INSTRUMENT

57: The design is applied to a measuring instrument. 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 measuring instrument, substantially as illustrated in the accompanying representation.

21: A2024/00721 22: 2024-07-19 23:
43: 2025-02-14
52: Class 09 24: Part A
71: POLYOAK PACKAGING (PTY) LTD

54: A BOTTLE

57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the bottle, substantially as illustrated in the accompanying representations.

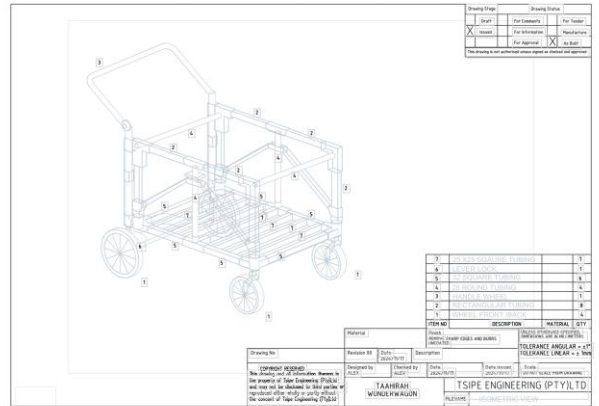


21: A2024/00742 22: 2024-07-29 23:
43: 2025-02-14
52: Class 09 24: Part A
71: EDWARD SNELL AND COMPANY (PTY) LTD
54: A BOTTLE
57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration of the bottle, substantially as illustrated in the accompanying representations.

21: A2024/00743 22: 2024-07-29 23:
43: 2025-02-14
52: Class 09 24: Part A
71: EDWARD SNELL AND COMPANY (PTY) LTD
54: A BOTTLE
57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the bottle, substantially as illustrated in the accompanying representations.



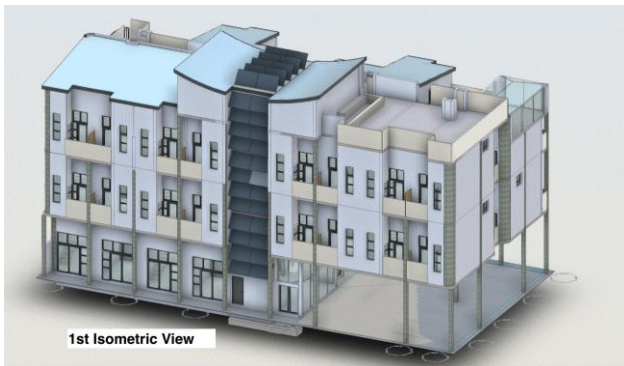
21: A2025/00007 22: 2025-01-02 23:
 43: 2025-02-17
 52: Class 12 24: Part A
 71: Taahirah Demaine
54: STROLLER WAGON
 57: The design relates to a Stroller wagon. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



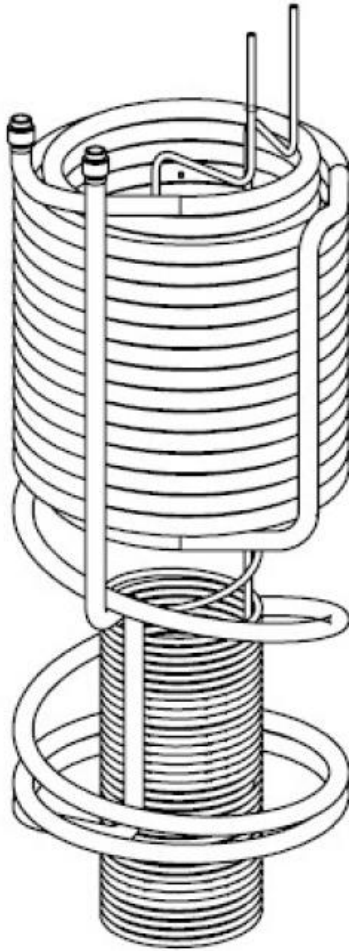
21: A2025/00089 22: 2025-01-20 23:
 43: 2025-02-17
 52: Class 12 24: Part A
 71: KAP Automotive (Pty) Ltd
54: SPORTS BAR
 57: The design relates to a Sports Bar. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2024/01242 22: 2024-12-03 23:
 43: 2025-01-07
 52: Class 25 24: Part A
 71: DLA Proprietary Limited
54: APARTMENT COMPLEX
 57: The design relates to a Apartment Complex. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: F2021/01541 22: 2021-12-17 23:
 43: 2025-02-17
 52: Class 23 24: Part F
 71: MAGNETO THERMALS (PROPRIETARY) LIMITED
54: ELECTRIC WATER HEATING COIL CONFIGURATION
 57: The features of this design for which protection are claimed include the shape and/or configuration of heating coils of an electric water heater substantially as illustrated in the accompanying representations.



PERSPECTIVE VIEW

21: F2022/00480 22: 2022-05-06 23:
43: 2025-02-17
52: Class 08 24: Part F
71: RSC MINING (PTY) LTD
54: ROCKBOLT

57: The novelty of the design resides in the shape and/or configuration of a ROCKBOLT, of indeterminate length, incorporating at least one hinge system for folding the ROCKBOLT into a stowage configuration or extending the ROCKBOLT into an operative configuration.



21: F2022/00482 22: 2022-05-06 23:
43: 2025-02-17
52: Class 25 24: Part F
71: RSC MINING (PTY) LTD

54: ROCKBOLT

57: The novelty of the design resides in the shape and/or configuration of a ROCKBOLT, of indeterminate length, incorporating at least one hinge system for folding the ROCKBOLT into a stowage configuration or extending the ROCKBOLT into an operative configuration.



21: F2022/00634 22: 2022-06-07 23:
43: 2025-02-17
52: Class 08 24: Part F
71: RSC MINING (PTY) LTD

54: CONNECTOR

57: The novelty of the design resides in the shape and/or configuration of a CONNECTOR, incorporating and indicator used for connecting two rock bolt components and indicating the assembly status of a modular rock bolt.



21: F2022/00636 22: 2022-06-07 23:
43: 2025-02-17
52: Class 29 24: Part F
71: RSC MINING (PTY) LTD

54: INDICATOR

57: The novelty of the design resides in the shape and/or configuration of an Indicator forming part of a connector used for connecting two rock bolt components and indicating the assembly status of a modular rock bolt.



21: F2022/00636 22: 2022-06-07 23:
43: 2025-02-17
52: Class 29 24: Part F
71: RSC MINING (PTY) LTD

54: INDICATOR

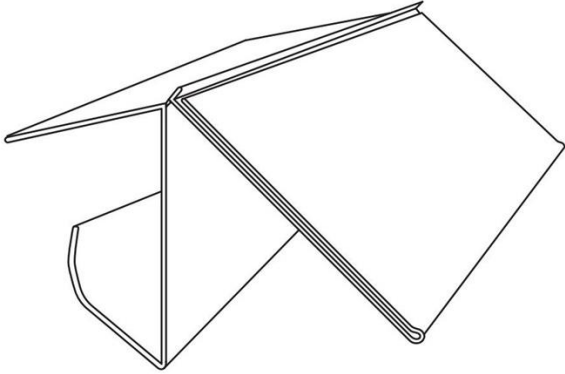
57: The novelty of the design resides in the shape and/or configuration of an Indicator forming part of a connector used for connecting two rock bolt components and indicating the assembly status of a modular rock bolt.



21: F2024/00047 22: 2024-01-15 23:
43: 2025-02-17
52: Class 20 24: Part F
71: THREE NIGHT OWLS (PTY) LTD

54: A DISPLAY DEVICE

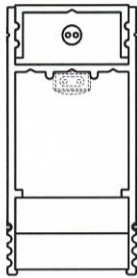
57: The novelty of the design resides in the shape and configuration of a DISPLAY DEVICE substantially as shown in the accompanying Figure. The DISPLAY DEVICE has an elongate body of indeterminate length which has a uniform profile along the entire length. The profile of the device is adjustable between first and second configurations.



21: F2024/00438 22: 2024-05-08 23:
43: 2024-12-04
52: Class 26 24: Part F
71: TRUVAAL (PTY) LTD

54: PROFILE

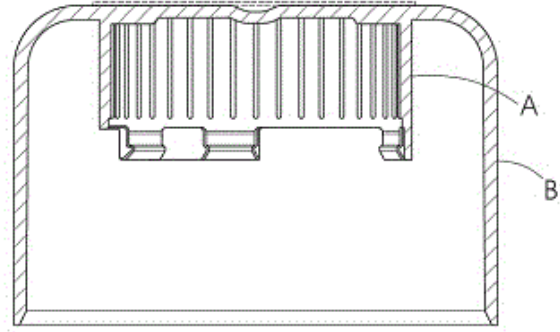
57: The novelty of the design resides in the shape and/or configuration of an elongate profile, of variable length, with an insert, substantially as shown in the accompanying representations. The features illustrated in dotted outline are for illustrative purposes only and do not form part of the design.



21: F2024/00539 22: 2024-06-10 23:
43: 2025-01-06
52: Class 9. 24: Part F
71: MOUNTAIN FALLS ESTATE (PTY) LTD.

54: Cap for a Container

57: The design relates to a cap for a container. The features of the design are those of shape and/or configuration.

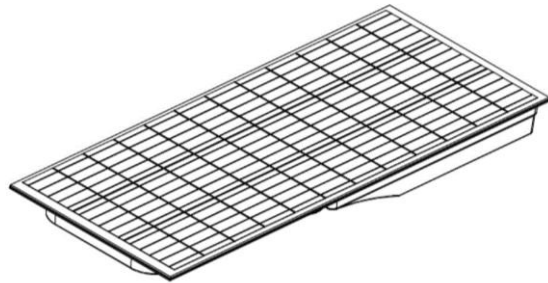


CROSS-SECTION VIEW TAKEN ALONG A-A

21: F2024/00580 22: 2024-06-18 23:
43: 2024-06-18
52: Class 26 24: Part F
71: SCHRÉDER S.A.

54: SOLAR LUMINAIRE

57: The design is applied to a solar luminaire. The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of a solar luminaire, substantially as illustrated in the accompanying representations.

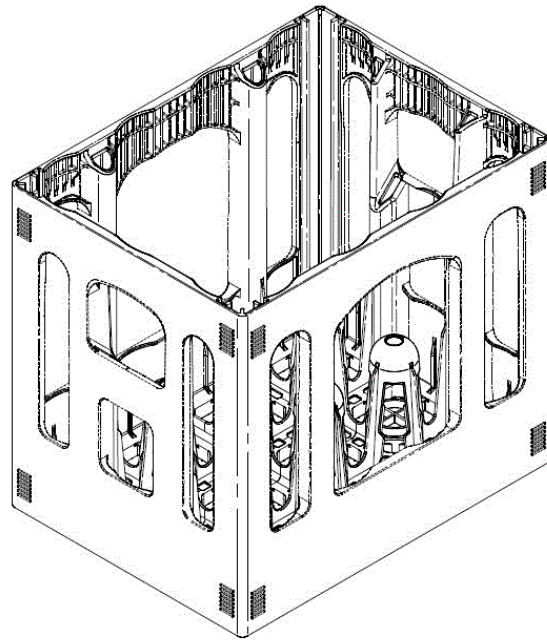
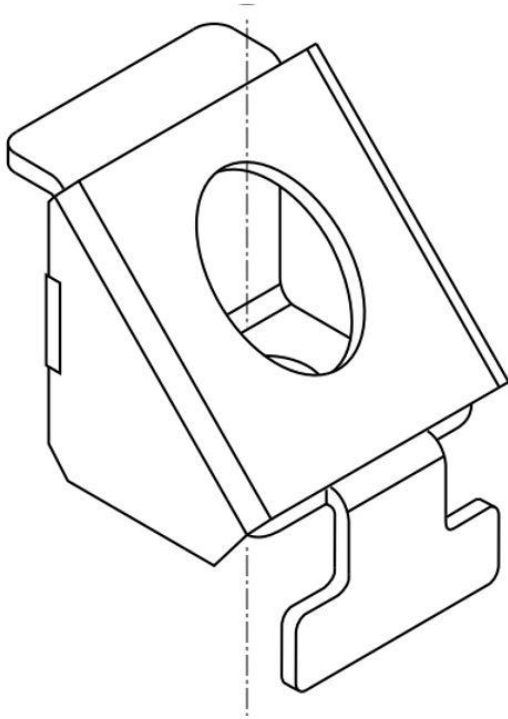


Three-dimensional view from above

21: F2024/00583 22: 2024-06-19 23:
43: 2025-01-06
52: Class 13 24: Part F
71: KVM Assets (Pty) Ltd

54: A SOLAR END BRACKET

57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of a solar end bracket, configured to secure a solar panel to a solar mounting rail, substantially as illustrated in Figures 1 to 3 of the accompanying representations. It being a definitive feature of the solar end bracket that a cover plate and side walls extend from the base plate.



Three-dimensional view

21: F2024/00612 22: 2024-06-24 23:
43: 2024-06-24
52: Class 9 24: Part F
71: MPACT PLASTIC CONTAINERS CASTLEVIEW
PROPRIETARY LIMITED

54: Crates

57: The crate is open-topped and has a generally rectangular shape and comprises a base wall, a pair of opposite side walls and a pair of opposite end walls. The crate includes a number of spaced upstanding bottle support formations which extend upwardly from the base wall, the bottle support formations being spaced from one another so as to receive bottles in the spaces between them. The bottle support formations have hollow, open configurations which taper towards rounded upper ends. The base wall defines a number of apertures providing for a washing liquid to enter the crate and drain therefrom.

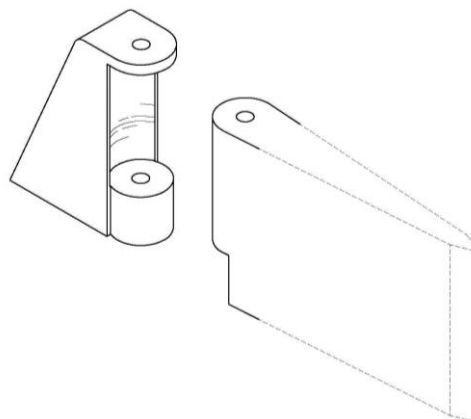
21: F2024/00613 22: 2024-06-24 23:
43: 2025-01-06
52: Class 25 24: Part F
71: BOS, Tyron

54: A SECURING DEVICE

57: The design is applied to a securing device. The features of the design for which protection is claimed include the shape, pattern and/or configuration of a securing device as shown in the drawings, showing the general appearance thereof.



assembly comprises a forwardly projecting cutting portion operatively pivotally mounted to an inclined mounting portion. The mounting portion defines a concave recess in a front face which extends for part of a height of the mounting portion. The concave recess is shaped to receive a complementary, convexly curved posterior edge of the cutting portion. Furthermore, the mounting portion has a part-circular cylindrical raised seat immediately below the concave recess. A rear face of the mounting portion is inclined. At a top of the mounting portion, a forwardly protruding lug extends over the base. The lug and base have registering holes for receiving a fastener. The cutting portion has an inferior concave cutaway for mating with the raised seat of the mounting portion. The cutting portion has a blade which reduces in breadth to form a sharp, distal cutting edge.



