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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 2025/11/21 -

2025/09970 ~ Complete ~54:BUILDING CONSTRUCTION SYSTEM WITH JOINABLE HOLLOW LOAD-BEARING ELEMENTS AND PRODUCTION METHOD ~71:UHCS PROPERTY SA, Champ-au-Rey 11, 1673, Rue, Switzerland ~72: IGOR USTINOV~ 33:CH ~31:CH000419/2023
~32:22/04/2023;33:CH ~31:CH000438/2023 ~32:26/04/2023

2025/09940 ~ Complete ~54:A ROOTING METHOD FOR HARD BRANCH CUTTING OF WILD PEACH ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: Chang Huihui;Ding Huanhuan;Lu Guangyi;Wei Pengfei;Wu Miao;Xie Zhaohui~

2025/09947 ~ Complete ~54:A METHOD FOR IMPROVING THE THERMOELECTRIC PERFORMANCE OF HYDROGENATED TWO-DIMENSIONAL GRAPHENE-BASED TOPOLOGICAL MATERIALS ~71:Kunming University of Science and Technology, No. 68 Wenchang Lane, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Ju Rong;Jueyi Ye;Xiaohua Yu;Yi Lu~ 33:CN ~31:202510081531.6
~32:20/01/2025

2025/09939 ~ Complete ~54:METHOD FOR DETERMINING SAFETY OF RECTANGULAR BUILDING FOUNDATION IN ROCKY GOAF AND RELATED APPARATUS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China;Luanchuan Longyu Molybdenum Industry Co., Ltd., Intersection of Mudou Road and Binhe Road, Luanchuan County, Luoyang City, Henan Province, 471599, People's Republic of China;Zhonghe Dadi Ecological Technology Co., Ltd., Building 14, Hepingli 7th District, Dongcheng District, Beijing City, 100013, People's Republic of China ~72: CHEN, Peng;GUO, Guo;JIA, Haipeng;KANG, Xiangyang;LI, Jiadong;LIANG, Yunfei;LU, Pingshan;PAN, Bowen;SHEN, Yuezhi;YU, Zilong;ZHANG, Haijiang;ZHENG, Haihua;ZHU, Jipeng~
2025/09944 ~ Complete ~54:A METHOD OF REGULATING THE NRF2-HO-1 PATHWAY BY COPPER-SCRAPER SCRAPING THERAPY TO IMPROVE PANCREATIC ISLET CELL DAMAGE IN DIABETES ~71:Shanxi Provincial Integrated TCM And WM Hospital, No. 13 Fudong Street, Xinghualing District, Taiyuan City, Shanxi Province, 030002, People's Republic of China;Shanxi University of Chinese Medicine, No. 121 Daxue Street, University Park, Jinzhong City, Shanxi Province, 030619, People's Republic of China ~72: Guiyu Wang;Jianguo Wang;Jing Bai;Lin Lai;Qi Liu;Zhuoyue Jia~

2025/09950 ~ Complete ~54:SOLVENT COMPOSITIONS PROMOTING PLANT GROWTH ~71:WINFIELD SOLUTIONS, LLC, 4001 Lexington Ave. N, Arden Hills, Minnesota, 55126, United States of America ~72: CLIFF WATRIN;DUSTYN SAWALL;LEE BOLES;SHELBY STARK~ 33:US ~31:16/936,192 ~32:22/07/2020

2025/09959 ~ Complete ~54:VEHICLE, CAP LAMP SYSTEM AND METHODS FOR COLLISION AVOIDANCE ~71:Newtrax Technologies Inc., 360 St-Jacques Street, 8th Floor, MONTRÉAL H2Y 1P5, QUÉBEC, CANADA, Canada;Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: BOUCHARD, Martin;BOUCHARD, William-Alexis;CERVINKA, Alexandre;HOWARD, William~
33:US ~31:63/464,040 ~32:04/05/2023

2025/10076 ~ Provisional ~54:AUTOMATED WIG CONSTRUCTION ~71:Tsholofelo, Osmium crescent Lenasia South, South Africa ~72: Tsholofelo~

2025/09961 ~ Complete ~54:CONTROL OF AMMONIA OR METHANOL SYNTHESIS LOOP AT PARTIAL LOAD ~71:Casale SA, Via Pocobelli 6, LUGANO 6900, SWITZERLAND, Switzerland ~72: CARRARA, Davide;CORBETTA, Michele;GENOVA, Giovanni;PANZA, Sergio;PIN, Mattia~ 33:EP ~31:23179508.9
~32:15/06/2023

2025/09934 ~ Provisional ~54:WIRELESS PERSONAL AREA NETWORK GATEWAY DEVICE ~71:PARKIN, Norman Frederick, 12 Sycamore Street, South Africa ~72: PARKIN, Norman Frederick~
2025/09943 ~ Complete ~54:VIRTUAL REALITY-BASED LITIGATION TRIAL SIMULATION METHOD AND SYSTEM ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: CHENG Peng;HU Qianru;JIA Xun;XU Jingsheng;XU Nana~
2025/09945 ~ Complete ~54:A METHOD FOR ATTACHING SHEETS OF PACKAGING MATERIAL AND AN ARTICLE OF PACKAGING ~71:NIMB, George Frederick, Park Street 18, TZANEEN 0850, Limpopo Province, SOUTH AFRICA, South Africa ~72: NIMB, George Frederick~ 33:ZA ~31:2024/06796 ~32:04/09/2024
2025/09948 ~ Complete ~54:LIGHT FITTING ~71:ELECTROFLAME MANUFACTURING (PTY) LTD., 83 Brand Street, President Park Ah, Midrand, Gauteng, South Africa ~72: MICHEL WEEKS~ 33:ZA ~31:2024/06401 ~32:21/08/2024
2025/09949 ~ Complete ~54:SOFT SHELL LEUKOCYTE REDUCTION FILTER ~71:NANJING SHUANGWEI BIOTECHNOLOGY CO., LTD., No. 123 Huakang Road, Jiangbei New District, Nanjing, Jiangsu, 210061, People's Republic of China ~72: ENQUAN LIU;JIAN WANG;JIANG WANG;SHAOXIN LIU;ZHENG LI~ 33:CN ~31:2025102549280 ~32:05/03/2025
2025/09953 ~ Complete ~54:VERTICAL CUP-ELEVATOR FOR TRANSFERRING BULK PRODUCT, BULK TRANSPORT SYSTEM COMPRISING SUCH ELEVATOR AND METHOD FOR TRANSFERRING BULK PRODUCT WITH SUCH ELEVATOR ~71:QIMAROX PATENTEN B.V., Nobelstraat 43, 3846 CE, Netherlands ~72: HANNESSEN, Pieter Gerrit~ 33:NL ~31:2034900 ~32:23/05/2023
2025/09955 ~ Complete ~54:VALVE ~71:HOREN CORTP CO., LTD., 28th Floor, Building A, NO.1520 Gumei Road, Caohejing Hi-Tech Park, Xuhui District, People's Republic of China ~72: Zhengwei FANG~ 33:CN ~31:2023105113908 ~32:08/05/2023
2025/09956 ~ Complete ~54:HUMAN-DERIVED ANTI-COLLAPSEN RESPONSE MEDIATOR PROTEIN 2 (CRMP2) ANTIBODIES ~71:Ono Pharmaceutical Co., Ltd., 1-5, Dosho-machi 2-chome, Chuo-ku, OSAKA-SHI 5418526, OSAKA, JAPAN, Japan ~72: ARIMA, Naoki;COMBALUZIER, Benoit;GRATHWOHL, Stefan;GRIMM, Jan;MITSUI, Katsukuni;MOESE, Stefan;NAKATANI, Shingo;OKINO, Tomotaka;YANAGIDA, Takashi~ 33:EP ~31:23169571.9 ~32:24/04/2023
2025/09958 ~ Complete ~54:COMPOSITION FOR USE IN A SUBJECT ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: MAINARDI, Fabio;RAJHANS, Purva;SCHNEIDER, Nora~ 33:EP ~31:23170830.6 ~32:28/04/2023
2025/09960 ~ Complete ~54:TEMPERATURE CONTROL DEVICE SURROUNDING EQUIPMENT PENETRATING A PRESSURIZED VESSEL ~71:Westinghouse Electric Company LLC, 1000 Westinghouse Drive, Suite 141, CRANBERRY TOWNSHIP 16066, PA, USA, United States of America ~72: SCHRUM, Phillip B.;VEROSKY, Mark A.;YOUNG, Jason S.~ 33:US ~31:18/346,132 ~32:30/06/2023
2025/09965 ~ Complete ~54:CONDENSED AZINES AS TYK2 INHIBITORS AND USES THEREOF ~71:SUDO BIOSCIENCES LIMITED, 3rd Floor 1 Ashley Road, United Kingdom ~72: PANDEY, Anjali~ 33:US ~31:63/504,693 ~32:26/05/2023
2025/09931 ~ Provisional ~54:GOVERNANCE DIGITAL ECOSYSTEM ARCHITECTURE ~71:Noluthando Carol Mthethwa, 26 leigh glen road, glendale gardens, Malvern, Queensburgh, South Africa ~72: Noluthando Carol Mthethwa~ 33:ZA ~31:N/A ~32:19/11/2025
2025/09935 ~ Provisional ~54:SURGICAL SUCTION DEVICE WITH ADJUSTABLE APERTURE EXPOSURE ~71:Juandre Kloppe, 26 Richter Avenue, South Africa ~72: Juandre Kloppe~
2025/09936 ~ Provisional ~54:ROTOR LINE MOTOR ~71:NATHANAEL FRANKLIN JOHN FOURIE, 36 PASTEUR STREET, CAPE FARMS, South Africa ~72: NATHANAEL FRANKLIN JOHN FOURIE~
2025/09952 ~ Complete ~54:PLANT TRAY ~71:VAN ZYL, VINCENT VERNON, NO 4 DEAD END, South Africa ~72: VAN ZYL, VINCENT VERNON~
2025/09954 ~ Complete ~54:COMPOUNDS AND METHODS FOR TREATING HUMAN SUBJECTS ~71:STOKE THERAPEUTICS, INC., 45 Wiggins Avenue, United States of America ~72: AZNAREZ, Isabel;DIVAKARAMENON, Sethumadhavan;JEON, Hyun-Yong;SCHARNER, Juergen~ 33:US ~31:63/499,779 ~32:03/05/2023
2025/09957 ~ Complete ~54:NOVEL ANTIBODIES TARGETING CD3 AND ANOTHER TARGET AND USES THEREOF ~71:Antengene Biologics Limited, Suite 1206-1209, Block B, Zhongshan SOHO Plaza, 1065 West Zhongshan Road, Changning District, SHANGHAI 200051, CHINA (P.R.C.), People's Republic of China ~72: BIAN, Gang;CHEN, Peng;HOU, Bing;LI, Tengeng;LIU, Huiling;REN, Yijing;SHAN, Bo;SUN, Ao;YUWEN, Hui~ 33:IB ~31:2023/099556 ~32:09/06/2023;33:IB ~31:2023/118666 ~32:13/09/2023;33:IB ~31:2024/086269 ~32:05/04/2024

2025/09963 ~ Complete ~54:A COMPUTER-IMPLEMENTED METHOD OF ISSUING CERTIFICATES
~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa
~72: KRUGER, Sean~

2025/09951 ~ Complete ~54:PHTHALAZINONE COMPOUND, AND PREPARATION METHOD THEREFOR
AND MEDICAL USE THEREOF ~71:JIANGXI JEMINCARE GROUP CO., LTD, Block 14, Zhongxing Nanchang
Software Park Industrial Park, No.688 Aixihu North Road, Nanchang Hi-Tech Industrial Development Zone
Nanchang, Jiangxi 330096, People's Republic of China;SHANGHAI JEMINCARE PHARMACEUTICALS CO.,
LTD, 1st Floor, Block 1, No.1118 Halei Road, Pilot Free Trade Zone, Pudong New Area Shanghai 201203,
People's Republic of China ~72: BAOJIAN QI;HAIBING GUO;HONGFU LU;JIANBIAO PENG;WEIQIANG
XING;YONGCONG LV~ 33:CN ~31:202010536221.6 ~32:12/06/2020;33:CN ~31:202011147078.8
~32:23/10/2020;33:CN ~31:202011261665.X ~32:12/11/2020;33:CN ~31:202110485680.0
~32:30/04/2021;33:CN ~31:202110614030.1 ~32:02/06/2021

2025/09968 ~ Complete ~54:SPATTER-FREE LASER COLD CUTTING METHOD ~71:BEIJING ZHONGKANG
ADDITIVE TECHNOLOGY CO., LTD., Room 2206, Building 27, Courtyard 8, Fenggu 4th Road, Yanqing Park of
Zhongguancun Yanqing District, Beijing 102101, People's Republic of China ~72: RUIDA GE;TUO SHI;WEI
NIU;YUAN CAO~ 33:CN ~31:202411137485.9 ~32:19/08/2024

2025/09938 ~ Complete ~54:ELECTRONIC INFORMATION TRANSMISSION ANTENNA ~71:XINYU
UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China
~72: HU, Hao;LI, Rong;LI, Shuigen;PENG, Xiaojun;WANG, Changzhong;ZENG, Xiangming~

2025/09941 ~ Complete ~54:WIRE HARNESS CUTTING MACHINE FOR PRECISION WIRE HARNESS
PRODUCTION ~71:Benxin Electronic Technology (Chongqing) Co., LTD, Songshubao Group, Yunyang County
Industrial Park, Chongqing, 404500, People's Republic of China ~72: Benguo Xu;Dan Chen;Haijun Wang;Hui
Yang;Qi Huang;Shuyun Li;Tao Ming;Tianfeng Tan;Xiaobo Xie;Xulin Yuan~ 33:CN ~31:202511537206.2
~32:27/10/2025

2025/09942 ~ Complete ~54:A CULTIVATED-LAND NON-AGRICULTURALIZATION REMOTE-SENSING
MONITORING METHOD BASED ON MULTI-SCALE DATA SPATIOTEMPORAL ASSIMILATION AND TIME-
SPACE-SPECTRAL FEATURE FUSION ~71:Henan University of Urban Construction, Longxiang Avenue,
Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: Jiang Yongtao;Lu
Chunyang;Qu Qianlong;Wang Limei;Wen Feng;Zhang Caili~

2025/09946 ~ Complete ~54:MODULAR PHOTOVOLTAIC INVERTER ~71:Henan University of Urban
Construction, Longxiang Avenue, Xincheng District, Pingdingshan, People's Republic of China ~72: Guofeng
HE;Jiajia LI;Jinpeng WANG;Junxuan LIAO;Wuyu CHENG;Xiao LIU;Yakai SONG;Yanfei DONG~

2025/09966 ~ Complete ~54:NASAL SPRAY COMPOSITION ~71:GLENMARK SPECIALTY S.A., Place du Port
2, 2000, Neuchatel, Switzerland ~72: ASHOK KATKURWAR;PRAVINKUMAR SHARMA;RAJESH
ANKAM;ULHAS DHUPPAD~ 33:IN ~31:202321078834 ~32:21/11/2023

2025/09937 ~ Complete ~54:BTNL3/8 TARGETING CONSTRUCTS FOR DELIVERY OF PAYLOADS TO THE
GASTROINTESTINAL SYSTEM ~71:GAMMADELTA THERAPEUTICS LIMITED, Westworks 195 Wood Lane,
United Kingdom;KING'S COLLEGE LONDON, Strand London WC2R 2LS, United Kingdom ~72: DART, Robin
John Campbell;HAYDAY, Adrian;LAING, Adam;MEHTA, Raj;MELANDRI, Daisy;NUSSBAUMER,
Oliver;POLYAKOVA, Oxana;VANTOUROUT, Pierre;ZLATAREVA, Iva~ 33:US ~31:62/680,932 ~32:05/06/2018

2025/09962 ~ Complete ~54:POLYMORPHS OF NEK 7 INHIBITORS ~71:Halia Therapeutics, Inc., 3900 North
Traverse Mtn. Blvd., Suite 100, LEHI 84043, UT, USA, United States of America ~72: BEARSS, David
James;FLYNN, Paul;MOLLARD, Alexis Henri Abel~ 33:US ~31:63/504,669 ~32:26/05/2023

2025/09967 ~ Complete ~54:SINGLE POINT ANALYZER ~71:TOMRA SORTING GMBH, Otto-Hahn-Strasse 2-6,
56218, Mülheim-Karlich, Germany ~72: DIRK BALTHASAR~ 33:EP ~31:23171890.9 ~32:05/05/2023

2025/09969 ~ Complete ~54:MOBILE DEVICE FOR KEEPING LARGE LIVESTOCK ~71:ANDRE PRÖBSTING,
Krinkelweg 201, 44267, Dortmund, Germany ~72: ANDRE PRÖBSTING~ 33:DE ~31:10 2023 110 441.1
~32:24/04/2023

2025/09964 ~ Complete ~54:VALVE ~71:HOREN CORTP CO., LTD., 28th Floor, Building A, NO.1520 Gumei
Road, Caohejing Hi-Tech Park, Xuhui District, People's Republic of China ~72: Zhengwei FANG~
33:CN ~31:2023105113804 ~32:08/05/2023

2025/09932 ~ Provisional ~54:MOBILE WATER STORAGE AND TRANSPORT UNIT WITH INTEGRATED
DISPENSING SYSTEM ~71:Mol-T Plastics, Unit F, Lancaster Place, Vincent, South Africa ~72: Thabisa
Moleshe~ 33:ZA ~31:Not Applicable ~32:20/11/2025

2025/09933 ~ Provisional ~54:A SURGICAL DISSECTOR WITH ATRAUMATIC ELASTOMERIC BALL TIP FOR OPEN AND ENDOSCOPIC SURGERY ~71:Juandre Klopper, 26 Richter Avenue, South Africa ~72: Juandre Klopper~

- APPLIED ON 2025/11/24 -

2025/09980 ~ Provisional ~54:COMMUNITY FINANCIAL AGENT NETWORK ~71:Mohale Kitso Mpesi, 4 LEEU LAAN, South Africa ~72: Mohale Kitso Mpesi~

2025/09985 ~ Provisional ~54:A GEOMETRIC ALGEBRA-BASED COGNITIVE ENGINE FOR CONCEPTUAL LEARNING AND RELATIONAL INFERENCE ~71:Benjamin Derrick Spies, 27 Grace Crescent, South Africa ~72: Benjamin Derrick Spies~

2025/10001 ~ Complete ~54:MEASUREMENT METHOD BASED ON MULTI-SENSOR ARRAY AND FOR CROSS-SECTIONAL SEDIMENT DISCHARGE IN OPEN CHANNEL ~71:Tianjin Research Institute for Water Transport Engineering, State Ministry of Transport, No.2618, Tanggu Xingang Road 2, Binhai New Area, Tianjin, 300456, People's Republic of China;Tianjin University, No.92, Weijin Road, Nankai District, Tianjin, 300073, People's Republic of China ~72: LI Xianrui;LIU Leilei;LIU Xianlei;XU Bin;ZHANG Lei;ZHANG Xiaodong;ZHAO Haoxu~ 33:CN ~31:2024105686586 ~32:09/05/2024

2025/10006 ~ Complete ~54:RECYCLING OF CATALYST COATED MEMBRANES ~71:BASF Catalysts Germany GmbH, Seligmannallee 1, HANNOVER 30173, GERMANY, Germany ~72: GRONWALD, Oliver;HAAS, Andreas;PIKHARD, Oliver;ROHDE, Wolfgang;SMITH, Gareth Combemere~ 33:EP ~31:23181510.1 ~32:26/06/2023

2025/10014 ~ Complete ~54:AUTO-INJECTOR AND RELATED METHODS OF USE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: ALFRED MARINO;BRYAN GRYGUS;DANIEL HALBIG;DAVID FARRAGE;JAN NORUP;JEFF MOORE;JEREMY MCNAMARA;JEREMY ODEGARD;ROSS KENYON;STEN NYGAARD;TREVOR LANGLEY;WAYNE PHILLIPS~ 33:US ~31:63/502,883 ~32:17/05/2023

2025/09972 ~ Provisional ~54:PRIVACY-PRESERVING BEHAVIOURAL VERIFICATION LAYER FOR MULTI-TIER CREDIT, IDENTITY, AND ELIGIBILITY SYSTEMS, ~71:Mohale Kitso Mpesi, 4 LEEU LAAN, South Africa ~72: Mohale Kitso Mpesi~

2025/09977 ~ Provisional ~54:UNIFIED BEHAVIOUR-DRIVEN COMMERCE ECOSYSTEM ~71:Mohale Kitso Mpesi, 4 LEEU LAAN, South Africa ~72: Mohale Kitso Mpesi~

2025/09992 ~ Complete ~54:PRE-SUPPORT STRUCTURE FOR PUMPED STORAGE SHAFT ~71:No. Third Engineering Co.,Ltd of CCCC First Highway Engineering Co., Ltd., Baliqiao, Chaoyang District, Beijing, 100024, People's Republic of China ~72: Jiajun ZHU;Jialu ZHU;Xiaoyi LI~

2025/10010 ~ Complete ~54:METHOD FOR BREWING COFFEE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BLUNIER, Jean-Daniel;DUBEI, Mia;EPARS, Yann;FLICK, Jean-Marc;VIKY, Gaylord~ 33:EP ~31:23170896.7 ~32:01/05/2023

2025/10018 ~ Complete ~54:ARMORED ANTI-B7H3 CAR-T CELLS AND USES THEREOF IN CANCER THERAPY ~71:ELPIS BIOPHARMACEUTICALS, 128 Spring Street, Lexington, Massachusetts, 02421, United States of America ~72: KATIE O'CALLAGHAN;KEHAO ZHAO;KEMING ZHANG;NING JIANG;YAN CHEN~ 33:US ~31:63/497,863 ~32:24/04/2023

2025/09979 ~ Provisional ~54:REPAYMENT ACCESS & DISTRIBUTION NETWORK ~71:Mohale Kitso Mpesi, 4 Leeu Laan, South Africa ~72: Mohale Kitso Mpesi~

2025/09982 ~ Provisional ~54:A SYSTEM AND METHOD FOR INTELLIGENT CIVIC INFRASTRUCTURE REPORTING, VERIFICATION, PREDICTION, TRANSPARENCY AND MULTI-STAKEHOLDER MANAGEMENT USING AI, AUGMENTED REALITY, SATELLITE IMAGERY, QR CODES, DIGITAL TWINS AND DISTRIBUTED GOVERNANCE PORTALS ~71:Woof Technologies, 5 Woof Technologies, South Africa ~72: Keyuren~

2025/09984 ~ Provisional ~54:VARIABLE POWER HEATING ELEMENT CONTROLLER ~71:SANDER, John James, 12 Poinsettia Place, 50 Clifton Mews, South Africa;SMIT, Antonie Johannes, 12 Poinsettia Place, 51 Clifton Mews, South Africa ~72: SANDER, John James;SMIT, Antonie Johannes~

2025/09994 ~ Complete ~54:A SAFE AND PORTABLE OBSERVATION DEVICE FOR FLAME TEST EXPERIMENTS ~71:Qingdao Haier School, No. 1, Haier Road, Zhonghan Sub - district, Laoshan District, Qingdao City, Shandong Province, 266100, People's Republic of China ~72: BAO Jiangbei~

2025/09999 ~ Complete ~54:METHOD FOR INDUCING AN IMMUNE RESPONSE ~71:BOEHRINGER INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany ~72: EICHMEYER, Marc;LEITE, Fernando Lopes Leivas;PATTERSON, Abby~ 33:US ~31:63/499,941 ~32:03/05/2023

2025/10015 ~ Complete ~54:AUTO-INJECTOR TRAINING DEVICE AND RELATED METHODS OF USE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591,

United States of America ~72: ASHLEY JOHANNES;JEFF MOORE~ 33:US ~31:63/502,895
~32:17/05/2023;33:US ~31:63/508,717 ~32:16/06/2023
2025/09974 ~ Provisional ~54:SCREAM SOS ~71:Jacqueline Monnakgotla, 11033 MAKABENI STREET, South Africa ~72: Jacqueline Monnakgotla~
2025/09975 ~ Provisional ~54:BEHAVIOURAL CUSTOMER SCORING & AFFORDABILITY INTELLIGENCE ENGINE ~71:Mohale Kitso Mpesi, 4 LEEU LAAN, South Africa ~72: Mohale Kitso Mpesi~
2025/09983 ~ Provisional ~54:CABLE THEFT INTRUDER ALERT SYSTEM (CTIAS) ~71:BOITUMELO Dikane, 1714 Lesenyeha street, South Africa ~72: BOITUMELO Dikane~
2025/09988 ~ Complete ~54:BIM-BASED BUILDING PIPELINE ARRANGEMENT DEVICE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan, People's Republic of China ~72: Jiajia LI;Kewang ZHU;Ning GUO;Qian WANG;Xiao LIU;Yanli LIU~
2025/09990 ~ Complete ~54:OPTICAL INSPECTION SYSTEM ~71:Hunan Chendong Technology Co., Ltd., No. 101, Building 4, Xincheng Science Park, 588 Yuelu West Avenue, High-Tech Industrial Development Zone, Changsha, Hunan, 410000, People's Republic of China ~72: CHEN, Fuyuan;CHENG, Changhui;HUANG, Rong;LI, Qingping;LI, Tianfang;LIU, Feng;LUO, Aizhen;TAN, Dong;XIAO, Qihong~
2025/09997 ~ Complete ~54:TREATING PSORIASIS USING A SMALL MOLECULE INHIBITOR OF TUMOR NECROSIS FACTOR ALPHA ~71:SANOFI, 46 avenue de la Grande Armée, France ~72: CHOW, Ohn;NASSR, Nassr;NGUYEN, Mai Anh;PERRIN, Laurent~ 33:EP ~31:23315116.6 ~32:26/04/2023;33:US ~31:63/539,764 ~32:21/09/2023
2025/10003 ~ Complete ~54:GRAIN MILLING DEVICE ~71:Satake Corporation, 7-2, Sotokanda 4-chome, CHIYODA-KU 1010021, TOKYO, JAPAN, Japan ~72: FURUTANI, Kenta;KAWANO, Hiroyuki~ 33:JP ~31:2023-094253 ~32:07/06/2023
2025/10009 ~ Complete ~54:SEMAGLUTIDE IN MEDICAL THERAPY ~71:Novo Nordisk A/S, Novo Alle 1, BAGSVÆRD 2880, DENMARK, Denmark ~72: BAERES, Florian Martin Moesgaard;HOLST, Anders Gaarsdal;KOSIBOROD, Mikhail;LINDEGAARD, Marie~ 33:EP ~31:23181162.1 ~32:23/06/2023;33:US ~31:63/626,308 ~32:29/01/2024
2025/10012 ~ Complete ~54:METHOD FOR PREPARING 4-AMINOINDAN AND METHOD FOR PREPARING DIHYDROINDENYL-PYRAZOLO[3,4-B]PYRIDINE-AMINE ~71:JW PHARMACEUTICAL CORPORATION, 38 Gwacheon-daero 7-gil, Gwacheon-si, Gyeonggi-do 13840, Republic of Korea ~72: DOOHA YOON;SEIHO CHIN;SUMIN LEE~ 33:KR ~31:10-2023-0054356 ~32:25/04/2023
2025/10019 ~ Complete ~54:INHIBITORS OF JUN N-TERMINAL KINASES (JNK1, JNK2, AND/OR JNK3) AND MITOGEN-ACTIVATED PROTEIN KINASES (MAPK8, MAPK9, AND/OR MAPK10) AND METHODS OF USING SAME ~71:BAYLOR COLLEGE OF MEDICINE, One Baylor Plaza, Houston, Texas, 77030, United States of America ~72: CHANDRA MADASU;DAMIAN YOUNG;DIANA MONSIVAIS;FENG LI;JIAN-YUAN LI;KIRAN SHARMA;KURT BOHREN;MARTIN MATZUK;MURUGESAN PALANIAPPAN;RAMAKRISHNA KOMMAGANI;SRINIVAS CHAMAKURI;STEPHEN PALMER;ZHI TAN~ 33:US ~31:63/461,485 ~32:24/04/2023
2025/10021 ~ Provisional ~54:E-CERTIFICATION PORTAL ~71:MAKHAZA GEORGE MNGUNI, 2001 SECTION A, KWAGGAFONTEIN, South Africa ~72: MAKHAZA GEORGE MNGUNI ~
2025/09987 ~ Provisional ~54:TRUSTED PHYSICAL FEEDBACK ENGINE FOR SAFE AUTONOMOUS MATERIAL-STATE TRANSFORMATION ~71:Microwave Solutions GmbH, Burg Strasse 15, Switzerland ~72: Annelie Stapela;Dayle Wheeler;Prof Dr Florian Turk~
2025/09989 ~ Complete ~54:METHOD FOR CONSTRUCTING THREE-DIMENSIONAL MODEL OF FLUE-CURED TOBACCO BASED ON THREE-DIMENSIONAL POINT CLOUDS ~71:Henan Agricultural University, No. 218 Ping'an Avenue, Zhengdong New District, Zhengzhou, Henan Province, 450046, People's Republic of China ~72: Hanjun ZHOU;Qian ZHANG;Xiefeng YE;Xinyu HU;Yunjie WU~
2025/09995 ~ Complete ~54:LEGACY MANAGEMENT METHOD AND SYSTEM ~71:SWANEPOEL, Susan, 13 Sunrise Avenue, Maroelana, South Africa;VAN ROOY, Wilhelm Louis, 50 Hazelwood Road, Menlo Park, South Africa;VAN ROOY, Willem Adriaan, No 13 Sunrise Avenue, Maroelana, South Africa ~72: SWANEPOEL, Susan;VAN ROOY, Wilhelm Louis;VAN ROOY, Willem Adriaan~ 33:ZA ~31:2024/08915 ~32:25/11/2024
2025/10008 ~ Complete ~54:MOLTEN OXIDE ELECTROLYSIS METHODS AND RELATED SYSTEMS ~71:Boston Electrometallurgical Corporation, 6C Gill Street, WOBURN 01801-1721, MA, USA, United States of America ~72: ASHOUR, Rakan;DE RESENDE, Itamar Dutra Pereira;LAMBOTTE, Guillaume;REZENDE, Breno Costa~ 33:US ~31:63/504,442 ~32:25/05/2023
2025/10013 ~ Complete ~54:METHOD OF PREPARING 4-AMINOINDAN AND METHOD OF PREPARING DIHYDROINDENYL-PYRAZOLO[3,4-B]PYRIDINE-AMINE COMPOUND ~71:JW PHARMACEUTICAL

CORPORATION, 38 Gwacheon-daero 7-gil, Gwacheon-si, Gyeonggi-do 13840, Republic of Korea ~72: DOOHA YOON;SEIHO CHIN;SUMIN LEE~ 33:KR ~31:10-2023-0054357 ~32:25/04/2023
2025/09973 ~ Provisional ~54:ALCOHOL WRISTBAND DETECTOR ~71:Jacqueline Monnakgotla, 11033 MAKABENI STREET, South Africa ~72: Jaqueline Monnakgotla~
2025/09978 ~ Provisional ~54:AN INTEGRATED SYSTEM AND METHOD FOR VIN-BASED SPARE PARTS PROCUREMENT, MECHANIC MATCHING, AND AUTHENTICITY VERIFICATION ~71:Configo (Pty) Ltd, Unit 13 Bethmar Court-26 Hulley Road-Witpoortjie, South Africa ~72: Mapheto Thema~
2025/09993 ~ Complete ~54:DUAL-MODE LAND-AIR MANNED SPRAYING VEHICLE PESTICIDE APPLICATION METHOD, SYSTEM, AND VEHICLE ~71:Shiguo Zhang, Room 301, Unit 4, Building B3, Jiahuiyuan Community, Huanghe Road, Tongshan Town, Tongshan District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Shiguo Zhang~
2025/10004 ~ Complete ~54:PHARMACEUTICAL FORMULATIONS OF AN AMYLIN RECEPTOR AGONIST AND A GLP-1 RECEPTOR AGONIST COMPRISING A CYCLODEXTRIN ~71:Novo Nordisk A/S, Novo Alle 1, BAGSVÆRD 2880, DENMARK, Denmark ~72: CHRISTOFFERSEN, Stig;HANSEN, Rosa Rebecca Erritzøe;KJELDSEN, Benjamin Troest~ 33:EP ~31:23179381.1 ~32:15/06/2023;33:EP ~31:23180629.0 ~32:21/06/2023
2025/10017 ~ Complete ~54:METHOD OF ASSEMBLING A MEDICAL DEVICE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: BRYAN GRYGUS;JIM FEDOR;KEVIN MOMENI;TANYA MAGANA~ 33:US ~31:63/502,889 ~32:17/05/2023;33:US ~31:63/508,709 ~32:16/06/2023;33:US ~31:63/570,138 ~32:26/03/2024
2025/09976 ~ Provisional ~54:GEO-CREDIT INTELLIGENCE AND RESOURCE ALLOCATION ENGINE ~71:Mohale Kitso Mpesi, 4 LEEU LAAN, South Africa ~72: Mohale Kitso Mpesi~
2025/09986 ~ Provisional ~54:PHYSICAL AI: AUTONOMOUS ADAPTIVE ELECTROMAGNETIC CONTROL SYSTEMS FOR SECURE INTELLIGENT INTERACTION WITH MATTER ~71:Microwave Solutions GmbH, Burg strasse 15, Switzerland ~72: Annelie Stapela;Prof Dr Florian Turk~
2025/09991 ~ Complete ~54:MULTI-LAYER ECOLOGICAL SLOPE PROTECTION STRUCTURE FOR RIVER CHANNELS ~71:Xi'an University of Architecture and Technology, No.13 Yanta Road, Beilin District, Xi'an City, Shaanxi, 710055, People's Republic of China ~72: Jiao Linxi;Zhang Zhonghua~
2025/09998 ~ Complete ~54:IMMUNOGENIC COMPOSITION USEFUL FOR SELF-ADMINISTRATION BY PIGS ~71:BOEHRINGER INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany ~72: EICHMEYER, Marc;LEITE, Fernando Lopes Leivas~ 33:US ~31:63/499,937 ~32:03/05/2023
2025/10005 ~ Complete ~54:MARIBAVIR COMPOSITIONS AND USES THEREOF ~71:Takeda Pharmaceutical Company Limited, 1-1 Doshomachi 4-chome, Chuo-ku Osaka-shi, OSAKA 051-0045, JAPAN, Japan ~72: SUEDA, Katsuhiko~ 33:US ~31:63/470,161 ~32:31/05/2023;33:US ~31:63/525,228 ~32:06/07/2023;33:US ~31:63/633,277 ~32:12/04/2024
2025/10011 ~ Complete ~54:HOMEOPATHIC MIXTURE FOR RELIEVING GENERAL FATIGUE SYMPTOMS AND CANCER TREATMENT RELATED FATIGUE SYMPTOMS ~71:BEAURA FOR PARA PHARMACEUTICAL PRODUCTS TRADING L.L.C, Sheikh Zayed Road, P O Box 5610,, United Arab Emirates ~72: FREED, Yakove~ 33:US ~31:18/207,184 ~32:08/06/2023
2025/09981 ~ Provisional ~54:MICRO ROUND-UP REPAYMENT ENGINE ~71:Mohale Kitso Mpesi, 4 Leeu Laan, South Africa ~72: Mohale Kitso Mpesi~
2025/09996 ~ Complete ~54:SUPERCAPACITOR CONTROL CIRCUIT AND METHOD FOR INTELLIGENTLY IDENTIFYING STARTING MODE OF VEHICLE ~71:SHENZHEN LEAGEND OPTOELECTRONICS CO., LTD., Room 401 and 402, Building 26, No. 1301, Guanguang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen, Guangdong 518110, People's Republic of China ~72: JUNHUA ZOU;SHUGANG QIN~ 33:CN ~31:202411687198.5 ~32:25/11/2024
2025/10000 ~ Complete ~54:IN VIVO IMAGING OF AN ALS BIOMARKER AND MEANS THEREFOR ~71:AL-S PHARMA AG, Wagistrasse 18, Switzerland ~72: AIT-MOHAND, Samia;GUÉRIN, Brigitte;MAIER, Marcel;SALZMANN, Michael;TREMBLAY, Sébastien~ 33:EP ~31:23169614.7 ~32:24/04/2023;33:EP ~31:23187354.8 ~32:24/07/2023
2025/10002 ~ Complete ~54:SIRNA FOR TARGETED REGULATION OF PCSK9 GENE EXPRESSION, AND USE THEREOF ~71:Hangzhou Tianlong Pharmaceutical Co., Ltd., No. 430, Jianding Road, Shangcheng District, HANGZHOU 310009, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: HUANG, Dawei;HUANG, Zeao;LIN, Fang;PANG, Xue;SONG, Gengshen;TIAN, Zhikang;WU, Yucheng;YANG, Shuo;YAO, Peng;YU, Xiaowen~ 33:CN ~31:202311463375.7 ~32:06/11/2023

2025/10007 ~ Complete ~54:WRN INHIBITORS ~71:Nimbus Wadjet, Inc., 22 Boston Wharf Road, 9th Floor, BOSTON 02210, MA, USA, United States of America ~72: BARTELS, Florian;CARAVELLA, Justin;DOW, Robert Lee;GENUNG, Nathan E.;LEIT DE MORADEI, Silvana Marcel;LI, Derun;SITNIKOV, Nikolay;WEST, Angela V. ~33:US ~31:63/507,014 ~32:08/06/2023;33:US ~31:63/519,746 ~32:15/08/2023;33:US ~31:63/586,952 ~32:29/09/2023;33:US ~31:63/613,647 ~32:21/12/2023;33:US ~31:63/566,038 ~32:15/03/2024;33:US ~31:63/639,457 ~32:26/04/2024

2025/10016 ~ Complete ~54:MICROALGA EXTRACTS FOR INHIBITING NITRIFICATION AND/OR DENITRIFICATION PROCESSES IN SOIL ~71:AGRO INNOVATION INTERNATIONAL, 18 Avenue, Franklin Roosevelt, 35400, Saint-Malo, France;INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, 147 rue de l'Université, 75007, Paris, France;INSTITUT NATIONAL SUPERIEUR DES SCIENCES AGRONOMIQUES DE L'ALIMENTATION ET DE L'ENVIRONNEMENT, 26 Boulevard Doc Petitjean, 21000, Dijon, France;UNIVERSITE DIJON BOURGOGNE, Campus Esplanade Erasme Maison De L'universite, 21000, Dijon, France ~72: ARKOUN MUSTAPHA;CATHERINE HENAULT;ROZENN TREPOS~ 33:FR ~31:FR2304740 ~32:12/05/2023

2025/10077 ~ Provisional ~54:PHOTOACTIVE STATE-TRANSITION SYSTEM AND METHOD FOR LIGHT DETECTION AND IMAGING ~71:Thabiso Mike Letlala, 2404 Phase 2, South Africa ~72: Thabiso Mike Letlala~ - APPLIED ON 2025/11/25 -

2025/10026 ~ Provisional ~54:BUDDYMETER CAP – METERED-DOSE GRAVITY INSERT SYSTEM ~71:Buddy Hamedl, 5 scone palce, South Africa ~72: Buddy Hamedl~

2025/10030 ~ Provisional ~54:HERBAL COMPOSITION FOR DUAL-ACTION TREATMENT OF HIV ~71:DURBAN UNIVERSITY OF TECHNOLOGY, Mansfield Road, Berea, Durban 4001, SOUTH AFRICA, South Africa ~72: SAHEED, Sabiu;SHODE, Francis Oluwole~

2025/10033 ~ Provisional ~54:ADAPTIVE BEHAVIOUR SCORING ARTIFICIAL INTELLIGENCE TUTORING SYSTEM ~71:Mohale Kitso Mpesi, 4 LEEU LAAN, South Africa ~72: Mohale Kitso Mpesi~

2025/10034 ~ Complete ~54:MICROSATELLITE GENETIC MARKER SET OF CRICETULUS GRISEUS AND SCREENING METHOD AND APPLICATION THEREOF ~71:Shanxi Medical University, No. 56, Xinjian South Road, Taiyuan City, Shanxi Province, 030000, People's Republic of China ~72: GAO Li;GENG Jianing;HU Songnian;LIU Tianfu;SONG Guohua;YUE Wenbin~

2025/10045 ~ Complete ~54:A METHOD AND SYSTEM TO PERFORM NANOPARTICLE-ASSISTED LOW SALINITY WATERFLOODING FOR ENHANCED OIL RECOVERY ~71:Dr. Nayan Medhi, Assistant Professor, Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Dr. Partha Protim Borthakur, Assistant Professor, Department of Mechanical Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Mr. Sanjeev Thakur, Chief Engineer-Projects, Oil India Limited (OIL), and Ph.D. Research Scholar in the Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Mr. Uttaron Goswami, Ph.D. Research Scholar, Department of Petroleum Technology, Dibrugarh University, Dibrugarh, Assam - 786004, India ~72: Dr. Nayan Medhi;Dr. Partha Protim Borthakur;Mr. Sanjeev Thakur;Mr. Uttaron Goswami~

2025/10065 ~ Complete ~54:MIXED MARTIAL ARTS GLOVE ~71:Zuffa, LLC, 6650 South Torrey Pines Drive, LAS VEGAS 89118, NV, USA, United States of America ~72: LANPHEAR, Noah;NEUBAUER, Jason;SAVAGE, Ryan~ 33:US ~31:63/509,783 ~32:23/06/2023;33:US ~31:18/609,877 ~32:19/03/2024

2025/10073 ~ Provisional ~54:FLEXI PICK HYBRID ~71:SAKHILE HOPEWELL NTULI, 1351 EXT 8, EMPUMELWENI, South Africa ~72: SAKHILE HOPEWELL NTULI ~

2025/10520 ~ Provisional ~54:PUMP MIXER ~71:Ibongwe Funde, 89 Cawood Street, South Africa ~72: Ibongwe Funde~

2025/10068 ~ Complete ~54:CONSTRUCTION PLATFORM FOR CYLINDRICAL BRIDGE PIER ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9, Chunxiu Road, Dongcheng District, Beijing 100027, People's Republic of China ~72: XINRUI XIA~ 33:CN ~31:202410993638.3 ~32:24/07/2024

2025/10069 ~ Complete ~54:CHANNEL DREDGING DEVICE AND CONSTRUCTION METHOD ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9, Chunxiu Road, Dongcheng District, Beijing 100027, People's Republic of China ~72: CHONG LI~ 33:CN ~31:202411783520.4 ~32:06/12/2024

2025/10040 ~ Complete ~54:BETA-ALKOXY KETONE HAVING LONG-LASTING FRAGRANCE AND PREPARATION METHOD AND USE THEREOF ~71:Guangzhou Flower Flavours Fragrances Co., Ltd, No. 1, Dongkeng Street, North Dongfeng East Road, Baiyun Avenue, Baiyun District, Guangzhou City, Guangdong Province, 510442, People's Republic of China ~72: LAI, Guoyin;LI, Xiangping;LUO, Chunning;WANG, Yao;WU, Xiu;XIAO, Minfang;XIE, Baojun;ZOU, Haiming~ 33:CN ~31:202510377740.5 ~32:27/03/2025

2025/10044 ~ Complete ~54:AN IOT-ENABLED AUTOMATED PET FEEDER WITH PRECISION DISPENSING AND MONITORING SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAUDHARI, Prasad Bhata;CHAVAN, Diksha Kalpesh;CHINCHOLE, Shivprasad Hanumant;DESHPANDE, Akshata Ramchandra;SAYED, Huda Shakil;SURYAWANSHI, Amol Shivajirao~

2025/10046 ~ Complete ~54:AN IOT-DRIVEN FIRE DETECTION AND AUTOMATED EMERGENCY RESPONSE SYSTEM WITH MULTI-AGENT AI COORDINATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BANAIT, Satish Shankarrao;MAHALLE, Parikshit N.;PATIL, Rajkumar~

2025/10049 ~ Complete ~54:AN IOT-BASED CLUSTER SYSTEM FOR TWO-WHEELERS TO ENHANCE SAFETY, PERFORMANCE, AND NAVIGATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: GHORPADE, Purna Pravin;SURYAWANSHI, Amol Shivajirao;WAGHMODE, Santosh Tanaji~

2025/10055 ~ Complete ~54:A HYBRID INTEGRATED AQUAPONIC-AEROPONIC FARMING SYSTEM WITH ADAPTIVE NUTRIENT CONTROL ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHORGE, Sidharth Bhagwan;PUSEGAONKAR, Amey;RAJKUMAR, Rohan;REVANKAE, Vrushabh;WYAWAHARE, Medha Vishwanath~

2025/10057 ~ Complete ~54:DOSING AND TREATMENT OF IMMUNE-MEDIATED DISEASES AND BIOMARKERS ASSOCIATED WITH IMMUNE-MEDIATED DISEASES ~71:KYMAB LIMITED, The Bennet Building (B930), Babraham Research Campus, United Kingdom ~72: BERNIGAUD, Charlotte;DAVEY, Sonya;HURBIN, Fabrice;O'MALLEY, John;RYNKIEWICZ, Natalie;SCHNEIDER, Johannes-Christoph;STEBEGG-WAGNER, Marisa;TIRABOSCHI, Gilles;YEN, Karl~ 33:US ~31:63/521,985
~32:20/06/2023;33:US ~31:63/522,039 ~32:20/06/2023;33:US ~31:63/522,098
~32:20/06/2023;33:US ~31:63/522,784 ~32:23/06/2023;33:US ~31:63/522,822
~32:23/06/2023;33:US ~31:63/523,284 ~32:26/06/2023

2025/10063 ~ Complete ~54:BEER WITH IMPROVED FLAVOUR STABILITY ~71:Heineken Supply Chain B.V., Burgemeester Smeetsweg 1, ZOETERWOUDE 2382 PH, THE NETHERLANDS, Netherlands ~72: GERNAT, Deborah Casandra~ 33:EP ~31:23175823.6 ~32:26/05/2023

2025/10064 ~ Complete ~54:NECTIN-4 ANTIBODIES AND ANTIBODY-DRUG CONJUGATES ~71:Eli Lilly and Company, Lilly Corporate Centre, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BOYLES, Jeffrey Streetman;DRISCOLL, Kyla Elizabeth;DURAMAD, Omar;GUO, Qianxu;HOLMGAARD, Rikke Baek;LINDQUIST, Kevin Charles;PARK, Joshua Inshik;SAGAR, Divya;SRINIVASAN, Mohan;VERDINO, Petra;ZHOU, Jieyu~ 33:US ~31:63/509,077 ~32:20/06/2023

2025/10071 ~ Complete ~54:POLYPEPTIDE AND USE THEREOF ~71:BIOCELLS (BEIJING) BIOTECH CO., LTD., 9 Floor, No. 3, Building B, No. 8 Haiying Road, Fengtai District, Beijing, 100070, People's Republic of China ~72: HUAMIN HAN;QI JI;SILIANG FENG~ 33:CN ~31:202310461975.3
~32:26/04/2023;33:CN ~31:202311825930.6 ~32:27/12/2023

2025/10074 ~ Provisional ~54:METHOD FOR STABILISING AND VALORISING WINE LEES VIA ACIDIFICATION AND LOW-TEMPERATURE HYDRODYNAMIC CAVITATION ~71:ABEL DANIEL PETRUS VAN DER MERWE, ALPINE WAY 329, LYNNWOOD, GAUTENG, South Africa ~72: ABEL DANIEL PETRUS VAN DER MERWE ~

2025/10032 ~ Provisional ~54:FSI ADVANCED MODEL ~71:Wayne Erasmus H, 195 10th Avenue, South Africa ~72: Wayne Erasmus H~

2025/10037 ~ Complete ~54:A JOINT ASSEMBLY FOR CONNECTING SPLIT PIPES ~71:UNIQUE VENTILATION & SUPPORT SYSTEMS (PTY) LTD, 1 Resnick Street, Fectoria, South Africa ~72: VAN DER MERWE, Jacob Jacobus~ 33:NL ~31:2039187 ~32:28/11/2024

2025/10042 ~ Complete ~54:TENNIS TRAINING DEVICE ~71:Shandong University of Finance and Economics, No. 7366, Second Ring East Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: ZHANG Xuefei~

2025/10050 ~ Complete ~54:MODEL DISPLAY DEVICE FOR MATHEMATICAL MODELING ~71:Jiangsu Vocational Institute of Architectural Technology, No. 26 Xueyuan Road, Quanshan District, Xuzhou City, Jiangsu Province, People's Republic of China ~72: Guo Jian;Zhang Xuemei~

2025/10056 ~ Complete ~54:AN OFFLINE VOICE-ACTIVATED MOBILE EMERGENCY SOS COMMUNICATION SYSTEM WITH HYBRID LOCATION RETRIEVAL AND SMS ALERT TRANSMISSION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE,

MAHARASHTRA, 411037, India ~72: BHOITE, Sonali;GANGWAL, Rushal;MAHALLE, Parikshit;MANGOLI, Shriniketan;MIRAJKAR, Riddhi;PATIL, Harshvardhan;SHARMA, Aamani;SHINDE, Gitanjali~
2025/10062 ~ Complete ~54:CELL-FREE LIPOASPIRATE-DERIVED PREPARATION, COMPOSITIONS COMPRISING THE PREPARATION AND USES THEREOF ~71:Linio Biotech Ltd, Tehtaankatu 27-29 A 12, HELSINKI 00150, FINLAND, Finland ~72: HAUTANEN, Veera;REIJONSAARI, Karita;SANMARK, Enni;UUSMIES, Jertta-Riina;YLIKOMI, Timo~ 33:EP ~31:23176265.9 ~32:31/05/2023;33:US ~31:63/505,069 ~32:31/05/2023
2025/10024 ~ Provisional ~54:CABLE THEFT-LIMITING DEVICE ~71:WOLMARANS, Clint, Unit 4 Waxahachie, 17 Elliot Street, Noordheuwel, KRUGERSDORP 1739, Gauteng Province, SOUTH AFRICA, South Africa ~72: WOLMARANS, Clint~
2025/10028 ~ Provisional ~54:STRUCTURAL ELEMENT AND SYSTEM ~71:MARTIN HERMAN VAN WYK, 41 BLANDFORD VILLAS, 164 BLANDFORD ROAD, NORTHRIDING, South Africa ~72: MARTIN HERMAN VAN WYK~
2025/10039 ~ Complete ~54:OPTIMAL SCHEDULING METHOD FOR MICRO-GRID BASED ON DISTRIBUTED BEE FORAGING ALGORITHM ~71:INSTITUTE OF URBAN SAFETY AND ENVIRONMENTAL SCIENCE, BEIJING ACADEMY OF SCIENCE AND TECHNOLOGY, 55 Taoranting Road, People's Republic of China ~72: GUO, Hongzhi;SHAO, Jinwen;WANG, Ai;XIE, Peng;ZHAO, Jiamei~ 33:CN ~31:2024117048196 ~32:26/11/2024
2025/10047 ~ Complete ~54:AN AI-POWERED ASSISTIVE COMMUNICATION AND LEARNING SYSTEM FOR INDIVIDUALS WITH DOWN SYNDROME ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHILLAL, Tanvi;JAIN, Himanshi;MAHALLE, Parikshit;MANDHARE, Prajakta;MIRAJKAR, Riddhi;SHEVATE, Anushka;SHINDE, Gitanjali~
2025/10054 ~ Complete ~54:AN AUTOMATED PARKING MANAGEMENT SYSTEM UTILIZING COMPUTER VISION, EDGE COMPUTING AND CROWDSOURCED DATA ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BOHITE, Sonali;CHAVAN, Durvesh;KALE, Nirant;MIRAJKAR, Riddhi;NEMADE, Rohan;WANOLE, Tejas~
2025/10067 ~ Complete ~54:LONG-ACTING COLLOIDAL PHARMACEUTICAL COMPOSITIONS OF INTEGRASE STRAND TRANSFER INHIBITORS AND RELATED METHODS ~71:University of Washington, 1100 NE Campus Parkway, Suite 200, SEATTLE 98195, WA, USA, United States of America ~72: HO, Rodney J.Y.~ 33:US ~31:63/498,461 ~32:26/04/2023
2025/10029 ~ Provisional ~54:A NOVEL SLAG VALORISATION AND MODIFICATION PROCESS ~71:METIX (PROPRIETARY) LIMITED, 204 Rivonia Road, Morningside, South Africa ~72: KALENGA, Moise;KLEYNHANS, Ernst Lodewyk Johannes;LOUW, Stephan Christiaan;TERBLANCHE, Gerhardus Scholtz~
2025/10070 ~ Complete ~54:CONTROLLING ACCESS TO A RESTRICTED PHYSICAL SPACE ~71:ABLOY OY, Wahlforssinkatu 20, Joensuu, 80100, Finland ~72: MARKO OVASKA~ 33:SE ~31:2350506-8 ~32:27/04/2023
2025/10072 ~ Complete ~54:4'-HALOGEN CONTAINING NUCLEOTIDE AND NUCLEOSIDE THERAPEUTIC COMPOSITIONS AND USES RELATED THERETO ~71:EMORY UNIVERSITY, 1599 Clifton Road, NE 4th Floor, Atlanta, Georgia, 30322, United States of America ~72: DAMIEN KUIPER;DAVID PERRYMAN;GEORGE R PAINTER;MICHAEL G NATCHUS;SHULI MAO~ 33:US ~31:63/500,416 ~32:05/05/2023;33:US ~31:63/534,748 ~32:25/08/2023;33:US ~31:63/588,255 ~32:05/10/2023;33:US ~31:63/571,795 ~32:29/03/2024
2025/10075 ~ Provisional ~54:AUTONOMOUS BLOCKCHAIN TRANSACTION FEE PROVISIONING USING SECURE ELEMENT TECHNOLOGY ~71:FRANCOIS PIERRE JOUBERT, 521,20th Ave, Rietfontein, Pretoria,, South Africa ~72: FRANCOIS PIERRE JOUBERT~
2025/10023 ~ Provisional ~54:A METHOD AND SYSTEM FOR ENFORCING POLICY-CONSTRAINED EXECUTION OF A DIGITAL ACTION ~71:NSUKUZONKE, Valentine Thandoluhle, 21 Eldo Gardens, Eldo Lakes East Estate, Campbell Rd, Glen Lauriston, CENTURION 0185, Gauteng Province, SOUTH AFRICA, South Africa ~72: NSUKUZONKE, Valentine Thandoluhle~
2025/10025 ~ Provisional ~54:A MOUNTING DEVICE ~71:THE TRUSTEES FOR THE TIME BEING OF THE STEGMANN FAMILY TRUST (IT2256/97), P O BOX 101, KYALAMI ESTATE, 1684, SOUTH AFRICA, South Africa ~72: STEGMANN, Daryl, Roger;THOMAS, Matthew, Shane~
2025/10027 ~ Provisional ~54:BUDDYMETER CAP – METERED-DOSE GRAVITY INSERT SYSTEM ~71:Buddy Hamedl, 5 scone palce, South Africa ~72: Buddy Hamedl~

2025/10031 ~ Provisional ~54:AN ELECTROCHEMICAL SENSING DEVICE AND USE FOR DETECTING ENDOCRINE DISRUPTING CHEMICALS ~71:UNIVERSITY OF SOUTH AFRICA, Preller Street Muckleneuk, Pretoria, South Africa ~72: MARANG LUCIA MAKINITA;USISIPHO FELENI~

2025/10035 ~ Complete ~54:TAILINGS SLURRY FILLING RETAINING WALL IN METAL MINE GOAF ~71:Beijing Baodi Yilian Geological Exploration Engineering Technology Co., Ltd., -2-9, 2nd Floor, Building 2, No. 23, Huangsi Street, Xicheng District, Beijing City, 100032, People's Republic of China;Henan Third Geological Exploration Institute Co., Ltd., No. 67, Zhengkai Avenue, Zhengdong New District, Zhengzhou City, Henan Province, 451464, People's Republic of China;Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China;Luanchuan Longyu Molybdenum Industry Co., Ltd., Intersection of Mudou Road and Binhe Road, Luanchuan County, Luoyang City, Henan Province, 471599, People's Republic of China;Luoyang Jinjian Engineering Quality Testing Center Co., Ltd., No.16 Courtyard, Jiudu Road, Xigong District, Luoyang City, Henan Province, 471099, People's Republic of China;Luoyang Longmen Tourism Group Co., Ltd., Rooms 301-304, 3rd Floor, Longmen Cultural Relics Protection Center, East of Longmen North Bridge, Luolong District, Luoyang City, Henan Province, 471023, People's Republic of China;Mineral Resources Exploration Center of Henan Geological Bureau, Dikuang Building, No. 28, Jinshui Road, Jinshui District, Zhengzhou City, Henan Province, 450014, People's Republic of China;Zhengzhou Road And Bridge Construction Investment Group Co.,Ltd, 13th Floor, Building 1, No. 55, Lianhua Street, Zhengzhou High-Tech Industrial Development Zone, Zhengzhou City, Henan Province, 450001, People's Republic of China ~72: CHEN, Peng;CUI, Wenbo;GUO, Guo;JIA, Haipeng;JIN, Beibei;LI, Jiadong;LI, Yuanxin;LIANG, Yunfei;SONG, Yali;TANG, Guoqiang;ZHANG, Chuandong~

2025/10036 ~ Complete ~54:COMBINED ACUPUNCTURE AND MASSAGE PHYSIOTHERAPY APPARATUS ~71:Nanjing University of Chinese Medicine, No. 282 Hanzhong Road, Nanjing, Jiangsu Province, People's Republic of China ~72: Guangxia NI;Jinze XI;Qi LI;Xiaoyun DAN;Xinyi YANG;Zheng HUANG~

2025/10038 ~ Complete ~54:OPTIMAL SCHEDULING METHOD FOR MICRO-GRID BASED ON MULTI-OBJECTIVE BEE FORAGING ALGORITHM ~71:INSTITUTE OF URBAN SAFETY AND ENVIRONMENTAL SCIENCE, BEIJING ACADEMY OF SCIENCE AND TECHNOLOGY, 55 Taoranting Road, People's Republic of China ~72: GUO, Hongzhi;SHAO, Jinwen;WANG, Ai;XIE, Peng;ZHAO, Jiamei~ 33:CN ~31:2024117048213 ~32:26/11/2024

2025/10041 ~ Complete ~54:FLAME-RETARDANT POLYMER MATERIAL AND PREPARATION METHOD THEREOF ~71:HAINAN NORMAL UNIVERSITY, No.99 Longkun South Road, Haikou City, Hainan Province, 571158, People's Republic of China ~72: NIU Yanyan;WANG Lisi;ZHANG Dan;ZHOU Juan~

2025/10043 ~ Complete ~54:A SYSTEM AND METHOD FOR MONITORING LOAD USAGE ON AN ELECTRICAL TRANSFORMER ~71:ESKOM HOLDINGS SOC LIMITED, Megawatt Park, Maxwell Drive, Sunninghill, South Africa ~72: DE KLERK, Nicolaas~ 33:NL ~31:2039160 ~32:25/11/2024

2025/10048 ~ Complete ~54:A BLOCKCHAIN-SECURED GMO CROP VERIFICATION SYSTEM USING AI-DRIVEN DUAL-SPECTRAL SCANNING AND CRYPTOGRAPHIC SIGNING ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: DESHPANDE, Leena Amit;MALI, Aadit Pravin;MALI, Manisha Pravin;MARAL, Vikas Balasaheb;PARDESHI, Anushka Rahul;RATHI, Snehal Rahul~

2025/10051 ~ Complete ~54:A NIGHT-TIME VISIBILITY SYSTEM FOR ELECTRICAL OVERHEAD TRANSMISSION WIRES TO PREVENT ACCIDENTS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: JAGTAP, Tejas Santosh;JOSHI, Hrushikesh;KANJALKAR, Jyoti;KANJALKAR, Pramod Madhavrao;LENDE, Divesh Balu;MASAL, Ganesh Uttam;MHETRE, Atharva Rajesh;SAWANT, Shweta Dattatray;SHEVADE, Sahil Deepak~

2025/10052 ~ Complete ~54:A MULTI-MODAL AI BASED INTELLIGENT LOST-AND-FOUND ITEM RETRIEVAL AND VERIFICATION SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHIMANPALLEWAR, Ratnmala;BHOITE, Sonali;DHANVATE, Darshan;KOLTE, Soham;MIRAJKAR, Riddhi;TIWAREKAR, Vighnesh~

2025/10058 ~ Complete ~54:COMPUTER-IMPLEMENTED METHOD FOR ESTIMATING A RAIL TEMPERATURE OF THE RAILS OF A TRACK SECTION USING A TRACK CIRCUIT ~71:KB SIGNALING INC., 2712 South Dillingham Road, Grain Valley, United States of America ~72: DI SANTI, Eduardo;FRIES, Jeffrey;LOPEZ, Francisco;MIJATOVIC, Nenad~

2025/10060 ~ Complete ~54:METHANOL SYNTHESIS PROCESS ~71:CASALE SA, Via Giulio Pocobelli 6, Switzerland ~72: MOREO, Pietro;MUSCIONICO, Isabella;POLETTI, Riccardo~ 33:EP ~31:23182091.1 ~32:28/06/2023

2025/10061 ~ Complete ~54:COLD PLUNGE WATER GENERATION ASSEMBLY FOR A TUB ENCLOSURE WITH HEATING CAPABILITY ~71:MUDD, Riley, 4110 Helena St. NE, Saint Petersburg, United States of America ~72: MUDD, Riley~ 33:US ~31:63/468,715 ~32:24/05/2023

2025/10053 ~ Complete ~54:A MULTILINGUAL TRANSFORMER-ENHANCED KEYWORD SPOTTING SYSTEM USING HYBRID CNN-TRANSFORMER ARCHITECTURE ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: GIRAME, Mrunmai Manoj;JAGTAP, Tanishka Chandrasen;KUNEKAR, Pankaj;MALODE, Swami;PATIL, Himanshu;PATIL, Hiteshi~

2025/10059 ~ Complete ~54:LIQUID LEVEL METER STRUCTURE ~71:CRRC ZHUZHOU ELECTRIC CO., LTD., Tianxin High-tech Industrial Park, Shifeng District, People's Republic of China ~72: HUANG, Yichong;LIU, Hui;TAN, Wenjun;TAO, Ze;WU, Yong~ 33:CN ~31:202311750354.3 ~32:19/12/2023

2025/10066 ~ Complete ~54:AUTONOMOUS MINING SYSTEM ~71:Fortescue Ltd, Level 2, 87 Adelaide Terrace, EAST PERTH 6004, WESTERN AUSTRALIA, AUSTRALIA, Australia ~72: MORAN, Sam;WIESKE, Shane~ 33:AU ~31:2023901654 ~32:26/05/2023

2025/10083 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING GLUCOPYRANOSYL DIPHENYLMETHANE DERIVATIVES, PHARMACEUTICAL DOSAGE FORM THEREOF, PROCESS FOR THEIR PREPARATION AND USES THEREOF FOR IMPROVED GLYCEMIC CONTROL IN A PATIENT ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: BARTA, Albert;EISENREICH, Wolfram;LADYZHYNSKY, Nadia, S.;LI, Danping;MACHA, Sreeraj;SCHULTZ, Leon;WANG, Zeren~ 33:US ~31:61/152,317 ~32:13/02/2009;33:US ~31:61/254,033 ~32:22/10/2009

- APPLIED ON 2025/11/26 -

2025/10120 ~ Complete ~54:POWDERY MILDEW RESISTANCE GENE IN CARROT ~71:BEJO ZADEN B.V., Trambaan 1, 1749, CZ Warmenhuizen, Netherlands ~72: ADRIANA DORIEN HAARSMA;ALBERTUS JOHANNES MARIA SCHRIJVER;DIANA KATSCHNIG;MARCEL ADRIAANSE;PETER ARNOLDUS DEKKER;RUDIE JOHANNES THEODORUS STEENTJES;WILLEM ARIE ZWAAN~

2025/10133 ~ Complete ~54:CHEMICAL PROCESS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BACCALINI, Alessio;COUSSANES, Guilhem;CRETIGNIER, Mayeul;HEMELAERE, Rémy;MCLAUGHLIN, Martin~ 33:EP ~31:23184841.7 ~32:11/07/2023

2025/10096 ~ Complete ~54:ONLINE PLATFORM FOR ORDERING NUTRITIONAL SUPPLEMENTS ~71:RIPPLEEFFECT (PTY) LTD., 111 De Kaap Place, Lanzerac Complex, LONEHILL, Johannesburg 2062, Gauteng, SOUTH AFRICA, South Africa ~72: NIJS, Alexandre Laurent~ 33:ZA ~31:2024/07744 ~32:14/10/2024

2025/10089 ~ Complete ~54:TEST DEVICE FOR SIMULATING STRATUM DEFORMATION CAUSED BY SUBWAY SHIELD TUNNEL CONSTRUCTION ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: LI Guanpeng;TIAN Ye;WANG Yi;YOU Peibo;ZHENG Chao~

2025/10100 ~ Complete ~54:METHODS AND DEVICES FOR OBTAINING SILICON PHOTOMULTIPLIER DATA ~71:MESO SCALE TECHNOLOGIES, LLC., 1601 Research Boulevard, Rockville, Maryland, 20850, United States of America ~72: MANISH KOCHAR~ 33:US ~31:63/336,822 ~32:29/04/2022

2025/10106 ~ Complete ~54:PERACID BOOSTER COMPOSITIONS AND METHODS OF USING SAME ~71:STERILEX, LLC, 111 LAKE FRONT DRIVE, HUNT VALLEY, MD 21030, USA, United States of America ~72: CUMMINGS, Walter, Daniel;ROSENBERG, Gregory~ 33:US ~31:63/463,474 ~32:02/05/2023

2025/10113 ~ Complete ~54:ROADWAY EXPANSION JOINT DEVICE COMPRISING A ROD SUPPORTING A FLEXIBLE ELEMENT PLACED BETWEEN TWO JOINT PROFILES ~71:KARLGEIR GRUPPEN AB, Högalidsgatan 46A, Sweden ~72: ALMSTRÖM, Olof~ 33:SE ~31:2330253-2 ~32:02/06/2023

2025/10119 ~ Complete ~54:GLASS BATCH INLET AND CLEANING DEVICE ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: ROBERT KUHLMAN;SHANE RASHLEY~ 33:US ~31:63/507,589 ~32:12/06/2023;33:US ~31:18/464,358 ~32:11/09/2023

2025/10194 ~ Provisional ~54:EDGE AI-SECURED TRANSACTION AUTHORIZATION SYSTEM WILL ISOLATED CRYPTOGRAPHIC KEY MANAGEMENT ~71:FRANCOIS PIERRE JOUBERT, 521,20th Ave, Rietfontein, Pretoria,, South Africa ~72: FRANCOIS PIERRE JOUBERT~

2025/10092 ~ Complete ~54:METHOD FOR PREPARING CATHODE MATERIALS OF PROTON CERAMIC ELECTROCHEMICAL CELLS VIA COMBINED TECHNOLOGY AND APPLICATION THEREOF ~71:Kunming University of Science and Technology, No. 253, Xuefu Road, Wuhua District, Kunming City, Yunnan Province, 650000, People's Republic of China;XIAMEN UNIVERSITY, No. 422 Siming South Road, Xiamen City, Fujian

Province, 361000, People's Republic of China ~72: LI Jun;LI Xue;LIU Jinpeng;QIN Shaojie;WU Xianrui;ZHANG Peng;ZHANG Yiyong;ZHU Ziyi~
 2025/10099 ~ Complete ~54:ANTI-RSV MONOCLONAL ANTIBODY FORMULATION ~71:MedImmune Limited, Milstein Building, Granta Park, CAMBRIDGE CB21 6GH, UNITED KINGDOM, United Kingdom ~72: GOLDBERG, Deborah;LOBO, Brian~ 33:US ~31:62/465,379 ~32:01/03/2017
 2025/10110 ~ Complete ~54:QOE CONTINUITY DURING INTRA-5GC INTER-RAT HANDOVER PROCESS ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: HE, Jing;TOMALA, Malgorzata;YUAN, Ping~
 2025/10117 ~ Complete ~54:EXHAUST STACK FOR GLASS MELTER ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: JORGE LUNA GUTIERREZ;SHANE RASHLEY~ 33:US ~31:18/325,207 ~32:30/05/2023
 2025/10122 ~ Complete ~54:DRILL TRAIL CABLE MANAGEMENT SYSTEM ~71:FLANDERS ELECTRIC MOTOR SERVICE, LLC, 8101 Baumgart Road, Evansville, United States of America ~72: FINDLAY, Graeme;OLIVER, John;SUMCAD, Gustavo~ 33:US ~31:63/471,233 ~32:05/06/2023
 2025/10125 ~ Complete ~54:LOW-ALLOY STEEL ~71:FLSmidth A/S, Vigerslev Allé 77, VALBY 2500, DENMARK, Denmark ~72: JOHANSEN, Johnny;PEDDETI, Kranthi;SEELAM, Naveen~ 33:US ~31:63/470,643 ~32:02/06/2023
 2025/10132 ~ Complete ~54:A METHOD FOR CONTROLLING WEEDS ~71:UPL Europe Supply Chain GmbH, Suurstoffi 37, ROTKREUZ/RISCH 6343, SWITZERLAND, Switzerland;UPL Mauritius Limited, 6th Floor, Suite 157B, Harbor Front Building, President John Kennedy Street, PORT LOUIS, MAURITIUS, Mauritius ~72: CASS, Ian;RENGAN, Srinivasan~ 33:IN ~31:202311041753 ~32:23/06/2023
 2025/10079 ~ Provisional ~54:METHODS OF MANAGING FREE MOVEMENT OF ANIMALS ~71:ROUXCEL TECHNOLOGY (PTY) LTD, 17 Quantum Street, Techno Park, South Africa ~72: LE ROUX, Solomon Petrus~
 2025/10082 ~ Provisional ~54:IOT-BASED PARKING GATE CONTROL SYSTEM AND METHOD FOR TICKETLESS ACCESS AND PRE-VALIDATED EXIT ~71:Franco Myburgh, Plot 186 Buffelsdrift Nature Reserve, Aloe Road, South Africa ~72: Franco Myburgh~
 2025/10085 ~ Complete ~54:A REAL-TIME VEHICLE THREAT DETECTION, CLASSIFICATION AND ALERT SYSTEM USING HYBRID EDGE-CLOUD ARCHITECTURE ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHARSAKADE, Ramkrishna Shantilal;GANDHE, Mithilesh Dinesh;KOTWAL, Girish Narayan;MEHTA, Harsh Kaushal;MHETRE, Satyam Ganesh;MIRAJKAR, Owee Ashish;MOHOL, Siddhi Avinash;RAJURKAR, Avadhoot Umakant~
 2025/10090 ~ Complete ~54:PORTABLE ENGLISH LEARNING AID DEVICE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: SONG Liqiang;WANG Yunna;ZHANG Huancheng~
 2025/10094 ~ Complete ~54:EXPERIMENTAL DEVICE AND TESTING METHOD FOR DETERMINING DYNAMIC TENSILE TESTS OF MATERIALS ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, Tianjiaan District, Huainan City, Anhui Province, 232001, People's Republic of China;China Coal Xinji Energy Co., Ltd., Minhui Street, Tianjiaan District, Huainan City, Anhui Province, 232001, People's Republic of China ~72: DING Gang;GUO Enming;LI Jibao;WANG Haibo;WANG Lianchen;WANG Mengxiang;WU Ming~
 2025/10098 ~ Complete ~54:LOUNGER-COMPATIBLE SUNSHADE ~71:HAIGH, Richard, 21 Gemini Avenue, Morehill Glen, South Africa ~72: HAIGH, Richard~ 33:ZA ~31:2024/08724 ~32:18/11/2024
 2025/10103 ~ Complete ~54:A METHOD AND DEVICE FOR ENDOGENOUS REPAIR OF INTERVERTEBRAL DISCS BASED ON INTRADISCAL PRESSURE REGULATION ~71:Union Hospital, Tongji Medical College, Huazhong University of Science and Technology, No. 1277 Jiefang Avenue, Wuhan, Hubei 430022, People's Republic of China ~72: Fan ZHANG;Fulin ZHOU;Hanhong FANG;Haoran ZHOU;Jianguo WANG;Jianhui XIANG;Jiheng XIAO;Liming XIONG;Tao GE;Weicheng CHEN;Xianglong ZHOU;Xiaomeng MA;Yang LIU~
 2025/10108 ~ Complete ~54:SCALAR QUANTIZATION FOR AUDIO CODING ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., HANSASTRASSE 27C, 80686 MÜNCHEN, GERMANY, Germany ~72: BRENDDEL, Andreas;FUCHS, Guillaume;GUPTA, Kishan;MULTRUS, Markus;PIA, Nicola~
 2025/10115 ~ Complete ~54:SOCCER BALL AND TRAINING ASSEMBLY ~71:ZIZHENG WEN, Yitian Garden, Fuqiang Road, Futian District, Shenzhen, Guangdong, 518000, People's Republic of China ~72: ZIZHENG WEN~ 33:CN ~31:202410016224.5 ~32:04/01/2024;33:US ~31:18/829400 ~32:10/09/2024

2025/10121 ~ Complete ~54:CORNEAL CROSS-LINKING THERAPEUTICS DELIVERY DEVICE ~71:MARK LOBANOFF, 15 Island Road, North Oaks, Minnesota, 55127, United States of America ~72: MARK LOBANOFF~ 33:US ~31:63/463,738 ~32:03/05/2023;33:US ~31:63/538,641 ~32:15/09/2023

2025/10129 ~ Complete ~54:MONITORING AN UNDERGROUND WORKING AREA ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: SNELLMAN, Olli~ 33:EP ~31:23180953.4 ~32:22/06/2023

2025/10087 ~ Complete ~54:HARMFUL GAS MONITORING EQUIPMENT FOR UNDERGROUND CONSTRUCTION ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CHEN Zhanyang;HUANG Peng;LI Guanpeng;QU Songzhao;ZHENG Chao~

2025/10097 ~ Complete ~54:A TURF MOVING SYSTEM ~71:WILLIE SWIEGERS, 46A La Quinta Street, Silver Lakes, South Africa ~72: WILLIE SWIEGERS~

2025/10118 ~ Complete ~54:LOW-TEMPERATURE GLASS CONTAINER BLOWING PROCESS ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: ANDREW CIASCHI;BRIAN COBURN;SCOTT COOPER;WILLIAM PINC~ 33:US ~31:18/331,459 ~32:08/06/2023

2025/10093 ~ Complete ~54:ARTIFICIAL SHELL-ALGAE REEF PROTECTION SYSTEM FOR COASTAL RESTORATION AND APPLICATION THEREOF ~71:Tianjin Sino-German University of Applied Sciences, No.2 Yashen Road, Haihe Education Park, Tianjin, 300350, People's Republic of China;Tianjin University, No.92 Weijin Road, Nankai District, Tianjin, 300072, People's Republic of China;Transport Planning and Research Institute Ministry of Transport, No.6 Shuguangxili Jia, Chaoyang District, Beijing, 100028, People's Republic of China ~72: FANG Zhuo;WANG Cong;ZANG Zhipeng;ZHANG Jinfeng~

2025/10104 ~ Complete ~54:HEAVY METAL FREE HALOGENATED COMPOSITIONS ~71:LUBRIZOL ADVANCED MATERIALS, INC., 9911 Brecksville Road, Cleveland, United States of America ~72: NIE, Li~ 33:US ~31:63/521,125 ~32:15/06/2023

2025/10112 ~ Complete ~54:METHOD FOR DETERMINING A PROCESSING SEQUENCE FOR PROCESSING AN ENSEMBLE OF SEMI-PRODUCTS ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Segundo ALVAREZ GARCIA~

2025/10123 ~ Complete ~54:FORMULATION ON THE BASIS OF ESSENTIAL OILS, AND USE THEREOF IN COMBATTING APHIDS ~71:Incérès, Avenue Louis Philibert, AIX-EN-PROVENCE 13290, FRANCE, France ~72: TAUROU, Inès~ 33:FR ~31:FR2305850 ~32:09/06/2023

2025/10131 ~ Complete ~54:APPLICATION TOOL FOR CEILINGS ~71:Saint-Gobain Placo, Tour Saint-Gobain, 12 Place de l'Iris, COURBEVOIE 92400, FRANCE, France ~72: MOREAU, Sébastien;POUPART, Antonin~ 33:EP ~31:23177092.6 ~32:02/06/2023

2025/10102 ~ Complete ~54:LINKER COMPOUNDS AND LIGAND-DRUG CONJUGATES, PREPARATION METHODS AND USES THEREOF ~71:BIOCYTOGEN PHARMACEUTICALS (BEIJING) CO., LTD., No.12, Baoshen South Street, Daxing Bio-Medicine Industry Park, People's Republic of China ~72: SHANG, Chengzhang;SHEN, Yuelei;YANG, Yi;ZHANG, Lei~ 33:CN ~31:PCT/CN2023/093976 ~32:12/05/2023;33:CN ~31:PCT/CN2023/117368 ~32:07/09/2023;33:CN ~31:PCT/CN2023/120684 ~32:22/09/2023

2025/10105 ~ Complete ~54:DIOPTER ADJUSTMENT AND LOCKING MECHANISM USING LEFT AND RIGHT THREADING ON THE SAME PITCH DIAMETER ~71:SHELTERED WINGS, INC. d/b/a VORTEX OPTICS, ONE VORTEX DRIVE, BARNEVELD, WI 53507, USA, United States of America ~72: MCDERMOT, Connor~ 33:US ~31:63/499,837 ~32:03/05/2023

2025/10111 ~ Complete ~54:SYSTEMS AND METHODS FOR COMPARING SOFTWARE CODE ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: FRASER, Sandy~ 33:AU ~31:2023901689 ~32:30/05/2023

2025/10116 ~ Complete ~54:BATTERY MODULE AND ENERGY STORAGE RACK ~71:RISCO, Raul-loan, Christianul nr. 22, bloc 166 J et, ap 8, Romania ~72: RISCO, Raul-loan~ 33:RO ~31:a 2023 00209 ~32:27/04/2023

2025/10081 ~ Provisional ~54:DIGITAL HEALTH INFORMATION MANAGEMENT SYSTEM ~71:Janice Lucretia Naidoo, 6 Kikuyu Road, South Africa ~72: Janice Lucretia Naidoo~

2025/10084 ~ Complete ~54:A REAL-TIME PERSONALIZED MENTAL HEALTH MONITORING SYSTEM FOR WOMEN USING MULTIMODAL DATA INTEGRATION AND THERAPIST-GUIDED ACTIVE LEARNING ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAUDHARI, Varad Milind;DEDGAONKAR, Suruchi;MORE, Priyanka;SHELKE, Priya~

2025/10088 ~ Complete ~54:AUTOMATIC FEEDING DEVICE FOR CATTLE AND SHEEP BREEDING AND REPRODUCTION ~71:Chifeng Academy of Agricultural & Animal Husbandry Sciences, Research Road Group of Party School, Songshan District, Chifeng City, Inner Mongolia Autonomous Region, 024000, People's Republic of China;Inner Mongolia Academy of Agricultural & Animal Husbandry Sciences, No. 22, Zhaojun Road, Yuquan District, Hohhot City, Inner Mongolia Autonomous Region, 010031, People's Republic of China ~72: Chula SA;Chunhua ZHANG;Hongyu WANG;Huimin LIAN;Le FU;Lin WANG;Liping WANG;Min HONG;Panliang CHEN;Richa A;Shengli LI;Tuya SIQIN;Wenting LI;Xiangli LAN;Yanan SUN;Zhiyou LIU~
33:CN ~31:2025112878053 ~32:10/09/2025

2025/10091 ~ Complete ~54:MACHINE LEARNING-BASED METHOD AND SYSTEM FOR IMPROVING MIDDLE SCHOOL STUDENTS' ACADEMIC PERFORMANCE ~71:Bazhong Enyang Yushan Middle School, Yushanzhen Street, Enyang District, Bazhong City, Sichuan Province, People's Republic of China ~72: Bin Lei;Hai Lu;Hairong Wang;Jiao Zhang;Jing Su;Qingyao Zhang;Shilun Mo;Shun Zhang;Yu Du~
33:CN ~31:202510470608.9 ~32:15/04/2025

2025/10124 ~ Complete ~54:A RECYCLABLE PACKAGING WITH BARRIER TO OXYGEN AND MOISTURE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: GALAFFU, Nicola;NIEDERREITER, Gerhard~ 33:DE ~31:20 2023 102 388.6 ~32:03/05/2023

2025/10128 ~ Complete ~54:OPERATING A MINING VEHICLE WITHIN AN UNDERGROUND WORKING AREA ~71:Sandvik Mining and Construction Oy, Pihlisselkku 9, TAMPERE 33330, FINLAND, Finland ~72: SNELLMAN, Olli;SVENSBERG, Ville~ 33:EP ~31:23182736.1 ~32:30/06/2023

2025/10080 ~ Provisional ~54:ALL PURPOSE OPEN AND CLOSED MULTIFUNCTIONAL STORAGE CONTAINER ~71:Jonathan Klopper, 4 Lulworth Grove , Dalecross sandton, South Africa ~72: Jonathan Klopper~

2025/10086 ~ Complete ~54:A HYBRID TRANSIT DATA BASED MULTIMODAL TRAVEL PLANNING SYSTEM FOR PERSONALIZED ROUTE RECOMMENDATIONS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: KULKARNI, Aparna;MAHAJAN, Arnav;MAHALAXME, Anish;MAKODE, Anushka;MALI, Purva;MANE, Suyash;MARATHE, Vijay~

2025/10101 ~ Complete ~54:DURABLE AND EFFICIENT ANODE MATERIAL DESIGN FOR METAL-AIR BATTERIES ~71:ORE ENERGY B.V., Van Slingelandtplein 19, Netherlands ~72: GONZALEZ-GARCIA, Yaiza;SIETSMA, Jilt;YILMAZ, Aytac~ 33:NL ~31:2034979 ~32:02/06/2023

2025/10107 ~ Complete ~54:A TORQUE TOOL WITH FAULT PROTECTION AND A METHOD OF OPERATING THE SAME ~71:NEW WORLD TECHNOLOGIES INC., 100-30722 MARSHALL ROAD, ABBOTSFORD, BRITISH COLUMBIA V2T 0H9, CANADA, Canada ~72: SALMANINEJAD MEHRABADI, Amir~

2025/10114 ~ Complete ~54:PROTECTION SYSTEMS ~71:2MT MINING PRODUCTS PTY LTD, PO Box 5989, Mackay Mail Centre, Australia ~72: ITHAPE, Vikas;SENANAYAKE, Palitha;SWINSCOE, Michael~
33:AU ~31:2023901674 ~32:29/05/2023

2025/10127 ~ Complete ~54:ANTI-FIBRIL ANTIBODIES ~71:Immutrin Ltd, Cambridge Innovation Capital, 22 Station Road, CAMBRIDGE CB1 2JD, UNITED KINGDOM, United Kingdom ~72: CHRIST, Daniel;HENRY, Jake;JACKSON, Jennifer;LANGLEY, David;PEPYS, Mark Brian;WADE, Jack William~ 33:GB ~31:2308884.2 ~32:14/06/2023;33:GB ~31:2308898.2 ~32:14/06/2023

2025/10134 ~ Complete ~54:MACROCYCLES FOR THE TREATMENT OF AUTOIMMUNE DISEASE ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: KOU, Buyu;LIU, Haixia;SHEN, Hong;WU, Yao;ZHANG, Zhiwei;ZHU, Wei~ 33:IB ~31:2023/108207 ~32:19/07/2023

2025/10568 ~ Provisional ~54:SLEEP MASK WITH REPLACEABLE AROMATHERAPY AND NASAL-OPENING CHEMICAL DELIVERY INSERTS ~71:Ibongwe Funde, 89 Cawood Street, South Africa ~72: Ibongwe Funde~

2025/10078 ~ Provisional ~54:A SYSTEM AND METHOD FOR REAL-TIME MULTI-ROLE CLINICAL TRAINING VERIFICATION ~71:LEIBRANDT, Peter, 115 Jatinga Road, Plaston, MBOMBELA 1201, Mpumalanga Province, SOUTH AFRICA, South Africa ~72: LEIBRANDT, Peter~

2025/10095 ~ Complete ~54:MICROFLUIDIC CHIP-BASED RAPID BILIRUBIN EXTRACTION SYSTEM ~71:Pingdingshan Huixinyuan Biotechnology Co., Ltd, North of Xiazhuang Village, Shilong District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: SHI Dongdong;SHI Hansheng~
33:CN ~31:2024118501446 ~32:16/12/2024

2025/10109 ~ Complete ~54:SYSTEM FOR PNEUMATIC TRANSPORT OF PARTICLES OF A HAZARDOUS SUBSTANCE ~71:X-ENERGY, LLC, 801 THOMPSON AVENUE, SUITE 300, ROCKVILLE, MARYLAND 20852, USA, United States of America ~72: TILTON, Alex~ 33:US ~31:18/310,917 ~32:02/05/2023

2025/10126 ~ Complete ~54:STEEL PLATE HAVING ZINC-BASED COATING LAYER AND EXCELLENT CORROSION RESISTANCE, HOT-STAMPED COMPONENT, AND PRODUCTION 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: JIN, Xinyan;LIU, Hao;TAN, Ning;WANG, Li ~ 33:CN ~31:202310558700.1 ~32:17/05/2023

2025/10130 ~ Complete ~54:PYRAZOLO[4,3-F]QUINAZOLINE DERIVATIVES AS MODULATORS OF G12D MUTANT KRAS USEFUL FOR THE TREATMENT OF CANCER ~71:Jazz Pharmaceuticals Ireland Ltd., Waterloo Exchange, Waterloo Road, DUBLIN, IRELAND, Ireland ~72: AYLOTT, Helen Elizabeth;BHAMRA, Inder;HO, Kelvin;JACKSON, Paula;JONES, Clifford D.;LENG, Daniel J.;RYAN, James~ 33:GB ~31:2307077.4 ~32:12/05/2023;33:GB ~31:2319678.5 ~32:20/12/2023

- APPLIED ON 2025/11/27 -

2025/10196 ~ Provisional ~54:SYSTEM AND METHOD FOR AUTOMATED URINE HEALTH SCREENING IN SANITATION FIXTURES (URICARE) ~71:MAPAYA GIVEN MABOKO, PO BOX 352 RADITSHABA PAX INTRANTIBUS, South Africa ~72: MAPAYA GIVEN MABOKO~

2025/10139 ~ Complete ~54:INTEGRATED HARD ROCK EXCAVATION SYSTEM WITH DRILLING, FRACTURING, CUTTING, AND SUPPORT CAPABILITIES AND METHOD THEREOF ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No.1 Daxue Road, Quanshan District, Xuzhou City, Jiangsu Province, 221116, People's Republic of China;Shaanxi Yanchang Petroleum Yulin Kekegai Coal Industry Co., Ltd., Kekegai Coal Mine, Xiaoji Han Township, Yuyang District, Yulin City, Shaanxi Province, 719000, People's Republic of China ~72: GAO Xuefeng;HOU Wentao;JIANG Hongxiang;LI Qiang;LIU Quanhui;MA Dan;YAN Jinghong;ZHANG Kuirun;ZHANG Wenhao~ 33:CN ~31:2024117217584 ~32:28/11/2024

2025/10189 ~ Complete ~54:PIPELINE SEALING DETECTION DEVICE ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9, Chunxiu Road, Dongcheng District, Beijing 100027, People's Republic of China ~72: JUNBIAO HE~ 33:CN ~31:2025101571997 ~32:12/02/2025

2025/10192 ~ Complete ~54:PROCESS FOR RECOVERING METALS PRESENT IN A PHOSPHORIC ACID SOLUTION ~71:UNIVERSITE MOHAMMED VI POLYTECHNIQUE, Lot 660 Hay Moulay Rachid, Morocco ~72: BENHIDA, Rachid;MAKAN, Mohammed;MAZOUZ, Hamid;MOUTAOUKIL, Zakaria;TAMIN, Abdelilah~ 33:FR ~31:FR2304880 ~32:16/05/2023

2025/10176 ~ Complete ~54:CENTRIFUGAL SEPARATION DEVICE AND METHOD ~71:THE UNIVERSITY OF NEWCASTLE, University Drive, Australia ~72: GALVIN, Kevin Patrick~ 33:AU ~31:2023902169 ~32:06/07/2023

2025/10310 ~ Complete ~54:METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0037812 ~32:01/04/2018;33:WO ~31:PCT/KR2019/003777 ~32:01/04/2019

2025/10311 ~ Complete ~54:METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0037812 ~32:01/04/2018;33:WO ~31:PCT/KR2019/003777 ~32:01/04/2019

2025/10162 ~ Complete ~54:A BLOCKCHAIN BASED DECENTRALIZED CERTIFICATE ISSUANCE AND VERIFICATION SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: FUTANE, Pravin Ramkrishna;JOSHI, Anvit Devidas;JOSHI, Harsh Avadhoot;JOSHI, Shivam Ramesh;JUNAGADE, Ajinkya Pradyumna;KADAM, Aakanksha Vasant;SANAP, Madhura Eknath;WANKHADE, Shalini Vaibhav~

2025/10166 ~ Complete ~54:A REAL-TIME POTHOLE DETECTION, SEVERITY ANALYSIS, AND GPS GEOTAGGING SYSTEM USING SENSOR FUSION ON AN EMBEDDED PLATFORM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BHATLAWANDE, Shripad;BHARGE, Siddharth;MADAKE, Jyoti;PUNIWALA, Shubham Nilesh;RANE, Vedant Nitin;SAVANE, Sankalp Sunil;SHILASKAR, Swati~

2025/10175 ~ Complete ~54:A RAPAMYCIN METHOD OF TREATMENT AND COMPOSITION ~71:AFT PHARMACEUTICALS LIMITED, Level 1, Nielsen Building, 129 Hurstmere Road, Takapuna, New Zealand ~72: ATKINSON, Hartley~ 33:AU ~31:2023203871 ~32:20/06/2023

2025/10143 ~ Complete ~54:CISTERN AND OUTLET FOR A CISTERN ~71:HENTINA TRUST, 27 Church Street, Hoekwil, South Africa ~72: LANGE, Leslie William~

2025/10145 ~ Complete ~54:HIGH-EFFICIENCY MAGNETIC-FLOTATION SYNERGISTIC SEPARATION DEVICE AND APPLICATION THEREOF ~71:Kunming University of Science and Technology, No.68 Wenchang

Road, 121 Avenue, Kunming City, Yunnan Province, People's Republic of China ~72: Changtao WANG; Chuandong ZHAO; Xian XIE; Xiong TONG; Yangsheng CAI; Yiran MA~
2025/10147 ~ Complete ~54: A COMPOSITE DEPRESSANT FOR THE FLOTATION SEPARATION OF COPPER-MOLYBDENUM BULK CONCENTRATE AND ITS APPLICATION THEREOF ~71: Kunming University of Science and Technology, No. 727 Jingming South Road, University Town, Chenggong District, Kunming City, Yunnan Province, 650500, People's Republic of China ~72: Dianwen Liu; Hao Lai; Jiale Kang; Jiaxi Jin; Peilun Shen; Ruixing Fu; Ruizeng Liu; Xiaolin Zhang; Ximei Luo~ 33:CN ~31:202511630605.3 ~32:10/11/2025
2025/10148 ~ Complete ~54: HIGH-YIELD CULTIVATION METHOD FOR IMPROVING DISEASE RESISTANCE OF CHERRY PLUM ~71: Jinhua University of Vocational Technology, No. 888, Haitang West Road, Wucheng District, Jinhua, Zhejiang, People's Republic of China ~72: Haifeng ZHU~
2025/10150 ~ Complete ~54: AN AGILAWOOD EXTRACT AND ITS PREPARATION METHOD THEREOF ~71: The First Affiliated Hospital of Hainan Medical University, No. 31 Longhua Road, Longhua District, Haikou City, Hainan Province, 570102, People's Republic of China ~72: Bingshuai Lu; Chen Xie; Chengxi Yang; Jingzhe Dong; Pengyao Yan; Weizhen Ji; Xinyi Ye; Xinyue Ding; Xu Xiao; Xu Zheng; Yiming Ding; Yunshan Zhao~
2025/10155 ~ Complete ~54: INCRETIN ANALOGS AND USES THEREOF ~71: Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ALSINA-FERNANDEZ, Jorge; COSKUN, Tamer; GUO, Lili; QU, Hongchang~ 33:US ~31:62/608,613 ~32:21/12/2017
2025/10157 ~ Complete ~54: LYMPH-RELEASING COMPOSITIONS OF FATTY ACIDS AND USES THEREOF FOR LYMPHATIC INCORPORATION AND SYSTEMIC DISEASE TREATMENT ~71: AMARIN PHARMACEUTICALS IRELAND LIMITED, 88 Harcourt Street, Dublin 2, Dublin, D02DK18, Ireland ~72: RICHARD LOUIS DUNBAR; RICHARD PRESTON MASON~ 33:US ~31:63/303,365
~32:26/01/2022; 33:US ~31:63/303,383 ~32:26/01/2022; 33:US ~31:63/304,042
~32:28/01/2022; 33:US ~31:63/334,065 ~32:22/04/2022; 33:US ~31:63/334,071
~32:22/04/2022; 33:US ~31:63/340,292 ~32:10/05/2022; 33:US ~31:63/340,304
~32:10/05/2022; 33:US ~31:63/342,509 ~32:16/05/2022; 33:US ~31:63/348,908 ~32:03/06/2022
2025/10137 ~ Complete ~54: PHARMACEUTICAL COMPOSITION COMPRISING LINAGLIPTIN AND OPTIONALLY A SGLT2 INHIBITOR, AND USES THEREOF ~71: BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: EISENREICH, Wolfram~ 33:US ~31:61/152,306 ~32:13/02/2009
2025/10141 ~ Complete ~54: BORON NITRIDE-FECO@C NANOSHEET MICROWAVE ABSORBING 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: CHEN Meiqi; FENG Qiao; GE Yijin; LI Chenyang; LIANG Banglei; LIU Fangfang; LIU Shirui; SONG Bo; TENG Weili; XIA Xuelian; ZHANG Chunmei~
2025/10149 ~ Complete ~54: BIMETALLIC FECO-MOF NANOSHEET-POLYPYRROLE COMPOSITE MICROWAVE ABSORBING 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: CHEN Yuzhu; DENG Rixi; FENG Qiao; GAO Lei; LIANG Banglei; LIU Shirui; LIU Tingrui; TENG Weili; XIA Xuelian; ZHANG Chunmei; ZHAO Manjia~
2025/10152 ~ Complete ~54: A BOOK CART FOR SINGLE-PERSON SHELVING AT HIGH POSITIONS ~71: Kunming Metallurgy College, No. 63 Ningbo Road, Anning City, Kunming City, Yunnan Province, 650300, People's Republic of China ~72: Guoxiang Jiang; Jinliang Zhang; Lei Ma; Liping Duan; Wei Wu; Xu Dong; Yujia Zhu; Zhuojun Ren~
2025/10154 ~ Complete ~54: SCOLIOSIS COMBING AND MASSAGE DEVICE ~71: HE BEI SHENG ZHONG YI YUAN (First Affiliated Hospital of Hebei University of Traditional Chinese Medicine, Hebei Center for Prevention and Control of Scoliosis in Children and Adolescents), No. 389, Zhongshan East Road, Shijiazhuang, Hebei, People's Republic of China ~72: Kai SU; Lu LIU; Shaobiao WANG; Wei ZHANG; Xuan WANG; Yang YANG; Yaxuan CHEN; Yulei LIANG~ 33:CN ~31:202511440954.9 ~32:10/10/2025
2025/10309 ~ Complete ~54: METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE ~71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, South Africa ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0037812 ~32:01/04/2018; 33:WO ~31:PCT/KR2019/003777 ~32:01/04/2019
2025/10180 ~ Complete ~54: BIFUNCTIONAL SMALL MOLECULES TO TARGET THE SELECTIVE DEGRADATION OF CIRCULATING PROTEINS ~71: Biohaven Therapeutics Ltd., Ritter House, P.O. BOX 173, ROAD TOWN VG1110, TORTOLA, VIRGIN ISLANDS (BRITISH), Virgin Islands (British) ~72: DUBOWCHIK, Gene M.; KAZMIERSKI, Wieslaw~ 33:US ~31:63/498,852 ~32:28/04/2023; 33:US ~31:63/517,984 ~32:07/08/2023

2025/10186 ~ Complete ~54:MITOCHONDRIA SPECIFIC TRANSCRIPTION INHIBITORS ~71:LUNELLA BIOTECH, INC., 145 Richmond Road, Ottawa, Ontario, K1Z 1A1, Canada ~72: FEDERICA SOTGIA;FILIPPO DI PISA;JUSSI KANGASMETSA;MICHAEL P LISANTI~ 33:US ~31:63/469,115 ~32:26/05/2023

2025/10188 ~ Complete ~54:SURF CRAFT ~71:MACQUARIE UNIVERSITY, Balaclava Road, North Ryde, New South Wales, 2109, Australia ~72: LAURA RYAN;NATHAN HART~ 33:AU ~31:2023901539 ~32:18/05/2023

2025/10190 ~ Complete ~54:SAFETY MANAGEMENT SYSTEM FOR HIGHLY DANGEROUS PROJECTS ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9, Chunxiu Road, Dongcheng District, Beijing 100027, People's Republic of China ~72: HE LI~ 33:CN ~31:2025105415413 ~32:27/04/2025

2025/10195 ~ Provisional ~54:LOCKNALERT BRIDGE: LOCAL SERIAL INTEGRATION MODULE FOR PARADOX ALARM SYSTEMS ~71:LocknAlert (Pty) LTD, 12 marble Crescent, South Africa ~72: Raine Pretorius~

2025/10135 ~ Provisional ~54:NOVEL ANTIMICROBIAL PEPTIDE "MELLIVARIN" ~71:MAPAYA GIVEN MABOKO, PO BOX 352 RADITSHABA PAX INTRANTIBUS, South Africa ~72: MAPAYA GIVEN MABOKO~

2025/10153 ~ Complete ~54:AI-PREDICTION-DRIVEN METHOD AND SYSTEM FOR CONTROLLING THE DISSOLUTION BEHAVIOR OF MAGNESIUM ALLOYS ~71:Kunming University of Science and Technology, No. 68, Wenchang Road, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Ju Rong;Jueyi Ye;Le Zhao;Xiaohua Yu~ 33:CN ~31:202510169229.6 ~32:17/02/2025

2025/10158 ~ Complete ~54:AN ANIMAL CONTROL COMPOSITION AND USE THEREOF ~71:SYLVATICA BIOPROTECT (PTY) LTD, Vleioerie Villa 17171, South Africa ~72: VAN DEVENTER, Hendrik Theunis~

2025/10144 ~ Complete ~54:MULTIMODAL FUSION-BASED TOURISM NAVIGATION METHOD AND SYSTEM ~71:SUZHOU UNIVERSITY, Erpu Village, Zhuxianzhuang Town, Yongqiao District, Suzhou City, Anhui Province, People's Republic of China ~72: FU Panpan;GAO Yalan;WANG Sheng;YANG Mei~

2025/10160 ~ Complete ~54:A SYSTEM FOR DEEP LEARNING-BASED ORAL CANCER SCREENING USING FINE-TUNED EFFICIENTNET-B3 ARCHITECTURE AND GRAD-CAM EXPLAINABILITY ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: GHULE, Gauri;JOSHI, Atharva Rajendra;MASLEKAR, Atharva Vinayak;PAWAR, Yash Vaibhav;RATHI, Snehal;SURYAVANSHI, Atharva Santosh~

2025/10163 ~ Complete ~54:A LOST PROPERTY RECOVERY SYSTEM UTILIZING PASSIVE NFC/QR TAGGING WITH MACHINE LEARNING-DRIVEN GEOSPATIAL PREDICTION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: DESHMUKH, Aanish Rajendra;KADU, Akshita Sampat;SHELKE, Priya;SURYAVANSHI, Amol;SURYAWANSHI, Aditya Manoj;VYAVHARE, Aditya Somnath~

2025/10171 ~ Complete ~54:INHIBITORS OF CANINE JANUS KINASE AND USES THEREOF ~71:ANIMOL DISCOVERY, INC., 201 Washington St, Suite 3930, United States of America ~72: CALABRESE, Andrew Antony;STANTON, David T.~ 33:US ~31:63/470,589 ~32:02/06/2023

2025/10181 ~ Complete ~54:GENOME EDITING COMPOSITIONS TARGETING THE B2M GENE AND METHODS OF USE ~71:Prime Medicine, Inc., 60 First Street, CAMBRIDGE 02141, MA, USA, United States of America ~72: AUNINS, Thomas R.;PADHYE, Simran K.;ROY, Matthew S.;STILLER, John;WATERMAN, David~ 33:US ~31:63/502,563 ~32:16/05/2023;33:US ~31:63/603,477 ~32:28/11/2023

2025/10167 ~ Complete ~54:SYSTEMS AND METHODS FOR AUTOMATED CURATION OF MULTIMEDIA COMPOSITIONS AND GENERATION OF COLLABORATIVE DIGITAL ASSETS ~71:Daniel YERONDIS, 3 Shapira St., Ramat Gan, 5250616, Israel;Nerya DEHI, 52 HaSmadar St., Karmei Katif, 7959800, Israel;Netanel GISPAN, 6 Hillel St., Jerusalem, 9458106, Israel;Netanel LEV ARI, 2 Emek HaHula St., Modi'in-Maccabim-Re'ut, 7174212, Israel;Sean LEV ARI, 2 Emek HaHula St., Modi'in-Maccabim-Re'ut, 7174212, Israel;Yaniv TARAGAN, 2 Emek HaHula St., Modi'in-Maccabim-Re'ut, 7174212, Israel ~72: Daniel YERONDIS;Nerya DEHI;Netanel GISPAN;Netanel LEV ARI;Sean LEV ARI;Yaniv TARAGAN~ 33:IL ~31:317471 ~32:04/12/2024;33:US ~31:19/306,059 ~32:21/08/2025

2025/10169 ~ Complete ~54:FREEZE-DRIED COMPOSITION COMPRISING NON-SACCHAROMYCES YEAST ~71:CHR. HANSEN A/S, Boege Alle 10-12, Denmark ~72: BISGAARD-FRANTZEN, Hans;ERIKSSON, Emil;GRUENERT, Philipp Paul;HAMM, Duncan;POHL, Sebastian~ 33:EP ~31:23184174.3 ~32:07/07/2023

2025/10173 ~ Complete ~54:CURVED URETERIC ACCESS SHEATH ~71:WISNIEWSKI, Pawel, 71 PRINCESS ALICE AVENUE, DURBAN, 4001, South Africa ~72: WISNIEWSKI, Pawel~ 33:ZA ~31:2023/05349 ~32:17/05/2023

2025/10177 ~ Complete ~54:METHODS AND SYSTEMS FOR DETECTING PYRAZINAMIDE RESISTANCE MUTATIONS IN MYCOBACTERIUM TUBERCULOSIS ~71:Rutgers, The State University of New Jersey, 83

Somerset Street, NEW BRUNSWICK 08901, NJ, USA, United States of America ~72: ALLAND, David;CHAKRAVORTY, Soumitesh~ 33:US ~31:63/506,227 ~32:05/06/2023
 2025/10136 ~ Provisional ~54:A HYPERDIMENSIONAL PATH-INTEGRATION SYSTEM FOR HEURISTIC NAVIGATION AND CAUSAL CACHING IN NEURO-SYMBOLIC ARCHITECTURES ~71:Benjamin Derrick Spies, 27 Grace Crescent, Beacon Bay, South Africa ~72: Benjamin Derrick Spies~
 2025/10138 ~ Complete ~54:A LOAD-INDICATING DEVICE ~71:Dun-Cron Electrical CC, 26 Albatross Street, SECUNDA 2302, Mpumalanga Province, SOUTH AFRICA, South Africa ~72: CRONJE, Michael Duncan;CRONJE, Willem Hendrik~ 33:ZA ~31:2024/06556 ~32:27/08/2024
 2025/10168 ~ Complete ~54:SOLID ELACESTRANT DIHYDROCHLORIDE COMPOSITIONS, METHODS OF MAKING THE SAME, AND METHODS OF TREATMENT USING THE SAME ~71:BERLIN-CHEMIE AG, Glienicke Weg 125, Germany ~72: BURKE, Matthew D.~ 33:US ~31:63/471,258 ~32:05/06/2023
 2025/10170 ~ Complete ~54:CALIXARENE-BASED DELIVERY SYSTEM AND METHOD OF USE ~71:QUANTOOM BIOSCIENCES S.A., Rue de la Maîtrise 11, Belgium ~72: BEVERNAEGIE, Robin;VANDER STRAETEN, Aurélien~ 33:EP ~31:23170808.2 ~32:28/04/2023
 2025/10140 ~ Complete ~54:COMBINED ACTIVATOR SUITABLE FOR REVERSE FLOTATION OF PHOSPHATE ORE AND APPLICATION THEREOF ~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 68, Wenchang Road, 121st Street, Kunming City, Yunnan Province, 650000, People's Republic of China ~72: Ciyun CHEN;Dianwen LIU;Fengting ZHAO;Jiangli LI;Lingpan DU;Peilun SHEN;Qinbo CAO;Shuai XU~ 33:CN ~31:2025105173560 ~32:23/04/2025
 2025/10146 ~ Complete ~54:VEGETARIAN DRIED MEAT FLOSS PREPARED FROM LENTINUS EDODES STEMS AND PREPARATION METHOD THEREOF ~71:Jilin Agricultural University, 2888 Xincheng Street, Nangan District, Changchun City, Jilin Province, People's Republic of China ~72: FAN Hongxiu;LIU Hongcheng;LIU Tingting;ZHANG Shanshan~
 2025/10184 ~ Complete ~54:DOUBLE STRANDED OLIGONUCLEOTIDE FOR MODULATING JAK1 EXPRESSION ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BERNINGER, Philipp Friedrich;BLEICHER, Konrad;FUNDER, Erik;HANSEN, Dennis Jul;HULTSCH, Kathrin;JACOBSEN, Helle;KELLER, Michael;LARSEN, Inna Appeldorff;LI, Meiling;SANTOS FERREIRA, Tiago Francisco;TEHLER, Disa Elisabet;WINTHER, Lotte;WORM, Jesper;WYSS, Lena~ 33:EP ~31:23179895.0 ~32:16/06/2023
 2025/10185 ~ Complete ~54:SMALL MOLECULE INHIBITORS OF GLUTAMINASE ~71:Leal Therapeutics, Inc., 17 Briden Street, WORCESTER 01605, MA, USA, United States of America ~72: ABELIOVICH, Asa;ASHWELL, Mark;CHENG, Yunxing;HECKMAN, Laura;LIU, Xiongcai;SHI, Xianglin~ 33:IB ~31:2023/093247 ~32:10/05/2023;33:US ~31:63/507,981 ~32:13/06/2023;33:US ~31:63/510,186 ~32:26/06/2023;33:US ~31:63/512,010 ~32:05/07/2023;33:US ~31:63/519,159 ~32:11/08/2023;33:US ~31:63/520,771 ~32:21/08/2023;33:US ~31:63/578,647 ~32:24/08/2023;33:US ~31:63/580,931 ~32:06/09/2023;33:US ~31:63/581,243 ~32:07/09/2023;33:US ~31:63/585,213 ~32:25/09/2023;33:US ~31:63/588,203 ~32:05/10/2023;33:US ~31:63/600,372 ~32:17/11/2023;33:US ~31:63/606,517 ~32:05/12/2023;33:US ~31:63/549,862 ~32:05/02/2024;33:US ~31:63/557,452 ~32:23/02/2024;33:US ~31:63/565,306 ~32:14/03/2024
 2025/10165 ~ Complete ~54:A SYSTEM FOR MARATHI DOMAIN-SPECIFIC PROGRAMMING INCORPORATING LEXICAL, SYNTACTIC, AND SEMANTIC ANALYSIS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: JAMBHULKAR, Shreyash;PATAYEET, Saket;PUJARI, Sameera;SAKHARKAR, Mrudul;SALUNKHE, Prachi;VAYADANDE, Kuldeep~
 2025/10172 ~ Complete ~54:PHARMACEUTICAL COMBINATIONS AND COMPOSITIONS THEREOF COMPRISING ANTIBACTERIAL AGENTS ~71:CIPLA LIMITED, Cipla House, Peninsula Business Park, Ganpatrao Kadam Marg, Lower Parel, Maharashtra, India ~72: GOGTAY, Jaideep Ashok;GUPTA, Vaishali Vikas;SAWANT, Sandesh Vishwanath~ 33:IN ~31:202321031203 ~32:02/05/2023
 2025/10178 ~ Complete ~54:NEW TLR-4 ANTAGONIST APTAMERS ~71:Merck Patent GmbH, Frankfurter Straße 250, DARMSTADT 64293, GERMANY, Germany ~72: AVIÑO ANDRÉS, Ana María;ERITJA CASADELLÀ, Ramón;HERNÁNDEZ JIMÉNEZ, Macarena;PIÑEIRO DEL RIO, David;SEGARRA DE LA PEÑA, David;ZARABOZO LEAL, María Eugenia~ 33:EP ~31:23382476.2 ~32:22/05/2023
 2025/10179 ~ Complete ~54:TNF INHIBITOR COMBINATION THERAPIES ~71:Istesso 2 Limited, 3 Pancras Square, Kings Cross, LONDON N1C 4AG, UNITED KINGDOM, United Kingdom ~72: FOSTER, Martyn Leslie;PATEL, Lisa~ 33:GB ~31:2308547.5 ~32:08/06/2023

2025/10174 ~ Complete ~54:OPA1 ANTISENSE OLIGOMERS FOR TREATMENT OF CONDITIONS AND DISEASES ~71:STOKE THERAPEUTICS, INC., 45 Wiggins Avenue, United States of America ~72: AZNAREZ, Isabel;MEENA, Meena;PETERS, David Grant;RAVIPATY, Shobha;VENKATESH, Aditya~ 33:US ~31:63/505,333 ~32:31/05/2023

2025/10193 ~ Complete ~54:OSTEOGLYCIN AS REGENERATIVE AGENT FOR LUNG TISSUE ~71:RIJKSUNIVERSITEIT GRONINGEN, Broerstraat 5, Netherlands ~72: FRIJLINK, Henderik Willem;GOSENS, Reinoud;NAGELKERKE, Adriana Pieterella;VAN DER KOOGE, Luke~ 33:EP ~31:23179039.5 ~32:13/06/2023

2025/10142 ~ Complete ~54:HERICIUM ERINACEUS FERMENTED LIQUOR USING PALEOMYCETES AND PREPARATION METHOD THEREOF ~71:Taisuifu Biotechnology Co., Ltd., Room 1809, Building 2, Lixiang Jiayuan, No. 15612 Century Avenue, Jinan Area, Free Trade Pilot Zone, Jinan City, Shandong Province, People's Republic of China ~72: Zhenyan Xu~

2025/10159 ~ Complete ~54:AN AUTOMATED GREYWATER PURIFICATION SYSTEM FOR DOMESTIC WASHING MACHINES USING COAGULATION AND MULTI-LAYER MEMBRANE FILTRATION ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: JOSHI, Anushka Avinash;KULKARNI, Shreya Ramesh;MALI, Harshal Mahaling;MANE, Yash Pratap;SATPUTE, Satchidanand;THOMAS, Leon~

2025/10161 ~ Complete ~54:A SYSTEM FOR SARCASM DETECTION IN TEXTUAL COMMUNICATION USING DEEP LEARNING TRANSFORMER MODELS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: NAVANDAR, Pranav;RAUT, Vivek Nandkishor;SADAVARTE, Riddhi;SANGOLE, Om Dnyandev;TOMAR, Pratham;VAYADANDE, Kuldeep Baban~

2025/10164 ~ Complete ~54:A VEHICLE-TO-VEHICLE EMERGENCY CORRIDOR GENERATION SYSTEM FOR BRAKE-FAILURE EVENTS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BAWANKAR, Shardul Pravin;BUVA, Utkarsh Krishnat;DEDGAONKAR, Suruchi Gaurav;KALLAWAR, Prapti Vinod;REGE, Pallavi Ravindra;SHELKE, Priya Makarand;SURYAWANSHI, Amol Shivajirao;TIWASKAR, Shweta Aditya~

2025/10182 ~ Complete ~54:METHOD FOR COATING FIREARM BARREL ~71:FN Herstal S.A., Voie de Liège, 33, HERSTAL 4040, BELGIUM, Belgium ~72: AUSSAVY, Delphine;DUBOIS, Michaël;FERON, Geoffroy;STUTO, Giorlando~ 33:EP ~31:23177919.0 ~32:07/06/2023

2025/10183 ~ Complete ~54:ADDITIVE COMPOSITION FOR STRENGTH ENHANCEMENT OF CEMENTITIOUS COMPOSITIONS ~71:GCP Applied Technologies Inc., 20 Moores Road, MALVERN 19355, PA, USA, United States of America ~72: CHEUNG, Josephine H.;DETELLIS, Joshua;THOMAS, Jeffrey J.~ 33:FR ~31:FR2304584 ~32:09/05/2023;33:US ~31:18/658,709 ~32:08/05/2024

2025/10187 ~ Complete ~54:INSTALLATION AND METHOD FOR CLEANING INTERIORS OF RECEPTACLES AND FACILITIES ~71:BANG & CLEAN GMBH, Bünzweg 15, 5504, Othmarsingen, Switzerland ~72: JAN-MARCO KAISER;MARC KEUSCH;MARCEL MEIER;RETO STEINER~ 33:CH ~31:CH000618/2023 ~32:12/06/2023

2025/10191 ~ Complete ~54:EXTRUSION BLOW-MOULDING MACHINE AND METHOD FOR PRODUCING A HOLLOW BODY ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, 6971, Hard, Austria ~72: THOMAS BOHLE~ 33:CH ~31:CH000599/2023 ~32:07/06/2023

2025/10151 ~ Complete ~54:METHOD FOR PREPARING GAMA-AMINOBUTYRIC ACID-CONTAINING MILK TEA ~71:Chengdu No.7 High School, No.1 Middle Linyin Street, Wuhou District, Chengdu, Sichuan, People's Republic of China ~72: JIANG Yiyun~

2025/10156 ~ Complete ~54:ANTIMICROBIAL COMPOSITIONS AND METHODS FOR TREATING PLANT DISEASES ~71:THOMAS D JOHNSON, P O Box 21 Buffalo, SD 57720, United States of America ~72: THOMAS D JOHNSON~ 33:US ~31:17/516,229 ~32:01/11/2021

2025/10308 ~ Complete ~54:METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE ~71:B1 INSTITUTE OF IMAGE TECHNOLOGY, INC., 1213-ho, 525, Gonghangdae-ro Gangseo-gu,, Republic of Korea ~72: KIM, Ki Baek~ 33:KR ~31:10-2018-0037812 ~32:01/04/2018;33:WO ~31:PCT/KR2019/003777 ~32:01/04/2019

- APPLIED ON 2025/11/28 -

2025/10199 ~ Provisional ~54:HERDCOUNT (AI-POWERED REAL-TIME COUNTING SYSTEM) ~71:Delight Phefadu, 3 WF Nkomo Street, South Africa;Mogomotsi Boitse, 1027 Kutlwano Street, South Africa ~72: Delight Phefadu;Mogomotsi Boitse~

2025/10216 ~ Complete ~54:METHOD FOR ALIGNING THE FACE OF A PERSON IN AN IMAGE ~71:IDEMIA Public Security France, 2 Place Samuel de Champlain, COURBEVOIE 92400, FRANCE, France ~72: MONET, Damien;d'YVOIRE, François~ 33:FR ~31:2500028 ~32:03/01/2025

2025/10222 ~ Complete ~54:REQUEST-BASED POWERING BY WIRELESS SIGNAL ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 16483, Sweden ~72: ARVIDSON, Pontus;SUNDMAN, Dennis;WILHELMSSON, Leif~

2025/10226 ~ Complete ~54:MOULDING OF HOLLOW MOULDED FIBRE PRODUCTS ~71:PULPEX LIMITED, Unit 1, Cambridge South, West Way, United Kingdom ~72: ASHCROFT, Theo Richard;PROZESKY, Daniel George;TURNER, Adam Richard~ 33:GB ~31:2310167.8 ~32:03/07/2023

2025/10228 ~ Complete ~54:METHOD OF CONTROLLING AN ELECTROLYSER CELL STACK ~71:CERES INTELLECTUAL PROPERTY COMPANY LIMITED, Viking House, Foundry Lane, United Kingdom ~72: HJALMARSSON, Per;METHLEY, Ian;RYLEY, Joshua~ 33:GB ~31:2308980.8 ~32:15/06/2023

2025/10239 ~ Complete ~54:LAMINATE PANEL WITH OIL FOR SEALING ~71:Lignum Technologies AG, Rütihofstr.1, NIEDERTEUFEN 9052, SWITZERLAND, Switzerland ~72: WALLINGER, Andreas~ 33:EP ~31:23180078.0 ~32:19/06/2023

2025/10255 ~ Complete ~54:CRYSTAL FORMS OF SODIUM SALT OF POLYCYCLIC CARBAMOYLPIRIDONE DERIVATIVE, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:JIANGSU AIDEA PHARMACEUTICAL GROUP CO., LTD., No.69 New Ganquanxi Road, Hanjiang District, People's Republic of China;NANJING AIDEA PHARMACEUTICAL TECHNOLOGY CO., LTD., 19th Floor, Longshan Lake Convention and Exhibition Center, People's Republic of China;YANGZHOU AIDEA PHARMACEUTICAL TECHNOLOGY CO., LTD., No.6 Qiqiao Road, High-tech Industrial Development Zone, People's Republic of China ~72: FU, Heliang;HU, Tianjin;QI, Hong;TANG, Tingting;TIAN, Zongyong;WEI, Yufeng;YUN, Xinming;ZHANG, Li~ 33:CN ~31:202310727199.7 ~32:19/06/2023

2025/10197 ~ Provisional ~54:ANGLED DOUBLE SEAMING AREA FOR BEVERAGE CAN END ~71:Martin Hempel, Endeavour Farm, South Africa ~72: Martin Hempel~

2025/10200 ~ Provisional ~54:HYBRID JAMMER-RESILIENT VEHICLE TRACKING AND RECOVERY SYSTEM USING GPS, RF BEACONING, AND BLUETOOTH MESH NETWORKING ~71:Eric Mashudu Mgiba, 410 San Antonio Close Silverwood Estate, South Africa ~72: Eric Mashudu Mgiba~ 33:ZA ~31:28/11/2025 ~32:21/11/2025

2025/10201 ~ Provisional ~54:REMOTELY OPERABLE UNDERWATER MINING APPARATUS ~71:WILSON, Gary Gordon, 8 Riverside Drive, Kommetjie, CAPE TOWN 7975, Western Cape Province, SOUTH AFRICA, South Africa ~72: WILSON, Gary Gordon~

2025/10204 ~ Provisional ~54:INTEGRATED TRIPLE-SCREEN AERIAL VEHICLE MONITORING AND CONTROL STATION WITH EMBEDDED FOLDABLE UAV, AI PROCESSING, MULTI-NETWORK CONNECTIVITY, AND EXPANDABLE SENSOR FRAMEWORK ~71:Ahmed Waseef Saib, 24 Park Avenue, Desainager, South Africa ~72: Ahmed Waseef Saib~

2025/10206 ~ Provisional ~54:SYSTEM AND METHOD FOR A CANONICAL ATTESTATION RECEIPT (NAR/1.0) WITH DETERMINISTIC DUAL CARRIAGE AND DISPUTE-READY EVIDENCE HOOKS ~71:Venture Labs, 7 Sybille Road, South Africa ~72: Patrick Le Roux~

2025/10227 ~ Complete ~54:SYSTEMS, METHODS AND COMPUTER PROGRAM PRODUCTS FOR INDICATING THE LOCATION OF INFORMATION IN DOCUMENTS ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: O'BRIGHT, Bryan~ 33:AU ~31:2023901786 ~32:06/06/2023

2025/10237 ~ Complete ~54:5,6 UNSATURATED BICYCLIC HETEROCYCLES 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: BRILL, Zachary G.;CHENG, Chen;HAYES, Donna A. A. W.;MCCLYMONT, Kyle S.;MERCHANT, Rohan Rajiv;TIAN, Maoqun~ 33:US ~31:63/505,807 ~32:02/06/2023

2025/10202 ~ Provisional ~54:SYSTEM AND METHOD FOR DISPENSING CHILLED AND BOILING WATER ~71:BIBO WATER (PTY) LTD, 28 6th Street, WYNBERG, Johannesburg 2090, Gauteng, SOUTH AFRICA, South Africa ~72: FINGER, Sholom Dov-Ber~

2025/10210 ~ Complete ~54:SPECIAL VEHICLE FOR LONG-DISTANCE TRANSPORTATION AND FRESHNESS PRESERVATION OF GRAPES ~71:Tianjin Academy of Agricultural Sciences, No. 26 Hangtian Road, Nankai District, Tianjin, 300110, People's Republic of China;Tianjin Yunni Technology Co., Ltd., 303-7, No.10 Chong'anli, Xincun Street, Binhai New Area, Tianjin, 300000, People's Republic of China ~72: CHEN, Cunkun;DONG, Chenghu;JI, Haipeng;LI, Tong;LI, Xiaoxue;YING, Xiaochuan;YU, Jinze;ZHANG, Na;ZHENG, Pufan~

2025/10214 ~ Complete ~54:CESIUM-BASED AIR QUALITY MONITORING AND DISPLAY METHOD AND SYSTEM ~71:Daqing Anruida Technology Development Co., Ltd., Room A2101, 2102, 2103 and 2105, Building A, Daqing E-commerce Industrial Park, No. 4 Xinxing Street, High-tech Zone, Daqing, People's Republic of China ~72: Kaihui LI;Lu BAI;Xinwei YU~ 33:CN ~31:202510664225.5 ~32:22/05/2025

2025/10215 ~ Complete ~54:COMBINED DETECTION METHOD FOR PEAR1 AND GP1BA GENE POLYMORPHISMS BASED ON FLUORESCENT PROBE PCR ~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: Jingjing LIU;Peng RAO~

2025/10208 ~ Complete ~54:MULTI-PURPOSE GYMNASTICS TRAINING DEVICE ~71:Shandong University of Finance and Economics, No. 7366, Second Ring East Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: ZHANG Xuefei~

2025/10209 ~ Complete ~54:INTELLIGENT AUTONOMOUS TRANSPORT VEHICLE FOR AGRICULTURAL PRODUCT PRESERVATION ~71:Tianjin Academy of Agricultural Sciences, No. 26 Hangtian Road, Nankai District, Tianjin, 300110, People's Republic of China;Tianjin Yunni Technology Co., Ltd., 303-7, No.10 Chong'anli, Xincun Street, Binhai New Area, Tianjin, 300000, People's Republic of China ~72: CHEN, Cunkun;DONG, Chenghu;JI, Haipeng;LI, Tong;LI, Xiaoxue;YING, Xiaochuan;YU, Jinze;ZHANG, Na;ZHENG, Pufan~

2025/10212 ~ Complete ~54:METHOD FOR SOUS-VIDE COOKING OF YAK MEAT ~71:Sichuan Tourism University, No. 459, Hongling Road, Longquanyi District, Chengdu City, Sichuan Province, People's Republic of China ~72: FAN Yingying;JI Derong;LIANG Pengjuan;TANG Jingqiu;WANG Shiya;YAN Yuting;YUE Yilin;ZENG Zhipeng;ZHANG Yuanting~

2025/10218 ~ Complete ~54:VAGUS NERVE STIMULATION SYSTEM ~71:PARASYM LTD, 4th Floor, 18 St Cross Street, London, EC1N 8UN, United Kingdom ~72: NATHAN DUNDOVIC;SOPHIE DUNDOVIC~ 33:AU ~31:2019902913 ~32:13/08/2019

2025/10219 ~ Complete ~54:SODIUM HYPOCHLORITE STABILIZATION ~71:NUVEST RECOVERY SOLUTIONS (PTY) LTD, 65 Philip Engelbrecht Dr, Meyersdal, 1448, South Africa ~72: ARTHUR PRETORIUS;IAN TUNNICLIFFE~ 33:ZA ~31:2024/09144 ~32:29/11/2024

2025/10225 ~ Complete ~54:LOCKING BRACKET ~71:VICTAULIC COMPANY, 4901 Kesslersville Road, Easton, United States of America ~72: HANEY, Craig;LEASURE, Nicholas;SLOAN, Brian~ 33:US ~31:63/512,748 ~32:10/07/2023

2025/10234 ~ Complete ~54:RADIOPHARMACEUTICAL COMPOSITIONS TARGETING CARBONIC ANHYDRASE IX AND USES THEREOF ~71:RayzeBio, Inc., 5505 Morehouse Dr, Suite 300, SAN DIEGO 92121, CA, USA, United States of America ~72: BRAVO, Yalda;HUDSON, Andrew R.;LAI, Andilij G.;SMITH, Nicholas D.;TRAN, Joe Anh~ 33:US ~31:63/499,666 ~32:02/05/2023

2025/10244 ~ Complete ~54:INSECTICIDAL FUSION POLYPEPTIDES AND METHODS FOR THEIR USE ~71:Impetus Agriculture, Inc., 4340 Duncan Ave., ST. LOUIS 63110, MO, USA, United States of America ~72: ABDELGAFFAR, Heba Mohamed Yassen;HROMOCKYJ, Alexander Eugene;JURAT-FUENTES, Juan Luis~ 33:US ~31:63/505,286 ~32:31/05/2023;33:US ~31:63/505,949 ~32:02/06/2023

2025/10246 ~ Complete ~54:FUNGICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: EDMUNDS, Andrew;GRASSO, Valeria;SCARBOROUGH, Christopher Charles;WOLF, Hanno Christian~ 33:EP ~31:23179120.3 ~32:14/06/2023

2025/10250 ~ Complete ~54:DUAL PRE-CLEANER AIR FILTER DESIGN ~71:CATERPILLAR INC., 100 NE Adams Street, Peoria, United States of America ~72: EADIE, Corey C.;SPENGLER, Philip C.~ 33:US ~31:18/203,440 ~32:30/05/2023

2025/10253 ~ Complete ~54:BIO-LUMPIVAXIN FORMULATIONS AND METHOD OF PREPARATION THEREOF ~71:BIOVET PRIVATE LIMITED, No. 308, 3rd Phase, KIADB Industrial Area, Kolar District, Malur, India ~72: ELLA, Krishna Murthy;KILARI, Sreenivasulu~ 33:IN ~31:202341025034 ~32:01/05/2023

2025/10241 ~ Complete ~54:PERFORMANCE BOOSTERS FOR MULTICORE PROCESSORS IN HARD-REAL-TIME SAFETY-CRITICAL AVIONICS APPLICATIONS ~71:Leonardo S.p.A., Piazza Monte Grappa, 4, ROMA 00195, ITALY, Italy ~72: BARRETTA, Domenico;LAZZERINI, Claudio;PONZELLETTI, Alberto;SCAFFEO, Silvia;SCOSCINI, Stefano;SOZZI, Marco;TEODORI, Roberto;TRAVERSONE, Massimo~ 33:EP ~31:23172596.1 ~32:10/05/2023;33:IT ~31:102024000007477 ~32:04/04/2024;33:IT ~31:102024000007480 ~32:04/04/2024;33:IT ~31:102024000007483 ~32:04/04/2024;33:IT ~31:102024000007504 ~32:04/04/2024;33:IT ~31:102024000007507 ~32:04/04/2024

2025/10242 ~ Complete ~54:COMPOUNDS FOR THE DEGRADATION OF EGFR KINASE ~71:BeOne Medicines I GmbH, Aeschengraben 27, BASEL 4051, SWITZERLAND, Switzerland ~72: LEI, Bailin;LIU,

Guanjun;LIU, Huaqing;QI, Xinzhu;WANG, Zhiwei;ZHAO, Yizhou~ 33:IB ~31:2023/097387
 ~32:31/05/2023;33:IB ~31:2023/125498 ~32:19/10/2023
 2025/10251 ~ Complete ~54:DUMP BODY AND FRONT WALL RETROFITTABLE HEAT TRANSFER SYSTEM
 ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 3501 N. FM Hwy 1417, Denison, United States of
 America ~72: HETTINGER, Daniel, R.;PONNUCHAMY, Vaitheeswaran;WYLIN, Christopher, L.~
 33:US ~31:18/202,793 ~32:26/05/2023
 2025/10252 ~ Complete ~54:THERMAL MANAGEMENT OF BATTERY SYSTEMS ~71:CATERPILLAR INC., 100
 NE Adams Street, Peoria, United States of America ~72: REDDY, Suresh B.;SAKARAY, Umakanth;SELVEY,
 Dustin C.~ 33:US ~31:18/325,569 ~32:30/05/2023
 2025/10254 ~ Complete ~54:MUSCLE ACTIVITY MONITORING ~71:UNIVERSITY OF CAPE TOWN, Lovers
 Walk, Rondebosch, South Africa ~72: NICOLLS, Fred;PAINE, Stephen;PATEL, Amir;TSENGWA, Kukhokuhle~
 33:GB ~31:2309291.9 ~32:20/06/2023
 2025/10205 ~ Provisional ~54:WIRELESS SPEAKER SYSTEM WITH AI-ENHANCED MULTI-SPEAKER REAL-
 TIME TRANSLATION, SPATIAL AUDIO, AND HANDS-FREE COMMUNICATION ~71:Ahmed Waseef Saib, 24
 Park Avenue, Desainager, South Africa ~72: Ahmed Waseef Saib~
 2025/10213 ~ Complete ~54:LOW-DISTURBANCE DEEP-WATER SEDIMENT SAMPLING DEVICE ~71:Henan
 University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province,
 467041, People's Republic of China ~72: HAO Minghui;LI Weiuyu;LIU Mei;LU Yizhen;ZHANG Yiting;ZHEN
 Wenhuan~
 2025/10256 ~ Provisional ~54:ELEPHANT'S WATER FILTER AND TOURISM ~71:HILTON BRIAN THOMAS,
 309 THORA COURT, KITE STR, HORISONS, South Africa ~72: HILTON BRIAN THOMAS ~
 2025/10217 ~ Complete ~54:METHOD AND APPARATUS FOR THE BENEFICIATION OF ORE ~71:Fortescue
 Ltd, Level 2, 87 Adelaide Terrace, EAST PERTH 6004, WESTERN AUSTRALIA, AUSTRALIA, Australia ~72:
 HAMILTON, Andrew Graham;LA ROSA, Gerald Michael;MACDONALD, Charles Lachlan;TURNER, Duncan
 William~ 33:AU ~31:2024903939 ~32:28/11/2024
 2025/10198 ~ Provisional ~54:SECURE READ-ONLY AUTHENTICATION FOR BANK ACCOUNT INSPECTION
 ~71:LUTEREK, January, Janusz, 6 LINKSIDE PARK, MOSSELBAY, SOUTH AFRICA, South Africa ~72:
 LUTEREK, January, Janusz~
 2025/10207 ~ Complete ~54:INTEGRATED SOFT POWER BALL THROWING AND TRAINING DEVICE
 ~71:Shandong University of Finance and Economics, No. 7366, Second Ring East Road, Lixia District, Jinan City,
 Shandong Province, People's Republic of China ~72: ZHANG Xuefei~
 2025/10220 ~ Complete ~54:ASSET IDENTIFICATION, REGISTRATION, TRACKING AND
 COMMERCIALIZATION APPARATUSES AND METHODS ~71:SCARSELLI, Bruno, 580 5th Avenue, Suite 1518,
 New York, United States of America ~72: SCARSELLI, Bruno~ 33:US ~31:62/679,814 ~32:02/06/2018
 2025/10223 ~ Complete ~54:PRODUCTION OF SYNTHETIC HYDROCARBONS ~71:ARCADIA EFUELS US
 INC., 4201 Bluffridge Drive, United States of America ~72: MILLER, Brendon Bruce;MOORS, Jeroen
 Harrie;TOLAN, Andrew John~ 33:US ~31:18/203,472 ~32:30/05/2023
 2025/10230 ~ Complete ~54:METHODS AND SYSTEMS FOR DETERMINING SETS OF SECOND
 ATTRIBUTES ASSOCIATED WITH RESPECTIVE FIRST ATTRIBUTES ~71:XERO LIMITED, 19-23 Taranaki
 Street, New Zealand ~72: FEDYASHOV, Victor~ 33:AU ~31:2023902046 ~32:28/06/2023
 2025/10235 ~ Complete ~54:IMPROVED HEATING PROFILE FOR INCUBATING A POULTRY EGG
 ~71:HatchTech Group B.V., Innovatielaan 3, DE KLOMP 6745 XW, THE NETHERLANDS, Netherlands ~72:
 METER, Tjitze~ 33:NL ~31:2035189 ~32:27/06/2023
 2025/10236 ~ Complete ~54:ANTI-VISTA ANTIBODY RNA OR NUCLEIC ACID CONJUGATES (ARCS OR
 ANCS), COMPOSITIONS CONTAINING, AND THERAPEUTIC USE THEREOF ~71:Lifordi Immunotherapeutics,
 Inc., 1 Medical Center Drive, HB7937, LEBANON 03756, NH, USA, United States of America ~72: BELL,
 Kierstin;CARRIERE, Catherine;CHILAMARI, Maheshwerreddy;DAY, Maria;HUANG, Xin;KUTA,
 Anna;ROTHSTEIN, Jay;SCHWERTNER, Nicholas;SEREGIN, Sergey;UZHACHENKO, Roman~
 33:US ~31:63/506,177 ~32:05/06/2023;33:US ~31:63/611,302 ~32:18/12/2023
 2025/10248 ~ Complete ~54:USE OF HAIR STEM CELLS IN WOUND HEALING ~71:Cutiss AG, Grabenstrasse
 11, SCHLIEREN 8952, SWITZERLAND, Switzerland ~72: KEMP, Paul;RONFARD, Vincent~
 33:US ~31:63/512,628 ~32:09/07/2023
 2025/10257 ~ Provisional ~54:BPA BLOCKER ~71:Radhe Stringer, P.O. Box 2157, Gauteng, Sandton,
 Sunninghill, 2 Eglin road, South Africa;Vasudev Stringer, P.O. Box 2157, Gauteng, Sandton, Sunninghill, 2 Eglin
 road, South Africa ~72: Radhe Stringer ;Vasudev Stringer ~

2025/10203 ~ Provisional ~54:ADJUSTABLE MOBILITY DEVICE ~71:CSIR, CSIR Campus, Meiring Naude Road, Brummeria, Pretoria 0184, SOUTH AFRICA, South Africa ~72: John Clark GIANI;MATADIN, Sunveer;de RONDE, Willis~

2025/10240 ~ Complete ~54:JAK INHIBITOR AND IL-6 INHIBITOR COMBINATIONS FOR USE IN THE TREATMENT OF AN INFLAMMATORY OR PROGRESSIVE DISEASE ~71:Istesso 2 Ltd, 3 Pancras Square, LONDON N1C 4AG, UNITED KINGDOM, United Kingdom ~72: FOSTER, Martyn Leslie;PATEL, Lisa~ 33:GB ~31:2309515.1 ~32:23/06/2023

2025/10211 ~ Complete ~54:A PLANTAR APPLICATION INSTRUMENT WITH A HEATING COMPONENT ~71:The Second Affiliated Hospital of Anhui University of Chinese Medicine, No. 300, Shouchun Road, Luyang District, Hefei City, Anhui Province, People's Republic of China ~72: Cao Rui;Ding Panpan;Pan Qi;Shi Feifei;Wang Yayu;Wu Liping;Zhang Mingli;Zhou Mengmeng~

2025/10221 ~ Complete ~54:TREATMENT OF MULTIPLE SCLEROSIS WITH ANTI-CD40L ANTIBODIES ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, Massachusetts, United States of America ~72: FARENC, Christine;SCHUMACHER, Fabienne;TRUFFINET, Philippe~ 33:EP ~31:23174655.3 ~32:22/05/2023;33:EP ~31:23174657.9 ~32:22/05/2023

2025/10232 ~ Complete ~54:CRYSTALLINE PHARMACEUTICALLY ACCEPTABLE SALT AND POLYMORPHIC FORM OF THE GLUTAMINYL CYCLASE INHIBITOR VAROGLUTAMSTAT ~71:VIVORYON THERAPEUTICS N.V., Weinbergweg 22, Germany ~72: HEISER, Ulrich~ 33:EP ~31:PCT/EP2023/066306 ~32:16/06/2023

2025/10233 ~ Complete ~54:BISPECIFIC ANTIGEN BINDING MOLECULE AND USE THEREOF ~71:Shanghai Qilu Pharmaceutical Research and Development Centre Ltd., Building 1, No. 576 Li Bing Road, No. 56 Faraday Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: LUO, Juan;QIAN, Hongliang;YANG, Liuqing~ 33:CN ~31:202310552022.8 ~32:16/05/2023

2025/10245 ~ Complete ~54:BIOETHANOL PRODUCTION FROM WASTE USING ENZYMES ~71:HALL, Philip, The Chart, Tumblefield Road, Stansted, SEVENOAKS KENT TN15 7PR, UNITED KINGDOM, United Kingdom ~72: HALL, Philip~ 33:GB ~31:2306704.4 ~32:05/05/2023

2025/10249 ~ Complete ~54:ARAMID FIBER FILTER PAPER AND PREPARATION METHOD AND USE THEREOF ~71:CHINA INSTITUTE FOR RADIATION PROTECTION (CIRP), No.102, Xuefu Street, Taiyuan, People's Republic of China;CNNP NUCLEAR POWER OPERATIONS MANAGEMENT CO., LTD, Building 25, Qinsan Factory, HaiYan Country, People's Republic of China;ZHEJIANG UNIVERSITY, No.866, Yuhangtang Road, Xihu District, Hangzhou, People's Republic of China;ZHUHAI FEIBO FILTRATION MEDIA CO., LTD., No.33, Fengshou Road, Jinwan District, People's Republic of China ~72: CHEN Lu;JIA Tinghao;KONG Haixia;LEI Shuixiong;LI Hongliang;LIU Tao;QIN Jianhua;SHANG Xianhe;WANG Jia;WANG Jingdai;XU Xinbo;YANG Yao~ 33:CN ~31:202411847866.6 ~32:16/12/2024

2025/10354 ~ Provisional ~54:AI-DRIVEN SYSTEM FOR SATELLITE TELEMETRY PROCESSING, ANOMALY DETECTION AND MULTILINGUAL ALERT DELIVERY VIA EDGE DEVICES ~71:Mrungisi Hlubi, 13 Rawson Street, Unit 5C, South Africa ~72: Mrungisi Hlubi~

2025/10224 ~ Complete ~54:TESTING DEVICE AND TESTING METHOD FOR MECHANICAL PROPERTIES OF SPRAY ANCHOR NET SUPPORT SYSTEM ~71:Northeastern University, NO. 3-11, Wenhua Road, Heping District, Shenyang, Liaoning Province, 110819, People's Republic of China ~72: Ankang XING;Ben LI;Boxue PANG;Hao JIANG;Jie XIE;Jikai GAO;Jingwen LIU;Kai ZHANG;Kunmeng LI;Lin CHEN;Ming CAI;Pengyuan HOU;Qiang WANG;Ruiqi GENG;Shuai XU;Xia-Ting FENG;Xin WANG;Yanling WANG;Yi JIANG;Zaobao LIU;Zhengming YANG;Zhiyuan ZHANG;Zhuo CHEN;Ziqiang ZENG~ 33:CN ~31:202310635123.1 ~32:31/05/2023;33:CN ~31:202311046399.2 ~32:18/08/2023

2025/10229 ~ Complete ~54:SYSTEMS, METHODS AND COMPUTER READABLE MEDIA FOR COMPARING STRUCTURED DATA ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: JACKA, Dan;PLAKSINA, Lena;PRETORIUS, Ilonke~ 33:AU ~31:2023901691 ~32:30/05/2023

2025/10231 ~ Complete ~54:SYSTEMS METHODS, AND COMPUTER PROGRAM PRODUCTS FOR CONFIGURABLE MAPPING OF DATA ELEMENTS ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: FAJARDO, Joseph;FONG, Jonathan;LYON, David;MAHENDRA, Manoj;PIENAAR, Louis;TAN, Kah Geh~ 33:AU ~31:2023901804 ~32:07/06/2023

2025/10238 ~ Complete ~54:A SYNTHETIC CYBERATTACK TOOL THAT USES A GENERATIVE ARTIFICIAL INTELLIGENCE COMPONENT ~71:Darktrace Holdings Limited, Maurice Wilkes Building, St John's Innovation Park, CAMBRIDGE CB4 0DS, UNITED KINGDOM, United Kingdom;HUMPHREY, Dickon, 2 Lents Way, CAMBRIDGE CB4 1UA, UNITED KINGDOM, United Kingdom ~72: BAZALGETTE, Timothy;BOYER,

John; HUMPHREY, Dickon; LAL, Jake; SELLARS, Philip ~ 33:US ~31:63/470,571
~32:02/06/2023; 33:US ~31:63/472,227 ~32:09/06/2023; 33:US ~31:18/678,451 ~32:30/05/2024
2025/10243 ~ Complete ~54: SOLID FORMS OF A MACROCYCLIC FARNESYLTRANSFERASE INHIBITOR
AND FORMULATIONS THEREOF, AND METHODS OF PREPARING AND USING THE MACROCYCLIC
COMPOUND AND ITS SOLID FORMS ~71: Kura Oncology, Inc., 4930 Directors Place, Suite 500, SAN DIEGO
92121, CA, USA, United States of America ~72: ANDRES, Patricia; BAKALE, Roger Paul; CHEN, Song; FERRER,
Catalina; LIU, Kenneth K.; LU, Yue; NEVES, Ana Rita; SHAN, Yun; SONG, Licheng; SUN, Xiufeng ~
33:IB ~31:2023/097389 ~32:31/05/2023
2025/10247 ~ Complete ~54: WOUND IRON CORE AND METHOD FOR MANUFACTURING SAME ~71: NIPPON
STEEL CORPORATION, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 1008071, JAPAN, Japan ~72:
MIZUMURA, Takahito; MOGI, Hisashi; TAKAHASHI, Masaru ~ 33:JP ~31:2023-090265 ~32:31/05/2023
- APPLIED ON 2025/12/01 -
2025/10288 ~ Complete ~54: MULTIFUNCTIONAL LIMB LINKAGE TRAINING BRACKET FOR BRAIN DISEASE
REHABILITATION PATIENTS ~71: THE SECOND AFFILIATED HOSPITAL OF ANHUI UNIVERSITY OF
CHINESE MEDICINE, NO. 300, SHOUCHUN ROAD, LUYANG DISTRICT, HEFEI CITY, People's Republic of
China ~72: CAO, Yi; JIANG, Na; WANG, Baoguo; ZHOU, Ting ~
2025/10303 ~ Complete ~54: REPLACEABLE SEAT FOR CONVERTIBLE CHECK VALVE ~71: CORNELL PUMP
COMPANY LLC, 16261 Southeast 130th Avenue, Clackamas, Oregon, 97015, United States of America ~72:
JORDAN RUSSELL WHITE; SETH JAMES ~ 33:US ~31:63/502,695 ~32:17/05/2023
2025/10306 ~ Complete ~54: DYNAMIC SERVICE INTERVAL SCHEDULING FOR MACHINE
~71: CATERPILLAR INC., 100 NE Adams Street, Peoria, United States of America ~72: OLSON,
Andrew; SCHNEIDER, Karl P. ~ 33:US ~31:18/205,072 ~32:02/06/2023
2025/10307 ~ Complete ~54: SYSTEM FOR OPERATING HYDRAULIC ACTUATORS ~71: CATERPILLAR INC.,
100 NE Adams Street, Peoria, United States of America ~72: CHENGALVARAYAN, Partiban; CHIDAMBARAM,
Jegatheesh; R., Prasana; SUBBIAH PREMA, Anand ~ 33:AU ~31:2023203455 ~32:02/06/2023
2025/10419 ~ Provisional ~54: FIX-IT HOME ~71: Alistair Murray Mahon, 26, South Africa ~72: Alistair Murray
Mahon ~
2025/10277 ~ Complete ~54: IMPLEMENTATION METHOD OF IMMERSIVE EMERGENCY DRILL PLATFORM
FOR HAZARDOUS WORKING CONDITION BASED ON WEB AND VR DEVICE, AND DRILL PLATFORM
~71: Daqing Anruida Technology Development Co., Ltd., Room A2101, 2102, 2103 and 2105, Building A, Daqing
E-commerce Industrial Park, No. 4 Xinxing Street, High-tech Zone, Daqing, People's Republic of China ~72:
Hongpeng ZHEN; Kaihui LI; Yongli YANG ~ 33:CN ~31:2025107687126 ~32:10/06/2025
2025/10285 ~ Complete ~54: PORTABLE WATER RETENTION TRANSPLANTATION DEVICE FOR
CERATOIDES LATENS ~71: INNER MONGOLIA ACADEMY OF AGRICULTURE & ANIMAL HUSBANDRY
SCIENCES, NO. 22, ZHAOJUN ROAD, YUQUAN DISTRICT, HOHHOT CITY, People's Republic of China; INNER
MONGOLIA AGRICULTURAL AND ANIMAL HUSBANDRY QUALITY AND SAFETY AND TESTING RESEARCH
INSTITUTE (INNER MONGOLIA AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCE AND TECHNOLOGY
ACHIEVEMENT TRANSFER AND TRANSFORMATION CENTER), NO. 22, ZHAOJUN ROAD, YUQUAN
DISTRICT, HOHHOT CITY, People's Republic of China ~72: CHANG, Hong; CHEN, Yang; GAO, Liqin; HA,
Sibateer; HUO, Zihua; JIN, Caixia; LI, Xue; LIANG, Dongliang; LIAO, Guangji; LIU, Sibao; LIU, Xinchao; NA,
Risui; SHAN, Jianguo; WANG, Haimei; WANG, Kang; WANG, Xinyou; XU, Jiayi; YANG, Shanshan; YE, Ruhan; YIN,
Guomei; YU, Jingming; ZHANG, Pujin; ZHAO, Yiwen ~
2025/10297 ~ Complete ~54: RADIOLABELED COMPOUND FOR USE IN A METHOD OF TREATING
CARBONIC ANHYDRASE IX POSITIVE DISEASES ~71: Debiopharm International S.A., Forum "après-demain",
Chemin Messidor 5-7, LAUSANNE 1006, SWITZERLAND, Switzerland ~72: ATTINGER, Antoine; GALETIC,
Ivana; MASSIERE, Frédéric; TACHMANOVA, Libuse ~ 33:EP ~31:23180304.0 ~32:20/06/2023
2025/10301 ~ Complete ~54: A METHOD OF GENERATING STERILE AND MONOSEX PROGENY
~71: CENTER FOR AQUACULTURE TECHNOLOGIES, INC., 8445 Camino Santa Fe, Suite 104, San Diego,
California, 92121-2635, United States of America ~72: JOHN TERRELL BUCHANAN; TAKESHI
UMAZUME; XAVIER CHRISTOPHE LAUTH ~ 33:US ~31:63/463,337 ~32:02/05/2023
2025/10304 ~ Complete ~54: INHIBITORS AND DEGRADERS OF PIP4K PROTEIN ~71: LARKSPUR
BIOSCIENCES, INC., 1 Canal Park Suite 210 Cambridge, Massachusetts 02141, United States of America ~72:
ANDREW GOOD; GUOSEN YE; KRISTA B GOODMAN; KRISTIN BROWN; MORGAN O'SHEA ~
33:US ~31:63/465,458 ~32:10/05/2023; 33:US ~31:63/611,367 ~32:18/12/2023; 33:US ~31:63/575,561
~32:05/04/2024

2025/10262 ~ Provisional ~54:QUANTUM EQUIVALENCE ENGINE: DISTRIBUTED REGULATORY TRUST LAYER FOR ESTABLISHING MATERIAL-GRADE EQUIVALENCE BETWEEN QUANTUM OUTCOMES AND PHYSICAL EXPERIMENTS ~71:Novitalis AG, 15 Burg strasse, Switzerland ~72: Annelie Stapela;Dayle Wheeler;Prof Dr Florian Turk~

2025/10266 ~ Provisional ~54:UNIVERSAL TRUST SUBSTRATE SYSTEM WITH DUAL DIGITAL AND PHYSICAL EVIDENCE VEINS FOR MULTI[1] JURISDICTION COMPLIANCE CERTIFICATION ~71:Novitalis AG, Burg str 15, Switzerland ~72: Annelie Stapela;Dayle Wheeler~

2025/10264 ~ Provisional ~54:CLOUD-BASED INTEGRATED LEARNER MANAGEMENT SYSTEM ~71:TSHWANE UNIVERSITY OF TECHNOLOGY, Staatsartillerie Street, Pretoria West, South Africa ~72: MUWANGUZI, Mark Ntume;OWOLAWI, Pius;STONE, Kyle~

2025/10293 ~ Complete ~54:A COMPLIANT STENT GRAFT ~71:ASCENSE MEDICAL GMBH, Modecenterstraße 22/D14, 1030, Austria ~72: MOORE, Michael~ 33:ZA ~31:2023/06493 ~32:26/07/2023

2025/10294 ~ Complete ~54:BROADLY NEUTRALIZING ANTIBODIES TARGETING THE CD4 BINDING SITE ON HIV ENV ~71:Universität zu Köln, Albertus-Magnus-Platz, KÖLN 50923, GERMANY, Germany ~72: GIESELMANN, Lutz;KLEIN, Florian~ 33:EP ~31:23178486.9 ~32:09/06/2023;33:EP ~31:23204223.4 ~32:17/10/2023;33:EP ~31:23206661.3 ~32:30/10/2023

2025/10260 ~ Provisional ~54:BUDDYAI - MULTILINGUAL EDTECH TOOL ~71:Tshaamano Mabuba, 29 Baker road, South Africa ~72: Tshaamano Mabuba~

2025/10259 ~ Provisional ~54:WATER BACKUP HUB ~71:Dietmar Pahl, 30 Collingwood Street, Kensington, South Africa ~72: Dietmar Pahl~

2025/10267 ~ Provisional ~54:SYSTEM AND METHOD FOR A CANONICAL ATTESTATION RECEIPT (NAR/1.0) WITH DETERMINISTIC DUAL CARRIAGE AND DISPUTE-READY EVIDENCE HOOKS ~71:Patrick Le Roux, 7 Sybille Road, South Africa ~72: Patrick Le Roux~

2025/10269 ~ Provisional ~54:SINUS PRODUCT ~71:Gutjwa Holdings (Pty) Ltd, Stand No. 255 B, Eastgate, South Africa ~72: MAGAGULA, Winnie Mneagetane~

2025/10275 ~ Complete ~54:METHOD FOR DETERMINING VOID CONTENT OF COARSE AGGREGATES IN ASPHALT MIXTURE BASED ON GYRATORY COMPACTOR ~71:Gansu Changlong Highway Maintenance Technology Research Institute Co., Ltd, 10th floor of Tower A, No. 1689, Yanbei Road, Chengguan Dist., Lanzhou, Gansu, People's Republic of China;Gansu Province Transportation Planning Survey & Design Institute Co., Ltd., No. 213, Jiuquan Road, Chengguan Dist., Lanzhou, Gansu, People's Republic of China ~72: Qingxia Cao;Xianglong Feng;Xiaoqi Yan;Zhengpeng Wei;Zhongliang Feng;Ziqi Li~ 33:CN ~31:202511338039.9 ~32:18/09/2025

2025/10312 ~ Provisional ~54:SABECONNECT DIGITAL INNOVATION HUB ~71:Hlumelo Mheshe, 14 De La Fontaine Avenue, South Africa ~72: Hlumelo Mheshe~

2025/10258 ~ Provisional ~54:A UNIFIED CONVERSATIONAL AND OFFLINE BIOMETRIC PAYMENT SYSTEM ~71:Noella Boseleka, 2 Fairfield Rd, The Hill, South Africa ~72: Noella Boseleka~

2025/10290 ~ Complete ~54:PRIMERS, KIT AND METHOD FOR IDENTIFYING WHETHER A SUGARCANE MATERIAL CONTAINS TRIPIDIUM ARUNDINACEUM CHROMOSOME 7 ~71:INSTITUTE OF NANFAN & SEED INDUSTRY, GUANGDONG ACADEMY OF SCIENCES, No. 10 Shiliugang Road, Chigang Street, Haizhu District, Guangzhou City, People's Republic of China ~72: DENG, Zuhu;GUO, Yirong;LI, Xueting;LING, Qiuping;WU, Jiayun;ZHANG, Nannan~ 33:CN ~31:202411476691.2 ~32:27/12/2024

2025/10273 ~ Provisional ~54:TOUCH-ACTIVATED ELECTROSTATIC HAIR STRAIGHTENING DEVICE ~71:Bongigugu Khuzwayo, 25 Greathead Road, South Africa ~72: Bongigugu Khuzwayo~

2025/10279 ~ Complete ~54:OCEAN ENVIRONMENT SIMULATION LABORATORY DEVICE AND METHOD FOR FLOATING ISLAND-BREAKWATER-MOORING SYSTEM ~71:Tianjin Sino-German University of Applied Sciences, No.2 Yashen Road, Haihe Education Park, Tianjin, 300350, People's Republic of China;Tianjin University, No.92 Weijin Road, Nankai District, Tianjin, 300072, People's Republic of China;Transport Planning and Research Institute Ministry of Transport, No.6 Shuguangxili Jia, Chaoyang District, Beijing, 100028, People's Republic of China ~72: FANG Zhuo;WANG Cong;ZANG Zhipeng;ZHANG Jinfeng~

2025/10284 ~ Complete ~54:TITANIUM-BASED HYDROXYAPATITE COMPOSITE COATING AND PREPARATION METHOD THEREFOR ~71:SHENZHEN GMCB BIOLOGICAL PRODUCTS DEVELOPMENT CO., LTD., Area B, 4th Floor, Zhigu, Changfeng Electric (Shenzhen) Co., Ltd. Plant, Liuxian 3rd Road, Xin'an Street, Bao'an District, Shenzhen, Guangdong 518100, People's Republic of China ~72: MENGBI CHEN;QUANRUI CHEN;ZHIHAO CHEN~ 33:CN ~31:202511335458.7 ~32:18/09/2025

2025/10295 ~ Complete ~54:HYDROPHOBIC AND HYDROPHILIC MODIFIED MALEATED NATURAL OILS, SALTS AND ITS AGRICULTURAL COMPOSITIONS AND METHODS OF USE ~71:ISP Investments LLC, 1011

Centre Road, Suite 315, WILMINGTON 19805, DE, USA, United States of America ~72: CHENAULT, Henry Keith;GHOSH, Mousumi;MOORE, Kiel Trenton;MUSA, Osama M.;PATEL, Drupesh~ 33:US ~31:63/463,454 ~32:02/05/2023

2025/10298 ~ Complete ~54:METHODS OF USING IL-18 FUSION PROTEINS ~71:Fuse Biotherapeutics Inc., 7A Henshaw Street, WOLBURN 01801, MA, USA, United States of America ~72: RABINOVICH, Brian;TAKIMOTO, Jeffrey;ZHOU, Xueyuan~ 33:US ~31:63/463,507 ~32:02/05/2023;33:US ~31:63/530,780 ~32:04/08/2023;33:US ~31:63/573,711 ~32:03/04/2024

2025/10300 ~ Complete ~54:DEVICES AND SYSTEMS HAVING A REMOVABLE CARTRIDGE FOR PREPARING A CHEMICAL SOLUTION FOR WATER TREATMENT ~71:Innovative Water Care, LLC, 1400 Bluegrass Lakes Parkway, ALPHARETTA 30004, GA, USA, United States of America ~72: BLANCHETTE, David W.;GAUTIER, Stephane;ROWHANI, Touraj~ 33:US ~31:63/499,502 ~32:02/05/2023

2025/10261 ~ Provisional ~54:HYBRID CROSS-LAMINATED TIMBER (CLT) PANEL WITH ENGINEERED WOOD CORE LAYERS ~71:UNIVERSITY OF PRETORIA, CORNER LYNNWOOD ROAD AND ROPER STREET HATFIELD, South Africa ~72: GROBBELAAR, Schalk;VAN DER MERWE, Johann Eduard;VAN DERHOVEN, Christo~

2025/10263 ~ Provisional ~54:QUANTUM CAUSALITY & REGULATORY TRUST SYSTEM FOR COMPLIANCE-CERTIFIED SUBSTITUTION OF PHYSICAL EXPERIMENTATION WITH DIGITAL COMPUTATION ~71:Novitalis AG, 15 Burg strasse, Switzerland ~72: Annelie Stapela;Dayle Wheeler~

2025/10265 ~ Provisional ~54:PAYWAVE ~71:Jack Aylward, 5 Red Duiker Crescent, Hawaan Forest Estate, South Africa ~72: Jack Aylward~

2025/10271 ~ Provisional ~54:SMART ALERT APP DISTRESS SOLUTION ~71:Bonga Ntabeni, 3884 Atlas Street, Lenasia South, South Africa ~72: Bonga Ntabeni~

2025/10276 ~ Complete ~54:APPLICATION OF BACILLUS AMYLOLIQUEFACIENS HMZ3 STRAIN IN CONTROLLING PLANT DISEASES ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: HAN Meizi;LIAO Chunli;LIU Dongxiao;LIU Xidie;WANG Lianzhe;WANG Xianyang;ZHAO Mei;ZHOU Jiangnan;ZHU Yutao~

2025/10280 ~ Complete ~54:INSECT PATHOGENIC NEMATODE SYMBIOTIC BACTERIUM FERMENTATION SUPERNATANT PREPARATION, PREPARATION METHOD AND APPLICATION THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: HOU Wenting;LIAO Chunli;ZHAO Zhe~

2025/10287 ~ Complete ~54:DIGITAL ONLINE EDUCATION PLATFORM FOR ART DESIGN AND FINE ARTS GENERAL BASIC COURSES ~71:LINYI VOCATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO. 1 FENJINTAI ROAD, YIHE NEW DISTRICT, LINYI CITY, People's Republic of China ~72: WANG, Na~

2025/10292 ~ Complete ~54:PROCESS AND SYSTEM FOR ELECTROLYTICALLY PRODUCING AN IRON-BEARING PRODUCT FROM IRON ORE PARTICLES ~71:FORTESCUE FUTURE INDUSTRIES PTY LTD, Ground Floor, 6 Bennett Street, EAST PERTH, Australia ~72: KANG, Colin Suk Mo;LAI, Qiwen;MOHAMMADZADEHMOGHADAM, Soheila;PAGE, Miles~

2025/10296 ~ Complete ~54:FUMIGATION APPARATUS AND METHOD OF FUMIGATION ~71:Universal Biosecurity Limited, Suite 7, 29 The Avenue Nedlands, 6009, WESTERN AUSTRALIA, AUSTRALIA, Australia ~72: GILL, Ben;MILLER, David;PUDDY, Tom;REN (Deceased), Yonglin~

2025/10299 ~ Complete ~54:WOUND IRON CORE AND METHOD FOR MANUFACTURING SAME ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 1008071, JAPAN, Japan ~72: MIZUMURA, Takahito;MOGI, Hisashi;TAKAHASHI, Masaru~ 33:JP ~31:2023-090247 ~32:31/05/2023

2025/10305 ~ Complete ~54:COMBINATION THERAPY FOR A RAS RELATED DISEASE OR DISORDER ~71:REVOLUTION MEDICINES, INC., 700 Saginaw Drive, Redwood City, California, 94063, United States of America ~72: BIANCA JENNIFER LEE;CAROLINE E WELLER;CRISTINA BLAJ;DAVID CHURCH MONTGOMERY;DAVID E WILDES;ELSA QUINTANA;IDA ARONCHIK;JINGJING JIANG;KYLE SEAMON;LILLIAN SEU;LINGYAN JIANG;MALLIKA SINGH;MARIE MENARD;MARK LABRECQUE;NATALIYA TOVBIS SHIFRIN;VIDYASIRI VEMULAPALLI;XING WEI;YINGYUN WANG;YONGXIAN ZHUANG;YU CHI YANG~ 33:US ~31:63/464,023 ~32:04/05/2023;33:US ~31:63/545,097 ~32:20/10/2023;33:US ~31:63/551,254 ~32:08/02/2024

2025/10302 ~ Complete ~54:ANCHOR BAR AND CARRIAGE STOP ASSEMBLY ~71:BALANCED BODY, INC., 5909 88th Street, Sacramento, California, 95828-1111, United States of America ~72: HARBIR SINGH;TRENT CANALES~ 33:US ~31:63/465,391 ~32:10/05/2023;33:US ~31:18/588,743 ~32:27/02/2024

2025/10313 ~ Provisional ~54:SYSTEM AND METHOD FOR AUTOMATED RECOVERY OF DROPPED WHATSAPP BUSINESS VOICE CALLS VIA PSTN CALLBACK ~71:Emmanuel Jacob Bonthuys, BreedeHuijs, Overhex Road, South Africa ~72: Emmanuel Jacob Bonthuys~

2025/10268 ~ Provisional ~54:GOLF TEACHING AND TRAINING AID ~71:Philip Beukes, 8 P Pulcra Street, South Africa ~72: Philip Beukes~

2025/10272 ~ Provisional ~54:X-STACKING-BRICK ~71:Ariel Marcus, 80 Sandler Road, South Africa ~72: Ariel Marcus;Ariel Marcus~

2025/10282 ~ Complete ~54:METHOD FOR DETECTING AND VISUALIZING ROAD DISEASES FROM UAV FLIGHT STRIP IMAGES ~71:Henan University of Urban Construction, Longxiang Avenue, Xinhua District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CHEN, Yao;GAO, Ziwen;LIU, Shenghang;LU, Chunyang;LU, Jiaming;LV, Huimin;QIAN, Haocheng;QIAO, Zizhen;SONG, Xinglong;WEN, Feng;WU, Dezhong;YIN, Shouqiang;ZHAO, Miaoxing~

2025/10286 ~ Complete ~54:COMPUTER DATA SECURITY ENCRYPTION AND PROTECTION SYSTEM BASED ON COMPUTER NETWORK ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: JIANG, Chunlin;LI, Shuliang;WU, Shilan;XI, Jun;YANG, Chunrong~

2025/10289 ~ Complete ~54:METHOD FOR IMPERMEABILIZING A TUNNEL COVERING FORMED BY PREFABRICATED ASHLARS AND PREFABRICATED ASHLAR WHICH CAN BE USED IN SUCH A METHOD ~71:MACCAFERRI TUNNELING S.R.L., Via Albricci Alberico 9, Italy ~72: Cristiano BONOMI~

33:IT ~31:102023000010494 ~32:24/05/2023

2025/10270 ~ Provisional ~54:360-DEGREE NOISE-CANCELLING SYSTEM USING MULTI-MICROPHONE ARRAYS, BEAMFORMING, AND ADAPTIVE FILTERING ~71:Bongigugu Khuzwayo, 25 Greathead Road, South Africa ~72: Bongigugu Khuzwayo~

2025/10274 ~ Provisional ~54:A TEMPORALLY DECOUPLED GEOMETRIC ALGEBRA COGNITIVE ARCHITECTURE WITH VECTOR-STATE CURIOSITY AND COMBINATORIAL PARSIMONY ~71:Benjamin Derick Spies, 27 Grace Crescent, Beacon Bay, South Africa ~72: Benjamin Derrick Spies~

2025/10278 ~ Complete ~54:DEMOLITION POSITIONING SYSTEM AND METHOD FOR AUTOMATICALLY FOLLOWING TARGET POINT ~71:JIANGSU XCMG STATE KEY LABORATORY TECHNOLOGY CO., LTD., No.26, Tuolanshan Road, Xuzhou Economic Development Zone, Xuzhou, Jiangsu, 221004, People's Republic of China ~72: Chuang Xu;Guiyu Li;Jun Li~ 33:CN ~31:2025111674839 ~32:20/08/2025

2025/10281 ~ Complete ~54:EXPANSION MECHANISM FOR INTELLIGENT LOW-VOLTAGE CIRCUIT BREAKER ~71:Henan Zhenglong Electrical Equipment Co., Ltd, Baizhai Village, Xushui Sub-district Office, Zhongyuan District, Zhengzhou City, Henan Province, 450042, People's Republic of China ~72: Geng Yanyan;Zhang Chaofeng~

2025/10283 ~ Complete ~54:SURVEILLANCE AND GUIDANCE SYSTEM BASED ON LINKAGE BETWEEN WEB-END THREE-DIMENSIONAL SCENE MODEL AND DOME CAMERA AND CONSTRUCTION METHOD THEREOF ~71:Daqing Anruida Technology Development Co., Ltd., Room A2101, 2102, 2103 and 2105, Building A, Daqing E-commerce Industrial Park, No. 4 Xinxing Street, High-tech Zone, Daqing, Heilongjiang, People's Republic of China ~72: Hongpeng ZHEN;Jun ZHANG;Yongli YANG~ 33:CN ~31:202511009771.1 ~32:22/07/2025

2025/10291 ~ Complete ~54:METHOD FOR RECYCLING MIXED-COLOUR POLYOLEFIN CONTAINERS ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, Austria ~72: Michael HEYDE~ 33:CH ~31:CH000543/2023 ~32:22/05/2023

- APPLIED ON 2025/12/02 -

2025/10417 ~ Provisional ~54:SECURE ELEMENT-BASED FIAT-TO-DIGITAL CURRENCY CONVERSION SYSTEM WITH MULTI REGIONAL BANKING INTERGRATION AND NON-CUSTODIAL SETTLEMENT ~71:FRANCOIS PIERRE JOUBERT, 521,20th Ave, Rietfontein, Pretoria,, South Africa ~72: FRANCOIS PIERRE JOUBERT~

2025/10320 ~ Provisional ~54:PERSONAL WELLNESS AND HYGIENE DEVICE ~71:PILLAY, Vinolin Regero, Unit C2 The Azure, 138 South Beach Road, LA MERCY, Durban 4399, Kwazulu Natal, SOUTH AFRICA, South Africa ~72: PILLAY, Vinolin Regero~

2025/10329 ~ Complete ~54:PRODUCTION EQUIPMENT FOR TWO-DIMENSIONAL PEROVSKITE MATERIALS DOPED WITH METAL IONS ~71:YULIN UNIVERSITY, NO. 51, CHONGWEN ROAD, YULIN CITY, People's Republic of China ~72: BI, Shiqing;XI, Xiaoyan~

2025/10334 ~ Complete ~54:COMPREHENSIVE DUST REMOVAL EQUIPMENT FOR ELECTRICAL AUTOMATION COMPONENT ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: PENG Meixiang;WAN Meifang;ZOU Guoping~

2025/10340 ~ Complete ~54:METHOD OF TREATING ULCERATIVE COLITIS WITH A COMBINATION OF ANTIBODIES TO IL-23 AND TNF ALPHA ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: HANS MOORE, Meredith;ROONEY, Terence;TERRY, Natalie A.;VETTER, Marion;XU, Yan;YEAGER, Barry Todd~ 33:US ~31:63/463,651 ~32:03/05/2023

2025/10343 ~ Complete ~54:ROCK DRILLING RIG AND METHOD OF HANDLING DRILL BITS ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: MÄNTTÄRI, Maunu~ 33:EP ~31:23202553.6 ~32:10/10/2023

2025/10349 ~ Complete ~54:TRANSFER DEVICE ~71:PULPEX LIMITED, Unit 1, Cambridge South, West Way, United Kingdom ~72: PROZESKY, Daniel George;TURNER, Adam Richard;WALLACE, Blaine Harold~ 33:GB ~31:2309870.0 ~32:29/06/2023

2025/10418 ~ Provisional ~54:MULTI-TECH GENERATOR ~71:RELEBOHILE MMALEHLOHONOLO MOSEA, 23 PARK AVENUE, JAN WILKENS STREET, BAYSWATER,, South Africa ~72: RELEBOHILE MMALEHLOHONOLO MOSEA~

2025/10328 ~ Complete ~54:LOW-TEMPERATURE PERFORMANCE TESTING DEVICE FOR LITHIUM BATTERIES ~71:LIAONING INSTITUTE OF SCIENCE AND TECHNOLOGY, NO. 176, XIANGHUAI ROAD, HIGH-TECH INDUSTRIAL DEVELOPMENT ZONE, BENXI CITY, People's Republic of China ~72: WU, Songjie~

2025/10333 ~ Complete ~54:RAS INHIBITORS FOR 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;ANNE V EDWARDS;CHRISTOPHER SEMKO;ELENA S KOLTUN;G. LESLIE BURNETT;JAMES CREGG;JENNIFER PITZEN;JOHN E KNOX~ 33:US ~31:63/184,618 ~32:05/05/2021

2025/10347 ~ Complete ~54:RECYCLING OF WASTE SOLID IONOMER COMPONENTS ~71:Johnson Matthey Public Limited Company, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: DUCHESNE, Denis;GORDON, Ross John;HART, Gareth~ 33:US ~31:63/516,152 ~32:28/07/2023;33:GB ~31:2312187.4 ~32:09/08/2023;33:GB ~31:2314101.3 ~32:15/09/2023

2025/10314 ~ Provisional ~54:A HELMET-MOUNTED AIR CURTAIN SYSTEM ~71:JONKER, Nicolaas Johannes van der Watt, 38 Kerk Street, STANDERTON 2430, Mpumalanga, SOUTH AFRICA, South Africa;PRINSLOO, Jacobus Nicolas, 21 Geelhout Street, SECUNDA 2302, Mpumalanga, SOUTH AFRICA, South Africa;PRINSLOO, Klaas, 9 Tamarisk Street, STANDERTON 2430, Mpumalanga Province, SOUTH AFRICA, South Africa;VAN DEN BERG, Thian, 5A Stander Street, STANDERTON 2430, Mpumalanga Province, SOUTH AFRICA, South Africa ~72: JONKER, Nicolaas Johannes van der Watt;PRINSLOO, Jacobus Nicolas;PRINSLOO, Klaas;VAN DEN BERG, Thian~

2025/10318 ~ Provisional ~54:SABEHEALTH DIAGNOSTICS INNOVATION ~71:Hlumelo Mheshe, 14 De La Fontaine Avenue, South Africa ~72: Asemi Ntsokolo;Hlumelo Mheshe~

2025/10325 ~ Complete ~54:HIGH-EFFICIENCY SULFIDATION RECOVERY PROCESS FOR HETEROPOLAR-TYPE ZINC OXIDE ORE ~71:KUNMING METALLURGY COLLEGE, No. 388 Xuefu Road, Kunming City, Yunnan Province, 650033, People's Republic of China ~72: Chunling YAO;Guoxiang JIANG;Hanping ZHANG;Mingxiao LI;Wenming YIN;Xing CHEN;Xingzhi ZHANG;Yingjuan LI~ 33:CN ~31:2025108691010 ~32:26/06/2025

2025/10327 ~ Complete ~54:INSOMNIA MERIDIAN ACUPOINT PRESSING INTENSITY SELF-CALIBRATION AND RHYTHMIC STIMULATION SYSTEM ~71:Sinotrans Medical Technology (Tianjin) Co.Ltd, No.170, Yougu Xinke Park, East of Jingfu Road, Pharmaceutical and Medical Device Industrial Park, Beichen Economic and Technological Development Zone, Tianjin, People's Republic of China;Tianjin Customs Industrial Product Safety Technology Center, No. 2, Dongwu Road, Airport Economic Zone, Binhai New Area, Tianjin, People's Republic of China;Tianjin International Travel Healthcare Center (Tianjin Customs Port Clinic), No.2-1126, Xingang Second Road, Tanggu, Binhai New Area, Tianjin, People's Republic of China ~72: Du Juan;Jin Huahua;Kong Zhiliang;Li Jing;Yu Zhirui;Zhang Jing~

2025/10335 ~ Complete ~54:FIXED DEVICE FOR ELECTRICAL AUTOMATION EQUIPMENT ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: PENG, Meixiang;WAN, Meifang;ZOU, Guoping~

2025/10351 ~ Complete ~54:COMPOUNDS, NANOPARTICLES, AND PHARMACEUTICAL COMPOSITIONS FOR THE TREATMENT OF DRUG ADDICTION ~71:BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA, Varner Hall, 3835 Holdrege Street, United States of America ~72: EDAGWA, Benson~ 33:US ~31:63/470,480 ~32:02/06/2023

2025/10324 ~ Complete ~54:FUNCTIONAL COMPOSITE ZINC MEMBRANE BASED ON CYPERUS ESCULENTUS EXTRACT, AND APPLICATION THEREOF IN BONE REPAIR ~71:The First Affiliated Hospital of Shihezi University, No. 107, Bei'er Road, Shihezi City, Xinjiang Uygur Autonomous Region, 832008, People's Republic of China ~72: HU, Zejun;LI, Qi;LI, Sennan;LI, Zhen;WANG, Chunwen;WEI, Wenhui~

2025/10326 ~ Complete ~54:MERIDIAN-ACUPOINT ELECTRODERMAL MAPPING AND CONSTANT-SENSATION STIMULATION DOSE CONTROL SYSTEM ~71:Sinotrans Medical Technology (Tianjin) Co.Ltd, No.170, Yougu Xinke Park, East of Jingfu Road, Pharmaceutical and Medical Device Industrial Park, Beichen Economic and Technological Development Zone, Tianjin, People's Republic of China;Tianjin International Travel Healthcare Center (Tianjin Customs Port Clinic), No.2-1126, Xingang Second Road, Tanggu, Binhai New Area, Tianjin, People's Republic of China ~72: Kong Zhiliang;Li Jing;Meng Yuan;Tian Hui;Wang Zhixin;Zhang Jing~

2025/10336 ~ Complete ~54:MINERAL PROCESSING METHOD FOR DEEP COPPER RECOVERY FROM COPPER SMELTING SLAG ~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO. 253, XUEFU ROAD, WUHUA DISTRICT, KUNMING CITY, People's Republic of China ~72: FENG, Qicheng;LIU, Dianwen;WANG, Han;WANG, Liang;WEI, Bihan;YANG, Zhu;YU, Bin;YU, Xingcai;ZHANG, Xin;ZHAO, Wenjuan~

2025/10341 ~ Complete ~54:METHOD OF TREATING CROHN'S DISEASE WITH A COMBINATION OF ANTIBODIES TO IL-23 AND TNF ALPHA ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: HANS MOORE, Meredith;ROONEY, Terence;TERRY, Natalie A.;VETTER, Marion;XU, Yan;YEAGER, Barry Todd~ 33:US ~31:63/463,658 ~32:03/05/2023

2025/10316 ~ Provisional ~54:PEST CONTROL ~71:INSECT SCIENCE (PTY) LTD, 9 Industria Street, New Industrial area, Tzaneen 0850, Limpopo Province, SOUTH AFRICA, South Africa ~72: BOOYSEN, Petrus Johannes Gerhardus;BOUWER, Marc Clement;STEYN, Vernon Murray;VAN GREUNEN, Divan Gerald~

2025/10321 ~ Provisional ~54:EXTRACTION OF POSTIONALLY DEPENDENT INFORMATION ~71:DESMOND LAURENCE SEEKOLA, 70 LEO AVE, South Africa ~72: DESMOND LAURENCE SEEKOLA~

2025/10322 ~ Complete ~54:DEEP LEARNING-BASED METHOD FOR ENGLISH SPEECH RECOGNITION ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: MA Jiankui;XU Lihua;YANG Faqing;ZHANG Xiangyu;ZHANG Yumeng~

2025/10330 ~ Complete ~54:FIXATION DEVICE FOR EMERGENCY TREATMENT OF ORTHOPEDIC LIMB TRAUMA ~71:THE SECOND AFFILIATED HOSPITAL OF ANHUI UNIVERSITY OF CHINESE MEDICINE (ANHUI ACUPUNCTURE AND MOXIBUSTION HOSPITAL), NO. 300 SHOUCHUN ROAD, LUYANG DISTRICT, HEFEI CITY, People's Republic of China ~72: LI, Qin;WANG, Baoguo~

2025/10332 ~ Complete ~54:FLEXIBLE RESTRICTED TARGET WAKE TIME OPERATION ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: BOON LOONG NG;RUBAYET SHAFIN~ 33:US ~31:63/355,422 ~32:24/06/2022;33:US ~31:63/399,907 ~32:22/08/2022;33:US ~31:18/339,916 ~32:22/06/2023

2025/10339 ~ Complete ~54:EXTRACELLULAR VESICLE COMPOSITIONS AND PREPARATION ~71:VIRGINIA TECH INTELLECTUAL PROPERTIES, INC., VIRGINIA TECH HOLTZMAN ALUMNI CENTER, 3RD FLOOR, 901 PRICES FORK ROAD, BLACKSBURG, VIRGINIA 24061, USA, United States of America ~72: DOGAN, Alan;GOURDIE, Robert, G.;JOURDAN, Linda, Jane;MARSH, Spencer~ 33:US ~31:63/465,073 ~32:09/05/2023;33:US ~31:63/624,637 ~32:24/01/2024;33:US ~31:63/640,825 ~32:30/04/2024

2025/10344 ~ Complete ~54:TREM2 AGONISTS ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BERCHTOLD, Stefan;BROM, Virginie Sacha;CHARPENTIER, Julie;DI FRANCESCO, Maria Emilia;GALLEY, Guido;GOBBI, Luca Claudio;GUBA, Wolfgang;HUMM, Roland Johann;IMHOFF, Marie-Paule;O'HARA, Fionn Susannah;PATINY-ADAM, Angélique;REGGIANI, Flore Marie Aude;ZEIDAN, Nicolas~ 33:EP ~31:23179957.8 ~32:19/06/2023;33:EP ~31:23211237.5 ~32:21/11/2023

2025/10348 ~ Complete ~54:METHOD OF RECYCLING WASTE IONOMER MEMBRANE ~71:Johnson Matthey Public Limited Company, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: BASRA, Shireen Kaur;BURDETT, Harriet;MCCREE-GREY, Jonathan~ 33:GB ~31:2313846.4 ~32:12/09/2023

2025/10352 ~ Complete ~54:MULTI-FACTOR ANALYSIS-BASED METHOD AND SYSTEM FOR PREDICTING SLAG PRODUCTION IN COAL MINE WATER JET CIRCULAR CUTTING ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 168, Taifeng Street, Sanhe Town, Tianjia'an District, Huainan, People's Republic of China ~72: GAO Kui;LI Chengcheng;REN Qihan;XU Zunyu;YUAN Benqing;ZHANG Zhigang~

2025/10317 ~ Provisional ~54:FINANCIAL TRANSACTION FACILITATION ~71:Muneer Mohamed, 6 Hayes Road, Wynberg, South Africa ~72: Muneer Mohamed~

2025/10337 ~ Complete ~54:DEVICE FOR SIMULATING HUMAN GASTROINTESTINAL DRUG ABSORPTION
~71:THE SECOND AFFILIATED HOSPITAL OF ANHUI UNIVERSITY OF CHINESE MEDICINE (ANHUI
ACUPUNCTURE AND MOXIBUSTION HOSPITAL), NO. 300 SHOUCHUN ROAD, LUYANG DISTRICT, HEFEI
CITY, People's Republic of China ~72: JIN, Yueping;LI, Tingting;LI, Xuejun;LIU, Kai;LIU, Yun;MA, Jun;PEI,
Bei;SONG, Biao;SUN, Qin;WANG, Xuncui;YANG, Qi;ZHANG, Cheng;ZHANG, Yang;ZHANG, Yi~
2025/10346 ~ Complete ~54:A METHOD OF REFINING AND RECYCLING IRIIDIUM ~71:Johnson Matthey Public
Limited Company, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72:
BUDD, Michael Edward;STANTON, Leigh~ 33:GB ~31:2313235.0 ~32:31/08/2023
2025/10331 ~ Complete ~54:TREATMENT OF AMD USING AAV2 VARIANT WITH AFLIBERCEPT
~71:ADVERUM BIOTECHNOLOGIES, INC., 100 Cardinal Way, Redwood City, California, 94063, United States
of America ~72: MARK BLUMENKRANZ;MEHDI GASMI~ 33:US ~31:62/351,234 ~32:16/06/2016
2025/10338 ~ Complete ~54:BUCKET SYSTEM ~71:ESCO GROUP LLC, 1631 NW Thurman Street, United
States of America ~72: CLARKE, Rodney, K;HYDE, Steven, D.;QIAN, Junbo~ 33:US ~31:63/466,610
~32:15/05/2023
2025/10345 ~ Complete ~54:TAIL ASSEMBLY FOR A GUIDED AND FIN-STABILIZED PROJECTILE
~71:Leonardo S.p.A., Piazza Monte Grappa, 4, ROMA 00195, ITALY, Italy ~72: BERSANO,
Gianluca;CUCCOLINI, Andrea;LEONARDI, Ugo;PELLEGRI, Mauro~ 33:IT ~31:102023000008817
~32:04/05/2023
2025/10420 ~ Provisional ~54:FIX-IT AUTOMOTIVE ~71:Alistair Murray Mahon, 26 Halifax Street, South Africa
~72: Alistair Murray Mahon~
2025/10421 ~ Provisional ~54:FIX-IT HEALTH & WELLNESS ~71:Alistair Murray Mahon, 26 Halifax Street, South
Africa ~72: Alistair Murray Mahon~
2025/10315 ~ Provisional ~54:AN AUTONOMOUS AREA-WARNING LIGHT APPARATUS ~71:JONKER,
Nicolaas Johannes van der Watt, 38 Kerk Street, STANDERTON 2430, Mpumalanga, SOUTH AFRICA, South
Africa;PRINSLOO, Jacobus Nicolas, 21 Geelhout Street, SECUNDA 2302, Mpumalanga, SOUTH AFRICA, South
Africa;PRINSLOO, Klaas, 9 Tamarisk Street, STANDERTON 2430, Mpumalanga Province, SOUTH AFRICA,
South Africa ~72: JONKER, Nicolaas Johannes van der Watt;PRINSLOO, Jacobus Nicolas;PRINSLOO, Klaas~
2025/10319 ~ Provisional ~54:GOAL VISUALISATION TOOL ~71:MARKON WORLDWIDE (PTY) LTD, Plot 260,
55 Sea Cottage Drive, Randjesfontein, South Africa ~72: KESHWAR Jerome Neil~
2025/10323 ~ Complete ~54:ROAD SAFETY WARNING SYSTEM BASED ON INTELLIGENT CONNECTED
TRANSPORTATION SYSTEM ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng
District, Pingdingshan, Henan Province, 467041, People's Republic of China ~72: CAO Yuhao;LI Rongrong;LIAO
Zengxiang;LIU Lihua;SHI Taohong;SHI Xinhang;SUN Zhaoyu;ZHAO Jianfeng~
2025/10342 ~ Complete ~54:STAPLED PEPTIDES AND METHODS THEREOF ~71:Parabilis Medicines, Inc., 30
Acorn Park Drive, CAMBRIDGE 02140, MA, USA, United States of America ~72: HAN, Xinwei;HUROV, Jonathan
Barry;MARTINOT, Theodore Anael;ORFORD, Keith William;SI, Yaguang;YU, Lihua~ 33:US ~31:63/471,492
~32:06/06/2023;33:US ~31:63/510,357 ~32:26/06/2023
2025/10350 ~ Complete ~54:DETECTION OF TUMOR-DERIVED NUCLEIC ACIDS USING RED BLOOD CELLS
~71:THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, 3600 Civic Center Boulevard, 9th Floor,
Philadelphia, Pennsylvania, 19104, United States of America ~72: JEFFREY THOMPSON;NILAM
MANGALMURTI~ 33:US ~31:63/500,136 ~32:04/05/2023;33:US ~31:63/636,309 ~32:19/04/2024
2025/10353 ~ Provisional ~54:SYSTEM MEDICAL AID AND INSURANCE BANKING ~71:GEORGE SELLO
MARIPANE, 11686 MATLHARE STREET, MAMELODI EAST, South Africa ~72: GEORGE SELLO MARIPANE
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- APPLIED ON 2025/12/03 -
2025/10355 ~ Provisional ~54:FIBER OPTIC POSITIONING SYSTEM AND METHOD ~71:SADEH, Mickael, 74
Barnet Street, South Africa ~72: VELDSMAN, Andre~
2025/10358 ~ Provisional ~54:AN APPARATUS FOR IGNITING COMBUSTIBLE MATERIAL ~71:VERMAAK,
Tommy Gerhardus, Plot 34, Road 6, ELOFF-DELMAS 2211, Mpumalanga, SOUTH AFRICA, South Africa ~72:
VERMAAK, Tommy Gerhardus~
2025/10359 ~ Provisional ~54:TENSIONER ~71:NEMTEK (PTY) LTD, 206 Boundary Park, Cnr. Malibongwe &
Epsom Avenue, Northriding, South Africa ~72: MANIOUDAKIS, Nicolas~
2025/10365 ~ Complete ~54:AN ASSEMBLY CONSTRUCTION METHOD FOR A COLLECTOR LINE TOWER
~71:CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING BUREAU GROUP CO., LTD., No. 32,
Zhonghuan West Road, Binhai New Area Pilot Free Trade Zone, Tianjin, 300000, People's Republic of
China;THE 5TH ENGINEERING CO., LTD. OF CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING

BUREAU GROUP, No. 1000, Middle Section of Shulong Avenue, Xindu Street, Xindu District, Chengdu, People's Republic of China ~72: An Haitao;He Shimei;Min Zhiwei;Qi Haigang;Shi Hongchao;Xu Yang;Zhang Minggang;Zhao Pan~ 33:CN ~31:202510311085.3 ~32:17/03/2025

2025/10370 ~ Complete ~54:GLUE SCRAPING AND SHOVELING TOOL ~71:Dujin Zheng, Group 5, Liangpo Village, Liangyuan Township, Leiyang City, Hunan Province, People's Republic of China ~72: Dujin Zheng~ 33:CN ~31:202522460980.X ~32:20/11/2025

2025/10374 ~ Complete ~54:GENE EDITING OPERATION AUXILIARY PLATFORM FOR MULTIPAROUS BREEDING OF SHEEP ~71:Institute of Animal Husbandry and Veterinary Science, Xizang Academy of Agricultural and Animal Husbandry Sciences, No. 56, Cisongtang East Road, Duodi Township, Chengguan District, Lhasa City, XiZang Autonomous Region, 850000, People's Republic of China ~72: Langda Suo;Mengjun Liu;Xinyan Chen~

2025/10377 ~ Complete ~54:SECONDARY CONVEYOR BELT CLEANER ~71:BRELKO PATENTS (PTY) LTD, Reuven Extension 1, 44 Chambers Street, Booyens, South Africa ~72: CHRISTIAN, Paul~

2025/10384 ~ Complete ~54:COMPOSITION COMPRISING CARVACROL AND TERPINEN-4-OL FOR USE IN THE TREATMENT OF SKIN, MUCOSAL AND SYSTEMIC CONDITIONS ~71:RECKITT BENCKISER HEALTH LIMITED, 103-105 Bath Road, Slough, United Kingdom ~72: BANERJEE, Sagarika;SEO, Jin~ 33:US ~31:63/499,800 ~32:03/05/2023;33:GB ~31:2309030.1 ~32:16/06/2023

2025/10388 ~ Complete ~54:LOWER POWER WAKE-UP SIGNAL PAGING ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KAIKKONEN, Jorma, Johannes;KOSKINEN, Jussi-Pekka;WU, Chunli~

2025/10402 ~ Complete ~54:METHODS OF TREATING OR PREVENTING A COMPLICATION OF SICKLE CELL DISEASE ~71:CSL Innovation Pty Ltd, 655 Elizabeth Street, MELBOURNE 3000, VICTORIA, AUSTRALIA, Australia ~72: BELCHER, John Davis;BRECHMANN, Markus;GILLE, Andreas;LINDQVIST, Lisa Margareta;ROSSATO, Paolo;VERCELLOTTI, Gregory M.~ 33:US ~31:63/511,983 ~32:05/07/2023;33:US ~31:63/635,186 ~32:17/04/2024

2025/10423 ~ Provisional ~54:ITCHY HAIR RELIEF ~71:Swimenathen Pillay, 1828 Petra Street, South Africa ~72: Swimenathen Pillay~ 33:ZA ~31:A61Q 5/00 ~32:01/12/2025

2025/10412 ~ Complete ~54:GLASS GOB DELIVERY SYSTEM ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: KARL JOHNSTON;STEPHEN M GRAFF~ 33:US ~31:18/455,188 ~32:24/08/2023

2025/10422 ~ Provisional ~54:HUSTLE HUB ~71:Desiree Matlala, No 4 Myrisa, 56 Kings Avenue, South Africa ~72: Desiree Matlala~

2025/10521 ~ Provisional ~54:A PROTECTIVE AND AESTHETIC WRAP-AROUND WATER TANK COVER WITH SEPARABLE LID ~71:Travis Clarke, 35 10th Avenue, Edenburg, South Africa ~72: Travis Dylan Clarke~ 33:ZA ~31:N/A ~32:02/12/2025

2025/10360 ~ Complete ~54:EVIDENCE-BASED DATA MODELING METHOD FOR AROMATHERAPY DOSAGE DECISION-MAKING IN CANCER PATIENTS ~71:The Second Affiliated Hospital of Anhui University of Chinese Medicine (Anhui Provincial Hospital of Acupuncture and Moxibustion), No. 300, Shouchun Road, Hefei City, Anhui Province, 230001, People's Republic of China ~72: FANG Huijuan~ 33:CN ~31:202510541450.X ~32:28/04/2025

2025/10367 ~ Complete ~54:COMPOUND BREEDING METHOD FOR RICE, TYLORRHYNCHUS HETEROCHAETUS AND FROGS ~71:Yangjiang Polytechnic, No. 213 Dongshan Road, Jiangcheng District, Yangjiang City, Guangdong Province, 529500, People's Republic of China ~72: CHEN, Xinghan;FAN, Bin;LI, Qianying;LIANG, Minghui;LIANG, Qiyong;SI, Yuanyuan;SU, Jieyu;TAN, Xiaoming;TAO, Lingling;XU, Ruiwen;YANG, Wei;ZHANG, Xuemin~

2025/10369 ~ Complete ~54:PORTABLE WATER QUALITY SPECTROMETER WITH IOT WIRELESS TRANSMISSION FOR RAPID ANALYSIS ~71:SUZHOU UNIVERSITY, XUEFU AVENUE, YONGQIAO DISTRICT, SUZHOU CITY, People's Republic of China ~72: GONG, Wei;LIN, Manli;MIN, Ning;WANG, Fang;XU, Pan~

2025/10372 ~ Complete ~54:DETACHABLE CLASSIFICATION BOX FOR ACCOUNTING VOUCHERS OF MULTIPLE DEPARTMENTS IN INTERNATIONAL ENTERPRISES ~71:Ruichao Song, No. 588, Jiushui East Road, Licang District, Qingdao City, Shandong Province, 266510, People's Republic of China ~72: Ruichao Song~

2025/10379 ~ Complete ~54:TETHERED, HINGED CLOSURE WITH MODIFIED PRIMARY SLIT ~71:SILGAN WHITE CAP LLC, 1140 South 31st Street, Downers Grove, Illinois, 60515, United States of America ~72: RICHARD D LOHRMAN~ 33:US ~31:63/309,126 ~32:11/02/2022

2025/10382 ~ Complete ~54:IMPACT ROLLER, TRANSPORT SYSTEM AND METHOD OF ASSEMBLING AN IMPACT ROLLER ~71:RULLI RULMECA S.P.A., Via A. Toscanini, 1, Italy ~72: COSTA, Simone;PASTA, Alessandro~ 33:IT ~31:102023000009336 ~32:10/05/2023

2025/10395 ~ Complete ~54:PROCESS FOR PRODUCING CARBON NANO ONIONS ~71:ELEMENTAL ADVANCED MATERIALS, INC., 11603 A BRITTMORE PARK, HOUSTON, TX 77041, USA, United States of America ~72: BISHOP, Ian;PRESSWOOD, Ronald, G., Jr.~ 33:US ~31:63/465,689 ~32:11/05/2023

2025/10401 ~ Complete ~54:1,3,5(10),16-ESTRATETRAEN-3-YL ACETATE FOR USE IN IMPROVING PSYCHOMOTOR OR COGNITIVE PERFORMANCE ~71:VistaGen Therapeutics, Inc., 343 Allerton Avenue, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: ADLER, Reid G.;BAKER, Ross A.;MONTI, Louis~ 33:US ~31:63/470,933 ~32:04/06/2023

2025/10407 ~ Complete ~54:ROLLER TEMPERATURE MONITORING ~71:CATERPILLAR INC., 100 NE Adams Street, Peoria, United States of America ~72: HAKES, David J.;JOHANNSEN, Eric J.;TETZLOFF, Aaron M.~ 33:US ~31:18/207,049 ~32:07/06/2023

2025/10415 ~ Complete ~54:COMPOUND MICROBIAL AGENT AND USE THEREOF IN RESOURCE UTILIZATION OF KITCHEN GARBAGE ~71:BEIJING GOLDENWAY BIO-TECH CO., LTD., Room E109, Floor 1, Building 1, No. 12 Shangdi Xinx Road, Haidian District, Beijing, 100085, People's Republic of China ~72: FENGLING KAN;PENG LIU;QIAN MA;RIYUAN CHEN;XIAOGANG CAO;YAN YANG;YUANHUI YANG~ 33:CN ~31:202510961776.8 ~32:14/07/2025

2025/10357 ~ Provisional ~54:RECOVERY OF DESIRED METALS FROM DESIRED METAL ORES, SLAGS, AND/OR LEACHATES COMPRISING SUCH DESIRED METALS ~71:ARXO METALS (PTY) LTD., 2nd Floor, The Crossing, 372 Main Road, Bryanston,, SANDTON 2191, SOUTH AFRICA, South Africa;SALENE MANGANESE (PTY) LTD., 351 Main Road, BRYANSTON 2191, Gauteng Province, SOUTH AFRICA, South Africa ~72: BIJZET, Johannes Ferdinand;CHENNELLS, Peter Maurice;GERBER, Jan Hendrik;JENSCH, Julian;MAFIRI Motshale Mansell~

2025/10363 ~ Complete ~54:A METHOD FOR DETECTING ORGANIC CARBON CONTENT IN SHALE OIL AND GAS EXPLORATION ~71:Lu Kun, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: Han Yan;Lu Chunyang;Lu Kun;Pan Shangtao~

2025/10371 ~ Complete ~54:A METHOD FOR IMPROVING CROP YIELD AND CONTROLLING DISEASES AND PESTS TECHNICAL FIELD ~71:Gao Chunyang, No. 094, Unit 2, Building 13, No. 111 Zhengguang Road, Jinshui District, Zhengzhou City, Henan Province, People's Republic of China;Qiao Mu, No. 094, Unit 2, Building 13, No. 111 Zhengguang Road, Jinshui District, Zhengzhou City, Henan Province, People's Republic of China;Qiao Zijun, No. 094, Unit 2, Building 13, No. 111 Zhengguang Road, Jinshui District, Zhengzhou City, Henan Province, People's Republic of China ~72: Gao Chunyang;Qiao Mu;Qiao Zijun;Zhao Deyu~

2025/10373 ~ Complete ~54:A HIGH-EFFICIENCY PROBIOTIC ADMINISTRATION APPARATUS FOR ACCELERATING GROWTH IN SHEEP BREEDING ~71:Institute of Animal Husbandry and Veterinary Science, Xizang Academy of Agricultural and Animal Husbandry Sciences, No. 56, Cisongtang East Road, Duodi Township, Chengguan District, Lhasa City, XiZang Autonomous Region, 850000, People's Republic of China ~72: Mengjun Liu;Xinyan Chen~

2025/10389 ~ Complete ~54:STABILIZER COMPOSITION FOR IMMUNOGENIC COMPOSITIONS, STABILIZED IMMUNOGENIC COMPOSITIONS, METHODS AND APPLICATIONS THEREOF ~71:BIOLOGICAL E LIMITED, 18/1 & 3, India ~72: DATLA, Mahima;KANNACHARI, Harish;MANTENA, Narender Dev;MATUR, Ramesh Venkat;PERNAMALLUR, Sivakumar Ayyaswamy~ 33:IN ~31:202341043121 ~32:27/06/2023

2025/10396 ~ Complete ~54:CONSTRUCTION METHOD OF A CONCRETE INNER FORMWORK SUPPORTING SYSTEM FOR AN ULTRA-LARGE WIND TUNNEL DIFFUSION SECTION ~71:CHINA CONSTRUCTION SIXTH BUREAU SEVENTH CONSTRUCTION CO.,LTD, Room 303, No.28, Xunyuan Xili, Development Zone Binhai New Area, People's Republic of China ~72: CHE, Lilong;DONG, Bojun;FENG, Haoyu;MIAO, Honggang;WANG, Haiyan;XIE, Chuncheng;ZHANG, Chenchen;ZHANG, Shaogang;ZHANG, Xianjun~ 33:CN ~31:202411720604.3 ~32:28/11/2024

2025/10399 ~ Complete ~54:METHODS FOR ANALYZING A SAMPLE ~71:MESO SCALE TECHNOLOGIES, LLC., 1601 Research Blvd., United States of America ~72: GIZZIE, Evan;NANJAPPA, Deepak;RAHMAN, Khondaker;ROUTENBERG, David;SIGAL, George;TUCKER-SCHWARTZ, Alexander K.~ 33:US ~31:63/506,573 ~32:06/06/2023;33:US ~31:63/595,551 ~32:02/11/2023;33:US ~31:63/644,393 ~32:08/05/2024

2025/10409 ~ Complete ~54:DEUTERATED CAMPTOTHECIN COMPOUND, AND PREPARATION THEREFOR AND USE THEREOF ~71:SHANGHAI QILU PHARMACEUTICAL RESEARCH AND DEVELOPMENT CENTRE LTD., Building 1, No. 576 Li Bing Road, No. 56 Faraday Road, China (Shanghai) Pilot Free Trade Zone, Pudong

New Area, Shanghai, 201203, People's Republic of China ~72: CHEN JIN;JIYU JIN;WEI LV;WEIKANG TAO;YANG YANG;YING HUANG~ 33:CN ~31:202310506357.6 ~32:06/05/2023;33:CN ~31:202311533730.3 ~32:16/11/2023;33:CN ~31:202410535444.9 ~32:29/04/2024

2025/10361 ~ Complete ~54:CLOUD COMPUTING-BASED INTEGRATED MANAGEMENT METHOD FOR UNIVERSITY EDUCATIONAL DATA ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: LI Bo~

2025/10394 ~ Complete ~54:METHODS AND APPARATUSES FOR SELECTING A RANGING TECHNIQUE ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: BÁTORFI, Richárd;JIANG, Xiaolin;SHREEVASTAV, Ritesh~ 33:US ~31:63/465,997 ~32:12/05/2023

2025/10398 ~ Complete ~54:ANTI-EPIDERMAL GROWTH FACTOR RECEPTOR (EGFR) ANTIBODY-DRUG CONJUGATE AND USE THEREOF ~71:SHANGHAI HENLIUS BIOLOGICS CO., LTD., Room 617, Building 29, No. 1, Lane 618, Dingyuan Road, People's Republic of China;SHANGHAI HENLIUS BIOTECH, INC., Room 330, Complex Building, No. 222 Kangnan Road China (Shanghai) Pilot Free Trade Zone, People's Republic of China ~72: JIANG, Jiahao;SHAN, Yongqiang;SONG, Ge;SONG, Hongbin;ZHANG, Wentao~ 33:CN ~31:202310519224.2 ~32:09/05/2023;33:CN ~31:202311314455.6 ~32:10/10/2023

2025/10403 ~ Complete ~54:TREATMENT OF CORTICOSTEROID DEPENDENT ASTHMA WITH ANTI-TSLP ANTIBODY ~71:MedImmune, LLC, One MedImmune Way, GAITHERSBURG 20878, MD, USA, United States of America ~72: AMBROSE, Christopher Seabrook;COOK, William;MARTIN, Neil;PONNARAMBIL, Sandhia~ 33:US ~31:63/503,089 ~32:18/05/2023;33:US ~31:63/597,219 ~32:08/11/2023;33:US ~31:63/547,945 ~32:09/11/2023

2025/10408 ~ Complete ~54:PREPARATION OF PEPTIDE INHIBITOR OF INTERLEUKIN-23 RECEPTOR AND USE THEREOF ~71:XIZANG HAISCO PHARMACEUTICAL CO., LTD., Xingfu Jiayuan Economic Development Zone, Jieba Town, Naidong District, Lhoka, Tibet, 856099, People's Republic of China ~72: CHEN ZHANG;HAITAO HUANG;LEI CHEN;LEI LIU;PANGKE YAN;PINGMING TANG;YAO LI~ 33:CN ~31:202310522881.2 ~32:04/05/2023;33:CN ~31:202311022217.8 ~32:14/08/2023;33:CN ~31:202311193280.8 ~32:15/09/2023;33:CN ~31:202311512882.5 ~32:14/11/2023;33:CN ~31:202311710528.3 ~32:13/12/2023;33:CN ~31:202311834661.X ~32:28/12/2023;33:CN ~31:202410040688.X ~32:11/01/2024;33:CN ~31:202410158092.X ~32:04/02/2024;33:CN ~31:202410285970.4 ~32:13/03/2024

2025/10368 ~ Complete ~54:A METHOD FOR MEASURING THE IN-SITU POROSITY OF SHALE ~71:Lu Kun, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: Han Yan;Lu Chunyang;Lu Kun;Pan Shangtao~

2025/10375 ~ Complete ~54:COAL MINE WORKING FACE CORNER DIRECTIONAL ACID ETCHING WEAKENING PROCESS ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No.1 Daxue Road, Tongshan District, Xuzhou City, Jiangsu Province, 221116, People's Republic of China;Zhenglong Coal Industry Co., Ltd. Chengjiao Coal Mine, Baota Road, Chengguan Town, Yongcheng City, Shangqiu City, Henan Province, 476600, People's Republic of China ~72: KUANG Zhongwen;LI Bowen;LI Junmeng;LI Menghui;LI Shen;LI Xubin;LIU Hong;LIU Hongjie;MENG Xiang;TANG Hongqiang;WU Panxiao;XI Long;XIANG Yongheng~

2025/10376 ~ Complete ~54:PRIMARY CONVEYOR BELT CLEANER ~71:BRELKO PATENTS (PTY) LTD, Reuven Extension 1, 44 Chambers Street, Booyens, South Africa ~72: CHRISTIAN, Paul~

2025/10381 ~ Complete ~54:PASSIVE CLEANING SYSTEM FOR SOLAR PANEL ~71:Dr Saleem Basha Mohamed Sulaiman, Associate Professor in RIEU, University of Buraimi, PO Box 890, Al-Buraymi, 512 Al Buraimi, Oman;University of Buraimi, PO Box 890, Al-Buraymi, 512 Al Buraimi, Oman ~72: Dr Saleem Basha Mohamed Sulaiman~

2025/10383 ~ Complete ~54:COMPOSITIONS FOR USE IN TREATMENT OF ACNE ~71:SANOFI PASTEUR INC., 1 Discovery Drive, Swiftwater, United States of America ~72: ARNAUD BARBE, Nadege;CASIMIRO, Danilo;KARLSSON, Andreas;LEGASTELOIS, Isabelle;MISTRETTA, Noëlle;MOHAMED ROKBI, Bachra;RENAULD, Geneviève;TRAN, Khang;WU, Monica~ 33:US ~31:63/464,523 ~32:05/05/2023;33:EP ~31:23306076.3 ~32:29/06/2023;33:EP ~31:23306927.7 ~32:08/11/2023

2025/10386 ~ Complete ~54:USER EQUIPMENT CONFIGURED FOR CONDITIONAL HANDOVER WITH DUAL CONNECTIVITY ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: AWADA, Ahmad;GÜRSU, Halit Murat;KARABULUT, Umur;PAPA, Arled;RATOVELOMANANA, Frédéric;SELVAGANAPATHY, Srinivasan;STANCZAK, Jędrzej~ 33:IN ~31:202341033649 ~32:12/05/2023

2025/10390 ~ Complete ~54:SYSTEM AND METHOD FOR STORING AMMONIA ~71:AMMONIA AS, LYKKEDRANGVEIEN 54, 4639 KRISTIANSAND, NORWAY, Norway ~72: LYKKEDRANG, Ottar~ 33:NO ~31:20230532 ~32:05/05/2023

2025/10397 ~ Complete ~54:SELF-REGULATING SMALL WIND TURBINE GENERATOR SYSTEM AND METHOD ~71:MARSH, Daniel F, 717 . Guenther St, San Antonio, United States of America ~72: MARSH, Daniel F~