21: F2024/00615 22: 2024-06-24 23:
43: 2024-06-24

52: Class 8 24: Part F
71: AMBERSKIES TRADING CC

54: Braces for Ballast Tanks

57: This design relates to braces or brackets for a ballast tanks in a water bioremediation system substantially as shown in the accompanying representations. The brace has an elongate body with a pair of arcuate connecting portions provided adjacent opposite ends of the elongate body for connection to cylindrical ballast tanks having circular end profiles.

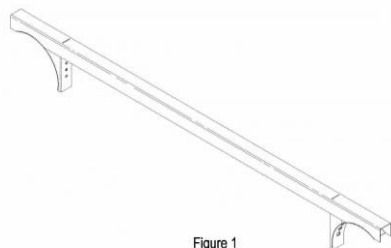


Figure 1
Three-dimensional view

21: F2024/00644 22: 2024-06-27 23:
43: 2024-06-27

52: Class 23 24: Part F
71: WERNER WATER RECYCLING (PTY) LTD.

54: AIR PURIFIERS

57: The design relates to an air purifier for purifying an airstream by making use of water filtration and centrifugal action. The air purifier includes a hollow body which comprises a circular cylindrical housing and a frusto-conical base joined to a lower periphery of the housing. A water filtration zone which operatively holds water is defined by the base and the lower periphery of the circular cylindrical housing. A pipe elbow which protrudes through the body defines a feed inlet leading into the water filtration zone. A flanged pipe which protrudes from the top of body defines a circular overflow outlet for discharging of filtered air. The base has a lower valve and defines an underflow outlet for discharging of filtered material. Three spatially separated vortex inducers are arranged inside the hollow body

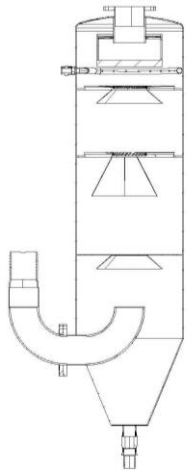
21: F2024/00634 22: 2024-06-27 23:
43: 2024-06-27

52: Class 15 24: Part F
71: PAULCO (PROPRIETARY) LIMITED

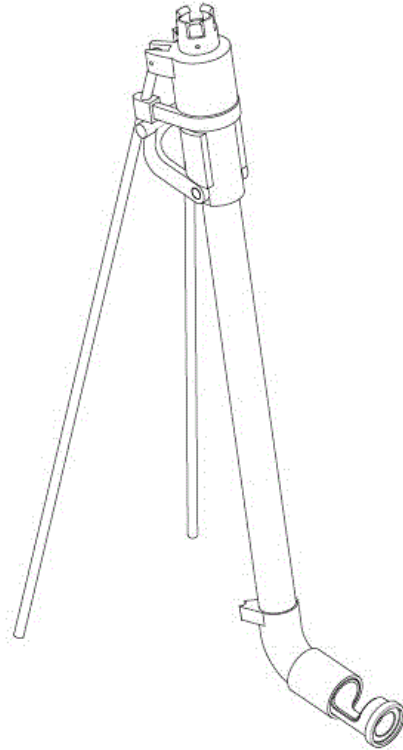
54: Splitter assemblies for separators

57: The design relates to a splitter or cutter assembly for a spiral separator. The splitter

inducing centrifugal action. Three spatially separated diverging cones are arranged inside the hollow body and serve to deflect water downwardly.



Sectional view



A FRONT PERSPECTIVE VIEW OF THE BALL COLLECTOR AND DISPENSER IN ITS BALL DISPENSING CONFIGURATION FOR USE

21: F2024/00702 22: 2024-07-17 23:
 43: 2025-02-14
 52: Class 21 24: Part F
 71: VAN EEDEN, Christiaan Hieronymans Bornman
54: BALL COLLECTOR AND DISPENSER
 57: The design relates to a ball collector and dispenser. The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of a ball collector and dispenser, more specifically for a golf ball collector and dispenser substantially as illustrated in the accompanying representations, irrespective of the features shown in broken lines.

21: F2024/00722 22: 2024-07-19 23:
 43: 2025-02-14
 52: Class 09 24: Part F
 71: POLYOAK PACKAGING (PTY) LTD
54: A BOTTLE
 57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the bottle, substantially as illustrated in the accompanying representations.



Three-dimensional view of a barbecue grid support in a first arrangement

21: F2024/00761 22: 2024-07-31 23:
43: 2025-02-14
52: Class 07 24: Part F
71: STOP4TH BOERDERY (PTY) LTD

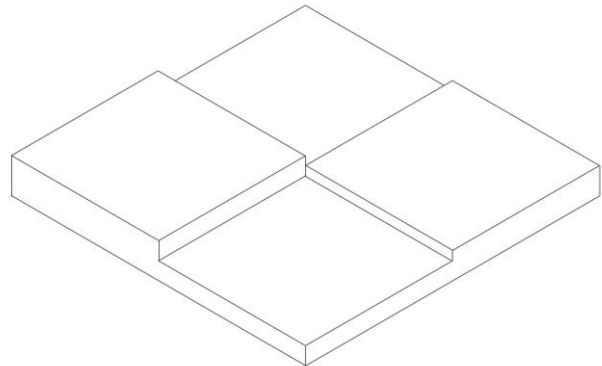
54: BARBECUE GRID SUPPORTS

57: The design is for a barbecue grid support, in particular for a barbecue grid support which is configurable to support a barbecue grid at a plurality of different orientations relative to a fire. The barbecue grid support includes at least two generally rectangular shaped frames with opposing sides having protruding ends that form a base. The frames are made of steel bars and can be connected to each other via hinges. Each frame includes equally spaced reinforcing bars at right angles to the opposing sides of the frame extending between the opposing sides, to be used as racks across the frame suitable for altering the elevation of the barbecue grid relative to a surface where the fire is situated. Foot pieces are removably connectable to the protruding ends of each frame to allow each frame to stand at an angle relative to the surface where the fire is situated.

21: F2024/00807 22: 2024-08-15 23:
43: 2025-03-06
52: Class 25 24: Part F
71: BANTJES, Neville Don

54: CLADDING PRODUCT

57: The cladding product has a square front profile and includes four quarters of which two diagonally opposing quarters are the thinnest and the remaining two quarters have different thicknesses.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS**NOTICES OF ACCEPTANCE****(Applications filed in terms of Act No. 62 of 1977)**

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

No records available

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

The below trade marks restorations were advertised in the February 2025 journal whereas they were granted and renewed therefore they should not have been advertised.

- Trade mark registration no. **2011/23504** YOUNIQUE... IS WHAT YOU ARE in class 3
- Trade mark registration no. **2012/24559** DILIGENT BROADBOOKS in class 35
- Trade mark registration no. **2013/01794** STRAUSS RECOVERY SOLUTIONS in class 35
- Trade mark registration no. **2013/01798** STRAUSS & DEVICE in class 35
- Trade mark registration no. **2013/01799** STRAUSS ASSET SOLUTIONS in class 35
- Trade mark registration no. **2013/01808** IN2ASSETS.COM in class 35
- Trade mark registration no. **2013/01996** STRAUSS DALY ATTORNEYS in class 35
- Trade mark registration no. **2013/01793** STRAUSS RECOVERY SOLUTIONS in class 36
- Trade mark registration no. **2013/01797** STRAUSS & DEVICE in class 36
- Trade mark registration no. **2013/01800** STRAUSS ASSET SOLUTIONS in class 36
- Trade mark registration no. **2013/01809** IN2ASSETS.COM in class 36
- Trade mark registration no. **2013/01997** STRAUSS DALY ATTORNEYS in class 36
- Trade mark registration no. **2013/01795** STRAUSS RECOVERY SOLUTIONS in class 45
- Trade mark registration no. **2013/01796** STRAUSS & DEVICE in class 45
- Trade mark registration no. **2013/01801** STRAUSS ASSET SOLUTIONS in class 45
- Trade mark registration no. **2013/01810** IN2ASSETS.COM in class 45

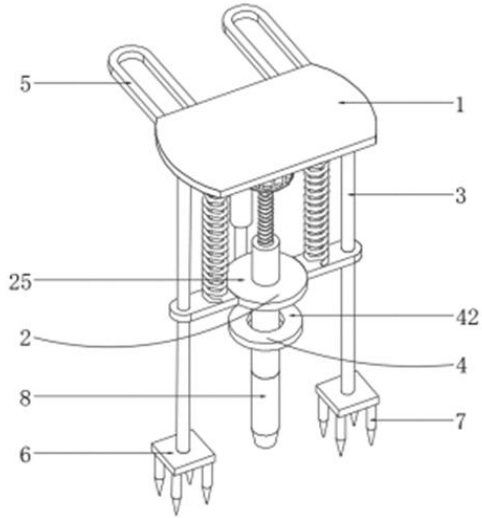
PATENT CORRECTION NOTICES

The patent application number **2024/05396** was advertised in the journal of **26 February 2025** on page **185** with incorrect order of inventors and it should have appeared as the one below, but the publication date will remain the **26/02/2025** as the valid publication date.

21: 2024/05396. 22: 2024/07/11. 43: 2025/01/21 51: G01N 71: Inner Mongolia Academy of Agricultural & Animal Husbandry sciences, Hulunbuir Agricultural Reclamation Tenihe Agricultural Pasture Co., Ltd.

72: **Wang Jianguo, Lu Zhanyuan, Cheng Yuchen, Zhang Dejian, Ren Yongfeng, Zhao Xiaoqing, Chen Liyu, Zhao Kun, Liu Jiawei, Pan Yong, Wei Yulong, Yan Wei, Yan Chunrui**

54: SAMPLING DEVICE WITH LIMIT STRUCTURE FOR SOIL TESTING 00: - Disclosed is a sampling device with a limit structure for soil testing, falling within the technical field of soil testing. An automatic lifting sampling unit includes a motor and spring strips, both the motor and the spring strips being fixedly connected to a bottom of a top plate, an output end of the motor being fixedly connected to a threaded rod, an outer surface of the threaded rod being threadedly connected to a spiral bushing, an outer surface of the spiral bushing being fixedly connected to a connecting disk, an outer surface of the connecting disk being fixedly connected to extension arms, and the extension arms being fixedly connected to the spring strips. According to the present application, by the lifting sampling unit, the device can be quickly inserted into soil for sampling, reducing the direct contact between an operator and the soil, and lowering the safety risk; and by precise control of the lifting height, it is able to obtain more accurate and reliable soil samples, facilitating the subsequent analysis of the data and research, and reducing the work intensity of the operator, so as to make the sampling work more easy.



DESIGNS CORRECTION NOTICES

No records available

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for March 2025

Number of Advertised Patents: 675

Application Number	Patent Title	Filing Date
2016/06320	HUMAN PLASMA KALLIKREIN INHIBITORS	2016/09/13
2016/07053	DEFINED COMPOSITION GENE MODIFIED T-CELL PRODUCTS	2016/10/13
2016/07735	A PROCESS, APPARATUS AND SYSTEM FOR TREATING FRUITS OR VEGETABLES	2016/11/09
2016/08839	TUBE WITH APPLICATION TIP	2016/12/21
2017/08686	NANOPARTICLES FOR USE AS A THERAPEUTIC VACCINE	2017/12/20
2018/04699	COMPOSITIONS AND THEIR USE	2018/07/13
2018/06047	VITAMIN COMPOSITION	2018/09/10
2018/06861	TARGETED NUCLEIC ACID CONJUGATE COMPOSITIONS	2018/10/15
2018/07286	ANGIOTENSINOGEN (AGT) IRNA COMPOSITIONS AND METHODS OF USE THEREOF	2018/10/31
2018/07871	METHODS FOR MAKING ULTRASOUND CONTRAST AGENTS	2018/11/21
2019/05790	ANTI-LAG-3 ANTIBODIES AND USES THEREOF	2019/09/02
2019/06608	ADENO-ASSOCIATED VIRUS VECTOR DELIVERY OF MICRO-DYSTROPHIN TO TREAT MUSCULAR DYSTROPHY	2019/10/08
2019/07248	MULTIPOINT ELECTROLYTE FLOW FIELD EMBODIMENT FOR VANADIUM REDOX FLOW BATTERY	2019/10/31
2019/07867	VOLTAGE-GATED CALCIUM CHANNEL AUXILLIARY SUBUNIT ALPHA 2 DELTA AND USES THEREOF	2019/11/27
2020/02762	BENZIMIDAZOLE DERIVATIVES AND THEIR USES	2020/05/14
2020/05255	METHOD AND SYSTEM FOR MOUNTING AND DISMOUNTING BATTERIES IN A VEHICLE	2020/08/24
2020/05507	10-(DI(PHENYL)METHYL)-4-HYDROXY-8,9,9A,10-TETRAHYDRO-7H-PYRROLO[1,2-B]PYRIDAZINE-3,5-DIONE DERIVATIVES AND RELATED COMPOUNDS AS INHIBITORS OF THE ORTHOMYXOVIRUS REPLICATION FOR TREATING INFLUENZA	2020/09/03
2020/05521	POLYUNSATURATED FATTY ACID MONOGLYCERIDES, COMPOSITIONS, METHODS AND USES THEREOF	2020/09/04
2020/06432	T CELL RECEPTORS	2020/10/16
2020/06585	METHOD AND ARRANGEMENT FOR MANAGING POWER CONSUMPTION IN A MINE	2020/10/22
2020/06838	IMPROVING CELL ACCESS PROCEDURE	2020/11/02
2020/06879	IDENTIFICATION OF RARE PRODUCTS OF CROSSING ORGANISMS	2020/11/04
2020/07125	COMPOSITE YARN, MANUFACTURING PROCESS	2020/11/16

Application Number	Patent Title	Filing Date
	AND TEXTILE SURFACE COMPRISING SUCH A YARN CLIENT OWES US MONEY - CHECK PASTEL	
2021/00034	AIR FILTRATION SYSTEM FOR COMBUSTION ENGINE AND COMBUSTION ENGINE INCLUDING SAME	2021/01/04
2021/00231	NON-VIABLE BIFIDOBACTERIUM BIFIDUM BACTERIA AND USES THEREOF	2021/01/13
2021/00235	GIP/GLP1 CO-AGONIST COMPOUNDS	2021/01/13
2021/00384	INFLUENZA VIRUS HEMAGGLUTININ MUTANTS	2021/01/19
2021/00968	FREIGHT VEHICLE WITH DRIVER'S CAB	2021/02/12
2021/01446	METHOD AND APPARATUS FOR SECURITY REALIZATION OF CONNECTIONS OVER HETEROGENEOUS ACCESS NETWORKS	2021/03/03
2021/02284	CABLE GLAND COMPRESSION LIMITER	2021/04/06
2021/04397	HYBRID AIR COOLING SYSTEM AND METHOD	2021/06/25
2021/04593	METHODS FOR TREATING OCULAR SURFACE PAIN	2021/07/01
2021/04824	COMPOSITION FOR PREVENTING OR REDUCING TRANSEPIDERMAL WATER LOSS AND IMPROVING SKIN BARRIER FUNCTION	2021/07/09
2021/05833	ARGINASE INHIBITORS AND METHODS OF USE THEREOF	2021/08/16
2021/05930	COMPOUNDS, COMPOSITIONS AND METHODS	2021/08/18
2021/06036	DETECTOR ARRANGEMENT, DETECTION SYSTEM AND METHOD OF POSITIONING A DETECTOR ARRANGEMENT TO REDUCE IMAGING ARTEFACTS	2021/08/20
2021/07033	MINIMIZING AERATION OF SUSPENSIONS DURING IN-LINE MIXING	2021/09/21
2021/07042	PROGRAMMABLE EPIGENETIC CONTROL OF GENE EXPRESSION IN PLANTS	2021/09/21
2021/07089	SLIDE-TYPE RANGE HOOD	2021/09/22
2021/07333	SYSTEM AND ASSOCIATED METHOD FOR ENSURING DATA PRIVACY	2021/09/29
2021/07415	FORMWORK PANEL MADE OF METAL FOR CONCRETE FORMWORK	2021/10/01
2021/07426	BISPECIFIC ANTIBODIES	2021/10/01
2021/07455	METHOD AND SYSTEM FOR CONTROLLING THE OPERATION OF A CSP RECEIVER	2021/10/04
2021/07579	PHARMACEUTICAL COMBINATIONS FOR THE TREATMENT OF CANCER	2021/10/08
2021/07710	ISOCHROMENE DERIVATIVES AS PHOSPHOINOSITIDE 3-KINASES INHIBITORS	2021/10/12
2021/07711	CYSTIC FIBROSIS TRANSMEMBRANE CONDUCTANCE REGULATOR MODULATING AGENTS	2021/10/12
2021/07831	PROCESS	2021/10/14
2021/07864	TRAUMATIC BRAIN INJURY PROTECTION DEVICES	2021/10/15
2021/08084	NOVEL LIGAND ASSAYS	2021/10/21
2021/08377	AUTOMATED POLYMER ANALYZING SYSTEM AND ITS USE	2021/10/28
2021/08436	IMPROVED METHOD FOR PURGING PAINT CIRCUITS AND WATERBORNE PURGE CLEANER	2021/10/29
2021/08439	ASSEMBLY AND METHOD FOR ATTACHING A	2021/10/29

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	HELIOSTAT TO A FOUNDATION	
2021/08537	POSITION-BIASED LOCKING PIN ASSEMBLY FOR A GROUND ENGAGING WEAR MEMBER	2021/11/02
2021/08849	ALUMINUM ALLOYS FOR FLUXLESS BRAZING APPLICATIONS, METHODS OF MAKING THE SAME, AND USES THEREOF	2021/11/09
2021/08949	SEED ORIENTATION SYSTEM FOR AGRICULTURAL PLANTERS	2021/11/11
2022/00410	TASIMELTEON USE IN TREATING SLEEP ABERRATIONS	2022/01/07
2022/00538	INDAZOLE DERIVATIVE, PREPARATION METHOD THEREFOR, AND PHARMACEUTICAL APPLICATION THEREOF	2022/01/11
2022/00651	BIOFILM DISRUPTION	2022/01/13
2022/03913	CHROMIUM-FREE WATER- AND ACID-STABLE CATALYST FOR HYDROGENATION REACTIONS	2022/04/06
2022/05443	INCRETIN ANALOGS AND USES THEREOF	2022/05/17
2022/06006	PROCESSES AND SYSTEMS FOR MAKING RECYCLE CONTENT HYDROCARBONS THROUGH A PROPYLENE FRACTIONATOR	2022/05/30
2022/06011	PROCESSES AND SYSTEMS FOR FORMATION OF RECYCLE-CONTENT HYDROCARBON COMPOSITIONS	2022/05/30
2022/06012	PYROLYSIS METHOD AND SYSTEM FOR RECYCLED WASTE	2022/05/30
2022/06258	RECYCLE CONTENT ETHYLENE OXIDE OR ALKYLENE GLYCOLS	2022/06/06
2022/06259	RECYCLE CONTENT OXO ALCOHOLS & OXO PLASTICIZERS	2022/06/06
2022/07336	METHOD FOR DETERMINING AUTHENTICITY AND ADULTERATION OF MARKED PETROLEUM HYDROCARBONS	2022/07/01
2022/07504	LOCKING ASSEMBLY FOR A SHROUD FOR A GROUND ENGAGING TOOL	2022/07/06
2022/07932	CONVEYOR IDLER MOUNTING	2022/07/18
2022/08285	SENSOR PART FOR INSTALLATION IN MEDIUM-VOLTAGE CABLE COMPARTMENTS AND A DEVICE FOR MEASURING A VOLTAGE IN MEDIUM-VOLTAGE CIRCUITS COMPRISING SUCH SENSOR PART	2022/07/25
2022/08329	ALKYL-BRIDGED TIN-BASED THERMAL STABILIZERS FOR HALOGENATED RESINS AND SYNTHESIS AND USES THEREOF	2022/07/26
2022/08813	ANTIBODIES TO PFGARP KILL PLASMODIUM FALCIPARUM MALARIA PARASITES AND PROTECT AGAINST INFECTION AND SEVERE DISEASE	2022/08/05
2022/08943	IMAGE CODING/DECODING METHOD AND DEVICE FOR SELECTIVELY SIGNALING FILTER AVAILABILITY INFORMATION, AND METHOD FOR TRANSMITTING BITSTREAM	2022/08/10
2022/09781	PERSONAL CARE COMPOSITIONS	2022/09/01
2022/09908	A BUCKET AND A GROUND MOVING APPARATUS INCLUDING THE BUCKET	2022/09/05

Application Number	Patent Title	Filing Date
2022/09927	CEREBRAL DURAL VENOUS SINUS STENT	2022/09/06
2022/10210	SMART ROCK BOLT DRIVER	2022/09/14
2022/10254	VIDEO PROCESSING USING SYNTAX ELEMENTS	2022/09/15
2022/10369	SLOPED SIDEWALL FOR A FURNACE	2022/09/19
2022/10434	HERBICIDAL COMPOUNDS	2022/09/20
2022/11122	SYNERGISTIC FUNGICIDAL INTERACTIONS OF A PICOLINAMIDE FUNGICIDE WITH OTHER FUNGICIDES AGAINST ASIAN SOYBEAN RUST	2022/10/11
2022/11157	AN AUTO-INJECTOR DEVICE FOR DELIVERING MEDICAMENTS	2022/10/12
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2022/12115	WAVE-ENERGIZED DIODE PUMP	2022/11/07
2022/12179	APTAMERS FOR USE IN THE TREATMENT OF CORONAVIRIDAE INFECTIONS	2022/11/08
2022/12298	LOW DIACETYL YEAST	2022/11/10
2022/12327	USE OF TELOMERASE INHIBITORS FOR THE TREATMENT OF MYELOPROLIFERATIVE DISORDERS AND MYELOPROLIFERATIVE NEOPLASMS	2022/11/11
2022/12328	OXYMETAZOLINE COMPOSITIONS AND METHODS FOR TREATING OCULAR DISORDERS	2022/11/11
2022/12351	SOLID COMPOSITION FOR PRODUCING ANTIBACTERIAL, ANTIVIRAL, ANTIFUNGAL AND DISINFECTANT SOLUTIONS	2022/11/11
2022/12397	HYDROGEN PRODUCTION AND CONVEYANCE SYSTEM	2022/11/14
2022/12436	Body heating equipment	2022/11/15
2022/12507	WIND TURBINE GENERATOR SYSTEM, AND CONTROL METHOD, CONTROLLER AND CONTROL SYSTEM THEREFOR	2022/11/16
2022/12568	PISTON GUIDING ELEMENT, ROCK DRILLING MACHINE AND METHOD	2022/11/17
2022/12752	SYSTEMIC FORMULATION OF A PYRIDINONE DERIVATE FOR TG2-RELATED DISEASES	2022/11/23
2022/12801	CATALYTIC OXIDATION OF CARBON BLACK EXHAUST GAS	2022/11/24
2022/12860	OBJECT DETECTION AND TRACKING FOR AUTOMATED OPERATION OF VEHICLES AND MACHINERY	2022/11/25
2022/12972	ADAPTER AND WEAR ELEMENT WITH A PIN ARRANGED AT A LOW STRESS POINT	2022/11/29
2022/13050	MICROORGANISM WITH KNOCK-IN AT ACETOLACTATE DECARBOXYLASE GENE LOCUS	2022/12/01

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2022/13170	CHAIN PIN ASSEMBLY	2022/12/05
2022/13270	CANCER THERAPY	2022/12/07
2022/13353	SUBSTITUTED COUMARIN DYES AND USES AS FLUORESCENT LABELS	2022/12/09
2022/13355	FIXTURES AND RELATED IMPRINTING SYSTEMS AND METHODS	2022/12/09
2022/13364	SEPARATING POLYNUCLEOTIDE FRAGMENTS	2022/12/09
2022/13367	COMPOSITIONS AND METHODS FOR AMPLIFYING POLYNUCLEOTIDES	2022/12/09
2022/13369	DETECTING NUCLEIC ACIDS USING SUGAR-LECTIN COUPLINGS	2022/12/09
2022/13370	FLOW CELLS	2022/12/09
2022/13435	CD4 BINDING APTAMERS AND APPLICATIONS THEREOF	2022/12/12
2022/13478	OSMOTIC DOSAGE FORMS COMPRISING DEUTETRABENAZINE AND METHODS OF USE THEREOF	2022/12/13
2022/13479	POSITIVE LATENCY EFFECTS ON COCCIDIOSIS PREVENTION AND TREATMENT VIA ANIMAL FEED	2022/12/13
2022/13483	IMMUNE PRIMING TO ACCELERATE/ENHANCE IMMUNE RESPONSE THROUGH ADMINISTRATION OF NATURAL IMMUNE MODULATOR	2022/12/13
2022/13527	METHODS OF PREPARING GROWING POLYNUCLEOTIDES USING NUCLEOTIDES WITH 3' AOM BLOCKING GROUP	2022/12/14
2022/13544	DRINKING STRAW WITH INTERNAL COATING	2022/12/14
2022/13684	SUBJECT SPECIMEN TOOL FOR VIRUS TESTING	2022/12/19
2022/13714	METHODS FOR THE TRANSMISSION OF DATA BETWEEN A RESOURCE-CONSTRAINED DEVICE AND A NON-GEOSTATIONARY SATELLITE AND ASSOCIATED METHOD	2022/12/19
2022/13761	IMPROVED MAGNETIC DRIVE	2022/12/20
2023/00208	AQUEOUS PICKLING COMPOSITIONS AND THEIR USE	2023/01/04
2023/00368	FUSION CONSTRUCTS AND METHODS OF USING THEREOF	2023/01/09
2023/01437	COMPOUNDS AND METHODS FOR TREATMENT OF VIRAL INFECTIONS	2023/02/03
2023/03565	READY-TO-USE EYELASH EXTENSIONS	2023/03/14
2023/03924	PROCESS FOR PREPARING (15 β -LPHA,16 β -LPHA,17 β -ETA)-ESTRA-1,3,5(10)-TRIENE-3,15,16,17-TETROL (ESTETROL) AND INTERMEDIATES OF SAID PROCESS	2023/03/29
2023/04049	TUBULAR REACTORS	2023/03/31
2023/04347	SCALABLE SYNTHESIS OF PERIMORPHIC MATERIALS	2023/04/12
2023/04541	CDK INHIBITORS AND THEIR USE AS PHARMACEUTICALS	2023/04/19
2023/04631	PORTABLE DRINK BLENDER	2023/04/21
2023/05053	CLIP	2023/05/08
2023/05313	SURGICAL MOUNT	2023/05/16
2023/05314	SURGICAL GUIDE PIN	2023/05/16

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2023/05365	A DUAL SUSPENSION SHOCK ABSORBER	2023/05/17
2023/05542	ARGINASE INHIBITORS AND METHODS OF USE THEREOF	2023/05/23
2023/05607	HIERARCHICAL COMPOSITE WEAR PART WITH STRUCTURAL REINFORCEMENT	2023/05/24
2023/05733	HEADER BOARD	2023/05/29
2023/05804	BATTERY FIRE PREVENTION AND DIAGNOSIS SYSTEM	2023/05/30
2023/06367	SHOOTING RANGE	2023/06/19
2023/07041	METHODS AND SYSTEMS FOR EFFICIENT UPLINK (UL) SYNCHRONIZATION MAINTENANCE WITH A DEACTIVATED SECONDARY CELL GROUP (SCG)	2023/07/12
2023/07071	SECURITY POLICY PROCESSING METHOD AND COMMUNICATION DEVICE	2023/07/13
2023/07107	A COMBINED LAUNCH VEHICLE AND SATELLITE SYSTEM	2023/07/14
2023/07402	AZOLE COMPOUNDS FOR CONTROLLING INVERTEBRATE PESTS	2023/07/25
2023/07488	METHODS FOR THE PREPARATION OF 5-BROMO-2-(3-CHLORO-PYRIDIN-2-YL)-2H-PYRAZOLE-3-CARBOXYLIC ACID	2023/07/27
2023/07489	METHOD FOR PREPARING TERT-BUTYL N-((1R,2S,5S)-2-((2-((5-CHLOROPYRIDIN-2-YL)AMINO)-2-OXOACETYL)AMINO)-5-(DIMETHYLCARBAMOYL)CYCLOHEXYL)CARBAMATE	2023/07/27
2023/07611	BEAM MANAGEMENT FOR A DEVICE IN AN INACTIVE MODE	2023/08/01
2023/08212	INDUCTIVE HEATING ARRANGEMENT FOR HEATING AEROSOL-FORMING SUBSTRATES	2023/08/25
2023/08329	PAPERMAKING METHOD	2023/08/29
2023/08374	A CLEANING HEAD FOR A MARINE CLEANING SYSTEM	2023/08/30
2023/08681	APPARATUS AND METHODS FOR FORMING ATTACHMENT PADS	2023/09/11
2023/08795	PRO DRUGS OF PDE10 COMPOUNDS	2023/09/15
2023/08840	FUEL CELL SYSTEM	2023/09/18
2023/08845	CX3CR1-BINDING POLYPEPTIDES	2023/09/19
2023/08846	CX3CR1-BINDING POLYPEPTIDES	2023/09/19
2023/08891	SCREW	2023/09/20
2023/09001	ABHD6 ANTAGONIST	2023/09/22
2023/09162	CHROMOSOME INTERACTION MARKERS	2023/09/28
2023/09170	DIELECTRICALLY HEATED AEROSOL-GENERATING SYSTEM WITH SEGMENTED HEATER	2023/09/29
2023/09171	DIELECTRICALLY HEATED AEROSOL-GENERATING SYSTEM WITH OPTIMISED DIMENSIONS	2023/09/29
2023/09173	INTEGRATED METHOD FOR PROCESSING PYROLYSIS OILS OF PLASTICS AND/OR SOLID RECOVERED FUELS LOADED WITH IMPURITIES	2023/09/29
2023/09174	PROCESS FOR THE SIMULTANEOUS PROCESSING OF PLASTICS PYROLYSIS OILS AND OF A FEEDSTOCK ORIGINATING FROM RENEWABLE RESOURCES	2023/09/29