2025/10416 ~ Complete ~54:EXPRESSION-ADJUSTABLE ENGINEERED RNA MOLECULE ~71:RINUAGENE BIOTECHNOLOGY CO., LTD., Unit 201, Building 24, Zone C, Suzhou Biomedical Industrial Park (Phase II), 218 Sangtian Street , Suzhou Industrial Park , Suzhou Zone Of China (Jiangsu) Pilot Free Trade Zone, Suzhou, People's Republic of China;RINUAGENE INTERNATIONAL HK LIMITED, Suite 603 , 6/F., Laws Commercial Plaza, 788 Cheung ShaWan Road , Kowloon, People's Republic of China ~72: CHEN, Rui;DONG, Yijie;QI, Rui;ZHANG, Weiguo~ 33:CN ~31:PCT/CN2023/099512 ~32:09/06/2023;33:CN ~31:PCT/CN2023/121779 ~32:26/09/2023;33:CN ~31:202410711025.6 ~32:03/06/2024

2025/10356 ~ Provisional ~54:FOOTWEAR ~71:KIXI (PTY) LTD, 19 Centurion Drive, South Africa ~72: SHAHID, Usman~

2025/10362 ~ Complete ~54:APPLICATION OF TANSBINONE IIA AND SALVIANOLIC ACID B IN TREATMENT OF CHOLESTASIS-INDUCED LIVER FIBROSIS BY REGULATING METHYLTRANSFERASE-LIKE PROTEIN 7A (METTL7A)-NA+/TAUROCHOLATE COTRANSPORTING POLYPEPTIDE (NTCP) PATHWAY ~71:Southwest Medical University, No.1 Xianglin Road Section 1, Longmatan District, Luzhou, Sichuan, 643000, People's Republic of China ~72: BAI, Xiaoqin;GUO, Yuanbiao;LIU, Jinbo;LIU, Lvye;OU, Yang;SUN, Yueshan;YANG, Yujie;ZHANG, Xiqian;ZHOU, Zijun~ 33:CN ~31:202511512081.8 ~32:22/10/2025

2025/10366 ~ Complete ~54:SYSTEM FOR AND METHOD OF DISPENSING, CUTTING, AND REELING ROLLED SHEET MATERIALS ~71:KHAN, Faadil, R11 Remhoogte Road, Skeerpoort, South Africa ~72: KHAN, Faadil~

2025/10378 ~ Complete ~54:MUTUAL INDUCTIVE MEASUREMENTS AND APPLICATIONS ~71:AZOTEQ HOLDINGS LIMITED, c/o Spyrou Kyprianou Avenue 20, Chapo Central, Cyprus ~72: BRUWER, Frederick Johannes;RADEMAN, Marco Wiehann~ 33:ZA ~31:2024/09365 ~32:09/12/2024

2025/10385 ~ Complete ~54:CONFIGURED GRANTS FOR SIDELINK POSITIONING ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KEATING, Ryan;KESHAVAMURTHY, Prajwal;KUCERA, Stepan;SAHIN, Taylan~ 33:US ~31:63/465,862 ~32:11/05/2023

2025/10387 ~ Complete ~54:IMPROVED PHYSICAL DOWNLINK CONTROL CHANNEL (PDCCH) ORDERED PHYSICAL RANDOM-ACCESS CHANNEL (PRACH) TRANSMISSION IN LOWER-LAYER TRIGGERED MOBILITY (LTM) ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: AWADA, Ahmad;GOYAL, Sanjay;KAKKAVAS, Anastasios;KARABULUT, Umur;KARIMIDEHKORDI, Ali;KOSKELA, Timo;SPAPIS, Panagiotis~ 33:US ~31:18/316,144 ~32:11/05/2023

2025/10392 ~ Complete ~54:COMPOSITIONS AND METHODS FOR AGRI-INPUTS AND USES THEREOF ~71:TIDAL VISION PRODUCTS, 3710 IRONGATE ROAD, BELLINGHAM, WA 98226, USA, United States of America ~72: CHENG, Yuan;DIMEGLIO, Anthony;HAMMILL, Kevin;MAHENDER;MAL, Prakash;RALIYA, Ramesh~ 33:IN ~31:202311032522 ~32:08/05/2023;33:US ~31:63/501,190 ~32:10/05/2023

2025/10393 ~ Complete ~54:A VIEWING OPTIC WITH DIGITAL IMAGE CAPTURE FUNCTION ~71:SHELTERED WINGS, INC. d/b/a VORTEX OPTICS, ONE VORTEX DRIVE, BARNEVELD, WI 53507, USA, United States of America ~72: CLERMONT, Todd~ 33:US ~31:63/501,459 ~32:11/05/2023

2025/10400 ~ Complete ~54:LYMPHOTOXIN BETA RECEPTOR AGONIST BINDING PROTEINS ~71:Amgen Inc., ONE AMGEN CENTER DRIVE, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: CASE, Ryan Benjamin;FOLTZ, Ian Nevin;GARCES, Fernando;GONG, Danyang;LAI, Chin-Wen;NOUBADE, Rajkumar;TINBERG, Christine Elaine;WANG, Hong Yu;ZHANG, Jun~ 33:US ~31:63/472,565 ~32:12/06/2023

2025/10405 ~ Complete ~54:COMBINATION OF CAPIVASERTIB, A CDK4/6 INHIBITOR AND FULVESTRANT FOR USE IN THE TREATMENT OF BREAST CANCER ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: BARRY, Simon;DE BRUIN, Elza;FOXLEY, Andrew;MCDONOUGH, Amy;SCHIAVON, Gaia~ 33:US ~31:63/500,348 ~32:05/05/2023;33:US ~31:63/568,170 ~32:21/03/2024

2025/10414 ~ Complete ~54:MOLTEN GLASS TRANSPORTER ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: BRIAN BROZELL;CHARLES OBEE;JASON PICKLES;KARL JOHNSTON;STEPHEN M GRAFF;THOMAS KIRKMAN~ 33:US ~31:18/455,604 ~32:24/08/2023

2025/10364 ~ Complete ~54:SOUND-INSULATION BOARD FOR INTERIOR DECORATION AND PREPARATION METHOD THEREOF ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: FU Yongmei;LI Guofeng;LIU Pan;SONG Zhongxian;WANG Kai;XIE Wenhao~

2025/10391 ~ Complete ~54:TREATMENT OF FOOD PRODUCTS ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: CRYAR, Brandon;DANKERT, John, R.;JOHNSON, Andrea~ 33:EP ~31:23173129.0 ~32:12/05/2023

2025/10404 ~ Complete ~54:EVOLVED AND ENGINEERED PRIME EDITORS WITH IMPROVED EDITING EFFICIENCY ~71:President and Fellows of Harvard College, 17 Quincy Street, CAMBRIDGE 02138, MA, USA, United States of America;The Broad Institute, Inc., 415 Main Street, CAMBRIDGE 02142, MA, USA, United States of America ~72: DOMAN, Jordan Leigh;LIU, David R.;PANDEY, Smriti~ 33:US ~31:63/503,892

~32:23/05/2023;33:US ~31:63/506,026 ~32:02/06/2023;33:US ~31:63/508,616

~32:16/06/2023;33:US ~31:63/510,078 ~32:23/06/2023;33:US ~31:63/596,006 ~32:03/11/2023

2025/10410 ~ Complete ~54:MOLTEN GLASS GOB DELIVERY GUIDE ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: KARL JOHNSTON;PETER SEVERSON~ 33:US ~31:18/455,199 ~32:24/08/2023

2025/10413 ~ Complete ~54:MOLTEN GLASS DELIVERY FUNNEL WITH GAS PERMEABLE CONDUIT ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: STEPHEN M GRAFF~ 33:US ~31:18/458,138 ~32:29/08/2023

2025/10569 ~ Provisional ~54:SMART SECURE CHARGING KIOSK AND MOBILE CHARGING TROLLEY SYSTEM ~71:Khano Ramabulana, House no.702 Scotia residence, South Africa ~72: Khano Ramabulana~

2025/10380 ~ Complete ~54:METHOD FOR PROCESSING MICROALGAE ~71:NELSON MANDELA UNIVERSITY, Room 1207, 12th Floor, Main Building Summerstrand Campus (South), University Way, Summerstrand, South Africa ~72: DUGMORE, Gary Morris;KAMPMAN, Carla~ 33:GB ~31:2417756.0 ~32:03/12/2024

2025/10406 ~ Complete ~54:LIPID-POLYMER HYBRID NANOPARTICLES ~71:Sahajanand Medical Technologies Limited, Sahajanand Estate, Wakhariawadi, Near Dabholi Char Rasta, Ved Road, SURAT 395004, GUJARAT, INDIA, India ~72: DARJI, Lalitkumar Rameshbhai;ENGINEER, Chhaya Babubhai;JARIWALA, Arpit Bhupendrabhai;PATRAVALE, Vandana Bharat;RAVAL, Ankur Jaykumar~ 33:IN ~31:202321039254 ~32:08/06/2023

2025/10411 ~ Complete ~54:MOLTEN GLASS TRANSPORT SYSTEMS AND METHODS ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: BRIAN BROZELL;CHARLES OBEE;JASON PICKLES;KARL JOHNSTON;STEPHEN M GRAFF;THOMAS KIRKMAN~ 33:US ~31:18/455,599 ~32:24/08/2023

- APPLIED ON 2025/12/04 -

2025/10434 ~ Provisional ~54:WATER-BASED SECURITY INK CONTAINING SOUTH AFRICAN GRAPHENE OXIDE AND LANTHANIDE-DOPED UPCONVERSION NANOPARTICLES FOR THE CREATION OF SMARTPHONE-READABLE PHYSICALLY UNCLONABLE OPTICAL SECURITY TAGS AND TAMPER-EVIDENT CONDUCTIVE TRACES, TOGETHER WITH ASSOCIATED MANUFACTURING AND AUTHENTICATION METHODS ~71:Sakhile Sibeko, 868 DUBE STREET, South Africa ~72: Sakhile Sibeko~

2025/10439 ~ Complete ~54:A CABLE LAYING AND INSTALLATION METHOD INSIDE A TOWER OF A LARGE WIND TURBINE ~71:CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING BUREAU GROUP CO., LTD., No. 32, Zhonghuan West Road, Binhai New Area Pilot Free Trade Zone, Tianjin, 300000, People's Republic of China;THE 5TH ENGINEERING CO., LTD. OF CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING BUREAU GROUP, No. 1000, Middle Section of Shulong Avenue, Xindu Street, Xindu District, Chengdu, People's Republic of China ~72: An Haitao;He Shimei;Min Zhiwei;Qi Haigang;Shi Hongchao;Xu Yang;Zhang Minggang;Zhao Pan~ 33:CN ~31:202510310532.3 ~32:17/03/2025

2025/10445 ~ Complete ~54:METHOD AND SYSTEM FOR ANALYZING ENERGY EFFICIENCY AND EXERGY LOSS OF COAL-FIRED POWER PLANT COUPLED WITH THERMOCHEMICAL THERMAL STORAGE ~71:Huazhong University of Science & Technology, No. 1037, Luoyu Road, Wuchang, Wuhan, People's Republic of China;Shanxi Gemeng Sino-US Clean Energy Research and Development Center, The Intersection of Zhengyang Street and Malianying Road, Taiyuan, People's Republic of China ~72: Lei Liu;Minghou Xu;Qian Sun;Shuai Zhang;Xiaowei Liu;Xudong Xu;Zijian Zhou~

2025/10450 ~ Complete ~54:METHOD FOR GENERATING CROSS-BORDER BUSINESS ENGLISH COPYWRITING BASED ON MACHINE LEARNING ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: MU Xiuli;YANG Faqing;YANG Nan;ZHANG Xingxing;ZHAO Minggang~

2025/10458 ~ Complete ~54:THERAPEUTIC METHODS AND COMPOSITIONS FOR TREATING MOVEMENT DISORDERS ~71:Vima Therapeutics, Inc., 300 Technology Square, 8th Floor, CAMBRIDGE 02139, MA, USA,

United States of America ~72: BECONI-BARKER, Maria G.;DUNN, Judith;RAVINA, Bernard Mayer;ROGGE, Mark~ 33:US ~31:63/464,409 ~32:05/05/2023;33:US ~31:63/615,960 ~32:29/12/2023
2025/10465 ~ Complete ~54:OVARIAN TISSUE CRYOPRESERVATION DEVICE AND METHOD THEREFOR
~71:Xiangya Hospital of Central South University, No. 87, Xiangya Road, Kaifu District, Changsha City, Hunan
Province, People's Republic of China ~72: Bin Xu;Jie Hao;Jing Zhao~ 33:CN ~31:2025112187498
~32:28/08/2025
2025/10432 ~ Provisional ~54:A COLLAPSIBLE SUPPORT ASSEMBLY ~71:Johannes Nell, 67 Wildevy street,
South Africa ~72: Johannes Nell~ 33:ZA ~31:20251201 ~32:01/12/2025
2025/10437 ~ Complete ~54:MODIFIED SLUDGE SUPERNATANT, PREPARATION METHOD, AND
APPLICATION ~71:Kunming University of Science and Technology, No.68 Wenchang Road, 121 Avenue,
Kunming, Yunnan Province, People's Republic of China ~72: Changtao WANG;Chuandong ZHAO;Xian XIE;Xiong
TONG;Yangsheng CAI;Yiran MA~
2025/10440 ~ Complete ~54:A FLOTATION COLLECTOR FOR PICROMERITE AND THE APPLICATION
~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 68, Wenchang Road, 121st Street,
Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Dan HUANG;Mobai YAO;Nan
YE;Songliang MA;Yiqi CUI~ 33:CN ~31:2025109168044 ~32:03/07/2025
2025/10446 ~ Complete ~54:ENGLISH VOCABULARY ASSOCIATION LEARNING METHOD BASED ON
KNOWLEDGE GRAPH ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng
District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: BAI Guofang;GUO
Yanli;XU Lihua;YANG Yan;ZHANG Tao~
2025/10455 ~ Complete ~54:LIGHTWEIGHT MOBILE CHARGING ROBOT ~71:Sun Yat-sen University, No. 135,
Xingang West Road, Haizhu District, Guangzhou City, Guangdong Province, 510275, People's Republic of China
~72: LI Songyuan;WANG Teng;WANG Yitong;ZHU Xiangwei~ 33:CN ~31:202511682827X ~32:15/11/2025
2025/10466 ~ Complete ~54:ELECTRIC TESTING SYSTEMS ~71:PRACTON POWER EQUIPMENT PTY LTD,
4 Canton Fairway, Greenfields, Australia ~72: MARTIN, Mark Jason;SLATER, Bradley Michael~
33:AU ~31:2023901349 ~32:04/05/2023
2025/10427 ~ Provisional ~54:GOLF TEE ~71:DELPORT, Pierre, 356 JQ Olifantshoek, Rustenburg, South Africa
~72: DELPORT, Pierre~
2025/10448 ~ Complete ~54:MACHINE LEARNING-BASED ENVIRONMENTAL DNA SPECIES
IDENTIFICATION METHOD ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue,
Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72:
CHANG Huihui;CHENG Huiying;HUANG Xuan;LIU Xinhui;WEI Pengfei;XIE Zhaohui;ZHAI Xuyang~
2025/10461 ~ Complete ~54:METHOD FOR DETERMINING THE PARTICLE SIZE DISTRIBUTION OF
GRANULAR MATERIAL IN A DELIVERY FLOW, AND MEASURING DEVICE ~71:FLSmidth A/S, Vigerslev Allé
77, VALBY 2500, DENMARK, Denmark ~72: TUDESHKI, Kian~ 33:DE ~31:10 2023 114 704.8 ~32:05/06/2023
2025/10472 ~ Complete ~54:POLYMORPHS AND THEIR USE FOR TREATING CANCER ~71:CAIRN
THERAPEUTICS, INC., 2500 W. 17th Street, Wilmington, Delaware, 19806, United States of America ~72: LISA
MCCRACKEN;NICO SETIAWAN;ROGER A RAJEWSKI~ 33:US ~31:63/507,954 ~32:13/06/2023
2025/10474 ~ Complete ~54:A METHOD OF INCREASING PHOTOSYNTHETIC CAPACITY IN A PLANT BY
USE OF A NADPH OR NADH WATER- FORMING OXIDASE ~71:OXFORD UNIVERSITY INNOVATION
LIMITED, Buxton Court, 3 West Way, United Kingdom ~72: BOUVIER, Jacques;KELLY, Steven~
33:GB ~31:2308791.9 ~32:13/06/2023
2025/10475 ~ Complete ~54:HERBICIDE COMPOSITION COMPRISING TERBUTHYLAZINE, MESOTRIONE
AND NICOSULFURON, AND DISPERSIBLE OIL SUSPENDING AGENT ~71:SHANDONG WEIFANG RAINBOW
CHEMICAL CO., LTD., No.03001 Lvjian Road, Binhai Economic Development Area, People's Republic of China
~72: LI, Zhiqing;LIU, Zhenmin;WANG, Jianwei;ZHAO, Baochen~ 33:CN ~31:202311676789.8 ~32:07/12/2023
2025/10426 ~ Provisional ~54:UNIVERSAL MODULAR SPLIT COUPLING SYSTEM FOR PIPE ADAPTATION,
REPAIR, BRANCHING AND FLANGE CONVERSION ~71:The Best Trust Registration IT001800/2017(C)), 127
Union Street, South Africa ~72: Jacques van der Merwe~
2025/10433 ~ Provisional ~54:QUANTUM BANTU INTELLIGENCE (QBI) INTERGRATED LEARNING AND
ASSESSMENT SYSTEM BASED ON THE N-JUBA MATHEMATICAL FRAMEWORK ~71:Camillo Zimba, 5386 5
Matoobane Street, Unit 5, Protea Glen, South Africa ~72: Camillo Zimba~
2025/10441 ~ Complete ~54:MEDIUM-DEEP GEOTHERMAL ENERGY CONTINUOUS CONSTANT
TEMPERATURE HEAT EXCHANGE DEVICE ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION,
Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China;SUZHOU

UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 99 Xuefu Road, Huqiu District, Suzhou City, Jiangsu Province, People's Republic of China ~72: LI Fengcui;LIU Rujia;LIU Chengyuan;LIU Shiyan~
2025/10452 ~ Complete ~54:CHARGING STATION BASE WITH ANTI-FALL DEVICE AND CHARGING STATION HAVING THE SAME ~71:SHENZHEN SOLING COMMUNICATION TECHNOLOGY CO,LTD, Chen Wenli Industrial Park, Xinke Street, Guangming District, Building A2,4th Floor, People's Republic of China ~72: LIU, Zeyang~
2025/10460 ~ Complete ~54:METHODS FOR TREATING DERMATOMYOSITIS WITH BREPOCITINIB ~71:Priovent Therapeutics, Inc., 1007 Slater Road, Suite 250, DURHAM 27703, NC, USA, United States of America ~72: FRANCO, Matthew Anthony;JOHNSON, Brendan;KHETARPAL, Nikhil;MUDD, Paul N.~
33:US ~31:63/506,265 ~32:05/06/2023;33:US ~31:63/603,280 ~32:28/11/2023;33:US ~31:63/574,382 ~32:04/04/2024
2025/10469 ~ Complete ~54:COMPOSITION FOR GROWTH MEDIA AND/OR CROP SOLUTIONS AND/OR PLANTS ~71:AGRO INNOVATION INTERNATIONAL, 18 Avenue, Franklin Roosevelt, 35400, Saint-Malo, France ~72: CÉCILE LE GUILLARD;FLORENCE CRUZ;QUENTIN DROGUE;ROZENN TREPOS;SYLVAIN PLUCHON~
33:FR ~31:FR2304640 ~32:10/05/2023
2025/10425 ~ Provisional ~54:REGOLITH COALESCENCE ~71:ENGINUIITY LABS (PTY) LTD., Unit 27 Minifactory, Limeroc Business Park, Knoppielaagte, Centurion, 0157, South Africa ~72: FREDERIK HENDRIK BERNARDUS PRETORIUS;MARCO DELPORT~
2025/10428 ~ Provisional ~54:DIGITAL DNA - IDENTITY, AUTHORSHIP, OWNERSHIP, ORIGIN, PROVENANCE ~71:Ruby-Jean de Vos, 19 Watsonia, South Africa ~72: Ruby-Jean de Vos~
2025/10454 ~ Complete ~54:A FACTORY CULTIVATION METHOD FOR AGARICUS BISPORUS BASED ON LIQUID SPAWN ~71:Institute of Edible Mushroom, Fujian Academy of Agricultural Sciences, Fuzhou, Fujian, China., No. 104, Pudang, Xindian Town, Jin'an District, Fuzhou City, Fujian Province, People's Republic of China;Tianshui Zhongxing Junye Technology Co., Ltd., National Agricultural Science and Technology Park, Maiji District, Tianshui City, Gansu Province, People's Republic of China ~72: Cai Zhixin;Chen Meiyuan;Chen Wenzhi;Dai Jianqing;Guo Zhongjie;Huo Xidong;Liu Guanqun;Liu Liang;Tao Jun;Zeng Zhiheng;Zheng Huiqing;Zhou Jinjun~ 33:CN ~31:2025101204983 ~32:25/01/2025
2025/10456 ~ Complete ~54:GLYCOSYLATION OF IMMUNOGLOBULIN SINGLE VARIABLE DOMAINS ~71:SANOFI, 46 avenue de la Grande Armée, France ~72: COST, Robert;NIEBEL, Björn;PARK, Sunghae;ZHOU, Qun;ZHOU, Yanfeng~ 33:EP ~31:23315172.9 ~32:08/05/2023;33:EP ~31:24315122.2 ~32:04/04/2024
2025/10464 ~ Complete ~54:SEPARATOR-DRUM SCRAPER-BLADE HOLDER ~71:GRAVITY MINING LTD, Unit 20 Cardrew Industrial Estate, Cardrew Way, United Kingdom ~72: MILDREN, Treve~ 33:GB ~31:2306801.8 ~32:09/05/2023
2025/10468 ~ Complete ~54:AN INTEGRATED MINE MONITORING SYSTEM ~71:INNOVATIVE MINING PRODUCTS (PTY) LTD, 109 Adcock Ingram Avenue, Aeroton, South Africa ~72: CROMPTON, Brendan;KNOX, Greig~ 33:ZA ~31:2023/05921 ~32:05/06/2023
2025/10471 ~ Complete ~54:FEEDER SYSTEM ~71:FOSECO INTERNATIONAL LIMITED, 165 Fleet Street, London, EC4A 2AE, United Kingdom ~72: CHRISTOF VOLKS~ 33:EP ~31:23177794.7 ~32:06/06/2023
2025/10424 ~ Provisional ~54:TEST SYSTEM ~71:ENGINUIITY LABS (PTY) LTD., Unit 27 Minifactory, Limeroc Business Park, Knoppielaagte, Centurion, 0157, South Africa ~72: FREDERIK HENDRIK BERNARDUS PRETORIUS;MARCO DELPORT~
2025/10431 ~ Provisional ~54:A MODULAR STRUCTURE ~71:CECCONELLO, Luigi Marco, APT G01, AL NASEEM A, AL BANDAR, AL RAHA BEACH, ABU DHABI, UAE, United Arab Emirates ~72: AL-SUBEIH, Abdel Rahman Mahmoud Ahmad;CECCONELLO, Luigi Marco~
2025/10436 ~ Complete ~54:A FLOTATION COLLECTOR FOR PICROMERITE AT HIGH TEMPERATURES AND THE APPLICATION ~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 68, Wenchang Road, 121st Street, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Dan HUANG;Nan YE;Yiqi CUI;Zhihui ZHU~ 33:CN ~31:2025109693973 ~32:15/07/2025
2025/10438 ~ Complete ~54:GEOGRAPHIC INFORMATION DATA ACQUISITION SUPPORT DEVICE ~71:Henan University of Urban Construction, Longxiang Campus, Henan University of Urban Construction, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: GAO, Ziwen;LI, Dan;LI, Huajia;LI, Shan;LIU, Zhan;LU, Chunyang;QIAN, Haocheng;SONG, Ziyang;WEN, Feng~
2025/10443 ~ Complete ~54:INTELLIGENT TRANSLATION METHOD FOR LEGAL PROVISIONS BASED ON MULTILINGUAL SEMANTIC MODEL ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: ZHANG Xiaojuan~

2025/10447 ~ Complete ~54:CITY TRAFFIC SMART GUARDRAIL WITH ANTI-TOPPLING FUNCTION
~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan, Henan
Province, 467041, People's Republic of China ~72: CAO Yuhao;LIU Lihua;SHI Xinhang;SONG Xinsheng;SUN
Danyang;SUN Zhaoyu;WANG Hao;WANG Xiaoxiao~

2025/10453 ~ Complete ~54:SNP LOCUS, PRIMER SET AND USE THEREOF ASSOCIATED WITH EGGSHELL
COLOUR INTENSITY ~71:NINGXIA UNIVERSITY, No. 489, Helan Mountain West Road, Xixia District, People's
Republic of China ~72: CHEN, Yafei;DENG, Zhazhao;GUO, Lei;JIANG, Qiufei;LIU, Weiping;MA, Lina;SHI,
Jinping;ZHANG, Juan;ZHANG, Kuiju;ZHOU, Ying;ZHU, Hongfang~

2025/10457 ~ Complete ~54:ANTI-PDL1 ANTIBODY-DRUG CONJUGATE AND USE ~71:SHANGHAI HENLIUS
BIOLOGICS CO., LTD., Room 617, Building 29, No. 1, Lane 618, Dingyuan Road, People's Republic of
China;SHANGHAI HENLIUS BIOTECH, INC., Room 330, Complex Building, No. 222 Kangnan Road China
(Shanghai) Pilot Free Trade Zone, People's Republic of China ~72: JIANG, Jiahao;SHAN, Yongqiang;SONG,
Ge;SONG, Hongbin;ZHANG, Wentao~ 33:CN ~31:202310513959.4
~32:09/05/2023;33:CN ~31:202311311898.X ~32:10/10/2023

2025/10463 ~ Complete ~54:METHOD FOR THE REAL-TIME MONITORING OF A DRINKING WATER
PRODUCTION PLANT; AND ASSOCIATED SYSTEM AND COMPUTER PROGRAM ~71:SUEZ SMART
SOLUTIONS, 38 rue du Président Wilson, France ~72: ENAULT, Jérôme;LORET, Jean-François;MALDONADO,
Thierry;ROBERT, Samuel~ 33:FR ~31:FR2305674 ~32:06/06/2023

2025/10467 ~ Complete ~54:INHIBITORS OF TREK (TWIK RELATED K⁺ CHANNELS) CHANNEL FUNCTION
~71:Ono Pharmaceutical Co., Ltd., 1-5, Doshomachi 2-chome, Chuo-ku, Osaka-shi, OSAKA 541-8526, JAPAN,
Japan;Vanderbilt University, 2201 West End Avenue, NASHVILLE 37240, TN, USA, United States of America
~72: ABE, Masahito;CHILDRESS, Elizabeth S.;ENGERS, Darren W.;GONDO, Naruhiro;HIROOKA,
Yasuo;KURATA, Haruto;LINDSLEY, Craig W.;MURRAY, Jacob H.;TANAKA, Motoyuki~ 33:IB ~31:2023/099983
~32:13/06/2023

2025/10430 ~ Provisional ~54:HAIR GROWTH OILS ~71:Swimenathen Pillay, 1828 Petra Street, South Africa
~72: Swimenathen Pillay~ 33:ZA ~31:Morjococo HGO 001 ~32:01/12/2025

2025/10435 ~ Complete ~54:KNOWLEDGE GRAPH-BASED CORRELATION ANALYSIS METHOD FOR
URBAN GREENING TASKS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District,
Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CAI Jing;CAI Yujie;LI Deying;LI
Qihong;LI Tianhao;LI Yajie;WANG Ruiwang;WANG Xiaohui;ZHANG Yao~

2025/10442 ~ Complete ~54:RAW MATERIAL STORAGE DEVICE FOR PROTEIN EXPRESSION AND
PREPARATION ~71:HUAINAN NORMAL UNIVERSITY, DONGSHANXI ROAD, TIANJIA'AN DISTRICT,
HUAINAN CITY, People's Republic of China ~72: HU, Kairang;JIANG, Cheng;LI, Yang;WANG, Mangmang~

2025/10449 ~ Complete ~54:INTELLIGENT CLASSIFICATION METHOD FOR ENGLISH EDUCATIONAL
RESOURCES BASED ON DEEP SEMANTIC NETWORK ~71:HENAN UNIVERSITY OF URBAN
CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic
of China ~72: LI Jindou;MU Xiuli;YANG Faping;ZHANG Xingxing;ZHAO Minggang~

2025/10462 ~ Complete ~54:ORE RESETTING PROCESS FOR COPPER LEACHING ~71:Ceibo Inc., Eliodoro
Yañez 2990, Edificio B, Piso 7, Comuna de Providencia, SANTIAGO 7510277, CHILE, Chile ~72: BRISO
RETAMALES, Alejandro Eduardo;GUAJARDO CONTRERAS, Nicole Stephanie;HERESI MILAD, Nélida
Emilia;ROMÁN ESPINOZA, Anselmo Enrique;URREJOLA SANTA MARÍA, Catalina;WERNER RATTO, Nicole
Andrea~ 33:US ~31:63/615,354 ~32:28/12/2023

2025/10470 ~ Complete ~54:PRODUCTION OF PHA USING PETROLEUM BY-PRODUCTS ~71:DANIMER
IPCO, LLC, 140 Industrial Boulevard, Bainbridge, Georgia, 39817, United States of America ~72: CAROL G
LEGGETT;ISAO NODA;PHILLIP VAN TRUMP~ 33:US ~31:63/509,819 ~32:23/06/2023

2025/10476 ~ Complete ~54:METHOD ~71:SANIA TX LTD, Waterfront Building, Manbre Wharf, Manbre Road,
United Kingdom ~72: BROWNSTONE, Robert;SMITH, Calvin~ 33:GB ~31:2306914.9 ~32:10/05/2023

2025/10429 ~ Provisional ~54:SYSTEM AND METHOD FOR DYNAMICALLY CALCULATING AND UPDATING
A PERSONALISED INFLATION INDEX USING REAL-TIME MICROECONOMIC, BEHAVIOURAL, AND
CONSUMPTION DATA ~71:KABELO DIALE, 7 COMET STREET, South Africa ~72: KABELO DIALE~

2025/10444 ~ Complete ~54:TEXT CLUSTERING-BASED METHOD FOR THEMATIC INDUCTION OF
INTERNATIONAL LAW PRECEDENTS ~71:Henan University of Urban Construction, Longxiang Avenue,
Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: ZHANG
Xiaojuan~

2025/10451 ~ Complete ~54:INTERNET OF THINGS-BASED DATA AGGREGATION METHOD FOR APPLIED
PSYCHOLOGY ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan

City, Henan Province, 467036, People's Republic of China ~72: FAN Ruilu;FU Xiangying;HUANG Yinhe;JIA Xun;XU Jingsheng~
 2025/10459 ~ Complete ~54:METHOD FOR SEPARATING AND PURIFYING HEAVY RARE EARTH ELEMENTS BY MEANS OF LIQUID/LIQUID EXTRACTION ~71:Rhodia Operations, 9, rue des Cuirassiers, Immeuble Silex 2, Solvay, LYON 69003, FRANCE, France ~72: BERGER, Clémence;ROLLAT, Alain~
 33:FR ~31:FR2304516 ~32:05/05/2023
 2025/10473 ~ Complete ~54:WIRELESS CHARGING OF DIFFERENT TYPES OF ELECTRIC VEHICLES ~71:CAPACTECH LIMITED, 19 Kingsmill Business Park, Chapel Mill Road, United Kingdom ~72: VARGAS-REIGHLEY, Dorian~ 33:EP ~31:23176229.5 ~32:30/05/2023;33:GB ~31:2317194.5 ~32:09/11/2023
 - APPLIED ON 2025/12/05 -
 2025/10480 ~ Provisional ~54:HEATED CATALYTIC DIESEL AND FUEL FILTER FOR IN-LINE CETANE ENHANCEMENT ~71:Neill Human, 11 Maggie Laubser, South Africa ~72: Neill Human~
 2025/10483 ~ Complete ~54:A PORTABLE HYGIENE AND HEALTH MONITORING DEVICE AND METHOD OF USE ~71:MAPHALLE, Tshegofatso Vusi, 137 Tamarind Street, Lotus Gardens, Pretoria West 0008, Gauteng, SOUTH AFRICA, South Africa ~72: MAPHALLE, Tshegofatso Vusi~ 33:ZA ~31:2025/01371 ~32:13/02/2025
 2025/10486 ~ Complete ~54:GEOLOGICAL EXPLORATION INSTRUMENT FOR MINERAL PROSPECTING ~71:Kunming Metallurgy College, No. 388, Xuefu Road, Kunming, Yunnan, People's Republic of China ~72: Jinliang Zhang;Jun Ma;Juqiong Deng;Mao Tan;Shili Wu;Xiaoliang Zhang;Xing Chen;Yang Liu;Yiming Wen;Yong Cheng;Yongfeng Lu~
 2025/10494 ~ Complete ~54:A REAL-TIME FEEDBACK ELBOW GUARD DEVICE FOR SPORTS ELECTROMYOGRAPHY SIGNALS ~71:Xinyu University, No. 2666, Yangguang Avenue, High-Tech Zone, Xinyu City, Jiangxi Province, People's Republic of China ~72: Huang Taibin;Li Ling;Liang Jing;Yang Zhiyu~
 2025/10497 ~ Complete ~54:ARRANGEMENT DESIGN METHOD FOR CIRCULAR GROUTING REINFORCEMENT BODIES WITH WATER-STOP REQUIREMENTS ~71:CHINA RAILWAY (SHANGHAI) INVESTMENT GROUP CO., LTD., Room 1905, Building 1, No. 898 Xiuwen Road, Minhang District, People's Republic of China;CHINA UNIVERSITY OF MINING AND TECHNOLOGY, No. 1 Daxue Road, Xuzhou, People's Republic of China ~72: Bai Jing;Cao Daoqing;Li Xin;Wang Minhang;Wang Wenying;Xia Kai;Xie Zilin;Xu Guoan;Xuan Yi;Zhang Bin~ 33:CN ~31:2025116259936 ~32:07/11/2025
 2025/10507 ~ Complete ~54:GLP-1/GIP DUAL, GLP-1/GCG DUAL AND GLP-1/GIP/GCG TRIPLE RECEPTOR AGONISTS ~71:SUN PHARMACEUTICAL INDUSTRIES LIMITED, Sun House, Plot No. 201 B/1 Western Express Highway, India ~72: BURADE, Vinod Sampatrao;DIXIT, Pankaj Vinodrao;GANDHI, Manish Harendraprasad;JIVANI, Chandulal Thakarshiibhai;JOSHI, Dhiren Rameshchandra;MARU, Alpeshbhai Balabhai;NAGARAJA, Ravishankara Madavati;NATARAJAN, Muthukumaran;PATELIYA, Bharatbhai Balabhai;SONI, Krunal Harishbhai;THENNATI, Rajamannar;TIWARI, Abhishek~ 33:IN ~31:202321039646 ~32:09/06/2023
 2025/10518 ~ Complete ~54:A SYSTEM AND METHOD FOR BIOMASS CARBON DIOXIDE SEQUESTRATION ~71:INTER EARTH PTY LTD, UNIT 11, LEVEL 3, 12 - 14 THELMA STREET, WEST PERTH, WA 6005, AUSTRALIA, Australia ~72: CARR, Howard~ 33:AU ~31:2023901354 ~32:05/05/2023
 2025/10479 ~ Provisional ~54:A TAMPER-EVIDENT, IRIDESCENT AUTHENTICATION STRIP WITH EMBEDDED LIGHT-REACTIVE MICRO-PATTERNS AND SECURE DIGITAL LINKAGE CODE FOR PRODUCT VERIFICATION ~71:Bheka mbonambi, 2556 greenfield avenue, South Africa;Sphamandla Fuweka, SS101 Griffiths Mxenge Highway, South Africa ~72: Bheka Mbonambi;Sphamandla Fuweka~ 33:ZA ~31:N/A ~32:04/12/2025
 2025/10487 ~ Complete ~54:SURVEYING DEVICE FOR COPPER-ORE GEOLOGICAL EXPLORATION ~71:Kunming Metallurgy College, No. 388, Xuefu Road, Kunming, Yunnan, People's Republic of China ~72: Donghao He;Jun Ma;Kaishan Lin;Ming Cheng;Xiangdong Niu;Xiaoliang Zhang;Xingwei Xu;Yiming Wen;Yong Cheng;Yongfeng Lu;Zhixian Zhong~
 2025/10495 ~ Complete ~54:A KIND OF UNDERWATER HUMAN-COMPUTER INTERACTION DISPLAY AND CONTROL DEVICE ~71:Kunming University of Science and Technology, No. 727, Jingming South Road, Chenggong District, Kunming City, Yunnan Province, People's Republic of China ~72: Hu Yin;Mei Yuelan~
 2025/10499 ~ Complete ~54:APPARATUS FOR CORRECTING STATE OF CHARGE USING MODULE-LEVEL OCV TABLE AND METHOD THEREOF ~71:Hyosung Heavy Industries Corporation, 119, Mapo-daero, Mapo-gu, SEOUL 04144, REPUBLIC OF KOREA, Republic of Korea ~72: BANG, Sung Eun;JU, Chang Yong;KWON, Han Yong~ 33:KR ~31:10-2025-0100162 ~32:24/07/2025

2025/10493 ~ Complete ~54:A WIND TURBINE GENERATOR SET WITH A LIFTING AND LOWERING DEVICE ~71:Hunan Institute of Engineering, No. 88 Fuxing East Road, Yuxiang District, Xiangtan City, Hunan Province, People's Republic of China ~72: Guoqiang Chen;Kexiang Wei;Qiao Liu;Weineng Huang;Zhou Zhou~

2025/10502 ~ Complete ~54:A METHOD FOR ENHANCING OIL RECOVERY FROM A SANDSTONE RESERVOIR THROUGH OPTIMIZED BRINE SALINITY ~71:Dr. Kuladip Sarma, Chief Chemist (CoEES), Centre Of Excellence For Energy Studies Oil India Limited, Guwahati, Assam - 781005, India;Dr. Nayan Medhi, Assistant Professor, Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Dr. Ranjit Dutta, General Manager (CoEES), Centre Of Excellence For Energy Studies Oil India Limited, Guwahati, Assam - 781005, India;Mr. Sanjeev Thakur, Chief Engineer-Projects, Oil India Limited (OIL), and Ph.D. Research Scholar in the Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India ~72: Dr. Kuladip Sarma;Dr. Nayan Medhi;Dr. Ranjit Dutta;Mr. Sanjeev Thakur~

2025/10504 ~ Complete ~54:DEVICE AND METHOD FOR DETERMINING CARBON CONTENT IN GRASSLAND LITTER SAMPLES ~71:Inner Mongolia Academy of Agricultural & Animal Husbandry Sciences, No. 22 Zhaojun Road, Yuquan District, Hohhot, Inner Mongolia Autonomous Region, 010000, People's Republic of China ~72: BAO, Longshan;CHANG, Hong;CHEN, Yang;DU, Xufang;LIN, Yuman;LIU, Sibo;LIU, Xinchao;Siqin;TIAN, Yanjun;TIAN, Yonglei;WANG, Xinyou;WEI, Yuhong;Wuni'er;Wuyuntana;XU, Jiayi;YANG, Shanshan;YE, Ruhan;YIN, Guomei;ZHANG, Jingjing;ZHAO, Yiwen~

2025/10508 ~ Complete ~54:NONINVASIVE TRANSABDOMINAL FETAL ELECTROENCEPHALOGRAPHY ~71:YALE UNIVERSITY, TWO WHITNEY AVENUE, NEW HAVEN, CT 06510, USA, United States of America ~72: CORTES-BRIONES, Jose;LEE, Emily~ 33:US ~31:63/464,341 ~32:05/05/2023

2025/10513 ~ Complete ~54:NAPHTHYL GLYCIDYL ETHER-MODIFIED POLYETHERAMINES AND USE THEREOF ~71:Huntsman Petrochemical LLC, 10003 Woodloch Forest Dr., THE WOODLANDS 77380, TX, USA, United States of America ~72: ZHAO, Haibo~ 33:US ~31:63/471,611 ~32:07/06/2023

2025/10517 ~ Complete ~54:BISPECIFIC ANTI-*PSEUDOMONAS* ANTIBODIES WITH MODIFIED FC REGIONS AND METHODS OF USE THEREOF ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: BRAILSFORD, Wayne;DIGIANDOMENICO, Antonio;LAMBIASE, Giulia;SOU, Si Nga~ 33:US ~31:63/501,036 ~32:09/05/2023

2025/10481 ~ Complete ~54:A NEW ENERGY SYSTEM FOR EFFICIENT VENTILATION, COOLING, AND COMPREHENSIVE UTILIZATION IN HEAT-AFFECTED MINES ~71:CHINA UNIVERSITY OF MINING & TECHNOLOGY-BEIJING, Ding No.11 Xueyun Road, Haidian District, People's Republic of China;UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING, No. 30 Xueyuan Road, Haidian District, People's Republic of China ~72: CHEN, Yaning;CHENG, Li;FENG, Shuyuan;GAO, Tao;GUAN, Huadong;HU, Kai;LI, Dongyang;LI, Wei;LIU, Bo;PANG, Ting;QI, Zhichong;WU, Xuan;WU, Yile;XU, Yan;ZAKIRULLAH, Zaki;ZHOU, Xiaomin~ 33:CN ~31:202510102934.4 ~32:22/01/2025

2025/10490 ~ Complete ~54:VIDEO PERCEPTION-BASED VEHICLE ABNORMAL DRIVING DETECTION METHOD ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan, Henan Province, 467041, People's Republic of China ~72: JIAO Shuaiyang;JIN Pei;LI Yubo;LIU Xiaoge;LIU Zixiang;PENG Binghui;WU Juntong;XUE Liyuan~

2025/10492 ~ Complete ~54:METHOD AND SYSTEM FOR IOT-BASED REAL-TIME MONITORING OF NATURAL RESOURCES ~71:Henan University of Urban Construction, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CHANG Li;GUO Junxue;LI Shan;LI Yan;SONG Ziyang;YANG Feng~

2025/10503 ~ Complete ~54:A METHOD FOR ENHANCING OIL RECOVERY FROM A SANDSTONE RESERVOIR THROUGH LOW SALINITY WATERFLOODING ~71:Dr. Kuladip Sarma, Chief Chemist (CoEES), Centre Of Excellence For Energy Studies Oil India Limited, Guwahati, Assam - 781005, India;Dr. Nayan Medhi, Assistant Professor, Department of Petroleum Engineering, Dibrugarh University, Dibrugarh, Assam - 786004, India;Dr. Ranjit Dutta, General Manager (CoEES), Centre Of Excellence For Energy Studies Oil India Limited, Guwahati, Assam - 781005, India ~72: Dr. Kuladip Sarma;Dr. Nayan Medhi;Dr. Ranjit Dutta~

2025/10509 ~ Complete ~54:AN ELECTRICAL DISTRIBUTION ASSEMBLY ~71:VOLTSMART UK LIMITED, Cornwallis House, Howard Chase, Essex, United Kingdom ~72: NEILSEN, Jordan~ 33:GB ~31:2308269.6 ~32:02/06/2023

2025/10477 ~ Provisional ~54:MULTI-MODAL, INFRASTRUCTURE-RESILIENT POULTRY MONITORING SYSTEM (ACOUSTIC AND THERMAL BIO-SECURITY HARDWARE & SOFTWARE TOOLS) SUBSTANTIATED BY THE CHICKHAND APP FOR THE USER INTERFACE. THE TECHNICAL NOVELTY OF THE INVENTION RESIDES IN THE PROPRIETARY EDGE OPTIMIZATION TECHNIQUES (POWER MANAGEMENT SCRIPTS)

AND THE BLE MESH PROTOCOL INTEGRATION. ~71:AGRIFOCUS (PTY) LTD, STAND 564 GAMAPHOTO VILLAGE, South Africa ~72: LINDOKUHLE SAMUKELISIWE PRAISEWORTH DUBE~
2025/10491 ~ Complete ~54:GEOLOGICAL DISASTER MONITORING AND EARLY-WARNING SYSTEM AND METHOD THEREOF ~71:Kunming Metallurgy College, No. 388, Xuefu Road, Kunming, Yunnan, People's Republic of China ~72: Kaishan Lin;Leishu Tan;Lijuan Zuo;Ming Cheng;Qi Nie;Xiangdong Niu;Xiaoliang Zhang;Yiming Wen;Yong Cheng;Yuexiwei Li;Yufeng Guo~
2025/10500 ~ Complete ~54:METHOD FOR THE MORE EFFICIENT SPHEROIDISATION OF HIGH QUALITY GRAPHITE PARTICLES ~71:NETZSCH Trockenmahltechnik GmbH, Gebrüder-Netzsch-Straße 19, SELB 95100, GERMANY, Germany ~72: HÖFELS, Christian;SCHÖBEL, Patrick;WINTER, Frank~ 33:DE ~31:10 2024 136 388.6 ~32:05/12/2024
2025/10511 ~ Complete ~54:A TUMOR SAMPLING DEVICE ~71:Medical School of Jishou University, Datian Road, Jishou City, Xiangxi Tujia and Miao Autonomous Prefecture, Hunan Province, 416000, People's Republic of China;The Second Xiangya Hospital of Central South University, No. 139, Renmin Middle Road, Furong District, Changsha City, Hunan Province, 410011, People's Republic of China;Xiangya Hospital of Central South University, No.87 Xiangya Road, Kaifu District, Changsha City, Hunan Province, 410008, People's Republic of China ~72: Changmei Hu;Jiabei Peng;Jie Peng~
2025/10519 ~ Provisional ~54:ADAPTIVE TACTILE FEEDBACK AND GRIP CONTROL SYSTEM FOR PROSTHETICS AND ROBOTICS. ~71:MR THATO MOKHELE, ROODEPOORT, JACKEL CREEK, PEBBEL BEACH, South Africa ~72: MR THATO MOKHELE~
2025/10484 ~ Complete ~54:DYNAMIC SCHEDULING METHOD FOR GREENING SERVICES BASED ON SPATIOTEMPORAL BIG DATA ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CAI Jing;CAI Yujie;HAN Zongyuan;LI Deying;LI QiuHong;LI Tianhao;LI Yajie;WANG Ruiwang;YE Yi;ZHANG Yao~
2025/10489 ~ Complete ~54:A NURSING AUXILIARY MOBILE SUPPORT DEVICE ~71:Anhui University of Chinese Medicine, No. 350 Longzihu Road, Xinzhan District, Hefei City, Anhui Province, 230000, People's Republic of China ~72: Chi Wang;Li Wu;Weiting Liu;Wenxi Han;Xingyu Wang~
2025/10496 ~ Complete ~54:ADSORPTIVE RECOVERY DEVICE AND PROCESS BASED ON ORGANIC DYE IN WATER BODY ~71:JINGGANGSHAN UNIVERSITY, No. 28 Xueyuan Road, Qingyuan District, People's Republic of China ~72: Dan LIU;Genhe HE;Pengyu ZHANG;Qiang LUO;Renlu LIU;Shuran YUN;Youxiang WANG~ 33:CN ~31:2025105009496 ~32:21/04/2025
2025/10501 ~ Complete ~54:DEVICE AND PROCESS FOR ROUNDING GRAPHITE FLAKES OF A GRAPHITE MATERIAL ~71:NETZSCH Trockenmahltechnik GmbH, Gebrüder-Netzsch-Straße 19, SELB 95100, GERMANY, Germany ~72: SCHÖBEL, Patrick;WINTER, Frank~ 33:DE ~31:10 2024 136 383.5 ~32:05/12/2024
2025/10505 ~ Complete ~54:A SYSTEM AND METHOD FOR FACILITATING RECRUITMENT ~71:HIYU (PTY) LTD, 6 Goldcliff, Marion North Road, Ballito, South Africa ~72: JANSEN VAN VUUREN, Justin Michael~
2025/10512 ~ Complete ~54:IMIDAZO[1,2-A]PYRIDINE COMPOUNDS FOR USE IN TREATING CANCER AND INFLAMMATORY DISEASES AND METHODS TO PREPARE SAID COMPOUNDS ~71:Theranib Inc., 1300 - 1969 Upper Water Street, McInnes Cooper Tower, HALIFAX B3J 3R7, NOVA SCOTIA, CANADA, Canada ~72: BERNARDONI, Bianca Laura;D'AGOSTINO, Ilaria;DEAN, Cheryl;FERNANDO, Wasundara;LA MOTTA, Concettina;MACLEAN, Maya;MARCATO, Paola;PETRAROLO, Giovanni~ 33:IT ~31:102023000013581 ~32:29/06/2023
2025/10516 ~ Complete ~54:BUTADIENE PRODUCTION FROM USED TIRES ~71:Bridgestone Americas Tire Operations, LLC, 200 4th Avenue South, Tennessee, NASHVILLE 37201, TN, USA, United States of America ~72: HOGAN, Terrence E.~ 33:US ~31:63/506,743 ~32:07/06/2023
2025/10482 ~ Complete ~54:BELT TENSION ADJUSTING MOUNT ~71:MARK DESMOND RENNIE, 209 Mountainside Road, Pinehaven Estates, Krugersdorp, South Africa ~72: MARK DESMOND RENNIE~
2025/10488 ~ Complete ~54:DRIVER STATE MONITORING AND REAR-SIDE DETECTION EARLY-WARNING SYSTEM ~71:Xiaodong Xia, 1915, Huayuxintian, Qiaodong Street, Huicheng District, Huizhou, Guangdong, People's Republic of China ~72: Fang Wang;Xiaodong Xia;Yuxuan Xia~
2025/10506 ~ Complete ~54:ADHESIVE TAPE CUTTING JIG ASSEMBLY ~71:Stephina Johanna Heath, Plot 44 Highlands, South Africa ~72: Stephina Johanna Heath~ 33:AU ~31:2024901098 ~32:18/04/2024
2025/10510 ~ Complete ~54:MONOCLONAL ANTIBODY OR ANTIGEN-BINDING FRAGMENT THEREOF THAT SPECIFICALLY BINDS TO AXL, AND USE THEREOF ~71:JOINT STOCK COMPANY "BIOCAD", vn. ter. g. poselok Strelna, ul. Svyazi, d. 38, str. 1, pomeshch. 89, Russian Federation ~72: DMITRIEVA, Mariia Denisovna;GORDEEV, Aleksandr Andreevich;KOCHETKOVA, Alina Sergeevna;MOROZOV, Dmitry

Valentinovich;PUCHKOVA, Mariia Yurievna;PURVINSH, Iana Voldemarovna;PUTINTCEVA, Iuliia Vladimirovna;VINOGRADOVA, Elena Vladimirovna~ 33:RU ~31:2023114863 ~32:06/06/2023
 2025/10514 ~ Complete ~54:A PAINT SYSTEM AND METHOD OF USING SAME ~71:Paint Solutions International Ltd., 111 2nd Ave. South, Unit 400, SASKATOON S7K 1K6, SK, CANADA, Canada ~72: LEWIS Jr., Richard Heston Rudolph;PLEWIS, Daniel Keith~ 33:CA ~31:3199604 ~32:13/05/2023
 2025/10478 ~ Provisional ~54:COMPOSITION FOR THE TREATMENT OF BORER BEETLE INFESTATION ~71:ALLISON, Walter, Aubrey, 52 TENNYSEN STR., WINDSOR PARK, KRAAIFONTEIN, SOUTH AFRICA, South Africa ~72: ALLISON, Walter, Aubrey~
 2025/10485 ~ Complete ~54:DISINFECTION ROBOT FOR PUBLIC PLACES AND OBSTACLE AVOIDANCE SYSTEM ~71:North China University of Technology, No. 5, Jinyuanzhuang Road, Shijingshan, Bajiao Street, Shijingshan District, Beijing, People's Republic of China ~72: Hongjuan Yan;Yunfeng Wang~
 2025/10498 ~ Complete ~54:A WIRELESS DIGITAL PREPAID ELECTRICITY METERING SYSTEM AND METHOD ~71:TG HOLDINGS SA (PTY) LTD., 543 Motseng Section, HEBRON 0193, North West Province, SOUTH AFRICA, South Africa ~72: PHOKO, Tshimologo Gracious~ 33:ZA ~31:2025/03444 ~32:14/04/2025
 2025/10515 ~ Complete ~54:METHOD AND SYSTEM FOR PRODUCING HYDROGEN AND/OR OXYGEN ~71:Linde GmbH, Dr.-Carl-von-Linde-Str. 6-14, PULLACH 82049, GERMANY, Germany ~72: DILLIG, Marius;FRUHMANN, Christian;KREBS, Benjamin;LIEBHART, Christian;MÜLLER-THORWART, Ole;WOLF, Andreas~ 33:EP ~31:23020286.3 ~32:12/06/2023

- APPLIED ON 2025/12/08 -

2025/10523 ~ Provisional ~54:MOBILE MODULAR SHOWER AND TOILET POD WITH SMART ACCESS CONTROL, TIME-BASED WATER DELIVERY, AND INTEGRATED IOT MONITORING SYSTEM. ~71:Sebe James Kgati, 2389 Westbrook Estate, South Africa;Sebe James Kgati, 2389 Westbrook Estate, South Africa ~72: Sebe James Kgati;Sebe James Kgati~
 2025/10527 ~ Provisional ~54:SMARTPHONE-BASED AUTONOMOUS ROBOT SYSTEM WITH INTEGRATED LIDAR MAPPING, ENVIRONMENTAL SENSING, AI INTERACTION, PROJECTION SYSTEM WITH SCREEN MIRRORING, AND AUTOMATIC FACE/SUBJECT TRACKING ~71:Ahmed Waseef Saib, 24 Park Avenue , Desainager, South Africa ~72: Ahmed Waseef Saib~
 2025/10534 ~ Provisional ~54:A MODULAR CONSTRUCTION SYSTEM ~71:UNIVERSITY OF CAPE TOWN, Bremner Building Lovers' Walk Rondebosch, Cape Town, 7701, South Africa ~72: DICKSON NG'AMBI;YUSUF VAWDA~
 2025/10537 ~ Provisional ~54:SYSTEM AND METHODS FOR MANAGEMENT OF AQUATIC PLANTS ~71:SMITH, Mark Christopher, Unit 14 Ambervalley, Ambleside Lane, Cowies Hill, Durban 3610, SOUTH AFRICA, South Africa ~72: SMITH, Mark Christopher~
 2025/10549 ~ Complete ~54:COMPOSITE REVERSE COMPENSATION-BASED LABYRINTH SEAL DEVICE ~71:BEIHANG UNIVERSITY, No. 37, Xueyuan Road, Haidian District, People's Republic of China ~72: DING, Shuiting;HUANG, Xiangqin;LI, Zijun;LIU, Chuankai;QIU, Tian;WANG, Jiajun~
 2025/10525 ~ Provisional ~54:WATER-BASED SECURITY INK CONTAINING SOUTH AFRICAN GRAPHENE OXIDE, UPCONVERSION NANOPARTICLES AND SILVER NANOWIRES FORMING SIMULTANEOUSLY AN OPTICAL PHYSICALLY UNCLONABLE FUNCTION AND AN INVISIBLE PASSIVE NFC ANTENNA FOR LOCATION-AWARE BLOCKCHAIN AUTHENTICATION ~71:SAKHILE SIBEKO, 868 DUBE STREET, South Africa ~72: SAKHILE SIBEKO~
 2025/10543 ~ Complete ~54:ANTI-C5 ANTIBODIES AND USES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: HU, Ying;LATUSZEK, Adrianna;OLSON, William;ROMANO, Carmelo~ 33:US ~31:62/349,705 ~32:14/06/2016;33:US ~31:62/405,561 ~32:07/10/2016;33:US ~31:62/422,107 ~32:15/11/2016
 2025/10555 ~ Complete ~54:HETEROAROMATIC DHODH INHIBITORS ~71:Immunicon AG, Lochhamer Schlag 21, GRÄFELFING 82166, GERMANY, Germany ~72: GEGER, Christian;KÖHLHOF, Hella;MÜHLER, Andreas;VITTE, Daniel~ 33:EP ~31:23182205.7 ~32:28/06/2023
 2025/10559 ~ Complete ~54:GASIFICATION ~71:TCG GLOBAL,LLC, 17011 Lincoln Avenue, PMB 363, Parker CO 80134, COLORADO, USA, United States of America;WILLIAMS, Gary John Pilkington, 2 Mount Hess Street, Midlands Estate, Midstream Estates, OLIFANTSFONTEIN 1692, Gauteng, SOUTH AFRICA, South Africa ~72: SHERROD , Darlene Kaye;WILEY, Marcus Kent;WILLIAMS, Gary John Pilkington~ 33:US ~31:63/503,375 ~32:19/05/2023
 2025/10544 ~ Complete ~54:SIMPLIFIED METHOD AND SYSTEM FOR STEEL-CONCRETE BOND-SLIP CONSTITUTIVE RELATIONSHIP ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng

District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: GE, Hua;HOU, Chunxu;HUANG, Peng;LOU, Yafei;SHANG, Feng~
 2025/10548 ~ Complete ~54:SEQUENCING DATA DENOISING METHOD BASED ON SELF-ATTENTION MECHANISM ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: CHANG Huihui;CHEN Yupei;LIU Hanbing;LIU Xinhui;XIE Zhaohui;YANG Xinmiao;YE Tao~
 2025/10556 ~ Complete ~54:CD40 X CD40 BISPECIFIC ANTIGEN-BINDING MOLECULES AND USES THEREOF ~71:Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, TARRYTOWN 10591-6707, NY, USA, United States of America ~72: GARNOVA, Elena S.;KAMAT, Vishal;KIM, Jee H.;LIMNANDER, Andre;ORENGO, Jamie M.;RAFIQUE, Ashique;SEONG, Changhyun;TASKER, Carley C.~
 33:US ~31:63/521,408 ~32:16/06/2023
 2025/10564 ~ Complete ~54:ANTIBODIES BINDING TO FIBROBLAST ACTIVATION PROTEIN ALPHA AND DEATH RECEPTOR 4 ~71:GENMAB A/S, Carl Jacobsens Vej 30, 2500, Valby, Denmark ~72: BART E C G DE GOEIJ;DAVID SATIJN;GRIETJE ANDRINGA;ILSE JONGERIUS;JAMILA LAOUKILI;MADELON PAAUWE;MARIJE OVERDIJK;ONNO WOUTER KRANENBURG;THEODORUS SJOUCHE PLANTINGA~
 33:EP ~31:23182845.0 ~32:30/06/2023
 2025/10524 ~ Provisional ~54:SYSTEM AND METHOD FOR FILTERING AND MATCHING LEGAL PRACTITIONERS BASED ON LOCATION, LEGAL SPECIALTY, AND PRICING CRITERIA ~71:Joshua Clarke, 24 Knight Road, South Africa ~72: Joshua Louis Clarke~
 2025/10526 ~ Provisional ~54:EXTENDED WATER-BASED SECURITY INK CONTAINING SOUTH AFRICAN GRAPHENE OXIDE, UPCONVERSION NANOPARTICLES AND SILVER NANOWIRES FORMING SIMULTANEOUSLY AN OPTICAL PHYSICALLY UNCLONABLE FUNCTION AND AN INVISIBLE PASSIVE NFC ANTENNA FOR LOCATION-AWARE BLOCKCHAIN AUTHENTICATION ~71:SAKHILE SIBEKO, 868 DUBE STREET, South Africa ~72: SAKHILE SIBEKO~
 2025/10531 ~ Provisional ~54:GEMATRIA CELLULAR AUTOMATON WITH ATBASH LOGIC GATES ~71:Jeandre van Dyk, 11 Beachcomber Crescent, Admiral's Park, Gordon's Bay, Cape Town, Western Cape, 7140, South Africa ~72: Jeandre van Dyk~
 2025/10557 ~ Complete ~54:A METHOD AND AN EMBOSSING SET-UP TO EMBOSS TURBULENCE PRODUCING FEATURES INTO A SHEET OF MATERIAL FOR AN INHALABLE DRUG DELIVERY SYSTEM'S FILTERING ELEMENT ~71:Boegli-Gravures S.A., Rue de la Gare 24-26, MARIN-EPAGNIER 2074, SWITZERLAND, Switzerland ~72: BOEGLI, Charles;DUMITRU, Gabriel~ 33:IB ~31:2023/059023 ~32:12/09/2023
 2025/10563 ~ Complete ~54:ALPHA4BETA7 INTEGRIN ANTIBODY COMPOSITIONS AND METHODS OF USE ~71:PARAGON THERAPEUTICS, INC., 221 Crescent Street, Building 23, Suite 105, Waltham, Massachusetts, 02453, United States of America ~72: ERIC FRANKLIN ZHU;HUSSAM HISHAM SHAHEEN;PETER EVAN HARWIN;TOMAS KISELAK~ 33:US ~31:63/504,966 ~32:30/05/2023;33:US ~31:63/505,962 ~32:02/06/2023;33:US ~31:63/599,922 ~32:16/11/2023;33:US ~31:63/554,886 ~32:16/02/2024;33:US ~31:63/559,081 ~32:28/02/2024
 2025/10528 ~ Provisional ~54:SYSTEM AND METHOD FOR A WAGE-LINKED HOME LOAN INSTRUMENT (WL-HLI) USING VERIFIED LIVING-WAGE DATA, PERSONALISED INFLATION INDICES, AND PROGRAMMABLE SUBSIDY RECOURSE ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: KABELO DIALE~
 2025/10530 ~ Provisional ~54:A BARREL WITH LOAD INDICATOR FOR A CABLE ANCHOR ~71:DAK ENGINEERING PROPRIETARY LIMITED, 22 Pulley Street, Boltonia, Krugersdorp, South Africa ~72: MATHEWS, Thomas Daniel Gurney~
 2025/10535 ~ Provisional ~54:UNIRIDE TRAVEL PLATFORM ~71:Novelto Engineering Services (Pty) Ltd., 0230 Kgale Village, Phokeng, South Africa ~72: Harold Lebogang Bopalamo~ 33:ZA ~31:UNI001 ~32:02/12/2025
 2025/10570 ~ Provisional ~54:SHERIFF ONLINE ~71:Masana BALOYI, 407 Graaff Avenue, South Africa ~72: Masana BALOYI~ 33:ZA ~31:1 ~32:05/12/2025
 2025/10571 ~ Provisional ~54:ALORA UNIVERSAL FRAME ~71:Favourite Mabandla, 34 Othello Avenue, South Africa ~72: Favourite Mabandla~
 2025/10552 ~ Complete ~54:CENTRIFUGAL SLURRY PUMP IMPELLER ~71:WEIR MINERALS U.S. INC., 4927 W 2400S, Suite 100, United States of America ~72: DUONG, Chi Huy~ 33:AU ~31:2023902068 ~32:29/06/2023
 2025/10554 ~ Complete ~54:COMPOUNDS FOR THE DELIVERY OF GRANULIN ACROSS THE BLOOD BRAIN BARRIER ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ALVARADO, Alberto;ANDREWS, Forest H.;DRIVER, David Albert;FELLOWS, Ross

Edward;FRONING, Karen Jean;GIRARD, Daniel Scott;VERDINO, Petra;WANG, Yaming~
 33:US ~31:63/509,352 ~32:21/06/2023
 2025/10558 ~ Complete ~54:NANOEMULSION ADJUVANT COMPOSITIONS FOR HUMAN PAPILLOMAVIRUS
 VACCINES ~71:Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States
 of America ~72: AHL, Patrick L.;GASPAR, John;SKINNER, Julie M.;SMITH, William J.;SOUKUP, Randal
 J.;SULLIVAN, Nicole Lea~ 33:US ~31:63/507,269 ~32:09/06/2023
 2025/10628 ~ Provisional ~54:OPEN-LATTICE HYGROSCOPIC CLAY PANEL FOR PASSIVE DEW AND FOG
 HARVESTING AND ITS APPLICATION IN ARID-ZONE INDIGENOUS CROP ESTABLISHMENT ~71:Robert
 Finlay Sephton, 9 Ster Street Monument Park, South Africa ~72: Robert Finlay Sephton~
 2025/10529 ~ Provisional ~54:HEMP BIOFUEL ~71:Green Forge, 117 PRESIDENT PAUL KRUGER,
 UNIVERSITAS, BLOEMFONTEIN, FREE STATE, 9301, South Africa ~72: Green Forge Composite Solutions~
 2025/10533 ~ Provisional ~54:SOLAR POWERED EDGE COMPUTING PODS ~71:JJ Govender, 49 Allen road,
 South Africa ~72: JJ Govender~
 2025/10539 ~ Provisional ~54:NEUROMORPHIC SPIKING CIRCUIT WITH EMERGENT TEMPORAL
 SYMMETRY FEEDBACK ~71:Tofara Moyo, 5 Protea Lane Newton West, Zimbabwe ~72: Tofara Moyo~
 2025/10540 ~ Provisional ~54:DEVICE AND STRUCTURE FOR PROMOTING CONTACT BETWEEN A FLUID
 AND A PARTICULATE MATERIAL AND METHOD OF MANUFACTURE ~71:THE STELLENBOSCH
 NANOFIBER COMPANY (PTY) LTD, 7 Marconi Road,, South Africa ~72: COATES, Megan Patricia;D'SOUZA,
 Sarah;SMIT, Anton Eugene;STEYN, Salomé Sophia;STONE, Justin Marc;WATKINS, Zane Kenrick;WEBSTER,
 Aiden Joel~
 2025/10541 ~ Provisional ~54:TOWING & ROADSIDE ASSISTANCE MOBILE APPLICATION ~71:Catherine
 Rebecca Kyabita Yanguya, Nerine Street, South Africa ~72: Catherine Rebecca Kyabita Yanguya;Davison
 Matanganyidze;Tonderai Chinaka~
 2025/10542 ~ Provisional ~54:SOLAR ON TOWER AND EDGE COMPUTING ~71:JJ Govender, 49 Allen Road,
 South Africa ~72: JJ Govender~
 2025/10547 ~ Complete ~54:ECOLOGICAL ENVIRONMENT REMEDIATION DEVICE FOR MINE GEOLOGICAL
 DISASTERS ~71:Kunming Metallurgy College, No. 388, Xuefu Road, Kunming, Yunnan, People's Republic of
 China ~72: Donghao He;Hanping Zhang;Haobo Ji;Liping Duan;Ping Lu;Qingqing Lv;Xiaoliang Zhang;Xingwei
 Xu;Yiming Wen;Yong Cheng;Yuexiwei Li~
 2025/10551 ~ Complete ~54:COMBINATION RESPIRATORY MRNA VACCINES ~71:SANOPI PASTEUR INC., 1
 Discovery Drive, Swiftwater, United States of America ~72: CLARK, Nicholas Keith;DANVE-CHERY,
 Emilie;DINAPOLI, Joshua;KISHKO, Michael;ROKBI, Bachra;SLADE, Christopher;TIBBITTS, Timothy
 John;WARREN, William;ZHANG, Linong~ 33:US ~31:63/465,389 ~32:10/05/2023;33:EP ~31:24305723.9
 ~32:09/05/2024;33:EP ~31:24315228.7 ~32:09/05/2024
 2025/10561 ~ Complete ~54:NEW USES FOR COOLANTS ~71:BASF SE, Carl-Bosch-Strasse 38, 67056,
 Ludwigshafen am Rhein, Germany ~72: GUIDO MAYER;IVANA KRKLJUS;TIMO WENDLING;UWE
 FOERSTER~ 33:EP ~31:23181958.2 ~32:28/06/2023
 2025/10565 ~ Complete ~54:A COMPOSITION FOR PRODUCING A COATING ON A MAIN BODY OF A MOLD
 OR CORE FOR METAL CASTING THAT EMITS FORMALDEHYDE WHEN HEATED ~71:FOSECO
 INTERNATIONAL LIMITED, 165 Fleet Street, London, EC4A 2AE, United Kingdom ~72: JURGEN
 RADSTAKE;MARJAN HAMER;UGO NWAOGU~ 33:EP ~31:23178914.0 ~32:13/06/2023
 2025/10567 ~ Provisional ~54:MAZETILT™ ~71:"Jaco" Barend Jacobus Vosloo _ du Plessis ID 6903295117088,
 Water Street 14 - Ulmenhof 2 Senekal, South Africa ~72: "Jaco" Barend Jacobus Vosloo _ du Plessis ID No:
 6903295117088~
 2025/10522 ~ Provisional ~54:INTER-SYSTEM TRUST KERNEL (ISTK) FOR FEDERATED DIGITAL-
 PHYSICAL TRUST NORMALISATION, CAUSAL VERIFICATION, COMPLIANCE ENFORCEMENT, AND
 MANDATORY ROUTING ~71:Novitalis AG, Burg str 15, Switzerland ~72: Annelie Stapela;Dayle Wheeler~
 2025/10532 ~ Provisional ~54:HEMP SAF ~71:Green Forge, 117 PRESIDENT PAUL KRUGER, UNIVERSITAS,
 BLOEMFONTEIN, FREE STATE, 9301, South Africa ~72: Michael Brooks~
 2025/10538 ~ Provisional ~54:METHOD & SYSTEM FOR AUTOMATED POS TRANSACTIONS ~71:Angus Pohl,
 334 Mint Avenue, South Africa ~72: Angus Pohl~
 2025/10553 ~ Complete ~54:ANTHROQUINONE/REDUCED GRAPHENE OXIDE MEDIATOR MEMBRANE,
 AND PREPARATION METHOD AND USE THEREOF ~71:XIAMEN UNIVERSITY OF TECHNOLOGY, No. 600,
 Ligong Road, Jimei District, Xiamen, Fujian, 361000, People's Republic of China ~72: CHEN, Shuixuan;JING,
 Zirui;LIU, Bin;LIU, Chao;SHI, Yu;WU, Hanbin;YAN, Bin;YE, Qian~

2025/10560 ~ Complete ~54:NEW METHOD FOR PREPARING OXOPYRIDINE COMPOUND, AND KEY INTERMEDIATE AND USE ~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: HUANG, Long;ZENG, Yanqun;ZHOU, Guanglin;ZHU, Xucheng~ 33:CN ~31:202310679927.1 ~32:09/06/2023;33:CN ~31:202310738580.3 ~32:21/06/2023;33:CN ~31:202310757873.6 ~32:26/06/2023

2025/10562 ~ Complete ~54:INDUSTRIAL SYSTEM ~71:GEA GROUP AKTIENGESSELLSCHAFT, Ulmenstraße 99, 40476, Düsseldorf, Germany ~72: HASSAN YAZDI;KEVIN FELDMANN;LUKAS ROY SVANE THEISEN~ 33:EP ~31:23172852.8 ~32:11/05/2023

2025/10572 ~ Provisional ~54:A MID-SIZED INSTANT NOODLE BLOCK WITH CALIBRATED FLAVORING SACHETS AND OPTIMIZED PACKAGING FOR SINGLE-SERVE CONSUMPTION ~71:Dallyn Delpont, 46 Green Acre Terraces, South Africa ~72: Dallyn Delpont~

2025/10536 ~ Provisional ~54:THREE-IN-ONE CAMPING SCREEN ~71:Elizabeth Maria Pelsers, 6 Dee Drive, South Africa ~72: Elizabeth Maria Pelsers~

2025/10545 ~ Complete ~54:AUTOMATIC MONITORING METHOD AND SYSTEM FOR INTERSECTION VEHICLE INFORMATION ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan, Henan Province, 467041, People's Republic of China ~72: JIAO Shuaiyang;JIN Pei;LI Yubo;LIU Xiaoge;LIU Zixiang;WU Juntong;XUE Liyuan;ZHANG Yilu~

2025/10546 ~ Complete ~54:EMERGENCY MEDICAL INFORMATION AND/OR NOTIFICATION DEVICE AND SYSTEM ~71:MTAG HEALTH SOLUTIONS NAMIBIA (PTY) LTD, Erf 40 Albatross Street, Hochland Park, Namibia ~72: DAVIDS, O'Brian Anthony~ 33:ZA ~31:2024/09895 ~32:20/12/2024

2025/10550 ~ Complete ~54:FENCE PANEL WITH HIGH HARDNESS FENCE ELEMENTS ~71:Conrite Group Holdings (Pty) Ltd, 21 Tewkesbury, Cotswold Downs, South Africa ~72: SPEIRS, Michael~

2025/10566 ~ Complete ~54:ENGINEERED GCN4 TRIMERIZATION MOTIF ~71:MEVOX LTD, First Floor, Victory House, Visions Park, Chivers Way, Histon, Cambridgeshire, CB24 9ZR, United Kingdom ~72: ARTHUR SARRON;GUILLAUME STEWART-JONES;IAN OVERTON~ 33:GB ~31:2307264.8 ~32:16/05/2023

- APPLIED ON 2025/12/09 -

2025/10583 ~ Complete ~54:A WOVEN BAG ~71:NELSIE NDIMANDE, 436 Mnisi Street, Mofolo North, South Africa ~72: NELSIE NDIMANDE~

2025/10587 ~ Complete ~54:BLOCKCHAIN-BASED METHOD FOR MANAGING SCIENTIFIC RESEARCH ACHIEVEMENTS IN UNIVERSITIES ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: LI Bo~

2025/10591 ~ Complete ~54:CONSTRUCTION METHOD AND APPLICATION OF HIGHLAND BARLEY SELENIUM CONTENT PREDICTION MODEL BASED ON BINARY LINEAR REGRESSION ~71:CHINESE ACADEMY OF AGRICULTURAL SCIENCES, No. 12, Zhongguancun South Street, Haidian District, Beijing, 100081, People's Republic of China;Liaoning Academy of Agricultural Sciences, No. 84 Dongling Road, Shenhe District, Shenyang City, Liaoning Province, 110065, People's Republic of China;Tibet Academy of Agriculture and Animal Husbandry Sciences, No. 130 Jinzhu West Road, Lhasa, Xizang, 850000, People's Republic of China ~72: Lajong;MEI Xurong;Nyima Tashi;QU Hang;SUN Wentao;WEI Zexiu~

2025/10608 ~ Complete ~54:A CLOUD-BASED ENVIRONMENTALLY FRIENDLY TRANSFORMER ~71:Baoding Zhongyi Electrical Material Manufacturing Co., Ltd., Dahou Village, Qingyuan District, Baoding City, Hebei Province, 071100, People's Republic of China ~72: BAI Peng;CHEN Chong;CHEN Chuhe;CHEN Zihao;DONG Guangyun;FAN Yang;HAN Dongjie;MIAO Zhuang;SUN Xuejian;WANG Jiaqi;WANG Zeng;ZHANG Jia~ 33:CN ~31:2025105822636 ~32:07/05/2025

2025/10614 ~ Complete ~54:MIXTURE OF HMOS AND B. INFANTIS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: DE BRUYN, Florac;FORBES-BLOM, Elizabeth;JAMES, Kieran;MAES, Dominick;NOTI, Mario;TYTGAT, Hanne Lore Paula~ 33:EP ~31:23173613.3 ~32:16/05/2023

2025/10617 ~ Complete ~54:COMBINATION OF A PARP1 INHIBITOR AND A SELECTIVE ESTROGEN DEGRADER FOR TREATING CANCER ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: ALBERTELLA, Mark Robert;BROWN, Jessica S.;COSULICH, Sabina Chiara~ 33:US ~31:63/501,425 ~32:11/05/2023

2025/10624 ~ Complete ~54:APPARATUS AND WIRELESS COMMUNICATION METHOD OF INTER-CELL MOBILITY ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang'an, Dongguan, Guangdong 523860, People's Republic of China ~72: LI GUO~ 33:US ~31:63/524,172 ~32:29/06/2023

2025/10586 ~ Complete ~54:INTEGRATED PLASTIC RAW MATERIAL SCREENING AND CRUSHING MACHINE ~71:Zhoukou Huaxun Industry Co., Ltd, Beicheng Industrial Park Agglomeration Area, Shenqiu County, Zhoukou City, Henan Province, 466300, People's Republic of China ~72: Liu Changhua;Liu Shuai~ 33:CN ~31:202510799503.8 ~32:16/06/2025

2025/10582 ~ Complete ~54:STORAGE TANKS ~71:VAN DER MERWE, Jacobus Quintus, Portion 60, Farm De Rust, South Africa ~72: VAN DER MERWE, Jacobus Quintus~ 33:ZA ~31:2024/09896 ~32:20/12/2024

2025/10585 ~ Complete ~54:SMART TRAFFIC DEVICE WITH WARNING AND INTERCEPTION FUNCTIONS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan, Henan Province, 467041, People's Republic of China ~72: CAO Yuhao;LIU Fuhao;LIU Lihua;SHI Xinhang;SUN Zhaoyu;WANG Hao;ZHANG Lei;ZHAO Jianfeng~

2025/10599 ~ Complete ~54:AN IOT-ENABLED EMERGENCY ALERT AND GEO-TRACKING SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: DESALE, Tanvi;DESHPANDE, Animesh Arun;DESHPANDE, Atharv Atul;DHAGE, Jigisha Shailesh;DHAGE, Tushar Vikas;NANDESHWAR, Vikas Janu;SONDKAR, Shilpa Yogesh~

2025/10604 ~ Complete ~54:A CROP DISEASE DETECTION AND REMEDY SUGGESTION SYSTEM USING IMAGE PROCESSING ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: JATTA, Shivi;SHINGARE, Vishvesh;SHIRBHATE, Amey;SHIROTE, Siddesh;SHITOLE, Rohit;SHIVATARE, Aryan Santosh;VAYADANDE, Kuldeep~

2025/10613 ~ Complete ~54:MIXTURE OF HMOS AND B. INFANTIS ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: FORBES-BLOM, Elizabeth;MAES, Dominick;NOTI, Mario~ 33:EP ~31:23173614.1 ~32:16/05/2023

2025/10618 ~ Complete ~54:PREVENTION, INHIBITION OR TREATMENT OF CONDITIONS OR DISORDERS MEDIATED BY UROCANATE REDUCTASE ~71:IMPLEXION PHARMA AB, Erik Dahlbergsgatan 11A, Sweden ~72: BECK, Katharina;BÄCKHED, Fredrik;WESTERLUND, Christer~ 33:GB ~31:2309910.4 ~32:29/06/2023

2025/10620 ~ Complete ~54:MULTIPLE SINGLE-NUCLEOTIDE POLYMORPHISM-BASED 10K LIQUID PHASE CHIP FOR PIG, AND USE THEREOF ~71:China Agricultural University, No. 2 Yuanmingyuan West Road, Haidian District, Beijing, People's Republic of China ~72: DING, Xiangdong;DOU, Hehe;LI, Shujuan;LIU, Huatao;SHAO, Yuru;WANG, Chuduan;ZHANG, Zipeng~ 33:CN ~31:2023107078788 ~32:15/06/2023

2025/10623 ~ Complete ~54:DEVICES AND METHODS OF USE THEREOF FOR NON-HORMONAL CONTRACEPTION ~71:ELLE, MD BIOTECHNOLOGIES INC., 21 Roy Ave. Suite 250 New Minas, Nova Scotia B4N 3R7, Canada ~72: JENNIFER JOHNSTON~ 33:US ~31:63/501,575 ~32:11/05/2023

2025/10637 ~ Complete ~54:A REAL-TIME MALWARE DETECTION SYSTEM USING HYBRID META-LEARNING ON SYSTEM CALLS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: KATKAR, Pratyunsh;NYAYAPTAHI, Shreekar;RATHOD, Samadhan;SABBENWAD, Akshay;VAYADANDE, Kuldeep;WAKLE, Prajwal~

2025/10621 ~ Complete ~54:CAP FOR PROVIDING A TAMPER EVIDENCE FEATURE ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, 6971, Hard, Austria ~72: DANILO GRIECO;VAGISH DIXIT~ 33:IN ~31:202311032974 ~32:10/05/2023;33:IN ~31:202311049998 ~32:25/07/2023

2025/10625 ~ Complete ~54:ADENO-ASSOCIATED VIRUS FORMULATIONS ~71:4D MOLECULAR THERAPEUTICS INC., 5858 Horton Street, Suite 455, Emeryville, California, 94608, United States of America ~72: CATHERINE T BARGLOW;JOHNNY C GONZALES~ 33:US ~31:63/507,266 ~32:09/06/2023

2025/10609 ~ Complete ~54:RELAXIN-2 FUSION PROTEIN ANALOGS AND METHODS OF USING SAME ~71:TECTONIC OPERATING COMPANY, INC., 490 Arsenal Way, Suite 210, United States of America ~72: ALVES, Washington;DIENER, John;GRUSWITZ, Franz;KNIHTILA, Ryan;MUSLIN, Anthony J.~ 33:US ~31:63/503,101 ~32:18/05/2023;33:US ~31:63/585,849 ~32:27/09/2023;33:US ~31:63/586,868 ~32:29/09/2023;33:US ~31:63/611,732 ~32:18/12/2023;33:US ~31:63/617,398 ~32:03/01/2024

2025/10622 ~ Complete ~54:NOVEL COMPLEMENT SYSTEM INHIBITING ANTIBODIES ~71:4D MOLECULAR THERAPEUTICS INC., 5858 Horton Street, Suite 455, Emeryville, California, 94608, United States of America ~72: ALBENA KANTARDZHIEVA;MELISSA CALTON;ROXANNE CROZE;SHILPA MAROJU;TSENG-HUI TIMOTHY CHEN~ 33:US ~31:63/503,745 ~32:23/05/2023;33:US ~31:63/503,768 ~32:23/05/2023

2025/10606 ~ Complete ~54:SYSTEM FOR THE FORMALIZATION OF MICRO-QUALIFICATION RECOGNITION AND METHOD THEREOF ~71:Alexis Matheu Pérez, Street: Manuel Antonio Matta #0198, Quilicura, Santiago, 8730174, Chile;Bernardo O'Higgins University, Viel Av.# 1497, Santiago, 8370993,

Chile; Claudio Ruff Escobar, Street: General Gana #1702, Santiago, 8370854, Chile; Elena Gorbashko, Street: 20, ap.12, Angliyskaya naberezhnaya, Saint Petersburg, 190000, Russian Federation; Elena Vasileva, Street: 168, ap. 38, Nevskiy prospect, Saint Petersburg, 191024, Russian Federation; Igor Maksimtsev, Street: 5, ap.104, Voskova str., Sestroretsk, Saint Petersburg, 197706, Russian Federation; Irina Vostrikova, Street: 34-4, ap.61, Shlisselburgskiy prospect, Saint Petersburg, 192076, Russian Federation; Marcelo Ruiz Toledo, Street: Carlos Peña Otaegui #9547, Las Condes, Santiago, 7600355, Chile; Nadezda Abbas, Normandia 1941, 406 torre menor, Providencia, Santiago, 7750000, Chile; Natalia Sirota, Street: 27/193, A, ap. 109, str. Generala Simonyaka Saint Petersburg, 198261, India; Saint Petersburg State University of Economics (UNECON), Street: 30-32, let. A, Naberezhnaya kanala Griboedova, Saint Petersburg, 191023, Russian Federation ~72: Alexis Matheu Pérez; Claudio Ruff Escobar; Elena Gorbashko; Elena Vasileva; Igor Maksimtsev; Irina Vostrikova; Marcelo Ruiz Toledo; Nadezda Abbas; Natalia Sirota~
2025/10619 ~ Complete ~54: COMPOSITION FOR PRODUCING COMPONENTS ~71: Kruner Industries AG, Kägswilerstrasse 17, Sarnen, 6060, Switzerland ~72: Helmut Lerner; Robert Rentz~ 33:AT ~31:A50363/2023 ~32:10/05/2023
2025/10626 ~ Complete ~54: DETERMINATION OF SULPHUR DIOXIDE IN A LIQUID ~71: FOSS ANALYTICAL A/S, Nils Foss Alle 1, Denmark ~72: LAURSEN, Steen Hur; LUNDGAARD, Rasmus Friis; ZIELKE, Philipp~ 33:DK ~31:PA202330049 ~32:30/05/2023
2025/10573 ~ Provisional ~54: THORIUM MICRO-REACTOR ~71: 7 SLASH CIVILIZATION TECHNOLOGIES, 58 Van Den Heever Street, South Africa ~72: Thabang Timothy Mambalo~
2025/10576 ~ Provisional ~54: A COMPUTER-IMPLEMENTED METHOD AND SYSTEM FOR FACILITATING AUTOMATED AND COMPLIANT RECRUITMENT ~71: PURPLE UNICORN RECRUITMENT (PTY) LTD, 9 Mullin Avenue, Dunvegan, South Africa ~72: DE ANDRADE, Monica; YAPCE, Tula~
2025/10579 ~ Provisional ~54: THE ANTICANCER ACTIVITY OF HYPOESTES FORSKAOLII AGAINST MELANOMA ~71: UNIVERSITY OF PRETORIA, Corner Lynnwood Road and Roper Street Hatfield 0002, Pretoria, Gauteng, South Africa ~72: JACQUELINE MAPHUTHA; NAMRITA LALL~
2025/10580 ~ Provisional ~54: INNOVATIVE COMPOUND ADDITIVE/BINDER FOR MANUFACTURING SUSTAINABLE UNFIRED BRICKS AND PAVERS USING 100% RECYCLED CONSTRUCTION AND DEMOLITION WASTE (C&DW) ~71: NOTHANA HOLDINGS PTY LTD, 1224 Embankment Avenue, South Africa ~72: Makoma Alphosina Nothana~ 33:ZA ~31:4 ~32:01/09/2025
2025/10636 ~ Complete ~54: AN AI-ENHANCED PERSONAL FINANCE TRACKER WITH OCR AND DATA VISUALIZATION ~71: VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BAHIRAT, Shreeya; JASROTIA, Shubam; NAKADE, Shree; SHRIVASTAV, Satyam; TIPNIS, Shriya; VAYADANDE, Kuldeep; WAGHMODE, Shubham~
2025/10574 ~ Provisional ~54: WAGE-LINKED VEHICLE FINANCE INSTRUMENT (WL-VFI) SYSTEM AND METHOD FOR DYNAMIC WAGE-INDEXED VEHICLE CREDIT PRICING, SERVICING, AND RISK TRANSFER USING VERIFIED EMPLOYER WAGE SIGNALS, PERSONALIZED INFLATION, TELEMATICS-DERIVED BEHAVIOURAL INDICES, AND RESIDUAL-VALUE FORECASTING ~71: Kabelo Diale, 7 Comet Street, South Africa ~72: KABELO DIALE~
2025/10577 ~ Provisional ~54: A METHOD AND SYSTEM FOR FINANCIAL DATA PROCESSING ~71: IMALI INFUSION (PTY) LTD, 2 Bruton Road, Block C, Bryanston, Johannesburg 2191, SOUTH AFRICA, South Africa ~72: JONES, Andrew James~
2025/10578 ~ Provisional ~54: SMART ELECTRICITY METER INTERFACE ~71: Karabo Manaka, 6 Harling Road, South Africa ~72: Karabo Manaka~
2025/10594 ~ Complete ~54: AN ELECTRICAL CABLE AND PILOT CORE ~71: ABERDARE CABLES (PTY) LTD, Group Operations Centre, 181A Barbara Road, ELANDSFONTEIN 1410, Gauteng Province, SOUTH AFRICA, South Africa ~72: THULASEE, Vishal Roychand Bharath; WANG, Jian~
2025/10596 ~ Complete ~54: ANTI-CD123 ANTIBODIES AND CONJUGATES AND DERIVATIVES THEREOF ~71: IMMUNOGEN, INC., 830 Winter Street, Waltham, Massachusetts, 02451, United States of America ~72: DANIEL TAVARES; LINGYUN RUI; THOMAS CHITTENDEN; YELENA KOVTUN~ 33:US ~31:62/186,161 ~32:29/06/2015; 33:US ~31:62/338,203 ~32:18/05/2016; 33:US ~31:62/346,730 ~32:07/06/2016
2025/10600 ~ Complete ~54: AN IRRIGATION SYSTEM FOR AUTOMATED PLANT WATERING BASED ON SOIL MOISTURE CONDITIONS ~71: VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAUDHARI, Prasad B.; CHAVHAN, Pranali G.; JAHANGIR, Umar Tabrez; JALGAONKAR, Sahil Sanjay; KALME, Rushab; KHONDRE, Shruti; SURYAWANSHI, Amol~

2025/10605 ~ Complete ~54:A PRIVACY PROTECTION SYSTEM FOR PERSONAL SENSITIVE INFORMATION USING LOCAL AI REDACTION AND VERIFIABLE CREDENTIAL (VC) ACCESS CONTROL ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAUDHARI, Prasad B.;JAHANGIR, Sidra;JAHANGIR, Umar;KHONDRE, Shruti Pradeep;OSWAL, Vidhi;SHELKE, Priya;SURYAWANSHI, Amol~

2025/10575 ~ Provisional ~54:INTERLOCKED MODULAR FRAME ASSEMBLY ~71:DYNAMIC GROUND STABILISATION AGENCY (PTY) LTD, 3 MODEL ROAD, JETPARK,, South Africa ~72: INDHRASEN VALLEN GOVENDER~

2025/10581 ~ Provisional ~54:PETAL PULSE ~71:Neo Cynthia Mokwena, 34 Palamino complex, South Africa ~72: Elias Pulana Mokwena~ 33:ZA ~31:ZA P 2025/12008 ~32:08/12/2025

2025/10584 ~ Complete ~54:METHOD FOR DEEP LEARNING INVERSION OF TRANSIENT ELECTROMAGNETISM BASED ON FASSA-CNN-LSTM ~71:Xinjiang University, No. 666, Shengli Road, Tianshan District, Urumqi City, Xinjiang Uygur Autonomous Region, 830000, People's Republic of China ~72: Liu Zheng;Wu Wenyu;Wu Xinyu;Xie Bin;Zhang Yingying~ 33:CN ~31:202411801893X ~32:09/12/2024

2025/10590 ~ Complete ~54:A LARGE-CAPACITY TRANSFORMER PRIMARY CURRENT-RISING PROTECTION DEVICE ~71:State Grid Hubei Electric Power Co., Ltd. Xiangyang Power Supply Company, No. 15 Changhong Road, Xiangyang City, Hubei Province, 441002, People's Republic of China;State Grid Hubei Electric Power Co., Ltd. Yicheng Power Supply Company, South of Zizhong Road, Yicheng, Xiangyang City, Hubei Province, 441499, People's Republic of China ~72: Chen Junxue;Deng Fangmin;Gong Yanling;Li Ruizhen;Mu Yijing;Su Gaoyang;Wei Pengfei;Ye Jianfeng;Zhang Jia'ao;Zhang Yanpeng;Zhou Yuke~

2025/10592 ~ Complete ~54:COBALT-LOADED WALNUT SHELL BIOCHAR AND PREPARATION METHOD AND USE THEREOF ~71:Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, 18 Shuangqing Road, Haidian District, Beijing, 100085, People's Republic of China ~72: JIAO, Wentao;SHAN, Yongping;ZHANG, Conghui~ 33:CN ~31:202511657566.6 ~32:12/11/2025

2025/10595 ~ Complete ~54:SPOUT ATTACHMENT FOR A CONTAINER AND A COVER THEREFOR ~71:SIMON PETRUS JACOBS, 23 Ebony Street, Jeffreys Bay, 6330, South Africa ~72: SIMON PETRUS JACOBS~ 33:ZA ~31:2024/06903 ~32:09/09/2024;33:ZA ~31:2025/03066 ~32:11/04/2025

2025/10597 ~ Complete ~54:A REAL-TIME DEADLOCK DETECTION SYSTEM USING A HYBRID GRAPH NEURAL NETWORK AND LSTM FRAMEWORK ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: GADIWALE, Maroof Mustaq Mohammed;JADHAV, Sanyog Sandeep;MESHRAM, Naisargi;MOKASHI, Shrinidhi Ulhas;PATIL, Achala Prakash;VAYADANDE, Kuldeep~

2025/10588 ~ Complete ~54:ARTIFICIAL INTELLIGENCE MODEL-GUIDED EFFICIENT COTTON PLANTING METHOD ~71:Jingzhou Academy of Agricultural Sciences, No. 41, Nanhu Road, Shashi District, Jingzhou City, Hubei Province, People's Republic of China ~72: Hu Aibing;Huang Qiang;Ouyang Jing;Wu Yunzi;Xiong Lu;Zhang Tiaoping~

2025/10602 ~ Complete ~54:AN AUGMENTED REALITY BASED REHABILITATION AND POSTURE CORRECTION SYSTEM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHAUDHARI, Prasad B.;DASHPUTE, Srushti Jagdish;JADHAV, Deepali S.;PARMAR, Reet Vikram;PATEL, Arshad Rubab;SHELKE, Priya;SURYAWANSHI, Amol~

2025/10612 ~ Complete ~54:METHODS, SYSTEMS AND COMPUTER-READABLE MEDIA FOR GENERATING UNIQUE IDENTIFIERS USING HASHING ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: DRIDAN, Rebecca;FRAZIER, Jane;HASANBULLI, Mustafa;PACE, Shannon~ 33:AU ~31:2023901881 ~32:14/06/2023;33:AU ~31:2023902629 ~32:18/08/2023

2025/10616 ~ Complete ~54:DECORATIVE PAPER FOR LAMINATE PANELS ~71:Lignum Technologies AG, Rütihofstr.1, NIEDERTEUFEN 9052, SWITZERLAND, Switzerland ~72: DÖHRING, Rainer~

2025/10589 ~ Complete ~54:A PREPARATION METHOD OF A GRAPHENE-BASED ALUMINUM MATERIAL ~71:Bengbu University, 1866 Caoshan Road, Bengbu City, Anhui Province, People's Republic of China ~72: Ding Bo;Fan Siyao;Li Suyao;Lu Yujiao;Luan Ruize;Wang Sujin;Xiong Mingwen;Zhang Bo;Zhao Yi~ 33:CN ~31:2025116420241 ~32:11/11/2025

2025/10598 ~ Complete ~54:A QUANTUM ASSISTED INTERMEDIATE REPRESENTATION GENERATION USING LLVM ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BOKIL, Aary;CHANNAWAR, Samiksha;DHARASHIVKAR, Aditya;KOTKAR, Mahesh;PAWAR, Atharv;VAYADANDE, Kuldeep~

2025/10601 ~ Complete ~54:COMPUTERIZED SYSTEM AND METHOD FOR REAL-TIME SIMULATION AND ANALYSIS OF MACROECONOMIC VARIABLES ~71:Bernardo O'Higgins University, Viel Av.# 1497, Santiago, 8370993, Chile;Cristian Javier Cornejo Gaete, Caletera Oriente, 21494, Colina – 9340000, Chile;Erik Omar Escalona Aguilar, José Victorino Lastarria #104 D1017B, Santiago, 8320000, Chile;Evgeniy Koloshkin, Seven Soviet Street, 4, Saint Petersburg, 191036, Russian Federation;Nicholas Jesús Lopetegui Salazar, Calle Curicó # 631, Paine RM, 9540000, Chile;Paola Juica Martínez, Uno Sur, 4991, Villa Departamental, Peñalolén, Santiago – 7910000, Chile;Saint Petersburg State University of Economics (UNECON), 30-32, let.A, Naberezhnaya kanala Griboedova, Saint Petersburg, 191023, Russian Federation ~72: Cristian Javier Cornejo Gaete;Erik Omar Escalona Aguilar;Evgeniy Koloshkin;Nicholas Jesús Lopetegui Salazar;Paola Juica Martínez~

2025/10607 ~ Complete ~54:AN IDENTIFIER SYSTEM FOR INTERNATIONALLY DECLARED HARMFUL AND BANNED SUBSTANCES IN FOOD AND COSMETIC PRODUCTS ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: DEULKAR, Siddharth;GADE, Siddhant;KANATHIA, Soham;SHUKLA, Durgesh;SINGH, Tusharkumar;SOLANKAR, Rushi;VAYADANDE, Kuldeep~

2025/10610 ~ Complete ~54:MODULATORS OF PROTEIN SECRETION ~71:INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE, 101 rue de Tolbiac, France;SANOFI, 46 Avenue de la Grande, France;SORBONNE UNIVERSITE, 21 rue de l'Ecole de Médecine, France;UNIVERSITÉ PARIS CITÉ, 85 Boulevard Saint-Germain, France ~72: BASMACIOGULLARI, Stephane;COULET, Mathilde;KEPP, Oliver;KROEMER, Guido~ 33:EP ~31:23315197.6 ~32:11/05/2023

2025/10615 ~ Complete ~54:INSULIN DERIVATIVE AND USE THEREOF ~71:The United Bio-Technology (Hengqin) Co., Ltd., Room 501, Building 5, No.100 Feipeng Road, Guangdong-Macao Cooperation Traditional Chinese Medicine Science And Technology Industrial Park, Hengqin New District, ZHUHAI 519031, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: CAO, Chunlai;DENG, Huixing;HE, Xiuyi;HUANG, Liang;LIU, Xiaoxiao;XIE, Xin;ZHOU, Cui~ 33:CN ~31:202310588063.2 ~32:24/05/2023

2025/10593 ~ Complete ~54:ADSORBENT FOR ADSORBING LEAD IONS FROM AQUEOUS SOLUTION AND PREPARATION METHOD AND ADSORPTION METHOD THEREOF ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: BAO Zhibo;HOU Zhipeng;HUANG Xuezheng;LIANG Feng;TIAN Zhenjun;WU Li;YANG Dongchao~

2025/10603 ~ Complete ~54:A SYSTEM FOR REAL-TIME FORECASTING OF CPU AND MEMORY USAGE USING A HYBRID GRU AND PROPHET MODEL ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: CHUDIWAL, Shreyash Rajendra;DOIFODE, Vikas Bapusaheb;GAIKWAD, Siddhi Lalasaheb;RAUT, Renuka Panjabrao;SONAWANE, Sakshi Janardhan;VAYADANDE, Kuldeep Baban~

2025/10611 ~ Complete ~54:MULTIPLE SINGLE NUCLEOTIDE POLYMORPHISM-BASED PORCINE 50K LIQUID CHIP, AND USE THEREOF ~71:China Agricultural University, No. 2 Yuanmingyuan West Road, Haidian District, Beijing, People's Republic of China ~72: DING, Xiangdong;DOU, Hehe;LIU, Huatao;WANG, Chuduan;ZHANG, Qin;ZHANG, Zipeng~ 33:CN ~31:2023105528516 ~32:17/05/2023

2025/10627 ~ Provisional ~54:ELECTRO MECHANICAL SHARER ~71:BIB INTERNATIONAL (PTY) LTD, Avenida Marginal,Casa 14,Q57,Vila dos Pescadores, Costa do Sol-Maputo999 Ensele Street,Kamagugu, Nelspruit, South Africa ~72: Lucrécio Lúcia Orlando Macuácu~

2025/10629 ~ Provisional ~54:SCHOOL BOOK ~71:Jyothiniranjan Pillay, 6 Proteas, Morningside, South Africa ~72: Jyothiniranjan Pillay~

- APPLIED ON 2025/12/10 -

2025/10657 ~ Complete ~54:A PHOTOREACTOR ~71:UNIVERSITY OF SOUTH AFRICA, PRELLERSTREET, MUCKLENEUK, PRETORIA 0002, South Africa ~72: KUVAREGA, Alex~ 33:ZA ~31:2023/06456 ~32:22/06/2023

2025/10659 ~ Complete ~54:FORMULATION FOR CONTROLLING BLOWFLY INFESTATIONS ~71:BAKER, Kim, c/o Elanco Australasia Pty Ltd., Level 3/7, Eden Park Drive, Macquarie Park, 2113, NEW SOUTH WALES, AUSTRALIA, Australia;BOHNENBLUST, Katharina, c/o Elanco Australasia Pty Ltd., Level 3/7, Eden Park Drive, Macquarie Park, 2113, NEW SOUTH WALES, AUSTRALIA, Australia;Elanco Australasia Pty Ltd., Level 3/7 Eden Park Drive, Macquarie Park, 2113, NEW SOUTH WALES, AUSTRALIA, Australia;HUREAU, Sabrina, c/o Elanco Australasia Pty Ltd., Level 3/7, Eden Park Drive, Macquarie Park, 2113, NEW SOUTH WALES, AUSTRALIA, Australia;LI, Sam, c/o Elanco Australasia Pty Ltd., Level 3/7, Eden Park Drive, Macquarie Park, 2113, NEW SOUTH WALES, AUSTRALIA, Australia;NEUGEBAUER, Robert Christoph, c/o Elanco Australasia Pty Ltd., Level 3/7, Eden Park Drive, Macquarie Park, 2113, NEW SOUTH WALES, AUSTRALIA, Australia ~72: BAKER,