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2023/09221	METHOD AND APPARATUS FOR MULTI-DESELECTION IN WASTEWATER TREATMENT	2023/10/02
2023/09222	MONITORING DEVICE FOR TRACKING A WEAR ELEMENT; SYSTEM AND METHODS	2023/10/02
2023/09224	RESERVOIR-REGULATING DIGITAL LOAD CONTROL	2023/10/02
2023/09225	IMMUNOGENIC FUSION PROTEIN	2023/10/02
2023/09226	AIR CONDITIONING DEVICE WITH INDIRECT COOLING BY EVAPORATION	2023/10/02
2023/09248	SYSTEM HAVING A DEVICE FOR PRODUCING A PIPELINE UNIT AND METHOD FOR PRODUCING A PIPELINE UNIT	2023/10/03
2023/09249	USE OF A RED ALGA EXTRACT AS NEMATOSTATIC AND/OR NEMATOCIDAL AGENT	2023/10/03
2023/09251	METHOD FOR PRODUCING ALDEHYDE AND METHOD FOR PRODUCING CATALYST	2023/10/03
2023/09278	COLLAGEN HYDROGELS USEFUL AS CELL CARRIERS	2023/10/04
2023/09287	CORONAVIRUS VACCINE COMPRISING A MOSAIC PROTEIN	2023/10/04
2023/09292	METHOD OF INCREASING SUGAR PRODUCTION FROM SUGARCANE	2023/10/04
2023/09293	LIQUID PREPARATION OF L-SERINE OR PHARMACEUTICALLY ACCEPTABLE SALT THEREOF AND METHOD FOR PREPARING SAME	2023/10/04
2023/09294	METHOD OF INHIBITING FLOWERING OF SUGARCANE	2023/10/04
2023/09295	BOVINE COLOSTRUM DERIVED ANTIBODIES AND USES THEREOF	2023/10/04
2023/09322	NEW YEAST STRAIN AND ITS USES FOR THE CONTROL OF PHYTOPATHOGENS	2023/10/05
2023/09323	ELECTRODE FOR GAS EVOLUTION IN ELECTROLYTIC PROCESSES	2023/10/05
2023/09328	A SYNERGISTIC PLANT GROWTH STIMULANT COMPOSITION COMPRISING POTASSIUM MONO/DIFORMATE AND METAL ION COMPOUNDS TO ENHANCED METABOLIC ACTIVITIES IN PLANTS	2023/10/05
2023/09341	ELECTRONIC DEVICE INCLUDING ANTENNA AND HEAT DISSIPATION STRUCTURE	2023/10/06
2023/09368	LENTIVIRAL VECTOR, LENTIVIRAL PARTICLE FOR TREATING HEPATITIS B AND ITS PREPARATION METHOD AND APPLICATION THEREOF	2023/10/06
2023/09373	HYDRATABLE CONCENTRATED SURFACTANT COMPOSITION SUBSTANTIALLY FREE OF ISETHIONATES	2023/10/06
2023/09375	PACKAGE CONTAINING WATER-SOLUBLE CAPSULES	2023/10/06
2023/09376	PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE	2023/10/06
2023/09398	BACKWARD-COMPATIBLE INTEGRATION OF HARMONIC TRANSPOSER FOR HIGH FREQUENCY RECONSTRUCTION OF AUDIO SIGNALS	2023/10/09
2023/09455	ELECTRONIC APPARATUS FOR STABLE	2023/10/10

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	ELECTRICAL CONNECTION	
2023/09456	COMPOSITION COMPRISING AN IGE ANTIBODY	2023/10/10
2023/09482	A PIPE WEAR MONITORING SYSTEM AND METHOD OF USE THEREOF	2023/10/11
2023/09503	INHIBITORS OF GLYCOGEN SYNTHASE 1 (GYS1) AND METHODS OF USE THEREOF	2023/10/11
2023/09505	SELF-PROPELLED WORK VEHICLE	2023/10/11
2023/09516	ANTI-CCR8 ANTIBODIES	2023/10/11
2023/09558	TORREFACTION UNIT AND METHOD	2023/10/12
2023/09560	METHOD FOR PRODUCING PHOSPHORYL OR THIOPHOSPHORYL TRIAMIDE, AND USE OF COMPOUND IN NITROGEN FERTILIZER FORMULATIONS	2023/10/12
2023/09561	CUSTOMIZED JEWELRY DESIGN BY TRANSPOSITION OF DATES INTO TIMES	2023/10/12
2023/09593	GAS-LIQUID-SOLID AND LIQUID-SOLID REACTOR CASCADE FOR CARRYING OUT CONTINUOUS-FLOW CHEMICAL REACTIONS UNDER HIGH PRESSURE AND/OR HIGH TEMPERATURE	2023/10/13
2023/09594	DEVICE FOR PROVIDING IOT SERVICE AND METHOD THEREFOR	2023/10/13
2023/09645	WALL FRAMING BRACKET AND ASSEMBLY	2023/10/16
2023/09646	PLANT FOR TREATING HORTICULTURAL PRODUCTS	2023/10/16
2023/09652	HUMAN WASTE PROCESSING APPARATUS AND METHOD	2023/10/16
2023/09653	5XXX ALUMINIUM SHEETS FOR CAN MAKING	2023/10/16
2023/09694	PLANTS OF THE SPECIES BETA VULGARIS WITH RESISTANCE TO CERCOSPORA	2023/10/17
2023/09695	SUB-MIB TRANSMISSION SCHEMES	2023/10/17
2023/09721	THERAPEUTIC DRUG FOR MYOTONIC DYSTROPHY TYPE 1	2023/10/18
2023/09726	PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE	2023/10/18
2023/09727	PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE	2023/10/18
2023/09729	PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE	2023/10/18
2023/09730	TOOTH FORMATION AND TOOTH PICK FORMATION	2023/10/18
2023/09731	PPO POLYPEPTIDES TOLERANT TO PPO-INHIBITING HERBICIDES AND USE THEREOF	2023/10/18
2023/09735	COMPOSITION	2023/10/18
2023/09736	COMPOSITION	2023/10/18
2023/09737	IMPROVED CATALYTIC REACTOR SYSTEM AND CATALYST FOR CONVERSION OF CAPTURED CO ₂ AND RENEWABLE H ₂ INTO LOW-CARBON SYNGAS	2023/10/18
2023/09738	PACKAGE CONTAINING WATER-SOLUBLE CAPSULES	2023/10/18
2023/09771	RHABDOVIRUS-NEGATIVE SPODOPTERA FRUGIPERDA INSECT CELL LINE, AND SCREENING, IDENTIFICATION AND APPLICATION THEREOF	2023/10/19
2023/09775	ANTI-GALECTIN-9 ANTIBODIES AND THERAPEUTIC	2023/10/19

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	USES THEREOF	
2023/09777	THORIUM PEROXIDE-BASED GENERATOR FOR AC-225 GENERATION	2023/10/19
2023/09778	NUCLEIC ACID ENRICHMENT AND DETECTION	2023/10/19
2023/09779	TUNDISH WITH FILTER MODULE	2023/10/19
2023/09813	SACRIFICIAL COMPOSITE PART THAT ABSORBS ENERGY DURING A VEHICLE COLLISION	2023/10/20
2023/09814	PRODUCTION PROCESS FOR PRODUCING BIOGAS BY MEANS OF ANAEROBIC CO-DIGESTION	2023/10/20
2023/09815	ANTIBODIES	2023/10/20
2023/09816	MAGNETIC INTERACTION SYSTEM BETWEEN ROTORS FOR PRODUCTION AND STORAGE OF KINETIC ENERGY	2023/10/20
2023/09817	METHODS AND KITS FOR DIAGNOSING COVID-19 DISEASE	2023/10/20
2023/09867	OPTIMIZED INDUSTRIAL BIOREACTOR AND METHOD THEREOF, WITH MUTUALLY DEPENDENT, COUPLED PROCESS CONTROL LOOPS	2023/10/23
2023/09869	A COMPOSITION FOR REDUCING MALODOUR	2023/10/23
2023/09870	PACKAGE CONTAINING WATER-SOLUBLE CAPSULES	2023/10/23
2023/09871	MULTILAYER FILM	2023/10/23
2023/09872	A TABLET COMPOSITION	2023/10/23
2023/09873	DETACHABLE, SELF-BALANCING, MULTI-PAYLOAD DELIVERY POD FOR UAV	2023/10/23
2023/09918	HINGE ASSEMBLY AND FOLDABLE ELECTRONIC DEVICE COMPRISING SAME	2023/10/24
2023/09919	RECEPTACLE CONNECTOR	2023/10/24
2023/09923	PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE	2023/10/24
2023/09955	EXPLOITATION OF TRANSMITTER (TX) POWER FOR EACH BAND DUAL UP-LINK (UL) CARRIER AGGREGATION (CA)	2023/10/25
2023/09968	TETRAHYDROTHIENO PYRIDINE DERIVATIVES AS DDRS INHIBITORS	2023/10/25
2023/09969	LAQUINIMOD FORMULATION FOR OCULAR USE	2023/10/25
2023/09970	PROCESS FOR THE CO-PRODUCTION OF ALKYL MERCAPTAN AND DIALKYL DISULFIDE FROM ALCOHOL	2023/10/25
2023/09971	METHOD FOR THE CO-PRODUCTION OF METHYL MERCAPTAN AND DIMETHYL DISULFIDE FROM CARBON OXIDES	2023/10/25
2023/10014	PROTEIN-MACROMOLECULE CONJUGATES AND METHODS OF USE THEREOF	2023/10/26
2023/10015	ELECTRONIC DEVICE INCLUDING HEAT DISSIPATION STRUCTURE	2023/10/26
2023/10018		2023/10/26
2023/10019	CUTTING INSERT AND CUTTING TOOL ASSEMBLY INCLUDING SAME	2023/10/26
2023/10021	ELECTRODE FOR GAS EVOLUTION IN ELECTROLYTIC PROCESSES	2023/10/26
2023/10022	HYPERIMMUNIZED EGG PRODUCT FOR TREATING	2023/10/26

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	OR PREVENTING ALCOHOLIC LIVER DISEASE AND GRAFT-VERSUS-HOST DISEASE	
2023/10040	TRANSACTION CARDS WITH DISCONTINUOUS METAL STRATA	2023/10/27
2023/10069	A METHOD FOR CONSTRUCTING A MOUSE MODEL WITH SHORT TELOMERE	2023/10/27
2023/10072	METHOD AND DEVICE FOR DETERMINING OVERBURDEN FAILURE HEIGHT, AND ELECTRONIC EQUIPMENT AND STORAGE MEDIUM	2023/10/27
2023/10073	SYSTEM FOR DRAWING OFF THE ELECTRODE CAPS FROM ELECTRODE ADAPTERS	2023/10/27
2023/10075	METHOD FOR MORPHOLOGICAL PROCESSING OF MICROWAVE RADAR IMAGES IN THE MEDICAL FIELD USING DIFFERENT HYPOTHESES ON THE MEDIUM THROUGH WHICH THE MICROWAVE SIGNALS PASS	2023/10/27
2023/10076	COMBINATION THERAPIES FOR TREATING CANCER	2023/10/27
2023/10097	ELECTRONIC DEVICE INCLUDING ANTENNA DEVICE	2023/10/30
2023/10099	REMOTE MONITORING MODULE	2023/10/30
2023/10115	METHOD FOR CONTROLLING THE TEMPERATURE AND HUMIDITY OF THE AIR CONTAINED IN A REFRIGERATED CHAMBER AND REFRIGERATED CHAMBER SUITABLE FOR SUCH A METHOD	2023/10/30
2023/10117	ELECTRONIC DEVICE COMPRISING HINGE COVER	2023/10/30
2023/10119	METHOD FOR PREPARING A LIBRARY OF PEPTIDES OR A PEPTIDE	2023/10/30
2023/10120	DEVICE AND METHOD FOR UNLOCKING AN ELECTROMECHANICAL LOCK	2023/10/30
2023/10123	PARAMETER IDENTIFICATION METHOD AND PARAMETER IDENTIFICATION DEVICE FOR WIND TURBINE	2023/10/30
2023/10180	IMPROVED PITCH PRODUCT, PROCESS FOR ITS PREPARATION AND USE	2023/10/31
2023/10206	DEFORMABLE CONTAINER, KIT AND PACKAGING	2023/11/01
2023/10247	ANTI IL-1 RECEPTOR ACCESSORY PROTEIN ANTIBODIES	2023/11/02
2023/10292	ANTI-CLDN4/ANTI-CD137 BISPECIFIC ANTIBODY	2023/11/03
2023/10296	PACKAGING MATERIAL HAVING ANTI-MICROBIAL PROPERTIES	2023/11/03
2023/10327	PRINTABLE, MULTI-LAYERED PAPER FOR PACKAGING AND PROCESS FOR PRODUCTION THEREOF	2023/11/06
2023/10328	ASSEMBLY FOR PREPARING AN INJECTABLE COMPOSITION	2023/11/06
2023/10356	HEAT DISTRIBUTION IN AEROSOL-GENERATING DEVICE	2023/11/07
2023/10413	SPINDLE STRUT	2023/11/08
2023/10414	FRAMEWORK SUPPORT	2023/11/08
2023/10416	COMPOSITION	2023/11/08
2023/10417	HIGH MOISTURE SILICA GEL SOAP BARS AND PROCESS FOR PREPARING THE SAME	2023/11/08
2023/10419	A UNIT DOSE TABLET COMPOSITION	2023/11/08

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2023/10433	FOOD PROCESSOR AND FOOD PROCESSING UNIT	2023/11/09
2023/10452	ELECTROLYSIS UNIT FOR A FILTER-PRESS-TYPE ELECTROLYSER	2023/11/09
2023/10453	HETEROCYCLIC COMPOUND AND RESISTANT HARMFUL ARTHROPOD-CONTROLLING METHOD FOR COMPOSITION CONTAINING SAME	2023/11/09
2023/10456	ENGINEERED ANTI-IL-2 ANTIBODIES	2023/11/09
2023/10480	WATER QUALITY IMAGE ANALYSIS METHOD AND SYSTEM BASED ON DEEP LEARNING, AND DEVICE AND MEDIUM	2023/11/10
2023/10484	REPORTING FREQUENCY AND DOPPLER PARAMETERS FOR COHERENT JOINT TRANSMISSION (CJT) AND MOBILITY	2023/11/10
2023/10533	UNIT DOSE CLEANING COMPOSITION	2023/11/13
2023/10535	UNIT DOSE CLEANING COMPOSITION	2023/11/13
2023/10536	BLUE METHANOL	2023/11/13
2023/10560	VALVE POSITION INDICATOR WITH LEDS	2023/11/14
2023/10575	DENSITY METER	2023/11/14
2023/10577	GPP SEAL SYSTEM MAINTENANCE, REPLACEMENT AND SEISMIC ISOLATION	2023/11/14
2023/10604	COSMETIC COMPOSITION WITH ENHANCED COLOR STABILITY	2023/11/15
2023/10606	HYDRATABLE CONCENTRATED SURFACTANT COMPOSITION COMPRISING A COMPOUND WITH A DEFINED WEIGHT PERCENT OF OXYGEN	2023/11/15
2023/10704	HEATING ELEMENT AND HEATER ASSEMBLIES, CARTRIDGES, AND E-VAPOR DEVICES INCLUDING A HEATING ELEMENT	2023/11/20
2023/10750	PROCESSES FOR THE VAPOR PHASE HYDROGENATION OF ALDEHYDES	2023/11/21
2023/10767	HYDRAULIC DOWN-THE-HOLE HAMMER AND SUBSEA PILE	2023/11/21
2023/10803	RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING	2023/11/22
2023/10805	METHODS FOR RECYCLING ETHYLENE IN AN ETHYLENE OLIGOMERIZATION REACTOR SYSTEM	2023/11/22
2023/10824	OVERLAPPING CUTTING EDGE TIP SYSTEM	2023/11/23
2023/10833	PARP INHIBITOR-RESISTANT CANCER THERAPEUTIC AGENT	2023/11/23
2023/10834	UNIVERSAL LAMP ASSAYS FOR DETECTION OF NUCLEIC ACID TARGETS	2023/11/23
2023/10849	STRUCTURE PROTECTION SHEET, EXECUTION METHOD AND PRECAST MEMBER USING STRUCTURE PROTECTION SHEET, AND METHOD FOR MANUFACTURING PRECAST MEMBER	2023/11/24
2023/10876	METHOD FOR THE MAINTENANCE OF A SLIDING CLOSURE ON A MOLTEN METAL-CONTAINING VESSEL, AND SLIDING CLOSURE	2023/11/24
2023/10877	CATHODE CURRENT COLLECTOR BAR OF AN ALUMINIUM PRODUCTION CELL	2023/11/24
2023/10933	ELECTRONIC DEVICE PERFORMING OPERATION IN RESPONSE TO OVER-HEATED STATE, AND	2023/11/27

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	METHOD FOR OPERATING SAME	
2023/10936	RESTRICTED TWT WITH ENHANCED MULTI-LINK SINGLE RADIO (EMLSR) OPERATION	2023/11/27
2023/10967	GROUND ENGAGING TOOL WEAR AND LOSS DETECTION SYSTEM AND METHOD	2023/11/28
2023/11036	METHOD FOR PREPARING A COAL-BASED LINEAR ALKYL BENZENE	2023/11/29
2023/11037	METHOD OF FUNCTIONALISING AN ELASTOMERIC MATERIAL AND THE USE THEREOF IN RUBBER FORMULATIONS	2023/11/29
2023/11082	A TABLET COMPOSITION	2023/11/30
2023/11083	SKIN CARE COMPOSITION	2023/11/30
2023/11085	A UNIT DOSE TABLET COMPOSITION	2023/11/30
2023/11087	AQUEOUS ANTIPERSPIRANT COMPOSITIONS	2023/11/30
2023/11088	METHOD OF MANUFACTURE OF ANTIPERSPIRANT SALTS	2023/11/30
2023/11094	CRYSTALLINE SOLIDS OF NICOTINIC ACID MONONUCLEOTIDE AND ESTERS THEREOF AND METHODS OF MAKING AND USE	2023/11/30
2023/11241	PHARMACEUTICAL COMPOSITION COMPRISING 1-(3-CYANO-1-ISOPROPYL-INDOL-5-YL)PYRAZOLE-4-CARBOXYLIC ACID	2023/12/06
2023/11434	POLYESTER IMPACT MODIFIERS	2023/12/12
2023/11462	A WELDING METHOD	2023/12/13
2023/11670	METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE, FOR PERFORMING DEBLOCKING FILTERING BY DETERMINING BOUNDARY STRENGTH, AND METHOD FOR TRANSMITTING BITSTREAM	2023/12/20
2023/11685	GERANYLGERANYL PYROPHOSPHATE SYNTHASE VARIANT AND METHOD OF PRODUCING TETRATERPENE, PRECURSOR THEREOF, AND MATERIAL HAVING TETRATERPENE AS PRECURSOR USING THE SAME	2023/12/20
2023/11687	ENVIRONMENTALLY FRIENDLY COMPOSITION FOR TREATING MINERAL SUBSTRATES	2023/12/20
2024/00014	APPARATUS AND METHOD FOR PERFORMING MAGNETIC SEPARATION	2024/01/02
2024/00089	VETERINARY VACCINE COMPOSITION AGAINST PARASITIC WORMS, METHOD FOR TREATING AND PREVENTING INFECTION BY PARASITIC WORMS, AND USE	2024/01/02
2024/00144	MICROORGANISM PRODUCING PURINE NUCLEOTIDE, AND PURINE NUCLEOTIDE PRODUCTION METHOD USING SAME	2024/01/03
2024/00147	OBJECT DATA STORED OUT OF LINE VECTOR ENGINE	2024/01/03
2024/00148	METHOD AND APPARATUS FOR STORING OBJECT TOKENS IN A DATABASE	2024/01/03
2024/00222	HERBICIDAL COMPOSITION FOR CROP MANAGEMENT AND METHOD THEREOF	2024/01/05
2024/00353	OUTDOOR ENERGY-STORAGE DEVICE	2024/01/10

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2024/00355	RECOMBINANT MICROORGANISM IN WHICH EXPRESSION OF NADH:QUINONE OXIDOREDUCTASE IS CONTROLLED, AND METHOD FOR PRODUCING O-PHOSPHOSERINE, CYSTEINE, AND DERIVATIVE THEREOF BY USING SAME	2024/01/10
2024/00389	IMMERSION NOZZLE	2024/01/11
2024/00405	METHODS OF TREATING NEUROLOGICAL DISEASES	2024/01/11
2024/00549	CONTACTLESS PAYMENT METHODS AND SYSTEMS	2024/01/16
2024/00577	A DEVICE WITH CUSTOMIZED INTEGRATED ELECTRONIC CIRCUIT FOR DESTROYING PATHOGENS	2024/01/17
2024/00608	A RESIN ANCHORED ROCK BOLT WITH A PIERCING END	2024/01/17
2024/00683	COMPRESSOR ASSEMBLY COMPRISING A MOTOR DRIVING ONE OR MORE COMPRESSOR ROTORS AND METHOD FOR FABRICATING A HOUSING PART OF SUCH A COMPRESSOR ASSEMBLY.	2024/01/19
2024/01199	HOT ROLLED AND STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF	2024/02/07
2024/01325	FORMULATIONS WITH ENHANCED SN-38 SOLUBILITY AND ORAL ABSORPTION	2024/02/13
2024/01357	ASSEMBLY AND METHOD FOR THE MANAGEMENT OF AN AGRICULTURAL AREA	2024/02/14
2024/01358	HIGH STRENGTH HIGH SLENDERNESS PART HAVING EXCELLENT ENERGY ABSORPTION	2024/02/14
2024/01471	A DEVICE FOR TRANSPORTING A CEMENT MIXTURE BETWEEN A PUMP OF THE CEMENT MIXTURE AND THE PLACE OF THE CEMENT MIXTURE CONSUMPTION	2024/02/19
2024/01522	ELECTROCHEMICAL CELL	2024/02/21
2024/01575	BIDIRECTIONAL ENERGY STORAGE CONVERTER	2024/02/22
2024/01715	RADIOPHARMACEUTICALS BASED ON ((R)-1-((6-HYDRAZINYLNICOTINOYL)-DALANYL) PYRROLIDIN-2-YL)BORONIC ACID (HYNIC-IFAP) FOR DETECTING THE OVEREXPRESSION OF FIBROBLAST ACTIVATION PROTEIN	2024/02/28
2024/01756	HIGH STRENGTH PRESS HARDENED STEEL PART AND METHOD OF MANUFACTURING THE SAME	2024/02/29
2024/01854	NON-RETURN VALVE	2024/03/05
2024/01933	ENERGY STORAGE CONVERTER, CONTROL METHOD AND DEVICE THEREFOR, AND READABLE STORAGE MEDIUM	2024/03/07
2024/01934	BIDIRECTIONAL ENERGY STORAGE CONVERTER AND ENERGY STORAGE SYSTEM	2024/03/07
2024/02461	CONNECTING MECHANISM, ELECTRICAL ENERGY TRANSMISSION DEVICE AND MOTOR VEHICLE	2024/03/27
2024/02609	METHOD FOR IMPROVING POLLUTANT REMOVAL RATE AND/OR CONTROLLING MEMBRANE FOULING IN AQUACULTURE WASTEWATER	2024/04/04
2024/02856	REGULATION VIOLATION BEHAVIOR IDENTIFICATION METHOD AND INTELLIGENT ANTI-	2024/04/12

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	REGULATION VIOLATION SENSOR SYSTEM	
2024/02857	ANTIBODIES BINDING CLDN18.2 AND USES THEREOF	2024/04/12
2024/02858	ANTENNA STRUCTURE AND MANUFACTURING METHOD THEREFOR	2024/04/12
2024/02869	COUPLING SYSTEM OF BIOMASS GASIFICATION AND WASTE INCINERATION	2024/04/12
2024/03208	FRICTION BRAKE, ESPECIALLY FOR MOTOR VEHICLES	2024/04/25
2024/03908	INTELLIGENT ELECTRIC WHEELCHAIR AND AUTOMATIC CONTROL METHOD THEREFOR	2024/05/20
2024/03992	MULTI-LAYER COATING SYSTEM FOR POLYCARBONATE SUBSTRATES	2024/05/22
2024/04230	SYSTEM AND METHOD FOR VARIABLE-DISTANCE VARIABLE-TRACE HIGH-UNIFORMITY QUENCHING	2024/05/30
2024/04288	SYSTEM AND METHOD FOR WARMKEEPING SUB-CRITICAL STEAM GENERATOR	2024/05/31
2024/04338	INFORMATION TRANSMISSION METHOD, DEVICE, AND STORAGE MEDIUM	2024/06/03
2024/04365	SEALED ELECTROLYSIS CELL	2024/06/04
2024/04450	OVERHEAD LINE CLAMP	2024/06/07
2024/04489	INTER-ARCH COMPONENT (IAC), USE OF SUCH AN IAC, AND METHOD FOR PRODUCING AN INTRAORAL PROTECTOR (IOP) WITH SUCH AN IAC	2024/06/10
2024/04589	TENT FLAP WEIGHT	2024/06/13
2024/04611	CONVERTER FOR POWER SUPPLY OF MEDICAL DEVICES	2024/06/13
2024/04617	METHOD FOR PRODUCING INSULATION PRODUCTS BASED ON MINERAL FIBRES OR ORGANIC FIBRES OF NATURAL ORIGIN	2024/06/13
2024/04656	DEPLOYMENT TOOL AND METHOD	2024/06/14
2024/04674	DEPTH MEASUREMENT WITHIN A BOREHOLE	2024/06/14
2024/04713	YIELDING MINE SUPPORT BAG	2024/06/18
2024/04719	METHOD AND MEANS FOR PROCESSING BEVERAGES	2024/06/18
2024/04816	LOCAL CONNECTED NETWORKS FOR OUTDOOR ACTIVITIES	2024/06/20
2024/04821	AUTOMATIC FERMENTATION METHOD AND SYSTEM FOR GANODERMA LUCIDUM	2024/06/20
2024/04822	AUTOMATED PRODUCTION METHOD AND SYSTEM OF SPLEEN-TONIFYING EIGHT-DELICACY CAKE	2024/06/20
2024/04823	PREPARATION METHOD AND SYSTEM FOR EVODIA RUTAECARPA FORMULA GRANULAR PREPARATION	2024/06/20
2024/04825	CRACK-CONTAINING HOT-STAMPED COATED STEEL PART WITH EXCELLENT SPOT-WELDABILITY AND EXCELLENT PAINTING ADHESION	2024/06/20
2024/04911	UNDERGROUND MINING METHODS VIA BOREHOLES AND MULTILATERAL BLAST-HOLES	2024/06/21
2024/04914	A DEVICE FOR DELIVERING AN ORBITAL FLUID JET	2024/06/21
2024/04918	A VAPING DEVICE FOR DISPLAYING PROMOTIONAL CONTENT	2024/06/24
2024/04938	RECYCLING SYSTEMS AND METHODS	2024/06/24

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2024/04948	HIGH-STRENGTH COLD-ROLLED STEEL PLATE FOR DOUBLE-SIDED ENAMEL LINER AND METHOD FOR MANUFACTURING SAME	2024/06/24
2024/04952	HYBRID ROTATIONAL SPEED DETECTOR	2024/06/24
2024/04969	METHOD FOR CONTROLLING THE ROTATION SPEED OF A MOTOR	2024/06/25
2024/04977	MODIFIED 5' UTR	2024/06/25
2024/05027	AUTONOMOUS VEHICLE CONTROL METHOD AND APPARATUS, AND OPERATION SYSTEM	2024/06/26
2024/05052	METHOD FOR IMPROVING PRODUCTION EFFICIENCY OF DOUBLING MACHINE	2024/06/27
2024/05053	INFORMATION PROCESSING DEVICE, INFERENCE DEVICE, MACHINE LEARNING DEVICE, INFORMATION PROCESSING METHOD, INFERENCE METHOD, AND MACHINE LEARNING METHOD	2024/06/27
2024/05060	HIGH-EFFICIENCY MACHINE	2024/06/27
2024/05064	RAPID SWAPPING SUPPORT ASSEMBLY WITH HIGH LOCKING STABILITY, AND ELECTRIC VEHICLE COMPRISING SAME	2024/06/27
2024/05070	ENERGY STORAGE SYSTEM	2024/06/27
2024/05071	INTERLOCK DEVICE, ENERGY STORAGE SYSTEM, CONTROL METHOD, AND DEVICE THEREOF	2024/06/27
2024/05072	ELECTRIC VEHICLE BATTERY SWAPPING ASSEMBLY AND BATTERY SWAPPING STATION	2024/06/27
2024/05116	METHOD FOR DETECTING SEGREGATION DEGREE OF ASPHALT MIXTURE	2024/06/28
2024/05160	A SYSTEM AND METHOD FOR ESTIMATING A MASS OF A VEHICLE	2024/07/02
2024/05162	SAMPLE COLLECTION APPARATUS AND SAMPLE COLLECTION METHOD	2024/07/02
2024/05202	EXHAUST GAS-PURIFYING CATALYST-MANUFACTURING APPARATUS	2024/07/03
2024/05203	CATIONIC LIPID COMPOUND, COMPOSITION CONTAINING SAME AND USE THEREOF	2024/07/03
2024/05235	HIGH TEMPERATURE-STABLE AGROCHEMICAL COMPOSITION	2024/07/04
2024/05241	METHOD FOR SYNTHESIS AND ASSEMBLY AND FUNCTIONAL TEST OF ARTIFICIAL CHLAMYDOMONAS REINHARDTII CHLOROPLAST GENOME	2024/07/04
2024/05293	A METHOD AND SYSTEM FOR DYNAMICALLY ASSESSING SAFETY TOUGHNESS OF FLOODING IN MOUNTAINOUS SUBWAY STATION BASED ON BM-OWA OPERATOR AND CONFLICTUAL ANALYSIS	2024/07/08
2024/05308	FAP-ALPHA SPECIFIC TUMOR DIAGNOSTIC IMAGING AGENT	2024/07/08
2024/05337	FILM FORMING COSMETIC INGREDIENTS COMPRISING BOSWELLIA THICK OIL AND OAT KERNEL OIL	2024/07/09
2024/05339	CONVERGENCE MONITOR	2024/07/09
2024/05344	USE OF A CLASS OF 1,4-DIHYDRO-NAPHTHYRIDINE DERIVATIVES IN TREATMENT OF TUMORS	2024/07/09