Kim;BOHNENBLUST, Katharina;HUREAU, Sabrina;LI, Sam;NEUGEBAUER, Robert Christoph~
 33:AU ~31:2023902058 ~32:29/06/2023
 2025/10652 ~ Complete ~54:STARTING RANDOM ACCESS CHANNEL OCCASION DETERMINATION FOR
 MULTIPLE PRACH TRANSMISSIONS FOR WIRELESS NETWORKS ~71:NOKIA TECHNOLOGIES OY,
 KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: CHIARELLO, Leonardo;MARCONE, Alessio;MASO,
 Marco;NHAN, Nhat-Quang~ 33:US ~31:63/502,406 ~32:15/05/2023;33:US ~31:63/580,872 ~32:06/09/2023
 2025/10654 ~ Complete ~54:ENHANCED CHANNEL STATE INFORMATION DERIVATION ~71:NOKIA
 TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: DEGHEL, Matha;TOSATO,
 Filippo~ 33:US ~31:63/467,374 ~32:18/05/2023
 2025/10667 ~ Complete ~54:METHODS OF TREATING CHRONIC GRAFT-VERSUS-HOST DISEASE USING
 AN ANTI-COLONY STIMULATING FACTOR 1 RECEPTOR ANTIBODY ~71:Incyte Corporation, 1801 Augustine
 Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: LOU, Shuyuan;TIAN, Chuan;YANG, Yan-
 ou~ 33:US ~31:63/528,398 ~32:23/07/2023;33:US ~31:63/607,809 ~32:08/12/2023
 2025/10677 ~ Provisional ~54:CREATIVE COVER ~71:NONHLANHLA DLAMINI, 11 RAPHIA PALM
 ARBORETUM RICHARDS BAY, South Africa ~72: NONHLANHLA DLAMINI~
 2025/10640 ~ Complete ~54:ARTIFICIAL FERMENTATION METHOD CAPABLE OF IMPROVING CIGAR
 AROMA FOR CIGAR TOBACCOS ~71:Yunnan Endian Technology Development Co., Ltd., No. 13 Longxiang
 Road, Chunhe Street, Hongta District, Yuxi City, Yunnan Province, 653100, People's Republic of China;Yuxi
 Vocational College Of Agriculture (Yunnan Tobacco Cultivation School), No. 41, Xiangjiazhuang, Yanhe Street,
 Hongta District, Yuxi City, Yunnan Province, 653106, People's Republic of China ~72: CHEN, Fei;GU, Xingbo;HE,
 Fuying;LI, Jia;SHEN, Yunhui;SUN, Shaobin;YU, Ziyun;ZHENG, Jian;ZHOU, Xiao;ZHU, Chen~
 2025/10641 ~ Complete ~54:ANTIBACTERIAL AND ANTI-OXIDATION PARTICLE FOR FILTER ROD, AND
 PRODUCTION METHOD THEREFOR ~71:Yunnan Endian Technology Development Co., Ltd., No. 13 Longxiang
 Road, Chunhe Street, Hongta District, Yuxi City, Yunnan Province, 653100, People's Republic of China;Yuxi
 Vocational College Of Agriculture (Yunnan Tobacco Cultivation School), No. 41, Xiangjiazhuang, Yanhe Street,
 Hongta District, Yuxi City, Yunnan Province, 653106, People's Republic of China ~72: CHEN, Fei;GU, Xingbo;HE,
 Fuying;LI, Jia;SHEN, Yunhui;SUN, Shaobin;YU, Ziyun;ZHENG, Jian;ZHOU, Xiao;ZHU, Chen~
 2025/10645 ~ Complete ~54:FORMULATIONS TO STABILIZE VIRUS-BASED THERAPEUTICS
 ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: DASS,
 Martin;ICKENSTEIN, Ludger Markus;KRIEHLUBER, Thomas;REICHE, Katharina~ 33:EP ~31:23173808.9
 ~32:17/05/2023
 2025/10646 ~ Complete ~54:FORMULATIONS TO STABILIZE VIRUS-BASED THERAPEUTICS
 ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: DASS,
 Martin;ICKENSTEIN, Ludger Markus;KRIEHLUBER, Thomas;SACHERL, Julia~ 33:EP ~31:23173810.5
 ~32:17/05/2023
 2025/10649 ~ Complete ~54:ADVANCED BRAKING SYSTEM FOR WORK MACHINES ~71:CATERPILLAR
 GLOBAL MINING EQUIPMENT LLC, 3501 N. FM Hwy 1417, Denison, United States of America ~72: LANE,
 Cameron T.;OLSON, Andrew J.;SCHNEIDER, Karl P.~ 33:US ~31:18/209,860 ~32:14/06/2023
 2025/10656 ~ Complete ~54:APPARATUS, METHOD, AND SYSTEM FOR RETROFITTING A LIGHTING
 SYSTEM WITH UPLIGHTING ~71:MUSCO CORPORATION, 100 1ST AVENUE WEST, OSKALOOSA, IOWA
 52577, USA, United States of America ~72: DEBOEF, Joel D.;HOL, Philip D.;LICKISS, Chris P.;MCKEE, Luke
 C.~ 33:US ~31:63/578,481 ~32:24/08/2023
 2025/10658 ~ Complete ~54:TRANSFER VEHICLE, SYSTEM AND LOGISTIC METHOD ~71:SLEIPNER
 GROUP OY, Puistokatu 2 A, Finland ~72: HÖYLÄ, Teijo;MIETTINEN, Joonas~ 33:FI ~31:20235801
 ~32:06/07/2023
 2025/10666 ~ Complete ~54:LAMINATE WITH ANTI-SPLINTER LAYER ~71:Lignum Technologies AG,
 Rütihofstr.1, NIEDERTEUFEN 9052, SWITZERLAND, Switzerland ~72: DÖHRING, Rainer~
 2025/10668 ~ Complete ~54:SECURITY THREAT DETECTION ~71:ENTERSEKT INTERNATIONAL LIMITED,
 Level 3, Alexander House, 35 Cybercity, Mauritius ~72: OOSTHUIZEN, Gerhard Gysbert~
 33:ZA ~31:2023/07279 ~32:21/07/2023
 2025/10674 ~ Complete ~54:MASSAGE MATTRESS ~71:HEALTH DIGITAL TECHNOLOGY (HAINAN) CO.,
 LTD., 323, Floor 3, Building 5, Yabulun Industrial Park, Yazhou Bay Science and Technology City, Yazhou
 District, Sanya,, People's Republic of China ~72: CHEN, Ayu~ 33:CN ~31:202322643549.X ~32:27/09/2023
 2025/10676 ~ Provisional ~54:SLIDE-ON REUSABLE HANDLE FOR CARTON CONTAINERS ~71:TETRAGRIP
 PTY LTD-2025/813953/07, 76 FICHAT STREET, South Africa ~72: CHANTELLE O'MOORE ID
 8101140027085;PIETER NICOLAAS VILJOEN DE LANGE ID 4005055085083~

2025/10630 ~ Provisional ~54:REINFORCED CONCRETE BUILDING BLOCK ~71:JUANRUE CRONJE INVESTMENTS (PTY) LTD, 59 Durmonte Street, Durmonte, South Africa ~72: CRONJE, Juanrue~

2025/10631 ~ Provisional ~54:MICROBIAL SEED-APPLIED COMPOSITIONS AND METHODS FOR IMPROVING SEED GERMINATION AND PROTECTING GERMINATING SEEDS FROM PATHOGENS ~71:Probipher (Pty) Ltd, 35 BRICKFIELD ROAD, South Africa ~72: Deon Pieter Neveling~

2025/10633 ~ Provisional ~54:WINDOW RELEASE SYSTEM FOR CONSTRUCTION MACHINERY ~71:BOTHA, Luan, 12 TARENTAAL STREET, KRIEL, 2271, SOUTH AFRICA, South Africa ~72: BOTHA, Luan~

2025/10634 ~ Provisional ~54:ROLLER ~71:WILVIC PLASTICS CC, 5 Hammer Street Boltonia, West Krugersdorp, South Africa ~72: BAREND JACOBUS BOGDANOVIC~

2025/10635 ~ Provisional ~54:S.E.A.L. (SMART ENVIRONMENTAL ADHESIVE LIQUID) TYRE SEALANT ~71:Deon Lourens Riekert, 18 Framesby Plein, Sandra Street, Framesby, Port Elizabeth, Eastern Cape, 6045, South Africa ~72: Deon Lourens Riekert~

2025/10639 ~ Complete ~54:CUTTING FLUID COOLING DEVICE FOR NUMERICAL CONTROL MACHINE TOOLS ~71:SHANGHAI MARITIME UNIVERSITY, 1550 Haigang Avenue, Lingang Xincheng, Pudong New Area, Shanghai, 201306, People's Republic of China ~72: HUANG Junyu;LEI Jiaan;LIN Zhenwei;XU Le;ZANG Zhaoliang~ 33:CN ~31:2025112101961 ~32:27/08/2025

2025/10647 ~ Complete ~54:MODULAR FLOATING MOUNT FOR A FLOATING SOLAR POWER PLANT ~71:TPS GLOBAL (PTY) LIMITED, 49 Bakwena Avenue, Irene, South Africa ~72: CORBETTA, Matteo;STEGEN, Bastian;SWARDT, Nicholas Jacobus;WILD, Wayne Henry~ 33:ZA ~31:2023/06193 ~32:13/06/2023

2025/10663 ~ Complete ~54:INTUMESCENT COATINGS BASED ON POLY-AZA MICHAEL ADDITION CHEMISTRY ~71:Sherwin-Williams Coatings Deutschland GmbH, Paul Gerhardt Strasse 31, WUPPERTAL 42389, GERMANY, Germany ~72: SCHULZE, Gerd;VIERTEL, Johannes;ZIPPERLEN, Sabine~ 33:EP ~31:23179812.5 ~32:16/06/2023

2025/10672 ~ Complete ~54:FILTRATION APPARATUS AND METHOD OF CONTROLLING FILTRATION APPARATUS ~71:RENASYS AS, Øyrane 12, 6800, Førde, Norway ~72: ARNE MALMIN;TROND MELHUS~ 33:SE ~31:2350607-4 ~32:22/05/2023

2025/10678 ~ Provisional ~54:SYSTEM AND METHOD FOR SECURE ELEMENT-BASED BIDIRECTIONAL BRIDGE BETWEEN BLOCKCHAIN ASSETS AND MOBILE MONEY PLATFORMS WITH CRYPTOGRAPHIC VERIFICATION ~71:FRANCOIS PIERRE JOUBERT, 521,20th Ave, Rietfontein, Pretoria,, South Africa ~72: FRANCOIS PIERRE JOUBERT~

2025/10643 ~ Complete ~54:SLOW-RELEASE SOLID PARTICLE FOR FILTER ROD, AND PRODUCTION METHOD THEREFOR ~71:Yunnan Endian Technology Development Co., Ltd., No. 13 Longxiang Road, Chunhe Street, Hongta District, Yuxi City, Yunnan Province, 653100, People's Republic of China;Yuxi Vocational College Of Agriculture (Yunnan Tobacco Cultivation School), No. 41, Xiangjiazhuang, Yanhe Street, Hongta District, Yuxi City, Yunnan Province, 653106, People's Republic of China ~72: CHEN, Fei;GU, Xingbo;HE, Fuying;LI, Jia;SHEN, Yunhui;SUN, Shaobin;YU, Ziyun;ZHENG, Jian;ZHOU, Xiao;ZHU, Chen~

2025/10644 ~ Complete ~54:HORIZONTAL WET FLUE GAS DESULFURIZATION SYSTEM ~71:Shenyang Aluminum and Magnesium Engineering and Research Institute Co., Ltd., No. 184, Heping North Street, Heping District, Shenyang City, Liaoning Province, 110002, People's Republic of China;Shenyang Boyu Technology Co., Ltd., No. 176-1, Dingxiang Street, Sujiatun District, Shenyang City, Liaoning Province, 110101, People's Republic of China ~72: Chenchi OU;Chuanfu LI;Haichen SONG;Hongsheng HU;Wei LIU;Wenbo WANG;Xi CAO;Xuejiao LI;Zhuxin LIU~ 33:CN ~31:202510833108.7 ~32:20/06/2025

2025/10651 ~ Complete ~54:MELON PLANTS WITH RESISTANCE AGAINST TOLCNDV-ES ~71:NUNHEMS B.V., NAPOLEONSWEG 152, 6083 AB NUNHEM, NETHERLANDS, Netherlands ~72: BELLON DONA, Daniel;COCALIADIS CAISSON, Maria, Florencia;GALEANO MENDOZA, Carlos, Hernando;VAN DER VEEN, Wouter;VRIEZEN, Wim~ 33:US ~31:63/503,617 ~32:22/05/2023;33:EP ~31:23192710.4 ~32:22/08/2023

2025/10653 ~ Complete ~54:DISPLAY OVERLAY SYSTEM ~71:SHELTERED WINGS, INC. d/b/a VORTEX OPTICS, ONE VORTEX DRIVE, BARNEVELD, WI 53507, USA, United States of America ~72: BENSON, Christian;COLLINS, Alec;FARRELL, Ben;LOWRY, Will~ 33:US ~31:63/502,880 ~32:17/05/2023

2025/10662 ~ Complete ~54:COLORANT TABLETS ~71:SWIMC LLC, 101 W. Prospect Avenue, 1100 Midland - Legal Department, CLEVELAND 44115, OH, USA, United States of America ~72: SCHERER, Taco~ 33:US ~31:63/508,942 ~32:19/06/2023

2025/10671 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITING EXPRESSION OF COAGULATION FACTOR XI (FXI) ~71:SHANGHAI ARGO BIOPHARMACEUTICAL CO., LTD., J2026, Room 1_203, 337 Shahe Road, Jiangqiao Town, Jiading District, Shanghai, 201803, People's Republic of China ~72:

DONGXU SHU;PENGCHENG PATRICK SHAO;SHIWEI XIA~ 33:CN ~31:PCT/CN2023/095175
~32:19/05/2023

2025/10655 ~ Complete ~54:MOLYBDENUM-LINED CRUCIBLE ~71:X-ENERGY, LLC, 801 THOMPSON AVENUE, SUITE 300, ROCKVILLE, MARYLAND 20852, USA, United States of America ~72: LINEEEN, Nick~ 33:US ~31:18/317,627 ~32:15/05/2023

2025/10661 ~ Complete ~54:SOLID FORMS OF *N*-(METHOXYCARBONYL)-3-METHYL-L-VALYL-(4*R*)- *N*-{(1*S*)-1-CYANO-2-[(3*S*)-2-OXOPYRROLIDIN-3-YL]ETHYL}-4-(TRIFLUOROMETHYL)-L-PROLINAMIDE AND SOLVATES THEREOF ~71:Pfizer Inc., 66 Hudson Boulevard East, NEW YORK 10001-2192, NY, USA, United States of America ~72: ARORA, Kapildev Kashmirilal;GONZALEZ ESGUEVILLAS, Maria;KULKARNI, Samir;LI, Aifang;MEENAN, Paul Anthony;PATEL, Nandini;TICKNER, Jeanene Elizabeth;YANG, Xiaojing~ 33:US ~31:63/507,347 ~32:09/06/2023;33:US ~31:63/647,157 ~32:14/05/2024

2025/10665 ~ Complete ~54:LIPIDS FOR USE IN LIPID NANOPARTICLES ~71:Acuitas Therapeutics, Inc., 6190 Agronomy Road, Suite 405, VANCOUVER V6T 1Z3, BRITISH COLUMBIA, CANADA, Canada ~72: ARNS, Stephen Paul;GATENYO, Julia;TAN, Jason Samuel;YEREMY, Benjamin~ 33:US ~31:63/508,772 ~32:16/06/2023

2025/10670 ~ Complete ~54:GLUCOKINASE ACTIVATOR FOR COGNITIVE DISORDERS AND NEURODEGENERATIVE DISEASES ~71:HUA MEDICINE (SHANGHAI) LTD., 275 Ai Di Sheng Road, Pilot Free Trade Zone, People's Republic of China ~72: CHEN, Li;FENG, Lingge;NI, Jiangxia~ 33:CN ~31:202310662626.8 ~32:06/06/2023

2025/10675 ~ Complete ~54:SPHERICAL JOINT FACILITATING RAPID ASSEMBLY AND DISASSEMBLY ~71:CRRC ZHUZHOU MOTOR CO., LTD., Tianxin High-Tech Industrial Park, Shifeng District, Zhuzhou, People's Republic of China ~72: CHEN, Dawei;DENG, Xianping;HONG, Fengping;LI, Linhao;LONG, Yunfeng;OU, Xingzhuo;XIAO, Xiaoxuan;XIONG, Wenhao;YANG, Ying;ZHAO, Juncheng~ 33:CN ~31:202311719540.0 ~32:14/12/2023

2025/10648 ~ Complete ~54:TRACK JOINT ASSEMBLY RETAINER PLATE ~71:CATERPILLAR INC., 100 NE Adams Street, Peoria, United States of America ~72: ELLMANN, Thomas;LOEFFLER, Brian Konrad;PITMAN, Jacob John~ 33:US ~31:18/334,746 ~32:14/06/2023

2025/10660 ~ Complete ~54:MONITORING A VOLUME OF AN UNDERGROUND WORK SITE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: AHA, Liisa;PUURA, Jussi;VON ESSEN, Tomi~ 33:EP ~31:23182734.6 ~32:30/06/2023;33:EP ~31:23182735.3 ~32:30/06/2023

2025/10638 ~ Complete ~54:BIM-BASED BUILDING PIPELINE ARRANGEMENT DEVICE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan, People's Republic of China ~72: Jiajia LI;Kewang ZHU;Ning GUO;Qian WANG;Xiao LIU;Yanli LIU~

2025/10642 ~ Complete ~54:NATURAL BIOLOGICAL MATRIX PARTICLE FOR FILTER ROD, AND PRODUCTION METHOD AND APPLICATION THEREOF ~71:Yunnan Endian Technology Development Co., Ltd., No. 13 Longxiang Road, Chunhe Street, Hongta District, Yuxi City, Yunnan Province, 653100, People's Republic of China;Yuxi Vocational College Of Agriculture(Yunnan Tobacco Cultivation School), No. 41, Xiangjiazhuang, Yanhe Street, Hongta District, Yuxi City, Yunnan Province, 653106, People's Republic of China ~72: CHEN, Fei;GU, Xingbo;HE, Fuying;LI, Jia;SHEN, Yunhui;SUN, Shaobin;YU, Ziyun;ZHENG, Jian;ZHOU, Xiao;ZHU, Chen~

2025/10664 ~ Complete ~54:IMPROVEMENTS TO ELECTRO-SYNTHETIC OR ELECTRO-ENERGY CELLS ~71:Hysata Pty Ltd, 1 Darcy Road, PORT KEMBLA 2505, NORTH SOUTH WALES, AUSTRALIA, Australia ~72: COX, David John;EBRAHIMI, Atiyeh;HODGES, Aaron;SEARLE, Kieren;SHANKAR, Ganga;SWIEGERS, Gerhard Frederick;WARBURTON, Adam;YAP, Kai Jian~ 33:AU ~31:2023902150 ~32:05/07/2023;33:AU ~31:2024901199 ~32:29/04/2024

2025/10669 ~ Complete ~54:USER EQUIPMENT ARCHITECTURE ADAPTATION FOR INTRA-BAND SCENARIOS ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: CHEN, Yue Ji;DALSGAARD, Lars;DU, Lei;VASENKARI, Petri, Juhani~

2025/10632 ~ Provisional ~54:SYSTEM AND METHOD FOR CROSS-NETWORK RESOURCE SHARING IN MULTI-OPERATOR TELECOMMUNICATIONS ENVIRONMENT. ~71:Aubrey Modise, 192 Dube Street, South Africa ~72: Aubrey Modise~

2025/10650 ~ Complete ~54:TRANSMISSION CONFIGURATION INDICATOR (TCI) STATES FOR CELL SWITCH ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: GOYAL, Sanjay;KOSKELA, Timo;LADDU, Keeth, Saliya, Jayasinghe~ 33:US ~31:63/503,532 ~32:22/05/2023

2025/10673 ~ Complete ~54:REUSABLE INCONTINENCE UNDERPANTS FOR MEN ~71:SEAMPRIINT GMBH & CO. KG, Schulstrasse 8a, 82541, Münsing, Germany ~72: INGE SIEBERT;UDO SIEBERT~ 33:DE ~31:20 2023 103 023.8 ~32:01/06/2023

- APPLIED ON 2025/12/11 -

2025/10680 ~ Provisional ~54:CIVIC CUBE: A TOKENISED PRESENCE, APPOINTMENT, AND SERVICE FLOW VERIFICATION SYSTEM FOR CLINICS, NGOS, AND MUNICIPAL OPERATIONS ~71:Third Vision AI, Breakwater Apartments 1 Breakwater Boulevard, South Africa ~72: Erwin Coleman;Jayden Rejji;Jayshree Mallaya~ 33:ZA ~31:N/A ~32:10/12/2025

2025/10686 ~ Provisional ~54:A CIRCADIAN COGNITIVE ARCHITECTURE FOR HOMEOSTATIC MEMORY REGULATION, STOCHASTIC CONSOLIDATION, AND TOPOLOGICAL PRUNING IN GEOMETRIC ALGEBRA SYSTEMS ~71:Benjamin Derrick Spies, 27 Grace crescent, Beacon Bay, South Africa ~72: Benjamin Derrick Spies~

2025/10681 ~ Provisional ~54:LOW-COST RADIO-FREQUENCY JAMMING DETECTION SYSTEM AND METHOD USING RF ENVELOPE SENSING AND MICROCONTROLLER-BASED CLASSIFICATION ~71:Edmund Herbert, 38B Parrot Street, South Africa ~72: Edmund Herbert~ 33:ZA ~31:N/A ~32:10/12/2025
2025/10683 ~ Provisional ~54:DUAL-CONFIGURATION BAG HOLDER KIT ~71:PRINSLOO, David Craig, 20 Duminy Street, South Africa ~72: PRINSLOO, David Craig~

2025/10685 ~ Provisional ~54:AN EPISTEMIC SYSTEMS LAYER FOR DYNAMIC CERTAINTY MANAGEMENT, BELIEF REVISION, AND STABILITY CONTROL IN GEOMETRIC ALGEBRA COGNITIVE ARCHITECTURES ~71:Benjamin Derrick Spies, 27 Grace Crescent, Beacon Bay, South Africa ~72: Benjamin Derrick Spies~

2025/10684 ~ Provisional ~54:CARRYING AID ~71:PRINSLOO, David Craig, 20 Duminy Street, South Africa ~72: PRINSLOO, David Craig~

2025/10679 ~ Provisional ~54:ANCHOR BAND: A LOW-POWER PERSONAL SAFETY AND CIVIC PRESENCE VERIFICATION WEARABLE ~71:Third Vision AI (Pty) Ltd, Breakwater Apartments 1 Breakwater Boulevard, South Africa ~72: Erwin Coleman;Jayden Rejji;Jayshree Mallaya~ 33:ZA ~31:N/A ~32:10/12/2025

2025/10682 ~ Provisional ~54:SYSTEM AND METHOD FOR DIGITAL VEHICLE VERIFICATION AND CROSS-PLATFORM COMPLIANCE IN REGULATED TRANSPORTATION SERVICES. INTERNATIONAL PATENT CLASSIFICATION (IPC) G06Q 50/30 (2012.01) – TRANSPORTATION SERVICES H04W 4/02 (2018.01) – LOCATION-BASED SERVICES G06Q 20/14 (2012.01) – MOBILE PAYMENTS AND AUTHENTICATION H04L 67/52 (2022.01) – DYNAMIC USER INTERFACES AND SYNCHRONIZATION G06V 20/59 (2022.01) – VISUAL VERIFICATION AND MATCHING G06F 21/62 (2013.01) – ACCESS CONTROL AND AUTHENTICATION H04W 12/06 (2021.01) – AUTHENTICATION PROTOCOLS G06Q 30/0283 (2023.01) – DEMAND PREDICTION AND DYNAMIC PRICING COOPERATIVE PATENT CLASSIFICATION (CPC) G06Q 50/30 – TRANSPORTATION SERVICES H04W 4/02 – LOCATION-BASED SERVICES H04L 67/52 – REAL-TIME SYNCHRONIZATION BETWEEN DEVICES G06V 20/59 – CONTEXT-AWARE VISUAL VERIFICATION G06Q 20/329 – LOCATION-DEPENDENT AUTHENTICATION H04W 12/63 – LOCATION-DEPENDENT SECURITY G06F 21/32 – BIOMETRIC AUTHENTICATION G06Q 30/0283 – PRICE/DEMAND PREDICTION ALGORITHMS ~71:Aubrey Modise, 192 Dube Street, South Africa ~72: Aubrey Modise~

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

Application Number	Assignor	Assignee
2023/08742	HANSOH BIO LLC; SHANGHAI HANSOH BIOMEDICAL CO., LTD; and JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD.	JIANGSU HENGRUI PHARMACEUTICALS CO., LTD.
2023/04872	ANGITIA BIOMEDICINES LIMITED	ANGITIA INCORPORATED LIMITED
2024/01580	DERMBIONT, INC.	RINASCERA THERAPEUTICS, INC.
2025/01390	EVOLUTION VALVES (PTY) LTD	CRAFFORD, RYNO ADOLF
2024/09895	DAVIDS, O'BRIAN ANTHONY	MTAG HEALTH SOLUTIONS NAMIBIA (PTY) LTD

Application Number	Assignor	Assignee
2025/06310	SHANGHAI LANGBO COMMUNICATION TECHNOLOGY COMPANY LIMITED	APOGEE NETWORKS, LLC
2006/08781	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2015/05441	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2012/05503	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2013/05244	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2015/05442	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2010/06101	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2014/07106	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2024/07381	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2021/07829	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2007/08615	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2007/09451	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2007/09562	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2018/00606	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2008/03347	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2021/04915	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2024/02798	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2022/13958	JOHNSON MATTHEY PUBLIC LIMITED COMPANY	JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
2024/03473	HENAING JOHANNES ELS, HSE ESTHER PRETORIUS	EPD TECHNOLOGIES (PTY) LTD
2009/01395	SANOFI	SANOFI-AVENTIS U.S. LLC
2013/02666	THE GOODYEAR TIRE & RUBBER COMPANY	G-3 CHICKADEE PURCHASER, LLC
2020/06549	NERVIANO MEDICAL SCIENCES, INC.	RIBON THERAPEUTICS INC.
2019/00838	MITSUBISHI TANABE PHARMA CORPORATION	OPEN INNOVATION PARTNERS, INC.
2020/06158	MITSUBISHI TANABE PHARMA CORPORATION	OPEN INNOVATION PARTNERS, INC.
2017/00518	BAYER CROPSCIENCE AKTIENGESELLSCHAFT	DISCOVERY PURCHASER CORPORATION
2011/09063	CALAMARI FISHING (PTY)	BLUE CONTINENT PRODUCTS (PTY) LIMITED

Application Number	Assignor	Assignee
2018/08324	COLOREEL INTERNATIONAL HOLDINGS LIMITED and HONG KONG SINCETECH GROUP CO., LTD.	COLOREEL INTERNATIONAL HOLDINGS LIMITED
202408583	NESS THERAPEUTICS, INC.	MONDEGO BIO, LDA.
2019/01620	COLOREEL INTERNATIONAL HOLDINGS LIMITED and HONG KONG SINCETECH GROUP CO., LTD.	COLOREEL INTERNATIONAL HOLDINGS LIMITED
2011/09063	CALAMARI FISHING (PTY) LTD	BLUE CONTINENT PRODUCTS (PTY) LIMITED
2023/09241	KERECIS EHF	COLOPLAST A/S
2012/03175	KERECIS EHF	COLOPLAST A/S
2023/09239	KERECIS EHF	COLOPLAST A/S
2025/02951	BEIJING YUNLING BIO-TECHNOLOGY CO., LTD	NATIONAL INSTITUTES FOR FOOD AND DRUG CONTROL
2024/08520	TANGSHAN UNIVERSITY	HUAZHI ELECTRIC TECHNOLOGY (BEIJING) CO., LTD.
2022/13673	THE FIRST AFFILIATED HOSPITAL OF CHONGQING MEDICAL UNIVERSITY	CHONGQING HAOHUXI MEDICAL DEVICES CO., LTD

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2024/05534	CRE8 TECHNOLOGIES LIMITED	CHANGING STATE TECHNOLOGIES LIMITED
2022/08235	BIOATLA, LLC	BIOATLA, INC.
2009/01395	SANOFI-AVENTIS	SANOFI
2021/03438	8082464 CANADA INC.	9539-7337 QUEBEC INC.

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
2023/03106	WITHDRAWN	28/11/2025
2025/09899	WITHDRAWN	28/11/2025
2024/07267	WITHDRAWN	24/11/2025
2024/06467	WITHDRAWN	23/10/2025
2024/06466	WITHDRAWN	19/11/2025
2024/07167	WITHDRAWN	18/09/2025
2024/09015	WITHDRAWN	27/11/2025

APPLICATION FOR RESTORATION OF A LAPSED PATENT

No records available

THE PATENTS ACT, No. 57 OF 1978**VOLUNTARY SURRENDER OF A PATENT UNDER SECTION 64 (1), REGULATION 67 OF THE ACT**

No records available

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: Prodigy Biotech of 719 Bradford Terrace West Chester, Pennsylvania 19382, United States of America. Request permission to amend the specification of letters patent no: **2023/10022** of **26 OCTOBER 2023** for **HYPERIMMUNIZED EGG PRODUCT FOR TREATING OR PREVENTING ALCOHOLIC LIVER DISEASE AND GRAFT-VERSUS-HOST DISEASE.**

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

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

Registrar of Patents

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. **(D43)** 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: 2017/03241. 22: 2017/05/10. 43: 2025/10/27

51: C07K; C12N; C12P

71: Chugai Seiyaku Kabushiki Kaisha

72: RUIKE, Yoshinao, SAMPEI, Zenjiro

33: JP 31: 2014-257647 32: 2014-12-19

54: ANTI-C5 ANTIBODIES AND METHODS OF USE

00: -

An objective of the invention is to provide anti-C5 antibodies and methods of using the same. The invention provides anti-C5 antibodies and methods of using the same. In some embodiments, an isolated anti-C5 antibody of the present invention binds to an epitope within the beta chain of C5 with a higher affinity at neutral pH than at acidic pH. The invention also provides isolated nucleic acids encoding an anti-C5 antibody of the present invention. The invention also provides host cells comprising a nucleic acid of the present invention. The invention also provides a method of producing an antibody comprising culturing a host cell of the present invention so that the antibody is produced. The invention further provides a method of producing an anti-C5 antibody comprising immunizing an animal against a polypeptide which comprises the MG1-MG2 domain of the beta chain of C5. Anti-C5 antibodies of the present invention may be for use as a medicament.

21: 2018/02330. 22: 2018/04/10. 43: 2025/10/16

51: A01C; A01N; A01P; C09D; C12N; C12R

71: Novonesis Plant Biosolutions A/S

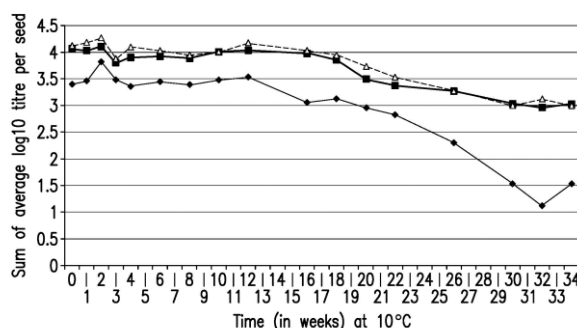
72: KELLAR, Kenneth Edmund, KANG, Yaowei, PELLIGRA, Claire, BARNETT, Emily, BURKLEW, Caitlin, WYSINSKI, Anna, LELAND, Jarrod, DOUGHAN, Ben, FETHE, Michael Harrison, TRAHAN, Ashley Delanie, GREENSHIELDS, Dave, WOODS, Kristi

33: US 31: 62/217,250 32: 2015-09-11

54: STABLE INOCULANT COMPOSITIONS AND METHODS FOR PRODUCING SAME

00: -

The present disclosure provides non-aqueous inoculant compositions and methods for enhancing the survival and/or stability of microbial spores in an inoculant composition. In some embodiments, inoculant compositions of the present disclosure comprise microbial spores, one or more dispersants, one or more dust suppressants and a solid non-aqueous carrier.



21: 2018/02331. 22: 2018/04/10. 43: 2025/10/16

51: A01C; A01N; A01P; C09D; C12N; C12R

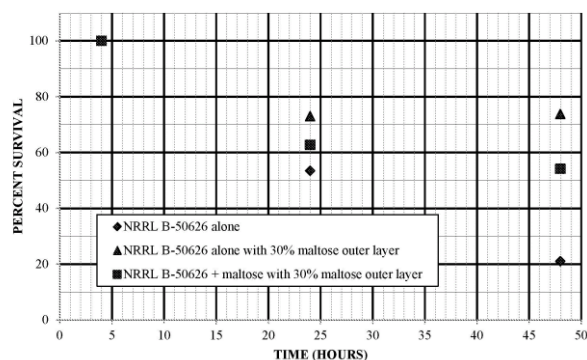
71: Novonesis Plant Biosolutions A/S
 72: KELLAR, Kenneth Edmund, KANG, Yaowei, PELLIGRA, Claire, BARNETT, Emily, BURKLEW, Caitlin, WYSINSKI, Anna, LELAND, Jarrod, DOUGHAN, Ben, FETHE, Michael Harrison, TRAHAN, Ashley Delanie, GREENSHIELDS, Dave, WOODS, Kristi

33: US 31: 62/217,250 32: 2015-09-11

54: STABLE INOCULANT COMPOSITIONS AND METHODS FOR PRODUCING SAME

00: -

The present disclosure provides stable inoculant compositions and methods for enhancing the survival and/or stability of microorganisms in an inoculant composition. In some embodiments, the microorganisms in an inoculant compositions are stabilized by the presence of one or more maltodextrins having a dextrose equivalent value of about 15 to about 20.



21: 2018/05011. 22: 2018/07/25. 43: 2025/09/30

51: A63F; G06Q; G07F

71: MORET, Harold P

72: MORET, Harold P

33: US 31: 62/461,892 32: 2017-02-22

54: DOMINO WAGERING EVENT

00: -

A method of executing a wagering event provides a set of twenty-eight domino tiles playing cards, each of the tiles or cards having two value areas on each face, the tile face values in each value area ranging from 0-6. Player positions are dealt four cards or tiles and a community card or tile is dealt to a center position. Each of the four cards is associated with the community card if there is a common value area, and value areas that form multiples of five (5) between the four tiles individually and the community card are determined and at least one wager is resolved against a payable.

21: 2018/08371. 22: 2018/12/11. 43: 2025/09/30

51: G01R

71: Eaton Intelligent Power Limited

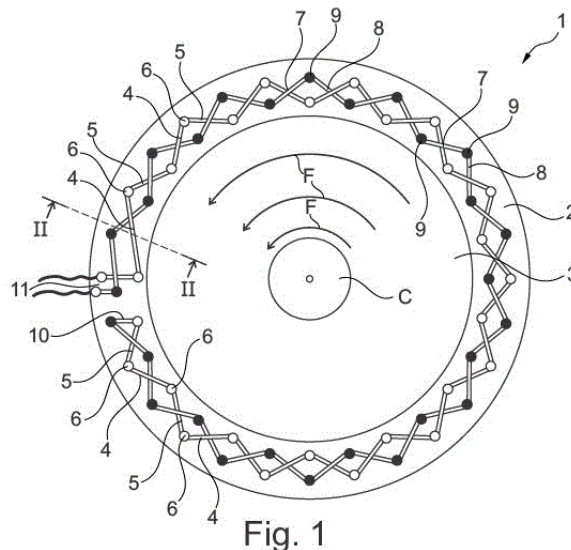
72: SCHOONENBERG, Gerard Cornelis, MORSKIEFT, Elisabeth Johanna Maria, VAN DEN BOGAARD, Wilhelmus Hubertus Maria

33: GB 31: 1721357.0 32: 2017-12-20

54: ROGOWSKI COIL

00: -

The invention relates to a Rogowski coil comprising:- a circuit board;- a first winding;- a second, return winding enveloped by the first winding; wherein the multilayer printed circuit board comprises a central passage opening for passage of a current conducting conductor, wherein the axes of the first and second winding are arranged concentric around the central passage opening, and wherein the first and second winding are electrically arranged in series; wherein the second, return winding is formed by a plurality of tracks arranged alternately on the inner top circuit board surface and the inner bottom circuit board surface, wherein the plurality of tracks are electrically connected by vias extending from the inner top circuit board surface to the inner bottom circuit board surface; and wherein the first and second winding have opposite direction of rotation around the respective axis.



21: 2019/00498. 22: 2019/01/24. 43: 2025/10/13

51: H01H

71: Eaton Intelligent Power Limited

72: ASKAN, Kenan

33: DE 31: 102018101677.8 32: 2018-01-25

54: LOW-VOLTAGE PROTECTIVE SWITCHING DEVICE


For a low-voltage protective switching device (1), wherein a mechanical bypass switch (8) and a first mechanical circuit breaker (9) are disposed in series in the line conductor length (2), wherein a second mechanical circuit breaker (10) is disposed in the neutral conductor length (5), wherein a first semiconductor switching arrangement (11) of the low-voltage protective switching device 1 is disposed in parallel relative to the bypass switch (8), wherein an electronic control unit (13) of the low-voltage protective switching device 1 is configured to presettably actuate the bypass switch (8), the first mechanical circuit breaker (9), the second mechanical circuit breaker (10) and the first semiconductor switching arrangement (11), wherein the first semiconductor switching arrangement (11) includes a snubber (24), which comprises a first capacitor (30), it is proposed that the first capacitor (30) is configured as an energy store for actuating the first circuit breaker (9) and the second circuit breaker (10) and that first capacitor (30) is connected via switching technology means to a first actuating arrangement (31) of the first circuit breaker (9) and the second circuit breaker (10).



71: Freddy Hirsch Group AG

33: GB 31: 1802277.2 32: 2018-02-12

00: -



Casing 11: deep fried

00: -

FIG. 4

33: AU 31: 2016903857 32: 2016-09-23

54: TANK LEVEL SENSOR

00: -

The present invention relates generally to a tank overfill protection system (10) designed to be installed in a tank (12). The tank overfill protection system (10) comprises a tank level sensor (14) operatively coupled to a flow control valve assembly (16). The flow control valve assembly (16) is connected to the level sensor (14) via a pilot line (18) which contains a bleed fluid for controlling closure of the flow control valve assembly (16). The tank level sensor (14) comprises a valve body (20), a pilot valve (22) mounted to the valve body (20), and a pilot valve actuator (24) operatively coupled to the pilot valve (22) for its opening and closure. The pilot valve actuator (24) includes a balance member (26) arranged to cooperate with actuator biasing means in the form of a pilot compression spring (28). The balance member (26) is in the form of a counterbalance and has a specific gravity relative to liquid or fuel within the tank (12) so that at least part submersion of the balance member (26) under the influence of the pilot compression spring (28) provides movement of the balance member (26) and closure of the pilot valve (22). This closure of the pilot valve (22) substantially closes and subsequently pressurises the bleed fluid in the pilot line (18) for closure of the flow control valve assembly (16).

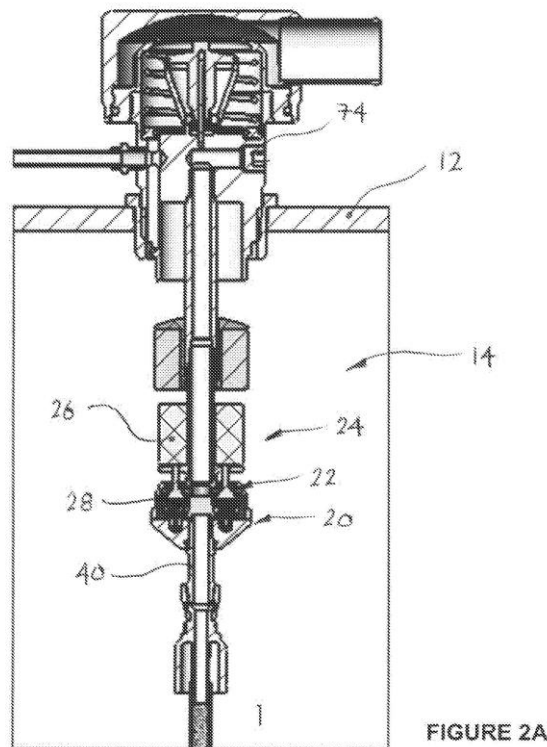


FIGURE 2A

21: 2019/06364. 22: 2019/09/26. 43: 2025/10/15

51: A61K; C07K

71: MERUS N.V.

72: THROSBY, MARK, GEUIJEN, CECILIA ANNA
WILHELMINA, MAUSSANG-DETAILLE, DAVID
ANDRE BAPTISTE, LOGTENBERG, TON

33: EP 31: 17164396.8 32: 2017-03-31

33: US 31: 15/476,260 32: 2017-03-31

54: ERBB-2 TARGETING AGENT AND A BISPECIFIC ANTIBODY WITH ANTIGEN-BINDING SITES THAT BIND AN EPITOPE ON AN EXTRACELLULAR PART OF ERB-2 AND ERBB-3, FOR TREATMENT OF AN INDIVIDUAL WITH AN ERBB-2, ERBB-2/ERBB-3 POSITIVE TUMOUR

00: -

The invention relates among others to antibodies comprising a first antigen-binding site that binds ErbB-2 and a second antigen-binding site that binds ErbB-3. The antibodies can typically reduce a ligand-induced receptor function of ErbB-3 on a ErbB-2 and ErbB-3 positive cell. Also described are method for the treatment and use of the antibodies in imaging and in the treatment of subjects having an ErbB-2, ErbB-3 or ErbB-2/3 positive tumor.

21: 2019/06610. 22: 2019/10/08. 43: 2025/11/28

51: A61K; C07K; A61P

71: ABLYNX N.V.

72: ZINZALLA, Vittoria, KUENKELE, Klaus-Peter, BUYSE, Marie-Ange, CROMIE, Karen, STAELENS, Stephanie, STRUBBE, Beatrijs

33: EP 31: 17173782.8 32: 2017-05-31

54: POLYPEPTIDES ANTAGONIZING WNT SIGNALING IN TUMOR CELLS

00: -

The invention provides novel LRP5-binding polypeptides, and more specifically novel LRP5-binding immunoglobulin single variable domain constructs which can inhibit Wnt signaling pathways. The invention also relates to specific sequences of such polypeptides, methods of their production, and methods of using them, including methods of treatment of diseases such as cancer.

21: 2019/07972. 22: 2019/11/29. 43: 2025/10/01
51: A61G

71: Arjo IP Holding Aktiebolag

72: PATRY, Jocelyn, CUSTEAU-BOISCLAIR, Olivier, FAUCHER, Martin, LEDUC, Michel, LAPOINTE, Francis

33: US 31: 62/492,819 32: 2017-05-01

54: RECEIVING MODULE FOR CEILING PATIENT LIFT SYSTEM

00: -

A receiving module for a ceiling patient lift including a housing defining an internal cavity configured to hold a motor unit, a door hingedly connected to a side face of the housing, the door movable between an open position and a closed position, a slider element operatively connected to the housing, at least one retaining member connected to the slider element and slidably receiving in a side face of the housing, at least one counter support provided on an upper surface of the housing, and at least one ramp member provided in the internal cavity of the housing.

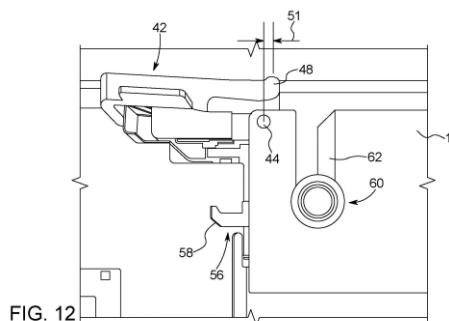


FIG. 12

21: 2020/02740. 22: 2020/05/13. 43: 2025/10/17

51: C07D; A61P; A61K

71: ACTUATE THERAPEUTICS, INC.

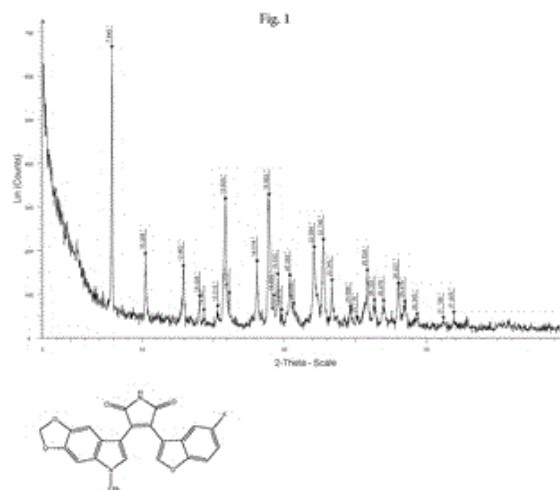
72: ZHANG, YAMIN

33: US 31: 62/572,603 32: 2017-10-16

54: SOLID FORMS OF 3-(5-FLUOROBENZOFURAN-3-YL)-4-(5-METHYL-5H-[1,3]DIOXOLO[4,5-F]INDOL-7-YL)PYRROLE-2,5-DIONE

00: -

The present disclosure relates to solid forms of 3-(5-Fluorobenzofuran-3-yl)-4-(5-methyl-5H-[1,3]dioxolo[4,5-f]indol-7-yl) pyrrole-2,5-dione, processes for preparation thereof, pharmaceutical compositions thereof, and uses thereof in treating disease.



21: 2020/03956. 22: 2020/06/29. 43: 2025/10/14

51: A61K; C07J

71: REGENERON PHARMACEUTICALS, INC.

72: HAN, AMY

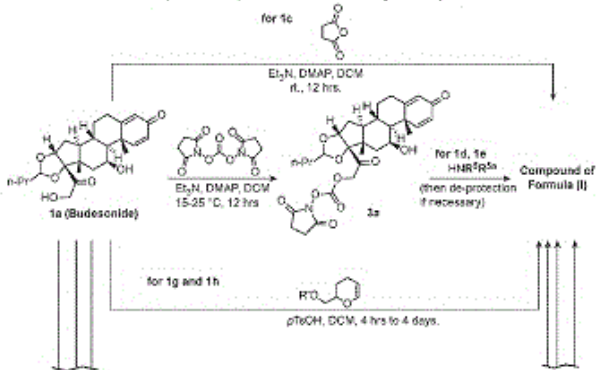
33: US 31: 62/614,905 32: 2018-01-08

54: STEROIDS AND ANTIBODY-CONJUGATES THEREOF

00: -

Described herein protein steroid conjugates that are useful, for example, for the target-specific delivery of glucocorticoids (GCs) to cells.

Scheme 1. Synthesis of Spacer-Budesonide 1c-1e, 1g-1i, and 1j-1l



21: 2020/04309, 22: 2020/07/14, 43: 2025/10/09

51: A61K A61P C07K

71: MERZ PHARMACEUTICALS, LLC

72: LIPP, Michael, M., CHAN, Holly

33: US 31: 62/609,277 32: 2017-12-21

54: SURFACTANT FORMULATIONS FOR INHALATION

00: -

The present invention is directed respirable, dry powder particle formulations of lung surfactants that optionally comprise surfactant proteins and/or polypeptide and that are formulated for delivery to the pulmonary system via inhalation.

21: 2020/04310. 22: 2020/07/14. 43: 2025/10/09

51: A61K C07K

71: MERZ PHARMACEUTICALS, LLC

72: LIPP, Michael, M., CHAN, Holly

33: US 31: 62/609,275 32: 2017-12-21

54: SURFACTANT FORMULATIONS FOR INHALATION

00: -

The present invention is directed respirable, dry powder particle formulations of lung surfactants that optionally comprise surfactant proteins and that are formulated for delivery to the pulmonary system via inhalation.

21: 2020/05326. 22: 2020/08/26. 43: 2025/10/03

51: C07D; A61P; A61K

71: MERCK PATENT GMBH

72: JORAND-LEBRUN, CATHERINE, BRUGGER,

NADIA, JOHNSON, THERESA

33: US 31: 62/652.981 32: 2018-04-05

54: HETEROARYL COMPOUNDS AS TYPE II IRAK INHIBITORS AND USES HEREOF

00: -

The present invention relates to compounds of Formula (I) and pharmaceutically acceptable compositions thereof, useful as IRAK inhibitors.

21: 2020/05592. 22: 2020/09/09. 43: 2025/10/08

51: A44B A61F

71: UVEX ARBEITSSCHUTZ GMBH

72: NEUBAUER, Bernd, SCHEMM, Daniel,

FRIEDLEIN, Uwe

33: DE 31: 10 2018 204 007.9 32: 2018-03-15

54: WEBBING STRAP DEVICE OF ADJUSTABLE LENGTH AND FUNCTIONAL DEVICE HAVING A WEBBING STRAP DEVICE

00: -

The invention relates to a webbing strap device (3) of adjustable length, comprising an adjusting belt anchor (4), an adjusting loop anchor (5) having an adjusting loop eyelet (25), a ladder-like slide member (6) having a first frame crossbar (8), a second frame crossbar (9) spaced apart from the first frame crossbar (8) and at least two intermediate crossbars (10) arranged between the first frame crossbar (8) and the second frame crossbar (9), and a webbing strap (7) fastened to the first frame crossbar (8) and the adjusting strap anchor (4). The webbing strap (7) extends between the at least two intermediate crossbars (10) through the slider (6) to form an adjusting loop (24). In the region of the adjusting loop (24) the webbing strap (7) extends through the adjusting loop eyelet (25).

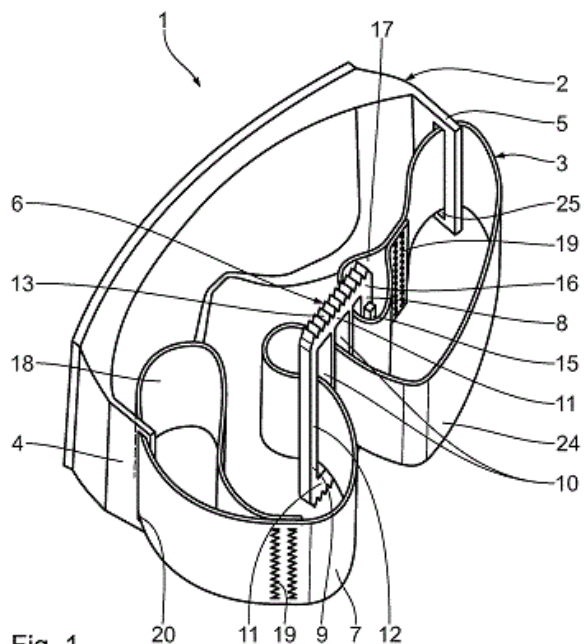


Fig. 1

21: 2020/05673. 22: 2020/09/11. 43: 2025/10/15

51: A61K; C07K

71: PRECIGEN, INC.

72: BROUGH, DOUGLAS E, BOLINGER, CHERYL G, YARLAGADDA, RAMYA, KURELLA, VINODHABU, PONRAJ, PRABAKARAN, METENOU, SIMON, DING, KUANG-FU

33: US 31: 62/639,354 32: 2018-03-06

54: HUMAN PAPILLOMAVIRUS VACCINES AND USES OF THE SAME

00: -

Provided herein are engineered human papilloma virus (HPV) molecular vaccine constructs. Vaccine constructs can also include ligand-inducible engineered gene switch systems for modulating expression of heterologous genes, such as a cytokines, in host cells.

21: 2020/05888. 22: 2020/09/23. 43: 2025/10/08

51: C07D A01N C05C C05G

71: BASF SE

72: NESVADBA, Peter, CUNNINGHAM, Allan, F., HINDALEKAR, Shrirang, NAVE, Barbara, POTHU, Tejas, WALLQUIST, Olof, WISSEMEIER, Alexander

33: EP 31: 18159321.1 32: 2018-02-28

54: USE OF N-FUNCTIONALIZED ALKOXY PYRAZOLE COMPOUNDS AS NITRIFICATION INHIBITORS

00: -

The present invention relates to the use of novel nitrification inhibitors of formula (I), which are N-functionalized alkoxy pyrazole compounds.

Moreover, the invention relates to the use of compounds of formula (I) as nitrification inhibitors, i.e. for reducing nitrification, as well as agrochemical mixtures and compositions comprising the nitrification inhibitors of formula (I).

21: 2020/06025. 22: 2020/09/29. 43: 2025/10/14

51: A61K

71: ETHRIS GMBH

72: DOHMEN, CHRISTIAN, BECK, PHILIPP

33: EP 31: 18169325.0 32: 2018-04-25

33: EP 31: 18189010.4 32: 2018-08-14

54: CRYOPROTECTIVE AGENTS FOR PARTICULATE FORMULATIONS

00: -

Provided is a composition comprising (i) a nano- or microparticle formulation of a therapeutically active agent which is suspended in a liquid phase, and (ii) at least one cryoprotective additive selected from C3-C5 alkanes substituted by one or two hydroxy groups which stabilizes the particle formulation. Further aspects relate to a solid composition which can be obtained by freezing the stabilized composition, and to processes for the preparation of the compositions in accordance with the invention.

21: 2020/06223. 22: 2020/10/07. 43: 2025/10/27

51: G01N

71: ETH ZÜRICH

72: KISIELOW, JAN, OBERMAIR, FRANZ JOSEF, KOPF, MANFRED

33: EP 31: 18167050.6 32: 2018-04-12

54: MAMMALIAN MHC PEPTIDE DISPLAY AS AN EPITOPE SELECTION TOOL FOR VACCINE DESIGN

00: -

The present invention relates to a method for identifying candidate peptides presented by major histocompatibility complex (MHC) for vaccination, induction of immunological tolerance, blocking of TCRs, MHC-mediated toxin delivery and redirecting T cells with CARs, for immunogenicity testing and other in vitro T-cell reactivity tests. The invention further relates to a method for determining the MHC binding affinity of candidate peptides.

21: 2020/06311. 22: 2020/10/12. 43: 2025/10/20
51: A61M

71: MCDERMOTT LABORATORIES LIMITED

72: HOLROYD, Michael, John, COCKER, Robin, Craig, COLLINS, James, Terence, MUTTI, Paul, Christopher, Edward, JACKSON, Daniel, Colin, NEWTON, Michael, Edgar

33: US 31: 62/642,281 32: 2018-03-13

54: DEVICES FOR INJECTING MEDICAMENTS AND METHODS OF USE

00: -

A device for injecting a medicament is provided. The device has a housing with a container within it which can hold a medicament. At its proximal end the container has a needle and a stopper. The device includes a plunger which at one end can engage the stopper. At the opposite end, the plunger can engage a first resilient member to move the stopper within the container to inject the medicament from the container. The device includes a collar with distal and proximal ends, the distal end engaging with a carriage and causing its rotation and the proximal end engaging with a second resilient member. The second resilient member can engage with a skin sensor which has distal and proximal ends. At the proximal end, the skin sensor can contact an injection site. The housing has a cap which can reduce or prevent movement of the skin sensor.

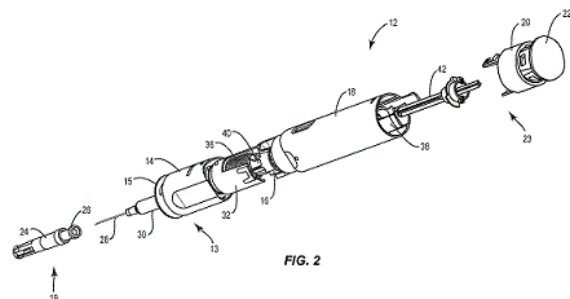


FIG. 2

21: 2020/06325. 22: 2020/10/12. 43: 2025/10/27
51: C07K; A61K; A61P

71: AFFIMED GMBH

72: TESAR, MICHAEL, ELLWANGER, KRISTINA, FUCEK, IVICA, REUSCH, UWE, ROSS, THORSTEN, KOCH, JOACHIM, RAJKOVIC, ERICH, TREDER, MARTIN

33: EP 31: 18167385.6 32: 2018-04-13

33: EP 31: 18190661.1 32: 2018-08-24

33: EP 31: 18167384.9 32: 2018-04-13

33: EP 31: 18190662.9 32: 2018-08-24

54: NK CELL ENGAGING ANTIBODY FUSION CONSTRUCTS

00: -

The invention relates to multispecific antigen-binding proteins for engaging natural killer (NK) cells for triggering NK cell cytotoxicity by engaging the CD16A (FcγRIIIA) expressed on NK cells, wherein the antigen-binding protein comprises at least two CD16A antigen-binding moieties and at least a further target antigen-binding moiety. The CD16A antigen-binding moiety comprises light chain and heavy chain variable regions linked one after another in a polypeptide chain and the variable region at the N-terminus of the polypeptide chain comprising the CD16A antigen-binding moiety is a light chain variable region.

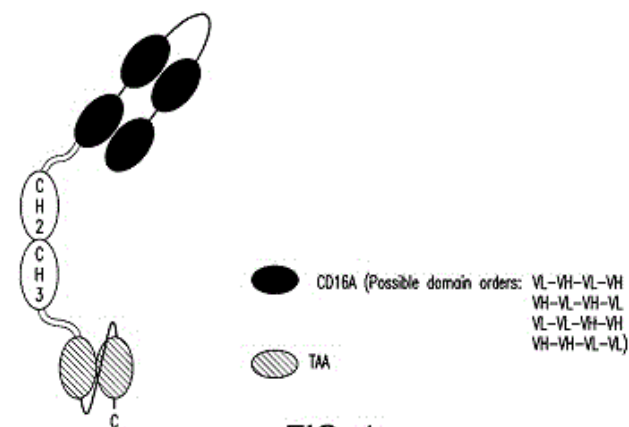


FIG. 1

21: 2021/00817. 22: 2021/02/05. 43: 2025/10/27
51: H04L

71: INTERDIGITAL PATENT HOLDINGS, INC.

72: EL HAMSS, AATA, MARINIER, PAUL, TOOHER, J. PATRICK, ALFARHAN, FARIS, PELLETIER, GHYSLAIN

33: US 31: 62/715,458 32: 2018-08-07

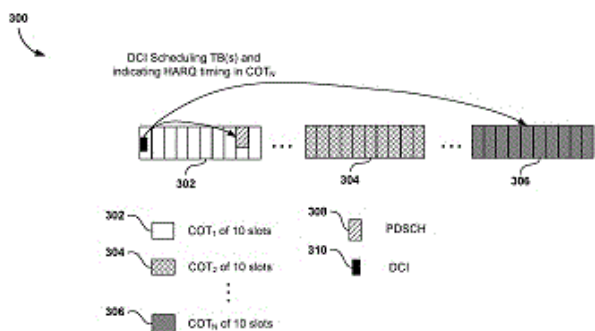
33: US 31: 62/788,424 32: 2019-01-04

54: METHODS AND APPARATUS FOR HARQ ENHANCEMENT

00: -

Method, apparatus, and systems for hybrid automatic repeat request (HARQ) enhancement in wireless communications are disclosed. In one representative embodiment, a method implemented in a wireless transmit/receive unit (WTRU) for wireless communications includes identifying a codebook process from a set of codebook processes based on a first indication, associating a set of bits of hybrid automatic repeat request (HARQ) feedback

with the identified codebook process, maintaining the set of bits associated with the identified codebook process based on a condition, receiving a second indication to transmit the set of bits associated with the identified codebook process, and transmitting the set of bits based on the second indication.



21: 2021/01718. 22: 2021/03/15. 43: 2025/09/29

51: A61K; A61P; C07D

71: Incyte Holdings Corporation

72: COMBS, Andrew P., MADUSKUIE Jr., Thomas P., FALAHATPISHEH, Nikoo

33: US 31: 61/983,289 32: 2014-04-23

54: 1H-PYRROLO[2,3-c]PYRIDIN-7(6H)-ONES AND PYRAZOLO[3,4-c]PYRIDIN-7(6H)-ONES AS INHIBITORS OF BET PROTEINS

00: -

The present invention relates to substituted pyrrolopyridinones and substituted pyrazolopyridinones which are inhibitors of BET proteins such as BRD2, BRD3, BRD4, and BRD-t and are useful in the treatment of diseases such as cancer.

21: 2021/02470. 22: 2021/04/14. 43: 2025/10/17

51: H02K

71: E-CIRCUIT MOTORS, INC.

72: SHAW, STEVEN ROBERT, MILHEIM, GEORGE HARDER

33: US 31: 62/754,051 32: 2018-11-01

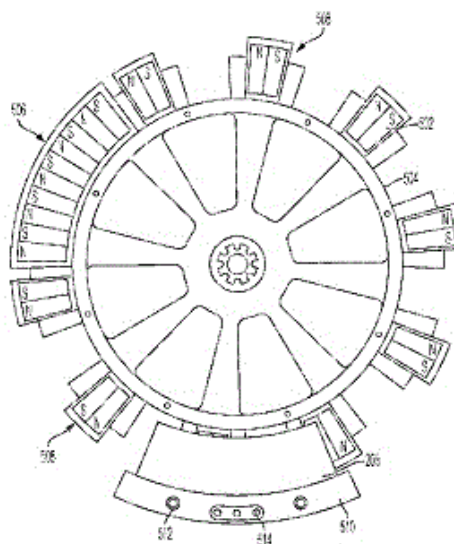
33: US 31: 16/665,763 32: 2019-10-28

54: STATOR AND ROTOR DESIGN FOR PERIODIC TORQUE REQUIREMENTS

00: -

Disclosed is a motor or generator comprises a rotor and a stator, wherein the rotor has an axis of rotation and is configured to generate first magnetic flux parallel to the axis of rotation, the stator is

configured to generate second magnetic flux parallel to the axis of rotation, and at least one of the rotor or the stator is configured to generate a magnetic flux profile that is non-uniformly distributed about the axis of rotation. Also disclosed is a method that involves arranging one or more magnetic flux producing windings of a stator non-uniformly about an axis of rotation of a rotor of an axial flux motor or generator.



21: 2021/05441. 22: 2021/07/30. 43: 2025/10/03

51: D21C

71: METSÄ FIBRE OY, ANDRITZ OY

72: POUKKA, ARI, TERVOLA, VELI-PEKKA

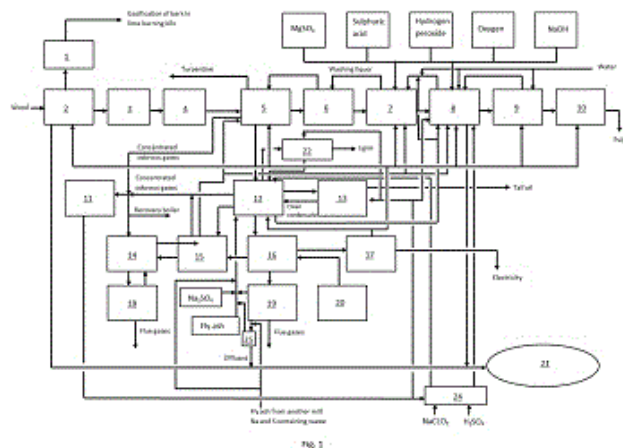
33: FI 31: 20195108 32: 2019-02-13

54: A METHOD OF REPLACING SODIUM LOSSES IN A PULP MILL, A METHOD OF PRODUCING BLEACHED CELLULOSIC PULP, AND A SYSTEM

00: -

According to an example aspect of the present invention, there is provided a method of replacing with sodium make-up chemicals sodium losses caused by outflows in a pulp mill which employs a kraft process for producing cellulosic pulp, wherein the pulp mill includes a unit for conversion of sulphurous compounds, which is fed with sulphurous substances of the kraft process to convert said sulphurous substances into oxidized sulphurous compounds, said method comprising using sodium sulphate possibly together with other sodium salts as the main make-up chemical, to achieve an essentially sodium hydroxide free feed of sodium make-up chemicals, and at least a part of the

sulphur contained in the sodium sulphate make-up
 chemical being used for producing oxidized
 sulphurous compounds in said unit for conversion
 of sulphurous compounds.



21: 2021/05754. 22: 2021/08/04. 43: 2025/09/29

51: A61F A61K C01B

71: NOXSANO INC.

72: WILLEY, Alan, SAMUEL, Stevan, ADAMS, Jacob, Robert

33: US 31: 62/791,317 32: 2019-01-11

54: ELECTROCHEMICAL GASOTRANSMITTER GENERATING COMPOSITIONS AND BIMETALLIC CELLS FOR THE GENERATION OF GASOTRANSMITTERS

00: -

A therapeutic dressing according to an embodiment includes a composition including an organic electrochemical mediator configured to reduce a gasotransmitter salt, and the gasotransmitter salt converting into a gasotransmitter upon reduction; a carrier adapted to contain the composition; and a bimetallic cell delivering current to the composition.

21: 2021/06017. 22: 2021/08/20. 43: 2025/10/03

51: A61K; C07K

71: RESEARCH INSTITUTE AT NATIONWIDE
CHILDREN'S HOSPITAL

72: RODINO-KLAPAC, LOUISE, MENDELL, JERRY
R

33: US 31: 62/810,917 32: 2019-02-26

33: US 31: 62/881,901 32: 2019-08-01

33: US 31: 62/910,779 32: 2019-10-04

33: US 31: 62/834,012 32: 2019-04-15

33: US 31: 62/909,564 32: 2019-10-02

33: US 31: 62/858,644 32: 2019-06-07

54: ADENO-ASSOCIATED VIRUS VECTOR DELIVERY OF B-SARCOGLYCAN AND THE TREATMENT OF MUSCULAR DYSTROPHY

00: -

Described herein are methods of treating muscular dystrophy comprising administering a recombinant AAV (rAAV) scAAVrh74.MHCK7.hSGCB vector, methods of expressing beta-sarcoglycan gene in a patient, pharmaceutical compositions comprising the rAAV, and methods of generating the rAAV.

21: 2021/06395. 22: 2021/09/01. 43: 2025/10/14

51: B01D; C02F

71: NEPTUNE BENSON, INC.

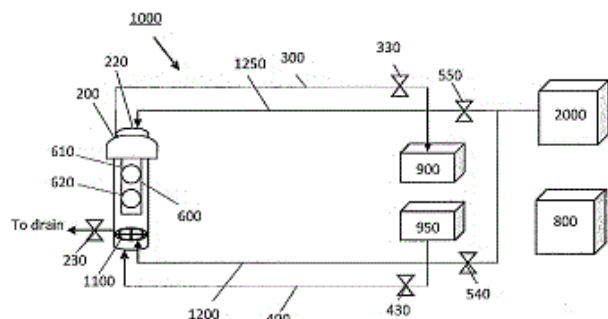
72: HAWKSLEY, STEVEN

33: US 31: 62/810,008 32: 2019-02-25

54: REGENERATIVE MEDIA FILTER AIR SCOURING APPARATUS AND METHOD

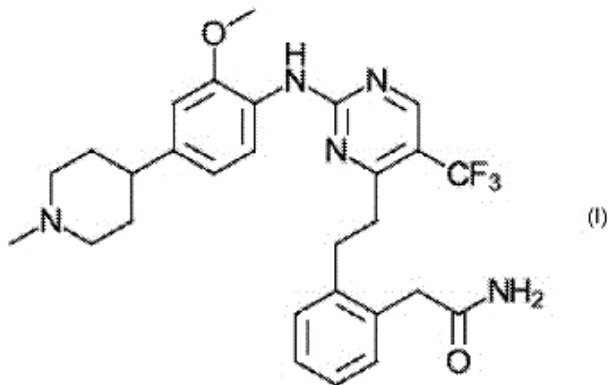
00: -

A water filtration system is also disclosed. The water filtration system includes a regenerative media filter vessel, a filtrate line, a feed line, a recirculation line, a gas line, and at least one pump. A method of filtering water in a system comprising a regenerative media filter is disclosed. The method includes operating the system in a filtration mode, operating the system in a cleaning mode responsive to a differential pressure measurement across the regenerative media filter, operating the system in an aeration mode, operating the system in a pre-filtration mode after operating the system in the cleaning mode, operating the system in a drain mode, and operating the system in the filtration mode following the drain mode. A controller and non-transitory computer-readable medium having computer-readable signals stored thereon that define instructions that, as a result of being executed by the controller, instruct the controller to perform a method of operating a water filtration system are disclosed.



21: 2021/06436. 22: 2021/09/02. 43: 2025/10/14
51: C07D; A61P; A61K
71: AMPLIA THERAPEUTICS LIMITED
72: BURNS, CHRISTOPHER, LAMBERT, JOHN
33: AU 31: 2019901050 32: 2019-03-28
**54: A SALT AND CRYSTAL FORM OF A FAK
INHIBITOR**

00: -
The present invention is directed to the tartrate salt
of a FAK inhibitor defined by formula (I) below, and
the use of that inhibitor for treating a proliferative
disease.



21: 2021/06627. 22: 2021/09/08. 43: 2025/10/15
51: A61K; A61P
71: H. LUNDBECK A/S
72: CADY, ROGER K, SMITH, JEFFREY T L,
HIRMAN, JOSEPH, SCHAEFFLER, BARBARA,
MEHTA, LAHAR
33: US 31: 62/872,989 32: 2019-07-11
33: US 31: 62/842,162 32: 2019-05-02
33: US 31: PCT/US2020/012781 32: 2020-01-08
**54: TREATMENT OF HEADACHE USING ANTI-
CGRP ANTIBODIES**

00: -
Methods for immediate relief of migraine or
headache are provided comprising the
administration of an anti-CGRP antagonist antibody

to a patient in need thereof. This invention pertains to methods of treatment of headache disorders, such as migraine, using antibodies and fragments thereof (including Fab fragments) that specifically bind to human Calcitonin Gene Related Peptide (hereinafter "CGRP").

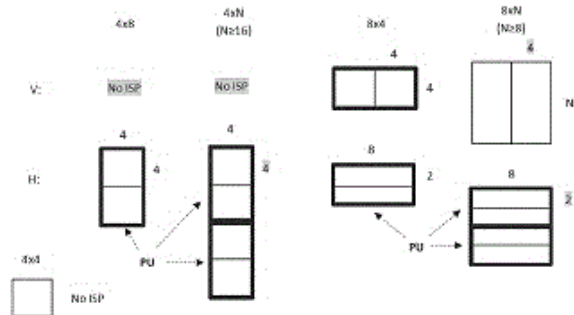
Figure 1A - Heavy Chain Protein Sequence

Sequence	FR1	CDR1	FR2	CDR2
Ab1	QSLSESGSLRTLPQTPTLTLTCTVSGDLDS	SYTYM	NVQAPAGKGLMWIG	VIGINDNTYTSKARKG
Ab2	EVQLVSSGGGLVQPGGSLRLSCAASGSDGLS	SYTYM	NVQAPAGKGLMWIG	VIGINDNTYTSKARKG
Ab3	EVQLVSSGGGLVQPGGSLRLSCAASGSDGLS	SYTYM	NVQAPAGKGLMWIG	VIGINDNTYTSKARKG
Ab4	QSLSESGSLRTLPQTPTLTLTCTVSGDLDS	GYTYN	NVQAPAGKGLMWIG	VIGINGATTYTSKARKG
Ab5	EVQLVSSGGGLVQPGGSLRLSCAASGSDGLS	GYTYN	NVQAPAGKGLMWIG	VIGINGATTYTSKARKG
Ab6	EVQLVSSGGGLVQPGGSLRLSCAASGSDGLS	GYTYN	NVQAPAGKGLMWIG	VIGINGATTYTSKARKG
Ab7	CDQLKSSGGSLRTLPQTPTLTLTCTVSGDGLS	NHNYQ	NVQAPAGKGLMWIG	VIGINGATTYTSKARKG
Ab8	EVQLVSSGGGLVQPGGSLRLSCAASGSDGLS	NHNYQ	NVQAPAGKGLMWIG	VIGINGATTYTSKARKG
Ab9	QSLSESGSLRTLPQTPTLTLTCTVSGDLDS	SYTYM	NVQSPAGKGLMWIG	VIGSGDNTYTSKARKG
Ab10	EVQLVSSGGGLVQPGGSLRLSCAASGSDGLS	SYTYM	NVQAPAGKGLMWIG	VIGINGATTYTSKARKG
Ab11	QSLSESGSLRTLPQTPTLTLTCTVSGDIDT	NYTYM	NVQAPAGKGLMWIG	VIGINGKRTYTSKARKG
Ab12	EVQLVSSGGGLVQPGGSLRLSCAASGSDIDT	NHNYQ	NVQAPAGKGLMWIG	VIGINGKRTYTSKARKG
Ab13	GSVKSSEGGGLVQPGGSLRLSCAASGSDIDT	SNAYN	NVQAPAGKGLMWIG	CYINGSDNTYTSKARKG
Ab14	EVQLVSSGGGLVQPGGSLRLSCAASGSDGLS	SYTYM	NVQAPAGKGLMWIG	VIGSGDNTYTSKARKG

21: 2021/06664. 22: 2021/09/09. 43: 2025/10/14
51: H04N
71: INTERDIGITAL VC HOLDINGS, INC.
72: YANG, HUA, VANAM, RAHUL, HE, YUWEN
33: US 31: 62/816,548 32: 2019-03-11
33: US 31: 62/860,122 32: 2019-06-11

54: INTRA SUB-PARTITIONS IN VIDEO CODING

00: -
Intra sub-partitions (ISP) may be enabled for a current block, for example, based on an ISP indication. The block may be partitioned into multiple sub-partitions, and a sub-partition may belong to a prediction unit (PU). A sub-partition width for the current block and a minimum prediction block width may be obtained. A PU corresponding to a current sub-partition may be determined based on the sub-partition width and the minimum prediction block width. For example, when the sub-partition width is less than the minimum prediction block width, the PU may include multiple sub-partitions. In examples, the minimum prediction block width may be four samples. Reference samples may be determined, and the PU may be predicted using the reference samples.

H: Horizontal Split
V: Vertical Split

21: 2021/06851. 22: 2021/09/17. 43: 2025/10/14

51: C07D

71: RELAY THERAPEUTICS, INC., D. E. SHAW RESEARCH, LLC

72: TAYLOR, ALEXANDER M, LESCARBEAU, ANDRÉ, KELLEY, ELIZABETH H, SHORTSLEEVES, KELLEY C, WALTERS, W. PATRICK, MURCKO, MARK ANDREW, MCLEAN, THOMAS H, GUNAYDIN, HAKAN, GIORDANETTO, FABRIZIO, THERRIEN, ERIC

33: US 31: 62/646,099 32: 2018-03-21

33: US 31: 62/661,902 32: 2018-04-24

33: US 31: 62/646,083 32: 2018-03-21

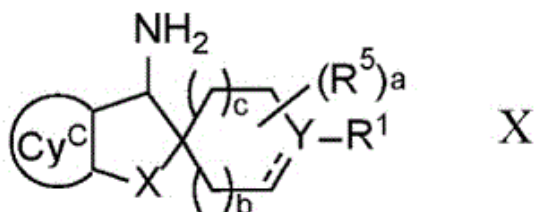
33: US 31: 62/649,834 32: 2018-03-29

33: US 31: 62/737,819 32: 2018-09-27

54: SHP2 PHOSPHATASE INHIBITORS AND METHODS OF USE THEREOF

00: -

The present disclosure relates to novel compounds selected from formula (X) and pharmaceutical compositions thereof, and compounds for use in treating a SHP2-mediated cancer, SHP2-mediated Noonan syndrome, juvenile leukemia, or juvenile myelomonocytic leukemia with the compounds and compositions of the disclosure. The present disclosure further relates to, but is not limited to, methods for inhibiting the activity of SHP2 phosphatase with the compounds and compositions of the disclosure.



21: 2021/06985. 22: 2021/09/20. 43: 2025/10/30

51: A61K A61P C07F A23L

71: INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, UNIVERSITE CLAUDE BERNARD LYON 1, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, UNIVERSITE JEAN MONNET SAINT ETIENNE

72: BODENNEC, Jacques, BELMEGUENAI, Amor, BODENNEC, Selena, BEZIN, Laurent, GEORGES, Béatrice, BLOT, Victor

33: EP 31: 19305212.3 32: 2019-02-21

33: EP 31: 19306376.5 32: 2019-10-23

54: STRUCTURED MOLECULAR VECTORS FOR ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF

00: -

The present invention relates to structured molecular vectors of formula (I), compounds of formula (II) and pharmaceutical compositions comprising such compounds. The invention also relates to such pharmaceutical compositions for use for preventing and/or treating a disease chosen among an inflammatory disease or a disease associated with a cognitive disorder. The invention further relates to such pharmaceutical compositions for use for preventing cognitive decline or restoring cognitive functions altered in brain injuries and/or in traumatic brain injuries and/or in a neuroinflammatory disease, and/or in a neurodegenerative disease.

21: 2021/06998. 22: 2021/09/20. 43: 2025/10/15

51: G06N; B82Y; H01L

71: POLLANEN, JOHANNES, BEYSENGULOV, NIYAZ, REES, DAVID

72: POLLANEN, JOHANNES, BEYSENGULOV, NIYAZ, REES, DAVID

33: US 31: 16/818,508 32: 2020-03-13

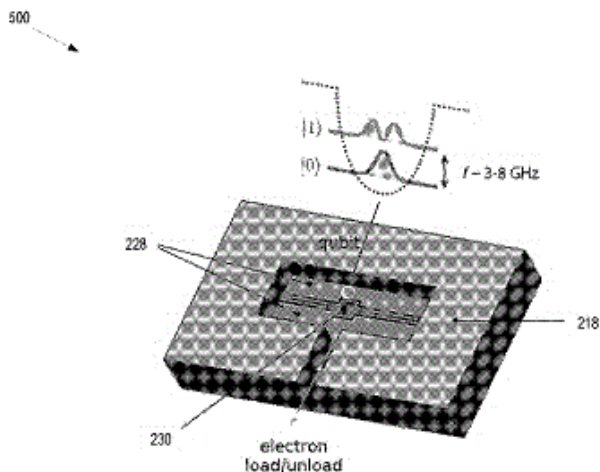
33: US 31: 62/825,466 32: 2019-03-28

54: QUBIT HARDWARE FOR ELECTRONS ON HELIUM

00: -

Disclosed is a system and a method to use the system that includes a substrate to support a film of liquid helium and an electron subsystem confined by image forces in a direction perpendicular to the surface of the film, a side gate to electrostatically define a boundary of the electron subsystem, a trap gate to electrostatically define an electron trap located outside the boundary of the electron subsystem, and a load gate to selectively open and close access from the electron subsystem to the electron trap, wherein to open access to the electron

trap is to apply a first load gate voltage to the load gate to allow the electrons to access the electron trap, and wherein to close access to the electron trap is to apply a second load gate voltage to the load gate to prevent the electrons from accessing the electron trap.



21: 2021/07041. 22: 2021/09/21. 43: 2025/10/14
51: A61K; A61P; C07K; C12N; C12Q
71: ONCOLYTICS BIOTECH INC.
72: WILKINSON, GREY
33: US 31: 62/809,190 32: 2019-02-22

54: T CELL REPERTOIRE DYNAMICS AND ONCOLYTIC VIRAL THERAPY

00: -

Provided herein are methods of treating cancer in a subject. The methods include administering to the subject one or more doses of an oncolytic virus (e.g., in an initial round of treatment); selecting a subject with a T-cell population exhibiting high peripheral clonality; and administering to the subject with a T-cell population exhibiting high peripheral clonality a one or more subsequent doses of the oncolytic virus (e.g., in a second round of treatment).

21: 2021/07300. 22: 2021/09/28. 43: 2025/10/14
51: A61K; A61P
71: LEO PHARMA A/S
72: NIELSEN, JACOB, PEDERSEN, GITTE
POMMERGAARD, MORTENSEN, HELENE,
SANDER, CAMILLA, REFER, PIA KLIE
33: EP 31: 19174586.8 32: 2019-05-15

54: TREATMENT OF CUTANEOUS LUPUS ERYTHEMATOSUS

00: -

The present invention relates to the treatment of cutaneous lupus erythematosus. The problem to be solved by the invention is to provide a new pharmaceutical use of 3-[(3S,4R)-3-methyl-6-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1,6-diazaspiro[3.4]octan-1-yl]-3-oxopropanenitrile. A therapeutic or preventive agent cutaneous lupus erythematosus, containing 3-[(3S,4R)-3-methyl-6-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1,6-diazaspiro[3.4]octan-1-yl]-3-oxopropanenitrile as an active ingredient, and a pharmaceutical formulation thereof.

21: 2021/07326. 22: 2021/09/29. 43: 2025/10/16
51: B03D
71: BASF SE
72: DICKIE, Scott, Alexander, BAI, Qian,
VILLANUEVA BERINDOAGUE, Adrian, Mauricio,
MICHAILOVSKI, Alexej
33: CN 31: PCT/CN2019/077005 32: 2019-03-05
33: EP 31: 19168108.9 32: 2019-04-09

54: COLLECTORS FOR BENEFICIATION

00: -

The presently claimed invention relates to a process for the beneficiation of coal and other hydrophobic materials, wherein a collector composition comprising by-products obtained by hydroformylation of octene isomers as a first component and diesel, kerosene and/or C8-C20 olefins as a second component is used.

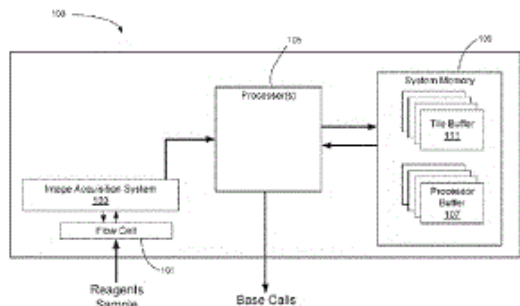
21: 2021/07541. 22: 2021/10/07. 43: 2025/10/31
51: G06F; C12Q
71: ILLUMINA, INC.
72: LANGLOIS, ROBERT, BELITZ, PAUL
33: US 31: 62/443,294 32: 2017-01-06

54: PHASING CORRECTION

00: -

A nucleic acid sequencer and a method of determining corrected color values from image data acquired, during a base calling cycle, by the nucleic acid sequencer. The nucleic acid sequencer comprises an image acquisition system, memory and one or more processors. The one or more processors are designed or configured to: (a) obtain data representing an image of a substrate comprising a plurality of sites where nucleic acid bases are read, wherein the sites exhibit colors representing nucleic acid base types; (b) obtain color values of the plurality of sites from the image of the

substrate; (c) store the color values in a processor buffer; (d) retrieve phasing-corrected color values of the plurality of sites for a base calling cycle, wherein the phasing-corrected color values were stored in the memory during an immediately preceding base calling cycle; and (e) determine corrected color values from (i) the color values in the processor buffer and (ii) the phasing corrected values stored during the immediately preceding cycle.



21: 2021/07777. 22: 2021/10/13. 43: 2025/10/27
51: A61K; A61P; C07D
71: MEI PHARMA, INC.
72: DUNCAN, DAVID FRANK
33: US 31: 62/832,637 32: 2019-04-11
54: VORUCICLIB POLYMORPHS AND METHODS OF MAKING AND USING THEREOF
00: -

The disclosure relates to crystalline solid forms of voruciclib, including voruciclib free base and various voruciclib salts, pharmaceutical compositions containing voruciclib crystalline solid forms, and methods for treating conditions or disorders by administering pharmaceutical compositions including voruciclib crystalline solid forms.

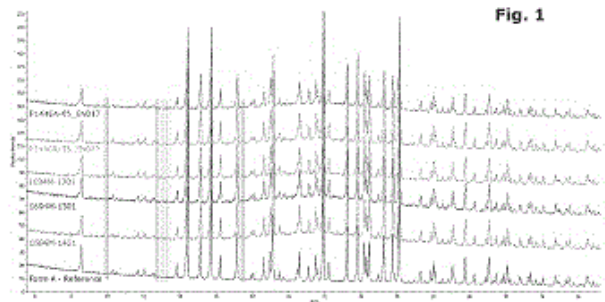


Fig. 1

21: 2021/07826. 22: 2021/10/14. 43: 2025/10/27
51: A61K; C07K
71: ZEALAND PHARMA A/S

72: GIEHM, LISE, EDWARDS, ALISTAIR VINCENT GORDON

33: EP 31: 19180233.9 32: 2019-06-14

54: PHARMACEUTICAL PARENTERAL COMPOSITION OF DUAL GLP1/2 AGONIST

00: -

The present invention relates to pharmaceutical compositions suitable for parenteral administration in human subjects. In particular, the present invention relates to isotonic pharmaceutical compositions for parenteral administration.

21: 2021/07890. 22: 2021/10/15. 43: 2025/10/27
51: C07D; A61K; A61P

71: HANMI PHARM. CO., LTD.

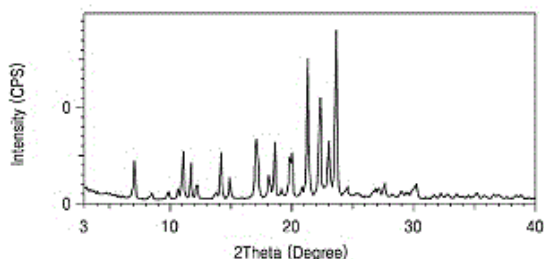
72: OH, HEE SOOK, JUNG, JAE HYUK, JEON, JI YOUNG, JANG, SUN YOUNG, HA, TAE HEE

33: KR 31: 10-2019-0037060 32: 2019-03-29

54: CRYSTAL FORM OF ACID ADDITION SALT OF PUROPYRIMIDINE COMPOUND

00: -

One embodiment relates to: a crystal form of an acid addition salt of N-(3-(2-(4-(4-methylpiperazine-1-yl)phenylamino)puro[3,2-d]pyrimidine-4-yl)oxy)phenyl)acrylamide; and a pharmaceutical composition comprising same. The crystal form can be easily used in the preparation of a pharmaceutical composition comprising same as an active ingredient.



21: 2021/09949. 22: 2021/12/03. 43: 2025/10/16
51: B03D; C22B

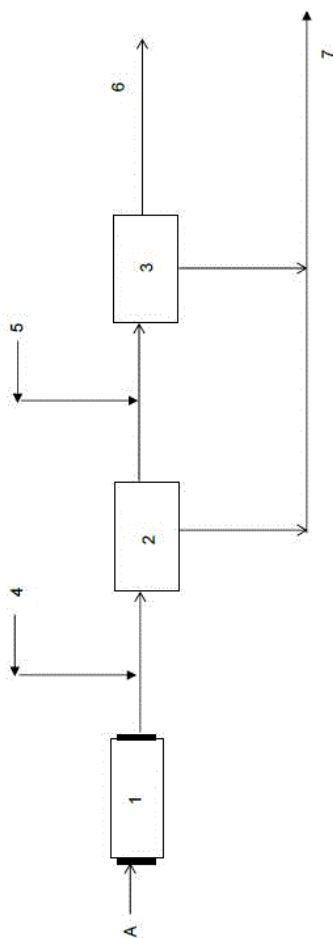
71: Nouryon Chemicals International B.V.

72: FOLCHNANDT, Matthias, KLOBES, Olaf, PICARDI, Ulises, GIMÉNEZ, Rodrigo M., PRATS, Leandro

33: EP(NL) 31: 20383076.5 32: 2020-12-10

54: M_vS_x/ZSH MIXTURE AS SULFIDIZING AGENT
00: -

The disclosure is directed to a sulfidizing agent obtainable by mixing M_yS_x and ZSH in a weight ratio of from 90:10 to 10:90, wherein M is selected from Li^+ , Na^+ , K^+ , Rb^+ , Cs^+ , NH_4^+ , Mg^{2+} or Ca^{2+} , y is 1 or 2, x is from 1.1 to 5, and Z is independently selected from Li^+ , Na^+ , K^+ , Rb^+ , Cs^+ and NH_4^+ , and a process for using the sulfidizing agent in the recovery of one or more metal ores and/or polymetallic minerals from gangue.



21: 2021/10438. 22: 2021/12/14. 43: 2025/10/03

51: F03B

71: VITALNRG, INC.

72: BARRETT, KEVIN, MCNABB, ARTHUR Q, MILLER-STEAD, ELDIN

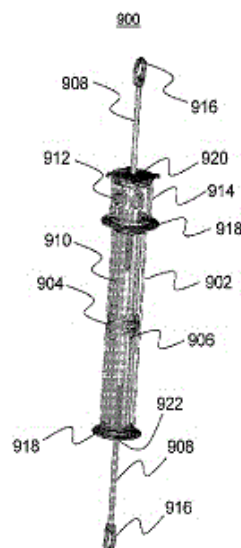
33: US 31: 62/849,074 32: 2019-05-16

54: ELONGATE WAVE ENERGY GENERATION DEVICES AND METHODS OF USING THE SAME

00: -

An elongate energy conversion device vertically oriented in a body of water with an oscillating core that converts wave movement into oscillating movement of a central housing, the housing including a set of ballscrews and threaded shafts which are then rotated and attached with generators to convert the rotational motion into electrical energy. The oscillating core is substantially enclosed by a movement resistant shell with a horizontally-

extending heave plate which actuates the core depending on whether the oscillating core is being pulled upward from an attached float impacted by a wave crest or downward from an attached weight during a wave fall.



21: 2022/00734. 22: 2022/01/14. 43: 2025/10/15

51: A61K; A61P; C07K

71: Scancell Limited

72: DURRANT, Linda Gillian, VANKEMMELBEKE, Mireille, PARSONS, Tina Rose

33: GB 31: 1910899.2 32: 2019-07-31

54: BINDING MEMBERS

00: -

The present invention relates to specific binding members, such as antibodies and fragments thereof, that are capable of specifically binding a Lewis Y (Le^y) carbohydrate. It also relates to the use of such binding members in medicine and to nucleic acids encoding such binding members.

21: 2022/01169. 22: 2022/01/25. 43: 2025/10/15

51: A61B

71: SIGNUS Medizintechnik GmbH

72: VAN DER POL, Bas

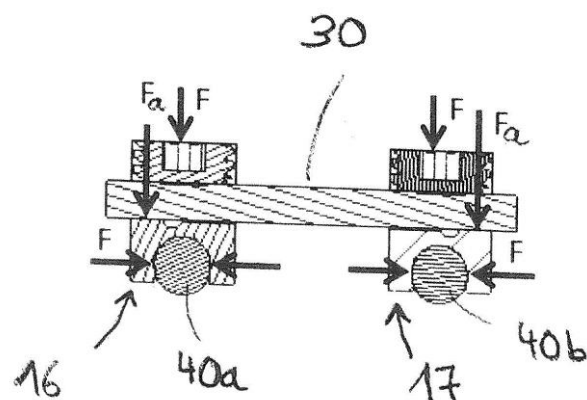
33: DE 31: 10 2019 005 376.1 32: 2019-07-30

54: CONNECTOR FOR SPINAL COLUMN SUPPORT

00: -

The invention relates to a connector (100) for connecting two supporting rods (40a, 40b) of a spinal column supporting device, which rods are placed or are to be placed along a portion of spinal column, said connector comprising a transverse rod (30), a first coupling (10a) which couples the

transverse rod to a first one of the supporting rods and a second coupling (10b) which couples the transverse rod to the second one of the supporting rods. At least one of the couplings has a clamping region (16, 17) which clamps the supporting rod with a clamping force and a force application means for generating an axial force which produces the clamping force, in particular in the form of an axial tensioning screw, the axial force being caused by screwing in of said screw, and the axial force being directed through the transverse rod.



21: 2022/01489. 22: 2022/02/02. 43: 2025/11/12

51: B60R

71: MILES, Shane

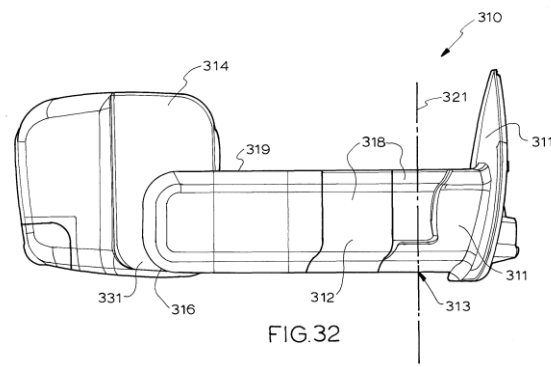
72: MILES, Shane

33: AU 31: 2019902836 32: 2019-08-08

54: VEHICLE MIRRORS

00: -

A towing mirror including a mount adapted to be mounted to a vehicle cabin, an extension component including a first member and a second member, one of said first and second members including one or more tracks and the other including one or more carriages, said one or more tracks and said one or more carriages being arranged such that said one or more carriages run on said one or more tracks whereby said second member may move linearly relative to said first member from a retracted position to an extended position and vice versa, and a mirror component operatively connected to said second member.



21: 2022/01595. 22: 2022/02/07. 43: 2025/10/06

51: A01N

71: Arysta Lifescience Inc.

72: BENNETT, Stephen Craig, BAATH, Bhupinder,

ZHANG, Hong, SECKINGER, Carlton Stephen,

HAWKINS, Emma Louise, FLOOD, Charlie James

33: US 31: 62/512,343 32: 2017-05-30

54: SAFENER CONTAINING HERBICIDAL OIL DISPERSION

00: -

AA safener containing herbicidal oil dispersion. An oil dispersion is described containing a base oil, an herbicide composition including a comprising flucarbazone sodium and/or fenoxaprop-p-ethyl, an herbicidal safener comprising cloquintocet-mexyl, and a carrier comprising an alkyl benzoate. The dispersion demonstrates enhanced dilution, and high and low temperature stability.

21: 2022/02538. 22: 2022/03/01. 43: 2025/10/07

51: C07C

71: FMC AGRO SINGAPORE PTE. LTD.

72: ZANARDI, GIAMPAOLO, MEREGHETTI,

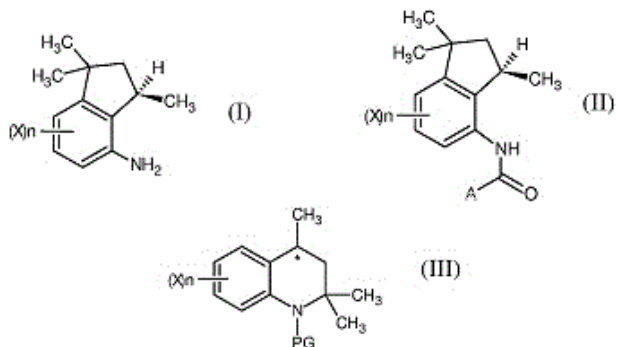
PIERANGELO, BELLANDI, PAOLO

33: IT 31: 102019000017330 32: 2019-09-26

54: PROCESS FOR PREPARING (R)-4-AMINOINDANE AND CORRESPONDING AMIDES

00: -

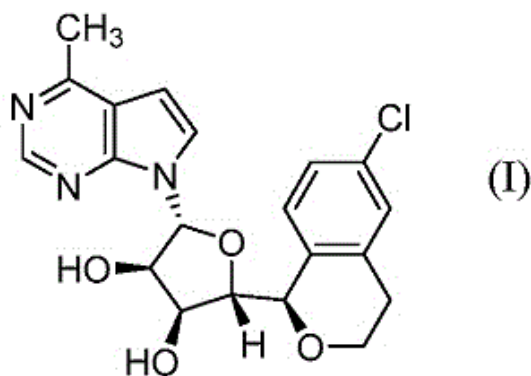
The present invention relates to a process for preparing 1,1,3-trimethylindan-4-amine of formula (I), or a salt thereof, enriched in one of its two enantiomers, in particular the enantiomer (R), (I) which comprises the chiral separation of an optionally substituted 2,2,4-trimethyl-1,2,3,4-tetrahydroquinoline of formula (III). The present invention also relates to a process for preparing optically active amides of formula (II), (II) starting from said compounds of formula (I).



21: 2022/03680. 22: 2022/03/30. 43: 2025/10/31
 51: C07H; A61P; A61K
 71: PRELUDE THERAPEUTICS, INCORPORATED
 72: CAO, GANFENG, LI, QUN, ZHANG, HUAPING, YU, HONGWU
 33: US 31: 62/902,322 32: 2019-09-18

54: SELECTIVE INHIBITORS OF PROTEIN ARGININE METHYLTRANSFERASE 5 (PRMT5)
 00: -

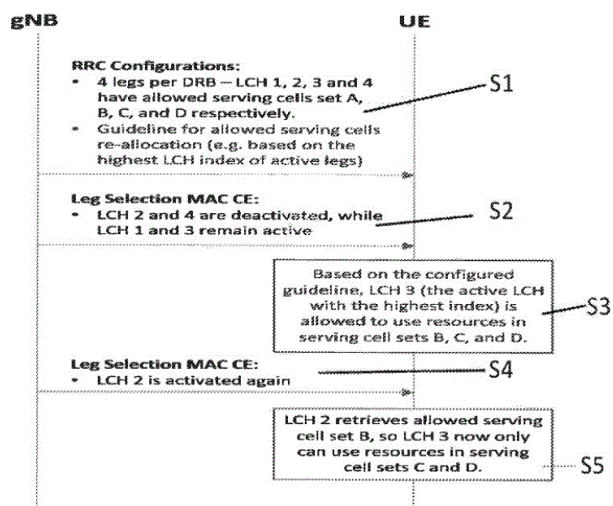
The disclosure is directed to pharmaceutically acceptable salts of the compound of Formula I (I). Pharmaceutical compositions comprising pharmaceutically acceptable salts of the compound of Formula I, as well as methods of their use and preparation, are also described.



21: 2022/04427. 22: 2022/04/20. 43: 2025/09/23
 51: H04W
 71: NOKIA TECHNOLOGIES OY
 72: WU, Chunli, TURPINEN, Samuli, SEBIRE, Benoist, KUO, Ping-Heng, KOZIOL, Dawid
54: APPARATUS, METHOD, AND COMPUTER PROGRAM

00: -
 An apparatus is provided in a communications device. The apparatus comprises at least one processor and at least one memory including

computer code for one or more programs. The at least one memory and the computer code are configured, with the at least one processor, to cause the apparatus to determine that at least one of a plurality of logical channels configured for packet duplication is to be deactivated; and determine an allocation of one or more cells associated with the at least one deactivated logical channel to one or more active logical channels of said plurality of logical channels configured for packet duplication.



21: 2022/05444. 22: 2022/05/17. 43: 2025/10/13
 51: A61K; A61P; C07D
 71: Sumitomo Pharma Co., Ltd.
 72: IDEUE, Eiji, KOMIYA, Masafumi, LEE, Shoukou, UESUGI, Shunichiro, FUNAKOSHI, Yuta
 33: JP 31: 2019-213860 32: 2019-11-27
54: CYCLOALKYL UREA DERIVATIVE
 00: -

The present invention pertains to a therapeutic agent or preventative agent against diseases involving an orexin receptor, and specifically, an orexin type-2 receptor, said agent containing a novel compound having a urea skeleton or a pharmaceutically acceptable salt thereof as an active ingredient. Specifically, the present invention pertains to a therapeutic agent or preventative agent against diseases such as narcolepsy, idiopathic hypersomnia, sleep apnea syndrome, and the like.

21: 2022/06201. 22: 2022/06/03. 43: 2025/10/15

51: F03B; F03G; G01C

71: ENI S.P.A.

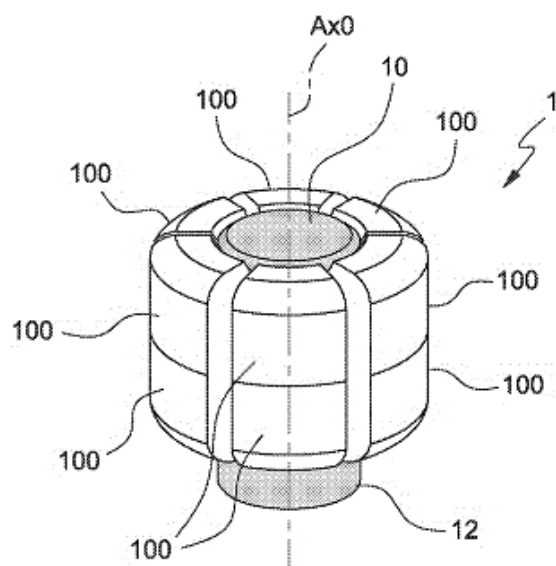
72: MICHETTI, VINCENZO, MATTIAZZO, GIULIANA, BRACCO, GIOVANNI, CARAPELLESE, FABIO, SIRIGU, SERGEJ ANTONELLO, BONFANTI, MAURO

33: IT 31: 102019000023280 32: 2019-12-06

54: POWER GENERATOR

00: -

Power generator (1) comprising a box-shaped body (10) having an inner chamber (18) containing a first gyroscopic device (20) comprising a first frame (22) hinged to the body (10) around a first axis (AX1); a first gyroscope (24) being carried by the first frame (22) in a rotatable manner around a second axis (AX2) perpendicular to the first axis (AX1); a first actuator (26) being carried by the first frame (22) to rotate the first gyroscope (24) around the second axis (AX2); a first converter device (30) of rotation mechanical energy into electric energy being mechanically coupled to said first frame (22); the first converter device (30) being connected to a stabilizing device (40); a second gyroscopic device (50) comprising a second frame (52) hinged to the body (10) around a third axis (AX3) transversal to the first axis (AX1).



21: 2022/06753. 22: 2022/06/17. 43: 2025/09/18

51: E04B; E04C

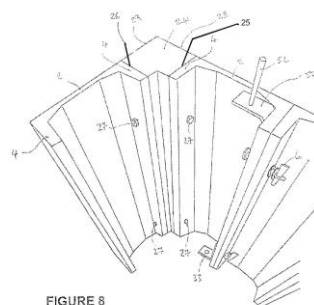
71: Ultimate Housing Solutions Pty Ltd

72: WARD, Daniel

54: MODULAR WALLING SYSTEM, COMPONENTS AND METHODS

00: -

This invention relates to a modular walling system. The system includes a plurality of primary structural members. Each primary structural member has a generally channel-shaped cross-sectional profile with an outer wall defining surface and two flanges extending away from the outer wall defining surface. The system further includes a securing means which is configured to apply a securing force to retain pairs of primary structural members in a side-by-side relationship. The securing means is configured to secure adjacent flanges of respective pairs of the primary structural members such that the adjacent flanges are held together in secure face-to-face abutment by the securing force. A primary corner member having a solid construction is connectable between a first primary structural member with its outer wall defining surface extending in a first direction, and a second primary structural member with its outer wall defining surface extending in a second direction.



21: 2022/07062. 22: 2022/06/24. 43: 2025/10/02

51: A47J

71: Société des Produits Nestlé S.A.

72: TALON, Christian, HEYDEL, Christophe Sébastien Paul

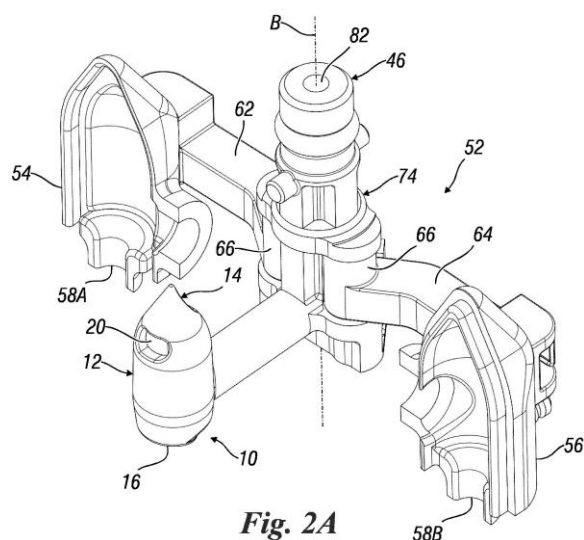
33: EP(CH) 31: 19213435.1 32: 2019-12-04

54: A CLEANING APPARATUS FOR A BEVERAGE PREPARATION MACHINE

00: -

A cleaning apparatus for a beverage preparation machine comprises at least one fluid processing device comprising a fluid processing body provided with an outflow portion for the outflow of a cleaning fluid. The fluid processing body comprises at least one of the following means: inlet means for introducing a fluid substance into a container for the preparation of a beverage product by mixing of the fluid substance with an ingredient contained in the

container; outlet means for allowing the outflow of the beverage product from the container once the fluid substance is introduced into the container and is mixed with the ingredient. The cleaning apparatus further comprises a cleaning device comprising a cleaning body, which in turn comprises one or more movable elements defining a chamber for housing at least a portion of the fluid processing body, and movement means for moving the one or more movable elements between an active position and an inactive position. The one or more movable elements and the fluid processing body are dimensioned and shaped such that, in the active position, the one or more movable elements enclose at least a portion of the fluid processing body in the chamber, such that the cleaning fluid can circulate in a space between the fluid processing body and the one or more movable elements when said cleaning fluid is ejected from the outflow portion of the fluid processing body. In the inactive position the one or more movable elements are moved away from the fluid processing body, such that the fluid processing body and the container can be functionally connected together for the preparation of the beverage product and/or the outflow of the beverage product.