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2024/05355	ACCURATE IDENTIFICATION METHOD FOR NATURAL FREQUENCY AND TENSION OF CABLE UNDER COMPLEX BOUNDARY CONDITIONS	2024/07/10
2024/05405	CONVEYANCE APPARATUS	2024/07/11
2024/05436	SAFETY SYSTEM FOR WORKING MACHINE	2024/07/12
2024/05462	CONTROL METHOD AND CONTROL APPARATUS FOR VOLTAGE-SOURCE-TYPE WIND TURBINE GENERATOR SYSTEM	2024/07/12
2024/05499	LIGHTNING PROTECTION DEVICE FOR WIND TURBINE BLADES AND MOUNTING METHOD THEREFOR	2024/07/15
2024/05534	COSMETIC INGREDIENT	2024/07/16
2024/05544	AN EDDY CURRENT FLAW DETECTION DEVICE BASED ON MOBILE MANIPULATOR	2024/07/17
2024/05552	FOOTWEAR STRAP AND FOOTWEAR HAVING THE SAME	2024/07/17
2024/05563	METHOD AND DEVICE FOR FAST QUANTITATIVE DETERMINATION OF SEED TREATMENT LOADING	2024/07/17
2024/05567	SAFE AND ENVIRONMENTALLY-FRIENDLY CONSTRUCTION METHOD FOR HYDROGEN SULFIDE-CONTAINING SOIL	2024/07/17
2024/05604	METHOD FOR TREATING WASTE WATERS AND RESIDUE SLUDGE BY MEANS OF DECARBONATION IN A CHEMICAL INSTALLATION FOR NITRIDATION IN A MOLTEN SALT BATH	2024/07/18
2024/05607	PHARMACEUTICAL COMPOSITION COMPRISING ENAVOGLIFLOZIN FOR PREVENTING OR TREATING OBESITY IN CANINE ANIMALS	2024/07/18
2024/05613	A PROCESS OF USING A ZNSO ₄ SOLUTION TO REMOVE IMPURITIES FROM THE LIQUID PHASE AND SIMULTANEOUSLY PREPARE LIQUID-STATE ELECTROLYTIC ADDITIVES	2024/07/19
2024/05614	A NANOFUID-BASED WASTE HEAT RECOVERY SYSTEM FOR FLUE GAS FROM CATHODE MATERIAL PRODUCTION	2024/07/19
2024/05622	RETRANSMISSION METHOD, COMMUNICATION DEVICE AND STORAGE MEDIUM	2024/07/19
2024/05628	METHOD FOR MANUFACTURING A BATTERY OF TUBULAR SOLID OXIDE FUEL CELLS AND A BATTERY MANUFACTURED BY THE CLAIMED METHOD	2024/07/19
2024/05638	METHOD - INCLUDING ENERGY STORAGE METHOD - FOR SUPPLYING ENERGY IN THE VICINITY OF THE POINT OF CONSUMPTION USING REGENERATIVE ENERGY SOURCES, AND USE THEREOF	2024/07/19
2024/05640	HEAT-FREE MATERIAL DRYING SYSTEM, FILTER PRESS CONTROL METHOD AND FILTER PRESS	2024/07/19
2024/05648	A HEMODIALYSIS ARTERIOVENOUS ARTIFICIAL ENDOVASCULAR FISTULA VASCULAR COMPRESSION HEMOSTAT	2024/07/22
2024/05650	PERSONALISED CARD AND SYSTEM FOR DESIGNING SAME	2024/07/22

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2024/05655	PROCESS FOR SMELTING CHROMITE AND SYSTEM THEREOF	2024/07/22
2024/05674	LOW-CARBON IRONMAKING METHOD BY DIRECTLY REDUCING IN A SUSPENDED STATE AND SMELTING-SEPARATING IN A SIDE-BLOWN FURNACE	2024/07/22
2024/05675	EXPANSION JOINT FILLING MATERIAL AND PREPARATION METHOD THEREOF	2024/07/22
2024/05676	CONSTRUCTION METHOD OF CAST-IN-PLACE PILE	2024/07/22
2024/05698	A TRIPLE DECK VIBRATORY SCREEN AND A METHOD OF USING A TRIPLE DECK VIBRATORY SCREEN	2024/07/23
2024/05711	SAFE CONSTRUCTION METHOD FOR PREFABRICATED EXTERNAL FLUE OF SUPER HIGH-RISE BUILDING	2024/07/24
2024/05712	COMPREHENSIVE CONSTRUCTION METHOD OF ROOF FLOWER TRELLIS BASED ON FRAME CLIMBING CONDITION	2024/07/24
2024/05775	A GEOTHERMAL RESOURCE DEVELOPMENT SIMULATION SYSTEM BASED ON 3D PRINTING MODEL	2024/07/26
2024/05776	SAFETY SYSTEM FOR OPERATING MACHINES	2024/07/26
2024/05848	A FILM COMPOSITION	2024/07/29
2024/05860	FOLLOW-UP ROLLING DEVICE FOR MACHINING SLENDER SHAFT PARTS	2024/07/30
2024/05926	UNIFIED RETRIEVAL METHOD FOR VEHICLE PROFESSIONAL EQUIPMENT FAULTS BASED ON KNOWLEDGE GRAPH	2024/07/31
2024/05940	STRUCTURAL COMPONENT	2024/08/01
2024/05941	A PREPARATION METHOD OF RED FLUORESCENT POWDER FOR WHITE LED	2024/08/01
2024/05944	A METHOD FOR EXTRACTING IMAGE ELEMENTS BASED ON PHASE-CHANGE NEURAL NETWORKS	2024/08/01
2024/05984	CARDIOPULMONARY RESUSCITATION DEVICE FOR PERFORMING COMPRESSIONS ON THE CHEST	2024/08/02
2024/06010	FALL-PREVENTION SEISMIC LIMITING DEVICE FOR BRIDGES	2024/08/05
2024/06063	A DEVICE FOR DETECTING PERPENDICULARITY OF ENGINEERING	2024/08/07
2024/06070	A NITROGEN FIXATION GELATINOUS PPAENIBACILLUS MSSW01 AND ITS APPLICATION	2024/08/07
2024/06078	A METHOD FOR CONTROLLING AN ACID LEACHING PROCESS OF CALCIFIED ROASTING CLINKERS	2024/08/07
2024/06085	PLASTIC PYROLYSIS REACTOR	2024/08/07
2024/06086	PLASTIC PYROLYSIS HEATING/REACTION RECIPE	2024/08/07
2024/06094	A 3D SCANNER MEASURING DEVICE	2024/08/08
2024/06096	SEARCH AND RESCUE DEVICE BASED ON UNMANNED AERIAL VEHICLE AND SEARCH AND RESCUE METHOD THEREFOR	2024/08/08
2024/06108	SCAN ABUTMENT FOR DENTAL IMPLANTS, METHOD FOR CREATING A MODEL, AND USE OF THE SCAN ABUTMENT	2024/08/08

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2024/06109	FAILSAFE DETONATOR	2024/08/08
2024/06114	BICOLOURED INJECTION-MOULDED PRODUCT AND BI-COLOUR INJECTION-MOULDING METHOD	2024/08/08
2024/06134	METHOD FOR TREATING A PART MADE OF IRON ALLOY FOR IMPROVING THE ANTI-CORROSION PROPERTIES THEREOF	2024/08/08
2024/06135	STANDBY POWER CUT-OFF DEVICE	2024/08/08
2024/06140	MICRO DC RESISTIVITY 3D INVERSION IMAGING METHOD FOR DYNAMIC DAMAGE MONITORING OF ROCK AND SOIL	2024/08/12
2024/06144	METHOD FOR REINFORCING AND TESTING SHIELD SOIL IN HIGH-FILL EMBANKMENT SECTION	2024/08/12
2024/06145	AN INTERACTIVE EXPERIENCE SYSTEM COMBINING AR TECHNOLOGY AND 3D MODELING	2024/08/12
2024/06146	A VIDEO CLASSIFICATION METHOD BASED ON SPATIOTEMPORAL ATTENTION	2024/08/12
2024/06151	AN ADAPTIVE ENVIRONMENTAL BRIGHTNESS IMAGE RECOGNITION SYSTEM BASED ON EMBEDDED SYSTEM	2024/08/12
2024/06158	A KIND OF GREEN ASSEMBLY BUILDING WALL INSTALLATION AUXILIARY EQUIPMENT	2024/08/12
2024/06169	PIPERAZINO RING-CONTAINING DERIVATIVE, PHARMACEUTICALLY ACCEPTABLE SALT THEREOF, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF	2024/08/12
2024/06183	A NEW TYPE OF ANTERIOR CAPSULE MEMBRANE TEARING DEVICE	2024/08/13
2024/06184	A REMOTE SENSING SURVEYING AND MAPPING GEOGRAPHIC INFORMATION DATA ACQUISITION TOOL	2024/08/13
2024/06185	GUIDING DEVICE FOR CULTURAL TOURISM	2024/08/13
2024/06186	REPORT FOLDER BASED ON SELF-GENERATED STICKY NOTES FOR MANAGEMENT	2024/08/13
2024/06187	A BOWLING ARM	2024/08/13
2024/06188	ORGANIC SELENIUM PREPARATION DEVICE FOR INHIBITING CANCER CELL PROLIFERATION AND REPAIRING DAMAGED BODY TISSUE CELLS	2024/08/13
2024/06192	SEALED AND SILENT VALVE FOR THE PRESSURE REGULATION SYSTEM OF A VEHICLE TIRE	2024/08/13
2024/06196	CRF2 RECEPTOR AGONISTS AND THEIR USE IN THERAPY	2024/08/13
2024/06219	DISTRIBUTED CHANNEL ALLOCATION CONTROL METHOD FOR MOBILE AD HOC NETWORK	2024/08/14
2024/06220	SEA GRAPE CULTURE DEVICE	2024/08/14
2024/06221	MEDICAL HEATING BLANKET	2024/08/14
2024/06222	MULTIFUNCTIONAL ROCK TEST SYSTEM	2024/08/14
2024/06232	PLANT BASED FORMULATION FOR FAST PAIN RELIEF AND PREPARATION METHOD	2024/08/14
2024/06255	FAST WATER-INTERCEPTION METHOD FOR WATER-BURSTING POINT IN COAL MINE TUNNEL	2024/08/15
2024/06256	ICU INSTRUMENT PIPELINE POSITIONING DEVICE	2024/08/15
2024/06257	A SILICONE GEL FILLING MATERIAL, ITS	2024/08/15

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	PREPARATION METHOD, AND APPLICATIONS	
2024/06258	SYSTEM FOR ACCURATELY FEEDING PREGNANT PIGS BASED ON MACHINE LEARNING	2024/08/15
2024/06259	FANCY COVERED YARN WITH VARIABLE WRAPPING DENSITY CHARACTERISTICS	2024/08/15
2024/06260	KEY NEGOTIATION METHOD BASED ON DTPM STRUCTURE AND FAST LEARNING RULES	2024/08/15
2024/06261	LEARNING RULE METHOD BASED ON TPM STRUCTURE	2024/08/15
2024/06262	A FREEZE-THAW FISSURED ROCK MASS SAMPLING DEVICE AND METHOD	2024/08/15
2024/06263	DEVICE AND METHOD FOR RAPIDLY TESTING STRENGTH OF FROZEN-THAWED FISSURED ROCK	2024/08/15
2024/06295	DEVICE FOR CYCLICALLY RESTORING CONTAMINATED SOIL BY ELECTRIC-CARBON CO-PROMOTED PERSULFATE OXIDATION	2024/08/16
2024/06296	APPARATUS FOR PREPARING AQUATIC PROTEIN ISOLATE POWDER	2024/08/16
2024/06297	PHOTOTHERMAL CONVERSION ASSEMBLY AND PREPARATION METHOD AND APPLICATION THEREOF	2024/08/16
2024/06298	A SPECIAL EQUIPMENT PRESSURE PIPELINE LEAK TESTING DEVICE	2024/08/16
2024/06299	SECURITY DEVICE	2024/08/16
2024/06302	AN INTELLIGENT CONTROL SEEDER	2024/08/16
2024/06303	PLANT MONITORING DEVICE, SYSTEM, AND METHOD OF MONITORING A PLANT	2024/08/16
2024/06305	A METHOD FOR RAPID IDENTIFICATION OF MYCOBACTERIUM MARINUM SAMPLES BASED ON MULTI-GENE AMPLIFICATION	2024/08/16
2024/06306	A DYNAMIC SCHEDULING SYSTEM AND METHOD FOR UNMANNED TRUCK IN OPEN-PIT MINE BASED ON REINFORCEMENT LEARNING	2024/08/16
2024/06343	HEALTH MANAGEMENT SYSTEM FOR PREMATURE BABIES AFTER DISCHARGE	2024/08/19
2024/06344	MAGNETIC-FIELD- ASSISTED LASER CLEANING METHOD	2024/08/19
2024/06345	IRRIGATION DEVICE FOR CITRUS PLANTING	2024/08/19
2024/06346	GREENHOUSE GAS EMISSION CONCENTRATION ONLINE MONITORING DEVICE	2024/08/19
2024/06349	TWO-IN-ONE SOLID DETERGENT COMPOSITION AND ITS PREPARATION METHOD	2024/08/19
2024/06350	DISHWASHING TABLET, AND PREPARATION METHOD AND USE METHOD THEREOF	2024/08/19
2024/06354	METHODS OF REDUCING HERBICIDAL STRESS USING HUMIC AND FULVIC ACID COMPOSITION TREATMENTS	2024/08/19
2024/06371	WEAR-RESISTANT, HIGH-TOUGHNESS ULTRA-HIGH-CHROMIUM STEEL BALL MATERIAL AND PREPARATION METHOD THEREOF	2024/08/20
2024/06372	METHOD FOR EXTRACTING EXTRACELLULAR POLYMERIC SUBSTANCES FROM CHLORELLA	2024/08/20

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	PYRENOIDOSA	
2024/06373	CEREBROVASCULAR DISEASE INFORMATION DETECTION DEVICE	2024/08/20
2024/06374	ECOLOGICAL RESTORATION DEVICE FOR SURFACE VEGETATION IN KARST DEPRESSION AND RESTORATION METHOD THEREOF	2024/08/20
2024/06378	MECHANICAL BEARING FAULT DIAGNOSIS SYSTEM AND METHOD	2024/08/20
2024/06379	CONTAINER AND METHOD OF ERECTING A CONTAINER	2024/08/20
2024/06382	SUPER ABSORBENT LEAK PROOF BIB	2024/08/20
2024/06404	NONWOVEN FABRIC-BASED ELECTROMAGNETIC SHIELDING MATERIAL AND PREPARATION METHOD THEREOF	2024/08/21
2024/06405	FLEXIBLE WATERPROOF AND MOISTURE PERMEABLE MEMBRANE AND PREPARATION METHOD THEREOF	2024/08/21
2024/06406	A GLASS CLOTH HONEYCOMB CORE MATERIAL AND A PREPARATION METHOD THEREOF	2024/08/21
2024/06407	GLASS SURFACE DEFECT DETECTION METHOD	2024/08/21
2024/06413	ENERGY HANDLING SYSTEM	2024/08/21
2024/06429	SCREENING METHOD FOR COTTON HAVING HIGH YIELD TRAIT, KIT AND APPLICATION	2024/08/22
2024/06430	CUTTING DEVICE FOR PREVENTING AND CONTROLLING PRESSURE RELIEF GROOVE OF FLOOR HEAVE OF COAL MINE ROADWAY	2024/08/22
2024/06431	NONTOXIC CHELATING FLOTATION COLLECTOR FOR ILMENITE TITANIUM SELECTION	2024/08/22
2024/06432	CSPBBR3 PEROVSKITE THIN FILM AND PREPARATION METHOD AND APPLICATION THEREOF, AND ALL-INORGANIC PEROVSKITE SOLAR CELL	2024/08/22
2024/06436	BIOLOGICAL CLOCK MONITORING METHOD FOR PATIENTS WITH CHRONIC DISEASES	2024/08/22
2024/06438	AN INTERNET OF THINGS BASED HOSPITAL AND PATIENT CARING SYSTEM	2024/08/22
2024/06439	A STREET LIGHT SYSTEM FOR POTHOLE DETECTION	2024/08/22
2024/06440	IOT BASED POULTRY FARM MANAGEMENT SYSTEM	2024/08/22
2024/06441	A VIRTUAL REALITY BASED DEVICES CONTROL SYSTEM	2024/08/22
2024/06442	PORTABLE ROAD DUST CLEANING DEVICE	2024/08/22
2024/06443	PNEUMATIC STAPLER MACHINE	2024/08/22
2024/06444	SMART GLASS FOR ALZEIMER PATIENTS	2024/08/22
2024/06445	A SEMI AUTONOMOUS HUMANOID ROBOT FOR SECURITY	2024/08/22
2024/06446	BIODEGRADABLE AGAVE SISALANA SANITARY PADS	2024/08/22
2024/06447	GRAIN DEHYDRATION AND COLLECTING MACHINE	2024/08/22
2024/06450	REMOTE FLUID SAMPLING	2024/08/22
2024/06453	AUTONOMOUS CLIMATE TECHNOLOGY ECOSYSTEM FOR COMPUTER- GENERATED	2024/08/22

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	UNIFORM ENCRYPTED CARBON CREDIT CERTIFICATES	
2024/06454	COLD BONDING ADHESIVES FOR BONDING VULCANIZED RUBBER COMPOUNDS FOR INDUSTRIAL APPLICATIONS	2024/08/22
2024/06455	DEVICES FOR MARKING A CORE SAMPLE	2024/08/22
2024/06463	ANTI-MSLN ANTIBODIES AND METHODS OF USE	2024/08/22
2024/06469	SPORTS FITNESS EQUIPMENT	2024/08/23
2024/06470	HIGH-STRENGTH MAGNESIUM OXYSULFIDE CEMENT AND PREPARATION METHOD THEREOF	2024/08/23
2024/06472	ELASTIC PHOTOCURABLE PEGDA COMPOSITE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF	2024/08/23
2024/06473	CONTROL AGENT FOR SPARTINA ALTERNIFLORA, METHOD FOR CONTROLLING SPARTINA ALTERNIFLORA, AND APPLICATION	2024/08/23
2024/06474	CLAMP FOR MACHINING THROUGH HOLE OF SLIDE BLOCK OF LATERAL CORE PULLING MECHANISM	2024/08/23
2024/06480	A MOBILE FINGERPRINT BASED ATTENDANCE REGISTER	2024/08/23
2024/06481	A TELE PROTECTOR SYSTEM	2024/08/23
2024/06482	A SYSTEM FOR GUIDING FISHERMAN IN OCEAN	2024/08/23
2024/06483	HERBICIDAL COMPOSITION CONTAINING 3-(2-CHLORO-4-FLUORO-5-(3-METHYL-2,6-DIOXO-4-TRIFLUOROMETHYL-3,6-DIHYDROPYRIMIDIN-1(2H)-YL)PHENYL)-5-METHYL-4,5-DIHYDROISOXAZOLE-5-CARBOXYLIC ACID ETHYL ESTER AND GLUFOSINATE-P AND USE THEREOF	2024/08/23
2024/06489	NOVEL NAPROXEN SODIUM PREPARATIONS FOR PARENTERAL ADMINISTRATION	2024/08/23
2024/06490	COMPOSITION AND METHOD FOR TREATING AND PURIFYING WATER BY MEANS OF A COMBINATION OF COMPOUNDS DERIVED FROM ALUMINIUM, CHLORINE AND SODIUM	2024/08/23
2024/06519	ALL-SOLID WASTE-BASED CEMENTITIOUS MATERIAL, PREPARATION METHOD AND APPLICATION THEREOF	2024/08/26
2024/06522	A METHOD FOR AIR PURE	2024/08/26
2024/06523	COIR PITH CONCRETE PANEL	2024/08/26
2024/06524	A METHOD FOR MANUFACTURING STUCCO BRICKS	2024/08/26
2024/06525	AN AUTOMATIC PET FEEDER	2024/08/26
2024/06526	POWER SOURCE GENERATION SYSTEM VIA WIND ENERGY	2024/08/26
2024/06527	TEMPERATURE ADJUSTABLE BULLET PROOF JACKET	2024/08/26
2024/06528	AUTONOMOUS STREET LIGHT FAULT DETECTION SYSTEM	2024/08/26
2024/06529	PROXIMITY LOCK SYSTEM	2024/08/26
2024/06530	STAPLER CUM PUNCH MACHINE	2024/08/26
2024/06531	A LUGGAGE CARRIER FOR TWO WHEELERS	2024/08/26
2024/06532	A SPRINKLER IRRIGATION SYSTEM	2024/08/26
2024/06533	SOLAR CELL POWERED THERMOELECTRIC	2024/08/26

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	REFRIGERATION TECHNOLOGY FOR FRUITS AND VEGETABLES TRANSPORTING VEHICLES	
2024/06534	NO WET HEAT AND MOISTURE ALERT MOBILE CASE	2024/08/26
2024/06535	AUTOMATIC CROP PROTECTION USING ALARM SYSTEM	2024/08/26
2024/06536	AUTOMATED WILDLIFE BOUNDARY KEEPER	2024/08/26
2024/06538	APTAMER FOR SPECIFICALLY RECOGNIZING SOLUBLE ST2 AND USE THEREOF	2024/08/26
2024/06559	A METHOD FOR PHOTOCATALYTIC DISSOLUTION OF PRECIOUS METALS	2024/08/27
2024/06564	METHOD FOR EXTRACTING SOLANINE FROM ORGANS OF POTATO	2024/08/27
2024/06565	SYNTHESIS METHOD FOR CHIRAL ALCOHOL WITH ORTHO-CHIRAL CENTER	2024/08/27
2024/06566	SIMPLIFIED COTTON CULTIVATION METHOD COMPLETELY RELYING ON SETTING BOLLS ON VEGETATIVE BRANCHES	2024/08/27
2024/06569	AN AUTOMATIC CRABBING DEVICE	2024/08/27
2024/06570	A FLAWLESS FLASKET	2024/08/27
2024/06571	WELD POWER GENERATOR	2024/08/27
2024/06572	SYSTEM AND METHOD FOR MANAGING ENERGY STORAGE BATTERY	2024/08/27
2024/06573	WASH BASIN WITH SMART STRAINER	2024/08/27
2024/06574	FREE FALL PROTECTION AIR BAG	2024/08/27
2024/06575	AN APPARATUS FOR DUMBBELL STORAGE	2024/08/27
2024/06576	A FORGE SMART SWITCH	2024/08/27
2024/06577	SYSTEM AND METHOD FOR MONITORING AND MANAGING POWER ENDURANCE OF AN ENERGY STORAGE BATTERY PACK	2024/08/27
2024/06578	SMART SKATING BOARD	2024/08/27
2024/06579	REHABILITATION MACHINE FOR LUMBAR VERTEBRA NURSING	2024/08/27
2024/06584	ELLIPTICAL DRIVE	2024/08/27
2024/06607	GREEN AND ENERGY-SAVING PREFABRICATED BUILDING WALL COMPONENT	2024/08/28
2024/06608	SMART ASSISTANT TRAINING DEVICE FOR PHYSICAL EDUCATION	2024/08/28
2024/06609	LIGAMENT TRAINING DEVICE FOR PHYSICAL EDUCATION	2024/08/28
2024/06610	GRAND CANAL CULTURAL HERITAGE LANDSCAPE PERCEPTION EVALUATION DEVICE	2024/08/28
2024/06611	FUNCTIONAL PROTEIN FEED ADDITIVE BASED ON COMBINED YEAST FERMENTATION OF BAIJIU DISTILLER'S GRAIN, PREPARATION METHOD AND APPLICATION THEREOF	2024/08/28
2024/06612	MAGNESIUM OXYSULFATE CEMENT HIGH-STRENGTH FOAM BOARD AND PREPARATION METHOD THEREOF	2024/08/28
2024/06613	ANIMAL BED	2024/08/28
2024/06614	BLASTING HOLE CHARGING DEVICE FOR MINE ROCK BLASTING	2024/08/28

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2024/06617	INSULIN CONTAINING PHARMACEUTICAL COMPOSITIONS	2024/08/28
2024/06618	INSULIN CONTAINING PHARMACEUTICAL COMPOSITIONS	2024/08/28
2024/06619	A SAFETY SYSTEM FOR AN ASSISTIVE BLIND STICK	2024/08/28
2024/06620	AN AUTOMATED SOLAR DRONE FOR SURVEILLANCE AND SECURITY	2024/08/28
2024/06621	A SYSTEM FOR VEHICLE COLLISION DETECTION USING COMPUTER BASED INTELLIGENCE	2024/08/28
2024/06622	AN AUTOMATIC CUT OFF SYSTEM FOR AN ELECTRIC MOTOR PROTECTION	2024/08/28
2024/06623	AN ELECTRIC BIKE THEFT PROTECTION SYSTEM	2024/08/28
2024/06624	AN INDUSTRIAL AUTOMATION SYSTEM FOR PRODUCTION LINE	2024/08/28
2024/06625	A METHOD OF PREPARATION OF PAVER BLOCK USING PLASTIC WASTE AND RECYCLED AGGREGATES	2024/08/28
2024/06626	A SYSTEM FOR GUIDING PARENTS IN ACADEMIC INSTITUTIONS	2024/08/28
2024/06627	A RETRACTABLE LADDER SYSTEM FOR LOAD CARRYING VEHICLE	2024/08/28
2024/06628	AN INTEGRATED SYSTEM FOR MANAGING WATER LEVEL IN SUBWAY FOR ACCIDENT PREVENTION	2024/08/28
2024/06629	ARTIFICIAL INTELLIGENCE ENABLED HEALTH MONITORING SYSTEM	2024/08/28
2024/06630	A SYSTEM FOR TABLE AND FOOD RESERVATION IN RESTAURANTS	2024/08/28
2024/06631	AN INTELLIGENT WAVE REPULSION TECHNIQUE BASED SAFETY SYSTEM FOR VEHICLES	2024/08/28
2024/06632	A SYSTEM FOR CONTROLLING THE FLOW OF FLUID IN A FLOW CONTROL VALVE	2024/08/28
2024/06634	METHOD FOR IMPROVING AROMA OF BLACK TEA	2024/08/28
2024/06635	METHOD FOR INCREASING THEAFLAVIN OF BLACK TEA	2024/08/28
2024/06636	FORMULATING AND ANALYSING THE EFFECT OF CURCUMA LEUCORRHIZA ROXB. IN TREATING EXPERIMENTALLY INDUCED DIABETES MELLITUS	2024/08/28
2024/06671	A DEVICE FOR DETECTING DANGEROUS GOODS DURING AVIATION TRANSPORTATION	2024/08/29
2024/06674	TRAFFIC FLOW PREDICTION METHOD BASED ON FEDERATED LEARNING AND ASYNCHRONOUS GRAPH CONVOLUTIONAL NETWORK	2024/08/29
2024/06675	AN IMPLEMENTATION METHOD FOR SETTING THE LATERAL ISOLATION BOUNDARY TO ACHIEVE THE PREVENTING LATERAL SEEPAGE AND REDUCTION OF FRICTION IN-SITU SLOPE TESTING BY LOCAL ARTIFICIAL RAINFALL	2024/08/29
2024/06676	A DETECTION TROLLEY	2024/08/29
2024/06679	AN ARTIFICIAL INTELLIGENCE POWERED DETECTION SYSTEM FOR TRAFFIC OPTIMIZATION	2024/08/29
2024/06680	DESIGN METHOD AND SYSTEM FOR UNDERLYING MECHANISM OF USER INTERFACE INTERACTION IN	2024/08/29

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	AIRCRAFT PERFORMANCE SOFTWARE	
2024/06681	LASER WELDING ROBOT AND WELDING METHOD THEREFOR	2024/08/29
2024/06682	A SYSTEM FOR INSPECTION OF PLASTIC BOTTLES	2024/08/29
2024/06683	RECOMBINANT FUSION PROTEIN OF HORSE FSH AND ITS PREPARATION METHOD AND APPLICATIONS	2024/08/29
2024/06684	TRADITIONAL CHINESE MEDICINE COMPOSITION WITH KIDNEY TONIFYING AND SPLEEN AND STOMACH STRENGTHENING, PREPARATION METHOD THEREFOR, AND USE THEREOF	2024/08/29
2024/06685	A SHIELD LAUNCHING GUIDE PLATFORM AND A LAUNCHING ANGLE ADJUSTMENT METHOD	2024/08/29
2024/06687	PNEUMATIC CONVEYOR DEVICE FOR GRANULAR MATERIAL, AND AGRICULTURAL DISTRIBUTING MACHINE	2024/08/29
2024/06696	BAKING RACK CONVENIENT FOR UNLOADING	2024/08/29
2024/06697	BAKING OVEN	2024/08/29
2024/06705	METHOD FOR SEPARATING FEMALE GAMETOPHYTES OF PINUS TABULAEFORMIS CARR. IN FREE NUCLEUS STAGE	2024/08/30
2024/06706	COMPOSITE CEMENTITIOUS MATERIAL CONTAINING MOLTEN IRON DESULFURIZATION SLAG AND PREPARATION METHOD THEREOF	2024/08/30
2024/06707	TOAD OIL, AND PREPARATION METHOD AND APPLICATION THEREOF	2024/08/30
2024/06708	A CONSTANT TEMPERATURE DEVICE AND SYSTEM FOR PHARMACEUTICAL WAREHOUSE STORAGE	2024/08/30
2024/06709	RESILIENT LINK FOR CONVEYOR CHAIN	2024/08/30
2024/06711	BEIDOU-BASED AIRBORNE COMMUNICATION TERMINAL	2024/08/30
2024/06712	UNMANNED AERIAL VEHICLE DEVICE FOR REMOTE SENSING SETTLEMENT MONITORING OF GEOLOGICAL DISASTERS	2024/08/30
2024/06713	WALKING AID FOR NURSING	2024/08/30
2024/06739	AGRICULTURAL FENCING	2024/08/30
2024/06746	DEVICE FOR SMOKELESS MOXIBUSTION	2024/09/02
2024/06747	DETECTION DEVICE FOR SIMULATING DRIVING SUITABILITY OF DRIVER	2024/09/02
2024/06748	THREE-DIMENSIONAL RECONSTRUCTION METHOD FOR PROTECTING ANCIENT BUILDINGS USING TIME SERIES INSAR AND UNMANNED AERIAL VEHICLE REMOTE SENSING	2024/09/02
2024/06749	A FEED MIXING DEVICE FOR SHEEP FARMING	2024/09/02
2024/06750	A HEAD FIXATION DEVICE FOR SHEEP USED IN PRODUCTION	2024/09/02
2024/06751	DOUBLE-STATION LASER WELDING APPARATUS AND WELDING PLATFORM	2024/09/02
2024/06752	NON-CONTACT MUD PUMP PROTECTION DEVICE FOR SHIELD TUNNELING MACHINE, AND USE METHOD AND APPLICATION THEREOF	2024/09/02
2024/06753	BIG DATA-BASED REAL-TIME ANALYSIS SYSTEM	2024/09/02