**Fig. 2A**

21: 2022/07335. 22: 2022/07/01. 43: 2025/10/07
51: C10L; G01N
71: SICPA HOLDING SA

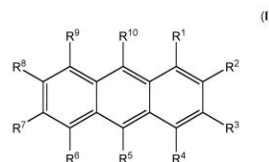
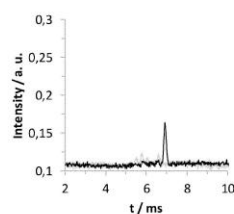
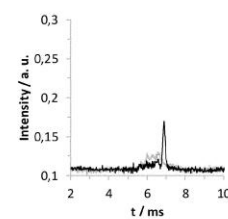
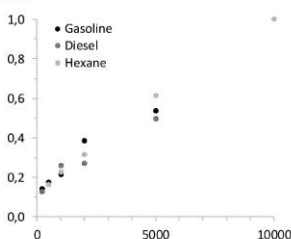
72: ZÜHLKE, Martin, RIEBE, Daniel, BEITZ, Toralf, TILLER, Thomas, LOPEZ GEJO, Juan, LASKAY, Ünige

33: EP(CH) 31: 19213176.1 32: 2019-12-03

54: METHOD OF MARKING A PETROLEUM HYDROCARBON

00: -

The present invention relates to a method of marking a petroleum hydrocarbon by adding to and uniformly mixing with said petroleum hydrocarbon a chemical marker of general formula (I) wherein two of the residues $R^1 - R^{10}$ are independently of each other selected from C_1 - C_4 -alkoxy, and eight of the residues $R^1 - R^{10}$ are independently of each other selected from the group consisting of hydrogen and C_1 - C_4 -alkyl, as well as to a composition of a petroleum hydrocarbon comprising a petroleum hydrocarbon and at least one chemical marker of general formula (I). The presence and concentration of the chemical marker of general formula (I) in the composition of the petroleum hydrocarbon can be advantageously determined by laser ionization coupled with mass spectrometry or by laser ionization coupled with ion mobility spectrometry.

**Fig. 2b****Fig. 2a****Fig. 2c**

21: 2022/07482. 22: 2022/07/06. 43: 2025/10/31
51: G06T G06F H04N

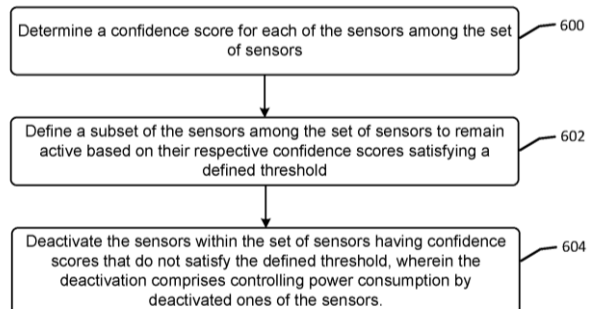
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)

72: KARAGIANNIS, Ioannis, TAHER KOUHESTANI, Amirhossein, GONZALEZ MORIN, Diego, ANDERSSON, Lars, MUDDUKRISHNA, Ananya, ARAÚJO, José

54: CONTROLLING SENSOR ACTIVATION AND DEACTIVATION FOR ENERGY EFFICIENT LOCALIZATION

00: -

A method by a device performing localization using a set of sensors that are transported with the device is disclosed. A confidence score is determined for each of the sensors among the set of sensors. A subset of the sensors is defined from among the set of sensors that are to remain active based on their respective confidence scores satisfying a defined threshold. The method deactivates the sensors within the set of sensors having confidence scores that do not satisfy the defined threshold. The deactivation includes controlling power consumption by deactivated ones of the sensors.



21: 2022/08220. 22: 2022/07/21. 43: 2025/11/20

51: A01B; B01D; F04B; G01N

71: PRECISION PLANTING LLC

72: SWANSON, Todd, KOCH, Dale, MINARICH, Nicholas, WINKLER, Nicholas

33: US 31: 63/017,789 32: 2020-04-30

33: US 31: 63/017,840 32: 2020-04-30

33: US 31: 63/018,120 32: 2020-04-30

33: US 31: 63/018,153 32: 2020-04-30

54: MULTIPLEXED PNEUMATIC CONTROL AIR SYSTEM FOR SLURRY FILTRATION

00: -

An automated computer-controlled sampling system and related methods for collecting, processing, and analyzing agricultural samples for various chemical properties such as plant available nutrients. The sampling system allows multiple samples to be

processed and analyzed for different analytes or chemical properties in a simultaneous concurrent or semi-concurrent manner. Advantageously, the system can process soil samples in the "as collected" condition without drying or grinding. The system generally includes a sample preparation sub-system which receives soil samples collected by a probe collection sub-system and produces a slurry (i.e. mixture of soil, vegetation, and/or manure and water), and a chemical analysis sub-system which processes the prepared slurry samples for quantifying multiple analytes and/or chemical properties of the sample. The sample preparation and chemical analysis sub-systems can be used to analyze soil, vegetation, and/or manure samples. A soil collection system is disclosed which captures and directs samples to the sampling system for processing.

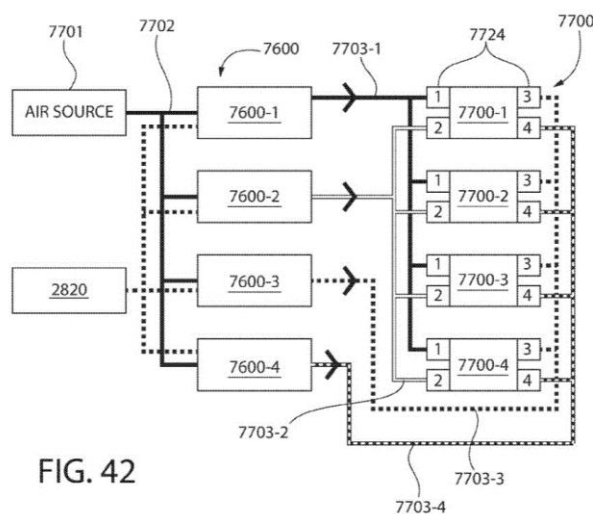


FIG. 42

21: 2022/08280. 22: 2022/07/25. 43: 2025/10/30

51: A61K; C07K; A61P

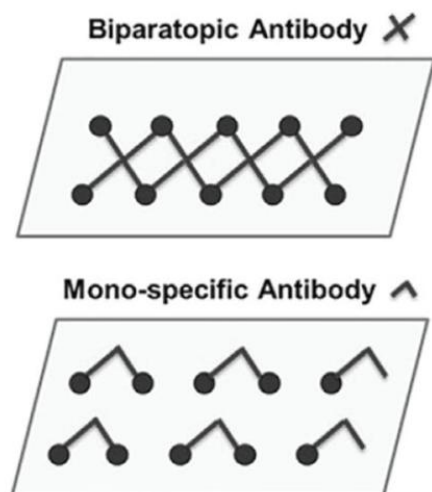
71: VISTERRA, INC.

72: VISWANATHAN, Karthik, BOOTH, Brian, RAMAKRISHNAN, Boopathy, WOLLACOTT, Andrew, BABCOCK, Gregory, SHRIVER, Zachary
33: US 31: 62/960,544 32: 2020-01-13

54: ANTIBODY MOLECULES TO C5aR1 AND USES THEREOF

00: -

Antibody molecules that specifically bind to C5aR1 are disclosed. The antibody molecules can be used to treat, prevent, and/or diagnose disorders, such as ANCA-vasculitis.



21: 2022/08527. 22: 2022/07/29. 43: 2025/10/30

51: B65D

71: ELOPAK ASA

72: ENEMARK, FRODE, LAUHOF, SEBASTIAN

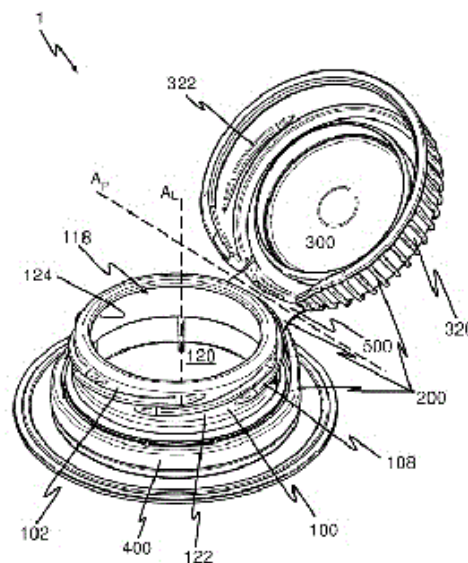
33: EP 31: 20153936.8 32: 2020-01-27

54: CLOSURE DEVICE FOR A PAPER OR PAPERBOARD-BASED PACKAGE

00: -

The invention relates to a closure device (1) comprising a pour spout (100) and a cap (200), the cap comprising a lid portion (300), a hinge portion (500) and a retainment portion (500), the hinge portion permanently linking the lid portion to the retainment portion and the retainment portion being permanently retained around the pour spout, the lid portion being re-sealably arranged on the pour spout allowing the closure device to be brought between an open position and a closed position. The pour spout comprises an annular longitudinal neck portion (102) extending along an axial direction (z) from a first axial (104) end to a second axial end (106) in a dispensing opening (118). The neck portion further comprises a plurality of external threads (108), occupying, in the axial direction (z) a region (109) located between a first plane (P₁) and a second plane (P₂), wherein the second plane (P₂) is arranged between the first plane (P₁) and the second axial end. The hinge portion is having a pivot axis (A_P) about which the lid portion is pivotally movable. The pivot axis A_P is located between the first plane (P₁) and the second axial end (106) of the neck portion. The invention also relates to an assembly

comprising a paper or paperboard-based package (50) and such a closure device (1).



21: 2022/09257. 22: 2022/08/17. 43: 2025/11/28

51: A61K; A61L; A61P

71: AHV INTERNATIONAL B.V.

72: STREEFLAND, Gerrit Jan, DE ROOIJ, Jan

33: EP 31: 20163157.9 32: 2020-03-13

54: COMPOSITIONS FOR DISRUPTING BIOFILM FORMATION AND FOR TREATING BIOFILM-RELATED DISORDERS

00: -

The disclosure relates to thiosulfur containing compositions, in particular propyl-propane thiosulfonate (PTSO) and propyl-propane-thiosulfinate (PTS). Such compositions are useful for treating infection and reducing or degrading biofilms both in vivo and in vitro. In particular, such compositions are useful in the treatment of biofilm-related disorders, including but not limited to mastitis, digital dermatitis, and chronic wound infections.

21: 2022/09429. 22: 2022/08/23. 43: 2025/11/28

51: A01N; C07D

71: BAYER AKTIENGESELLSCHAFT

72: KEIL, Birgit, LORENTZ, Lothar, OLENIK, Britta, BERNHARD, Klaus, RÖSLER, Bernd

33: EP 31: 20164735.1 32: 2020-03-20

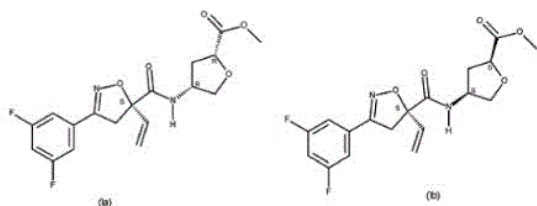
33: EP 31: 20175105.4 32: 2020-05-15

54: CRYSTAL FORMS OF METHYL(2R*,4R*)-4-[[[(5S)-3-(3,5-DIFLUOROPHENYL)-5-VINYL-4H-ISOXAZOLE-5-

CARBONYLAMINO]TETRAHYDROFURAN-2-CARBOXYLATE AND THEIR HERBICIDAL SYNERGISTIC EFFECTS

00: -

The present invention relates to the crystal forms of methyl(2R*,4R*)-4-[[[(5S)-3-(3,5-difluorophenyl)-5-vinyl-4H-isoxazole-5-carbonyl]amino]tetrahydrofuran-2-carboxylate (I) existing in the form of two stereoisomers: Methyl(2R,4R)-4-[[[(5S)-3-(3,5-difluorophenyl)-5-vinyl-4H-isoxazole-5-carbonyl]amino]tetrahydrofuran-2-carboxylate of formula (Ia) and methyl (2S,4S)-4-[[[(5S)-3-(3,5-difluorophenyl)-5-vinyl-4H-isoxazole-5-carbonyl]amino]tetrahydrofuran-2-carboxylate of formula (Ib), to a method for preparing the crystal forms, to the use for preparing stable agrochemical formulations, and to the use in the field of agriculture for controlling harmful plants.



21: 2022/09894. 22: 2022/09/05. 43: 2025/10/14
51: A61K; C07D
71: C4 THERAPEUTICS, INC.
72: NASVESCHUK, CHRISTOPHER G, ZEID, RHAMY, YIN, NING, JACKSON, KATRINA L, VEITS, GESINE KERSTIN, MOUSTAKIM, MOSES, YAP, JEREMY L

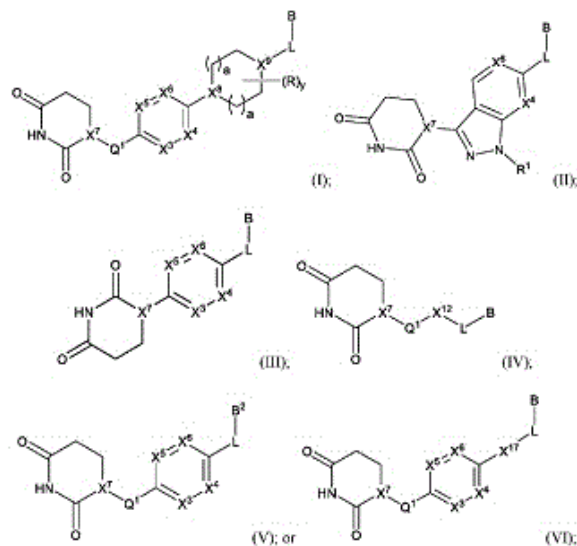
33: US 31: 63/061,659 32: 2020-08-05

33: US 31: 62/985,774 32: 2020-03-05

54: COMPOUNDS FOR TARGETED DEGRADATION OF BRD9

00: -

BRD9 protein degradation compounds or pharmaceutically acceptable salts thereof are provided for the treatment of disorders mediated by BRD9, including but not limited to abnormal cellular proliferation.



21: 2022/09896. 22: 2022/09/05. 43: 2025/10/14

51: C07D; A61K; A61P

71: MITSUBISHI TANABE PHARMA CORPORATION

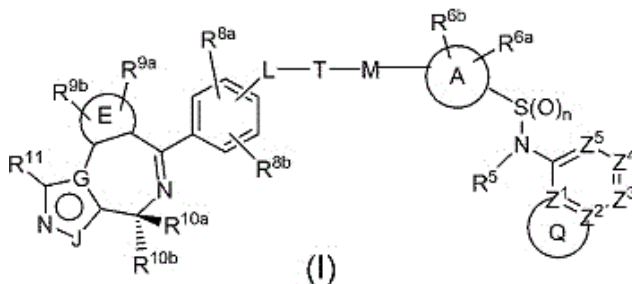
72: OHBA, KIYOMI, NIWA, YASUKI, MATSUDAIRA, TETSUJI, HAMADA, MAIKO, YAMAZAKI, RYUTA, IBUKI, TATSUYA

33: JP 31: 2020-019227 32: 2020-02-06

54: SULFONAMIDE OR SULFINAMIDE COMPOUND HAVING EFFECT OF INDUCING BRD4 PROTEIN DEGRADATION AND PHARMACEUTICAL USE THEREOF

00: -

The purpose of the present invention is to provide a compound that has an excellent effect of inducing BRD4 protein degradation and is useful as a cancer therapeutic agent, or a pharmaceutically acceptable salt thereof. A compound represented by formula (I) or a pharmaceutically acceptable salt thereof. [In the formula, each symbol is as defined in the description.]



21: 2022/09989. 22: 2022/09/07. 43: 2025/10/07

51: A61K; A61P

71: SPRINGWORKS THERAPEUTICS, INC.

72: SHEARER, TODD WEBSTER, EDRIS, BADREDDIN

33: US 31: 62/989,372 32: 2020-03-13

54: A COMBINATION THERAPY WITH NIROGACESTAT AND A BCMA-DIRECTED THERAPY AND USES THEREOF

00: -

The present disclosure provides methods of treating cancer or light chain amyloidosis in a subject in need thereof comprising administering a combination therapy comprising an effective amount of Form A of nirogacestat dihydrobromide and a B-cell maturation antigen (BCMA)-directed therapy to the subject and the uses thereof.

21: 2022/10169. 22: 2022/09/13. 43: 2025/10/16

51: A23L; B65D

71: Sea6 Energy Pvt. Ltd.

72: AYYAKKALAI, Balamurugan, VANTHARAM VENKATA, Hemanth Giri Rao, NORI, Sri Sailaja, SURYANARAYAN, Shrikumar, RAMESH, Praneeth Srivanth

33: IN 31: 202041011997 32: 2020-03-19

54: COMPOSITE, PROCESS FOR PREPARING THE COMPOSITE, AND IMPLEMENTATION THEREOF

00: -

The present disclosure discloses a composite comprising: (a) at least one seaweed or seaweed extract; and (b) at least one ammonium salt, wherein the ammonium salt is an organic ammonium salt. The composite further comprises at least one component selected from the group consisting of an oleophilic component, and an amphiphilic component. A process for preparing the composite is also disclosed herein. The composite is further molded into various articles as disclosed herein.

21: 2022/10472. 22: 2022/09/21. 43: 2025/10/14

51: B60L

71: EPIROC ROCK DRILLS AKTIEBOLAG

72: ANDERSSON, EMIL, TÖRNQVIST, JOACIM, ROTH, PATRIK, SKOGLUND, JOHANNES

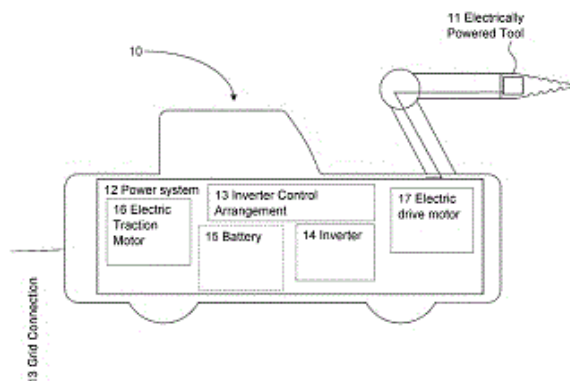
33: SE 31: 2050682-0 32: 2020-06-10

54: METHOD AND ARRANGEMENTS IN AN ELECTRIC MINING MACHINE

00: -

The disclosure relates to a method, a computer program product, an inverter control arrangement, a

power system, and a mining machine. A method performed in an inverter control arrangement comprised in a power system of an electric mining machine is provided. The method comprises obtaining an input from an inverter capable of operating in a plurality of operating modes, wherein the input comprises a first operating mode from the plurality of operating modes of the inverter and wherein the first operating mode is one of a traction operation on battery mode, a battery charging mode, an energy dump mode, a traction operation without battery mode, an on-board grid mode, and a high power drive operation on battery mode. The method further comprises selecting a second operating mode from the plurality of operating modes based on the obtained input, wherein the second operating mode is an operating mode different from the first operating mode and activating the second operating mode of the inverter, wherein activating the second operating mode comprises operating the inverter with a parameter set associated with the second operating mode.



21: 2022/10474. 22: 2022/09/21. 43: 2025/10/07

51: A61K; A61P

71: EAGLE PHARMACEUTICALS, INC.

72: HEPNER, ADRIAN

33: US 31: 63/008,486 32: 2020-04-10

33: US 31: 63/062,599 32: 2020-08-07

54: METHODS OF TREATING SARS-COV-2 INFECTIONS

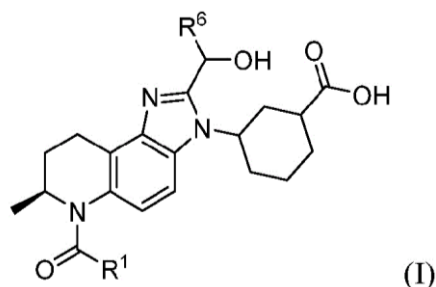
00: -

The disclosure is directed to methods of using dantrolene or a dantrolene prodrug, or a pharmaceutically acceptable salt thereof, to treat COVID-19 and SARS-CoV-2 infections.

21: 2022/10560. 22: 2019/06/28. 43: 2025/10/08
 51: C07D A61K A61P
 71: FORMA THERAPEUTICS, INC.
 72: SCHILLER, Shawn, E.R., HERBERTZ, Torsten,
 LI, Hongbin, GRAVES, Bradford, MISCHKE, Steven,
 WEST, Angela, V., ERICSSON, Anna, DOWNING,
 Jennifer, R.
 33: US 31: 62/692,593 32: 2018-06-29
 33: US 31: PCT/US2018/051214 32: 2018-09-14
 33: US 31: PCT/US2018/051235 32: 2018-09-14
 33: US 31: 62/819,490 32: 2019-03-15

54: INHIBITING CREB BINDING PROTEIN (CBP)
 00: -

The present disclosure is directed to inhibitors of the CBP/p300 family of bromodomains. The compounds can be useful in the treatment of disease or disorders associated with the inhibition of the CBP/p300 family of bromodomains. For instance, the disclosure is concerned with compounds and compositions for inhibition of the CBP/p300 family of bromodomains, methods of treating, preventing, or ameliorating diseases or disorders associated with the inhibition of CBP/p300 family of bromodomains, and methods of synthesis of these compounds.

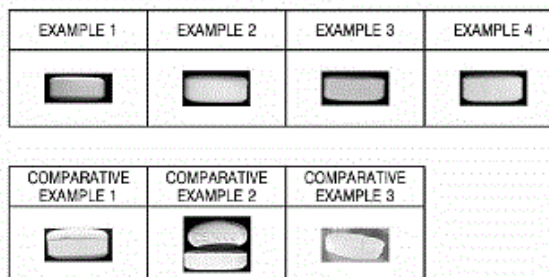


21: 2022/10630. 22: 2022/09/26. 43: 2025/10/07
 51: A61K
 71: HANMI PHARM. CO., LTD.
 72: TAK, JIN WOOK, KIM, BO SIK, KWON, TAEK
 KWAN, IM, HO TAEK, KIM, YONG IL
 33: KR 31: 10-2020-0038568 32: 2020-03-30
54: ORAL COMPLEX TABLET COMPRISING
SITAGLIPTIN, DAPAGLIFLOZIN, AND
METFORMIN

00: -

An aspect provides a complex tablet and a method for preparing same, the complex tablet comprising: a first layer comprising dry granules which comprise sitagliptin or a pharmaceutically acceptable salt thereof, or a hydrate thereof, and dapagliflozin or a pharmaceutically acceptable salt thereof, or a

hydrate thereof; and a second layer comprising wet granules which comprise metformin or a pharmaceutically acceptable salt thereof, and colloidal silicon dioxide.



21: 2022/10841. 22: 2022/09/30. 43: 2025/10/07
 51: A61K; A61P; C07K
 71: ACTIVE BIOTECH AB, THE WISTAR
 INSTITUTE OF ANATOMY AND BIOLOGY
 72: NEFEDOVA, YULIYA, TÖRNGREN, MARIE,
 ERIKSSON, HELENA, GABRILOVICH, DMITRY,
 SCHMIDLIN, FABIEN
 33: US 31: 62/984,474 32: 2020-03-03
 33: US 31: 63/148,522 32: 2021-02-11
 33: EP 31: 20160815.5 32: 2020-03-03

54: TASQUINIMOD OR A PHARMACEUTICALLY
ACCEPTABLE SALT THEREOF FOR USE IN
COMBINATION THERAPY

00: -

A combination comprising tasquinimod, or a pharmaceutically acceptable salt thereof, and at least one further compound selected from a proteasome inhibitor, an immunomodulatory imide, and an antibody, for use as a in the treatment of multiple myeloma. A kit comprising tasquinimod and a package insert with instructions for using tasquinimod in combination with at least one further compound selected from a proteasome inhibitor, an immunomodulatory imide, and an antibody, to treat multiple myeloma in an individual. Tasquinimod for use in the treatment of multiple myeloma, in combination with a further compound selected from a proteasome inhibitor, an immunomodulatory imide, and an antibody.

21: 2022/10843. 22: 2022/09/30. 43: 2025/10/07
 51: A61K; A61P; C07D
 71: SHANGHAI HENGRUI PHARMACEUTICAL
 CO., LTD., JIANGSU HENGRUI
 PHARMACEUTICALS CO., LTD.

72: YUE, ZHANLONG, YAN, ZHEN, LIU, XUN

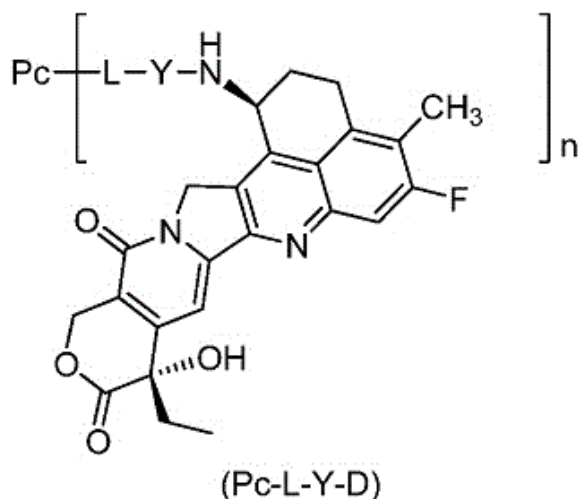
33: CN 31: 202110287012.7 32: 2021-03-17

33: CN 31: 202010219601.7 32: 2020-03-25

54: PHARMACEUTICAL COMPOSITION COMPRISING ANTIBODY DRUG CONJUGATE AND USE THEREOF

00: -

A pharmaceutical composition, comprising an antibody drug conjugate in a buffer solution. The antibody drug conjugate has a structure represented by the general formula (Pc-L-Y-D). The pharmaceutical composition further comprises sugar and a surfactant.



21: 2022/10917. 22: 2022/10/04. 43: 2025/10/23

51: A61K; A61Q

71: UNILEVER GLOBAL IP LIMITED

72: LOGANATHAN, CHANDERSEKAR, PAN, YUEYUAN

33: CN 31: PCT/CN2020/089331 32: 2020-05-09

33: EP 31: 20180672.6 32: 2020-06-18

54: PERSONAL CARE COMPOSITION WITH VISUALLY DISTINCT AQUEOUS AND OIL PHASE

00: -

Disclosed is a multi-phase personal care composition comprising an aqueous phase, and an oil phase comprising fatty ester and resorcinol derivative, wherein the weight ratio of the fatty ester to the resorcinol derivative is from 10:1 to 1000:1 and the aqueous phase is visually distinct from and in physical contact with the oil phase.

21: 2022/10918. 22: 2022/10/04. 43: 2025/10/23

51: C07K

71: REGENERON PHARMACEUTICALS, INC.

72: DAI, JIE, MOLINA-PORTELA, MARIA DEL

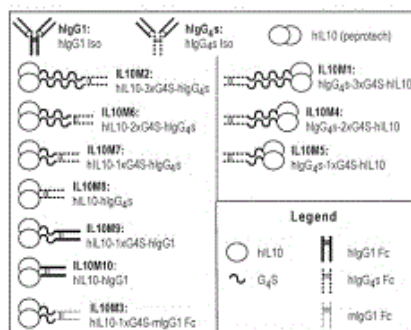
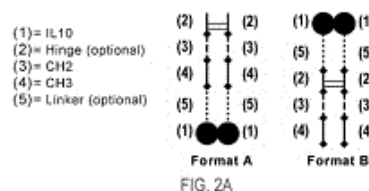
PILAR, IOFFE, ELLA, MOHRS, MARKUS

33: US 31: 63/023,703 32: 2020-05-12

54: NOVEL IL10 AGONISTS AND METHODS OF USE THEREOF

00: -

The present disclosure relates to IL10 agonists with improved anti-tumor therapeutic efficacy.



21: 2022/11120. 22: 2022/10/11. 43: 2025/10/23

51: G06F; G06Q

71: EXTRAKT PROCESS SOLUTIONS, LLC

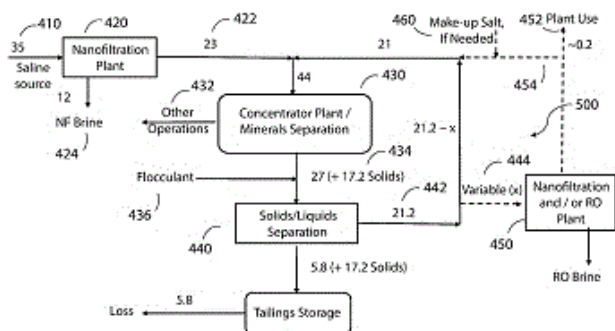
72: PAINTER, PAUL C, MILLER, BRUCE G, LUPINSKY, ARON

33: US 31: 63/007,548 32: 2020-04-09

54: WATER MANAGEMENT SYSTEM FOR ORE MINING OPERATION

00: -

Processes of extracting mineral deposits in ore include treating a saline source, e.g., seawater, to reduce a concentration of one or more multivalent ions (e.g., Ca^{2+} , Mg^{2+} , SO_4^{2-}) dissolved in the saline source by passing the seawater through one or more nanofilters to produce treated saline water while maintain a certain concentration of dissolved monovalent ions (e.g., Na^+ , K^+ and Cl^-) in the treated saline water. The treated saline water can be used in an operation to extract minerals from ore such as in a flotation operation to extract minerals from ore, or to consolidate tailings generated from an extraction of minerals from ore, or both.



21: 2022/11123. 22: 2022/10/11. 43: 2025/10/27

51: A61K; A61P

71: PHARMA MAR, S.A.

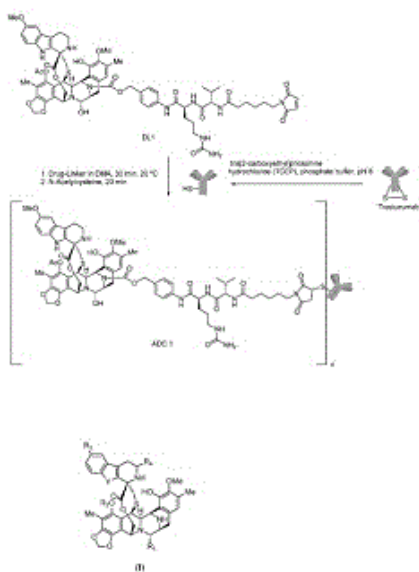
72: LATORRE LOZANO, ALFONSO, MARTÍNEZ BARRASA, VALENTÍN, FRANCESCH SOLLOSO, ANDRÉS M, CUEVAS MARCHANTE, MARÍA DEL CARMEN

33: EP 31: 20382320.8 32: 2020-04-21

54: DRUG ANTIBODY CONJUGATES

00: -

Drug conjugates having formula $[D-(X)_b-(AA)_w-(T)_g-(L)]_n-Ab$ wherein: D is a drug moiety having the following formula (I) or a pharmaceutically acceptable salt, ester, solvate, tautomer or stereoisomer thereof, (I) wherein D is covalently attached via a hydroxy or amine group to $(X)_b$ if any, or $(AA)_w$ if any, or to $(T)_g$ if any, or (L); that are useful in the treatment of cancer.



21: 2022/11311. 22: 2022/10/14. 43: 2025/10/23

51: A61K; A61P

71: SUMITOMO PHARMA AMERICA, INC.

72: BOWEN, CARRIE A, HOPKINS, SETH CABOT, SYNAN, COLLEEN M

33: US 31: 63/009,595 32: 2020-04-14

33: US 31: 63/039,722 32: 2020-06-16

54: (S)-(4,5-DIHYDRO-7H-THIENO[2,3-C]PYRAN-7-YL)-N-METHYLMETHANAMINE FOR TREATING NEUROLOGICAL AND PSYCHIATRIC DISORDERS

00: -

The present disclosure relates to methods of treating neurological or psychiatric diseases or disorders, such as schizophrenia. Compound 1, or a pharmaceutically acceptable salt thereof, is an antipsychotic agent with a non-D2 mechanism of action. Adverse events associated with antipsychotic agents that target the D2 dopamine receptor can be reduced by treating disorders with Compound 1, or a pharmaceutically acceptable salt thereof.

21: 2022/11631. 22: 2022/10/25. 43: 2025/10/31

51: B01D

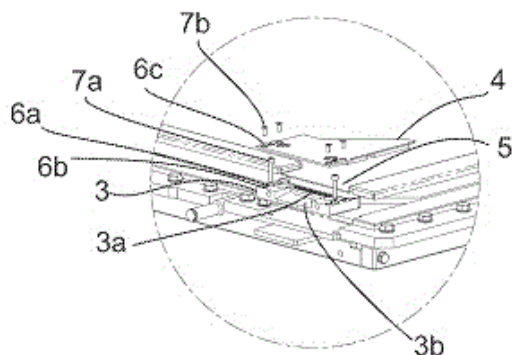
71: METSO FINLAND OY

72: MUSTAKANGAS, MIRVA, JUVONEN, ISMO, KAIPAINEN, JANNE, ELORANTA, TEEMU, ILLI, MIKA, VÄNTTINEN, KARI

54: AN OUTLET PIECE ASSEMBLY FOR A HORIZONTAL PLATE AND FRAME-TYPE FILTER, SUCH AS A TOWER PRESS

00: -

The present disclosure relates to an outlet piece assembly (1) for a horizontal plate and frame-type filter, such as tower press. The disclosure is based on the idea of providing the outlet piece assembly (1) as having a base (3) removably attachable to a filter press (e.g., to the filter plate (8) or plate frame (9) thereof), and a lid (4) removably fixed to the 5 base (3), such that an internal conduit (2) of the outlet piece assembly running between a vat end and a discharge end is formed between the base (3) and the lid (4). This enables a part of an associated filtrate vat component, such as the vat liner (5), to be received between the base (3) and the lid (4), thereby ensuring secure sealing between these components.

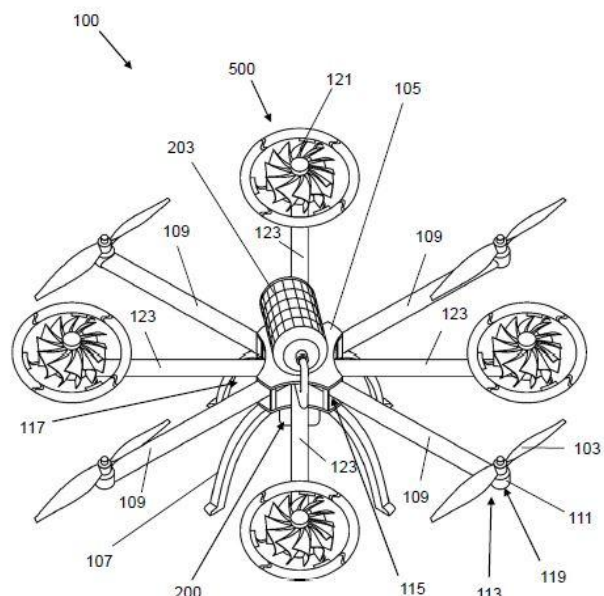


21: 2022/12206. 22: 2022/11/09. 43: 2025/11/04
 51: B64C; B64D
 71: AFRICA NEW ENERGIES LIMITED
 72: LARKIN, Stephen, OMAR, Muhammad, TAHA, Muhammad, USMAN, Muhammad, RAW, Brendon, KHAN, Saad Saleem

54: AN UNMANNED AERIAL VEHICLE AND ENERGY HARVESTING DEVICE

00: -

An unmanned aerial vehicle and an energy harvesting device is provided. The unmanned aerial vehicle has a reversible hydrogen fuel cell configured to power multiple propellers and generate hydrogen fuel from the electrolysis of water. An energy harvesting device of the unmanned aerial vehicle is configured to harvest energy from an environmental source to generate electricity for use by the reversible hydrogen fuel cell to generate the hydrogen fuel. The energy harvesting device includes at least one impeller which is configured to harvest energy from wind to generate electricity.



21: 2023/03275. 22: 2023/03/02. 43: 2025/10/09
 51: C12N; A61K

71: TUOJIE BIOTECH (SHANGHAI) CO., LTD.

72: HUANG, JINYU, LUO, MIN, YIN, KE

33: CN 31: 202110244977.8 32: 2021-03-05

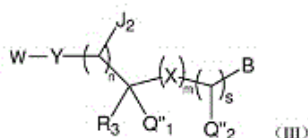
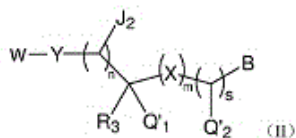
33: CN 31: 202010772542.6 32: 2020-08-04

33: CN 31: 202110361502.7 32: 2021-04-02

54: MODIFIED SIRNA WITH REDUCED OFF-TARGET ACTIVITY

00: -

Disclosed is a modified siRNA with a reduced off-target activity. The siRNA comprises a sense strand and an antisense strand, wherein the antisense strand contains a chemical modification as represented by formula (I) or a tautomeric modification thereof in at least one nucleotide position from position 2 to position 8 of 5' region thereof. A conjugate, a pharmaceutical composition, a cell or a kit containing the siRNA, and the medical use of the siRNA, the conjugate and/or the pharmaceutical composition thereof are also disclosed. Further disclosed are compounds as represented by formula (II) and formula (III) or tautomers thereof, and preparation methods therefor.



21: 2023/03338. 22: 2023/03/06. 43: 2025/10/06
51: A61K

71: Estetra SPRL

72: JASPART, Séverine Francine Isabelle,
PLATTEUW, Johannes Jan, VAN DEN HEUVEL,
Denny Johan Marijn

33: EP(BE) 31: 15172767.4 32: 2015-06-18

54: ORODISPERSIBLE DOSAGE UNIT CONTAINING AN ESTETROL COMPONENT

00: -

The invention provides an orodispersible solid pharmaceutical dosage unit having a weight between 30 and 1,000 mg, said dosage unit consisting of: 0.1-25 wt.% of estetrol particles containing at least 80 wt.% of an estetrol component selected from estetrol, estetrol esters and combinations thereof; and 75-99.9 wt.% of one or more pharmaceutically acceptable ingredients; the solid dosage unit comprising at least 100 µg of the estetrol component; and wherein the solid dosage unit can be obtained by a process comprising wet granulation of estetrol particles having a volume weighted average particle size of 2 µm to 50 µm. The solid dosage unit is easy to manufacture and perfectly suited for sublingual, buccal or sublabial administration.

21: 2023/04227. 22: 2023/04/06. 43: 2025/09/29
51: A61P; C07K

71: IGI Therapeutics SA

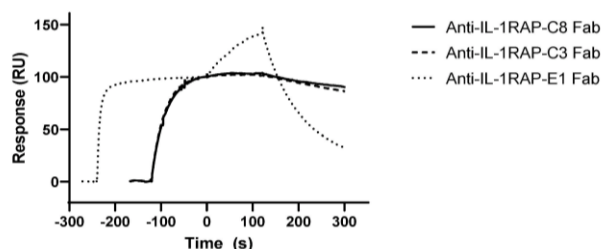
72: MACOIN, Julie, CROSET, Amelie, LOYAU,
Jeremy, MONNEY, Thierry, MBOW, Lamine,
DOUCEY, Marie-Agnes, LABANCA, Valentina

33: EP(CH) 31: 20195961.6 32: 2020-09-14

54: ANTIBODIES THAT BIND TO IL1RAP AND USES THEREOF

00: -

The present invention relates to antibodies which specifically bind to human IL1RAP and may also bind to cynomolgus monkey and/or mouse IL1RAP. The present invention also relates to the use of such antibodies to diagnose and treat human disease.



21: 2023/04902. 22: 2023/05/02. 43: 2025/09/29
51: H04W

71: NOKIA TECHNOLOGIES OY

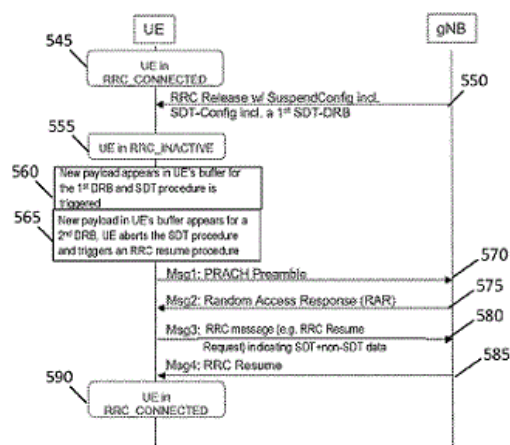
72: LASELVA, Daniela, TURPINEN, Samuli,
KOSKINEN, Jussi-Pekka, PRATAS, Nuno

33: US 31: 63/089,312 32: 2020-10-08

54: HANDLING OF DATA TRANSMISSION

00: -

Systems, methods, apparatuses, and computer program products for handling data transmission such as non-small data transmission (SDT) in conjunction with SDT. A method may include determining an availability of non-small data transmission, non-SDT, data. The method may also include indicating to a network element, a result of the determining.



21: 2023/05659. 22: 2023/05/25. 43: 2025/09/29

51: A61F

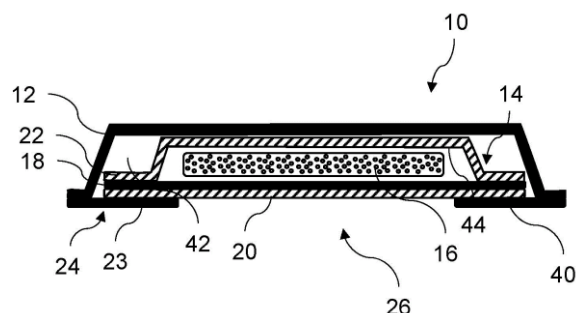
71: Essity Hygiene and Health Aktiebolag

72: SCHÜTZ, Patrick, SCHULZE, Christian

54: WOUND DRESSING

00: -

The present invention relates to a wound dressing comprising or consisting of (a) a covering layer; (b) a sheath on the wound facing side of the covering layer, (c) an absorbent core within the sheath, and (d) an adherent layer on the wound facing side of the sheath; wherein the sheath comprises (b1) an adhesive sheath layer, (b2) a proximal sheath layer on the proximal sides of the absorbent core and the adhesive sheath layer and (b3) a distal sheath layer on the distal sides of the absorbent core and the adhesive sheath layer; wherein the adherent layer comprises an opening, and wherein the adherent layer has (i) a wound facing proximal side adapted to adhere to a body part, and (ii) a distal side adhering to an outer rim of the covering layer.



21: 2023/06134. 22: 2023/06/09. 43: 2025/10/09

51: G01L; F16K

71: BRAY INTERNATIONAL, INC.

72: KITCHENS, MICHAEL, SAMARNEH, JOSEPH, MCCONNELL, DANIEL

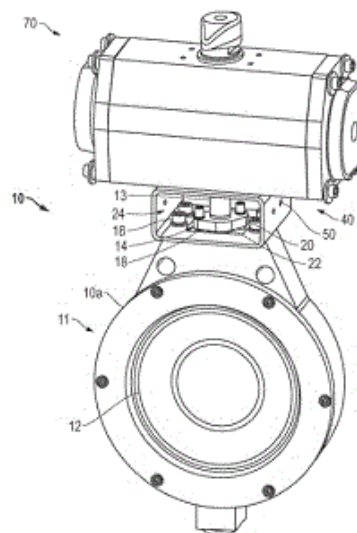
33: US 31: 17/139,284 32: 2020-12-31

33: US 31: 63/123,818 32: 2020-12-10

54: BRACKET TORQUE DEVICE

00: -

The embodiments disclosed herein relate to a bracket for a valve system, having an actuator side of the bracket, defining a first set of one or more holes; a valve side of the bracket, wherein the valve side is opposite the actuator side, and further wherein the valve side defines a second set of one or more holes; a wall connecting the actuator side and the valve side; and a strain gauge mounted to the wall.



21: 2023/06613. 22: 2023/06/27. 43: 2025/10/10

51: F03G

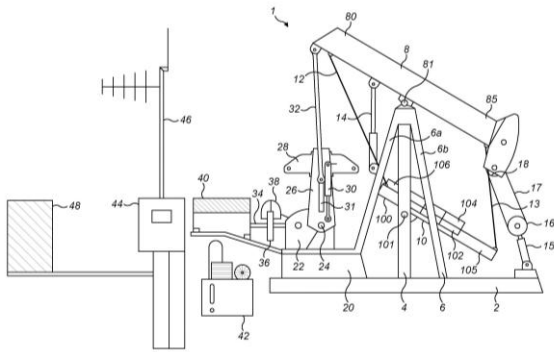
71: VGS Energy Ltd

72: SUCHANEK, Martin

54: APPARATUS FOR GENERATING ELECTRICAL POWER

00: -

An apparatus for generating electrical power, comprising: a generator for generating electrical power; a handle having a first end that is rotatably coupled to the generator, and a second end that is rotatable 360 degrees about the generator in a substantially vertical plane from a top dead centre (TDC) position, through a bottom dead centre (BDC) position, and back to the top dead centre (TDC) position; a weight that is moveable along the handle between a first position, in which the weight is proximal to the first end of the handle, and a second position, in which the weight is distal to the first end of the handle; a piston arranged to move the weight between the first and second positions; wherein the piston is operable to move the weight along the handle from the first position to the second position, so that the weight is at the second position when the handle is at TDC, and from the second position to the first position so that the weight is at the first position when the handle is at BDC, such that the weight provides a mechanical advantage as the handle rotates from TDC to BDC due to gravity acting on it, whereby rotation of the handle drives the generator thereby to generate electrical power. A corresponding method is also provided.

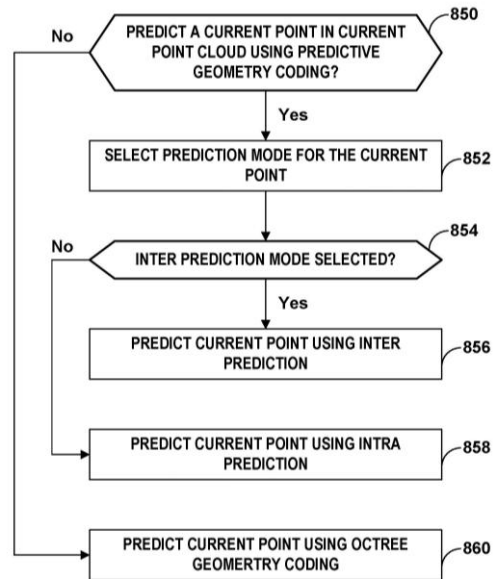


21: 2023/06667. 22: 2023/06/28. 43: 2025/10/08
 51: G06T; H04N
 71: QUALCOMM Incorporated
 72: RAMASUBRAMONIAN, Adarsh Krishnan, RAY, Bappaditya, PHAM VAN, Luong, VAN DER AUWERA, Geert, KARCZEWICZ, Marta
 33: US 31: 63/131,716 32: 2020-12-29

54: INTER PREDICTION CODING FOR GEOMETRY POINT CLOUD COMPRESSION

00: -

An example of processing a point cloud includes responsive to determining to predict a current point in the point cloud using predictive geometry coding, selecting, from a set of prediction modes, a prediction mode for the current point, wherein the set of prediction modes includes at least an intra prediction mode and an inter prediction mode; and responsive to selecting the inter prediction mode for the current point, predicting the current point of the point cloud using inter prediction.

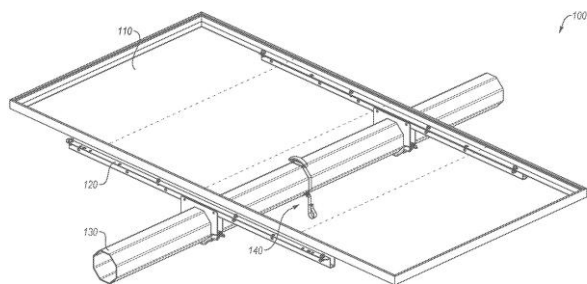


21: 2023/06696. 22: 2023/06/29. 43: 2025/09/29
 51: F24S; H02S
 71: Array Tech, Inc.
 72: DE FRESART, Benjamin C., SCHUKNECHT, Nathan, SHARP, Jon
 33: US 31: 63/130,177 32: 2020-12-23

54: PHOTOVOLTAIC MODULE DEFLECTION LIMITER

00: -

A deflection pad may include a body including two peaks, and a recess in the body between the two peaks, the recess may be sized to accommodate a fastener such that when deployed, the fastener is below a height of the two peaks within the recess. The deflection pad may include arms projecting in a direction generally opposite the two peaks, the arms biased inward towards the recess. The deflection pad may be included in a system that includes a torsion beam and one or more support racks to which multiple PV modules may be attached, where the support are racks attached to the torsion beam. One or more deflection pads may be positioned on the support racks to be below the PV modules.



21: 2023/07033. 22: 2023/07/12. 43: 2025/10/24
51: A01N; A01P

71: Kumiai Chemical Industry Co., Ltd.

72: ITAYA, Daigo

33: JP 31: 2021-006181 32: 2021-01-19

54: METHOD FOR CONTROLLING WEEDS

00: -

Provided is a method for more effectively controlling weeds in the case in which soil is treated by using pyroxasulfone. The present invention provides a method for controlling weeds, the method employing pyroxasulfone in an acicular crystal form to treat soil having a composition in which the clay content is at least 15% or the sand content is less than 65%.

21: 2023/07034. 22: 2023/07/12. 43: 2025/10/24
51: A01N; A01P

71: Kumiai Chemical Industry Co., Ltd.

72: ITAYA, Daigo

33: JP 31: 2021-006180 32: 2021-01-19

54: METHOD FOR CONTROLLING WEEDS

00: -

Provided is a method for controlling weeds more effectively when applying pyroxasulfone in a soil treatment. The present invention is, inter alia, a method for controlling weeds by applying columnar-crystal pyroxasulfone to soil having a composition comprising less than 15% clay and 65% or more sand.

21: 2023/07108. 22: 2023/07/14. 43: 2025/10/24
51: A23F; A23N

71: Société des Produits Nestlé S.A.

72: MOREND, Joël, DUBIEF, Flavien Florent,

DEGREEF, Thomas Rudi S., CELIS, Michiel

Alexander, LEMMENS, Rien Denise M.,

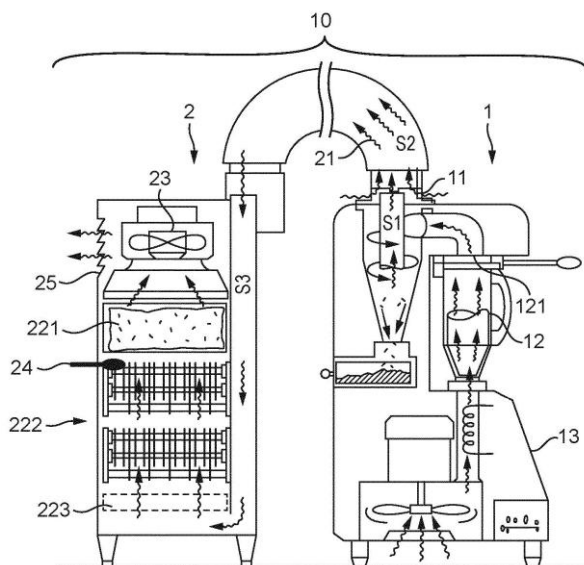
BAEKELANDT, Maxime

33: EP(CH) 31: 20216278.0 32: 2020-12-22

54: METHOD TO CHECK A COFFEE BEANS ROASTING SYSTEM

00: -

The invention concerns a method to check a roasting system (10), said system comprising : - a roasting apparatus (2), said apparatus producing smoke, and - a smoke treating unit (3) configured to treat the flow of smoke produced by the roasting apparatus and comprising :. at least one smoke filtering device (221, 222, 223), a dismountable smoke collecting device (21). at least one temperature sensor (24) configured to measure the temperature T of the flow of smoke inside the smoke treating unit (3),. a smoke driver (23) configured to drive smoke from the roasting apparatus (2) through said smoke treating unit, wherein the method comprises the steps of : - operating the roasting apparatus in order to produce hot gas, - monitoring the temperature of the smoke, and - observing at least one behaviour of the monitored temperature along time, - comparing said at least one observed behaviour of the monitored temperature with a predetermined behaviour of temperature corresponding to the presence of the dismountable smoke collecting device (21) inside the smoke treating unit, - if the at least one observed behaviour diverges from the corresponding predetermined behaviour, then displaying an alarm.



21: 2023/07113. 22: 2023/07/14. 43: 2025/10/24
51: H01L

71: Termo-ind SA

72: MAGAGNIN, Luca, TIRELLA, Vincenzo

**54: ELECTRIC POWER GENERATOR
CONTAINING AN ACTIVE ORGANIC MATERIAL**

00: -

The present invention relates to an electric power generator and a power generator module containing an active organic material.

21: 2023/07381. 22: 2023/07/25. 43: 2025/11/20

51: A01C; F04B; G01N

71: PRECISION PLANTING LLC

72: SWANSON, Todd, LEVY, Kent, SCHAEFER, Timothy A, LITWILLER, Riley, HARMAN, Reid, SEELYE, Josh, KOCH, Dale, GANOZA, Joaquin, VACCARI, Adam

33: US 31: 17/326,050 32: 2021-05-20

33: US 31: 63/191,186 32: 2021-05-20

33: US 31: 63/191,189 32: 2021-05-20

33: US 31: 63/191,195 32: 2021-05-20

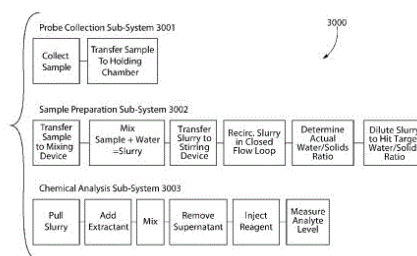
33: US 31: 63/191,199 32: 2021-05-20

33: US 31: 63/191,204 32: 2021-05-20

**54: AGRICULTURAL SAMPLING SYSTEM AND
RELATED METHODS**

00: -

An automated computer-controlled sampling system and related methods for collecting, processing, and analyzing agricultural samples for various chemical properties such as plant available nutrients. The sampling system allows multiple samples to be processed and analyzed for different analytes or chemical properties in a simultaneous concurrent or semi-concurrent manner. Advantageously, the system can process soil samples in the "as collected" condition without drying or grinding. The system generally includes a sample preparation sub-system which receives soil samples collected by a probe collection sub-system and produces a slurry (e.g., mixture of soil, vegetation, and/or manure and water), and a chemical analysis sub-system which processes the prepared slurry samples for quantifying multiple analytes and/or chemical properties of the sample. The preparation sub-system may comprise a slurry recirculation flow loop configured with devices to stir, measure, and adjust a water to solids ratio of the slurry.



21: 2023/07382. 22: 2023/07/25. 43: 2025/11/20

51: F04B

71: PRECISION PLANTING LLC

72: SWANSON, Todd, LEVY, Kent, HARMAN, Reid, GANOZA, Joaquin

33: US 31: 17/326,050 32: 2021-05-20

33: US 31: 63/191,186 32: 2021-05-20

33: US 31: 63/191,189 32: 2021-05-20

33: US 31: 63/191,195 32: 2021-05-20

33: US 31: 63/191,199 32: 2021-05-20

33: US 31: 63/191,204 32: 2021-05-20

54: DOUBLE DIAPHRAGM SLURRY PUMP

00: -

A double diaphragm slurry pump (7080) comprises: a pump body (8200) defining a vertical longitudinal axis (LA) and first (8201) and second (8202) pumping chambers; an inlet flow manifold (8203) and an outlet flow manifold (8204) coupled to the pump body; a first pump head (8230a) coupled to the body adjacent the first pumping chamber, the first pump head comprising a longitudinal flow bore (8231) separate from the first pumping chamber and fluidly coupled to the inlet and outlet flow manifolds, an upper air vent bore (8232), and a lower slurry exchange bore (8233), the upper air vent bore and lower slurry exchange bore each fluidly coupling the longitudinal flow bore in turn to the first pumping chamber; and an operating shaft (8240) coupled to a resiliently deformable diaphragm (8241) disposed in the first pumping chamber; wherein the shaft is moveable in a pump stroke to pump a fluid through the longitudinal bore of the first pump head and the first pumping chamber from the inlet flow manifold to the outlet flow manifold; and wherein the upper air vent bore (8232) is smaller in diameter than the lower slurry exchange bore (8233) such that air is preferentially ejected from the first pumping chamber rather than slurry during the pump stroke.

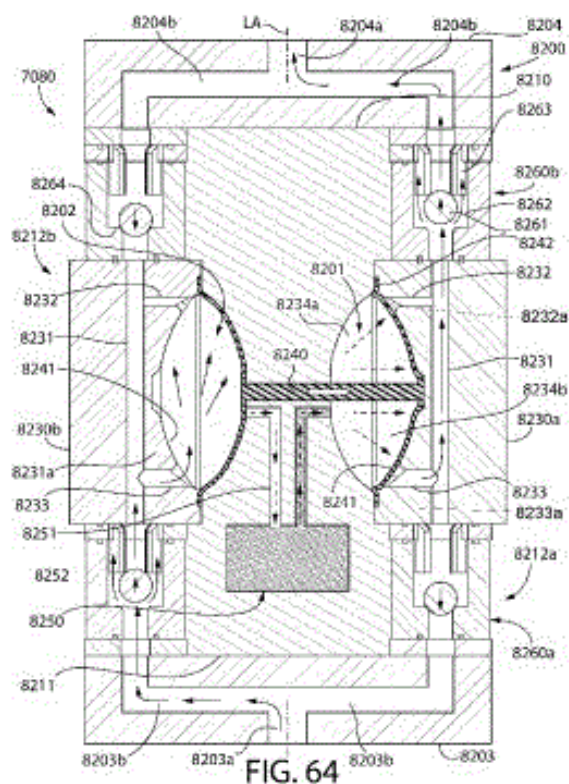
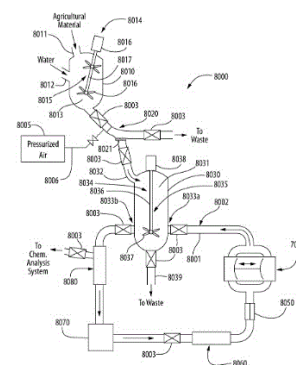


FIG. 64

probe collection sub-system and produces a slurry (e.g., mixture of soil, vegetation, and/or manure and water), and a chemical analysis sub-system which processes the prepared slurry samples for quantifying multiple analytes and/or chemical properties of the sample. The preparation sub-system may comprise a slurry recirculation flow loop configured with devices to stir, measure, and adjust a water to solids ratio of the slurry.



21: 2023/07385. 22: 2023/07/25. 43: 2025/11/20
51: F04B; F04B; G01N

71: PRECISION PLANTING LLC

72: LEVY, Kent, HARMAN, Reid, KOCH, Dale

33: US 31: 17/326,050 32: 2021-05-20

33: US 31: 63/191,186 32: 2021-05-20

33: US 31: 63/191,189 32: 2021-05-20

33: US 31: 63/191,195 32: 2021-05-20

33: US 31: 63/191,199 32: 2021-05-20

33: US 31: 63/191,204 32: 2021-05-20

54: AGRICULTURAL SAMPLING SYSTEM AND RELATED METHODS

00: -

An automated computer-controlled sampling system and related methods for collecting, processing, and analyzing agricultural samples for various chemical properties such as plant available nutrients. The sampling system allows multiple samples to be processed and analyzed for different analytes or chemical properties in a simultaneous concurrent or semi-concurrent manner. Advantageously, the system can process soil samples in the "as collected" condition without drying or grinding. The system generally includes a sample preparation sub-system which receives soil samples collected by a probe collection sub-system and produces a slurry (e.g., mixture of soil, vegetation, and/or manure and water), and a chemical analysis sub-system which processes the prepared slurry samples for

21: 2023/07383. 22: 2023/07/25. 43: 2025/11/20
51: F04B; F15B; G01N

71: PRECISION PLANTING LLC

72: LEVY, Kent, HARMAN, Reid, KOCH, Dale

33: US 31: 17/326,050 32: 2021-05-20

33: US 31: 63/191,186 32: 2021-05-20

33: US 31: 63/191,189 32: 2021-05-20

33: US 31: 63/191,195 32: 2021-05-20

33: US 31: 63/191,199 32: 2021-05-20

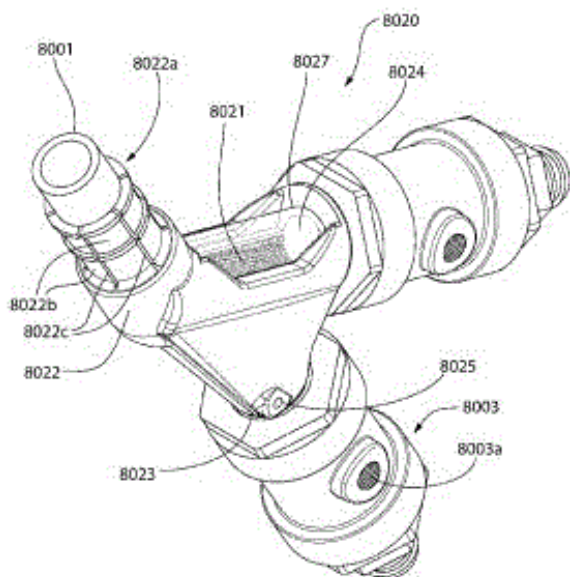
33: US 31: 63/191,204 32: 2021-05-20

54: AGRICULTURAL SAMPLING SYSTEM AND RELATED METHODS

00: -

An automated computer-controlled sampling system and related methods for collecting, processing, and analyzing agricultural samples for various chemical properties such as plant available nutrients. The sampling system allows multiple samples to be processed and analyzed for different analytes or chemical properties in a simultaneous concurrent or semi-concurrent manner. Advantageously, the system can process soil samples in the "as collected" condition without drying or grinding. The system generally includes a sample preparation sub-system which receives soil samples collected by a

quantifying multiple analytes and/or chemical properties of the sample. The preparation sub-system may comprise a slurry recirculation flow loop configured with devices to stir, measure, and adjust a water to solids ratio of the slurry.



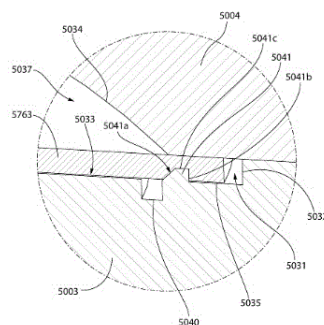
21: 2023/07387. 22: 2023/07/25. 43: 2025/11/20
 51: B01L; F16K; G01N
 71: PRECISION PLANTING LLC
 72: SWANSON, Todd, SCHAEFER, Timothy,
 LITWILLER, Riley
 33: US 31: 17/343,434 32: 2021-06-09
 33: US 31: 17/343,536 32: 2021-06-09
 33: US 31: 63/208,865 32: 2021-06-09

54: MICROPUMP

00: -

An automated computer-controlled sampling system and related methods for collecting, processing, and analyzing agricultural samples for various chemical properties such as plant available nutrients. The sampling system allows multiple samples to be processed and analyzed for different analytes or chemical properties in a simultaneous concurrent or semi-concurrent manner. Advantageously, the system can process soil samples in the "as collected" condition without drying or grinding to produce a sample slurry. The system includes a chemical analysis sub-system which processes and analyzes the prepared slurry for quantifying multiple analytes and/or chemical properties of the sample. The chemical analysis sub-system may be embodied

in a multi-layered microfluidic manifold processing substrate comprising microfluidic devices which extract and quantify the concentration of analytes or other chemical parameters associated with the sample. The system can be used to analyze various type of agricultural-related samples including soil, vegetation, manure, milk or other.



21: 2023/07565. 22: 2023/07/31. 43: 2025/10/30
 51: C25B; C02F; F04B; B63B
 71: LONE GULL HOLDINGS, LTD.
 72: SHELDON-COULSON, GARTH ALEXANDER,
 MOFFAT, BRIAN LEE, PLACE, DANIEL WILLIAM,
 THORSON, IVAR LEE
 33: US 31: 62/978,299 32: 2020-02-19
 33: US 31: 63/026,670 32: 2020-05-18
 33: US 31: 63/060,145 32: 2020-08-03

54: INERTIAL HYDRODYNAMIC PUMP AND WAVE ENGINE

00: -

A method for manufacturing hydrogen is disclosed. The method may include placing a water-borne structure into a body of water. The water-borne structure may comprise a buoy including a water collection reservoir in fluid communication with an effluent conduit, a liquid pressurizing columnar conduit depending from the buoy configured to inject water into the water collection reservoir, an electrical energy generator operatively coupled to the effluent conduit to generate electrical energy from a flow of water through the effluent conduit, and an electrolyzer electrically coupled to the electrical energy generator. The method may further include vertically displacing water from the body of water to the water collection reservoir via the liquid pressurizing columnar conduit, evacuating water from the water collection reservoir through the effluent conduit to energize the electrical energy generator, electrolyzing water by electricity

generated by the electrical energy generator to evolve hydrogen, and storing the hydrogen in a tank. A wave engine and a self-propelled oceanic energy storage apparatus adapted to float at a surface of a body of water and oscillate vertically in response to ocean waves are also disclosed.

21: 2023/07741. 22: 2023/08/07. 43: 2025/10/20
51: H01M

71: VENTURE LENDING & LEASING VIII, INC.,
AKA WTI

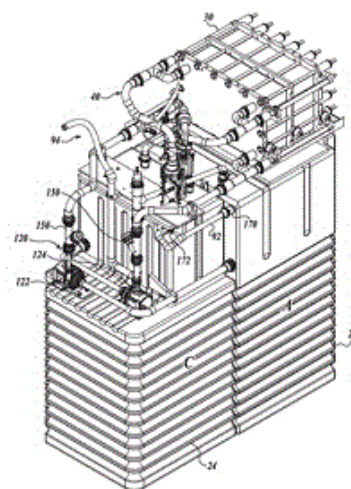
72: WINTER, RICHARD O, OSEEN-SENDA,
KATHRYN M, AHER, BRIAN, HORNER,
JONATHAN, XIA, GUANGUANG, WU, JINFENG,
JOHNSON, ERIK K. L, CRUZ, JASON I

33: US 31: 62/607,842 32: 2017-12-19

54: FLOW BATTERY SYSTEM

00: -

In accordance with embodiments of the present disclosure, a redox flow battery (RFB) includes a shell having a shell height; an electrolyte storage tank assembly disposed in the shell; an electrochemical cell; and an electrolyte circulation system. At least a portion of the electrolyte storage tank assembly is supported by the shell and the electrolyte storage tank assembly has an electrolyte liquid height, wherein the electrolyte liquid height is at or below the shell height. The electrolyte circulation system is configured for fluid communication between the electrolyte storage tank assembly and the electrochemical cell. The electrolyte circulation system includes a pump assembly. The pump assembly is moveable between a first position in the shell and below the electrolyte liquid height during operation of the pump assembly and a second position and above the electrolyte liquid height when the pump assembly is not operating.



21: 2023/07778. 22: 2023/08/08. 43: 2025/09/23
51: B66D

71: COLUMBUS MCKINNON INDUSTRIAL
PRODUCTS GMBH

72: STRUCK, Detlef

33: DE 31: 10 2021 101 058.6 32: 2021-01-19

54: LIFTING GEAR

00: -

The invention relates to a lifting gear (1) having a load chain wheel (6) and a drive shaft (4) which drives the load chain wheel (6) via a gearing mechanism (5). The lifting gear (1) is driven by a motor, in particular an electric motor (10), and the motor shaft (11) and the drive shaft (4) are coupled via a brake coupling system (12), said brake coupling system (12) comprising a coupling part (13) which can be coupled to the motor shaft (11) and a brake hub (15) which is rotatably arranged on a brake thread (14) of the drive shaft (4), wherein the coupling part (13) has a driver (20), and the brake hub (15) has a pin (21) which protrudes axially in the direction of the coupling part (13). A vane disc (22) is arranged between the coupling part (13) and the brake hub (15), said vane disc having a vane body (23), and the vane disc (22) is rotationally fixed to a coupling section (24) of the drive shaft (4). A pressure disc (28) is rotationally fixed to the drive shaft (4) on the gearing mechanism-side of the brake hub (15). Two friction discs (33, 34) are arranged between the brake hub (15) and the pressure disc (28), and a brake disc (35) which is incorporated between the friction discs (33, 34) is also arranged between the brake hub and the

pressure disc. The brake disc (35) is mounted in the housing (3) in a rotationally fixed manner.

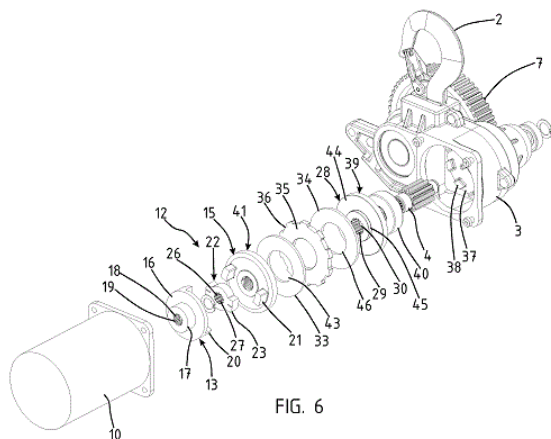


FIG. 6

21: 2023/07779. 22: 2023/08/08. 43: 2025/09/23
51: A61K A61P
71: ENYO PHARMA, INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE)
72: TERZI, Fabiola, DARTEIL, Raphaël, SCALFARO, Pietro, VONDERSCHER, Jacky, GIRMA, Hugo
33: EP 31: 21305036.2 32: 2021-01-14
33: EP 31: 21306466.0 32: 2021-10-20
54: METHOD FOR TREATING CHRONIC KIDNEY DISEASES

00: -
The present invention relates to a method for treating chronic kidney diseases.

21: 2023/07855. 22: 2023/08/11. 43: 2025/10/17
51: A61K; A61N; A61P
71: ACTIVE BIOTECH AB
72: WOBUS, MANJA, SOCKEL, KATJA, BORNHÄUSER, MARTIN
33: EP 31: 21201509.3 32: 2021-10-07
33: EP 31: 21205665.9 32: 2021-10-29
33: EP 31: 21152018.4 32: 2021-01-18
54: TASQUINIMOD OR A PHARMACEUTICALLY ACCEPTABLE SALT THEREOF FOR USE IN THE TREATMENT OF MYELODYSPLASTIC SYNDROME

00: -
Tasquinimod, or a pharmaceutically acceptable salt thereof, for use in the treatment of myelodysplastic syndrome (MDS).

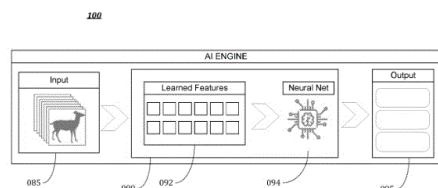
21: 2023/07948. 22: 2023/08/16. 43: 2025/09/29

51: C07D
71: BASF SE
72: KORADIN, Christopher, MCLAUGHLIN, Martin, John, GOETZ, Roland, KADUSKAR, Rahul, SHINDE, Harish, GARIVET, Guillaume, Michel, Jacques
33: EP 31: 21153040.7 32: 2021-01-22
54: METHOD FOR PREPARING 2-[2-(2-CHLOROTHIAZOL-5-YL)-2-OXO-ETHYL]SULFANYL-6-HYDROXY-3-METHYL-5-PHENYL-PYRIMIDIN-4-ONE
00: -

The present invention relates to a method for preparing 2-[2-(2-chlorothiazol-5-yl)-2-oxo-ethyl]sulfanyl-6-hydroxy-3-methyl-5-phenyl-pyrimidin-4-one or a tautomer thereof, to 2-[2-(2-chlorothiazol-5-yl)-2-oxo-ethyl]sulfanyl-6-hydroxy-3-methyl-5-phenyl-pyrimidin-4-one or a tautomer thereof and to its use as intermediate in the preparation of 2,3-dihydrothiazolo[3,2-a]pyrimidin-4-one compounds, and specifically of 3-(2-chlorothiazol-5-yl)-8-methyl-7-oxo-6-phenyl-2,3-dihydrothiazolo[3,2-a]pyrimidin-4-one-5-olate and enantiomerically enriched forms thereof.

21: 2023/08518. 22: 2023/09/05. 43: 2025/11/20
51: A63B; G08B; H04N
71: AI CONCEPTS, LLC
72: SAMPLES, Johnathan
33: US 31: 16/297,502 32: 2019-03-08
54: INTELLIGENT RECOGNITION AND ALERT METHODS AND SYSTEMS

00: -
An intelligent target object detection and alerting platform may be provided. The platform may receive a content stream from a content source. A target object may be designated for detection within the content stream. A target object profile associated with the designated target object may be retrieved from a database of learned target object profiles. The learned target object profiles may be associated with target objects that have been trained for detection. At least one frame associated with the content stream may be analyzed to detect the designated target object. The analysis may comprise employing a neural net, for example, to detect each target object within each frame. A parameter for communicating target object detection data may be specified. In turn, when the parameter is met, the detection data may be communicated.



21: 2023/08763. 22: 2023/09/14. 43: 2025/10/10

51: G21C

71: AKME-ENGINEERING JOINT-STOCK COMPANY

72: DEDYL, Aleksandr Vladislavovich, TOSHINSKII, Georgii Il'ich, ARSEN'EV, Urii Aleksandrovich, SAMKOTRYASOV, Sergei Vladimirovich, VAHRUSHIN, Mihail Petrovich

33: RU 31: 2021106629 32: 2021-03-15

54: NUCLEAR REACTOR WITH A LIQUID METAL COOLANT

00: -

The invention relates to nuclear power engineering and is intended for using in power plants with a reactor with a heavy liquid metal coolant (HLMC) based on lead or on lead-bismuth alloys. The invention makes it possible to increase the radiation protection efficiency for the in-vessel equipment of a nuclear reactor, to increase the heat storage capacity of the primary circuit, to reduce the nuclear reactor weight, and to improve its strength characteristics. In the in-vessel space of a nuclear reactor, which is not occupied by the necessary equipment, containers filled with a material that reflects or absorbs neutrons, with a heat capacity greater than that of the coolant, are installed with gaps ensuring the coolant flow, while the containers are placed in such a way that the resulting gaps form channels with a turbulent coolant flow to cool these containers at a flow rate corresponding to the nominal power output level of the nuclear reactor.

21: 2023/08890. 22: 2023/09/20. 43: 2025/11/20

51: A01B; A01C

71: PRECISION PLANTING LLC

72: SWANSON, Todd, KOCH, Dale, SLONEKER, Dillon

33: US 31: 62/297,535 32: 2016-02-19

33: US 31: 62/322,314 32: 2016-04-14

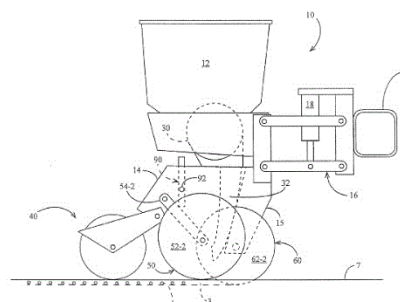
33: US 31: 62/366,405 32: 2016-07-25

33: US 31: 62/417,144 32: 2016-11-03

54: AGRICULTURAL TRENCH DEPTH SYSTEMS, METHODS, AND APPARATUS

00: -

Systems, methods and apparatus for adjusting the depth of a trench opened by a row unit of an agricultural planter. The row unit includes a trench depth adjustment assembly configured to modify the furrow depth. In one embodiment, the depth adjustment assembly may include a gear box having one or more gears which engage with a gear rack. The gear box may be pivotally connected to a depth adjustment body supporting a rocker that adjusts upward travel of gauge wheel arms. In another embodiment, the depth adjustment assembly may include a depth adjustment arm having a screw receiver that cooperates with a driven screw that adjusts the position of the depth adjustment arm acting on the gauge wheels to adjust trench depth.



21: 2023/08936. 22: 2023/09/21. 43: 2025/10/09

51: C12Q

71: MARKER DIAGNOSTICS UK LIMITED

72: BELL, ANTONIO, DI PIETRO, VALENTINA

33: US 31: 62/805,761 32: 2019-02-14

33: US 31: 62/884,104 32: 2019-08-07

54: SALIVARY BIOMARKERS OF BRAIN INJURY

00: -

Methods of diagnosing, monitoring, treating, and predicting the course of traumatic brain injury (TBI), including mild traumatic brain injury (mTBI), include determining a level of at least one RNA biomarker (e.g., miRNA) in a saliva sample from a subject. Also described are sensor elements, detection systems, compositions, and kits for diagnosing, monitoring, treating, and predicting the course of TBI.

21: 2023/08937. 22: 2023/09/21. 43: 2025/10/14

51: B01D; B01J; C22B

71: JOHNSON MATTHEY PUBLIC LIMITED COMPANY

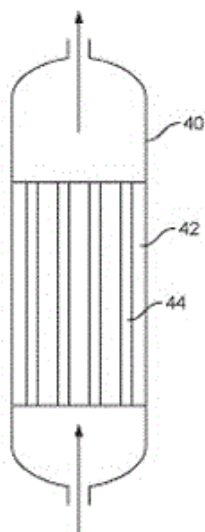
72: EDGAR, JONATHAN, MARIN FLORIDO, DANIEL, FOXWELL, DAVID, O'SHAUGHNESSY, PAUL NOEL, TSOLIGKAS, ANDREAS

33: GB 31: 2010885.8 32: 2020-07-15

54: METHODS FOR THE SEPARATION AND/OR PURIFICATION OF METALS

00: -

A method for separating at least two metals from each other in a metal refining process, the method comprising: injecting a feed solution comprising the metals into a column or flow pipe comprising a monolithic solid body having a plurality of channels; and flowing the feed solution through the plurality of channels in the monolithic solid body to separate the metals.



21: 2023/08956. 22: 2023/09/21. 43: 2025/11/20

51: B01L; G01N

71: PRECISION PLANTING LLC

72: SWANSON, Todd, VACCARI, Adam, SCHAEFER, Timothy, LITWILLER, Riley

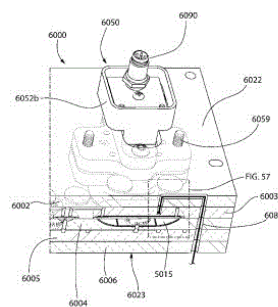
33: US 31: 63/213,319 32: 2021-06-22

54: MICROFLUIDIC MANIFOLD AND METHOD FOR DETERMINATION OF ANALYTE CONCENTRATION FROM TEMPERATURE-COMPENSATED ABSORBANCE MEASUREMENTS

00: -

An automated computer-controlled sampling system and related methods for collecting, processing, and analyzing agricultural samples for various chemical properties such as plant available nutrients. The sampling system allows multiple samples to be processed and analyzed for different analytes or chemical properties in a simultaneous concurrent or semi-concurrent manner. Advantageously, the system can process soil samples in the "as

collected" condition without drying or grinding first to produce a sample slurry. The system includes a multi-layered microfluidic manifold chemical analysis substrate configured to provide a temperature-compensated concentration of analytes or other chemical properties associated with the sample. The system utilizes a programmable controller, temperature sensor, and absorbance measurement device for that purpose. The system can be used to analyze various type of agricultural-related samples including soil, vegetation, manure, milk or other.



21: 2023/09014. 22: 2023/09/22. 43: 2025/10/15

51: B65G

71: METSO FINLAND OY

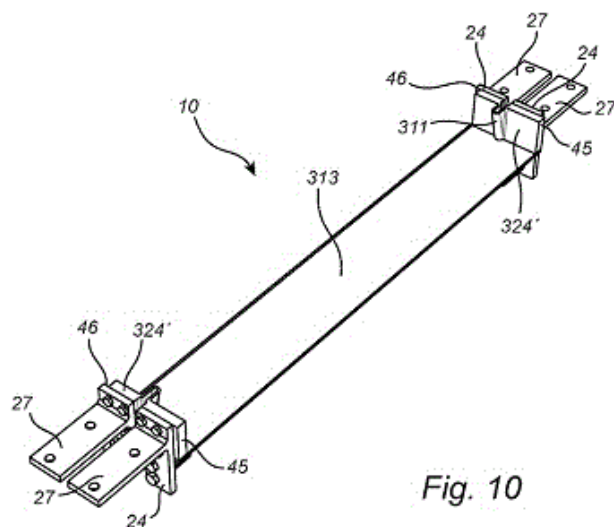
72: GRÖNVALL, LARS

33: EP 31: 21169906.1 32: 2021-04-22

54: CONVEYOR SYSTEM UNIT AND ENDLESS CONVEYOR SYSTEM

00: -

A conveyor system unit (10) configured to form part of an endless conveyor system (50) is disclosed. A conveyor system unit (10) comprises a first slat (11) and a second slat (12), and each slat (11, 12) has a supporting surface (13) with a first and a second long side edge portion (21, 22) and two short side edge portions (23). The first and second slats (11, 12) are arranged side by side in view of each other and are interconnected by an elastomeric matrix (30) extending across the supporting surfaces (13). Each conveyor system unit (10) further comprises supporting side walls (24) arranged at each short side edge portion (23) of each slat (11, 12), and the supporting side walls (24) arranged on a same short edge side of the conveyor system unit (10) are interconnected by an elastomeric matrix wall (324, 324') extending across the supporting side walls (24). An endless conveyor system (50) comprising such conveyor system units is also disclosed.

**Fig. 10**

21: 2023/09169. 22: 2023/09/29. 43: 2025/10/06
51: A61B

71: ZETEO TECH, INC.

72: CHEN, Dapeng, BRYDEN, Wayne, A.,
MCLOUGHLIN, Michael

33: US 31: 63/169,130 32: 2021-03-31

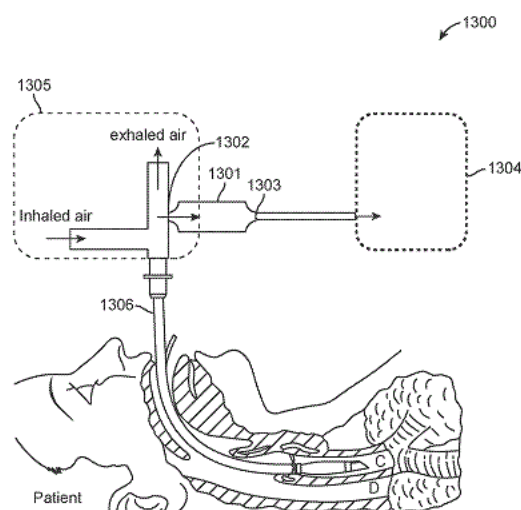
33: US 31: 63/249,357 32: 2021-09-28

33: US 31: 63/325,435 32: 2022-03-30

**54: DIAGNOSIS OF RESPIRATORY DISEASES
BY CAPTURING AEROSOLIZED BIOMATERIAL
PARTICLES USING PACKED BED SYSTEMS
AND METHODS**

00: -

Methods and devices for capturing and analyzing aerosolized particles in exhaled breath characteristic of a respiratory disease to enable rapid, low-cost point of care assays for several diseases including respiratory tract diseases such as COVID-19 are disclosed. The disclosed methods and systems selectively capture aerosolized particles using a packed bed column. The captured particles are then eluted using solvents and analyzed using analytical devices including MALDI-TOFMS.



21: 2023/09298. 22: 2023/10/04. 43: 2025/10/21
51: C12Q

71: ILLUMINA CAMBRIDGE LIMITED

72: GEORGE, WAYNE N, BROWN, ANDREW A

33: US 31: 63/182,370 32: 2021-04-30

54: FLOW CELL AND METHODS

00: -

An example of a flow cell includes a substrate and a pattern of two different silanes on at least a portion of a surface of the substrate. A first polymer is attached to a first of the two different silanes and a second polymer is attached to a second of the two different silanes. The first and second polymers respectively include a first functional group and a second functional group of a functional group pair, the functional group pair being selected from the group consisting of an activated ester functional group and an azide functional group, a tetrazine functional group and an activated ester functional group, and a tetrazine functional group and an azide functional group. A first primer set is grafted to the first polymer and a second primer set is grafted to the second polymer. The first and second primer sets are different.

21: 2023/09313. 22: 2023/10/05. 43: 2025/11/28
51: C10G; F01K; F22B

71: LINDE GMBH

72: ZELLHUBER, Mathieu, HÖRENZ, Michael,
SINN, Tobias, MAYER, Sebastian

33: EP 31: 21161749.3 32: 2021-03-10

**54: METHOD AND SYSTEM FOR
STEAMCRACKING**

00: -

A method of steam cracking using a steam cracking system (100) including a first steam cracking furnace unit (1000) or a plurality of first steam cracking furnace units (1000) and a second steam cracking furnace unit (2000) or a plurality of second steam cracking furnace units (2000) is proposed, wherein the first steam cracking furnace unit (1000) or each of the plurality of first steam cracking furnace units (1000) comprises one or more fired steam cracking furnaces (110), the second steam cracking furnace unit (2000) or each of the plurality of second steam cracking furnace units (2000) comprises one or more electric steam cracking furnaces (210), and the first steam cracking furnace unit (1000) or each of the plurality of first steam cracking furnace units (1000) comprises means for preheating at least a part of combustion air provided to its fired steam cracking furnace or furnaces (110) to a temperature level of at least 100 °C. A corresponding system (100) is also part of the present invention.

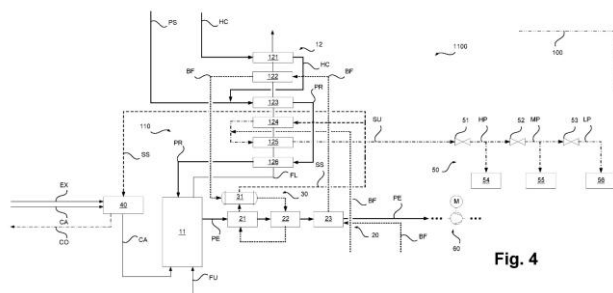


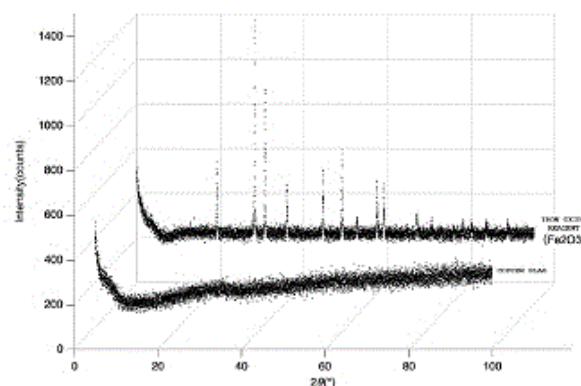
Fig. 4

21: 2023/09324. 22: 2023/10/05. 43: 2025/10/21
51: C03C; B09B; C04B
71: NIPPON FIBER CORPORATION
72: FUKAZAWA, HIROSHI, UWATOKO, YOSHIYA
33: JP 31: 2021-064565 32: 2021-04-06
54: ALKALI-RESISTANT NONCRYSTALLINE INORGANIC COMPOSITION AND FIBER THEREOF

00: -

[Problem] To develop a high added value material having excellent alkali-resistance, by effectively utilizing waste product discharged from coal-fired power plants and copper slag discharged from copper smelteries. [Solution] This inorganic composition, which has excellent alkali resistance and can be melt-spun, is obtained by preparing a noncrystalline inorganic composition containing, as main components, silica (SiO_2), iron oxide (Fe_2O_3),

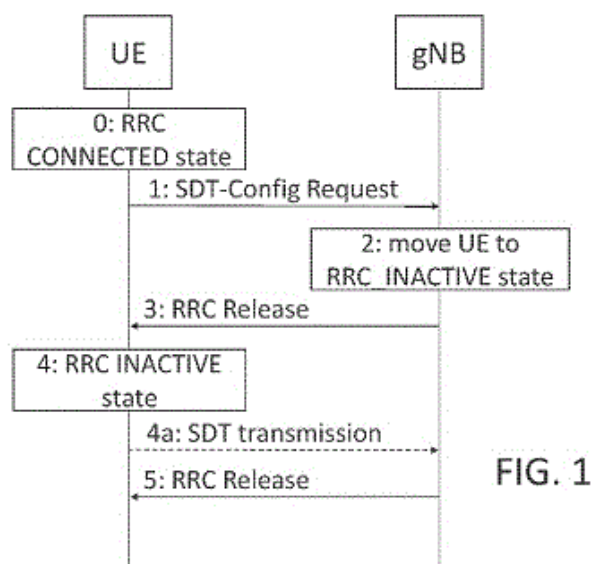
alumina (Al_2O_3), and calcium oxide (CaO), such that i) the silica, alumina, and calcium oxide are contained in a total amount of 50-75 mass%, ii) the iron oxide is contained in an amount not less than 26 mass% but less than 40 mass%, and iii) the iron oxide is derived from a noncrystalline raw material. Raw materials for the inorganic composition can be derived mostly from coal ash and copper slag.



21: 2023/09427. 22: 2023/10/09. 43: 2025/10/21
51: H04W
71: ZTE CORPORATION
72: MA, WEI, LIU, HONGJUN, ZHANG, BOSHAH, WEN, WU, LI, DONGMEI, MA, ZIJIANG, LU, CHEN
54: METHOD, DEVICE AND COMPUTER PROGRAM PRODUCT FOR WIRELESS COMMUNICATION

00: -

Method, device and computer program product for wireless communication are provided. A method includes: receiving, by a wireless communication terminal, a first release message; and releasing, by the wireless communication terminal, at least one small data transmission, SDT, configuration stored in the wireless communication terminal according to a cell where the first release message is received or according to information of SDT configuration carried by the first release message.



21: 2023/09540. 22: 2023/10/12. 43: 2025/10/21
51: A61K; A61P; C07K

71: INTERNATIONAL CENTRE FOR GENETIC
ENGINEERING AND BIOTECHNOLOGY (ICGEB)
72: GIACCA, MAURO, RUOZI, GIULIA,
BORTOLOTTI, FRANCESCA

33: GB 31: 1906052.4 32: 2019-04-30

54: PROTEINS WITH CARDIOPROTECTIVE ACTIVITY

00: -

A protein selected from the group consisting of
Chrdl1, Fam3c, Fam3b and a fragment thereof, or a
polynucleotide encoding therefor, for use in treating
or reducing the risk of heart disease.

21: 2023/09596. 22: 2023/10/13. 43: 2025/10/31
51: F16N

71: SKF LUBRICATION SYSTEMS GERMANY
GMBH

72: KREUTZKÄMPER, JÜRGEN, HESS, DIETER,
MANDERA, MARKUS, SCHOENFELD, ANDREAS,
SCHUERMANN, STEFAN, ZAHN, DENNIS

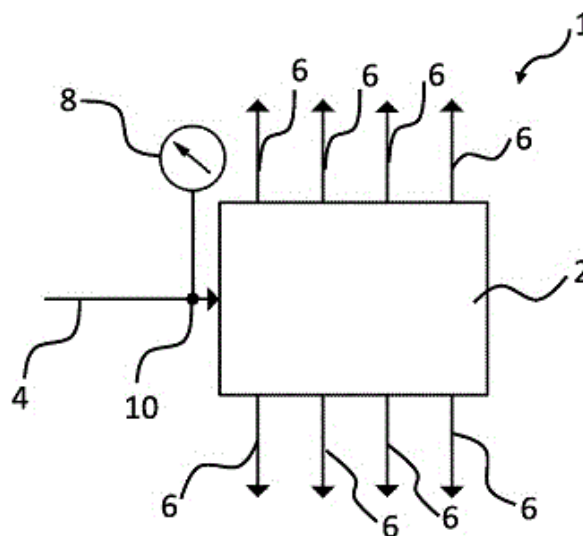
33: DE 31: 10 2021 204 617.7 32: 2021-05-06

54: LUBRICATION SYSTEM

00: -

The invention relates to a lubrication system (20)
having a progressive distributor (1), the progressive
distributor (1) having a housing block (2). The
housing block (2) has a lubricant inlet bore, via
which lubricant can be introduced into the
progressive distributor (1), and a plurality of lubricant
outlet bores, via each of which a measured amount

of lubricant can be dispensed to a consumer unit
connected to a particular lubricant outlet bore, a
plurality of metering pistons which are
accommodated in associated piston bores being
provided in the housing block (2) for dispensing the
measured amount of lubricant. Two lubricant outlet
bores are associated with each piston bore, and the
metering piston is displaceable in the piston bore
and is designed to free one or the other lubricant
outlet bore alternately, in order to dispense the
measured amount of lubricant via the lubricant outlet
bore to the consumer unit. The piston bores are
fluidically connected to the lubricant inlet bore, and
the piston bores are fluidically connected to one
another via connecting bores in order to deliver
lubricant to the other piston bores, at least one
pressure sensor (8) being provided, which is
designed to determine a lubricant pressure, the
pressure sensor (8) being located upstream of the
metering piston with respect to a lubricant flow
direction.



21: 2023/09598. 22: 2023/10/13. 43: 2025/10/31
51: F16N; F02D

71: SKF LUBRICATION SYSTEMS GERMANY
GMBH

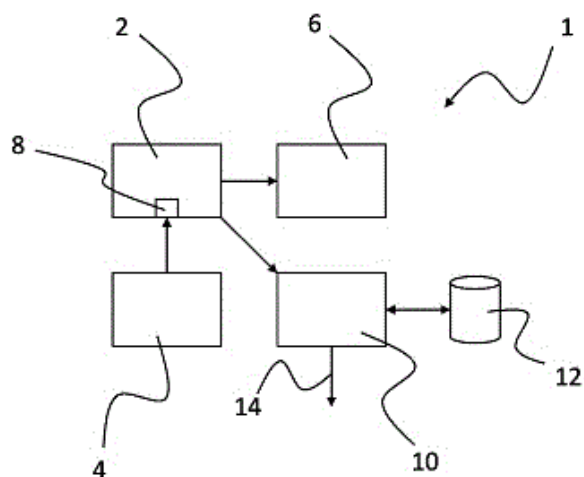
72: HESS, DIETER, KREUTZKÄMPER, JÜRGEN,
MANDERA, MARKUS, SCHOENFELD, ANDREAS,
SCHÜRMANN, STEFAN, ZAHN, DENNIS

33: DE 31: 10 2021 204 619.3 32: 2021-05-06

54: LUBRICATING SYSTEM

00: -

A lubricating system (1) is disclosed, having a progressive distributor (2) for dispensing lubricant to a consumer (6), wherein the progressive distributor (2) has at least one sensor (8), which is designed to determine at least one lubricant pressure within the lubricating system (1), wherein the lubricating system (1) also has a control device (10), which is designed to receive measured values from the sensor (8), wherein the control device (10) is designed to detect lubricating cycles on the basis of the measured values and to ascertain the average pressure of a lubricating cycle, to compare the ascertained average pressure with a normal pressure of the lubricating system (1) and to determine the state of the lubricating system (1) on the basis of the result of the comparison.



21: 2023/09599. 22: 2023/10/13. 43: 2025/10/21
51: C12Q

71: MARKER HOLDINGS AG

72: DI PIETRO, VALENTINA, BELL, ANTONIO

33: US 31: 63/170,438 32: 2021-04-02

54: BIOMARKERS OF MUSCULOSKELETAL INJURY

00: -

Methods of diagnosing, monitoring, treating, and predicting the course of musculoskeletal injury include determining a level of at least one RNA biomarker (e.g., miRNA) in a body fluid sample from a subject. Also described are sensor elements, detection systems, compositions, and kits for diagnosing, monitoring, treating, and predicting the course of a musculoskeletal injury.

21: 2023/09953. 22: 2023/10/25. 43: 2025/10/29

51: C07D A61K A61P

71: EQUINORM LTD

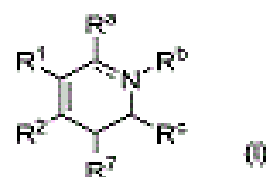
72: TAKIO, Ville

33: FI 31: 20215387 32: 2021-03-31

54: NOVEL HETEROCYCLIC COMPOUNDS AND THEIR USE

00: -

The present invention relates compounds of general formula (I) and stereoisomers and pharmaceutically acceptable salts thereof; wherein R¹, R², R⁷, R^a, R^b, R^c, and the dotted line is as defined in the claims. The invention also relates to pharmaceutical compositions comprising a compound of formula (I) and to said compounds for use as a medicament and particularly in the treatment or prevention of drug addiction and CNS related diseases and conditions. Further, the invention relates to methods for the preparation of a compound of formula (I), or pharmaceutically acceptable salt or a stereoisomer thereof.



21: 2023/11054. 22: 2023/11/30. 43: 2025/11/18

51: A61N

71: MICRO CURRENT TECHNOLOGY, INC.

72: SUZUKI, David S.

33: US 31: 63/576,441 32: 2022-12-29

33: US 31: 63/470,342 32: 2023-06-01

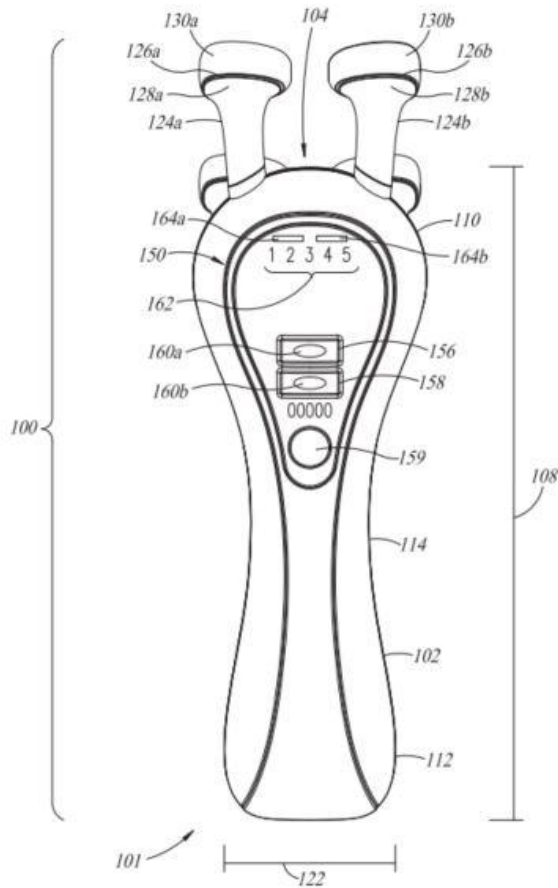
33: US 31: 18/379,303 32: 2023-10-12

54: SYSTEMS INCLUDING HANDHELD DEVICES TO DELIVER MICROCURRENTS AND/OR KINESIOLOGICAL SCULPTING, USEFUL IN SKIN CARE

00: -

A system advantageously includes a handheld device with a body with two pairs of electrodes mounted or carried by respective arms extending from the handheld body, where at least one pair of arms is movable (e.g., pivotal, rotatable) with respect to the body and hence with respect to the other pair of arms. The moveable arms can be biased toward an un-rotated position or orientation, applying a tension to bodily tissue via the moveable arms when rotated out of the un-rotated position or orientation. The

system optionally includes a circuit integral to the handheld device, or integral to a console to which the handheld device is coupled, the apparatus operable to deliver microcurrent signals via two separate channels and via interferential signals between the two separate channels, to facilitate kinesiology facial sculpting application in conjunction with the delivery of microcurrent signals, which can be employed in cosmetic applications.

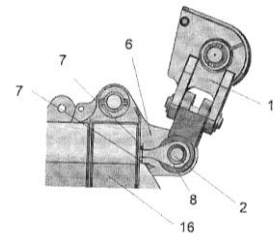


72: VERA TORRES, Bernardo Luis, FLORES
MORALES, Edwin Antonio, MORALES MERINO,
José Luis

54: ASSEMBLY FOR WEAR MONITORING AND PREVENTION OF BUSHINGS AND PINS IN PIVOT CONNECTIONS OF ELECTRIC SHOVEL BUCKETS

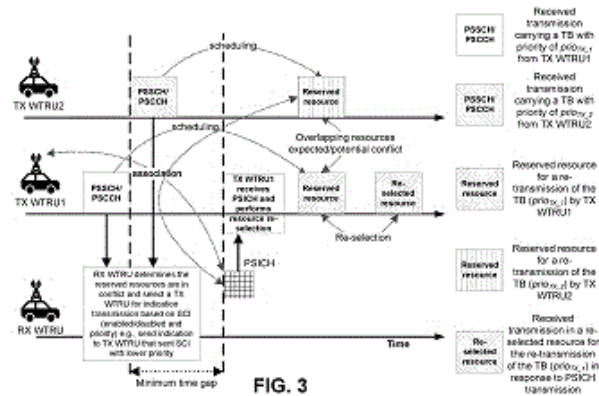
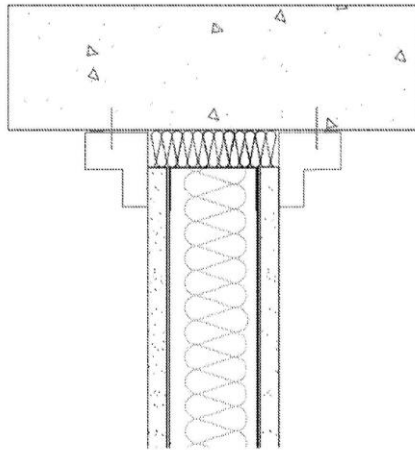
00: -

The invention refers to a set of monitoring and prevention of wear of bushings and pins in connections in buckets of electric shovels that has the objective of monitoring the condition of bushings to inform the moment of replacement of the component, in addition, to reduce wear by which is subjected to extend its useful life. The assembly comprises devices for locking pins in the bucket connections of electric excavator shovels, such as handles (bail) or padlocks (padlock), restricting the movement of the pins that interact with the bushings during the operation of the electric shovel bucket, preventing that rotate on their own axis so that rotational friction does not occur between said pin and the bushing, reducing wear. The set also includes wear indicators for the bushings of electric excavator shovels that use handles (bail) or padlocks (padlock), allowing the wear status of the bushings to be monitored and reported, to schedule maintenance, replace components and avoid critical failure of components that may generate unscheduled stoppages.



54: WALL PANEL

A system for securing a wall panel, said system comprising: a wall panel comprising a rear board, a front board forming an internal face for a room and a first side stud and a second side stud, each side stud connected to the front and rear boards to form the panel; and a head track for separating the first and second side studs; and a deflection head profile positioned adjacent to a top portion of the wall panel for holding the wall panel in position whilst allowing for deflection in the building.



21: 2024/01075. 22: 2024/02/01. 43: 2025/10/31
51: H04W

71: INTERDIGITAL PATENT HOLDINGS, INC.
72: DENG, TAO, HOANG, TUONG DUC, LEE,
MOON-IL, FREDA, MARTINO M

33: US 31: 63/249,260 32: 2021-09-28

33: US 31: 63/228,653 32: 2021-08-03

54: SIDELINK COLLISION DETECTION AND INDICATION

00: -

Systems, methods, and instrumentalities are described herein for sidelink (SL) collision detection and indication (e.g., in new radio (NR) vehicular communications (V2X)). A wireless transmit/receive unit (WTRU) may send resource reservations (e.g., in sidelink control information (SCI)). A receiving (RX) WTRU may receive SCI from (e.g., multiple) transmitting (TX) WTRUs, where the TX WTRUs are reserving resources for transmission. The TX WTRUs may be unaware of the other TX WTRUs (e.g., unaware of the resources being reserved by other TX WTRUs). Resources may be in conflict, for example, if the reserved resources overlap (e.g., partially or completely). Collision may occur, for example, if multiple TX WTRUs reserve the resources in conflict for transmission and/or if the TX WTRUs reserving the resources in conflict for transmission do not reselect a non-conflicting resource.

21: 2024/01196. 22: 2024/02/07. 43: 2025/10/20
51: G10L; H04S

71: DOLBY INTERNATIONAL AB

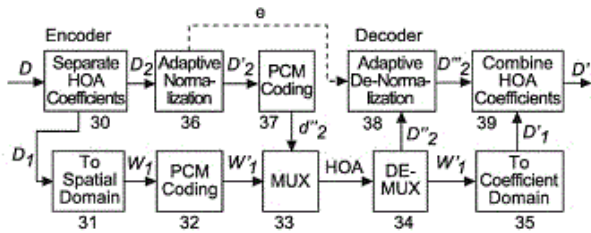
72: KORDON, SVEN, KRUEGER, ALEXANDER

33: EP 31: 13305986.5 32: 2013-07-11

54: METHOD AND APPARATUS FOR GENERATING FROM A COEFFICIENT DOMAIN REPRESENTATION OF HOA SIGNALS A MIXED SPATIAL/COEFFICIENT DOMAIN REPRESENTATION OF SAID HOA SIGNALS

00: -

There are two representations for Higher Order Ambisonics denoted HOA: spatial domain and coefficient domain. The invention generates from a coefficient domain representation a mixed spatial/coefficient domain representation, wherein the number of said HOA signals can be variable. A vector of coefficient domain signals is separated into a vector of coefficient domain signals having a constant number of HOA coefficients and a vector of coefficient domain signals having a variable number of HOA coefficients. The constant-number HOA coefficients vector is transformed to a corresponding spatial domain signal vector. In order to facilitate high- quality coding, without creating signal discontinuities the variable-number HOA coefficients vector of coefficient domain signals is adaptively normalised and multiplexed with the vector of spatial domain signals.



21: 2024/01601. 22: 2024/02/23. 43: 2025/10/15

51: F16J; F28D; F28F

71: Lummus Technology LLC

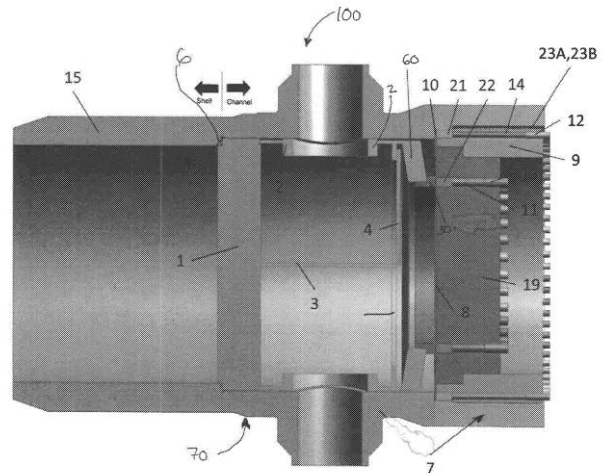
72: JIBB, Richard, JAYE, Trevor, BOEKHOUDER, Henk, GROPPi, Robert, BRIGNONE, Vincenzo Marco, EBERLY, Randy, CREECH, David, MEACHAM, Elizabeth

33: US 31: 62/645,662 32: 2018-03-20

54: HEAT EXCHANGER CLOSURE ASSEMBLIES AND METHODS OF USING AND INSTALLING THE SAME

00: -

A heat exchanger assembly including an elongated tubular heat exchanger enclosure defining an interior chamber. A tube sheet is positioned within the interior chamber of the heat exchanger enclosure separating the interior chamber into a shell side and a channel side. The interior portion is configured to removably receive a tube bundle positioned within the shell side of the interior chamber. An annular sleeve member is positioned within the channel side of the interior chamber of the heat exchanger enclosure. An annular elastic torsion member is positioned within the channel side of the interior chamber of the heat exchanger such that the sleeve member is positioned between the tube sheet and the elastic torsion member. The elastic torsion member has an inner circumference deflectable relative to its outer circumference for torsioning the elastic torsion member.



21: 2024/01686. 22: 2024/02/27. 43: 2025/10/15
51: G21C

71: BIN MUSTAPHA @ PA, AZRUDI, ARDRON, KEITH HENRY

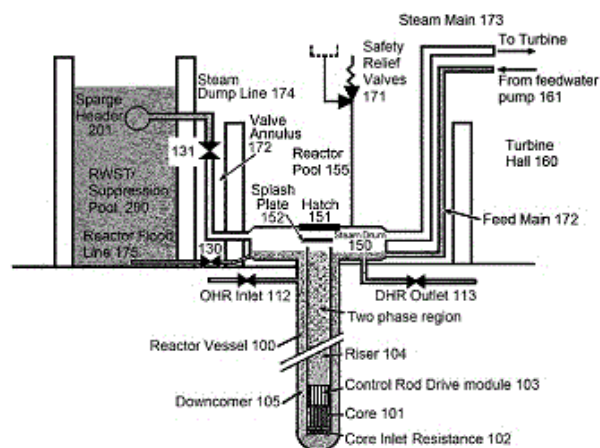
72: BIN MUSTAPHA @ PA, AZRUDI, ARDRON, KEITH HENRY

33: EP 31: 21189257.5 32: 2021-08-03

54: A LOW PRESSURE WATER REACTOR AND A METHOD FOR CONTROLLING A LOW PRESSURE WATER REACTOR

00: -

A low pressure water reactor (LPWR) and a method for controlling a LPWR are proposed. The LPWR comprises a reactor vessel with an internal cavity comprising a primary coolant, a riser tube, and a core located below ground level with 6-15 bars atmosphere pressure; a steam drum connected to the riser tube and located at ground level at a pressure of 1 -10 bars absolute; a water storage tank to store borated water; a passive injection system to inject the borated water from the water storage tank into the vessel; and low pressure steam turbines to generate power at a pressure of 1-10 bars atmosphere. The vessel heats water up to a certain temperature and the riser tube converts the heated water to steam, which is further delivered to the turbine(s). The conversion creates a difference in a primary coolant density that initiates a density-driven natural circulation of the primary coolant in the riser tube, downcomer, steam drum and core.



21: 2024/01887. 22: 2024/03/06. 43: 2025/10/01

51: A61M; H01R; A24F

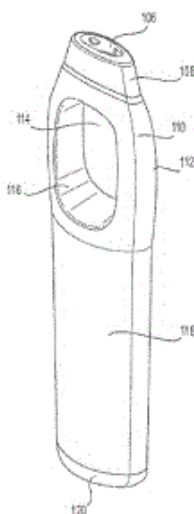
71: ALTRIA CLIENT SERVICES LLC

72: NEWCOMB, RYAN, BACHE, TERRY, HAWES, ERIC, LAU, RAYMOND, POPA, CRISTIAN, YORKSHADES, JAMES

33: US 31: 15/601,365 32: 2017-05-22

54: POD ASSEMBLY, DISPENSING BODY, AND E-VAPOR APPARATUS INCLUDING THE SAME
00: -

An e-vapor apparatus comprising a pod assembly. The pod assembly includes a pre-vapor formulation compartment, a first electrical connector, a vapor channel traversing the pre-vapor formulation compartment, and a vaporizer. The pre-vapor formulation compartment is configured to hold a pre-vapor formulation therein and in fluidic communication with the vaporizer during an operation of the e-vapor apparatus. The first electrical connector includes first and second power electrodes configured to provide a power connection. The first power electrode includes a first contact portion on an exterior of the first electrical connector and a first extended portion configured to contact an anode portion of the vaporizer. The second power electrode includes a second contact portion on the exterior of the first electrical connector and a second extended portion configured to contact a cathode portion of the vaporizer. Each of the first contact portion and the second contact portion includes a part that extends away from the exterior of the first electrical connector to connect to a power supply. The first electrical connector includes at least one data contact configured to provide a data connection.



21: 2024/01894. 22: 2024/03/06. 43: 2025/11/18

51: B07B

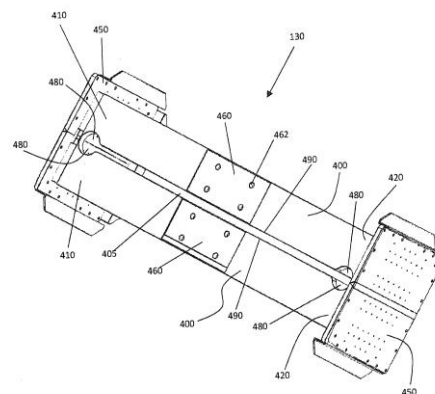
71: MIS.CARBONART PTY LTD (A SUBSIDIARY OF MINERAL RESOURCES LIMITED)

72: WECKEND, Carsten

33: AU 31: 2021902578 32: 2021-08-18

54: DRIVE MEMBER ASSEMBLY FOR A VIBRATORY SCREEN
00: -

The invention provides a drive member assembly (130) for a vibratory screen (100) having a frame (110), comprising drive members or beams (400) having opposed ends (410, 420) for engaging the frame. There is an opening (480), preferably curved, at or adjacent at least one of the opposed ends (410, 420) for relieving stress on each drive member (400). A vibratory screen (100) incorporating the drive member assembly (130) is also provided.



21: 2024/01895. 22: 2024/03/06. 43: 2025/11/18

51: B07B

71: MIS.CARBONART PTY LTD (A SUBSIDIARY OF MINERAL RESOURCES LIMITED)

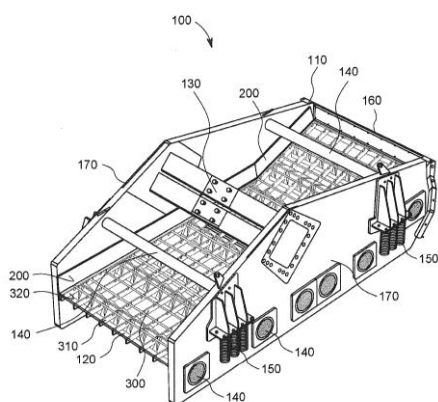
72: BARNES, Philip

33: AU 31: 2021902577 32: 2021-08-18

54: PROTECTIVE PLATE FOR A VIBRATORY SCREEN

00: -

The invention provides a protective plate (200) for a vibratory screen (100) having a side panel (170) and a screen deck (120). The protective plate (200) comprises an outer surface (210) for connecting the protective plate to the side panel (170) and an inner surface (220) for protecting the side panel. The inner surface (220) has one or more connecting elements (230) for connecting the protective plate (200) to the screen deck (120).



21: 2024/01896. 22: 2024/03/06. 43: 2025/11/18
51: B07B; B32B

71: MIS.CARBONART PTY LTD (A SUBSIDIARY OF MINERAL RESOURCES LIMITED)

72: BARNES, Philip, WECKEND, Carsten, VINCAN, Alex, DE HAAS, David

33: AU 31: 2021902579 32: 2021-08-18

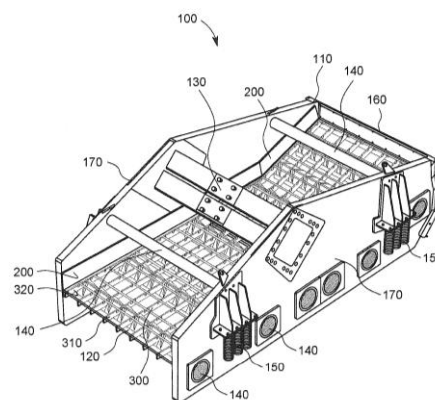
33: AU 31: 2021902580 32: 2021-08-18

54: IMPROVEMENTS IN VIBRATORY SCREENS

00: -

The invention provides a vibratory screen (100) with several improvements. A side panel (160) comprises an outer carbon fibre layer (1720), an inner carbon fibre layer (1710) and a foam layer (130) between the inner and outer carbon fibre layers. A support beam (140) comprises an inner core (1420) having at least one carbon fibre layer and an outer polymeric shell (1425) formed on the at least one carbon fibre layer. A protective cover (1800) for the support beam (140) comprises a cover body (1810)

and one or more deflecting elements (1820) for deflecting material away from the support beam. Other improvements include a protective plate (200) for the side panels (160) and a driver member assembly (130) having drive beams (400) with an opening (480) to relieve stress.



21: 2024/02343. 22: 2024/03/22. 43: 2025/10/17
51: H04N

71: INTERDIGITAL CE PATENT HOLDINGS, SAS

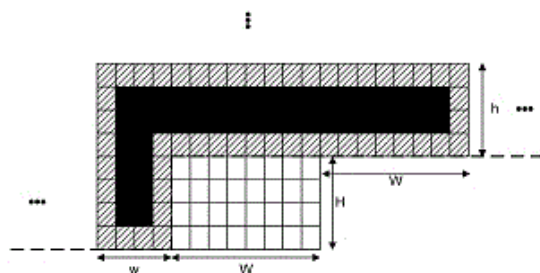
72: DUMAS, THIERRY, LE LEANNEC, FABRICE, GALPIN, FRANCK, BORDES, PHILIPPE

33: EP 31: 21306345.6 32: 2021-09-28

54: IMPROVING THE ANGLE DISCRETIZATION IN DECODER SIDE INTRA MODE DERIVATION

00: -

Decoder side intra mode derivation (DIMD) capability is enhanced by using reference pixels that extend several rows above and several columns left of a current video block, and also includes pixels above and left of the current video block, as well as columns above and right and rows below and left of the current video block. The reference pixels are formed from surrounding reconstructed/previously encoded samples surrounding the current video block. The derivation of an intra prediction mode is determined from gradients determined from each of the reference pixels in a defined surrounding area. In one embodiment, the gradients are determined using horizontal and vertical filters. In a sub-embodiment, the filters do not extend beyond the defined surrounding area. In another embodiment, reassignment of an index indicative of the target intra prediction mode is performed.

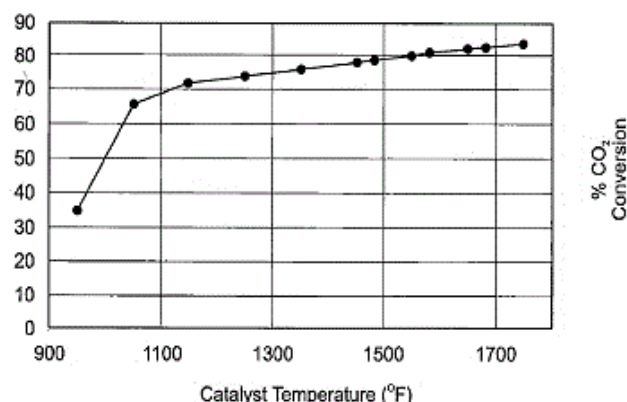


21: 2024/03333. 22: 2024/04/29. 43: 2025/10/30
 51: B01J; C10K
 71: INFINIUM TECHNOLOGY, LLC
 72: SCHUETZLE, DENNIS, SCHUETZLE, ROBERT,
 GALLOWAY, ANJA RUMPLECKER, HANBURY,
 ORION

33: US 31: 17/300,820 32: 2021-11-16
**54: IMPROVED CO₂ HYDROGENATION
 CATALYSTS FOR THE COMMERCIAL
 PRODUCTION OF SYNGAS**

00: -

The present invention is directed to the production of low-carbon syngas from captured CO₂ and renewable H₂. The H₂ is generated from water using an electrolyzer powered by renewable electricity, or from any other method of low-carbon H₂ production. The improved catalysts use low-cost metals, they can be produced economically in commercial quantities, and they are chemically and physically stable up to 2,100 °F. CO₂ conversion is between 80% and 100% with CO selectivity of greater than 99%. The catalysts don't sinter or form coke when converting H₂.CO₂ mixtures to syngas in the operating ranges of 1,300-1,800 °F, pressures of 75- 450 psi, and space velocities of 2,000-100,000 hr⁻¹. The catalysts are stable, exhibiting between 0 and 1 % CO₂ conversion decline per 1,000 hrs. The syngas can be used for the synthesis of low-carbon fuels and chemicals, or for the production of purified H₂.



21: 2024/03885. 22: 2024/05/20. 43: 2025/11/20
 51: C25B; F03D; F04B; H02J; H02S
 71: ICEHGL PTE. LTD.

72: PRIEST, Warner Denis, COLWILL, Richard
 Douglas, TANCOCK, Alexander Keith
 33: US 31: 63/287,841 32: 2021-12-09

**54: SYSTEM FOR COLLECTING, GENERATING,
 AND TRANSMITTING GIGAWATT SCALE
 ENERGY FROM A PLURALITY OF DISTRIBUTED
 SOURCES DISPERSED OVER AN AREA**

00: -

A system for collecting, generating, and transmitting Gigawatt scale energy is provided. The system comprises a geographically dispersed network comprising a plurality of nodes, each node comprising: a water source; renewable energy sources comprising: a wind turbine string of a plurality of wind turbines; and a solar photovoltaic string; a nodal substation in electrical communication with the renewable energy sources. The nodal substation comprises: at least one electrolyser in electrical communication with the renewable energy sources, the at least one electrolyser configured to convert water from the water source into hydrogen, or hydrogen compound, with electricity from the renewable energy sources; a compressor to compress hydrogen, or hydrogen compound, from the at least one electrolyser into a pipeline fluidly connecting each node. The nodal substation is positioned a distance from the renewable energy sources such that energy transfer efficiency to a load exceeds traditional high voltage power transmission.

21: 2024/04070. 22: 2024/05/24. 43: 2025/10/31

51: A61K; A61P

71: G2GBIO, INC.

72: KIM, GEONHO, LEE, JINWOO, JUNG, HYEJUNG, CHOI, JAEMOOK, BYUN, JEONGSU, LEE, JUHAN, SEOL, EUNYOUNG, LEE, HEEYONG

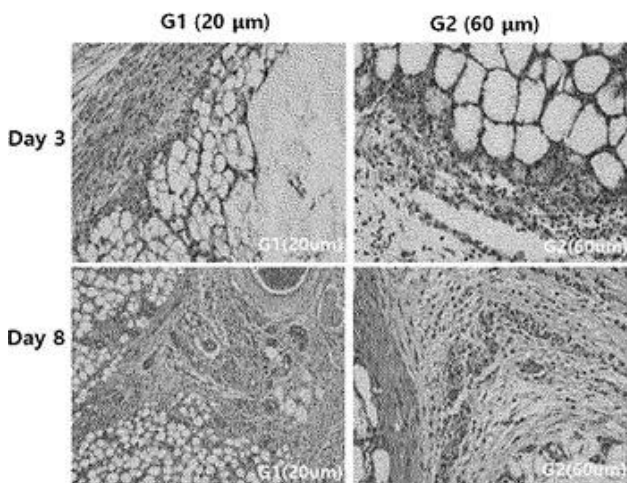
33: KR 31: 10-2022-0110883 32: 2022-09-01

33: KR 31: 10-2021-0151652 32: 2021-11-05

54: PHARMACEUTICAL KIT FOR PARENTERAL CO-ADMINISTRATION

00: -

The present invention relates to a pharmaceutical kit for parenteral co-administration, comprising a first formulation comprising a first drug, and a second formulation comprising a second drug and a parenteral drug delivery system. Due to the drug delivery system included in the second formulation, the pharmaceutical kit may be used, in an administration subject, for preventing, alleviating, or treating inflammatory reactions, or may be used for regulating the decomposition of the parenteral drug delivery system included in the second formulation, or for increasing the bioavailability of the second drug included in the second formulation.



21: 2024/04283. 22: 2024/05/31. 43: 2025/12/05

51: A61B

71: HangZhou Sunstone Technology Co., Ltd.

72: SHI, Lei, HUANG, Hongjing, CHEN, Xiongquan, MA, Yanli, CHEN, Xiaorong, CHEN, Yuzhu, WENG, Yaxue, MEI, Dongqiu

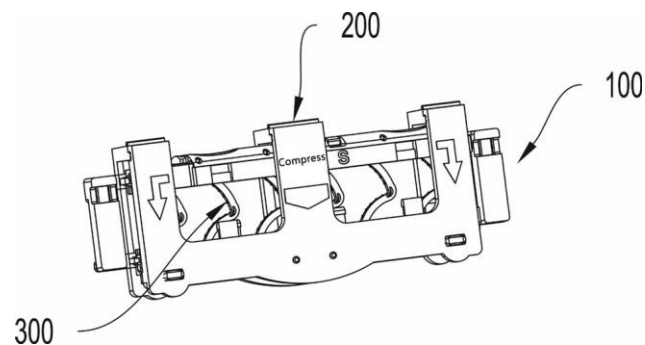
33: WO 31: PCT/CN2022/105689 32: 2022-07-14

33: CN 31: 202210297955.2 32: 2022-03-24

54: LIGATION CLIP FOR CONTINUOUS SHOOTING

00: -

A ligating clip for continuous firing and a process, which can arrange a plurality of ligating clips in a diastolic state and an orderly sequence in the same direction and fix them in a continuous firing cartridge; Moreover, the ligating clip in the cartridge can be compressed to the allowable range of the puncture cannula by directional movement of the continuous firing cartridge in the cartridge sleeve, and the continuous firing cartridge can be separated from the cartridge sleeve; Alternative-ly, after the positioning guide post is arranged on the side cartridge, the positioning guide post is provided with a positioning groove, so that the ligating clip is precisely positioned into the T-shaped upper slot between the first upper cartridge and the second upper cartridge, and the T-shaped lower slot between the first lower cartridge and the second lower cartridge.



21: 2024/04462. 22: 2024/06/07. 43: 2025/10/09

51: C07D; A61K; A61P

71: ISHIHARA SANGYO KAISHA, LTD.

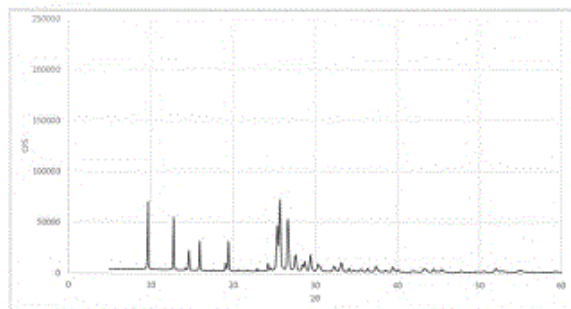
72: SHIKAMA, HIROSHI, HIGUCHI, KOJI, ATSUMI, SHOGO, SHIOTA, HIROTO, IMURA, TAKAYUKI

33: JP 31: 2021-199461 32: 2021-12-08

54: HYDRATE CRYSTAL OF 5-CHLORO-4-(3-CHLORO-4-METHYLPHENYL)-1H-IMIDAZOLE-2-CARBONITRILE

00: -

The present invention relates to a hydrate crystal of 5-chloro-4-(3-chloro-4-methylphenyl)-1H-imidazole-2-carbonitrile.



21: 2024/04471. 22: 2024/06/10. 43: 2025/10/03
51: B25F
71: KEYSTONE ELECTRICAL (ZHEJIANG) CO., LTD.

72: WU, NING, YU, JUNFU, FU, RUNZE, ZHU, JIANWEI, ZHAO, QIBIN, ZHAO, LIWEI, DONG, WEIPING

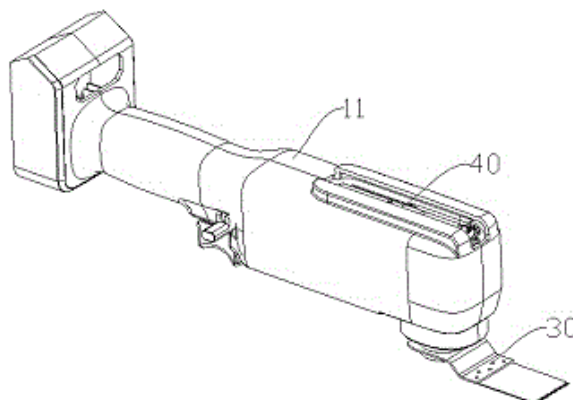
33: CN 31: 2023116072812 32: 2023-11-27

54: QUICK-CHANGE DEVICE AND ELECTRIC TOOL

00: -

The present invention relates to the technical field of electric tools, and discloses a quick-change device and an electric tool. The quick-change device is mounted on a machine shell assembly, including a clamping assembly and a rotating arm assembly. The clamping assembly includes a first elastic member, a static pressure assembly, and a dynamic pressure assembly. The rotating arm assembly is rotatably disposed in the machine shell assembly, where the rotating arm assembly includes a rotating arm, the rotating arm has a notch portion and a force application portion, the rotating arm has a first working state in which a top of the dynamic pressure assembly is placed in the notch portion, and a second working state in which the force application portion applies a force to the dynamic pressure assembly; and in the second working state, the dynamic pressure assembly moves in a direction away from the static pressure assembly to loosen the working accessory. When replacing the working accessory, the rotating arm is adjusted to move, so that the force application portion applies the force to the top of the dynamic pressure assembly, and the dynamic pressure assembly is forced to move downwards, so that the dynamic pressure assembly is separated from the static pressure assembly, to replace the working accessory. The working accessory can be quickly replaced with one hand,

thereby improving the convenience of replacing the accessory.



21: 2024/04472. 22: 2024/06/10. 43: 2025/10/03
51: B25F

71: KEYSTONE ELECTRICAL (ZHEJIANG) CO., LTD.

72: WU, NING, YANG, JINWEI, HUANG, JINXING, ZHAO, QIBIN, ZHAO, LIWEI, YU, JUNFU, DONG, WEIPING

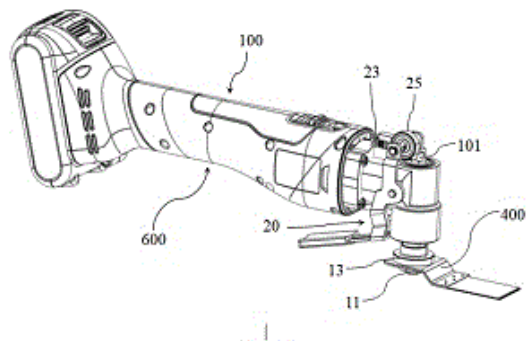
33: CN 31: 2023108736031 32: 2023-07-15

54: ELECTRIC TOOL

00: -

The present application provides an electric tool, which includes a casing assembly, a clamping device, a driving device, and a quick replacement device, where the quick replacement device includes a rotating arm assembly, the rotating arm assembly is rotatably connected to the casing assembly, one end of the rotating arm assembly is connected to a top end of the dynamic pressure assembly, the other end of the rotating arm assembly extends to a position below the casing assembly, and the rotating arm assembly can drive the dynamic pressure assembly to move in a direction being away from the static pressure assembly through self rotation to release a working accessory. The electric tool provided by the present application is provided with the quick replacement device which can quickly replace accessories. By rotating the rotating arm assembly to overcome clamping elastic force of the clamping device, the working accessory is released for easy replacement. During replacement of the accessory, one hand holding the electric tool can pull one end of the rotating arm assembly, allowing the dynamic pressure assembly to overcome the elastic force and separate from the static pressure

assembly, the working accessory is taken down and replaced, and then the rotating arm assembly is released to complete quick replacement of the working assembly.



21: 2024/04531. 22: 2024/06/11. 43: 2025/09/19
51: E21B

71: Sandvik Mining and Construction Tools AB

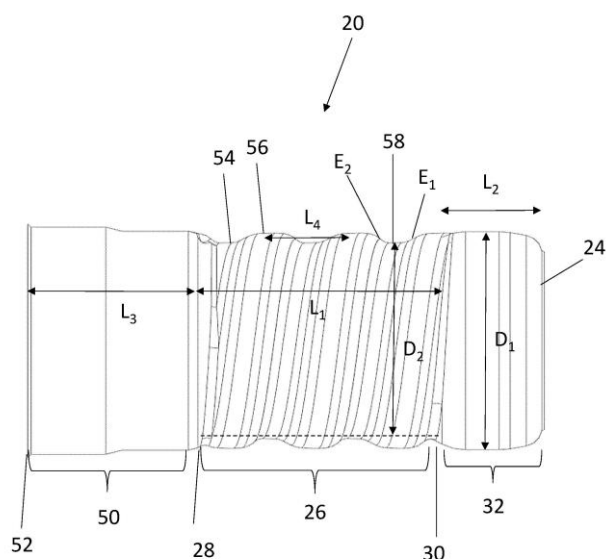
72: HAMMARGREN, John

33: EP(CH) 31: 21209361.1 32: 2021-11-19

54: THREAD PITCH

00: -

A female portion to form part of a thread joint for a percussive drilling tool comprising: a mounting sleeve; wherein the mounting sleeve has at least one substantially cylindrical internally threaded section having a length, L_1 , a thread entrance towards an axial end and a thread exit towards the axial inner wall; wherein the threaded section has a thread form including crests, roots, contact flanks, and non-contact flanks, and having a pitch length, L_4 , between two axially neighbouring crests and an inner diameter, D_2 , radially between the roots; a thread clearance section positioned between the axial inner wall and the thread exit having a length L_2 and a diameter D_1 ; a guiding section positioned between the thread entrance and the axial end of the sleeve having a length, L_3 ; characterized in that: the pitch length, L_4 , is between 12.8 – 14.5 mm.



21: 2024/04564. 22: 2024/06/12. 43: 2025/10/31
51: B01J; C07C

71: DOW TECHNOLOGY INVESTMENTS LLC

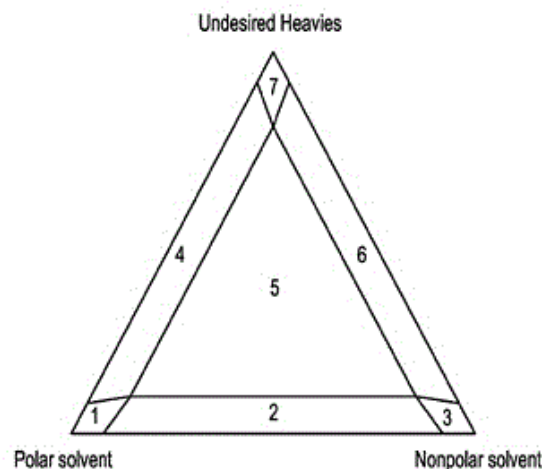
72: LAROCHE, CHRISTOPHE R

33: US 31: 63/265,513 32: 2021-12-16

54: TRANSITION METAL COMPLEX HYDROFORMYLATION CATALYST PRECURSOR COMPOSITIONS COMPRISING SUCH COMPOUNDS, AND HYDROFORMYLATION PROCESSES

00: -

The present disclosure relates generally to transition metal complex hydroformylation catalytic precursor compositions, to hydroformylation processes, and to processes for separating one or more heavies from a hydroformylation reaction product fluid in hydroformylation processes comprising a metal-monophosphite ligand complex catalyst.



21: 2024/04615. 22: 2024/06/13. 43: 2025/09/19

51: A61K; A61P

71: Pfizer Inc.

72: ANDERS, Lars, LI, Jerry, LIN, Tun Tun, VANARSDALE, Todd Lee, WEI, Ping, YANG, Jing
33: US 31: 63/285,457 32: 2021-12-02

54: METHODS AND DOSING REGIMENS COMPRISING A CDK2 INHIBITOR AND A CDK4 INHIBITOR FOR TREATING CANCER

00: -

This disclosure relates to combination therapies for use in treating cancer, comprising a CDK2 inhibitor of Formula (I) and a selective CDK4 inhibitor of Formula (II), each as further described herein, optionally in further combination with an additional anti-cancer agent.

21: 2024/04620. 22: 2024/06/13. 43: 2025/09/19

51: C07C; C08L; C09K

71: Sennics Co., Ltd.

72: MIAO, Zhengan, LI, Shiwu, GAO, Yang, QIU, Lingling, ZHANG, Pingting

33: CN 31: 202210004337.4 32: 2022-01-04

54: N-(3,5,5-TRIMETHYLCYCLOHEXYL)-N'-PHENYL P-PHENYLENEDIAMINE, AND SYNTHESIS METHOD THEREFOR

00: -

Disclosed in the present invention are a novel p-phenylenediamine rubber anti-aging agent containing a cycloalkyl structure: N-(3,5,5-trimethylcyclohexyl)-N'-phenyl p-phenylenediamine, and a synthesis method therefor. The present rubber anti-aging agent can increase the vulcanization speed of a rubber material, shorten scorching time, improve heat-resistant oxygen aging performance of the rubber, and at the same time, keep good original physical properties, flexing resistance and dynamic fatigue resistance.

21: 2024/04771. 22: 2024/06/19. 43: 2025/10/14

51: B01D; B04C

71: CATERPILLAR INC.

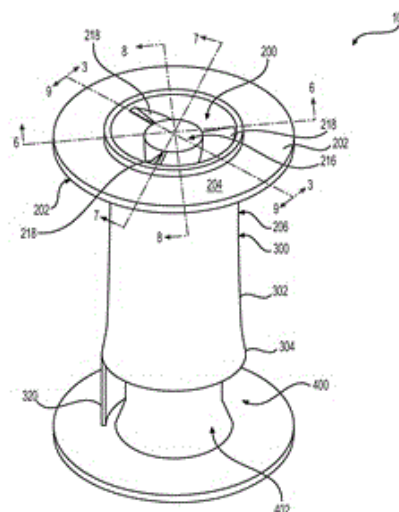
72: CALIENDO, VINCENT P

33: US 31: 17/558,772 32: 2021-12-22

54: AIR PRE-CLEANER SPIN TUBE

00: -

An air pre-cleaner spin tube (100) includes a vaned inlet section (200) including an inlet flange (202), and an outer tube inlet portion (206) including an outer wall (208) forming a nozzle (210) that defines a radial direction, and a longitudinal axis (214). Also, a central stem (216) is disposed in the nozzle (210), and a plurality of vanes (218) extend from the central stem (216) to the outer wall (208).



21: 2024/04792. 22: 2024/06/19. 43: 2025/10/01

51: B06B; H02K

71: MOHLALEFI (PTY) LTD.

72: MASITISE, MARTIN NARE

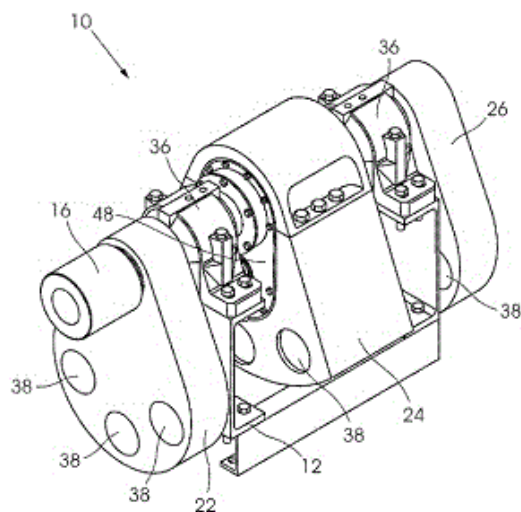
33: ZA 31: 2021/10240 32: 2021-12-10

33: ZA 31: 2021/06116 32: 2021-08-25

54: LINEAR MOTION EXCITER

00: -

A linear motion exciter, comprising axially aligned, out of balance weights, and which is typically used to generate vibrations in vibration machines. The linear motion exciter comprises a drive shaft operatively driven in a first rotational direction about an axis of rotation. A first weight is fixed relative to the drive shaft and configured to rotate about the axis of rotation in the first rotational direction. A second weight is fixed relative to or carried by the drive shaft and configured operatively to rotate about the axis of rotation in a second, opposite rotational direction.



21: 2024/04799. 22: 2024/06/19. 43: 2025/10/20

51: A61K

71: AKAGERA MEDICINES, INC.

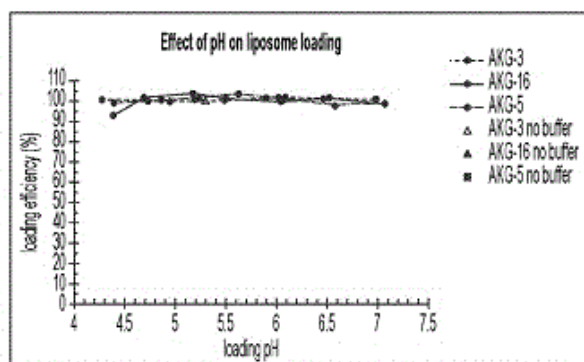
72: KIRPOTIN, DMITRI B, KOSHKARYEV, ALEXANDER, NOBLE, CHARLES O, DRUMMOND, DARYL C

33: US 31: 63/292,899 32: 2021-12-22

54: OXAZOLIDINONE LIPOSOME COMPOSITIONS

00: -

Aspects of the disclosure relate to various liposomal compositions of oxazolidinone compounds, and related methods of manufacturing and using the oxazolidinone liposome compositions. In some embodiments, the liposome compositions have improved storage stability with regard to component degradation.



21: 2024/04879. 22: 2024/06/21. 43: 2025/11/18

51: H04B

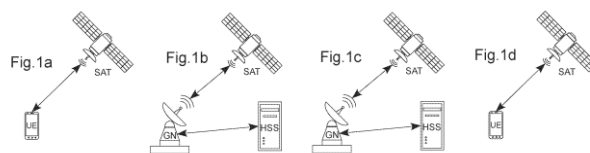
71: SATELIO IOT SERVICES, S.L.

72: CALVERAS AUGÉ, Ana María, RIGAZZI, Giovanni, KELLERMANN, Timo, CAMPS MUR, Daniel, GUADALUPI, Marco, SANPERA IZOARD, Jaume

54: METHOD OF ASYNCHRONOUS DATA COMMUNICATION AND REGISTRATION OF A USER EQUIPMENT

00: -

The present invention is aimed at a method and a system of asynchronous data communication and a method for registering the user equipment in the mobile communication network, and more specifically to a method that enables bidirectional data transmission between a user equipment, a constellation of satellites and a terrestrial station connected to a core of a mobile communication network when the user equipment and/or the terrestrial station are not simultaneously visible to at least one satellite of the constellation.



21: 2024/04949. 22: 2024/06/24. 43: 2025/09/25

51: C07C

71: Sennics Co., Ltd.

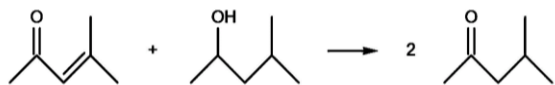
72: MIAO, Zhengan, LI, Shiwu, XIANG, Yingjie

33: CN 31: 202210005993.6 32: 2022-01-04

54: METHOD FOR PREPARING METHYL ISOBUTYL KETONE

00: -

The present invention provides a method for preparing methyl isobutyl ketone. The method comprises: reacting mesityl oxide and methyl isobutyl alcohol under the action of a copper-based catalyst to produce methyl isobutyl ketone. In the present invention, mesityl oxide and methyl isobutyl alcohol are employed to carry out hydrogen in-situ transfer under the action of a copper-based catalyst, and methyl isobutyl ketone is prepared in one step. The entire reaction process does not require an external hydrogen system. The reaction is carried out under normal pressure and the process flow is short, has the advantages of high atom utilization, high safety and the like, and is suitable for popularization and industrial application.



21: 2024/04987. 22: 2024/06/25. 43: 2025/10/31

51: F28D

71: PAVAN S.P.A.

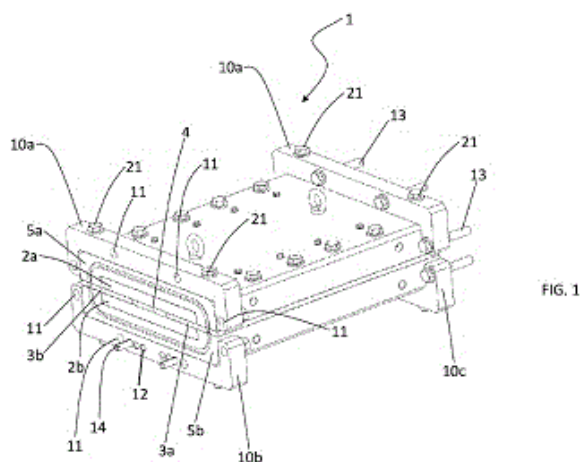
72: LENTI, MASSIMO, TESSER, GIORGIO, FAVERO, NICOLA

33: EP 31: 22203177.5 32: 2022-10-24

54: A HEAT EXCHANGER MODULE AND A DIE COMPRISING A PLURALITY OF MODULES

00: -

A heat exchanger module (1) comprising: - two plates (2a, 2b) that are arranged in parallel and spaced from each other by means of two spacing elements (3a, 3b) so as to define a channel (4) for the passage of a fluid product, the channel (4) being delimited by the plates (2a, 2b) and the spacing elements (3a, 3b); - two concave shells (5a, 5b), each of the plates (2a, 2b) being integrally fixed to one of the concave shells (5a, 5b); - at least one passage (P) for a heat transfer fluid, the passage (P) being defined in a pocket (15) between one of the plates (2a, 2b) and the 10 corresponding concave shell (5a, 5b), the passage (P) being defined by one or more diverters (18) arranged within the pocket (15).



21: 2024/05021. 22: 2024/06/26. 43: 2025/10/14

51: A61B

71: ORTHOFIX S.R.L., TEXAS SCOTTISH RITE HOSPITAL FOR CHILDREN

72: VENTURINI, DANIELE, OTTOBONI, ANDREA, LUPATINI, MICHAEL, ROSS, JOHN D,

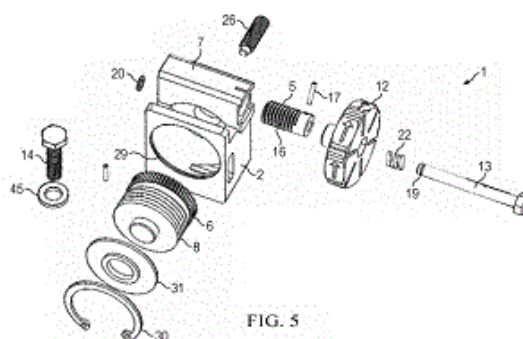
SAMCHUKOV, MIKHAIL L, CHERKASHIN, ALEXANDER M, STANDEFER, KAREN D

33: US 31: 17/560,789 32: 2021-12-23

54: ORTHOPEDIC CABLE BONE TRANSPORT DEVICE AND BONE TRANSPORT SYSTEM COMPRISING SAID DEVICE

00: -

The present invention relates to a cable pulling device (1) for orthopedic bone transport, comprising: a main body (2); a worm gear mechanism (4) disposed in the main body (2), and a reel (8) set into rotation by the worm gear mechanism (4) and meant to wind up a cable which is secured to a transport bone segment.



21: 2024/05043. 22: 2024/06/27. 43: 2025/10/14

51: C07D

71: ADAMA AGAN LTD.

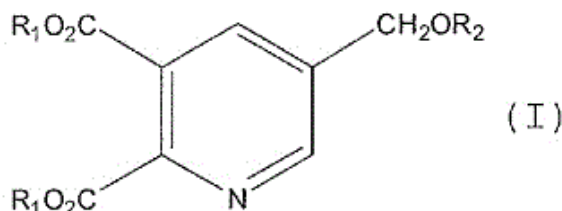
72: KUSNIEC, TZURIT, TZOR, OMER, YACOVAN, AVIHAI

33: US 31: 62/424,888 32: 2016-11-21

54: PROCESS FOR PREPARING METHOXY METHYL PYRIDINE DICARBOXYLATE

00: -

The present invention provides a process for preparing a compound of the formula (I): wherein each occurrence of R1 is a C1-C4 alkyl; and R2 is C1-C4 alkyl.



21: 2024/05054. 22: 2024/06/27. 43: 2025/10/02

51: H04L; H04W

71: QUALCOMM Incorporated

72: MANOLAKOS, Alexandros, GAAL, Peter, CABRERA MERCADER, Carlos, RYU, Jae Ho, WU, Yongle, HSU, Chun-Hao

33: US 31: 63/266,627 32: 2022-01-10

54: SRS POSITIONING BWP IN RRC INACTIVE OR IDLE POSITIONING

00: -

Methods, apparatuses, and computer-readable storage medium for wireless communication are provided. An example method may include transmitting, to a network entity, a capability for a transmission of one or more positioning SRS outside of an initial UL BWP during an idle state or an inactive state of the UE. The example method may further include receiving, from the network entity, a configuration for the transmission of the one or more positioning SRS outside of the initial UL BWP during the idle state or the inactive state. The example method may further include transmitting, to the network entity based on the configuration, the one or more positioning SRS outside of the initial UL BWP.

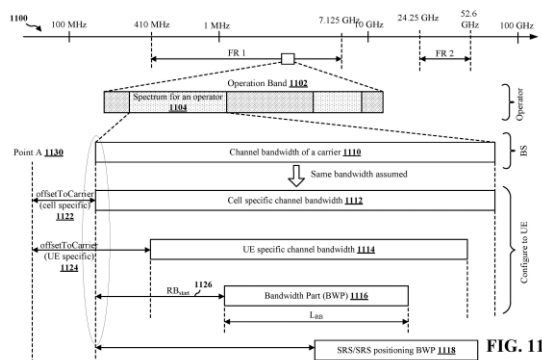


FIG. 11

when pressure is applied to the reservoir by a user of the dispenser and to spontaneously return to its original shape upon release. The reservoir (1) further comprises a flexible bag (3) in the internal space defined by the wall (2) thereof, for holding the liquid product. The dispenser comprises an air inlet means (14) for letting air in between the wall (2) of the reservoir (1) and the flexible bag (3), and a head that comprises a drip end piece (7) comprising a dispensing opening. The dispenser also comprises a hydrophilic sterilizing microporous membrane (10) which is arranged so that the liquid from the flexible bag passes therethrough on the way to being dispensed. The dispenser comprises a device that is configured to keep the membrane (10) wetted with the liquid product from the reservoir (1) between two instances of the liquid product being dispensed. The microporous membrane (10) is selectively permeable to the liquid such that it prevents air from re-entering the flexible bag of the reservoir when the dispenser returns to its original shape. The volume of liquid dispensed is compensated for by the ingress of a corresponding volume of air between the wall (2) of the reservoir (1) and the flexible bag (3) via the air inlet means (14).

21: 2024/05059. 22: 2024/06/27. 43: 2025/10/27

51: A61F; A61J; B65D

71: Laboratoires Thea

72: QUAGLIA, Benjamin

33: FR 31: 2112639 32: 2021-11-29

54: DISPENSER FOR DRIP-DISPENSING A STERILE LIQUID PRODUCT CONTAINING A SURFACTANT

00: -

The invention relates to a dispenser for drip-dispensing a sterile liquid product containing a surfactant. The dispenser comprises a reservoir (1) comprising a wall (2) that is designed to deform

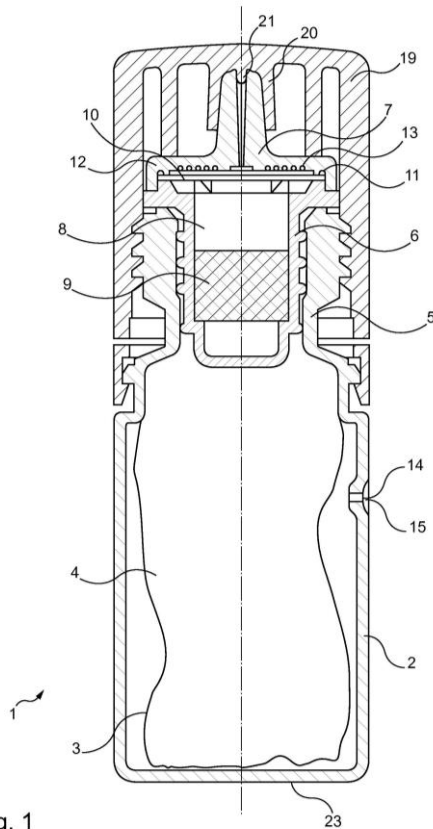


Fig. 1

21: 2024/05097. 22: 2024/06/28. 43: 2025/09/30
51: B60K; B60T; B60W

71: VE COMMERCIAL VEHICLES LTD.
72: AGARWAL, Sachin, SANDOOJA, Amit,
TRIPATHI, Naveen Pratap

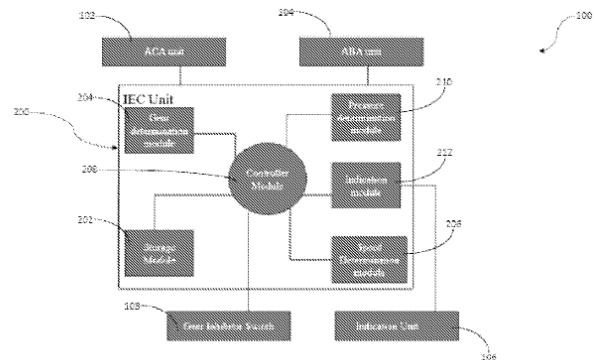
33: IN 31: 202121049591 32: 2021-11-29

54: A DRIVER MISTAKE RESISTANT (DMR) SYSTEM FOR A VEHICLE AND METHODS OF OPERATION THEREOF

00: -

The present invention discloses a driver mistake resistant (DMR) system [100] for a vehicle, the DMR system [100] comprising an auto clutch actuation (ACA) unit [102] capable of operating a clutch of the vehicle, such that the ACA unit [102] disengages the clutch upon activation, while the ACA unit [102] engages the clutch upon deactivation; an auto brake actuation (ABA) unit [104] capable of operating a brake of the vehicle, such that the ABA unit [104] activates the brake upon activation, while the ABA unit [104] deactivates the brake upon deactivation; and an integrated electronic control (IEC) unit [200] adapted to determine at least one engine over-running condition of the vehicle, and send activation control signals to each of the ACA unit [102] and the

ABA unit [104] for activation thereof, upon determination of the at least one engine over-running condition of the vehicle.



21: 2024/05107. 22: 2024/06/28. 43: 2025/10/02
51: A61B

71: Onalabs Inno-Hub

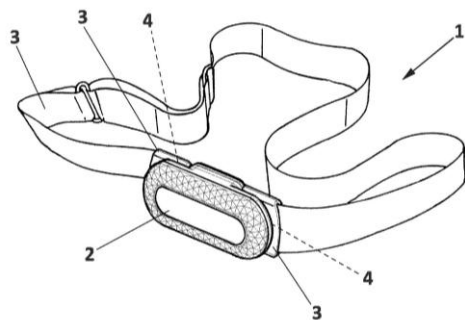
72: RABOST GARCÍA, Genís, MUÑOZ PASCUAL,
Francesc Xavier, AGUILAR TORÁN, Javier,
PUNTER VILLAGRASA, Jaime, COLMENA
RUBIAL, Valeria

33: EP(ES) 31: 21383241.3 32: 2021-12-30

54: INTEGRATION SYSTEM OF SENSING CONSUMABLES FOR WEARABLE DEVICES

00: -

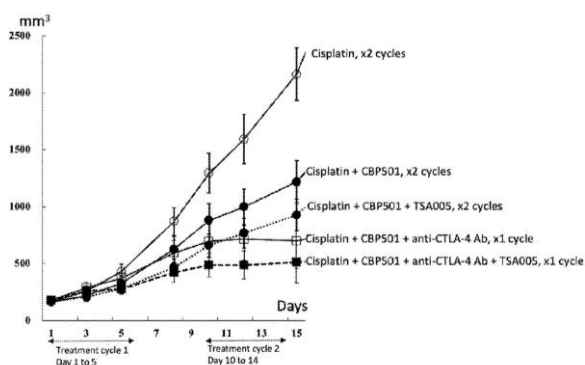
The present invention refers to a wearable device for the continuous monitoring of health condition of patients or sport persons without the need of blood extraction. The device comprises: a housing having at least part of a processing unit enclosed therein, means for attaching the main housing to a part of the user's body, and a consumable component configured to be manually coupled and uncoupled with the main housing in a simple but sealed way. The consumable component comprises: a sweat collection inlet for collecting sweat when the device is worn by the user, at least one sensor for measuring a sweat biomarker. The processing unit is adapted for receiving and processing data provided by the sensor. The invention can advantageously be used in sports medicine and/or sports health sectors for remote effort and/or fatigue assessment.



21: 2024/05108. 22: 2024/06/28. 43: 2025/10/10
 51: A61K; A61P
 71: CanBas Co., Ltd.
 72: KAWABE, Takumi, SATO, Takuji, KIBE, Tatsuya, HIBINO, Toshiyuki, FRIEDMAN, Jonathan M., YAMAMOTO, Sayaka, SUDA, Chikako
 33: US 31: 63/295,462 32: 2021-12-30

54: CONJUGATES BINDING PHOSPHATIDYLSERINE AND TOLL-LIKE RECEPTORS

00: -
 Presented herein, in certain aspects, are conjugates capable of binding phosphatidylserine (PS) and toll-like receptors (TLRs), and their uses for the treatment of selected diseases and disorders, such as cancer.



21: 2024/05110. 22: 2024/06/28. 43: 2025/10/17
 51: C07K; A61K; C12N
 71: UNIVERSITÄT BASEL, CIMEIO THERAPEUTICS AG
 72: URLINGER, STEFANIE, LEPORE, ROSALBA, JEKER, LUKAS, WIEDERKEHR, AMÉLIE, SINOPOLI, ALESSANDRO, CAMUS, ANNA, WELLINGER, LISA, MATTER-MARONE, ROMINA
 33: EP 31: 22207926.1 32: 2022-11-16
 33: EP 31: 22164796.9 32: 2022-03-28
 33: EP 31: 21215028.8 32: 2021-12-16

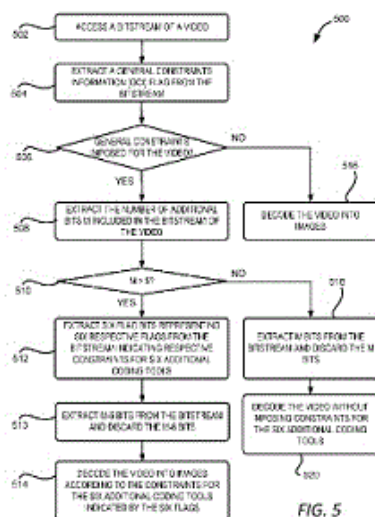
54: DISCERNIBLE CELL SURFACE PROTEIN VARIANTS OF CD117 FOR USE IN CELL THERAPY

00: -
 The present disclosure relates to the use of cells having discernible surface protein with engineered or naturally occurring mutation(s) but functional surface protein for use in therapy. The present invention also relates to the use of cells having discernible CD117 surface protein variants but functional surface protein for use in therapy, in particular adoptive cell therapy.

21: 2024/05163. 22: 2024/07/02. 43: 2025/10/17
 51: H04N
 71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
 72: GAN, JONATHAN, YU, YUE, YU, HAOPING
 33: US 31: 63/266,616 32: 2022-01-10
 33: US 31: 63/266,615 32: 2022-01-10
 33: US 31: 63/266,765 32: 2022-01-13

54: SIGNALING GENERAL CONSTRAINTS INFORMATION FOR VIDEO CODING

00: -
 In some embodiments, a video decoder decodes a video from a bitstream of the video. The video decoder accesses a bitstream of the video and extracts a general constraints information (GCI) flag from the bitstream of the video. The decoder determines that one or more general constraints are imposed for the video based on the GCI flag value and extracts, from the bitstream of the video, a value indicating a quantity of additional bits included in the bitstream of the video. The additional bits include flag bits indicating respective additional coding tools to be constrained for the video. If the value is greater than five, the decoder extracts six flags from the bitstream of the video that indicate respective constraints for six additional coding tools. The decoder decodes the bitstream of the video into images based on the constraints for the six additional coding tools indicated by the six flags.



21: 2024/05233. 22: 2024/07/04. 43: 2025/10/10
51: A23K

71: YARA INTERNATIONAL ASA

72: RUIZ, Isabel, MARTINEZ-LUENGAS, Inés, PIRRO, Laura, VAN BELZEN, Ruud, MOHAN, Anand, IPHARRAGUERRE, Ignacio R.

33: EP 31: 22157277.9 32: 2022-02-17

33: EP 31: 22382539.9 32: 2022-06-03

33: EP 31: 22382836.9 32: 2022-09-09

54: A MIXTURE OF UREA, BIURET AND N-CONTAINING BY-PRODUCTS CREATED DURING BIURET PRODUCTION AS A DIETARY NON-PROTEIN NITROGEN-SOURCE FOR RUMINANTS AND USES THEREOF

00: -

The present disclosure relates to the use of a mixture of urea, biuret and N-containing by-products of the biuret production out of urea, as a NPN-source in a ruminant feed supplement composition (i) to reduce methane emission produced by ruminant animals, (ii) to decrease the acetate to propionate ratio produced by rumen microbes in a ruminant, (iii) to improve the EMPS, (iv) to increase the DM and OM digestibility, and/or (v) to improve the dry matter intake (DMI) of ruminant animal. The present disclosure further relates to a ruminant feed supplement composition comprising urea, biuret and N-containing by-products of the biuret production out of urea, as well as to methods of feeding a ruminant with a feed comprising said ruminant feed supplement composition.

21: 2024/05264. 22: 2024/07/05. 43: 2025/11/12

51: B01D; C02F; C10G

71: SULNOX GROUP PLC

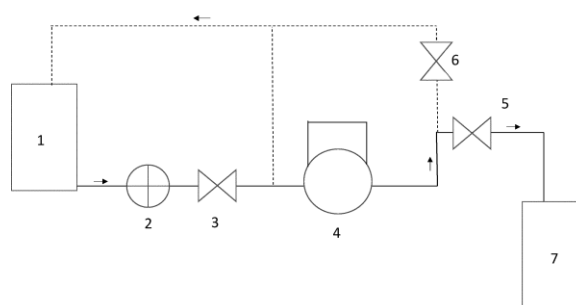
72: REDMAN, James, CLARKE, Dan

33: GB 31: 2118030.2 32: 2021-12-13

54: FUEL OIL RECLAMATION

00: -

There is provided a demulsifier comprising at least one C8 to C18 fatty acid diethanolamide, at least one C12 to C24 fatty acid, at least one C6 to C18 alcohol ethoxylate for use in the recovery of a fuel oil from a fuel oil-in-water emulsion. There is additionally provided a process for the recovery of a fuel oil from a fuel oil-in-water emulsion using the demulsifier.



21: 2024/05271. 22: 2024/07/05. 43: 2025/10/10

51: C08B; C08L; D01F

71: Infinit Fiber Company Oy

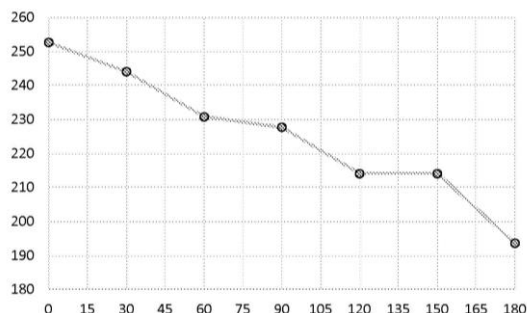
72: MALANIN, Erkki, MÄKELÄ, Jani, NUOPPONEN, Markus, SIREN, Sakari

33: FI 31: 20225009 32: 2022-01-07

54: CELLULOSE CARBAMATE POLYMER

00: -

The invention relates to a cellulose carbamate polymer having an average intrinsic viscosity of 146 to 368 ml/g, a nitrogen content of 0.01 to 3 % by weight, a polydispersity index of 2.0 to 5.0, which has a content of p-terephthalate and/or p-terephthalic acid and/or unhydrolyzed or partly unhydrolyzed polyester of 0.00005 to 0.5 % by weight.



21: 2024/05334. 22: 2024/07/09. 43: 2025/10/23

51: F04D; F04F

71: Cre 8 Technologies Limited

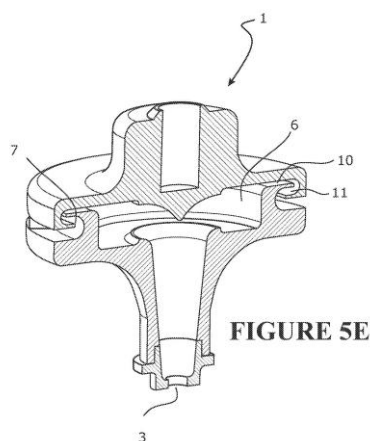
72: BUYS, Alan, WARNER, Clifford Roy

33: NZ 31: 783383 32: 2021-12-10

54: A MULTI-PHASE ROTOR, SYSTEM AND METHOD FOR MAINTAINING A STABLE VAPOUR CAVITY

00: -

A multi-phase rotor comprising a disk body, an inlet to receive a liquid into the rotor, and at least one outlet configured to expel the liquid from the internal rotor cavity. A flow path is provided between the inlet and the at least one outlet by a liquid intake channel and internal rotor cavity. The rotor is configured to be rotatable about an axis of rotation and a continuous stable vapour cavity is formed in the internal rotor cavity as the rotor rotates above a stable cavity threshold rotational speed.



21: 2024/05422. 22: 2024/07/11. 43: 2025/10/03

51: A61B

71: DIAMENTIS INC.

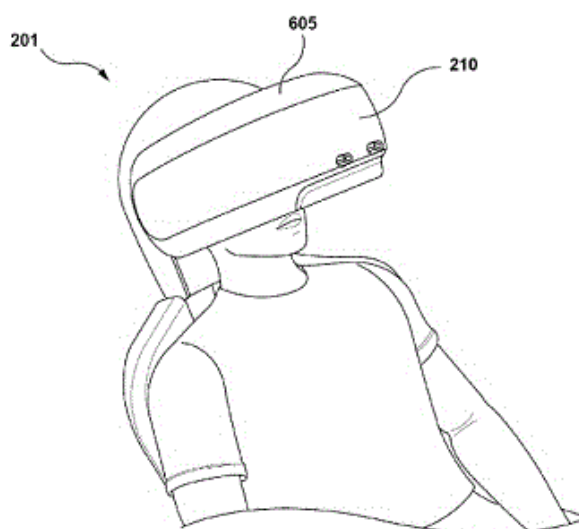
72: HARITON, CLAUDE

33: US 31: 63/308,169 32: 2022-02-09

54: SYSTEMS AND METHODS FOR RETINAL STIMULATION AND/OR COLLECTING RETINAL SIGNAL DATA

00: -

There is disclosed a method and system for retinal stimulation and retinal signal data collection. The system comprises a housing. The housing supports one or more light sources that are configured to expose a retina of an eye of an individual to a flash of light. The housing supports a spectrometer that is configured to record a light spectrum and an intensity of the flash of light. The housing supports a camera configured to capture image data of the eye while exposed to the flash of light.



21: 2024/05451. 22: 2024/07/12. 43: 2025/10/23

51: H04L

71: Huawei Technologies Co., Ltd.

72: WU, Xuming, LUO, Chengxian

33: CN 31: 202210015997.2 32: 2022-01-07

54: ENCODING CONFIGURATION METHOD AND APPARATUS

00: -

Provided in the present application are a coding configuration method and apparatus. The method comprises: an optical network unit receiving first information, wherein the first information is used for indicating a change amount of forward error correction code word information relative to a first forward error correction mother code; and the optical network unit determining the forward error correction code word information according to the first information. According to the technical solution provided in the present application, a change

amount of forward error correction code word information relative to a first forward error correction mother code is indicated, so as to facilitate the realization of the flexible configuration of the forward error correction code word information.

200

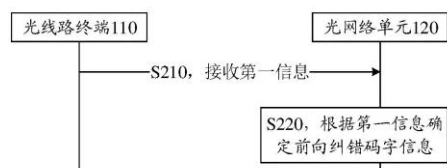


图 2

- 110 Optical line terminal
 120 Optical network unit
 S210 Receive first information
 S220 Determine forward error correction code word information according to the first information

21: 2024/05454. 22: 2024/07/12. 43: 2025/10/23
 51: A01N; A01P

71: Bayer Aktiengesellschaft

72: LORENTZ, Lothar, EBBINGHAUS, Dirk, DECKWER, Roland, NUTTELMANN, Klaus, HAAS, Matthias, KÜHNHOLD, Volker, SMIT, Thomas Alexander Maria, TOSSENS, Herve

33: EP(DE) 31: 21214606.2 32: 2021-12-15

54: USE OF ISOXAZOLINECARBOXAMIDE FOR SPROUT INHIBITION

00: -

The invention relates to the field of food storage, more specifically to the use of methyl(2R*,4R*)-4-[[[(5S)-3-(3,5-difluorophenyl)-5-vinyl-4H-isoxazole-5-carbonyl]amino]tetrahydrofuran-2-carboxy-ate (I) for sprout inhibition in crops, the use of combinations or compositions comprising thereof for sprout inhibition in crops and a method for controlling sprouts on crops.

21: 2024/05491. 22: 2024/07/15. 43: 2025/10/22
 51: A47J

71: Société des Produits Nestlé S.A.

72: VUAGNIAUX, Didier, KOLLEP, Alexandre, ZÜRCHER, Reto Markus, EISENBART, Alex

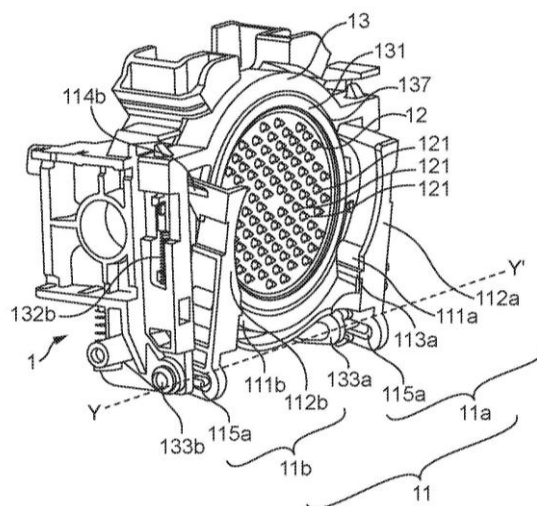
33: EP(CH) 31: 21216616.9 32: 2021-12-21

54: BEVERAGE POD SYSTEM WITH POD CATCHER

00: -

The invention concerns a device for extracting a beverage ingredient by supplying an extraction liquid into in a pod, and comprising :- upstream and downstream pod enclosing parts (1, 2) relatively

translatable between an open position for inserting and/or ejecting the pod (3) and a closed position for forming an extraction chamber (5) enclosing the pod during extraction,- an insertion section (4) for inserting the pod in the device, said insertion section being designed to position the pod with the lid facing the downstream piercing arrangement (12), and- a pod holder (11), said pod holder being attached to said peripheral area (13) of the downstream part and said pod holder being movable between a receiving position and a retracted position, wherein the retaining and positioning elements (11a, 11b) move from the receiving position to the retracted position along diverging directions.



21: 2024/05494. 22: 2024/07/15. 43: 2025/10/23
 51: C21D; F27D

71: John Cockerill SA

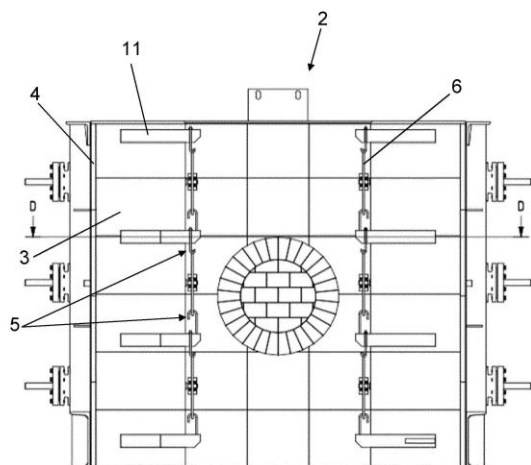
72: PICARD, Paul-Henri

33: EP(BE) 31: 22157736.4 32: 2022-02-21

54: HIGH PERFORMANCE THERMAL INSULATION OF A HEAT TREATMENT FURNACE FOR ANNEALING A CONTINUOUSLY MOVING STRIP

00: -

A metallurgical furnace (1) for performing a thermal treatment of a continuously moving metal strip, preferably under hydrogen protective atmosphere, having : - a hybrid wall lining (2) facing inwardly of the furnace (1), wherein said hybrid wall lining (2) comprises a stack of polycrystalline fibre modules (3) or graphite rigid felt boards (7), and graphite lintels (11) being fixed between or in said modules (3) or boards (7), and - electric heating elements (6) provided inside the furnace (1) along one or more vertical walls and fixed on the side of the hybrid wall lining (2) facing inwardly of the furnace (1), wherein said polycrystalline fibre modules (3) comprise fibres with at least 95% of Al_2O_3 , the thickness of the polycrystalline fibre modules (3) or graphite rigid felt boards (7) being comprised between 200 and 500mm, and wherein the electric heating elements (6) are attached to the graphite lintels (11) thanks to a first anchoring system (5).



21: 2024/05498. 22: 2024/07/15. 43: 2025/10/22

51: B02C; C22B

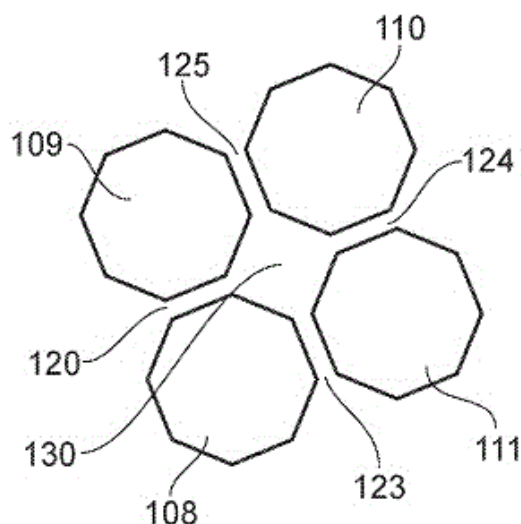
71: EESTECH INC, EESTECH EUROPE HOLDINGS BV

72: LEHMAN, CHAD DANIEL, BAILEY, MURRAY JAMES

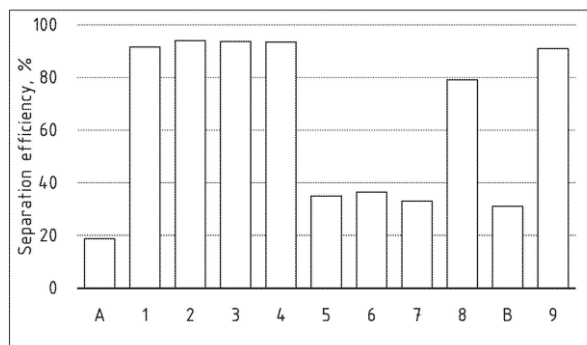
33: GB 31: 2118460.1 32: 2021-12-17

54: METHOD AND SYSTEM FOR BENEFICIATION
00: -

The present invention relates to a method and system for beneficiation. In particular, it relates to the recovery of alloys, metals, and minerals from mining and process waste, for example, the recovery of ferrochrome (FeCr) from less desirable materials. A product produced by a method of beneficiation discloses comprises a chrome concentrate of 95% chrome units.



degrade the polymer into oligomers and at least one monomer; providing a reusable catalyst being capable of degrading the polymer into oligomers and at least one monomer; degrading the polymer in the reaction mixture at reaction conditions using the catalyst to form a monomer; and recovering the catalyst from the reaction mixture; wherein the method further comprises the addition of a base to at least one of the reaction steps. The present invention furthermore relates to the use of a base as a co-catalyst for a catalyst for degrading a polymer in a reaction mixture at reaction conditions.



21: 2024/05636. 22: 2024/07/19. 43: 2025/10/23
51: C07C

71: Honeywell International Inc.

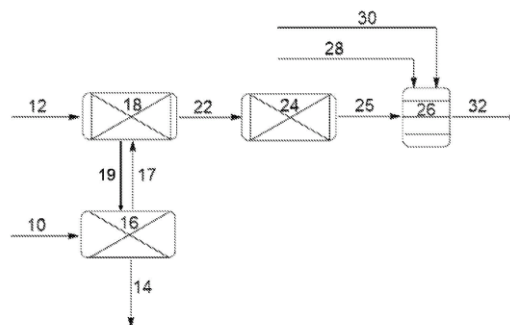
72: CERRI, Gustavo, YAO, Jinhua

33: PCT/CN 31: 2022/073913 32: 2022-01-26

54: PREPARATION OF AN IMPROVED COMPOSITION FROM 1-CHLORO-3,3,3-TRIFLUOROPROPENE (HFO-1233ZD) HIGH BOILING RESIDUE BY-PRODUCT

00: -

High boiling fluorinated by-products obtained from a manufacturing process of 1-chloro-3,3,3-trifluoropropene (HFO-1233zd) not only include components that can be used as a starting material or feedstock in the production of 1,1,1,3,3-pentafluoropropane (HFC-245fa), but also contain impurities that can be detrimental in the HFC-245fa process. A method of providing an improved composition from the high boiling by-products obtained from an HFO-1233zd manufacturing process reduces these impurities. The improved composition can be used as a starting material or feedstock for the production of HFC-245fa.



21: 2024/05721. 22: 2024/07/24. 43: 2025/09/23
51: A61K A61P

71: GREEN CROSS CORPORATION, HANMI PHARM. CO., LTD.

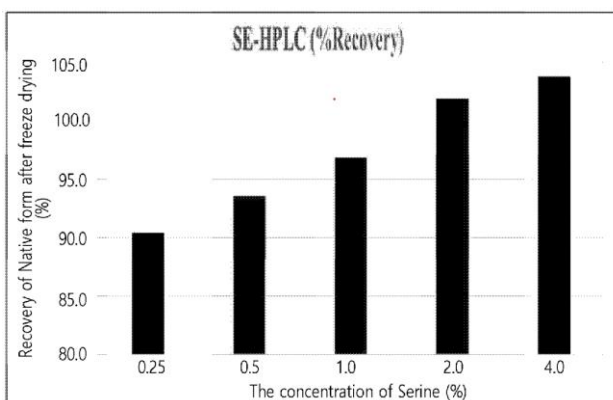
72: KIM, Miroo, YOO, Miri, SON, Jae Woon, PARK, Da-eui, YI, Shin-Ae, KIM, Jin Young, PARK, Jun Sub, JANG, Doo Seo, HONG, Sung Hee, KIM, Sang, Yun

33: KR 31: 10-2022-0032091 32: 2022-03-15

54: LYOPHILIZED FORMULATION COMPRISING A FUSION PROTEIN INCLUDING a-GALACTOSIDASE A

00: -

The present invention relates to a lyophilized formulation including a fusion protein of a-galactosidase A and a preparation method thereof, wherein the lyophilized formulation not only has storage stability by including a composition providing structural stability to a fusion protein of a-galactosidase A, but also has excellent stability although the fusion protein is contained at a high concentration.



21: 2024/05722. 22: 2024/07/24. 43: 2025/09/23
51: A61K A61P

71: GREEN CROSS CORPORATION, HANMI PHARM. CO., LTD.

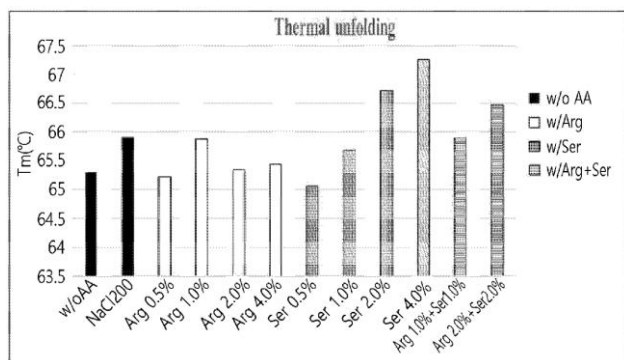
72: KIM, Miroo, YOO, Miri, SON, Jae Woon, PARK, Da-eui, YI, Shin-Ae, KIM, Jin Young, PARK, Jun Sub, JANG, Doo Seo, HONG, Sung Hee, KIM, Sang, Yun

33: KR 31: 10-2022-0032090 32: 2022-03-15

54: LIQUID FORMULATION COMPRISING A FUSION PROTEIN INCLUDING α -GALACTOSIDASE A

00: -

The present invention relates to a liquid formulation including a fusion protein of α -galactosidase A and a preparation method thereof, wherein the liquid formulation not only has storage stability by including a composition providing structural stability to a fusion protein of α -galactosidase A, but also has excellent stability although the fusion protein is contained at a high concentration.



21: 2024/05790. 22: 2024/07/26. 43: 2025/10/14

51: H02J; H02P

71: WEG DRIVES & CONTROLS AUTOMAÇÃO LTDA.

72: COSTA, CLEYSON AMORIM, ROSSA, ADALBERTO JOSÉ, HÜMMELGEN, CARLOS AFONSO, RUTHES, JACQUES ROBERTH, SOARES, ITAMAR FERNANDES, TURQUETI, MARIO DE AZAMBUJA

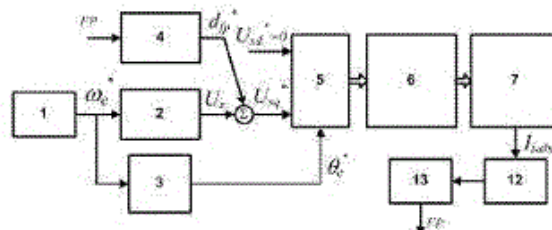
33: US 31: 63/323,826 32: 2022-03-25

54: METHODS AND SYSTEM BASED ON ADVANCED ENERGY SAVING APPLIED TO FREQUENCY INVERTERS OF INDUCTION MOTORS

00: -

The present invention provides a method for continuous adjustment of the power factor in an induction motor driven by a frequency inverter with escalar or vetorial control, by the use of a system for advanced saving energy, comprising a proportional and integral controller (14), at least a selection switch (15) and a tracking module (16). The system tracks the best power factor value for a power factor

reference, according to the needs of the induction motor at different operating points, and acts on the indirect regulation of the voltage applied to the stator windings of the motor induction for scalar control or acts as indirect regulation of magnetic flux for vector control, increasing in both types the efficiency of a motor due to the successively adjustments in the power factor.



21: 2024/05826. 22: 2024/07/29. 43: 2025/11/20

51: A24B; A24F

71: PHILIP MORRIS PRODUCTS S.A.

72: FASCIANI, Chiara, GAMBS, Céline, VOLLMER, Jean-Yves

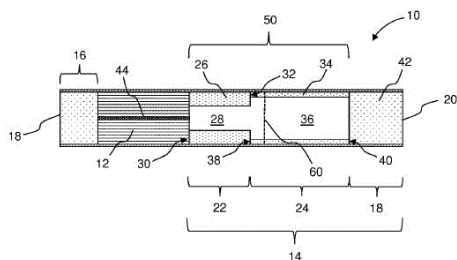
33: EP 31: 21218492.3 32: 2021-12-31

54: AEROSOL-GENERATING ARTICLE COMPRISING A SOLID AEROSOL-GENERATING SUBSTRATE AND A SUSCEPTOR

00: -

An aerosol-generating article (10) for use in an aerosol-generating system, the aerosol-generating article comprising: a solid aerosol-generating substrate comprising nicotine, one or more cellulose based agents, one or more aerosol formers, and one or more carboxylic acids that: (i) do not contain any non-carboxyl alkyl hydroxyl groups and do not contain any ketone groups; or (ii) have a pKa at 25°C in water of less than or equal to 3.5; or (iii) do not contain any non-carboxyl alkyl hydroxyl groups, do not contain any ketone groups, and have a pKa at 25°C in water of less than or equal to 3.5; and a susceptor (44) in direct contact with the solid aerosol-generating substrate, wherein the solid aerosol-generating substrate has a total cellulose based agent content of at least 35 percent by weight, a total aerosol former content of greater than or equal to 45 percent by weight, and a total carboxylic acid content of at least 0.5 percent by weight. An aerosol-generating system comprising: the aerosol-generating article; and an electrically-operated aerosol-generating device comprising an

inductor configured to heat the solid aerosol-generating substrate of the aerosol-generating article.



21: 2024/05828. 22: 2024/07/29. 43: 2025/11/20
51: C07C

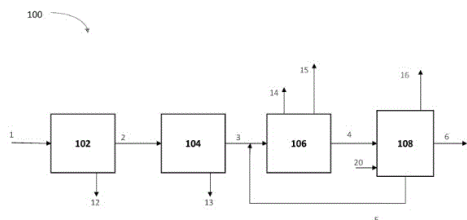
71: LUMMUS TECHNOLOGY LLC
72: ALMERING, Martinus, Johannes, BARIAS, Rosette, VOGT, Todd

33: US 31: 63/308,944 32: 2022-02-10

54: PROCESS FOR THE EFFICIENT PRODUCTION OF BIO HIGH PURITY ISOBUTENE FROM RENEWABLES

00: -

A process and system for converting bio ethanol to high purity isobutene is provided. The system includes a dehydration unit configured to receive a bio ethanol containing stream, convert the bio ethanol to bio ethylene, and produce a bio ethylene containing stream, a dimerization unit configured to receive the bio ethylene stream, dimerize ethylene, and produce an n-butenes containing stream, a skeletal isomerization unit configured to receive the n-butenes containing stream, convert n-butenes to produce a skeletal isomerization stream comprising an isobutene, isobutane, n-butenes, and n-butane, and a catalytic separation unit configured to receive the skeletal isomerization stream, convert olefins and/or isoolefins contained therein to produce a converted skeletal isomerization reaction product, and to fractionate the skeletal isomerization reaction product and produce bio isobutene.



21: 2024/06084. 22: 2024/08/07. 43: 2025/10/03

51: H04W

71: INTERDIGITAL PATENT HOLDINGS, INC.

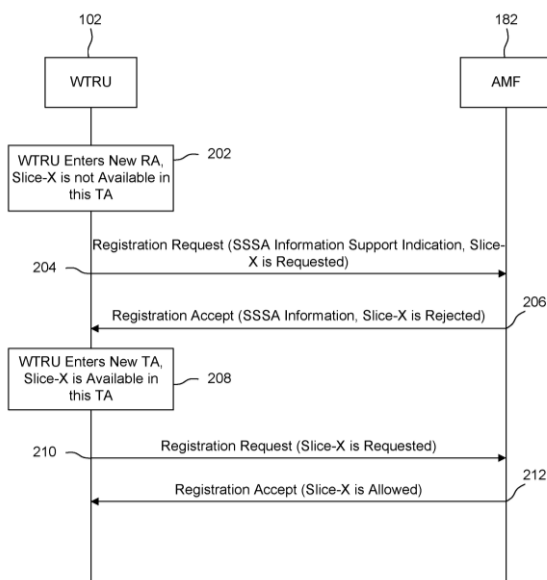
72: STARSINIC, MICHAEL, FERDI, SAMIR, AHMAD, SAAD, OLVERA-HERNANDEZ, ULISES, SETHI, ANUJ

33: US 31: 63/303,574 32: 2022-01-27

54: METHODS, ARCHITECTURES, APPARATUSES AND SYSTEMS FOR SUPPORTING NETWORK SLICING SERVING AREA

00: -

Procedures, methods, architectures, apparatuses, systems, devices, and computer program products for a wireless transmit/receive unit (WTRU) to determine slice availability in tracking areas (TAs) of a registration area (RA). In a representative example, the WTRU may use determined slice availability to detect changes in slice availability among different TAs. For example, the WTRU may move from a first TA of a RA where access to a first slice is unavailable to a second TA of the RA where access to the first slice is available. The WTRU may receive information during a registration procedure in the first TA that indicates the first slice is available in less than all TAs of the RA. Upon moving to the second TA, the WTRU may (e.g., again) perform a registration procedure in the second TA of the RA in order to access the first slice in the second TA.



21: 2024/06113. 22: 2024/08/08. 43: 2025/10/31

51: B60M; B60L

71: CATERPILLAR INC.

72: WILLEY, CHRISTOPHER A, RUTH, ERIC J,
CARTER, ZACHARY R, BAILEY, BRADLEY S

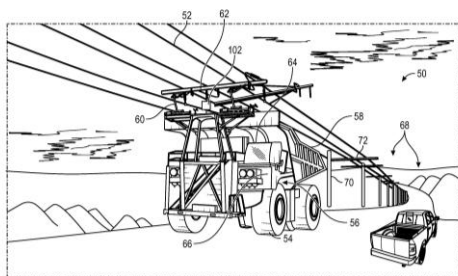
33: US 31: 17/667,614 32: 2022-02-09

54: ELECTRICAL CONTACT WEAR MONITORING SYSTEM

00: -

A system for monitoring electrical contacts for an overhead trolley line may include a wear sensor arranged such that an electrical contact on a vehicle or work machine for contacting the overhead trolley line is continually or periodically in its line of sight.

The wear sensor may be configured to capture spatial data defining the surface profile of the electrical contact. The system may also include a data processing module configured to receive the spatial data and identify a defect in the electrical contact based on the spatial data.



21: 2024/06160. 22: 2024/08/12. 43: 2025/09/29

51: C22C B22D C22F

71: CONEX IPR LIMITED

72: SZKLAREK, Mateusz, WOLINSKI, Slawomir,
SALEHI BAKHTIARI, Manouchehr

33: GB 31: 2200575.5 32: 2022-01-18

54: COMPONENTS FOR DRINKING WATER PIPES, AND METHOD FOR MANUFACTURING SAME

00: -

A Cu-Zn-Si alloy having low lead content is described, along with components such as plumbing fittings suitable for drinking water pipes, and methods of manufacturing same are described.

21: 2024/06223. 22: 2024/08/14. 43: 2025/10/14

51: E02F; B22D

71: CATERPILLAR INC.

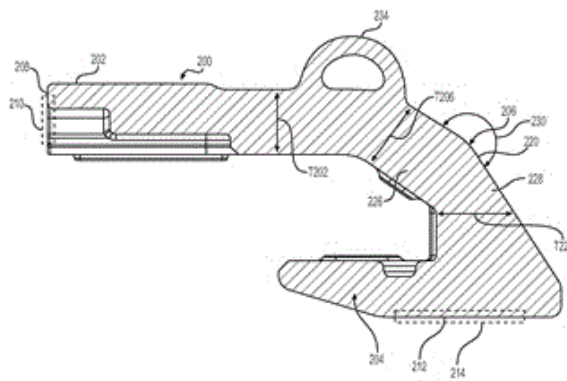
72: MCCAFFREY, BRANDON HAMMIG

33: US 31: 17/671,867 32: 2022-02-15

54: GEOMETRIC PROFILE FOR IMPROVED MANUFACTURABILITY OF A GROUND ENGAGING TOOL

00: -

A wear member (200) includes a first leg (202), a second leg (204), and a throat portion (206) connecting the first leg (202) to the second leg (204). The first leg (202) defines a first leg thickness (T202), and the throat portion (206) defines a throat portion thickness (T206) disposed adjacent to the first leg thickness (T202). A ratio of the throat portion thickness (T206) to the first leg thickness (T202) ranges from 1.1 to 1.2.



21: 2024/06288. 22: 2024/08/15. 43: 2025/10/01

51: C08G; C08J; C08L

71: ISOCARE SOLUÇÕES AMBIENTAIS S/A,
HDGL LLC.

72: COVALSKI PORSCH, CAROLINA, CUEVAS
PERLANZA, LAURÊNCIO

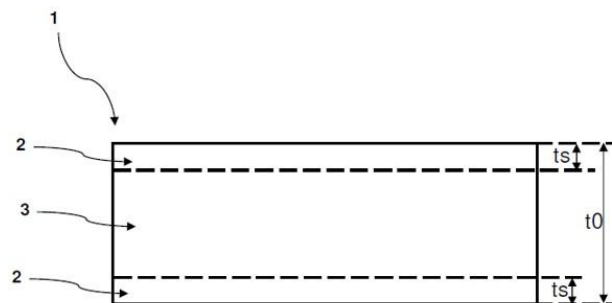
33: BR 31: 1020220009740 32: 2022-01-18

33: BR 31: 1020230006396 32: 2023-01-12

54: LIQUID BASE PRODUCT, LIQUID FORMULATED PRODUCT, LIQUID FINAL PRODUCT, BIODEGRADABLE SOLID PRODUCT AND BIODEGRADABLE PRODUCT FABRICATION PROCESS

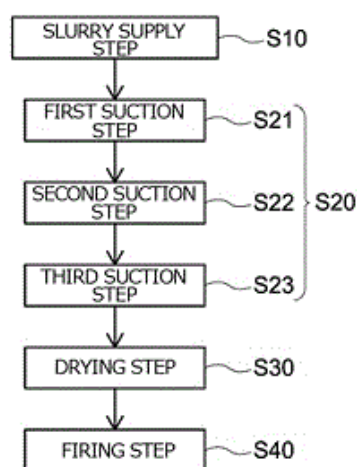
00: -

This invention refers to a liquid base product that comprises vegetable oil, and/or blond glycerin, and/or animal fat and nitrilotriethanol; a liquid formulated product that comprises the base product and organic surfactants, the catalysts, reagents, and/or water; a liquid final product that comprises the formulated product and at least an isocyanate. This invention also refers to a biodegradable solid product formed from a liquid final product. This invention also refers to a biodegradable product fabrication process.



00: -
Steel sheet having a chemical composition comprising in wt% C : 0.2 - 0.4%, Mn : 0.8 - 2.0%, Si : 0.1 - 0.5 %, Al : 0.01 - 0.1 %, Ti: 0.01 - 0.1 %, B: 0.0005 - 0.005 %, $P \leq 0.040$ %, $Ca \leq 0.01\%$, $S \leq 0.006$ %, $N \leq 0.01$ %, said steel sheet comprising from the bulk to the surface of the coated steel sheet a bulk and a skin layer occupying the outermost 10% of the thickness on either side of the bulk, such bulk being topped by a skin layer occupying the outermost 10% of the thickness on either side of the bulk, the density of TiN / Ti(C,N) inclusions in said skin being smaller than 240 particles / mm² and the clustering index of MnS inclusions in said skin being lower than 110 $\mu\text{m}/\text{mm}^2$. This allows to manufacture hot pressed parts having a tensile strength equal to or greater than 1300MPa and a bending angle normalized to 1.5mm and measured in the transverse direction strictly greater than 48°.

The present disclosure provides a method for producing an exhaust gas purification catalyst in which the standby time of a shower nozzle is reduced. The production method disclosed herein includes: a slurry supply step in which a catalyst metal-containing slurry is supplied from a shower nozzle to one end of one honeycomb substrate; a first suction step in which pressurization or decompression is performed toward the other end of the honeycomb substrate using a first suction device in the one honeycomb substrate to which the slurry is supplied and the supplied slurry is pulled into the interior of the honeycomb substrate; and a second suction step in which pressurization or decompression is performed again toward the other end of the honeycomb substrate using a second suction device in the one honeycomb substrate after the first suction step and the supplied slurry is pulled into the interior of the honeycomb substrate. In addition, the slurry supply step and the plurality of suction steps are performed in parallel on the same production line.



21: 2024/06644. 22: 2024/08/28. 43: 2025/11/20
51: B65D

71: BERICAP HOLDING GMBH

72: KRAUTKRÄMER, Alexander

33: DE 31: 10 2022 110 068.5 32: 2022-04-26

33: DE 31: 10 2022 110 069.3 32: 2022-04-26

54: CONNECTED CLOSURE DEVICE COMPRISING A STABILISED CONNECTION ELEMENT

00: -

The present invention relates to a closure device for a container, in particular for a cardboard packaging, the closure device comprising a base element, the base element having a pouring channel that extends along a closure axis and has an inlet opening and a pouring opening, the closure device comprising a closure cap, the closure cap comprising a cap cover and a cap shell that circumferentially adjoins the cap cover and extends axially, the closure cap and the base element being designed such that the closure cap closes the pouring opening when the closure cap is closed and exposes the pouring opening when the closure cap is open, the closure device comprising an anchor ring and a connection element, the connection element connecting the anchor ring to the closure cap in a tension-proof manner, the anchor ring being engaged with the base element both when the closure cap is closed and when the closure cap is open such that, when the closure cap is open, the closure cap is also connected to the base element by means of the connection element and the anchor ring.

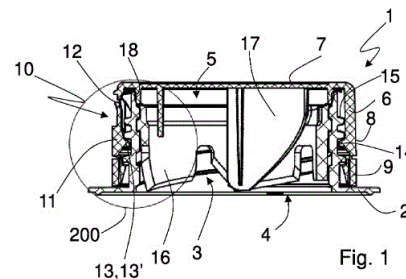


Fig. 1

21: 2024/06686. 22: 2024/08/29. 43: 2025/11/20

51: B29C; B29K; B29L; B65D

71: TOP CAP HOLDING GMBH

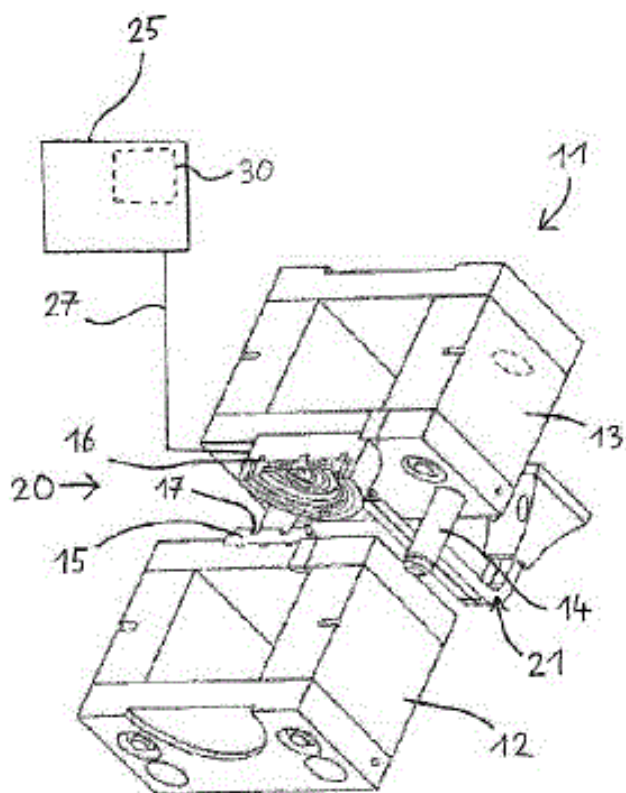
72: PIECH, Gregor Anton

33: DE 31: 10 2022 106 622.3 32: 2022-03-22

54: DEVICE AND METHOD FOR PRODUCING A CAN LID

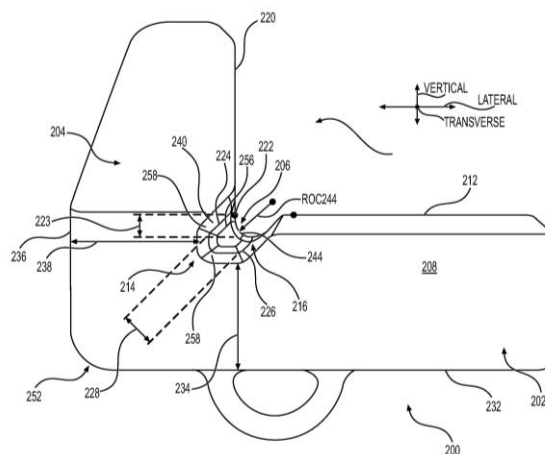
00: -

The invention relates to a device for producing a can lid (19), which comprises a can lid part (64) made of sheet metal and at least one plastic part (18, 67) joined to the can lid part (64), the device comprises two press tools (15, 16), which can be brought together and form a press (20) for pressing the can lid part (64) and the plastic part (18, 67) against one another, and an inductor (21) for supplying an alternating electromagnetic field in the region of the press (20) in order to inductively heat the can lid part (64) and thus join it to the pressed-on plastic part (18, 67). A fluid channel (29) is formed in at least one of the press tools (15, 16), wherein a temperature-control device (25) is provided which is designed to convey a temperature-control fluid through the fluid channel (29) in order to stabilise the temperature of the press (20).



21: 2024/06689. 22: 2024/08/29. 43: 2025/10/14
 51: E02F
 71: CATERPILLAR INC.
 72: MCCAFFREY, BRANDON H, KARUNAKARAN, EZHIL V
 33: US 31: 17/690,341 32: 2022-03-09
54: HEEL SHROUD HAVING STRESS CONCENTRATION REDUCTION GEOMETRY AND ENHANCED DURABILITY FOR USE IN CONSTRUCTION MACHINES

00: -
 A heel shroud (200, 300) includes a bottom leg (202, 302), and a side leg (204, 304) extending orthogonally from the bottom leg (202, 302), forming an interior corner (206, 306) with the bottom leg (202, 302). The heel shroud (200, 300) defines a first lateral surface (208, 308), a second lateral surface (210, 310), and the bottom leg (202, 302) includes a curved interior surface (212, 312) extending from the first lateral surface (208, 308) to the second lateral surface (210, 310) at least partially forming the interior corner (206, 306). The first lateral surface (208, 308) defines a first wear indicator (214) or a stress reduction geometry (216) that is disposed at the interior corner (206, 306).



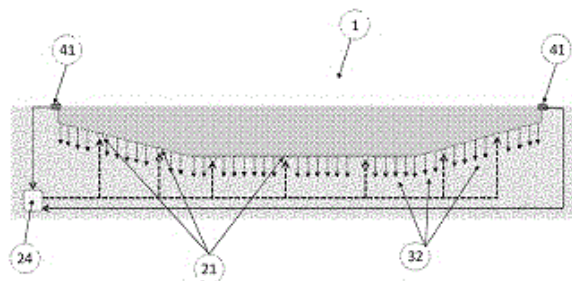
21: 2024/06717. 22: 2024/08/30. 43: 2025/11/28
 51: A01G; A01H; C12N; C12R
 71: SYLVAN INC., SYLVAN AMERICA, INC.
 72: SCHULTZ, Michelle, KESSLER, Michael, LOFTUS, Mark, AMINI, Aniça, DELBECQUE, Sylvie, SCHULTZ, Wes, WACH, Mark
 33: US 31: 63/322,793 32: 2022-03-23
54: HYBRID MUSHROOM STRAIN B19414 AND METHODS AND USES THEREFOR

00: -
 A hybrid mushroom culture of *Agaricus bisporus*, designated as strain B19414, includes a representative culture of the strain, which has been deposited under NRRL Accession No. 68095. A method of producing a hybrid mushroom culture of *Agaricus bisporus* comprising: mating a homokaryotic line designated B12998-s181, a culture of which has been deposited under NRRL Accession No. 68094, with a homokaryotic line designated P2-s203, a culture of which has been deposited under NRRL Accession No. 68093. Additionally, Essentially Derived Varieties, mushrooms, parts of the culture, products incorporating the culture and uses of the cultures are provided.

21: 2024/06757. 22: 2024/09/02. 43: 2025/10/01
 51: E04H; C02F
 71: CRYSTAL LAGOONS TECHNOLOGIES, INC.
 72: FISCHMANN, FERNANDO
 33: US 31: 63/306,826 32: 2022-02-04
 33: US 31: 17/871,830 32: 2022-07-22
54: LOW-COST STRUCTURE FOR PURIFYING AND CONTAINING HIGH CLARITY WATER THAT IS USED FOR DIRECT CONTACT RECREATIONAL PURPOSES

00: -

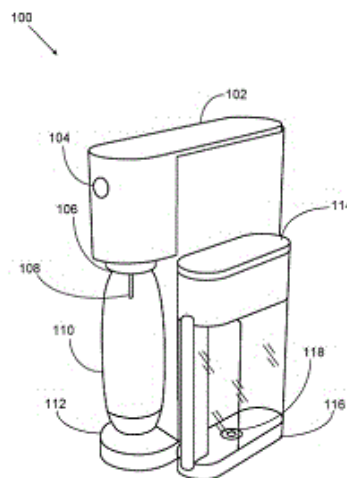
A low-cost structure is for the containment of high clarity water. The structure allows for the purification of water that is used for direct contact recreational purposes. The structure preferably includes a reduced centralized filtration system that has fewer inlets, outlets, skimmers, and filtration water volume rates compared to a conventional swimming pool; a permanently operative water micro-renewal system where micro-leakage points are distributed throughout the inner surface of the structure, a source of high-quality make-up water; a high-frequency skimmer system; and a low-frequency skimmer system that allows for the removal of water from the upper portion of the water volume during rain events or increased renewal events, thereby improving the efficiency of the high-frequency skimmer system.



21: 2024/06826. 22: 2024/09/04. 43: 2025/10/01
51: B01F; A23L; B01D; B67D; C02F
71: SODASTREAM INDUSTRIES LTD.
72: WAISMAN, ALON, GUR, VLADISLAV, COHEN, AVI, RING, ALLAN
33: US 31: 17/693,410 32: 2022-03-13
54: CARBONATION MACHINE WITH INTEGRATED WATER TREATMENT AND DETACHABLE WATER RESERVOIR
00: -

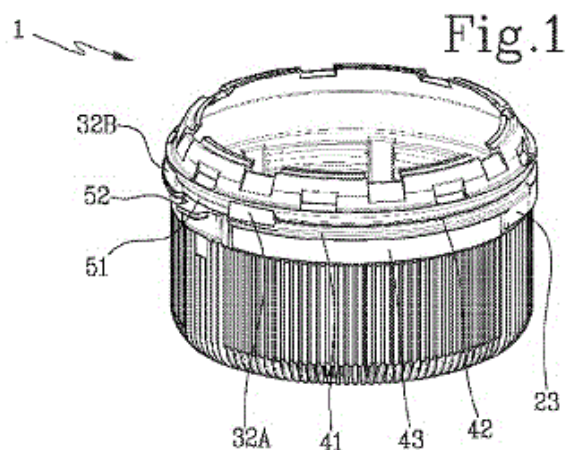
A carbonation machine with integrated water treatment. The carbonation machine may include a carbonation system for carbonating water in a bottle attached to a carbonation head of the system, a detachable water reservoir, configured to be mounted on a base with an outlet port to allow outward flow of water from the reservoir, piping connecting the outlet port of the water reservoir to transfer water from the detachable reservoir and to pour the water into the bottle, a pump for pumping water out of the water reservoir and transfer the pumped water via the piping, a controller configured to control the pump, and one or more water

treatment components fluidically connected to the piping to apply water treatment to water flowing through the piping.