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2024/06771	SPORE ENZYME AND SPORE ENZYME SERIES FERTILIZER, AND APPLICATIONS THEREOF IN AGRICULTURE	2024/09/03
2024/06772	METHOD FOR INDUCING COLORING OF RED MANGIFERA INDICA BY UV-A/WHITE LIGHT	2024/09/03
2024/06773	MECHANICALLY DIRECT-SEEDING RICE BUNDLING PELLETTED SEEDS AND PREPARATION METHOD THEREOF	2024/09/03
2024/06774	AN OPTICAL LENS PROCESSING CLAMPING DEVICE	2024/09/03
2024/06775	ENVIRONMENT-FRIENDLY ASPHALT PAVEMENT LOSS DETECTION METHOD BASED ON NEURAL NETWORK	2024/09/03
2024/06776	INTELLIGENT POWER CONSTRUCTION SAFETY RISK ASSESSMENT METHOD AND SYSTEM BASED ON MULTI-SOURCE DATA FUSION	2024/09/03
2024/06780	TOPICAL COMPOSITIONS FOR IMPROVED HAIR GROWTH AND/OR REDUCED HAIR FALL	2024/09/03
2024/06781	CLINICAL DIAGNOSTIC DEVICE FOR GASTROENTEROLOGY	2024/09/03
2024/06782	NOVEL ULTRASONIC MEDICINE DELIVERY SYSTEM BASED ON CELLULOSE NANOCRYSTALS, PREPARATION METHOD AND APPLICATION THEREOF	2024/09/03
2024/06783	COMPOSITION, METHOD AND SYSTEM FOR PREPARING HYBRID NANO FLUID OF DIVERSE NANO MATERIAL	2024/09/03
2024/06784	CARBON ENGINEERING EMISSION PROCESSING APPARATUS FOR ENGINEERING CONSTRUCTION	2024/09/03
2024/06801	SERVICE MANAGEMENT SYSTEM FOR ENGINEERING TECHNICAL CONSULTATION	2024/09/04
2024/06802	A PIANO SCORE STAND WITH AUTOMATIC PAGE FLIPPING	2024/09/04
2024/06804	ROTATING PLATFORM FOR INDOOR SPACE SURVEYING AND MAPPING INSTRUMENT	2024/09/04
2024/06807	A BATCH CLEANING DEVICE FOR OPTICAL LENS PROCESSING	2024/09/04
2024/06842	PROTEIN ISOLATION APPARATUS FOR EXTRACTING PROTEINS FROM SESAME SEED MEAL	2024/09/05
2024/06843	DESIGN METHOD OF COLD RECYCLED MIXTURE CONSIDERING MULTIVARIABLE COMBINATION	2024/09/05
2024/06844	METHOD FOR COLOR FIXATION AND PRESERVATION OF SWEET POTATOES	2024/09/05
2024/06846	ASSEMBLY OF A RECEIVER WITH A BARREL	2024/09/05
2024/06873	A MICROALGAE TREATMENT WASTEWATER PHOTOBIOREACTOR WITH AUTOMATIC ADJUSTABLE SCRAPING WALL	2024/09/06
2024/06874	AN AUXILIARY DEVICE FOR INSULATION PIPELINE CONSTRUCTION	2024/09/06
2024/06875	MOVABLE LIFTING WORKING PLATFORM OF SLAUGHTER	2024/09/06
2024/06876	METHOD FOR CONTROLLING BLACKHEART	2024/09/06

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	DISEASE OF WAX GOURD	
2024/06878	SAFETY PROTECTION FACILITY FOR LACTATING PIGS	2024/09/06
2024/06879	BREEDING BOX FOR BREEDING OF HOG	2024/09/06
2024/06880	AN INTEGRATED EARLY WARNING DEVICE FOR MINE DYNAMIC DISASTERS BASED ON NUCLEAR MAGNETIC RESONANCE	2024/09/06
2024/06881	A MINING-INDUCED WATER INRUSH EARLY WARNING DEVICE UTILIZING NUCLEAR MAGNETIC RESONANCE TECHNOLOGY	2024/09/06
2024/06882	A TRADITIONAL CHINESE MEDICINE LINIMENT FOR TREATING JOINT PAIN AND A PREPARATION METHOD THEREOF	2024/09/06
2024/06904	GRAPHIC IMAGE PROCESSING PLATFORM	2024/09/09
2024/06936	METHOD AND SYSTEM FOR DETECTING POLYMER COMPOSITE MATERIAL BASED ON SHEAR RHEOMETER	2024/09/10
2024/06941	LARGE-TORSION VERTICAL-AXIS DOUBLE-REVERSE WIND ENERGY CONVERSION APPARATUS	2024/09/10
2024/06942	FOREST INFORMATION EXTRACTION METHOD BASED ON UNMANNED AERIAL VEHICLE AND LASER RADAR	2024/09/10
2024/06945	NIRF/PA DUAL-MODAL PROBE BASED ON NTR RESPONSE AND PREPARATION METHOD AND APPLICATION THEREOF	2024/09/10
2024/06972	PREPARATION METHOD FOR BIMETALLIC IRON-BASED CHITOSAN ADSORBENT AND APPLICATION OF REMOVING AS(III) IN WATER	2024/09/11
2024/06973	MANAGEMENT METHOD BASED ON DIGITAL TWIN MODELING FOR DRIP IRRIGATION PRODUCT PRODUCTION LINE	2024/09/11
2024/06975	METHOD AND APPARATUS FOR PROCESSING HYSTERESIS DATA	2024/09/11
2024/06976	A CONVENIENT OUTDOOR SOIL CULTIVATION DEVICE FOR REGULATION	2024/09/11
2024/06977	METHOD FOR EXTRACTING ELECTROMAGNETIC PARAMETERS OF MATERIALS BASED ON MACHINE LEARNING GRADIENT DESCENT ALGORITHM	2024/09/11
2024/06978	KIT FOR DETECTING CYTOCHROME P4502D6 METABOLIC ENZYME AND APPLICATION THEREOF	2024/09/11
2024/06979	COMPUTER NETWORK SECURITY SYSTEM BASED ON VIRTUALIZATION TECHNOLOGY	2024/09/11
2024/06980	ADJUSTABLE SERVE DEVICE FOR TABLE TENNIS TRAINING	2024/09/11
2024/06981	DEVICE FOR REMOVING BURRS OF RUBBER SEALING RING BASED ON VISUAL INSPECTION	2024/09/11
2024/06983	SORGHUM EXTRACT GANODERMA ORIGINAL CULTURE MEDIUM AND PREPARATION METHOD	2024/09/11
2024/06984	EXPERIMENTAL METHOD FOR EVALUATING THE IMPACT OF NUTRIENTS ON GRAY JUJUBE WINE QUALITY	2024/09/11

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2024/07009	PHOTO SELECTIVE LIGHT BARRIER FILM ARRANGEMENT	2024/09/11
2024/07010	1-METHYLCYCLOPROPENE SUBSTRATE ARRANGEMENT	2024/09/11
2024/07012	METHOD AND SYSTEM FOR STUDYING STABILITY OF VEGETATION SYSTEM BASED ON VEGETATION INDEXES	2024/09/12
2024/07014	A BINDER FOR AN ORAL PHARMACEUTICAL COMPOSITION	2024/09/12
2024/07015	HIGH-THROUGHPUT SEQUENCING PRIMER PAIR FOR SYNCHRONOUSLY DETECTING LIVESTOCK AND FISH SPECIES AND APPLICATION THEREOF	2024/09/12
2024/07052	BRIDGE IMPACT EXPERIMENTAL DEVICE	2024/09/13
2024/07055	PRIMER-PROBE SET FOR SYNCHRONOUSLY DETECTING EIGHT KINDS OF ANIMAL MILK-DERIVED COMPONENTS AND ITS APPLICATIONS, GENE MEMBRANE CHIP AND PREPARATION METHOD	2024/09/13
2024/07100	DEVICE FOR RAPIDLY COLLECTING GROUNDWATER SAMPLE	2024/09/16
2025/00076	VISIBLE LIGHT CALIBRATOR, LASER DEVICE AND CALIBRATION METHOD	2025/01/02
2025/00199	CONTROL METHOD AND SYSTEM FOR INTELLIGENT COMPACT SHELF, AND TERMINAL AND STORAGE MEDIUM	2025/01/06
2025/00488	PHISHING EMAIL RECOGNITION METHOD AND DEVICE BASED ON MAIL DETECTION NETWORK MODEL	2025/01/15
2025/01100	COMPOSITE MESH	2025/02/04
2025/01216	LIGHT-ADJUSTABLE LED LAMP	2025/02/10
2025/01491	HIGH AND LOW TEMPERATURE TEST DEVICE FOR POWER BATTERY OF NEW ENERGY VEHICLE	2025/02/18
2025/01522	RETINOL DERIVATIVE OR ITS SALT, AND PREPARATION METHOD AND APPLICATION THEREOF	2025/02/18
2025/01659	DEVICE AND METHOD FOR DETECTING QUARANTINE WEED SEEDS	2025/02/24

DESIGNS

Advertisement List for March 2025

Number of Advertised Designs: 79

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A2022/00481	ROCKBOLT	2022/05/06

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A2022/00483	ROCKBOLT	2022/05/06
A2022/00635	CONNECTOR	2022/06/07
A2022/00637	INDICATOR	2022/06/07
A2024/00046	A DISPLAY DEVICE	2024/01/15
A2024/00117	PROCESSING CARTRIDGE	2024/01/02
A2024/00469	HAIR TRIMMER WITH GRIP	2024/05/20
A2024/00470	HAIR TRIMMER WITH GRIP	2024/05/20
A2024/00509	DRUG DELIVERY SYSTEMS	2024/06/03
A2024/00516	AUTOMOBILES	2024/06/04
A2024/00537	Set of Containers	2024/06/10
A2024/00538	Container	2024/06/10
A2024/00545	BOTTLES	2024/06/12
A2024/00546	BOTTLES	2024/06/12
A2024/00568	A LID	2024/06/13
A2024/00569	Automobile	2024/06/13
A2024/00582	A SOLAR END BRACKET	2024/06/19
A2024/00584	A CONTAINER	2024/06/19
A2024/00587	Remote Control	2024/06/19
A2024/00588	Gantry Crane	2024/06/19
A2024/00595	NETWORK VIDEO RECORDERS	2024/06/20
A2024/00596	CASING FOR SECURITY DEVICES	2024/06/20
A2024/00602	Car	2024/06/20
A2024/00603	Car	2024/06/20
A2024/00604	Car	2024/06/20
A2024/00605	Toy Car	2024/06/20
A2024/00606	Toy Car	2024/06/20
A2024/00607	Toy Car	2024/06/20
A2024/00611	Crates	2024/06/24
A2024/00614	Braces for Ballast Tanks	2024/06/24
A2024/00624	Bottle	2024/06/26
A2024/00625	Bottle	2024/06/26
A2024/00626	Bottle	2024/06/26
A2024/00635	A VENT FITTING SET	2024/06/27
A2024/00636	A VENT FITTING SET	2024/06/27
A2024/00637	A VENT FITTING SET	2024/06/27
A2024/00638	A VENT CONNECTOR	2024/06/27
A2024/00639	A VENT CONNECTOR	2024/06/27
A2024/00640	A VENT FITTING SET	2024/06/27
A2024/00641	A VENT FITTING SET	2024/06/27
A2024/00642	A VENT FITTING SET	2024/06/27
A2024/00643	A VENT STRAP SADDLE	2024/06/27
A2024/00645	A VENT FITTING SET	2024/06/27
A2024/00646	A VENT FITTING SET	2024/06/27
A2024/00647	A VENT FITTING SET	2024/06/27
A2024/00648	A VENT CONNECTOR	2024/06/27
A2024/00649	A VENT CONNECTOR	2024/06/27
A2024/00650	A VENT FITTING SET	2024/06/27
A2024/00651	A VENT FITTING SET	2024/06/27
A2024/00652	A VENT FITTING SET	2024/06/27
A2024/00653	A VENT STRAP SADDLE	2024/06/27

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A2024/00660	TYRE	2024/07/01
A2024/00699	MEASURING INSTRUMENT	2024/07/17
A2024/00721	A BOTTLE	2024/07/19
A2024/00742	A BOTTLE	2024/07/29
A2024/00743	A BOTTLE	2024/07/29
A2024/01242	APARTMENT COMPLEX	2024/12/03
A2025/00007	STROLLER WAGON	2025/01/02
A2025/00089	SPORTS BAR	2025/01/20
F2021/01541	ELECTRIC WATER HEATING COIL CONFIGURATION	2021/12/17
F2022/00480	ROCKBOLT	2022/05/06
F2022/00482	ROCKBOLT	2022/05/06
F2022/00634	CONNECTOR	2022/06/07
F2022/00636	INDICATOR	2022/06/07
F2022/00636	INDICATOR	2022/06/07
F2024/00047	A DISPLAY DEVICE	2024/01/15
F2024/00438	PROFILE	2024/05/08
F2024/00539	Cap for a Container	2024/06/10
F2024/00580	SOLAR LUMINAIRE	2024/06/18
F2024/00583	A SOLAR END BRACKET	2024/06/19
F2024/00612	Crates	2024/06/24
F2024/00613	A SECURING DEVICE	2024/06/24
F2024/00615	Braces for Ballast Tanks	2024/06/24
F2024/00634	Splitter assemblies for separators	2024/06/27
F2024/00644	AIR PURIFIERS	2024/06/27
F2024/00702	BALL COLLECTOR AND DISPENSER	2024/07/17
F2024/00722	A BOTTLE	2024/07/19
F2024/00761	BARBECUE GRID SUPPORTS	2024/07/31
F2024/00807	CLADDING PRODUCT	2024/08/15