21: 2024/06851. 22: 2024/09/05. 43: 2025/10/01
51: B65D
71: SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA
72: ZUFFA, ZENO
33: IT 31: 102022000006701 32: 2022-04-05
54: CAP FOR A CONTAINER
00: -

A cap (1) for a container comprising: a body (2), configured to be coupled and uncoupled relative to the neck of the container and including a side wall (21) and a transverse wall (22); a tamper evident ring (3), configured to engage a locking member on the neck of the container; a joining zone (4), where the tamper evident ring (3) is joined to the body (2), wherein the joining zone (4) includes a tether (41), connected to the tamper evident ring (3) in a first connecting zone (32), and to the body (2) in a second connecting zone (23), a first narrow thickness zone (42) configured to connect a first flank (412) of the tether (41) to the tamper evident ring (3), and a second narrow thickness zone (43) to connect a second flank (413) of the tether (41) to the side wall (21) of the body (2), wherein the first narrow thickness zone (42) and the second narrow thickness zone (43) are configured to be torn in response to a displacement of the body (2) away from the tamper evident ring (3).



21: 2024/06858. 22: 2024/09/05. 43: 2025/10/01
51: F42B; F42D

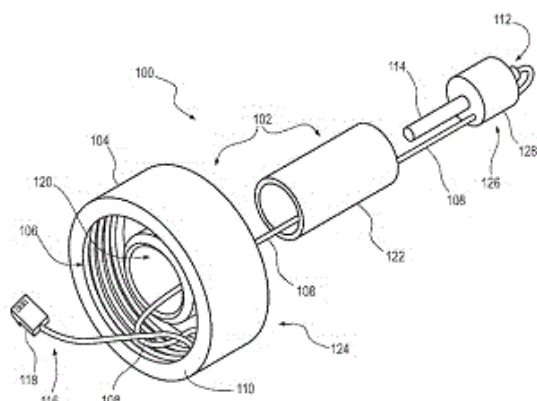
71: DYNO NOBEL ASIA PACIFIC PTY LIMITED
72: TERRY, PAUL

33: AU 31: 2022900487 32: 2022-03-01

54: PRIMER DELIVERY SYSTEMS AND METHODS

00: -

The present disclosure describes systems and methods for delivering a primer to an operative depth for initiating an explosion of an explosive material in a blasthole. Systems described herein can include a cap structure providing access into the hole and a separable detonator subassembly that can be deployed to convey a detonator to a priming position. Methods of priming a blasthole can include placing such a system on a blasthole collar and deploying the detonator subassembly in conjunction with loading the blasthole with explosive material.



21: 2024/06864. 22: 2024/09/05. 43: 2025/10/08
51: C22B

71: EESAVYASA TECHNOLOGIES PVT LTD

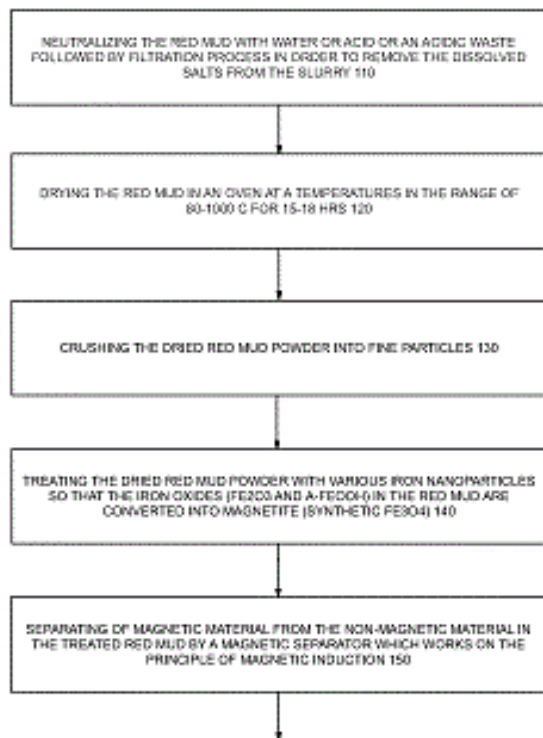
72: MAMIDYALA, Sreeman, Kumar, DAMULURI, Chakravarthy, KUNAM, Sasidhar, Reddy, BANDA, Ravisankar

33: IN 31: 202241006268 32: 2022-02-05

54: A METHOD AND SYSTEM FOR EXTRACTION OF IRON VALUES FROM RED MUD

00: -

The present invention relates to novel processes for recovering iron values from the bauxite residue. It comprises drying the red mud either directly or after neutralizing or after water washing. The bauxite residue was treated with iron nanoparticles of varying the size from 100- 1000 nm, heating in muffle furnace or inductive furnace at the temperature 700-800 oC. The invention resulted in increasing in magnetic properties of a selected species by coating of the iron particles on their surfaces. The iron oxides Fe₂O₃ and α-FeOOH (goethite) present in the bauxite residue was converted to Fe₃O₄ (magnetite) after the treatment using inductive heating. Hence, magnetic susceptibility of the particles enhances and can be separated by magnetic separator and ultimately separated from the nonmagnetic material. Furthermore, the isolated iron enriched material was used for various applications such as reduction of arsenic, chemical oxygen demand (COD) in wastewater.



21: 2024/06961. 22: 2024/09/10. 43: 2025/10/01

51: A61K; A61P

71: METRIOPHARM AG

72: BRYSCH, WOLFGANG, SCHUMANN, SARA, BREMBECK, FELIX, LUDESCHER, BEATE, VON WEGERER, JÖRG

33: EP 31: 22000080.6 32: 2022-03-25

54: COMBINATION OF 5-AMINO-2,3-DIHYDRO-1,4-PHTHALAZINEDIONE AND A FUMARIC ACID ESTER

00: -

The present application relates to a combination of 5-amino-2,3-dihydro-1,4-phthalazinedione or one of its pharmaceutically acceptable salts and at least one fumaric acid ester or a pharmaceutically acceptable salt thereof. In particular, the invention relates to the use of 5-amino-2,3-dihydro-1,4-phthalazinedione sodium salt in said pharmaceutical combination. Pharmaceutical compositions and advantageous formulation techniques are disclosed.

21: 2024/06963. 22: 2024/09/10. 43: 2025/10/01

51: C07F

71: ADVANSIX RESINS & CHEMICALS LLC

72: ASIRVATHAM, EDWARD, ANANTHAPADMANABHAN, KAVSSERY, KUMARI,

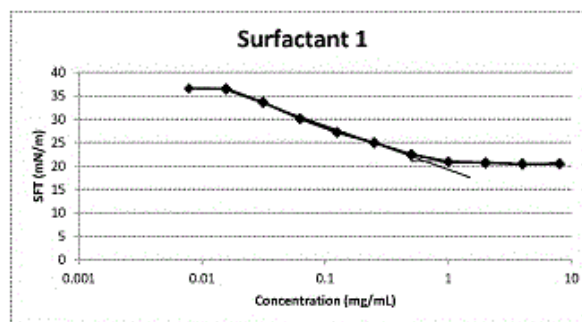
HARSHITA, MITTAPALLI, RAMANA, MIRZAMANI, MARZIEH

33: US 31: 63/313,115 32: 2022-02-23

54: SILOXANE DERIVATIVES OF AMINO ACIDS HAVING SURFACE-ACTIVE PROPERTIES

00: -

The present disclosure provides siloxane derivatives of amino acids that have surface-active properties. The amino acid can be naturally-occurring or synthetic, or they may be obtained via a ring-opening reaction of a lactam, such as caprolactam. The amino acid may be functionalized with a siloxane group to form a compound that is surface-active and has surfactant characteristics. The compounds have low critical micelle concentrations (CMC) as well as the ability to lower the surface tension of a liquid.



21: 2024/06985. 22: 2024/09/11. 43: 2025/10/08

51: A61B

71: SHANGHAI LIGATECH BIOSCIENCE CO., LTD

72: GE, Li, ZHANG, Fengyu, HUO, Hongya, WANG, Yuanqiang, LAI, Weiguo

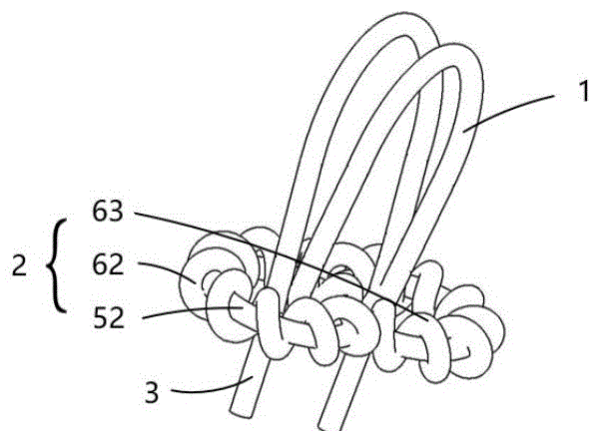
33: CN 31: 202210260254.1 32: 2022-03-16

54: FASTENING INSTRUMENT, MANUFACTURING METHOD THEREFOR, AND MEDICAL FASTENING DEVICE

00: -

The present invention provides a fastening instrument, which is formed by woven string-like materials and comprises: a ring portion, which comprises a thread ring for a target tissue to pass through; a knot portion, which is connected to the ring portion, the knot portion being used for abutting against a bone; and an adjusting portion, which is connected to the ring portion to adjust the size of the thread ring. During use, the target tissue is fastened to the bone, and the knot portion formed by the woven string-like materials can produce certain deformation along with the surface shape of the

bone when in contact with the bone, so as to reduce the gap, increase the contact area and hence improve the fastening effect between the tissue and the bone. The present invention further provides a manufacturing method for the fastening instrument, and a medical fastening device.

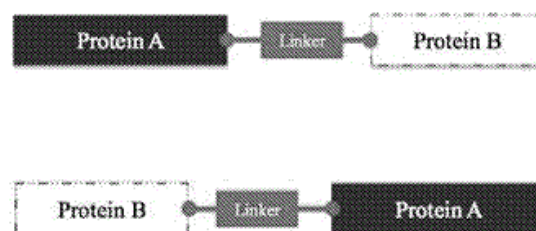


21: 2024/06986. 22: 2024/09/11. 43: 2025/10/08
51: C07K
71: PHYX44 LABS PRIVATE LIMITED
72: SETHIA, Piyush, BAKARAJU, Bharath, UPPADA, Vanita, VARAVADEKAR, Jayesh Suman, PATEL, Jyotsana, CHAVAN, Sambhaji, Balkrushna
33: SG 31: 10202202395T 32: 2022-03-09

54: A NOVEL PROTEIN COMPOSITION AND THEIR USE IN FORMULATING DAIRY PRODUCTS

00: -

This invention discloses a milk protein containing composition comprising: at least one milk protein; at least a first protein; at least a second protein; and at least a linker comprising an amino acid sequence coded by nucleotide sequence which is at least 80% similar to sequences selected from the group consisting of SEQ ID NO: 14, SEQ ID NO: 15, SEQ ID NO: 16, SEQ ID NO: 17, SEQ ID NO: 18, SEQ ID NO: 19, SEQ ID NO: 20, and SEQ ID NO: 21



21: 2024/07021. 22: 2024/09/12. 43: 2025/10/01
51: H01Q

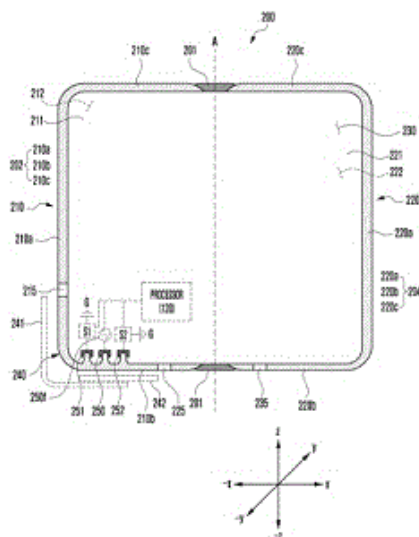
71: SAMSUNG ELECTRONICS CO., LTD.
72: AN, CHANKYU, PARK, SUNGKOO, YUN, HIMCHAN, CHOI, NAKCHUNG, HWANG, SOONHO, CHUN, JAEBOG
33: KR 31: 10-2020-0166365 32: 2020-12-02

54: ELECTRONIC DEVICE COMPRISING ANTENNA

00: -

Various embodiments of the present invention relate to a foldable electronic device comprising an antenna, the foldable electronic device comprising: a processor; a hinge module; a first housing and second housing each having at least a portion thereof coupled to either side of the hinge module and forming a unfolded state or folded state around the hinge module; and a flexible display disposed in a space formed by the first housing and second housing. The first housing comprises a first side surface member forming at least a portion of the exterior of the foldable electronic device, the first side surface member comprising: a first side surface disposed in parallel to a folding axis of the hinge module; a second side surface extending from one end of the first side surface in the direction perpendicular to the folding axis; and a third side surface extending from the other end of the first side surface in the direction perpendicular to the folding axis. The second housing comprises a second side surface member forming at least a portion of the exterior of the foldable electronic device, the second side surface member comprising: a fourth side surface disposed in parallel to the folding axis; a fifth side surface extending from one end of the fourth side surface in the direction perpendicular to the folding axis; and a sixth side surface extending from the other end of the fourth side surface in the direction perpendicular to the folding axis. The first side surface has a first segmentation unit formed

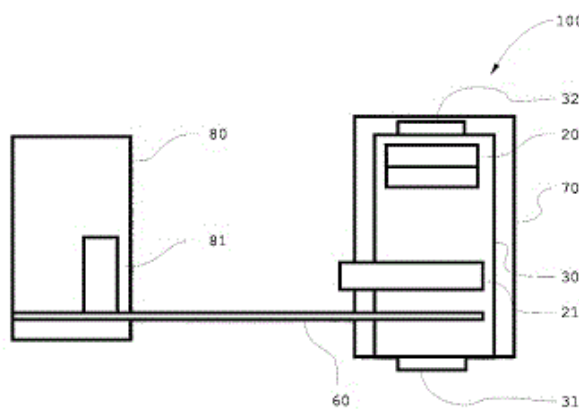
thereon, the second side surface has a second segmentation unit formed thereon, and the fifth side surface has a third segmentation unit formed thereon, wherein the second segmentation unit and third segmentation unit are disposed so as to overlap when the first housing and second housing are in the folded state, and a portion of the first side surface separated through the first segmentation unit, and a portion of the second side surface separated through the second segmentation unit are electrically connected to the processor so as to be operated by an antenna. The antenna may comprise: a power feed unit connected to a power feed point positioned on the second side surface; a first matching circuit connected to a first point positioned between the power feed point and the first segmentation unit; and a second matching circuit connected to a second point positioned between the power feed point and the second segmentation unit. Other various embodiments are possible.



21: 2024/07067. 22: 2024/09/13. 43: 2025/10/31
51: B29C
71: ALPLA WERKE ALWIN LEHNER GMBH & CO. KG
72: BRAUN, JOACHIM, PREISS, CHRISTIAN
33: CH 31: CH000310/2022 32: 2022-03-23
54: EXTRUSION BLOW MOLDING MACHINE
00: -

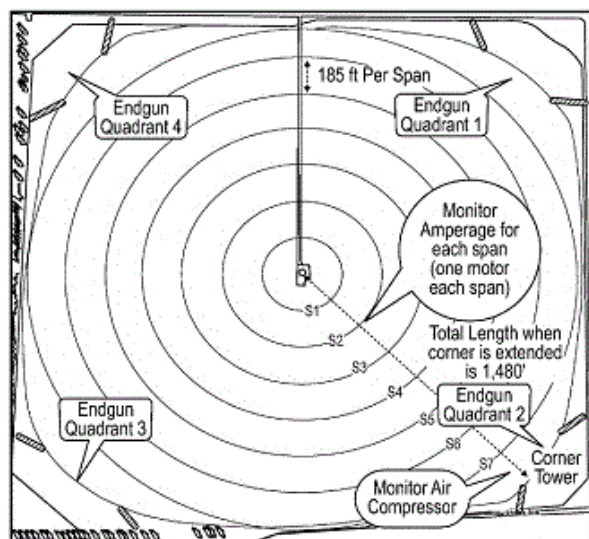
The invention relates to an extrusion blow molding machine (100) comprising an extruder and a blow molding tool (20). The blow molding tool (20) is

separated from the environment by an enclosure (30).



21: 2024/07068. 22: 2024/09/13. 43: 2025/10/01
51: A01G
71: HEARTLAND AG TECH, INC.
72: SANDERS, RUSSELL, PAVELSKI, JEREMIE, BUCHBERGER, ROBERT
33: US 31: 63/325,798 32: 2022-03-31
54: IRRIGATION SYSTEM INCLUDING ELECTRONIC INDEPENDENT OBSERVER INTEGRATION WITH FERTIGATION SYSTEM
00: -

A monitoring system for an irrigation system that includes a nozzle and a product source that supports a product for mixing with water from a water source to which the irrigation system is operably coupled. The monitoring system includes: a sensor (102, 1120) configured to generate a first electrical signal indicative of a travel speed and/or a travel direction of the irrigation system; a fluid pressure sensor (1170) configured to generate a second electrical signal indicative of a flow rate, a processor (220), a memory (230), and a variable speed pump (10) or a valve (2800, 902). The memory (230) includes instructions, which when executed by the processor (220) cause the monitoring system to: receive the first and second generated electrical signals, determine an applied rate of the irrigation fluid over a predetermined irrigation area based on the first and second electrical signals, and adjust the flow rate of the irrigation fluid through the at least one nozzle.



21: 2024/07069. 22: 2024/09/13. 43: 2025/10/01
51: C04B

71: POPLAC DEVELOPMENT S.L.
72: BLASCO LAHIGUERA, ASUNCIÓN ANA
33: EP 31: 22187705.3 32: 2022-07-29
33: ES 31: P202230262 32: 2022-03-23

54: BUILDING MATERIAL

00: -

The present invention relates to a building material comprising crushed dead algae or aquatic plants and a binder of plant origin, characterized in that it comprises an aqueous solution of an organic acid. The use of an aqueous solution of an organic acid improves the mechanical properties of the material and, on the other hand, acts as an antimicrobial agent. The building material of the present invention can be used to manufacture prefabricated parts for modular buildings or as biocement to seal joints and fixative.

21: 2024/07071. 22: 2024/09/13. 43: 2025/10/01
51: A01H; C07K; C12N

71: ENZA ZADEN BEHEER B.V.
72: YKEMA, MARIEKE, VAN ZWOL, HILLE-JAN, DE LA FUENTE VAN BENTEM, SERGIO, DE BOER, GEERT JOHANNES

54: TOMATO PLANT RESISTANT TO TOMATO SPOTTED WILT VIRUS

00: -

The present invention relates to a plant of the *S. lycopersicum* species that is resistant to Tospovirus, wherein the plant comprises a TSWV resistance gene. More specifically the invention relates to tomato plants (*S. lycopersicum*) that are resistant to

Tomato Spotted Wilt Virus (TSWV). The present invention further relates to a resistance gene or genomic sequence providing resistance to Tospovirus. Furthermore, the present invention relates to methods for providing a *S. lycopersicum* plant that is resistant to Tospovirus.

21: 2024/07080. 22: 2024/09/13. 43: 2025/10/01
51: C03B

71: OWENS-BROCKWAY GLASS CONTAINER INC.

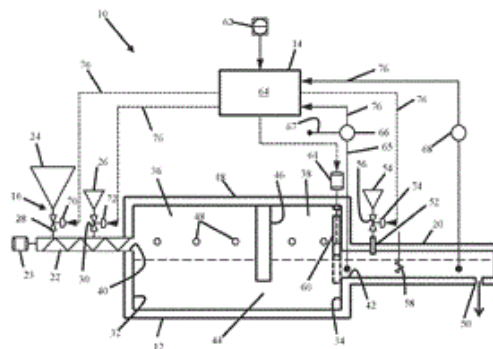
72: TOWNSEND, CASEY, CLICK, CAROL

33: US 31: 17/693,524 32: 2022-03-14

54: METHOD AND SYSTEM FOR MANUFACTURING GLASS

00: -

A process for transitioning molten glass in a glass furnace (12) from one color to another color while minimizing the production of out-of-color specification transition glass. During the transition, a compensating agent is introduced into the molten glass to adjust the color of the molten glass being discharged from the furnace so that the discharged molten glass meets a target color specification, which effectively results in acceleration of the furnace color change compared to other conventional methods.



21: 2024/07098. 22: 2024/09/16. 43: 2025/10/01
51: A01N

71: INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, UNIVERSITE DE BOURGOGNE

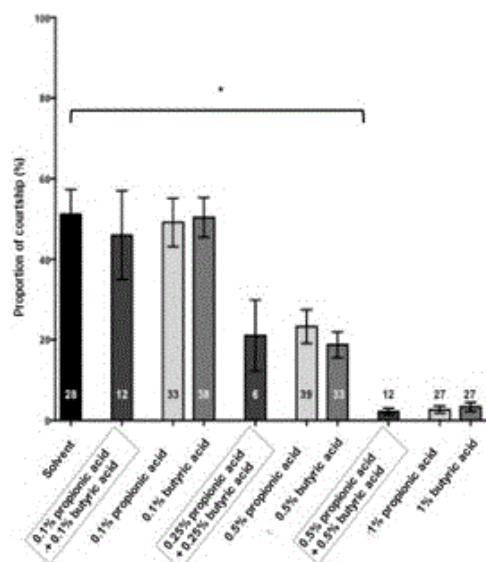
72: BERTHELOT-GROSJEAN, MARTINE, GROSJEAN, YAËL, MANIERE, GÉRARD

33: EP 31: 19306102.5 32: 2019-09-13

54: REPELLENT COMPOSITION AND USES

00: -

The present invention relates to the use of at least one fatty acid, advantageously volatile and odorous, selected from the group comprising propionic acid, butyric acid and/or a derivative thereof as a repellent active principle and/or for controlling the reproduction of brachycera, and to the use of an, in particular phytosanitary, composition comprising at least one fatty acid, advantageously volatile and odorous, selected from the group comprising propionic acid, butyric acid and/or a derivative thereof as a repellent active principle and/or for controlling the reproduction of brachycera advantageously by olfaction, and non-insecticidal. The present invention can be used in the agricultural, veterinary and phytosanitary fields.



21: 2024/07108. 22: 2024/09/16. 43: 2025/10/01

51: A01N; A01P; A01G

71: BIOBAB R&D, S.L.

72: FRANCESCHINI SARRIA, ANDRÉ LUCIO, HORCHE TRUEBA, IGNACIO

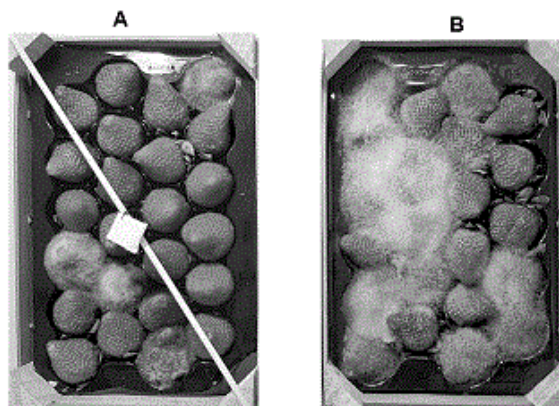
33: EP 31: 22382129.9 32: 2022-02-17

54: COMPOSITION FOR PREVENTING FUNGAL SPOILAGE IN POST-HARVEST FRUITS, VEGETABLES AND FLOWERS, METHOD AND USE THEREOF

00: -

The present invention relates to a composition for preventing fungal spoilage in post-harvest fruits, vegetables and flowers, method and use thereof. The composition of the present invention comprises beta-cyclocitral (β -cyclocitral) as the only active

ingredient that inhibits or delay fungal growth on post-harvest fruits, vegetables and flowers and provides excellent results in the preservation and the shelf life of these products. Furthermore, the method for preventing fungal spoilage in post-harvest fruits, vegetables and flowers of the present invention, comprises applying the composition through different means or techniques directly to the products or on the surface of the container or package.



21: 2024/07109. 22: 2024/09/16. 43: 2025/10/01

51: H04L

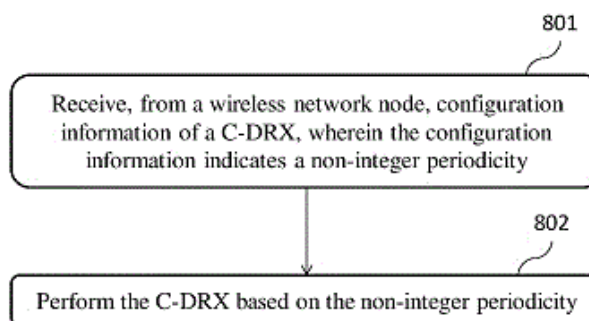
71: ZTE CORPORATION

72: SHA, XIUBIN, HUANG, HE, DAI, BO, ZHANG, LI, GAO, YUAN, VUTUKURI, ESWAR KALYAN

54: METHOD FOR WIRELESS COMMUNICATION AND DEVICES THEREOF

00: -

A wireless communication method for use in a wireless terminal is disclosed. The method comprises receiving, from a wireless network node, configuration information of a connected mode discontinuous reception (C-DRX), wherein the configuration information indicates a non-integer periodicity, and performing the C-DRX based on the non-integer periodicity.



21: 2024/07111. 22: 2024/09/16. 43: 2025/10/01

51: C11D

71: UNILEVER GLOBAL IP LIMITED

72: CHATTERJEE, DEBOSREE, MURALIDHARAN, GIRISH, PATHAK, GAURAV

33: EP 31: 22168926.8 32: 2022-04-20

54: A TABLET COMPOSITION

00: -

The present invention relates to a tablet for providing a liquid cleaning composition on dissolution in water.

There is a need for an improved tablet containing significantly high amount of detergent active, which is hard yet dissolves quickly in contact with water. It is found that a disintegrant mix comprising an organic solvent and select water-insoluble compound, and 50 to 90 % by weight surfactant provide a tablet, which is hard enough to resist breakage on transportation/storage yet dissolves fast in water.

21: 2024/07121. 22: 2024/09/17. 43: 2025/10/01

51: C07D; B01J; C06B

71: BAE SYSTEMS PLC

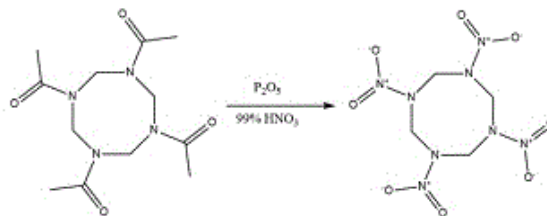
72: DIDSBURY, MATTHEW PAUL, MCWHIR, NIAL JOHN, JUBB, DANIEL, KENNEDY, STUART, KENNEDY, NICOLA, JONES, CHRISTOPHER, MURRAY, IAN EWART PATERSON

33: GB 31: 2203917.6 32: 2022-03-21

54: A METHOD OF PRODUCING EXPLOSIVE HMX BY FLOW SYNTHESIS

00: -

The following invention relates to methods of producing explosives from the nitration of TAT by flow synthesis. The invention relates to a method for the flow synthesis manufacture of HMX, (1,3,5,7-tetranitro-1,3,5,7-tetraazacyclooctane), comprising the steps of i. preparing input flow admixture, comprising TAT (1, 3, 5, 7-tetraacetyl- 1, 3, 5, 7-tetraazacyclooctane), P_2O_5 , in nitric acid wherein the nitric acid concentration is greater than 95%, ii. causing the input flow reagent to enter a flow reactor, iii. heating the reaction chamber in the flow reactor in the range of 60°C to 80°C, collecting the reacted admixture. (Formula (I))



21: 2024/07124. 22: 2024/09/17. 43: 2025/10/01

51: B29C; B65D; B29K

71: SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA

72: PUCCI, FABRIZIO, PARRINELLO, FIORENZO, MAZZOTTI, GIOVANNI, BALDUCCI, ELEONORA

33: IT 31: 102022000006653 32: 2022-04-04

54: CAPS FOR A CONTAINER AND METHOD FOR MAKING A CAP FOR A CONTAINER

00: -

A method for making a cap (1; 101; 201; 301; 401) for a container, comprises the steps of: inserting in a mould a material in a solid state or in the form of a solid dispersed in a liquid, said material containing at least 70% cellulose by weight; pressing the material in the mould, to obtain a cup-shaped component (2), the cup-shaped component (2) having a skirt (3) which extends around an axis (Z) and an end wall (4; 304) which closes the skirt (3) at one end thereof; making on the skirt (3) at least one breakable line (5; 305; 405) which at least partly surrounds the axis (Z) to define on the cup-shaped component (2) a closure body (6; 306; 406) and an annular band (7); folding a portion (18) of the annular band (7) inwards towards the inside of the cup-shaped component (2), to obtain at least one retaining element (26) which projects inwards towards the inside of the annular band (7) so as to keep the annular band (7) joined to a neck of the container.

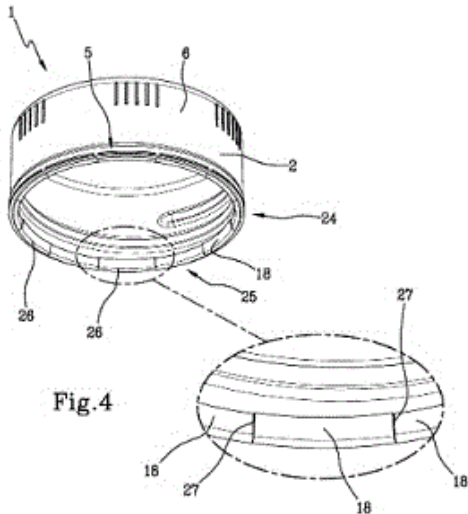
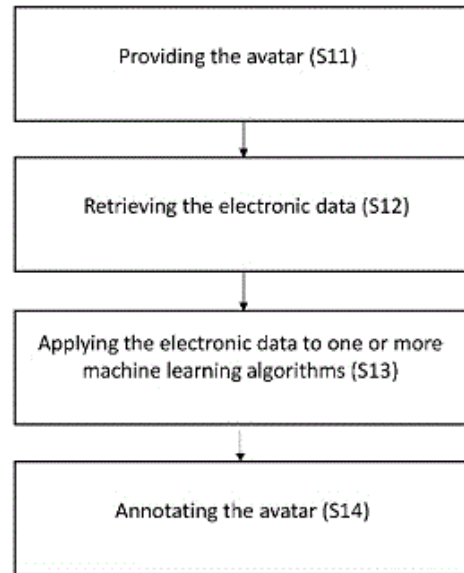


Fig. 4



21: 2024/07127. 22: 2024/09/17. 43: 2025/10/01

51: G16H; G06T; H04L; G06N

71: HEALTH CONNECT GLOBAL LIMITED

72: MOODLEY, DEVAN

33: US 31: 17/657,161 32: 2022-03-30

54: A COMPUTER IMPLEMENTED METHOD OF GENERATING AN AVATAR

00: -

There is provided a computer-implemented method of annotating an avatar representative of a human body with medical information associated with a patient, the method performed by a computer including a hardware processor, the method comprising: providing, by the hardware processor, the avatar; retrieving, by the hardware processor, electronic data from a blockchain, the electronic data describing the medical information; applying the electronic data, by the hardware processor, to one or more machine learning algorithms trained to associate the medical information with a body part from amongst a plurality of body parts of the human body; and annotating, by the hardware processor, the avatar with the medical information at a location of the associated body part.

21: 2024/07135. 22: 2024/09/17. 43: 2025/10/01

51: E02F

71: CATERPILLAR GLOBAL MINING LLC

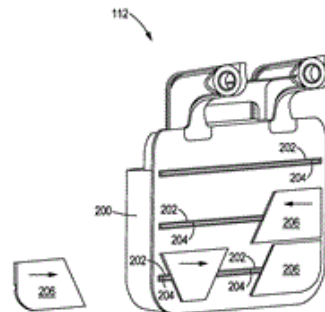
72: JAMILOSA, JAMES G

33: US 31: 17/699,368 32: 2022-03-21

54: LINER PLATE MOUNTING ASSEMBLY

00: -

A liner assembly (112) for protecting a sidewall (200) of a work implement (110) associated with operation of a work machine (100), and a method (1400) of using the liner assembly (112), is disclosed. The liner assembly (112) includes a wedge (202), a wedge-plate interface, a liner plate (206), and a weld (204). The wedge (202) includes a slot (300) for filling the weld (204) to secure the wedge (202) to the sidewall (200). The wedge (202) supports the liner plate (206) on the sidewall (200) via the wedge-plate interface. The weld (204) is further provided along the perimeter of the liner plate (206) to secure the liner plate (206) to the work implement (110).



21: 2024/07152. 22: 2024/09/18. 43: 2025/10/08

51: G01N C12Q

71: ILLUMINA, INC.

72: BLAIR, Dustin, WEN, Patrick, EARNEY, John, PRABHU, Anmiv, ABASKHARON, Rachel, HOLST, Gregory, LIU, Chia-Hsi, THAKUR, Ravi, Bhushan Singhchawhan, WATSON, Dakota, BARTIG, Kevin, SIM, Daeyong

33: US 31: 63/411,300 32: 2022-09-29

33: US 31: 63/521,136 32: 2023-06-15

54: DYNAMIC OPTICAL SYSTEM CALIBRATION

00: -

An apparatus includes a flow cell, an imaging assembly, and a processor. The flow cell includes a channel and a plurality of reaction sites. The imaging assembly is operable to receive light emitted from the reaction sites in response to an excitation light. The processor is configured to drive relative movement between at least a portion of the imaging assembly and the flow cell along a continuous range of motion to thereby enable the imaging assembly to capture images along the length of the channel. The processor is also configured to activate the imaging assembly to capture one or more calibration images of one or more calibration regions of the channel, during a first portion of the continuous range of motion. The processor is also configured to activate the imaging assembly to capture images of the reaction sites during a second portion of the continuous range of motion.

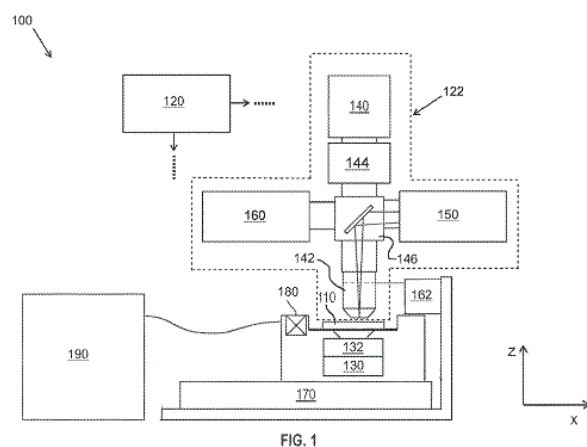


FIG. 1

21: 2024/07153. 22: 2024/09/18. 43: 2025/10/01

51: B02C; B01J

71: CATALER CORPORATION

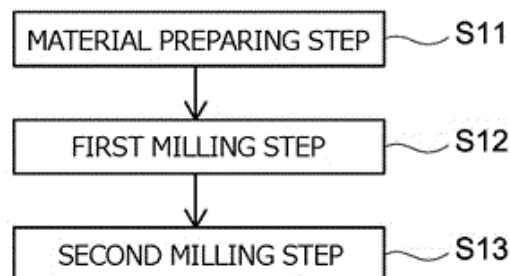
72: OHARA, ETSUKO, SHIMIZU, MICHIO, OKUBO, ATSUTAKA

33: JP 31: 2022-048385 32: 2022-03-24

54: METHOD FOR PREPARING SLURRY AND METHOD FOR PRODUCING EXHAUST GAS PURIFYING CATALYST

00: -

The present disclosure provides a manufacturing method for a slurry whereby milling time is shortened. The manufacturing method disclosed herein includes: a material preparation step for preparing a slurry manufacturing material containing a first inorganic oxide powder; a first milling step for milling the slurry manufacturing material using a first milling device provided with a first media until an average particle size, based on a laser diffraction/turbulence method, of the powder contained in the slurry manufacturing material is from 5 μm to 13 μm ; and a second milling step for milling the slurry manufacturing material using a second milling device, provided with a second media for which an average particle size is smaller than that of the first media, until the average particle size, based on the laser diffraction/turbulence method, of the powder contained in the slurry manufacturing material is 1 μm or less. Furthermore, prior to the first milling step, or after the first milling step and prior to the second milling step, also included is mixing a second inorganic oxide powder into the slurry manufacturing material.



21: 2024/07155. 22: 2024/09/18. 43: 2025/10/01

51: B43K; C08L

71: STAEDTLER SE

72: THIES, ANDREAS

33: DE 31: 10 2022 114 169.1 32: 2022-06-03

54: WRITING UTENSIL COMPRISING A PLA/PBS SHAFT BASE MATERIAL

00: -

The invention relates to a writing utensil 1 comprising a lead 2 and a shaft 3, wherein the lead 2 is arranged in the shaft 3 in a stationary manner, and the shaft 3 has a shaft base material. The shaft

base material comprises the following components: 60 to 75 wt.% of a filler/fillers, 15 to 30 wt.% of a binder mixture comprising PLA and a second binder selected from the group consisting of PBS and copolymers of the PBS, in particular PBSA, 0.2 to 6 wt.% of other additives such as adhesives, stabilizers, 1 to 10 wt.% of wax/waxes, and 0 to 4 wt.% of a dye, in particular a pigment.



21: 2024/07157. 22: 2024/09/18. 43: 2025/10/01
51: F04B

71: MAXIMATOR GMBH

72: ADLER, ROBERT, NAGL, CHRISTOPH,
RASCH, MARKUS, STEPHAN, MARKUS

33: EP 31: 22174113.5 32: 2022-05-18

54: COMPRESSOR AND METHOD FOR COMPRESSING A WORKING MEDIUM

00: -

The invention relates to a compressor (1) and to a method for compressing a working medium, having: a compressor piston (2) that compresses a working medium, a seal (4) for sealing off the compressor piston (2), a magazine (7) which contains a plurality of replacement seals (8), a changing device (11) for exchanging the seal (4) with one of the replacement seals (8) in the magazine (7), wherein the central axes (10) of the replacement seals (8) are arranged so as to be substantially aligned along a longitudinal axis (A2) of the magazine (7).

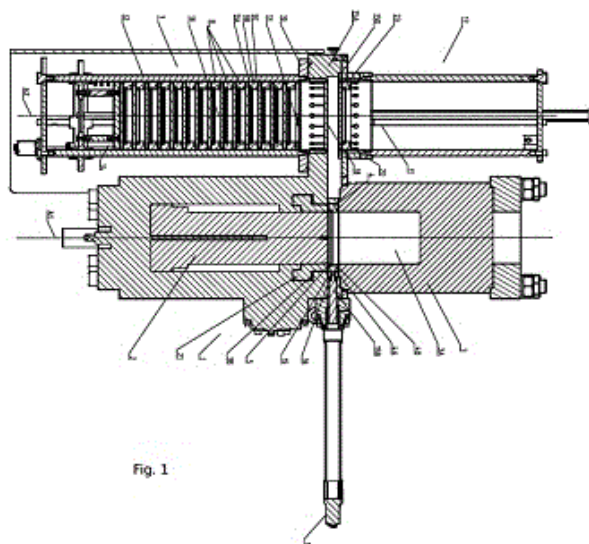


Fig. 1

21: 2024/07159. 22: 2024/09/18. 43: 2025/10/01
51: C07D; A61K; C07F; A61P

71: RIGEL PHARMACEUTICALS, INC.

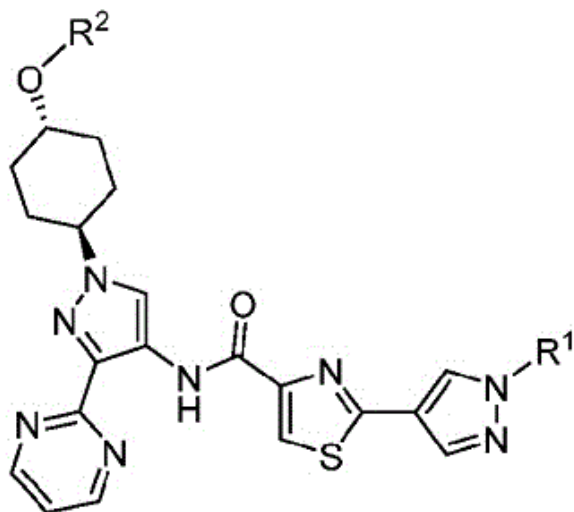
72: MAUNG, JACK, CHEN, YAN, SHAW, SIMON,
SWEENEY, DAVID, MASUDA, ESTEBAN

33: US 31: 63/322,955 32: 2022-03-23

54: PYRIMID-2-YL-PYRAZOLE COMPOUNDS AS IRAK INHIBITORS

00: -

Disclosed embodiments concern novel interleukin receptor associated kinases (IRAK) inhibitor compounds and compositions comprising such compounds. The compounds may have a structure according to Formula I (I) Also disclosed are methods of making and using the compounds and compositions. The disclosed compounds and/or compositions may be used to treat or prevent an IRAK-associated disease or condition.

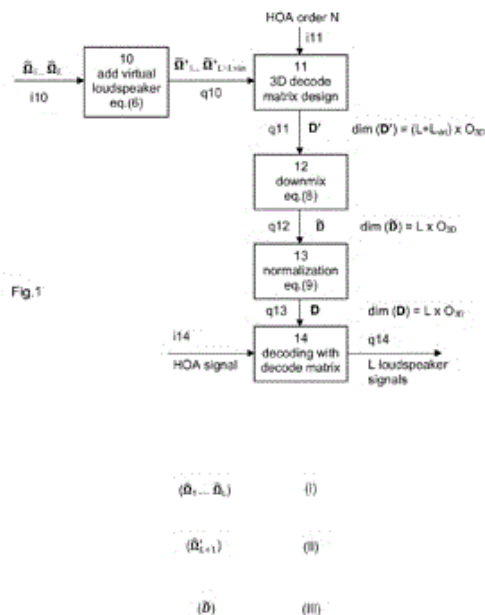


Formula I

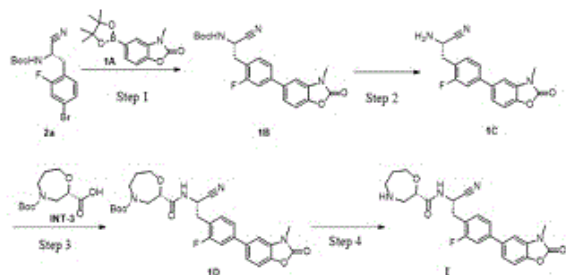
21: 2024/07181. 22: 2024/09/19. 43: 2025/10/01
 51: C07C; C01B; C01C
 71: TOPSOE A/S
 72: MINGUEZ, DAVID, DAHL, PER JUUL, KAKOTI, AMEET
 33: DK 31: PA202200319 32: 2022-04-05
54: REVAMP PROCESS FOR AN AMMONIA AND METHANOL CO-PRODUCTION PLANT
 00: -
 Process for revamp of a methanol and ammonia co-production plant.

21: 2024/07202. 22: 2024/09/20. 43: 2025/10/01
 51: H04S
 71: DOLBY INTERNATIONAL AB
 72: KEILER, FLORIAN, BOEHM, JOHANNES
 33: EP 31: 13290255.2 32: 2013-10-23
54: METHOD FOR AND APPARATUS FOR DECODING AN AMBISONICS AUDIO SOUNDFIELD REPRESENTATION FOR AUDIO PLAYBACK USING 2D SETUPS
 00: -
 Sound scenes in 3D can be synthesized or captured as a natural sound field. For decoding, a decode matrix is required that is specific for a given loudspeaker setup and is generated using the known loudspeaker positions. However, some source directions are attenuated for 2D loudspeaker setups like e.g. 5.1 surround. An improved method for decoding an encoded audio signal in soundfield format for L loudspeakers at known positions comprises steps of adding (10) a position of at least

one virtual loudspeaker to the positions of the L loudspeakers, generating (11) a 3D decode matrix (D'), wherein the positions (Formula I) of the L loudspeakers and the at least one virtual position (Formula II) are used, downmixing (12) the 3D decode matrix (D'), and decoding (14) the encoded audio signal (i14) using the downscaled 3D decode matrix (Formula III). As a result, a plurality of decoded loudspeaker signals (q14) is obtained.



21: 2024/07224. 22: 2024/09/20. 43: 2025/10/01
 51: C07D
 71: HAISCO PHARMACEUTICALS PTE. LTD.
 72: FAN, JIANG, DOU, YING, ZHU, FENGFEI, WANG, CHENGTAO, GAN, MAN
 33: CN 31: 202210160847.0 32: 2022-02-22
54: PREPARATION METHOD OF NITROGEN-CONTAINING HETEROCYCLIC COMPOUND
 00: -
 Disclosed is a preparation method of a nitrogen-containing heterocyclic compound represented by formula (I). The method comprises: carrying out a coupling reaction on a compound 1A and a compound 2a, and sequentially carrying out deprotection, amidation and deprotection reactions, which are four steps in total, to obtain a target compound. The method is short in reaction route, mild in condition, simple to operate, convenient in post-treatment, high in yield and high in purity, and is suitable for industrial amplification production.



21: 2024/07225. 22: 2024/09/20. 43: 2025/10/01

51: C07D; A61K; A61P

71: HAISCO PHARMACEUTICALS PTE. LTD.

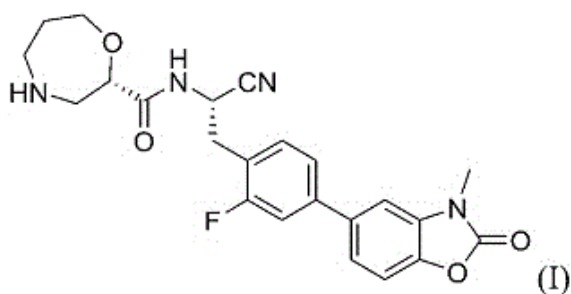
72: FAN, JIANG, DOU, YING, GONG, ZHENG, ZHU, FENGFEI

33: CN 31: 202210160862.5 32: 2022-02-22

54: SALT AND CRYSTAL FORM OF DIPEPTIDYL PEPTIDASE INHIBITOR COMPOUND

00: -

Disclosed are a crystal of the compound (S)-N-((S)-1-cyano-2-(2-fluoro-4-(3-methyl-2-oxo-2,3-dihydrobenzo[d]oxazole-5-yl)phenyl)ethyl)-1,4-oxazacycloheptane-2-carboxamide salt or a salt thereof, a preparation method therefor, and the uses thereof in pharmaceutical compositions and in medicine.



21: 2024/07260. 22: 2024/09/23. 43: 2025/10/01

51: C07D; A01N; A01P; A61K; A61P

71: NIHON NOHYAKU CO., LTD.

72: FUJITA, NAOYA, TANAKA, RYOSUKE, YONEMURA, IKKI, MITSUGI, KEISUKE, OIKAWA, HINOKI, YOKOI, TAIKI, YAMADA, TAKAYUKI

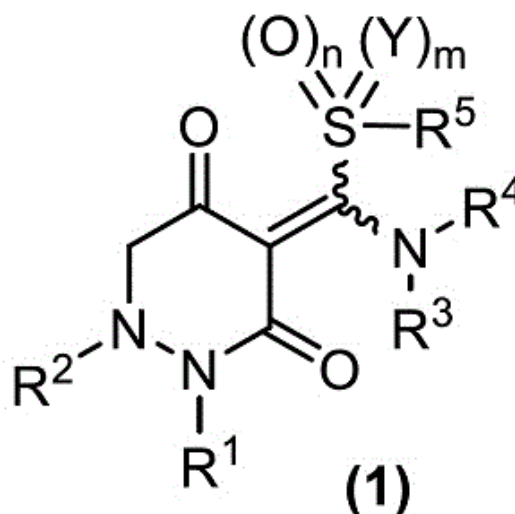
33: JP 31: 2022-051061 32: 2022-03-28

54: 1-ARYLTETRAHYDROPYRIDAZINE-3,5-DIONE DERIVATIVE OR SALT THEREOF AND INSECTICIDAL AGENT CONTAINING THE COMPOUND AND METHOD FOR USING SAME

00: -

For example, in agricultural and horticultural crop production, pests, etc. still cause heavy damage,

and there is a demand for the development of novel agricultural and horticultural insecticidal agents due to factors such as the emergence of pests resistant to existing drugs. The present invention has found that a compound represented by the general formula (1), wherein R¹ represents an alkoxycarbonyl group or the like, R² represents a substituted phenyl group or the like, R³ represents a hydrogen atom or the like, R⁴ represents a substituted phenyl group or the like, R⁵ represents an alkyl group or the like, Y represents an oxygen atom or the like and m and n each represent 0 or 1, or a salt thereof exhibits a high insecticidal effect on pests, etc. in the agricultural and horticultural field, and provides an agricultural and horticultural insecticidal agent comprising the same as an active ingredient and a method for using the same.



21: 2024/07265. 22: 2024/09/23. 43: 2025/10/01

51: A61K; A61P

71: LEXICON PHARMACEUTICALS, INC.

72: GOPINATHAN, SUMA, TYLE, PRAVEEN, YANG, QI MELISSA

33: US 31: 63/331,547 32: 2022-04-15

54: COMPOUNDS AND METHODS FOR TREATING SPASTICITY

00: -

Provided herein are methods of treating and preventing spasticity in a patient in need thereof. A particular method comprises administering an effective amount of an adaptor associated kinase 1 inhibitor of Formula (I).

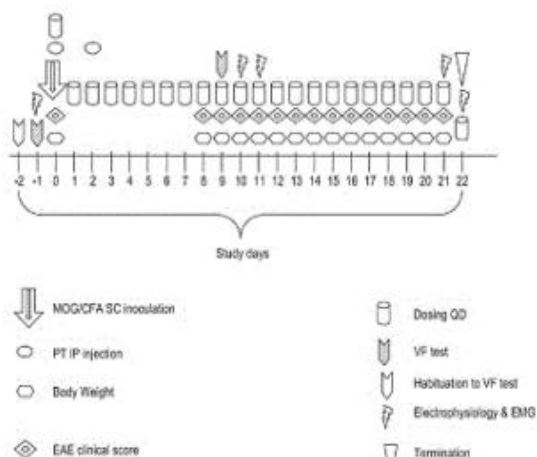


FIG. 1

21: 2024/07310. 22: 2024/09/25. 43: 2025/10/01

51: C07D; A61K; A61P

71: LUNELLA BIOTECH, INC.

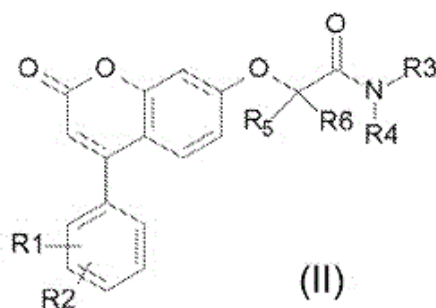
72: LISANTI, MICHAEL P, SOTGIA, FEDERICA, KANGASMETS, JUSSI, DI PISA, FILIPPO

33: US 31: 63/325,360 32: 2022-03-30

54: 2-[(2-Oxo-4-phenyl-2H-chromen-7-yl)oxy] PROPANAMIDO DERIVATIVES

00: -

Disclosed are 2-[(2-Oxo-4-phenyl-2H-chromen-7-yl)oxy]propanamido derivatives, wherein at least one of R1 to R4 bears an amido group. These derivatives may be used to target and eliminate cancer stem cells, and may be used as therapeutic agents for the treatment of cancer, including reducing the likelihood of and/or preventing tumor recurrence and metastasis. The compounds disclosed herein have demonstrated inhibition of tumorsphere forming capacity, migration and stemness-related signaling in cancer stem cells. These properties result from selective inhibiting of mitochondrial transcription targeting mitochondrial RNA polymerase (POLRMT) in cancer cells.



21: 2024/07324. 22: 2024/09/26. 43: 2025/11/20

51: F16L

71: LYCOPODIUM MINERALS PTY LTD

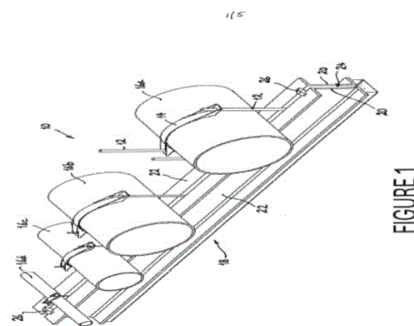
72: SANDERS, Kenneth Michael, RUGGIERO, Bruno

33: AU 31: 2024900176 32: 2024-01-25

54: PIPE CLAMPING SYSTEM

00: -

A pipe clamping system 10 is disclosed having a pair of tee bolts 12 and a clamping strap 14. An elongate structural steel support member 18 is also provided, having a pair of facing webs 20 spaced apart a distance sufficient to form a continuous longitudinal slot 24 through which the tee bolts can be received either side of a pipe 16. In use, a head 30 of each tee bolt abuts against adjacent bottom surfaces of the support member, on respective sides of the longitudinal slot 24, to enable the clamping strap 14 to be tensioned over the pipe 16. The pipe clamping system 10 can accommodate all pipe sizes.



21: 2024/07337. 22: 2024/09/26. 43: 2025/11/28

51: A01H; C12R

71: SYLVAN INC., SYLVAN AMERICA, INC.

72: KESSLER, Michael, SCHULTZ, Michelle, LOFTUS, Mark, AMINI, Aniça, DELBECQUE, Sylvie, SCHULTZ, Wes, KERRIGAN, Richard, WACH, Mark

33: US 31: 63/355,283 32: 2022-06-24

54: METHOD FOR EXCLUDING THE AGGRESSIVE INCOMPATIBILITY TRAIT FROM STRAINS OF AGARICUS BISPORUS AND RELATED STRAINS AND LINES

00: -

A method for excluding an aggressive incompatibility (AI) trait from Agaricus bisporus mushroom strains, wherein the method includes mating a culture of a hybrid mushroom line designated B18287-s82, a representative culture of the line having been deposited under NRRL Accession No. 68168, with a

culture of the white mushroom line designated WBL-s290, to obtain an F1 hybrid mushroom strain designated J19109, a representative culture of the F1 strain having been deposited under NRRL Accession No. 68163. Upon fruiting a culture of the new F1 strain designated J19109 to obtain homokaryotic spores therefrom, one obtains cultures of homokaryotic lines from the homokaryotic spores from F1 strain J19109 and selects a culture of a homokaryotic line from the F1 strain J19109. The culture of a homokaryotic line from F1 strain J19109 is mated with a culture of the mushroom line designated J11500-s80, to obtain an F2 hybrid mushroom strain. The culture of the F2 hybrid mushroom strain is tested to determine the presence or absence of the AI trait, wherein, in the absence of the AI trait, the AI trait has been excluded from the F2 hybrid mushroom strain.

21: 2024/07348. 22: 2024/09/26. 43: 2025/10/01
51: B01J

71: CATALER CORPORATION

72: SHIBATA, KOKI, INAMORI, KENTA

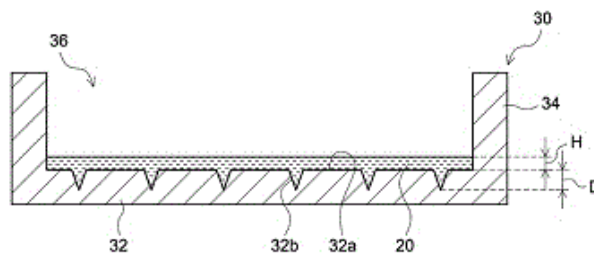
33: JP 31: 2022-057214 32: 2022-03-30

54: PRODUCTION METHOD FOR EXHAUST GAS PURIFICATION CATALYST AND CHEMICAL SOLUTION PLATE USED IN SAID PRODUCTION METHOD

00: -

The present disclosure provides technology for suppressing waviness of the loading width of a catalyst metal-loaded part in an exhaust gas purification catalyst. The production method disclosed herein comprises: preparing a base material that has an exhaust gas passage; preparing a catalyst metal solution that contains a catalyst metal which functions as a catalyst that can oxidize or reduce at least one type of exhaust gas component; supplying the catalyst metal solution to a chemical solution plate such that the bottom surface of the chemical solution plate is not exposed; immersing an end part of the base material in the catalyst metal solution supplied to the chemical solution plate and introducing the catalyst metal solution into the exhaust gas passage of the base material; and firing the base material in which the catalyst metal solution has been introduced. Formed in the bottom surface of the chemical solution plate is a groove of a prescribed pattern.

The average depth of the groove is 1.2-3 mm. The average width of the groove is 1.6-3 mm.



21: 2024/07381. 22: 2024/09/27. 43: 2025/10/01
51: C07C

71: JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED

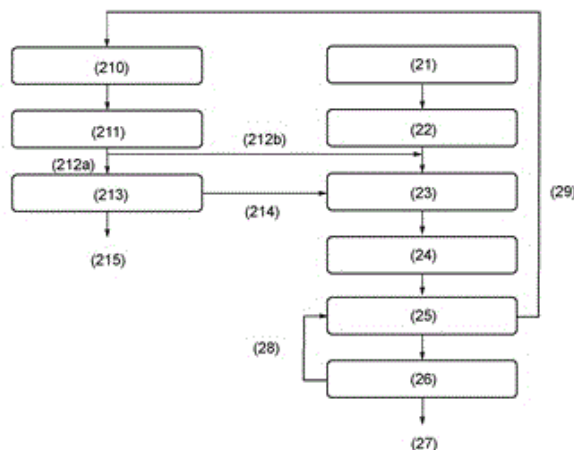
72: SMIDT, MARTIN LUCAS, SMIT, JOOST

33: GB 31: 2208493.3 32: 2022-06-10

54: PROCESS FOR PRODUCING VINYL CHLORIDE MONOMER FROM ACETYLENE

00: -

The specification describes a process for the production of vinyl chloride monomer (VCM) from acetylene and HCl. The process involves a primary reactor and a secondary reactor each comprising a hydrochlorination catalyst. The feed from the primary reactor is sent to a knockout drum. The feed from the secondary reactor is split, part is combined with the feed from the primary reactor while the other part is sent to a vent recovery unit. The vent recovery unit includes one or more stages in which liquid containing VCM is separated and sent directly to the KO drum. A cold vapor is generated from the KO drum which is sent to a compressor, followed by a lights separation unit and a lights column.



21: 2024/07459. 22: 2024/09/30. 43: 2025/10/01

51: C21C; F27D; F27B

71: SAMANCOR CHROME LIMITED

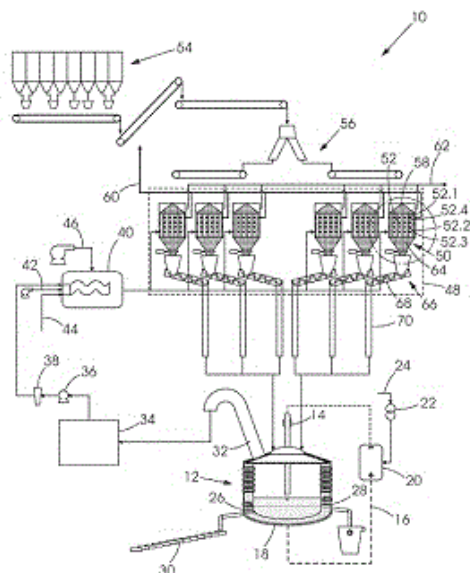
72: DU PLESSIS, BENJAMIN THOMAS, GRANT,
DONALD BRUCE

33: ZA 31: 2022/02936 32: 2022-03-11

**54: SYSTEM AND PROCESS FOR PREHEATING
RAW MATERIAL IN THE PRODUCTION OF
FERROCHROME PRODUCTS**

00: -

A process for preheating raw material in the production of ferrochrome products. The process includes extracting off-gas produced in a DC arc furnace (12), feeding the extracted off-gas to a hot gas generator (40) and generating hot gas by using the off-gas as a fuel source in the hot gas generator (40). The hot gas and the raw material is fed into the at least one preheater unit (50) and conveyed along discrete paths such that there is no direct contact between the hot gas and raw material. The process includes heating the raw material in the preheater unit (50) by means of conduction using the hot gas and extracting heated raw material from the preheater unit (50) for use in the DC arc furnace (12). The invention also concerns a system (10) for preheating the raw material.



21: 2024/07460. 22: 2024/09/30. 43: 2025/10/01

51: A61K; A61Q

71: CASTELLACCIO, RESTITUTA

72: CASTELLACCIO, RESTITUTA

33: IT 31: 102022000003869 32: 2022-03-02

54: ORAL CARE PRODUCT

00: -

The present invention relates to the use of N-acetyl cysteine to increase the effect of alkali or alkaline earth metal metabisulfite salts and ascorbic acid in counteracting pigmentation of tooth surfaces, dental mucous membranes, dental restorations or dental restorations in patients treated with chlorhexidine, and an oral care product comprising chlorhexidine, at least one metabisulfite salt of an alkali or alkaline earth metal, ascorbic acid, and N-acetyl cysteine.

21: 2024/07529. 22: 2024/10/03. 43: 2025/10/22

51: C22B; C08J; H01M

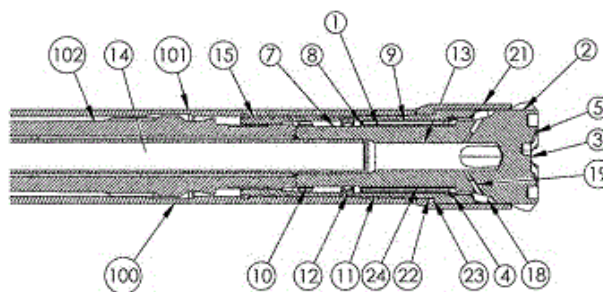
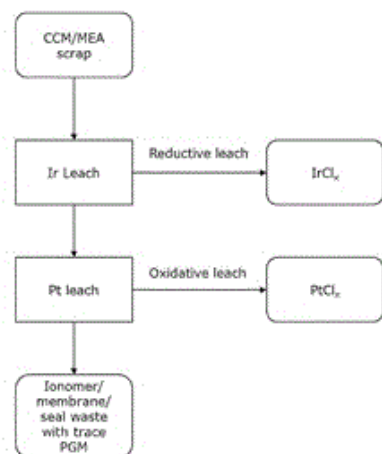
71: JOHNSON MATTHEY PUBLIC LIMITED
COMPANY72: BASRA, SHIREEN KAUR, MCCREE-GREY,
JONATHAN, TURNER JONES, MICHAEL, MISTRY,
KRISHNA, SPELLER, STEPHEN

33: GB 31: 2209137.5 32: 2022-06-22

**54: RECYCLING OF CATALYST COATED
MEMBRANE COMPONENTS**

00: -

A method of recycling a waste catalyst coated membrane material comprising an ionomer membrane, at least one catalyst comprising platinum, palladium and/or ruthenium, and at least one catalyst comprising iridium, the method comprising: (a) treating the waste catalyst coated membrane material with a heated solution comprising an acid and an oxidant, wherein platinum, palladium and/or ruthenium is leached from the waste catalyst coated membrane material into the solution which is separated from remaining solid components of the waste catalyst coated membrane material; (b) treating the waste catalyst coated membrane material with a solvent to disperse the ionomer membrane and recover a dispersion of ionomer, wherein the dispersing of the ionomer is performed before or after the leaching of the platinum, palladium and/or ruthenium; and (c) treating the waste catalyst coated membrane material to extract iridium.



21: 2024/07536. 22: 2024/10/03. 43: 2025/10/21

51: A61F; B65G

71: RUGGLI AG

72: AUER, MARCO

33: CH 31: 000474/2022 32: 2022-04-22

54: DEVICE FOR SHAPING AND/OR SMOOTHING A TAMPON END

00: -

The invention relates to a device for shaping and/or smoothing at least one end (101, 101') of a tampon blank, in particular an axial end of a tampon blank. The device comprises a guide unit (10) driven by at least one shaft (54), wherein the guide unit (10) comprises a first conveyor plane (72) and a second conveyor plane (70). The device also comprises a plurality of shaping sleeves (52) on the second conveyor plane (70) for receiving at least one respective tampon blank, and rotatable shaping caps (51) on the first conveyor plane (72), each designed to be operatively connected to at least one end of a tampon blank in a shaping sleeve (52). The first conveyor plane and the second conveyor plane are designed in order to guide a respective at least one of the plurality of shaping sleeves (52) on the second conveyor plane (70) coaxially relative to at least one of the plurality of rotatable shaping caps (51) on the first conveyor plane (72) on the conveyor plane. The invention also relates to a corresponding method and a computer program product for controlling a device.

21: 2024/07535. 22: 2024/10/03. 43: 2025/10/22
51: E21B

71: MINCON INTERNATIONAL LIMITED

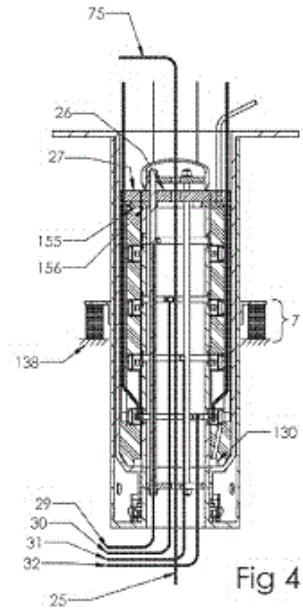
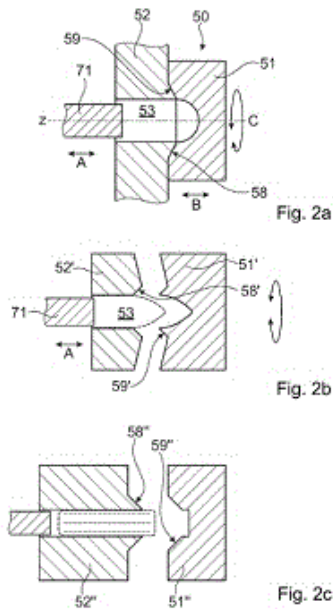
72: BLUNDELL, CARL

33: IE 31: S2022/0068 32: 2022-04-14

54: DRILL BIT ASSEMBLY FOR REVERSE CIRCULATION HAMMER

00: -

The present invention relates to a drill bit assembly (1) for a reverse circulation down-the-hole hammer (100). The assembly comprises a percussion bit (2) having a head portion (3) with a cutting face (5) at a forward end thereof with engagement means (8) on the head portion for engagement with complementary engagement means (9) on a drive chuck whereby rotational drive from the drive chuck may be transmitted to the percussion bit. Connection means (11) are provided on the drive chuck adapted for connecting the drive chuck to a drive means of the down-the-hole hammer. The percussion bit comprises a central bore (13) in fluid communication with the cutting face of the bit for returning a sample of drilled cuttings to the surface, a first plurality (17) of flushing grooves in an outer surface of the head portion, configured to deliver a supply of flushing medium to the cutting face of the bit and a second plurality (18) of flushing grooves in an outer surface of the head portion, configured to deliver a supply of flushing medium to the central bore.



21: 2024/07538. 22: 2024/10/03. 43: 2025/10/21

51: E21B; H01R

71: OBERMEYER, HENRY K

72: OBERMEYER, HENRY K, BLAIS, DREW, KVIETKUS, ERIK, PETERSEN, JOHN R, DUDEK, SCOTT J, MAFFEI, TIMOTHY J

33: US 31: 63/330,735 32: 2022-04-13

54: SUBMERSIBLE, HIGH-VOLTAGE ELECTRICAL CONNECTOR

00: -

A submersible, high-voltage electrical connector that includes a female connector and a male connector. The female connector has an interior chamber and a conduit configured to connect the interior chamber to an evacuation pump. The male connector is configured to fit within the chamber of the female connector. The conduit of the female connector is further configured to, when the male connector and the female connector are mated, substantially evacuate any liquid from the chamber of the female connector.

21: 2024/07541. 22: 2024/10/03. 43: 2025/10/27

51: H01B

71: TS CONDUCTOR CORP.

72: HUANG, JIANZHONG JASON, CHEN, RULONG, HUANG, JIANPING, KOHLI, VIVEK

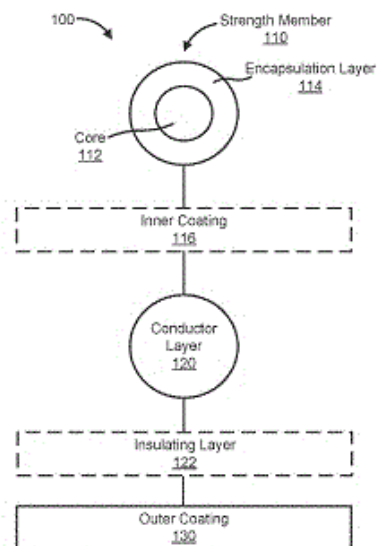
33: US 31: 63/324,468 32: 2022-03-28

33: US 31: 63/353,390 32: 2022-06-17

54: COMPOSITE CONDUCTORS INCLUDING RADIATIVE AND/OR HARD COATINGS AND METHODS OF MANUFACTURE THEREOF

00: -

An apparatus includes a strength member including a core formed of a composite material, and an encapsulation layer disposed around the core. A conductor layer is disposed around the strength member. A coating is disposed on the conductor layer. The coating is formulated to have a solar absorptivity of less than 0.5 at a wavelength of less than 2.5 microns, and a radiative emissivity of greater than 0.5 at a wavelength in a range of 2.5 microns to 15 microns, at an operating temperature in a range of 60 degrees Celsius to 250 degrees Celsius. The coating may have an erosion resistance that is at least 5% greater than an erosion resistance of aluminum or aluminum alloys.



21: 2024/07552. 22: 2024/10/04. 43: 2025/10/22

51: A61K; C07D; A61P

71: CORBUS PHARMACEUTICALS, INC.

72: MORNINGSTAR, MARSHALL, JIN, ZHUANG, DENG, HONGFENG

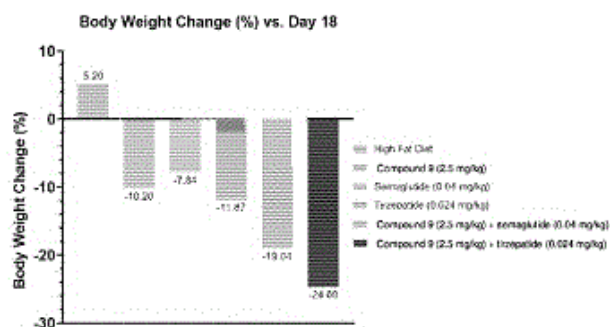
33: US 31: 63/328,611 32: 2022-04-07

33: US 31: 63/439,645 32: 2023-01-18

54: CANNABINOID RECEPTOR 1 ANTAGONISTS/INVERSE AGONISTS AND USES THEREOF

00: -

Disclosed herein are compounds suitable for use in the treatment of disorders, e.g., diabetic disorder, a dyslipidemia disorder, a cardiovascular disorder, an inflammatory disorder, a hepatic disorder, cancer, or obesity or co-morbidities thereof. Also disclosed are compositions containing one or more of the compounds and uses of the compounds in the treatment of disorders in a subject.



21: 2024/07597. 22: 2024/10/07. 43: 2025/10/22

51: G02B

71: SAMSUNG ELECTRONICS CO., LTD.

72: LEE, YONGJAE

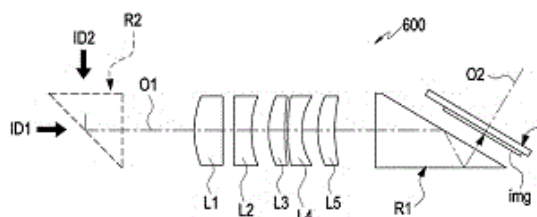
33: KR 31: 10-2022-0117829 32: 2022-09-19

33: KR 31: 10-2022-0065052 32: 2022-05-27

54: LENS ASSEMBLY AND ELECTRONIC DEVICE COMPRISING SAME

00: -

Provided is a lens assembly comprising: at least two lenses aligned along a first optical axis; an image sensor configured to receive light guided or condensed through the at least two lenses; and at least one optical member, disposed between the at least two lenses and the image sensor, which receives light incident through the at least two lenses, refracts or reflects the light at least twice, and then guides or emits the light to the image sensor, wherein the ratio of a long side of an imaging surface of the image sensor to a long side of an emission surface in a first optical member closest to the image sensor is within a specified range.



21: 2024/07599. 22: 2024/10/07. 43: 2025/10/22

51: C07K; A61P; G01N; A61K

71: NEX-I, INC.

72: YOON, KYOUNG WAN, BOO, KYUNGJIN, RYOO, JEONGMIN, SOHN, JINYOUNG, YEOM, JUNHO, KIM, SUJIN

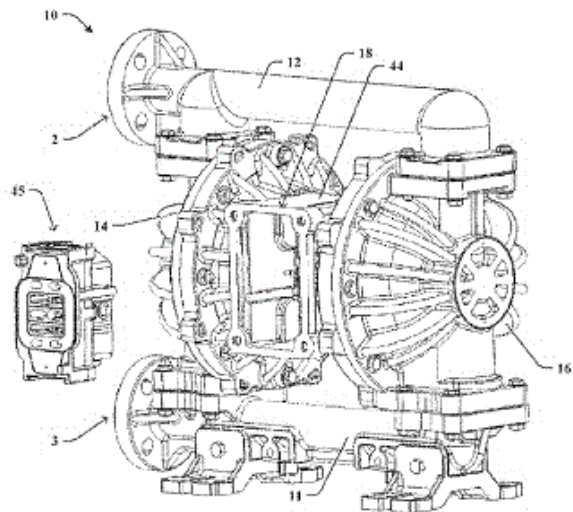
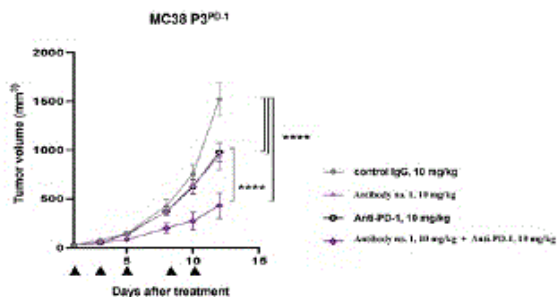
33: KR 31: 10-2022-0039982 32: 2022-03-30

54: ANTIBODIES THAT SPECIFICALLY BIND TO API5 PROTEIN

00: -

The present invention relates to antibodies that specifically bind to apoptosis inhibitor 5 (API5) and uses thereof. The antibodies that specifically bind to API5 or antigen-binding fragments of the antibodies, according to the present invention, may exhibit excellent anti-cancer effects, such as inhibiting phosphorylation of ERK in cancer cells and inhibiting cancer growth. Furthermore, the antibodies or antigen-binding fragments thereof exhibit excellent anti-cancer effects against cancers that are resistant

to anti-cancer drugs or do not respond thereto, and thus may be useful in preventing or treating not only typical cancers but also cancers that are resistant to conventional anti-cancer drugs or do not respond thereto.



21: 2024/07601. 22: 2024/10/07. 43: 2025/10/22
 51: F04B
 71: WARREN RUPP, INC.
 72: MORRIS, BRENT, FRYE, MARK, ROCKWELL, JIM
 33: US 31: 63/331,980 32: 2022-04-18
54: AIR OPERATED DOUBLE DIAPHRAGM PUMP WITH ACCESSIBLE FEATURES
 00: -

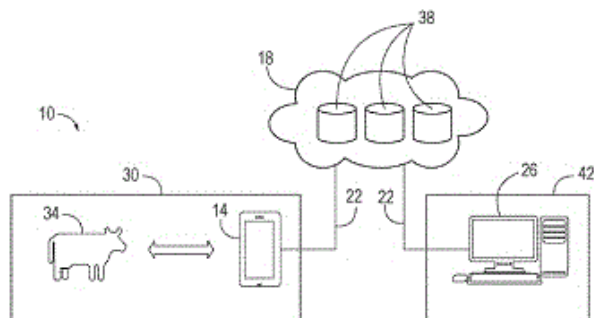
An air operated double diaphragm pump (10) comprises a selectably removable valve body (45) for convenient repair and maintenance. The pump (10) includes an inlet (3), an outlet (2), and first and second diaphragm chamber housings (14,16), each first and second diaphragm chamber housings defining a diaphragm chamber. A valve body housing (44) is arranged between the first and second diaphragm chamber housings (14,16). The valve body (45), which is arranged within the valve body housing (44), is in fluid communication with the diaphragm chambers of the first and second diaphragm chamber housings (14,16), and includes pilot signal ports, diaphragm chamber inlet ports, and chamber exhaust ports that are all accessible on a signal surface (48) of the valve body (44). The signal surface (48) may be on a same side of the valve body (44). To stabilize the pump (10) during repair and maintenance, stabilizing feet (138) may project from outer edges of the diaphragm chamber housings (14,16).

21: 2024/07602. 22: 2024/10/07. 43: 2025/10/27
 51: G06T
 71: TRUETRACE BIOMETRICS, INC.
 72: ELLIOTT, BRYAN, GITE, SHREYAS
 33: US 31: 63/333,812 32: 2022-04-22

54: SYSTEMS AND METHODS OF INDIVIDUAL ANIMAL IDENTIFICATION

00: -

An animal identification system accepts images, determines if animal faces exist in the images, then transforms those animal faces to permit comparison with known animal faces. The comparison process uses vectorized data to determine the similarity between known and unknown animal faces using, in some embodiments, a distance or difference function calculated on or among vectorized data. The system allows capture of known animal faces and addition of those known animal faces to the stored known animal faces in the system without retraining the comparison algorithm. The system improves over time, in part, from user feedback.



21: 2024/07603. 22: 2024/10/07. 43: 2025/10/22

51: C07D; A61P; A61K

71: VASA THERAPEUTICS SPOLKA Z
OGRANICZONA ODPOWIEDZIALNOSCIA72: LIPINSKI, PIOTR JAKUB, PRATT, BENJAMIN
ANTHONY

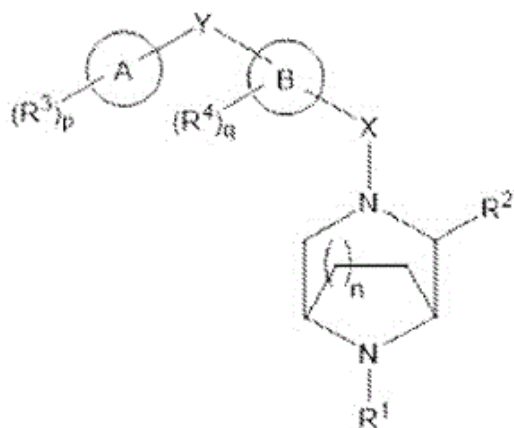
33: US 31: 63/324,713 32: 2022-03-29

33: PL 31: P.440789 32: 2022-03-29

**54: DIAZABICYCLOOCTANE DERIVATIVES
USEFUL AS MATRIX METALLOPROTEINASE
INHIBITORS**

00: -

Provided herein are compounds that are MMP inhibitors, methods of making such compounds, pharmaceutical compositions and medicaments comprising such compounds, and methods of using such compounds in treating a disease, disorder or condition selected from cardiovascular disorders, lung disorders, renal disorders, hepatic disorders, and scleroderma pigmentosum. (Formula I)



Formula (I):

21: 2024/07604. 22: 2024/10/07. 43: 2025/10/27

51: C01B; C10K

71: OMNIS ADVANCED TECHNOLOGIES, LLC
72: SWENSEN, JAMES S, GIBBEL, STEPHEN P,
GIBBEL, DAVID S, GRUNDER, DOUGLAS E,
HODSON, SIMON K

33: US 31: 63/320,667 32: 2022-03-16

**54: ULTRA-HIGH TEMPERATURE PYROLYSIS
SEPARATION OF HYDROGEN AND CARBON**

00: -

A continuous hydrocarbon pyrolysis process to produce hydrogen gas and carbon includes exposing a hydrocarbon feedstock to an oxygen depleted combustion gas within a hydrocarbon pyrolysis zone. A valveless pulse combustor produces the combustion gas at a temperature

greater than 2,400 °C. The hydrocarbon feedstock and combustion gas have a residence time within the hydrocarbon pyrolysis zone less than 30 seconds to cause pyrolysis of the hydrocarbon feedstock and produce gas comprising hydrogen and solid particles comprising carbon. The gas and solid particles exit the hydrocarbon pyrolysis zone at a temperature greater than 1,200 °C. A heat exchanger cools the gas and solid particles to a temperature less than 200 °C. A gas absorber removes unwanted gas molecules from the gas and produce H₂ containing gas having an H₂ concentration greater than 80 vol.% H₂. The H₂ containing gas is continuously introduced to a H₂ consuming facility.

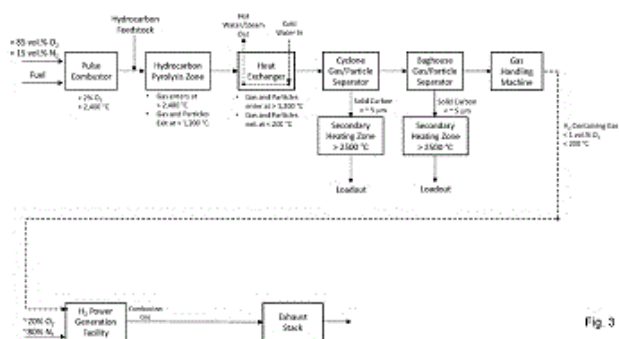


Fig. 3

21: 2024/07625. 22: 2024/10/08. 43: 2025/10/21

51: B61G

71: MINER ENTERPRISES, INC.

72: SCHOEDL, ERICH A, WILT, DONALD E,
HAYMOND, BRADLEY J

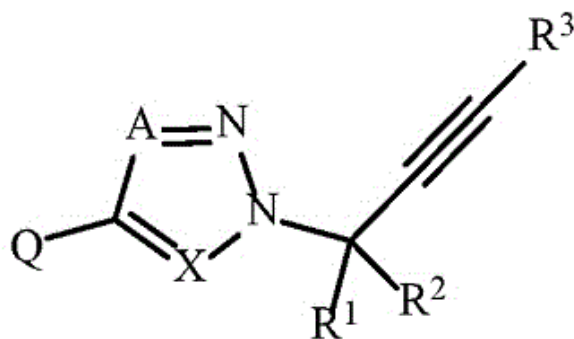
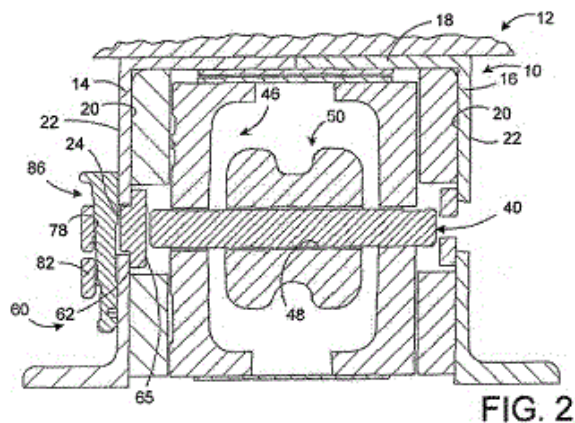
33: US 31: 63/335,593 32: 2022-04-27

**54: RAILCAR COUPLER KEY RETAINER
APPARATUS**

00: -

An apparatus for maintaining a railcar coupler key securing a railcar coupler shank to a yoke of a railcar. The railcar coupler key retainer apparatus includes an elongated key stop adapted to be secured against an interior surface of a sill side wall. A retainer is mounted to the exterior surface of the sill side wall and defines a through bore which aligns with a through bore in a flange portion of the key stop when the key stop abuts with a closed end of an elongated slot defined by the side wall of the sill. A locking member is received in the through bores in the key stop and retainer to secure the key stop to the interior surface of the sill side wall and thereby

maintaining the railcar key retainer apparatus to maintain the railcar coupler key between the side walls of the sill and to secure the yoke to the coupler shank.



1

21: 2024/07644. 22: 2024/10/09. 43: 2025/10/22
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.

21: 2024/07645. 22: 2024/10/09. 43: 2025/10/22
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: 2024/07648. 22: 2024/10/09. 43: 2025/10/21
51: C12N; A61K; A61P

71: ALNYLAM PHARMACEUTICALS, INC.
72: DEATON, AIMEE M, GANSNER, JOHN MICHAEL, MCININCH, JAMES D, SCHLEGEL, MARK K, GARFINKEL, BENJAMIN P

33: US 31: 63/278,227 32: 2021-11-11
33: US 31: 63/179,607 32: 2021-04-26

54: TRANSMEMBRANE PROTEASE, SERINE 6 (TMPRSS6) IRNA COMPOSITIONS AND METHODS OF USE THEREOF

00: -
The present invention relates to RNAi agents, e.g., double stranded RNA (dsRNA) agents, targeting the Transmembrane protease, serine 6 (TMPRSS6) gene. The invention also relates to methods of using such RNAi agents to inhibit expression of a TMPRSS6 gene and to methods of preventing and treating a TMPRSS6-associated disorder, e.g., a disorder associated with iron overload and/or a

disorder of ineffective erythropoiesis, e.g., hereditary hemochromatosis, β -thalassemia (e.g., β -thalassemia major and β -thalassemia intermedia), polycythemia vera, myelodysplastic syndrome, congenital dyserythropoietic anemias, pyruvate kinase deficiency, erythropoietic porphyria, parkinson's Disease, Alzheimer's Disease or Friedreich's Ataxia.

21: 2024/07666. 22: 2024/10/09. 43: 2025/10/22

51: C12Q

71: ADMIT THERAPEUTICS SL

72: BARRACHINA CASTILLO, MARTA,
MOSQUERA MAYO, JOSE LUIS, BLANCH
LOZANO, MARTA

33: EP 31: 22383135.5 32: 2022-11-25

33: EP 31: 22382237.0 32: 2022-03-11

54: METHODS OF DETERMINING THE RISK OF DEVELOPING ALZHEIMER'S DISEASE DEMENTIA

00: -

It is provided a method of determining the risk of developing Alzheimer's disease dementia in a subject, comprising: (a) determining in a sample of the subject comprising mitochondrial DNA, the methylation pattern in the D-loop region, and/or in the ND1 gene of the mitochondrial DNA; and (b) combining the methylation pattern of one or more sites determined in step (a), with at least one clinical variable of the subject, wherein said combining is performed using a classification model for determining a risk score which correlates to the risk of developing Alzheimer's disease dementia in the subject. A classification model, oligonucleotides, and kits to perform the method, are also provided.

21: 2024/07671. 22: 2024/10/09. 43: 2025/10/22

51: C10G

71: JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED

72: COOK, AMELIA LORNA SOLVEIG, MARTIN,
CHRISTOPHER THOMAS

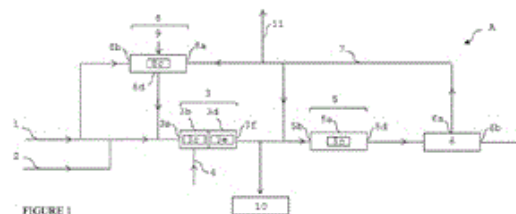
33: GB 31: 2208492.5 32: 2022-06-10

54: SYSTEM FOR PRODUCING A HYDROCARBON PRODUCT FROM A SYNGAS

00: -

A system for producing a hydrocarbon product from a syngas, the system comprising: a syngas generation unit, a Fischer-Tropsch unit, a separation unit, a recirculation line, a derichment reactor, a

carbon dioxide source, a hydrogen source, and a valve system configured to establish fluid communication in a first configuration or a second configuration.



21: 2024/07720. 22: 2024/10/11. 43: 2025/10/22

51: A61N

71: IMUTEC SAS

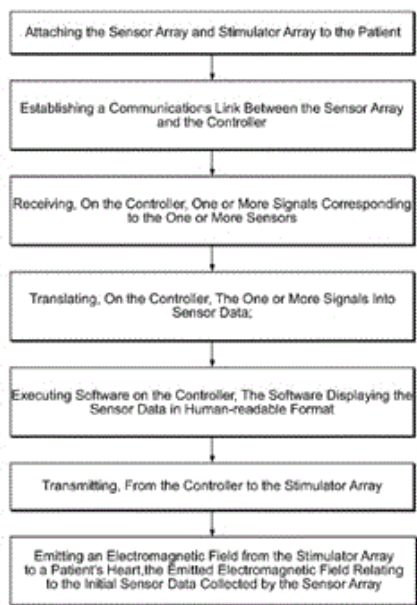
72: VOLF, NADIA

33: US 31: 17/695,089 32: 2022-03-15

54: DEVICE FOR CARDIOLOGIC MAGNETIC AND OPTICAL STIMULATION

00: -

A system and method for determining and modifying the electromagnetic activity of a patient's heart includes a sensor array, a controller, software, and a stimulator array. The sensor array includes one or more sensors, such as an ECG electrode, that detect the electromagnetic activity of a patient's heart. The sensor array is in data communication with the controller. The controller runs software that outputs in human-format sensor data provided by the sensor array. The software receives data from the controller, analyzes the data, presents the data to the user, and sends the data to the stimulator array via a data communication link. The stimulator array includes one or more electromagnets and at least one or more light-emitting diodes. The stimulator array emits an electromagnetic (and/or light) field to modify the electromagnetic activity of a patient's heart based on the data it receives from the controller. The system can be portable.



21: 2024/07721. 22: 2024/10/11. 43: 2025/10/22
51: C07C

71: FMC CORPORATION, FMC IP TECHNOLOGY GMBH

72: DI, YUANJUN, JI, SHUREN, LUAN, JIE, MAO, JIANHUA, SHI, WANGRONG, WANG, HAO

33: US 31: 63/330,813 32: 2022-04-14

54: METHODS FOR THE PREPARATION OF 5-CHLORO-2-((ETHOXYCARBONYL)AMINO)-3-METHYLBENZOIC ACID

00: -

Described herein are methods of synthesizing 5-chloro-2-((ethoxycarbonyl)amino)-3-methylbenzoic acid and derivatives thereof.

21: 2024/07722. 22: 2024/10/11. 43: 2025/10/22
51: C07D; A01N

71: FMC CORPORATION

72: LAHM, GEORGE PHILIP

33: US 31: 63/330,809 32: 2022-04-14

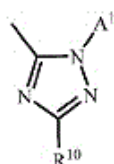
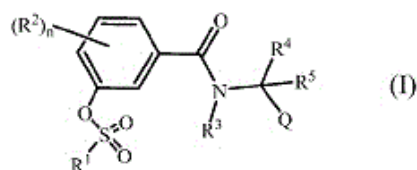
54: NOVEL SULFONATE BENZAMIDE COMPOUNDS FOR CONTROLLING INVERTEBRATE PESTS

00: -

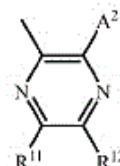
Disclosed are compounds of Formula (I), including all geometric and stereoisomers, *N*-oxides, and salts thereof, wherein Q is (Q¹) or (Q²) and R¹, R², R³, R¹⁰, R¹¹, R¹², A¹ and A² are as defined in the disclosure.

Also disclosed are compositions containing the compounds of Formula (I) 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.



(Q1)



(Q2)

21: 2024/07724. 22: 2024/10/11. 43: 2025/10/23
51: H01F; H01B

71: KOBOLD METALS COMPANY

72: HUNT, THOMAS, TOPINKA, MARK

33: US 31: 63/319,565 32: 2022-03-14

54: SUPERCONDUCTING INDUCTION LOOPS FOR MINERAL EXPLORATION

00: -

Electromagnetic induction systems that include superconducting wire are disclosed. The electromagnetic induction systems are suitable for mineral prospecting.

21: 2024/07776. 22: 2024/10/14. 43: 2025/10/22
51: B22D

71: REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG

72: RENGGLI, RAPHAEL

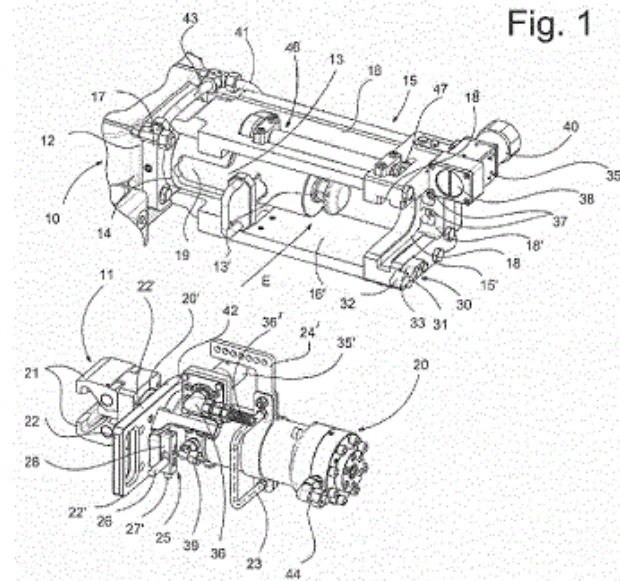
33: EP 31: 22173309.0 32: 2022-05-13

54: SLIDE CLOSURE FOR A VESSEL CONTAINING MOLTEN METAL

00: -

A slide closure for a vessel containing molten metal has a slider housing (12), a slide unit guided longitudinally therein, with a slide rod (13), a holder (15) on the slider housing (12) as well as a linear actuator (20) which can be fastened in this holder (15) with a drive rod (20') which can be coupled to the slide rod (13). The linear actuator (20) can be slid into the holder (15) on the slider housing (12), preferably transverse to its direction of adjustment, and can be removed from same and can be locked in the holder (15). At least one locking means (25, 30) is fastened to each of the linear actuator (20) and the holder (15), which locking means are

developed to interact such that the linear actuator (20) locks automatically after or during being pushed into the holder (15). A permanently secure fastening of the linear actuator in the holder thus results.

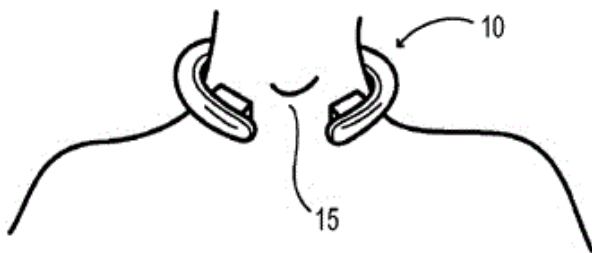


21: 2024/07791. 22: 2024/10/15. 43: 2025/10/22
 51: A61B; A61H; F41H
 71: Q30 SPORTS SCIENCE, LLC
 72: ELVIRA, GEORGE, GEORGIEV, STEPHAN, TREMBLAY, MARTIN
 33: US 31: 62/256,093 32: 2015-11-16

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: 2024/07812. 22: 2024/10/15. 43: 2025/10/22

51: H04L; G01S; G06Q

71: BANQU, INC.

72: GADNIS, ASHISH, KEISER, JEFFREY A, NATALENKO, STANISLAV S

33: US 31: 63/336,150 32: 2022-04-28

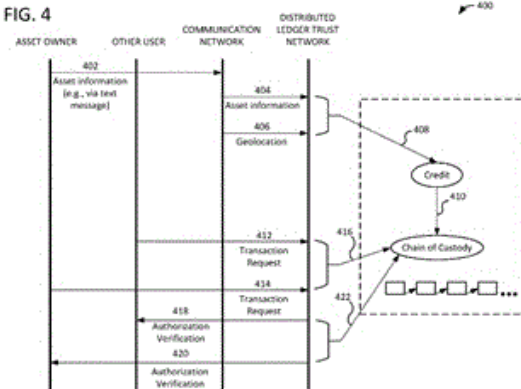
33: US 31: 18/133,993 32: 2023-04-12

54: TRANSACTION AUTHORIZATION AND VERIFICATION THROUGH DISTRIBUTED-LEDGER-BASED CHAIN OF CUSTODY

00: -

Systems, methods, and computer media for authenticating and verifying transactions using a distributed-ledger-based chain of custody are described herein. A transactable credit can be generated that represents establishment of a physical asset that is fixed to a geolocation. A decentralized chain of custody for the transactable credit can be established in a distributed ledger. The decentralized chain of custody can include information describing the establishment of the physical asset, the geolocation of the physical asset, and transaction information for transactions involving the physical asset. Transactions involving the transactable credit can be authorized using the decentralized chain of custody, and transaction information for such transactions can also be stored in the distributed ledger as part of the decentralized chain of custody.

FIG. 4



21: 2024/08543. 22: 2024/11/11. 43: 2025/11/28

51: C21B

71: ARCELORMITTAL

72: Mathieu SANCHEZ, Jean-Christophe HUBER, Simon Pierre DEPLECHIN

54: A METHOD OF MANUFACTURING MOLTEN PIG IRON INTO AN ELECTRICAL SMELTING UNIT

00: -

The invention deals with a method of manufacturing molten pig iron into an electrical smelting unit. The method comprises the following successive steps: - providing a directly reduced iron product 12, - feeding the DRI product 12 into the smelting unit 13, - feeding together with the DRI product 13, ferrous scrap having a size lower than 80mm, - melting the DRI product 13 and the ferrous scrap to produce molten pig iron. The invention also deals with a method to produce liquid steel from manufactured pig iron.

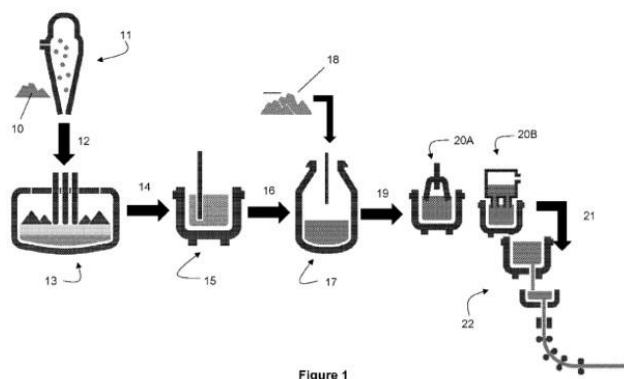


Figure 1

21: 2024/08551. 22: 2024/11/11. 43: 2025/11/28
51: C21B; C22B
71: ARCELORMITTAL
72: Jean-Christophe HUBER, Mathieu SANCHEZ, Simon Pierre DEPLECHIN
33: IB 31: PCT/IB2022/057045 32: 2022-07-29
54: A METHOD OF MANUFACTURING MOLTEN PIG IRON INTO AN ELECTRICAL SMELTING UNIT
00: -

The invention deals with a method of manufacturing molten pig iron into an electrical smelting unit 13. The method comprises the following successive steps: - providing a directly reduced iron product 12, - feeding the DRI product 12 into the smelting unit 13, - feeding together with the DRI product 13 at least one steel or ironmaking by-product-based material having an iron content upper than 20% in weight, at least a part of said iron being under an oxidized form, - melting the DRI product 13 and the at least one steel or ironmaking by-product-based material to produce molten pig iron. The invention also deals with a steel manufacturing method using said pig iron.

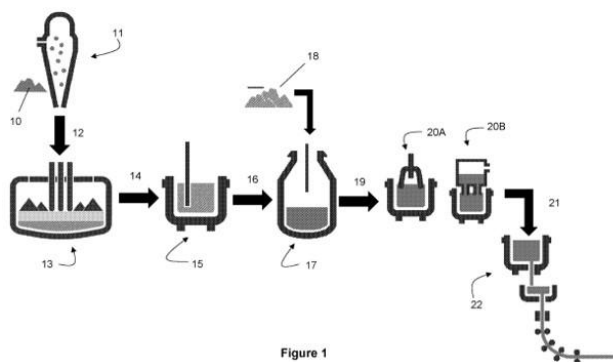
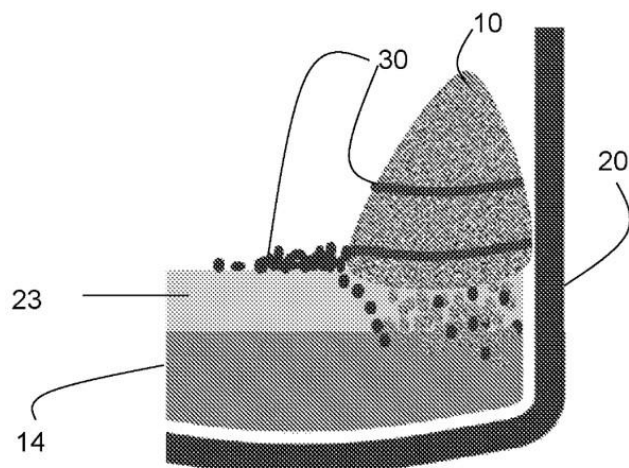


Figure 1

21: 2024/08632. 22: 2024/11/13. 43: 2025/11/28
51: C21B; F27B; F27D; C21C
71: ARCELORMITTAL
72: Mathieu SANCHEZ, Jean-Christophe HUBER
54: A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED SMELTING FURNACE
00: -
The invention deals with a method for manufacturing pig iron in an electrical smelting furnace 13 comprising a vessel 20, said method comprising the following successive steps: - loading DRI product in said vessel 20 - melting said DRI product to form a pig iron layer 14 topped by a slag layer 23 and - injecting a desulphurizing reagent directly in said pig iron layer 14. It also deals with the manufacturing of steel from said pig iron and to the associated electrical smelting furnace 13.

21: 2024/08633. 22: 2024/11/13. 43: 2025/11/28
51: C21C; C21B
71: ARCELORMITTAL
72: Jean-Christophe HUBER, Mathieu SANCHEZ, Eric Alain Gabriel HESS
54: A METHOD OF MANUFACTURING MOLTEN PIG IRON INTO AN ELECTRICAL SMELTING FURNACE
00: -
The invention deals with a method for manufacturing molten pig iron into an electrical smelting furnace 13, said method comprising the following successive steps: - providing a directly reduced iron product 12, - providing a carbon and iron containing material 30, - feeding at least a part of the smelting furnace with the DRI product 12 in alternance with the carbon and iron containing material 30, - melting the DRI Product 12 and the carbon and iron containing material 30 to produce molten pig iron 14. It also

deals with the manufacturing of steel from said pig iron.



21: 2024/08635. 22: 2024/11/13. 43: 2025/11/28

51: C21B; C21C

71: ARCELORMITTAL

72: Jean-Christophe HUBER, Simon Pierre DEPLECHIN, Mathieu SANCHEZ

54: A METHOD FOR MANUFACTURING PIG IRON IN A PRODUCTION LINE COMPRISING AN ELECTRICAL SMELTING FURNACE

00: -

The invention deals with a method for manufacturing pig iron in a smelting furnace 13 comprising a vessel 20, said method comprising the following successive steps: - loading DRI product in said vessel 20 - melting said DRI product to form a pig iron layer 14 topped by a slag layer 23 and - transferring said pig iron 14 to said desulphurization station 15 and - injecting a silicon containing material in said pig iron 14 in desulphurization station 15. It also deals with the manufacturing of steel from said pig iron.

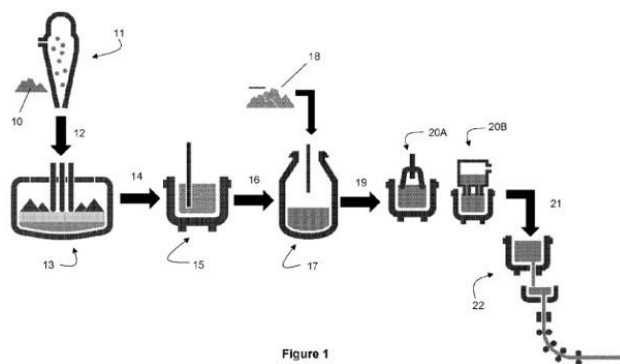


Figure 1

21: 2024/08637. 22: 2024/11/13. 43: 2025/11/28

51: C21B; C21C

71: ARCELORMITTAL

72: Jean-Christophe HUBER, Mathieu SANCHEZ, Simon Pierre DEPLECHIN

54: METHOD FOR MANUFACTURING PIG IRON IN A PRODUCTION LINE COMPRISING AN ELECTRICAL SMELTING FURNACE

00: -

The invention deals with a method for manufacturing pig iron in an electrical smelting furnace 13 comprising a vessel 20, said method comprising the following successive steps: - loading DRI product in said vessel 20 - melting said DRI product to form a pig iron layer 14 topped by a slag layer 23 and - transferring said pig iron 14 to said desulphurization station 15 and - injecting a carbon containing material in said pig iron 14 in desulphurization station 15. It also deals with the manufacturing of steel from said pig iron.

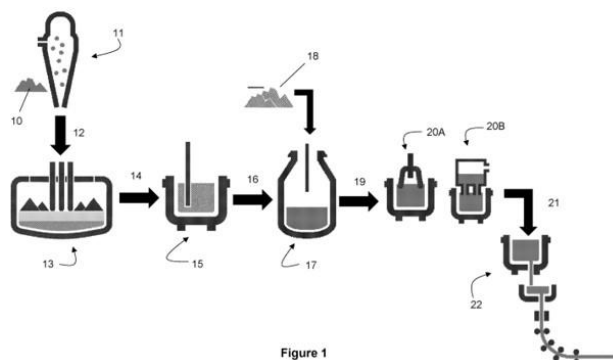


Figure 1

21: 2024/08673. 22: 2024/11/14. 43: 2025/11/28

51: C21B; F27B; F27D; C21C

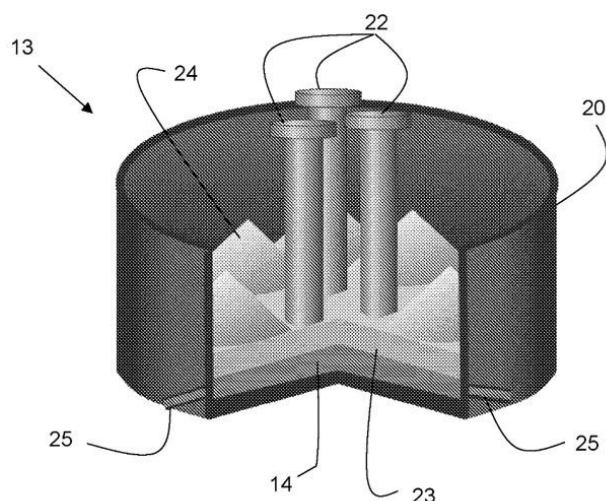
71: ARCELORMITTAL

72: Mathieu SANCHEZ, Jean-Christophe HUBER

54: A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED ELECTRICAL SMELTING FURNACE

00: -

The invention deals with a method for manufacturing pig iron in an electrical smelting furnace 13 comprising a vessel 20, said method comprising the following successive steps: - loading DRI product in said vessel 20 - melting said DRI product to form a pig iron layer 14 topped by a slag layer 23 and - injecting a desulphurizing reagent directly in said pig iron layer 14. It also deals with the manufacturing of steel from said pig iron and with the associated electrical smelting furnace.



21: 2024/08754. 22: 2024/11/18. 43: 2025/11/28
 51: A63H
 71: TONIES GMBH
 72: Patric FASSBENDER, Marcus STAHL, Christian WILMANN, Sven VADERS, Roman SALOMON
 33: EP 31: 22175526.7 32: 2022-05-25

54: APPARATUS, IN PARTICULAR A CONTROL APPARATUS, FOR DETECTING MOVEMENTS OF A MAGNET CARRIER

00: -

The invention relates to an apparatus (1), in particular a control apparatus (1), for detecting movements of a magnet carrier (20), wherein the apparatus comprises a monitoring unit (62), wherein the apparatus comprises a first sensor (9), wherein the first sensor can determine the direction of a magnetic field acting on the first sensor (9) relative to a preferred direction (A), wherein the monitoring unit (62) is designed such that the monitoring unit (62) outputs an output signal and/or a control signal on the basis of the direction of a magnetic field acting on the first sensor (9) relative to a preferred direction (A).

21: 2024/08761. 22: 2024/11/18. 43: 2025/11/28
 51: F27D; C21B; C21C; F27B
 71: ARCELORMITTAL
 72: Jean-Christophe HUBER, Mathieu SANCHEZ, Simon Pierre DEPLECHIN
54: A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED ELECTRICAL SMELTING FURNACE

00: -

The invention deals with a method for manufacturing pig iron in an electrical smelting furnace 13 comprising a vessel 20, said method comprising the following successive steps: - loading DRI product in said vessel 20 - melting said DRI product to form a pig iron layer 14 topped by a slag layer 23 and - injecting a carbon containing material directly in said pig iron layer 14. It also deals with the manufacturing of steel from said pig iron and to the associated electrical smelting furnace 13.

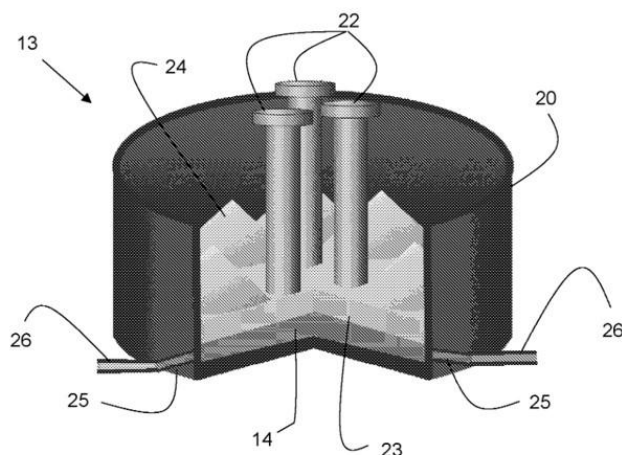
21: 2024/08824. 22: 2024/11/20. 43: 2025/11/28
 51: C21B; C21C; F27B; F27D
 71: ARCELORMITTAL

72: Jean-Christophe HUBER, Mathieu SANCHEZ, Simon Pierre DEPLECHIN

54: A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED ELECTRICAL SMELTING FURNACE

00: -

The invention deals with a method for manufacturing pig iron in an electrical smelting furnace 13 comprising a vessel 20, said method comprising the following successive steps: - loading DRI product in said vessel 20 - melting said DRI product to form a pig iron layer 14 topped by a slag layer 23 and - tapping said pig iron 14 into a ladle and - adding a carbon containing material directly in said pig iron 14 in the runner 26 of at least one of said smelting furnace tap holes 25. It also deals with the manufacturing of steel from said pig iron and with the associated electrical smelting furnace 13.



21: 2024/08838. 22: 2024/11/20. 43: 2025/11/28
 51: C21B

71: ARCELORMITTAL

72: Jean-Christophe HUBER, Mathieu SANCHEZ, Simon Pierre DEPLECHIN

54: A METHOD FOR PRODUCING MOLTEN PIG IRON INTO AN ELECTRICAL SMELTING UNIT

00: -

The invention deals with a method of manufacturing molten pig iron into an electrical smelting unit 13. The method comprises the following successive steps: - providing a directly reduced iron product 12, - feeding the DRI product 12 into the smelting unit 13, - feeding together with the DRI product 13 at least one steel or ironmaking by-product-based material comprising at least 10% in weight of slag forming agents, - melting the DRI product 13 and the at least one steel or ironmaking by-product-based material to produce molten pig iron. The invention also deals with a steel manufacturing method using said pig iron.

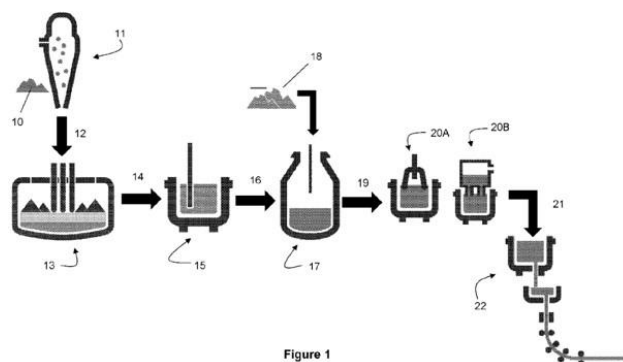


Figure 1

21: 2024/08902. 22: 2024/11/22. 43: 2025/11/28

51: C22C; C23C; B32B

71: ARCELORMITTAL

72: Guillaume PLANCHON, Marine KIEFFER, Larissa AGRIZZI RONQUETI, Eric JACQUESON, Jean-Michel MATAIGNE

33: IB 31: PCT/IB2022/056973 32: 2022-07-28

54: AUTOMOTIVE VEHICLE WITH PRESS HARDENED VISIBLE STEEL PARTS

00: -

An automobile, wherein at least one outer skin part or at least one semi- visible part is made of coated press hardened steel, the coating of said steel before heating and press hardening containing by weight, 8 to 12 % of Silicon, up to 3 % Iron, and unavoidable impurities up to 0.1 %, the balance being Aluminum, and wherein said coating has a thickness from 20 to 40 μm per side.

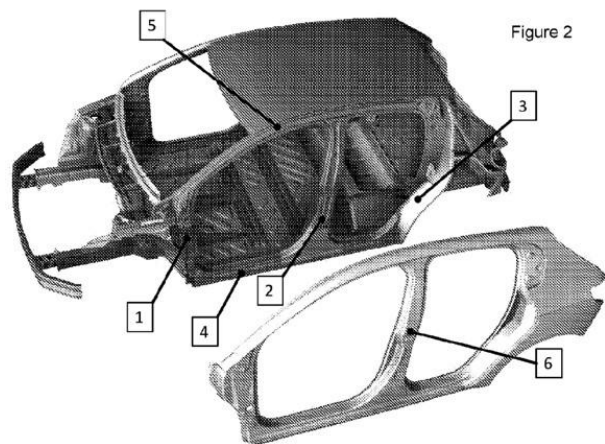


Figure 2

21: 2024/08948. 22: 2024/11/25. 43: 2025/11/28

51: B21D; B32B; C21D; C22C; C23C

71: ARCELORMITTAL

72: Raisa GRIGORIEVA, Maxime BROSSARD, Tiago MACHADO AMORIM

33: IB 31: PCT/IB2022/057248 32: 2022-08-04

54: STEEL SHEET WITH VARIABLE THICKNESS HAVING A REDUCED RISK OF DELAYED FRACTURE AFTER PRESS HARDENING AND METHOD FOR MANUFACTURING THE SAME

00: -

A coated steel sheet with variable thickness in the rolling direction, having one portion rolled at a rolling ratio from 1 to 60% and at least another portion rolled at a different rolling ratio, wherein the coating comprises zinc, silicon, magnesium, up to 3.0 wt % of iron, optional elements chosen from Ni, Zr, Hf, Sr, Sb, Pb, Ti, Ca, Mn, Sn, La, Ce, Cr, or Bi, the content by weight of each of the optional element being less than 0.3 wt %, optionally up to 100 ppm of calcium, and unavoidable impurities up to 0.02 wt %, the balance being aluminum, said coating having a coating weight from 50 to 500g/m² for the sum of both sides before flexible rolling.

21: 2025/01655. 22: 2025/02/24. 43: 2025/12/02

51: A61J; A61K

71: INNER MONGOLIA MINZU UNIVERSITY

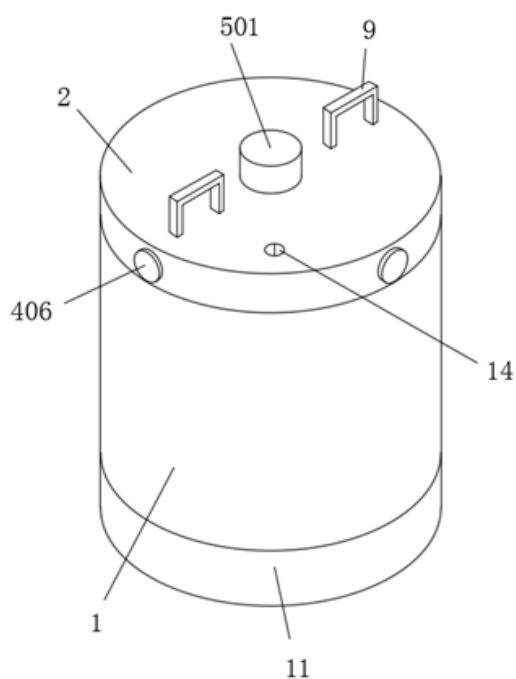
72: ZHAI, Jingbo, BAI, Li, WANG, Xingya, LIU, Mingyuan, WANG, Hui, LIU, Xin

54: TRADITIONAL CHINESE MEDICINE BOILING DEVICE FOR TREATING BRUCELLOSIS

00: -

Disclosed is a traditional Chinese medicine boiling device for treating brucellosis, comprising a boiling barrel, a barrel cover, and a carrying mesh barrel. Both sides of the inner cavity of the barrel cover are

provided with installation components, which include four movable grooves. The inner cavity of the movable groove is provided with threaded rods. The present invention can increase the airtightness and prevent the volatilization of traditional Chinese medicine by setting a barrel cover. The setting of the carrying mesh barrel can filter and process the medicine residue. By installation components, it is easy to disassemble the carrying mesh barrel, add traditional Chinese medicine into the carrying mesh barrel, and process the medicine residue after boiling. The medicine in the carrying mesh barrel can be stirred during boiling, making the heating of the medicinal materials more uniform, improving the leakage of medicinal power during boiling.



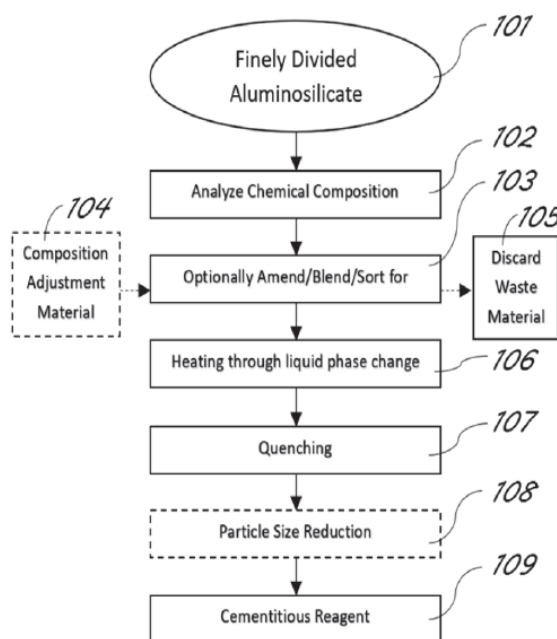
21: 2025/01922. 22: 2025/02/26. 43: 2025/09/30
51: C04B
71: TERRA CO2 TECHNOLOGY HOLDINGS, INC.
72: LAKE, Donald John
33: US 31: 62/867,480 32: 2019-06-27
33: US 31: 63/004,673 32: 2020-04-03
33: US 31: 63/025,148 32: 2020-05-14

54: CEMENTITIOUS REAGENTS, METHODS OF MANUFACTURING AND USES THEREOF

00: -

The invention provides for a method of reducing CO₂ in cement production, comprising the steps of forming a cementitious reagent which is a non-

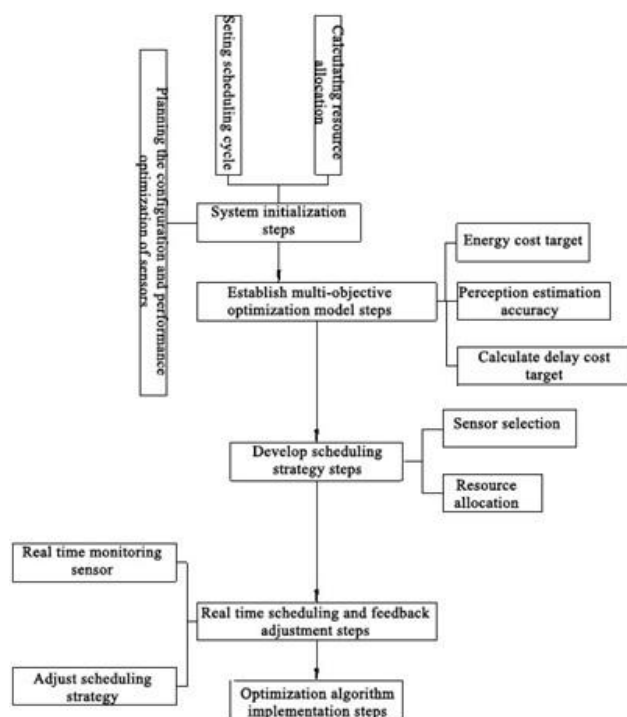
crystalline solid and has a particle distribution with D[3,2] of 20 μm or less; and adding the cementitious reagent to a binder. In some embodiments, the cementitious reagent may be in the form of a powder.



21: 2025/02064. 22: 2025/03/07. 43: 2025/12/04
51: G05B; G07F
71: NINGBO CITY VOCATIONAL AND TECHNICAL COLLEGE
72: WAN, Xucheng
54: INDUSTRIAL NETWORK SYSTEM SENSOR SCHEDULING METHOD
00: -

Disclosed is an industrial network system sensor scheduling method including system initialization steps, determining the number, location, and performance parameters of sensors, and setting scheduling cycles and computing resource allocation strategies; establish multi-objective optimization model steps, consider perception estimation accuracy, energy consumption, and computational delay, construct the objective function; develop scheduling strategy steps, including sensor selection and resource allocation. By comprehensively considering the energy consumption, the calculation delay and the perception estimation accuracy of the sensor, unnecessary sensor activation is reduced, meanwhile, the calculation delay is reduced by optimizing the calculation resource allocation, the

flexibility and the adaptability of the system are enhanced by monitoring and dynamically adjusting the scheduling strategy in real time, the energy efficiency ratio and the response speed of the industrial network system are improved, and the real-time performance and the high efficiency of the system are enhanced.



21: 2025/02074. 22: 2025/03/07. 43: 2025/12/02

51: G01M; G01R

71: NANCHANG HANGKONG UNIVERSITY

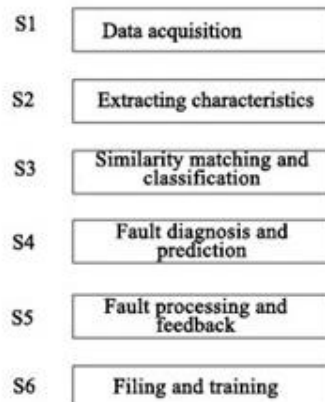
72: ZOU, Zhangchang, WANG, Fei, ZENG, Shan, MA, Xinui

54: ROTATING MACHINE FAULT DIAGNOSIS METHOD

00: -

The present invention belongs to the field of intelligent diagnosis technology for mechanical faults, specifically a rotating machine fault diagnosis method, comprising the following steps: S1: data acquisition, namely measuring various performance parameters of the rotating machine; S2: extracting characteristics, namely preprocessing acquired data, including filtering, denoising and standardizing to eliminate interference signals and noise; S3: similarity matching and classification, modeling the extracted features by adopting a machine learning algorithm, and training a classifier; S4: fault diagnosis and prediction; S5: fault processing and

feedback; S6: filing and training; Its reasonable structure helps to improve the accuracy and reliability of diagnosis during use, enabling timely, rapid, and accurate troubleshooting, ensuring the normal operation of equipment, maintaining production order, and increasing economic benefits.



21: 2025/02075. 22: 2025/03/07. 43: 2025/12/02

51: G01N

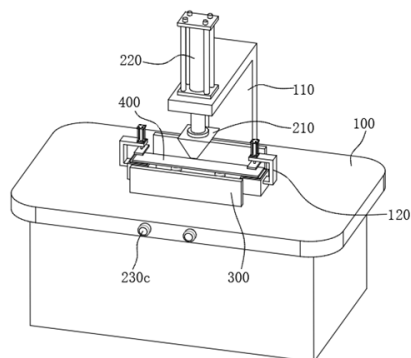
71: XINYU UNIVERSITY

72: WANG, Juan, FENG, Sixin, HUANG, Ying, PI, Ling, LI, Jie

54: FRACTURE MECHANICS EXPERIMENTAL DEVICE

00: -

The present invention belongs to the field of mechanical experimental technology, and specifically relates to a fracture mechanics experimental device, comprising a platform body, an anti fracture experimental mechanism, and a protective mechanism. The anti fracture experimental mechanism is installed on the platform body, and during operation, the anti fracture experimental mechanism performs anti fracture detection on the steel plate body to be tested located on the platform; The protective mechanism is located on the platform body and is used to provide limit protection for the fractured steel plate body during the operation of the anti fracture experimental mechanism. This fracture mechanics experimental device replaces the traditional method of conducting anti fracture detection experiments on steel plates, avoiding the problem of insufficient protective measures for the fractured steel plate and low safety during the experimental process.



21: 2025/02076. 22: 2025/03/07. 43: 2025/09/22

51: A61K; C07K

71: Ipsen Biopharm Limited

72: LIU, Sai Man

33: GB 31: 1607901.4 32: 2016-05-05

54: CHIMERIC NEUROTOXINS

00: -

The present invention relates to chimeric neurotoxins with enhanced properties and their use in therapy.

21: 2025/02080. 22: 2025/03/07. 43: 2025/12/02

51: G05B; G06N

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

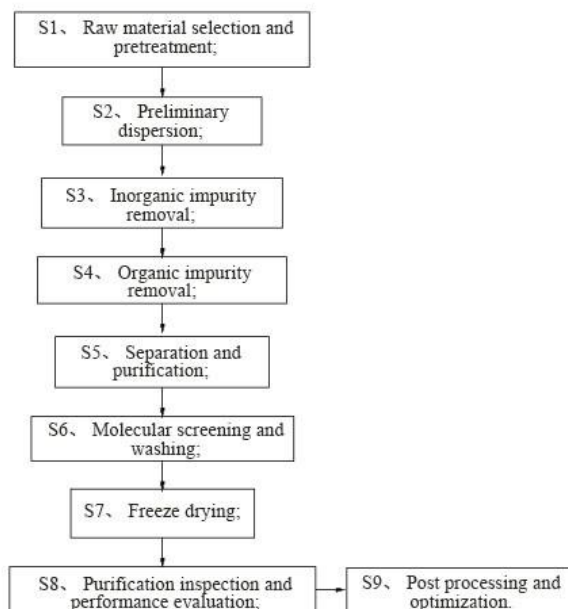
72: YIN, Jianan, YANG, Shicheng, LIU, Huayu, ZHANG, Shuaiguo

54: CARBON-BASED NANOMATERIAL PURIFICATION PROCESS

00: -

The present invention discloses a purification technology for carbon based nanomaterials, specifically a carbon-based nanomaterial purification process, which includes S1 raw material selection and pretreatment, S2 preliminary dispersion, S3 inorganic impurity removal, S4 organic impurity removal, S5 separation and purification, S6 molecular screening and washing, S7 freeze drying, S8 purification inspection and performance evaluation, and S9 post treatment and optimization. During the purification process, the materials are subjected to high-temperature treatment, acidification, pressure filtration, washing, and ultrasonic separation, and finally freeze drying, greatly improving the efficiency of purifying carbon based nanomaterials. After effectively removing oxides or other harmful impurities, the stability of carbon based nanomaterials in high-temperature,

high humidity and other oxidative environments is significantly enhanced.



21: 2025/02082. 22: 2025/03/07. 43: 2025/12/02

51: C01B

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

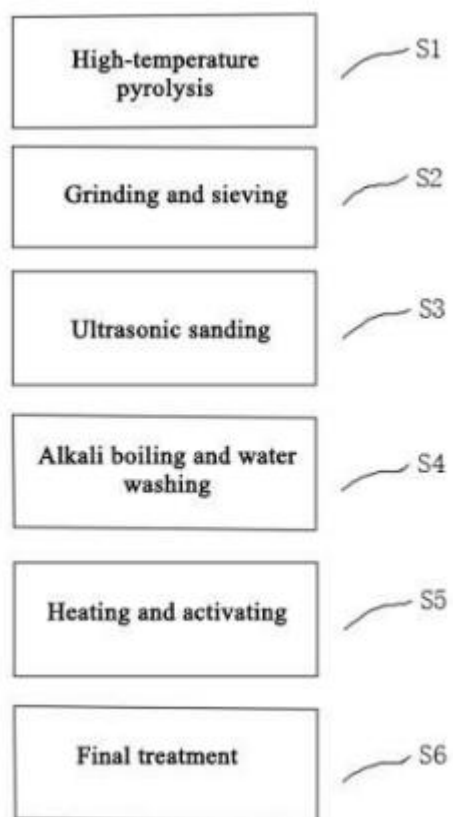
72: YANG, Shicheng, YIN, Jianan, SONG, Chengjian

54: METHOD FOR PREPARING POROUS CARBON MATERIAL

00: -

Disclosed is a method for preparing porous carbon materials. Firstly, a certain amount of biomass raw material is taken for impurity removal, drying, crushing, then subjected to high-temperature pyrolysis under closed anaerobic conditions to obtain biomass porous carbon. Then, an ultrasonic sanding mill is used to grind and screen the biomass porous carbon to obtain ultrafine carbon powder. Then, the ultrafine carbon powder is mixed with a certain amount of alkaline solution for reaction, washed with deionized water until neutral, and dried to obtain high-purity solid carbon powder. Take a certain amount of high-purity solid carbon powder and thoroughly mix it with a pore forming agent, then heat and activate it under a protective atmosphere, and add the pore forming agent to obtain a porous activated carbon material. Finally, the porous activated material is washed with water, acid boiled,

washed with water, and dried to obtain biomass porous nanocarbon materials.



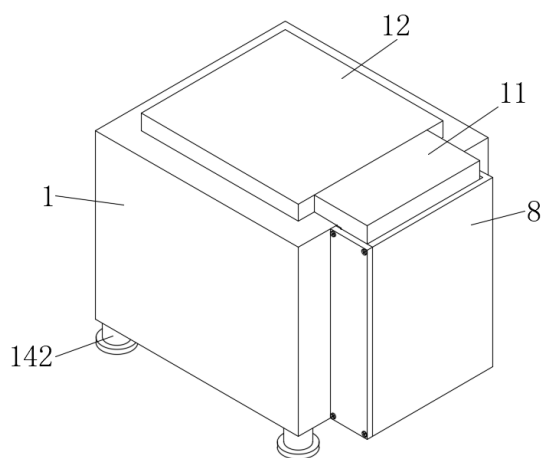
21: 2025/02084. 22: 2025/03/07. 43: 2025/12/02
 51: A47F
 71: SUZHOU UNIVERSITY
 72: XIANG, Yang, LI, Xiaoxuan, LIN, Shuai, YANG, Juan, QU, Tiantian

54: CULTURAL AND CREATIVE PRODUCT DISPLAY CABINET BASED ON IDEOLOGICAL AND POLITICAL PROPAGANDA

00: -

The present invention relates to display cabinet technology and discloses a cultural and creative product display cabinet designed for ideological and political propaganda. It comprises a cabinet body with an inner rectangular frame, where a rotating shaft, supported by a bearing, connects to a turntable and a driven gear. A rotating motor and driving gear enable rotational product display. A driving box, servo motor, screw, L-shaped plate, cover plate, and vertical plate facilitate smooth movement of products in and out of the cabinet, ensuring their protection. Support components allow

for mobility and adjustment of the cabinet's horizontal position. The structural design enables convenient rotation and display, enhancing visibility and accessibility for customers. By integrating these mechanical and electronic components, the invention provides an efficient and flexible solution for showcasing cultural and creative products while maintaining their security and ease of operation.

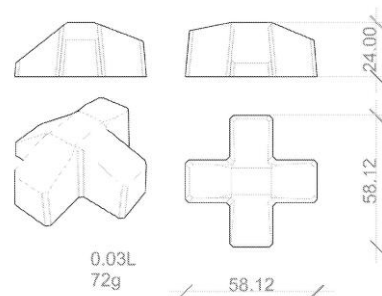


21: 2025/02099. 22: 2025/03/07. 43: 2025/09/17
 51: E02B; E02D
 71: EConcrete Tech Ltd
 72: SELLA, Ido
 33: US 31: 63/401,667 32: 2022-08-28

54: SYSTEMS AND UNITS FOR MARINE INFRASTRUCTURE FOUNDATION SCOUR PROTECTION

00: -

The invention provides scour protection methods and systems comprising a plurality of units, wherein each unit comprises a concrete matrix having a pH of less than 12; and wherein each unit can interlock with another unit; wherein said systems promotes and enhances the marine biological fauna and flora at the proximity of offshore aquatic infrastructures.

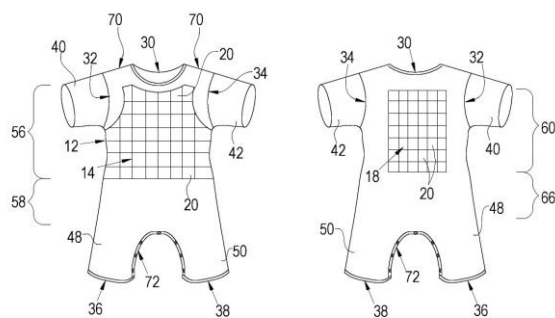


21: 2025/02197. 22: 2025/03/12. 43: 2025/09/18
 51: A41D; A47G; A61F; A61H
 71: MAMAS TOUCH SLEEPING AIDS (PTY) LTD.
 72: HENNING, Shannon
 33: ZA 31: 2023/11393 32: 2023-12-12

54: WEARABLE SLEEPING GARMENT

00: -

A sleeping garment that can be worn by a user, and in particular babies, is provided. The garment comprises a front portion comprising or fitted with a first weighted arrangement to exert/apply gentle pressure against the user's chest (when the user is lying on his or her back); and a back portion comprising or fitted with a second weighted arrangement to exert/apply gentle pressure against the user's back (when the user is lying on his or her front). In an embodiment, the first and second weighted arrangements comprise quilted panels that define a plurality of pockets separated by stitching to accommodate weighting means, such as weighted glass beads. In an embodiment, the sleeping garment defines a neck aperture, a pair of arm apertures and a pair of leg apertures, to accommodate the user's neck, arms and legs respectively.

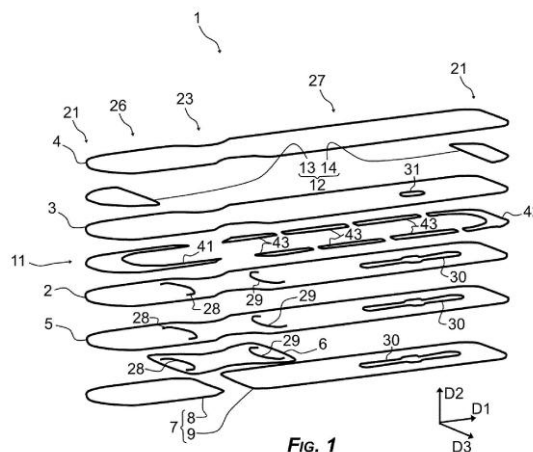


21: 2025/02211. 22: 2025/03/12. 43: 2025/09/26
 51: A61B
 71: F2D Medical
 72: D'ESTAIS, Mathias, MENARD, Benjamin, VAUPRES, Maxime
 33: FR 31: FR2209449 32: 2022-09-19

54: MULTILAYER COVER FOR HOLDING A DEVICE ON A HUMAN BODY

00: -

The invention relates to a cover (1) for holding a device on the body of an individual. The cover (1) comprises a stack of layers (2-7, 11, 12) assembled using a roll-to-roll type method.



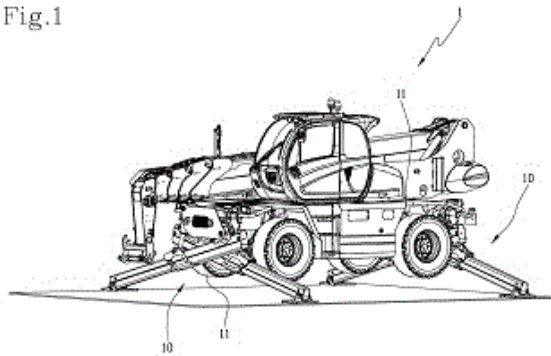
21: 2025/02245. 22: 2025/03/13. 43: 2025/10/31
 51: B66C
 71: MANITOU ITALIA S.R.L.
 72: IOTTI, MARCO
 33: IT 31: 102024000006070 32: 2024-03-19

54: SYSTEM FOR STABILISING SELF-PROPELLED OPERATING MACHINES

00: -

A method for controlling a scissor stabiliser of self-propelled operating machines, such as telescopic handlers, involves at least one pair of rotatable telescopic stabilising arms. Each arm has a first segment that rotates between a raised and an operating position, and a second segment that slides between an extended and a closed position, featuring a foot for ground contact. The stabiliser can switch between an active configuration, where the first segments are in the operating position and the second segments are extended, raising the machine's wheels off the ground, and an inactive configuration, where the first segments are raised and the second segments are closed, resting the wheels on the ground. The transition from active to inactive configuration involves synchronous movements, including rotating the first segments from the operating to the raised position and sliding the second segments from the extended to the closed position.

Fig.1



21: 2025/02335. 22: 2025/03/17. 43: 2025/09/19
51: F24F; F25D
71: SPECIALISED CLIMATE ENGINEERING (PTY) LTD.

72: ANDERSEN, John Craig

54: THERMAL BARRIER SYSTEM FOR A DOORWAY

00: -

A thermal barrier system for a doorway that separates a first room, such as a freezer room or cold-room, with relatively cold, heavy air, and an adjacent second room with relatively warm, light air. The system comprises an elongate, vertically extending column adjacent the doorway, the column comprising a plurality of round tubular portions joined together, end to end, to define the column, with an inlet being defined at the upper end of the column, to receive the relatively cold, heavy air from the first room. At least one of the round tubular portions comprises a plurality of elongate curved plates that are joined side by side to define the round tubular portion, with the plurality of elongate curved plates comprising first and second adjacent curved plates that are arranged to define a slot that in turn defines a vertical linear air diffuser of an air delivery system.

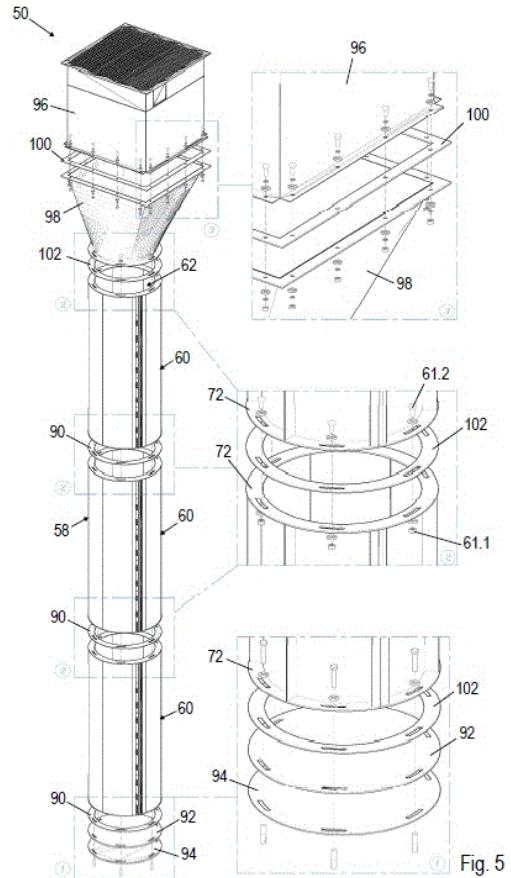


Fig. 5

21: 2025/02366. 22: 2025/03/18. 43: 2025/09/22
51: B01D; B04C

71: WERNER WATER RECYCLING (PTY) LTD.

72: VERMEULEN, Thomas Johannes

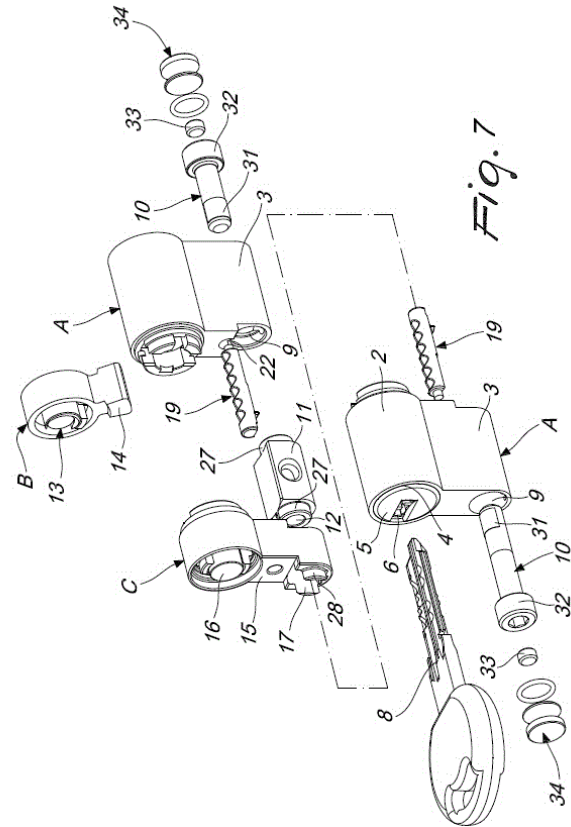
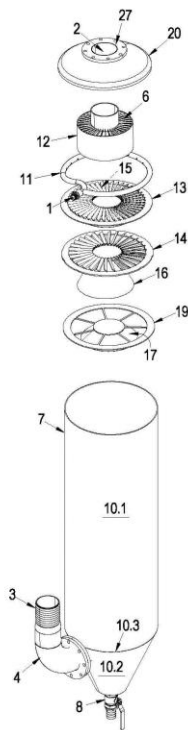
33: ZA 31: 2024/05032 32: 2024-06-27

54: An air purification device

00: -

The present invention relates to an air purification device 18 configured to purify air by way of centrifugal action and water filtration. The air purification device has a hollow body 7 which defines a feed inlet 23, a water filtration zone 24 configured to hold water 25, downstream of the feed inlet 23, an overflow outlet 2 for removal of filtered air from the hollow body 7, an underflow outlet 26 for discharging filtered material from the device 18, a plurality of vortex inducers 6, 13, 14 spatially separated and disposed within the hollow body downstream of the water filtration zone, and a plurality of depending deflectors 15, 16, 17 arranged downstream of the water filtration zone but upstream of the vortex inducers 6, 13. The depending

deflectors 15, 16, 17 are configured to deflect water particles towards the underflow outlet 26.



21: 2025/02398. 22: 2025/03/19. 43: 2025/09/22

51: E05B

71: CISA S.p.A.

72: FABBRI, Matteo

33: EP(IT) 31: 24171915.2 32: 2024-04-23

54: CYLINDER LOCK

00: -

A cylinder lock (1) comprising: external first modules (A) and, second actuation modules (B), which comprise a respective stator (11) and a respective rotor (13); third extension modules (C), which comprise a respective stator (15) inside which a respective rotor (16) is able to freely rotate; at least one external first module (A) comprises at least one housing channel (18) for encoding means (7); at least one contoured plate (19) which houses at least one head of at least one elastic element (21) of one of the encoding means (7); the radial expansion (3) comprises a longitudinal conduit (22) which has a shape and dimensions that are complementary to those of the plate (19) for the housing thereof; the plate (19) when accommodated in the longitudinal conduit (22) defines a separating wall between the at least one channel (18) and a compartment (9).

21: 2025/02399. 22: 2025/03/19. 43: 2025/09/22

51: G06Q

71: NAGAO, Tsukasa, NAGAO, Koki

72: NAGAO, Tsukasa, NAGAO, Koki

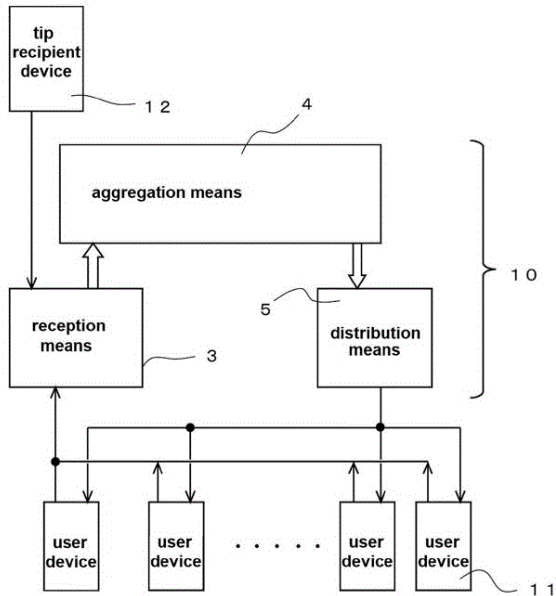
33: US 31: 18/704,421 32: 2024-04-24

54: ELECTRONIC TRANSACTION MANAGEMENT SYSTEM FOR PROVIDING A TIP

00: -

An electronic transaction management system for providing a tip enables the users who give tips and the tip recipient to send and receive tips, even when located apart. It provides tip distribution to a user randomly selected from all users; and is expected to improve interest due to expectations for distribution, and thus enhance the motivation for users to give tips; it enables increasing connection between the users and the tip recipients; and enables elevating the act of tipping to a kind of event. The electronic transaction management system comprises a management server and user device, the management server comprising distribution means for distributing an arbitrary percentage, amount, or other forms of an arbitrary tip transferred from the

user device, to a recipient, a user selected randomly by the management server from all users giving a tip, and distributing the remaining percentage, amount, or other forms to the tip recipient.



21: 2025/02408. 22: 2025/03/19. 43: 2025/09/25

51: D05C; G06T

71: SWANEPOEL, Ansulet

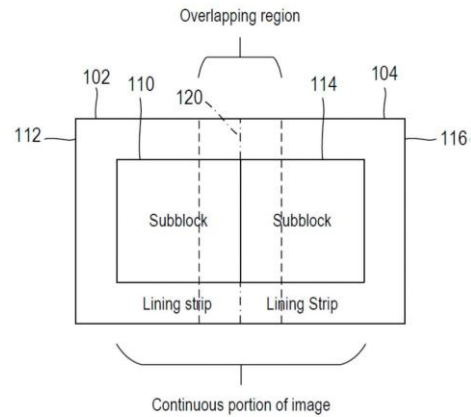
72: SWANEPOEL, Ansulet

33: ZA 31: 2024/02518 32: 2024-04-02

54: A Method of Preparing a Multipixel Image for Quilting and a Prepared Image

00: -

A method of preparing a multipixel source image (10) for quilting includes dividing the source image into a plurality of partially overlapping blocks (102, 104) arranged in a grid or template, the blocks comprising a plurality of pixels representative of overlapping portions of the source image. For at least two adjacent blocks, namely a first block (1020) and a second block (104), the method includes defining a subblock (110, 114) of each block, namely first and second subblocks. The first and second subblocks represent portions of the source image which are contiguous, do not overlap each other, and form a larger continuous portion of the source image. The method further includes defining peripheral lining strips (112, 116) of each block, namely first and second lining strips, with the lining strip extending partially or fully around its subblock, the subblock and its lining strip(s) being continuous.



21: 2025/02442. 22: 2025/03/20. 43: 2025/10/16

51: H04L H04W

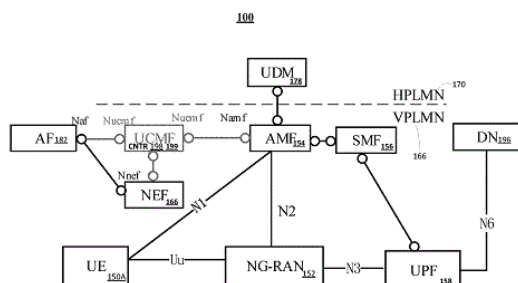
71: NOKIA TECHNOLOGIES OY

72: CASATI, Alessio

54: OPTIMIZED USER EQUIPMENT CAPABILITIES SIGNALING INCLUDING RECOVERY FROM DATABASE FAILURE

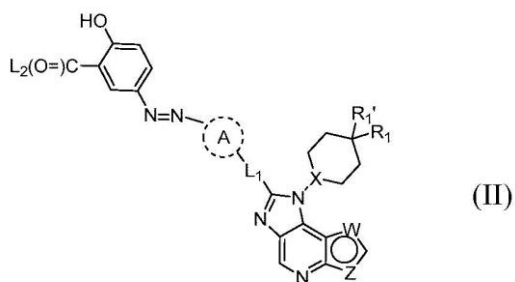
00: -

Methods and apparatus, including computer program products, are provided for UE capability signaling. In some example embodiment, there may be provided an apparatus including caused to at least: receive, from a user equipment capability management function, a message including a first restart counter value indicating a restart of the user equipment capability management function; inhibit, in response to receiving the first restart counter value, one or more old user equipment capability identifiers associated with a second restart counter value, the second restart counter value being associated to a pre-restart state of the user equipment capability management function; and send the first restart counter value indicating the restart of the user equipment capability management function. Related systems, methods, and articles of manufacture are also described.



21: 2025/02528. 22: 2025/03/24. 43: 2025/09/29
 51: A61K; A61P; C07D
 71: E-nitiate Biopharmaceuticals (Hangzhou) Co., Ltd
 72: LIU, Pengfei, SHEN, Wang, BAI, Rujun, DING, Yue, DING, Shizhe
 33: PCT(CN) 31: 2022/114802 32: 2022-08-25
54: PRODRUG OF JAK KINASE INHIBITOR
 00: -

The present invention relates to a prodrug containing a JAK inhibitor, a composition, and use thereof. In particular, the present invention relates to a compound represented by formula (II), a pharmaceutical composition containing the compound of the present invention, and use thereof as a JAK inhibitor prodrug in treating inflammatory diseases and tumor-related diseases.



21: 2025/02606. 22: 2025/03/26. 43: 2025/10/02
 51: G01N
 71: Eli Lilly and Company
 72: CHAI, Xiyun, CHEN, Jinbiao, DAGE, Jeffrey L., DRIVER, David Albert, HINTON, Steven Fisher, SIEGEL, Robert William II, VAILLANCOURT, Peter Edward
 33: US 31: 62/855,331 32: 2019-05-31
54: COMPOUNDS AND METHODS TARGETING HUMAN TAU
 00: -

The present invention provides compounds and methods targeting human tau, particularly human tau

phosphorylated at threonine (217) and isoforms of tau expressed only in the CNS, including therapeutic antibodies, pharmaceutical compositions and diagnostic applications useful in the field of neurodegenerative diseases such as AD, PSP and FTD.

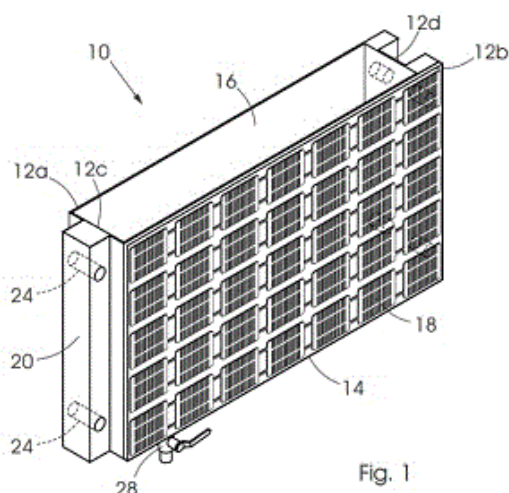
21: 2025/02648. 22: 2025/03/27. 43: 2025/10/02
 51: B22F
 71: CHENGDU B-TO-O SUPERHARD MATERIALS CO., LTD.
 72: YANG, BINWEI
 33: CN 31: 202510188859.8 32: 2025-02-20
54: EXTREMELY THIN DIAMOND COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF
 00: -

The present application relates to the field of diamond materials and specifically discloses an extremely thin diamond composite material and a preparation method thereof. An extremely thin diamond composite material includes a diamond micro powder, a composite binder including 60-80% of zirconia and 20-40% of polyimide, and a cemented carbide substrate, wherein the amount of the composite binder used is 8-12% of the mass of the diamond micro powder. The method includes: mixing a diamond micro powder with a composite binder, placing a cemented carbide substrate into a mold, and stacking the diamond micro powder containing the composite binder on one side of the cemented carbide substrate at a stacking thickness of 2-3 mm; and subjecting the mold to heating and sintering by using a pulse current at a pressure of 4-5 GPa and a sintering temperature of 700-900°C to obtain the extremely thin diamond composite material. The extremely thin diamond composite material of the present application solves the problems of low processing efficiency and easy wear of existing extremely thin polycrystalline diamond composite materials.

21: 2025/02651. 22: 2025/03/27. 43: 2025/10/31
 51: E04C; H02S
 71: CAPE PENINSULA UNIVERSITY OF TECHNOLOGY (CPUT)
 72: PALLAV, KUMAR, MOKOMELE, KEAMOGETSE BRIDGET, RAJI, ATANDA
 33: ZA 31: 2024/02446 32: 2024-03-27
54: WATER-ENERGY NEXUS BUILDING PANEL

00: -

The invention relates to a water-energy nexus building panel designed to enhance water collection and energy generation. The panel features a water-containing cavity formed by side and bottom walls, with an opening for rainwater collection. Solar panels are attached to one of the side walls. The panel includes male and female holding formations on opposite ends, allowing adjacent panels to interlock securely. A fluid outlet with a removable tap allows water retrieval, and an internal connecting pipe links the water cavities of adjacent panels. A valve in the internal connecting pipe ensures sealing when not connected to another panel.



21: 2025/02659. 22: 2025/03/27. 43: 2025/10/02

51: A45F; B65D

71: FFX Tech, LLC

72: BEHNIA, Kia

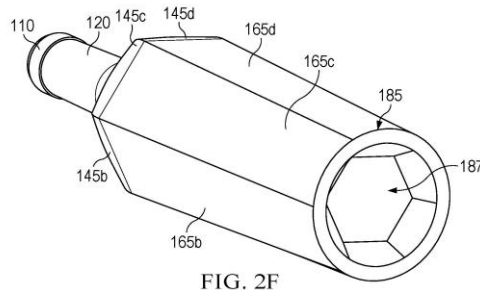
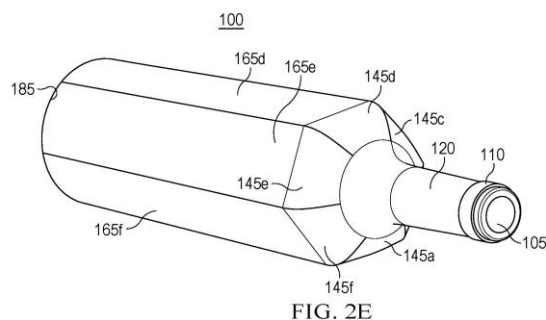
33: US 31: 63/402,155 32: 2022-08-30

54: HIGH-PACK DENSITY MULTI-FACETED BOTTLE WITH ROUND BASE

00: -

A multi-faceted transition bottle with round base provides a high-pack density design that is optimized for safe and efficient packing, transporting, and shipping while maintaining compatibility with existing filling, corking, and labeling equipment. The multi-faceted transition bottle includes a multi-faceted body portion and a round base portion. The multi-faceted body portion includes a seamless transition from the facets to the round base portion. The multi-faceted transition bottle is not only stronger but lighter than conventional bottles. The multi-faceted

transition bottle enables more efficient packaging that relies on the faceted portion of the bottle design to increase packing density and structurally strengthen the package, thereby reducing packaging waste and reducing the dimensional size and weight of packages. Advantageously, the multi-faceted transition bottle reduces the carbon footprint associated with packing, shipping, transporting, and storing bottles by reducing bottle weight and dimensional size, reducing excess packaging, enhancing pack density, and reducing fuel costs.



21: 2025/02660. 22: 2025/03/27. 43: 2025/10/02

51: G21C

71: Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.

72: LI, Lei, ZHU, Ziqiang, LIU, Runfa, MAO, Fei, ZHU, Xuefeng, TANG, Weihua, LIN, Shaoxuan, SHAO, Changlei, WENG, Chenyang, LIU, Jianwen, REN, Wenjun, LIU, Yongjun, WU, Wei, HUANG, Shangqing, LI, Mengzhi

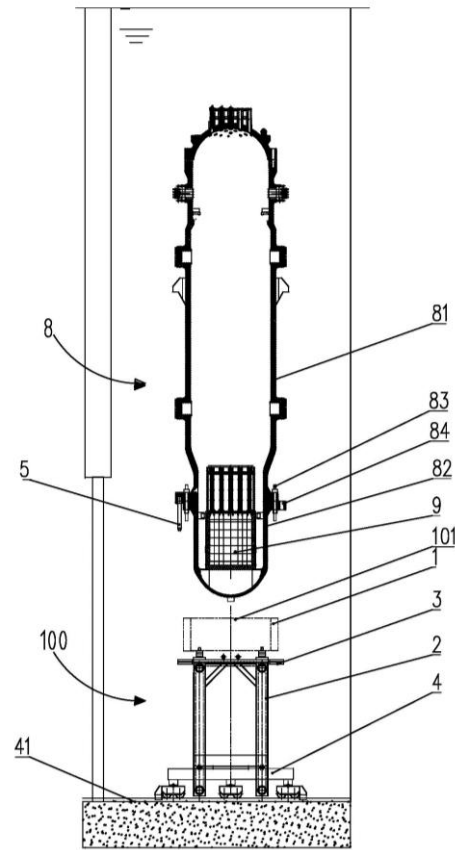
33: CN 31: 202211138104.X 32: 2022-09-19

54: REACTOR FUEL-LOADING AND REFUELING SYSTEM AND METHOD

00: -

Provided are a reactor charging and refueling system (100) and a reactor charging and refueling

method, which performs charging and refueling operations on a reactor pressure vessel (8) having a cover capable of being opened downwards. The system comprises: a component of bolt operating device and pallet (1), a lifting device (2), an attitude adjusting device (3) and a transfer device (4), wherein the component of bolt operating device and pallet (1), the lifting device (2), the attitude adjusting device (3) and the transfer device (4) are located underwater in a reactor core pool; the attitude adjusting device (3) is arranged on top of the lifting device (2); the component of bolt operating device and pallet (1) is connected to the attitude adjusting device (3); the lifting device (2) is fixedly connected to the transfer device (4); and the transfer device (4) can carry the lifting device (2), and the attitude adjusting device (3) and the component of bolt operating device and pallet (1) that are installed on the lifting device (2) so as to be movable in a horizontal direction. With the reactor charging and refueling system (100) and the charging and refueling method, the problems in the existing nuclear reactor refueling technology of a long path and high difficulty in disassembly and assembly are solved, thereby shortening the path and reducing the difficulty in disassembly and assembly.



21: 2025/02698. 22: 2025/03/28. 43: 2025/10/21

51: H02J; H02M; H02P

71: PAUL, BASIL WAYNE LOUIS LANYON

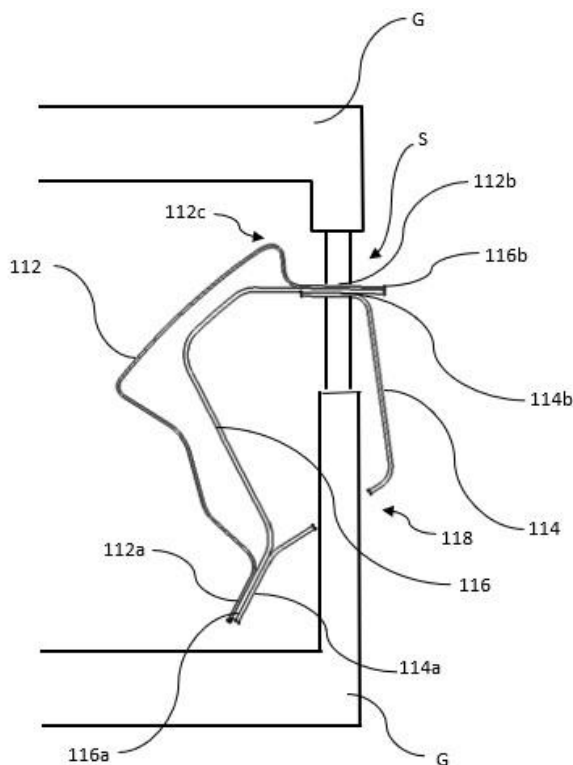
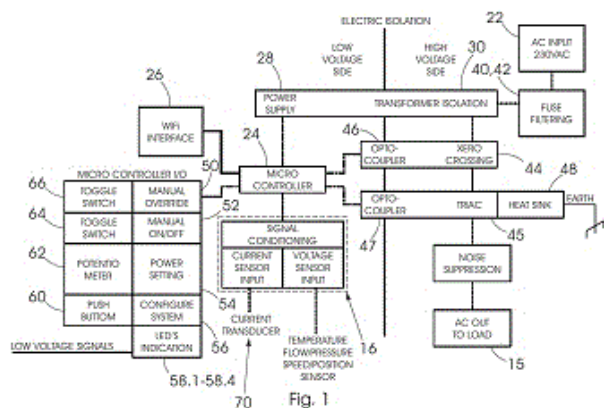
72: PAUL, BASIL WAYNE LOUIS LANYON

54: A POWER CONTROLLER

00: -

A power controller for AC (alternating current) loads. The power controller includes a communication module which is configured to receive control instructions from/via a communication network or communication link, and a power control module which has an output which is, in use, connected to an AC load. The power control module is configured to adapt or vary an output power of the output based on the received control instructions by utilising or implementing phase control. The power controller may include a feedback arrangement which is configured to measure one or more parameters which relate to the operation of a load. The power controller may include an isolator arrangement which is configured to electrically isolate a high-voltage side of the power controller and a low-voltage side. The power controller may include an override switch

which, if selected, is configured to override the received control instructions.



21: 2025/02743. 22: 2025/03/31. 43: 2025/10/08

51:

71: MAHINDRA & MAHINDRA LIMITED

72: ATTAR, Arifulla, VASU, Sugan, S, Sakthivel, B KUMAR, Uthish

33: IN 31: 202441056707 32: 2024-07-25

54: A FRONT PILLAR FOR A VEHICLE

00: -

The present invention relates to a front pillar (110) for a vehicle (100). The front pillar (110) includes a lower pillar portion (110a) and an upper pillar portion (110b). The upper pillar portion (110b) is configured to support a windshield (W) of the vehicle (100). The upper pillar portion (110b) includes an inner panel having a panel member (114) having opposing mating flanges (114a, 114b), one of the opposing mating flanges (114b) is bent inwardly and in a direction away from the windshield (W) of the vehicle (100). The upper pillar portion (110b) includes an outer panel with mating flanges (112a, 112b). A portion of one of the mating flange (112b) being bent inwardly and extending in the direction towards the windshield (W) of the vehicle (100) and being parallel to one of the opposing mating flange (114b) of the panel member (114). Reference Figure 3

21: 2025/02821. 22: 2025/04/02. 43: 2025/10/23

51: C07K; C12N

71: Krystal Biotech, Inc.

72: KRISHNAN, Suma, PARRY, Trevor, PREVITE, Dana Michelle, DUERMAYER, Mary Jane

33: US 31: 63/170,103 32: 2021-04-02

54: VIRAL VECTORS FOR CANCER THERAPY

00: -

The present disclosure provides recombinant nucleic acids comprising one or more polynucleotides encoding an immunomodulatory polypeptide (e.g., a pro-inflammatory cytokine such as a human IL- 2 or IL- 12 polypeptide); viruses comprising the recombinant nucleic acids; compositions and formulations comprising the recombinant nucleic acids and/or viruses; methods of their use (e.g., for the treatment of cancer, such as lung cancer); and articles of manufacture or kits thereof.

21: 2025/02822. 22: 2025/04/02. 43: 2025/10/23

51: C07K; C12N

71: Krystal Biotech, Inc.

72: KRISHNAN, Suma, PARRY, Trevor, PREVITE, Dana Michelle, DUERMAYER, Mary Jane

33: US 31: 63/170,103 32: 2021-04-02

54: VIRAL VECTORS FOR CANCER THERAPY

00: -

The present disclosure provides recombinant nucleic acids comprising one or more polynucleotides encoding an immunomodulatory polypeptide (e.g., a pro-inflammatory cytokine such as a human IL-2 or IL-12 polypeptide); viruses comprising the recombinant nucleic acids; compositions and formulations comprising the recombinant nucleic acids and/or viruses; methods of their use (e.g., for the treatment of cancer, such as lung cancer); and articles of manufacture or kits thereof.

21: 2025/02830. 22: 2025/04/02. 43: 2025/10/23
51: B60R; F16B

71: RHINO RACK AUSTRALIA PTY LIMITED

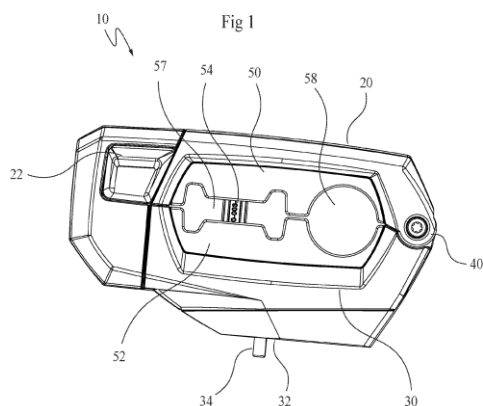
72: LYNCH, Oliver, ALFAHRANY, Tarek

33: AU 31: 2022903073 32: 2022-10-19

54: AN ITEM CARRYING BRACKET FOR USE IN RETAINING AN ITEM ON A MOTOR VEHICLE

00: -

An item carrying bracket for use in retaining an item on a motor vehicle is disclosed including: first and second bracket members; the bracket members are joined at a hinge and can rotate with respect to one another between a closed condition and an open condition; in the open condition an item to be carried may be introduced between the bracket members; in the closed condition the bracket members surround and retain the item; and the bracket includes a dampening mechanism which dampens the movement of the bracket members from the closed condition to the open condition; and wherein the resistance of the damping mechanism progressively increases as the bracket moves towards the open condition.



21: 2025/02831. 22: 2025/04/02. 43: 2025/10/23

51: A44B; B60P; B60R

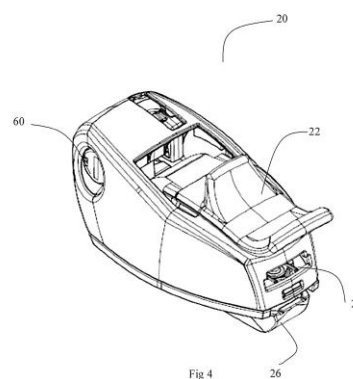
71: RHINO RACK AUSTRALIA PTY LIMITED

72: NGUYEN, Alexander

33: AU 31: 2022903185 32: 2022-10-27

54: AN ITEM CARRYING DEVICE FOR A VEHICLE
00: -

An item carrying device for a vehicle is described, the device including: a strap which is provided with a series of projections; and a ratcheting buckle; the buckle receives the strap and includes a ratcheting mechanism which is operable to engage with the projections to progressively draw the strap through the buckle and also to retain the strap in the buckle; the buckle further includes a release mechanism which is operable to release the strap from the buckle.



21: 2025/02846. 22: 2025/04/02. 43: 2025/10/23

51: A61K; A61P

71: DAEWOONG PHARMACEUTICAL CO., LTD.

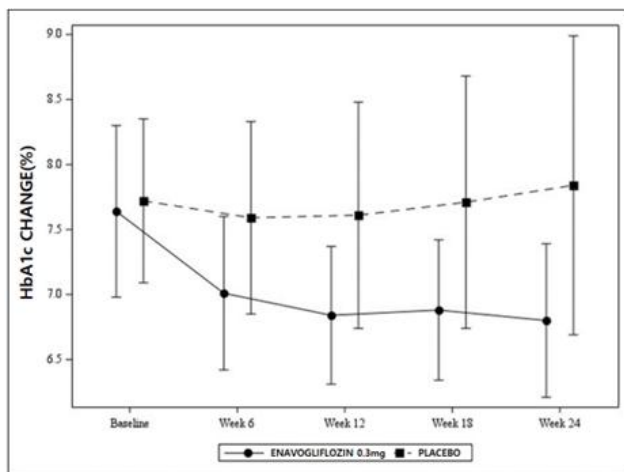
72: SONG, Hwa Rang, KIM, Young Hee, NAH, Jae Jin, HUH, Wan, CHO, Seung Ah, PARK, Mi Hee, LEE, Si Eun, KIM, Su Young, CHO, Bo Young, CHO, Jae Min, CHO, Seong In, CHOI, Ji-Soo, JI, Hye Young

33: KR 31: 10-2022-0127340 32: 2022-10-05

54: PHARMACEUTICAL COMPOSITION FOR PREVENTION OR TREATMENT OF NEPHROPATHY AND/OR DIABETES MELLITUS, COMPRISING ENAVOGLIFLOZIN

00: -

The present invention relates to a pharmaceutical composition comprising enavogliflozin as an active ingredient for the prevention or treatment of diabetes and/or renal diseases in patients who have or are at risk of diabetes and/or renal diseases.



21: 2025/02878. 22: 2025/04/03. 43: 2025/10/23

51: A61K; A61P

71: Qilu Pharmaceutical Co., Ltd.

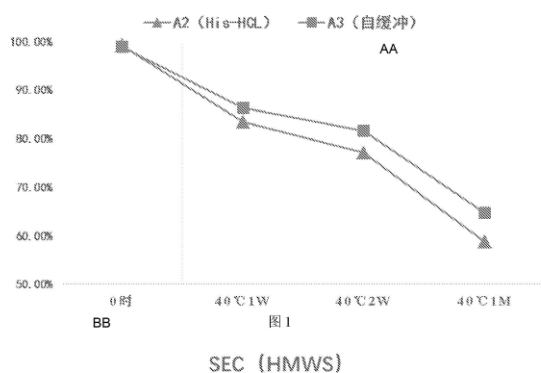
72: ZHANG, Le, LIU, Jun, AN, Zhenming, CONG, Riyuan, ZHOU, Bingbing, YANG, Chen, SUN, Lixia, WANG, Qingmin, ZHENG, Huanlan, WANG, Yatao

33: CN 31: 202211134160.6 32: 2022-09-16

54: STABLE HIGH-CONCENTRATION SELF-BUFFERING PHARMACEUTICAL COMPOSITION

00: -

Provided is a stable high-concentration self-buffering pharmaceutical composition, comprising a VEGF binding molecule, a stabilizer, a surfactant, and the like. The pH of the composition is 5.0-7.0. The pharmaceutical composition features no additionally added buffering agent, very high stability, convenient storage, and wide application prospects.



AA A3 (Self-buffering)
BB Time 0

21: 2025/02885. 22: 2025/04/03. 43: 2025/10/23

51: C10G; F01K; F22B; F22G

71: LINDE GMBH

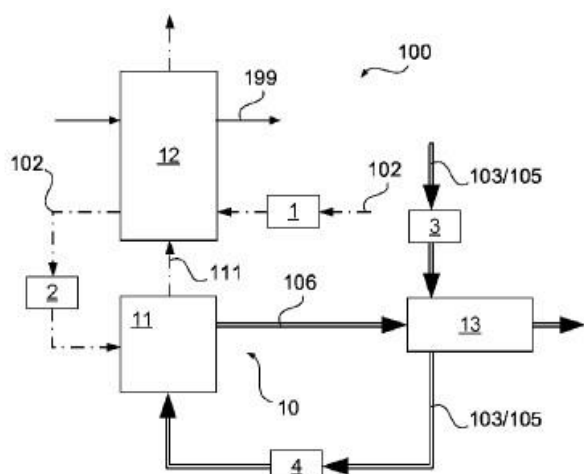
72: HELFENBEIN, Sebastian, ZELLHUBER, Mathieu, SINN, Tobias, HÖRENZ, Michael, FRITZ, Helmut

33: EP 31: 22020434.1 32: 2022-09-09

54: METHOD AND SYSTEM FOR STEAM CRACKING

00: -

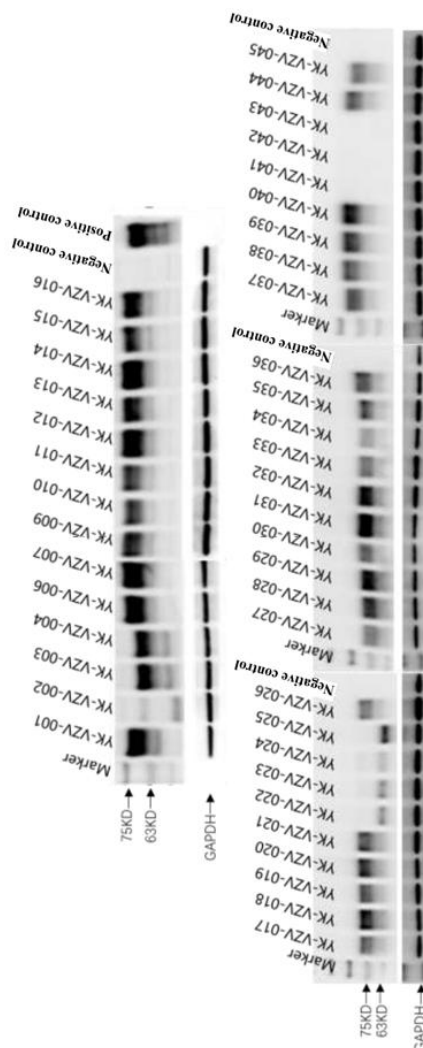
A method of steam cracking using a steam cracking system including one or more fired radiant sections is provided herein, wherein, during a steam cracking operation, a fuel is combusted with oxidizer gas to heat the one or more fired radiant sections, forming a flue gas, a process gas is formed using a hydrocarbon feed and process steam, and the process gas is passed through one or more coils in the one or more fired radiant sections, forming a cracked gas, wherein at least a part of the flue gas is cooled in a flue gas heat recovery section, wherein at least a part of the cracked gas is cooled in a cracked gas heat recovery section, wherein the flue gas heat recovery section and the cracked gas heat recovery section each comprise one or more multistream heat exchangers. The flue gas heat recovery section comprises heat exchange structures which are provided in an amount and a configuration such as to use, at least during a part of the steam cracking operation, a first proportion of more than 35% of a total amount of heat recovered within the one or more multistream heat exchangers of the flue gas heat recovery section from the flue gas for preheating at least a part of the oxidizer gas, and wherein the cracked gas heat recovery section is configured such as to use, at least during the same part of the steam cracking operation, a second proportion of more than 35% of a total amount of heat recovered within the one or more multistream heat exchangers of the cracked gas heat recovery section for preheating at least a part of the process gas and/or the hydrocarbon feed and/or the process steam. A corresponding system is also part of the present invention.



21: 2025/02890. 22: 2025/04/04. 43: 2025/10/23
 51: C12N
 71: HANGZHOU TIANLONG PHARMACEUTICAL CO., LTD.
 72: SONG, Gengshen, DONG, Kai, CHEN, Zhongbin, LI, Yanfen, ZHOU, Yuting, LI, Jing, CHAI, Xin, GAO, Zhongcai, ZHANG, Jinyu, WANG, Huanyu
 33: CN 31: 2024106599960 32: 2024-05-27
54: HERPES ZOSTER MRNA VACCINE, PREPARATION METHOD THEREFOR, AND USE THEREOF

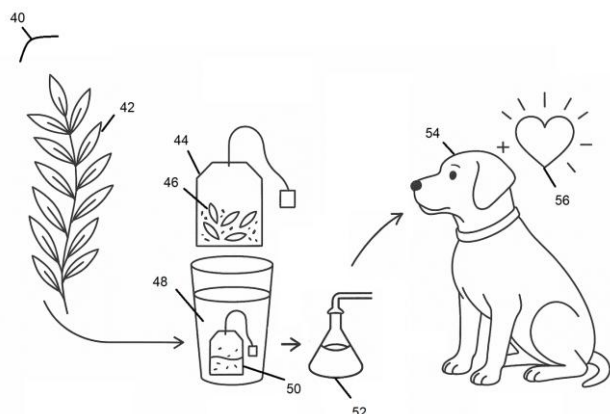
00: -

The present disclosure belongs to the technical field of mRNA vaccines, and specifically relates to a herpes zoster mRNA vaccine, a preparation method therefor, and a use thereof. The herpes zoster mRNA vaccine provided by the present disclosure comprises an RNA encoding a varicella-zoster virus gE glycoprotein or a variant thereof. The vaccine can prevent herpes zoster infection and its complications.



21: 2025/02894. 22: 2025/04/04. 43: 2025/10/23
 51: A61K
 71: INNOVAPOWER (PTY) LTD
 72: VILJOEN, Ronald Barry
54: AN ORAL COMPOSITION FOR ANIMALS
 00: -

The present invention relates to an oral composition for animals.



21: 2025/02895. 22: 2025/04/04. 43: 2025/12/04
51: E21C

71: BOOII INDUSTRIES (PTY) LTD

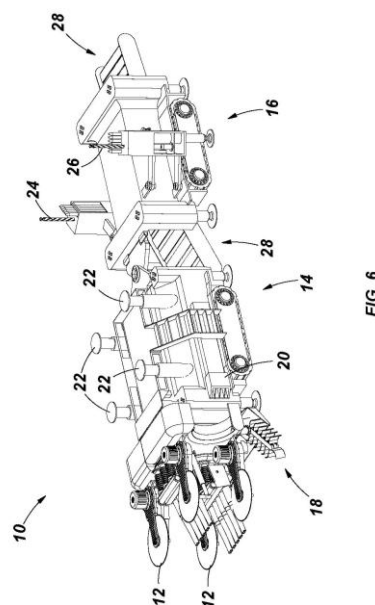
72: BOOI, Delisile Mackdonald, MASHININI,
Wandile Solomon

33: ZA 31: 2024/02607 32: 2024-04-04

**54: INTEGRATED UNDERGROUND MINING
SYSTEM WITH OSCILLATING
POLYCRYSTALLINE DIAMOND CUTTERS AND
ADAPTIVE OPERATIONAL CAPABILITIES**

00: -

The invention relates to a mining system for cutting and breaking underground rock formations includes oscillating polycrystalline diamond (PCD) cutters for dynamic rock engagement, with interchangeable high-pressure water cutters for adaptability. The system employs asymmetrical bulkheads, rotatable and vertically actuated via hydraulic arms, to adjust cutting and breaking actions based on geological conditions. A Geological Guidance System (GDAP) with binary-image processing and laser sensors enables real-time 3D geological modeling for precise navigation. Hydraulic rock breakers and percussive wedge bits further fragment cut rock, while an articulated conveying system removes debris. Environmental controls, including dust intakes and roof supports, enhance safety and air quality. A corresponding method involves cutting rock with oscillating PCD cutters, adjusting bulkhead action, utilizing GDAP for navigation, breaking rock with hydraulic tools, and clearing debris via the conveying system. The invention integrates advanced technology for efficient, adaptable, and safe underground mining operations.



21: 2025/02908. 22: 2025/04/04. 43: 2025/10/23
51: C06B; E21D; F15D; F16L; F42D

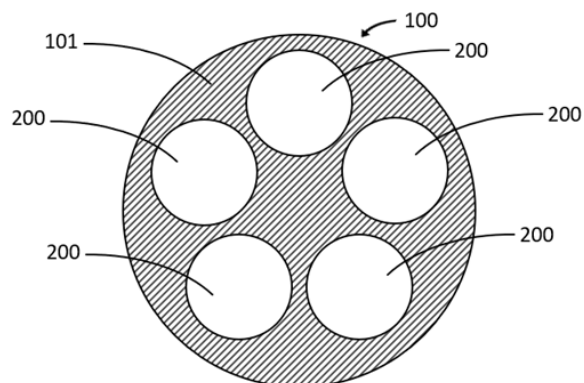
71: ENAEX SERVICIOS S.A.

72: BARRIGA MELGAREJO, Jonhatan Octavio,
LARA MARRO, Gloria del Pilar

**54: HOSE DEVICE FOR SIMULTANEOUSLY
TRANSPORTING MULTIPLE ELEMENTS
SEPARATELY**

00: -

Described is a multipurpose hose that reduces the time needed to charge blastholes, which comprises multiple inner conduits into which signal cables, a power supply, probes and inspection sensors are introduced, and which also allows different fluids, such as air, water and emulsions, to be injected separately. In addition, the hose allows various components for producing explosive emulsions to be transported separately and only combines them when they are introduced into the blasthole, at the outlet of the hose.



21: 2025/02920. 22: 2025/04/07. 43: 2025/10/23
51: A63B

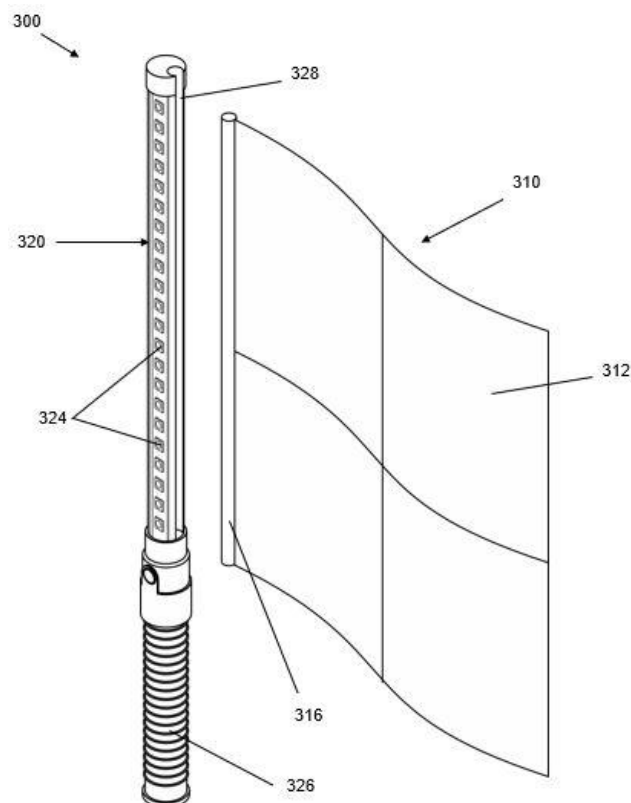
71: DE SWARDT, Wouter

72: DE SWARDT, Wouter

54: HANDHELD REFEREE SIGNALING DEVICE

00: -

A handheld referee signalling device is disclosed. The device includes a housing incorporating a light emitting element for visually indicating a referee sign. The housing is configured to receive a portion of a referee flag such that a fabric section of the referee flag is operatively exposed during use. The housing includes a gripping portion to accommodate a user's hand when holding the housing, and a grasping mechanism configured to secure the portion of the referee flag within the housing.



21: 2025/02922. 22: 2025/04/07. 43: 2025/12/04
51: C02F; G06N

71: Aparna K G, R Swarnalatha, J. Angel Arul Jothi

72: Aparna K G, R Swarnalatha, J. Angel Arul Jothi

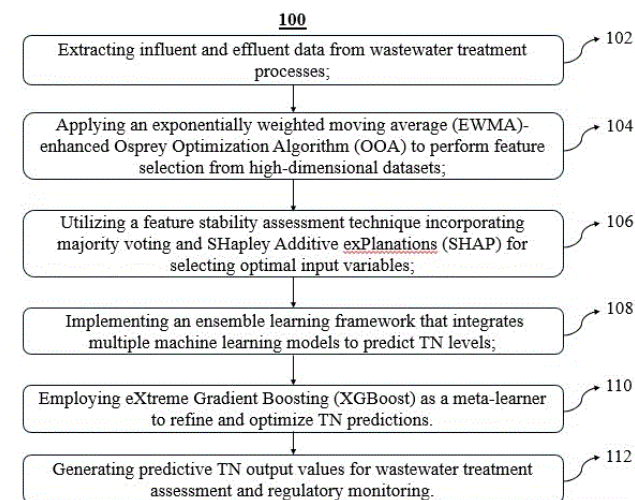
33: IN 31: 202541023126 32: 2025-03-15

54: A METHOD FOR PREDICTING TOTAL NITROGEN LEVELS IN WASTEWATER USING OPTIMIZED MACHINE LEARNING

00: -

The present disclosure relates to a method (100) for predicting total nitrogen (TN) levels in wastewater treatment plants (WWTPs) using an optimized machine learning-based framework. The method involves extracting influent and effluent data from wastewater treatment processes (102) and applying an exponentially weighted moving average (EWMA)-enhanced Osprey Optimization Algorithm (OOA) for feature selection (104). A feature stability assessment technique, integrating majority voting and SHapley Additive exPlanations (SHAP), is used to refine and select optimal input variables (106). An ensemble learning framework is implemented, incorporating machine learning models such as Random Forest, Gradient Boosting Machine, Support Vector Machine, and K-Nearest Neighbors

(108). A meta-learning approach using eXtreme Gradient Boosting (XGBoost) is employed to aggregate and optimize predictions (110). The method enhances accuracy and interpretability in TN level estimation, facilitating real-time wastewater monitoring, process optimization, and regulatory compliance (112).



21: 2025/02930. 22: 2025/04/07. 43: 2025/10/24

51: C07D; A61K; A61P

71: XIZANG HAISCO PHARMACEUTICAL CO., LTD.

72: ZHANG, CHEN, HE, PING, WANG, LE, XUAN, ZHAOLI, WEI, QI, TANG, PINGMING, HE, HAIQING, ZHONG, YAJUN, YU, YAN, LI, YAO, NI, JIA, YAN, PANGKE

33: CN 31: 202211104699.7 32: 2022-09-09

33: CN 31: 202310000075.9 32: 2023-01-05

33: CN 31: 202310900169.1 32: 2023-07-21

33: CN 31: 202310157111.2 32: 2023-02-23

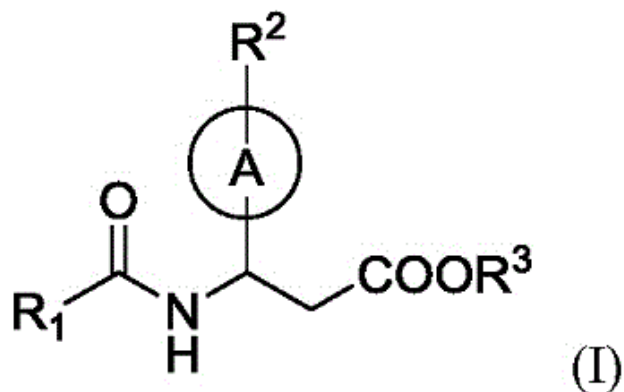
33: CN 31: 202211391154.9 32: 2022-11-11

33: CN 31: 202310546078.2 32: 2023-05-16

54: PROPIONIC ACID DERIVATIVE AND USE THEREOF IN MEDICINE

00: -

A compound of general formula (I) or a stereoisomer, mesomer/racemate, deuterated product, solvate, prodrug, metabolite, pharmaceutically acceptable salt, or co-crystal thereof, an intermediate thereof, a preparation method therefor, and a use in the preparation of a drug for treating diseases related to integrin $\alpha 4\beta 7$ activity or expression.



21: 2025/02960. 22: 2025/04/08. 43: 2025/10/24

51: G06F

71: CGNPC URANIUM RESOURCES CO., LTD

72: DONG WENMING, WANG RENBO, CAI

XINGQI, HAO JINGLONG, ZHANG XIONGJIE,

CHEN RUI, CHEN NING, LIU YULONG, QIN

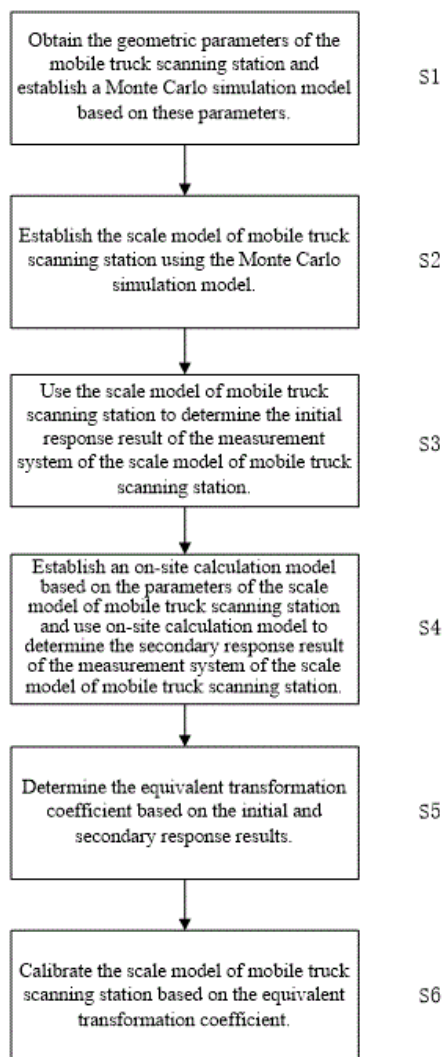
CHAOFEI, DENG HONGZE, CHEN HONGZHANG

54: METHOD AND DEVICE FOR ESTABLISHING AND CALIBRATING THE SCALE MODEL OF MOBILE TRUCK SCANNING STATION

00: -

The present invention discloses a method and device for establishing and calibrating the scale model of mobile truck scanning station. The method includes the following steps: first, obtaining the dimensional parameters of the mobile truck scanning station and establishing a Monte Carlo simulation model based on these parameters; secondly, establishing the scale model of mobile truck scanning station of the mobile truck scanning station through the Monte Carlo simulation model; then using the scale model of mobile truck scanning station to determine the first response result of the measurement system of the scale model of mobile truck scanning station; establishing an on-site calculation model based on the parameters of the scale model of mobile truck scanning station, and using the on-site calculation model to determine the second response result of the measurement system of the scale model of mobile truck scanning station; finally determining the equivalent transformation factor based on the first response result and the second response result, and calibrating the scale model of mobile truck scanning station based on the equivalent transformation factor. This method can solve the problem of low accuracy in the calibration

results of ore grade assessment systems in existing technologies.



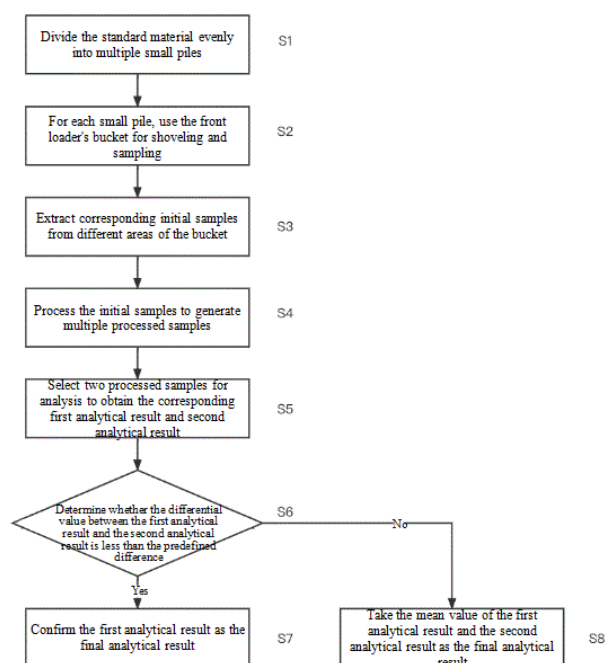
21: 2025/02961. 22: 2025/04/08. 43: 2025/10/24
 51: G01N
 71: CGNPC URANIUM RESOURCES CO., LTD
 72: CHEN NING, RONG JIANFENG, CAI XINGQI,
 QIN CHAOFEI, LIU YULONG, DENG HONGZE,
 CHEN HONGZAHNG

54: METHOD AND DEVICE FOR ORE GRADE ASSESSMENT

00: -

The present invention discloses a method and device for ore grade assessment, which includes: evenly separating standard material into multiple small piles; for each small pile, using the bucket of a front loader to perform sampling; then extracting corresponding initial samples from different regions of the bucket; processing the initial samples to

generate multiple processed samples; selecting two of the processed samples for analysis to obtain the first analytical result and the second analytical result; determining whether the differential value between the first analytical result and the second analytical result is less than a predefined difference; if it is less, confirming the first analytical result as the final analytical result; if it is greater, using the mean value of the first analytical result and the second analytical result as the final analytical result. Through this method and device, the accuracy of calibration results is improved, and by segmental fitting, calibration factors are obtained, enhancing the accuracy of measurement at scanning stations in low-grade intervals.



21: 2025/02980. 22: 2025/04/08. 43: 2025/10/24
 51: A61F

71: RUGAO WEN NUO MEDICAL TECHNOLOGY CO., LTD.

72: CAI, CHENGPING, LIU, SHULONG

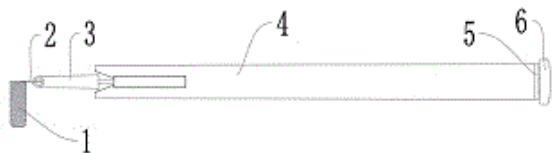
33: CN 31: 202211613159.1 32: 2022-12-15

54: CATARACT SURGICAL INSTRUMENT

00: -

The present disclosure relates to the technical field of medical surgical instruments, and particularly, to a cataract surgical instrument. The cataract surgical instrument comprises a guide tube (3), a deformation member (2), and a net bag (1). An end

portion of the guide tube (3) is provided with an opening (31) in communication with an inner cavity (35) of the guide tube (3). The deformation member (2) comprises a deformation part (21) and a connecting part (22) that is connected to the deformation part (21). The connecting part (22) is arranged through the inner cavity (35) and can move in the axial direction of the guide tube (3). The net bag (1) is connected to the deformation part (21). The connecting part (22) drives the deformation part (21) and the net bag (1) to move in the axial direction of the guide tube (3), such that the deformation part (21) and the net bag (1) retract into the inner cavity (35) or expand out of the inner cavity (35). By mechanically and centripetally cutting the crystalline lens, the cataract surgical instrument causes no thermal damage to intraocular tissues and is less prone to damaging the posterior capsule, zonules, and corneal endothelium. The instrument also features short operation duration, high efficiency, small surgical incisions, minimal discomfort, rapid recovery, ease to operate, and cost-efficiency, and avoids various disadvantages associated with ultrasonic vibration.



21: 2025/03037. 22: 2025/04/10. 43: 2025/10/24
51: A61K
71: INBRAIN PHARMA, UNIVERSITE DE LILLE, CENTRE HOSPITALIER UNIVERSITAIRE DE LILLE, INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE
72: ODOU, Pascal, DEVOS, David, DEMAILLY, Alexandre, FISICHELLA, Matthieu
33: EP 31: 22306352.0 32: 2022-09-14
54: PHARMACEUTICAL INJECTABLE SOLUTION COMPRISING DOPAMINE

00: -
The present disclosure relates to a pharmaceutical injectable solution comprising dopamine or a pharmaceutically acceptable salt thereof, preferably dopamine hydrochloride, dissolved in water for injection, wherein the solution has a pH between 3.0 and 5.5, and has an oxygen content equal to or lower than 0.008% (8 ppm), and uses thereof.

21: 2025/03043. 22: 2025/04/10. 43: 2025/11/07
51: B03B

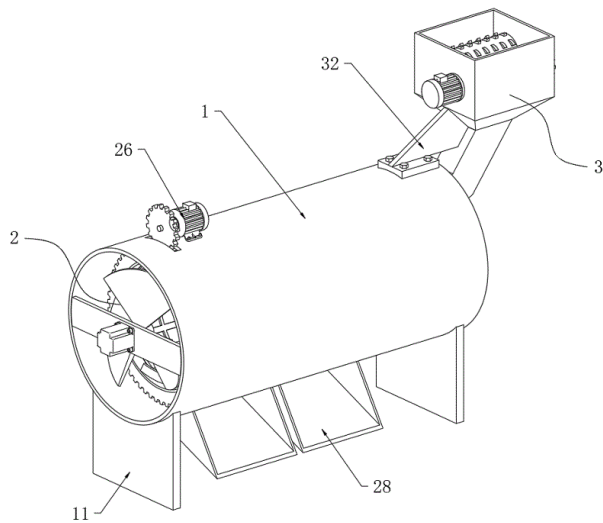
71: Wuhu Institute of Technology

72: Lu Yufen, Zhuang Huaxia, Jiang Weijun, Li Yao

54: A KIND OF CONSTRUCTION WASTE RECYCLING TREATMENT DEVICE

00: -

The present invention discloses a construction waste recycling and treatment device, relates to the technical field of construction waste treatment, including a fixed cylinder and a screening mechanism, said fixed cylinder is transverse and connected with two symmetrically distributed support feet on the outer cylinder wall, said fixed cylinder is provided with a crushing mechanism for crushing construction waste at one end of said fixed cylinder. Said screening mechanism is installed in the stationary cylinder and is used to screen the crushed construction waste to separate wood and plastic from the concrete blocks and masonry, said screening mechanism includes a screening cylinder and a first motor, said screening cylinder has two symmetrically distributed ring guides coaxially connected to the outer cylinder wall. The present invention is provided with a screening mechanism, which realizes efficient screening of wood and plastic in the construction waste by first crushing the construction waste with multiple materials adhering to one body, and utilizing the characteristic of lighter individual objects after crushing of wood and plastic, and applying a unidirectional wind flow to blow away the lighter wood and plastic in the process of falling of construction waste, so as to realize efficient screening of wood and plastic in the construction waste.



21: 2025/03052. 22: 2025/04/10. 43: 2025/10/27
51: E04F

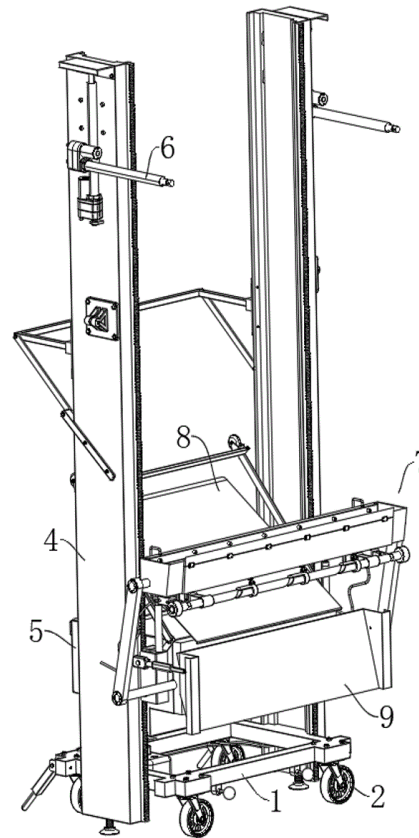
71: Wuhu Institute of Technology

72: Zhuang Huaxia, Lu Yufen, Li Yao, Jiang Weijun

54: AN INTELLIGENT BUILDING PAINTING DEVICE

00: -

The present invention discloses an intelligent building painting device, relating to the technical field of building painting, the device includes a base, universal wheels, a guide rail frame, and a cleaning assembly, said base has two symmetrical guide rail frames fixedly connected to the upper surface of said base, a lifting box slidably provided between the guide rails of two said guide rail frames, said lifting box has a plastering plate movably provided on the side wall, said lifting box has a loading plate rotationally connected to the upper surface of said lifting box via a pin. Said loading plate is driven by an electric actuator located in the lifting box, and gears are rotationally provided on the outer side wall of said lifting box by means of a spindle. By means of the cleaning assembly, the present invention makes the scraper clean the raised small stones on the wall while the device is being plastered, and when the plaster layer dries and shrinks, it effectively avoids the easy formation of a stress concentration point around the small stones, which leads to the mortar shrinking to a different extent than the rest and produces a crack, and improves the plastering effect of the device.



21: 2025/03091. 22: 2025/04/11. 43: 2025/10/16
51: G06Q

71: MNTHALI, Bado, Mtazama, Jembemziro

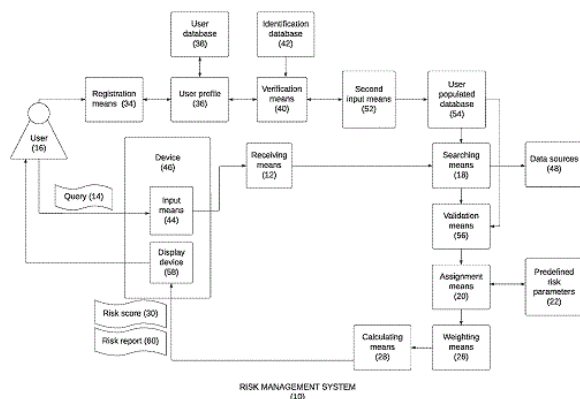
72: MNTHALI, Bado, Mtazama, Jembemziro

33: ZA 31: 2022/11087 32: 2022-10-11

54: A RISK MANAGEMENT SYSTEM

00: -

A risk management system (10) including a receiving means (12) for receiving a query (14) from a user (16), a searching means (18) for searching for and retrieving data relating to the query (14), an assignment means (20) for assigning predefined risk parameters (22) to the query (14) based on a subject of the query (14), a filtering means (24) for filtering the retrieved data based on the assigned risk parameters in order to isolate the data most relevant to the risk parameters, a weighting means (26) for weighting the filtered data, and a calculating means (28) for calculating a risk score (30) based on the weighted data



21: 2025/03125. 22: 2025/04/14. 43: 2025/10/28
51: A01H

71: Gansu Qilian Mountain National Nature Reserve Management Center (Giant Panda Qilian Mountain National Park Gansu Province Administration Zhangye Branch)

72: Cai Liang, Zhang Xinhua, Ma Ruhua

33: CN 31: 2025101800587 32: 2025-02-18

54: A METHOD FOR SELECTING AND BREEDING FOREST-UNDERSTORY COLD-RESISTANT TRADITIONAL CHINESE MEDICINAL HERB VARIETIES

00: -

The invention discloses a method for selecting and breeding a forest-understory cold-resistant traditional Chinese medicinal herb variety, comprising the following steps: S1. Selecting a traditional Chinese medicinal herb seed sample for sowing and raising seedlings; S2. Selecting seedlings with uniform growth and no disease or damage, dividing the seedlings into two groups, subjecting a group of seedlings to a low-temperature stress treatment, and using another group of seedlings as a control group without low-temperature stress treatment; wherein the low-temperature stress treatment and the control treatment are both performed under dark conditions; S3. Measuring relevant physiological indexes of the seedlings after the low-temperature stress treatment and the control treatment respectively, and performing comparative analysis to screen and obtain the forest-understory cold-resistant traditional Chinese medicinal herb variety. The present application evaluates the cold resistance of traditional Chinese medicinal herbs based on physiological indexes, and screens and obtains the forest-understory traditional Chinese medicinal herb variety with excellent cold resistance in cold regions,

so as to provide excellent germplasm resources for the development of the traditional Chinese medicinal herb industry. Compared with the prior art, the method has lower technical requirements, smaller investment cost, and shorter breeding cycle, and is suitable for large-scale promotion and application.

21: 2025/03136. 22: 2025/04/14. 43: 2025/10/28
51: G05B

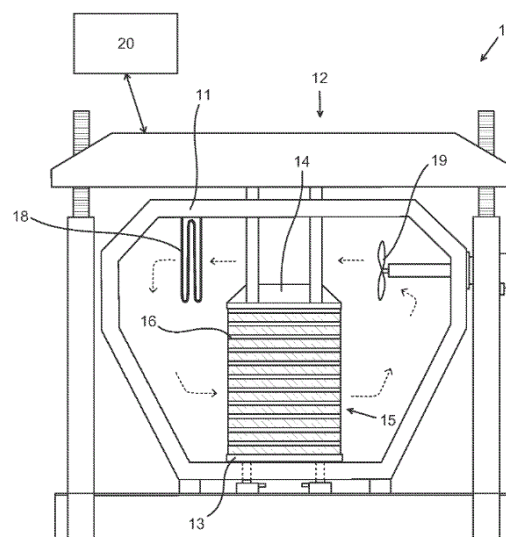
71: AVANT WOOD OY

72: RITVANEN, Pekka, LEHTINEN, Jyrki, PASANEN, Timo, SAYNEVIRTA, Kari, TERVO, Kari

54: METHOD AND APPARATUS FOR CONTROLLING A MODIFICATION PROCESS OF HYGROSCOPIC MATERIAL

00: -

Method and apparatus (10) for controlling a modification process of hygroscopic material (15) comprising method steps of: measuring at least one process variable from the modification process at least during the modification; measuring at least one process variable from the hygroscopic material at least during the modification; calculating at least one intermediate control parameter by a neural network by using at least the measured process variables as input parameters of the neural network; and controlling the modification process by using genetic algorithms and genetic programming based on the said at least one intermediate control parameter determined by the neural network.



21: 2025/03169. 22: 2025/04/14. 43: 2025/11/18

51: A61K; C07K

71: YANTAI LANNACHENG BIOTECHNOLOGY CO., LTD.

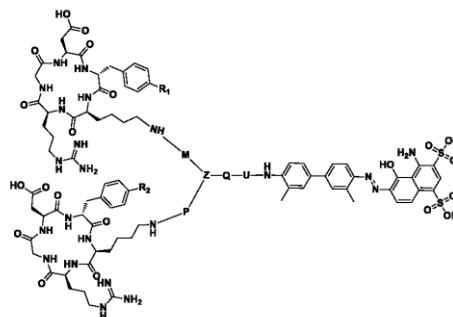
72: CHEN, Xiaoyuan, XU, Pengfei, WU, Xiaoming, GUO, Zhide, YANG, Qingbao, WEN, Xuejun

33: CN 31: 202211381979.2 32: 2022-11-07

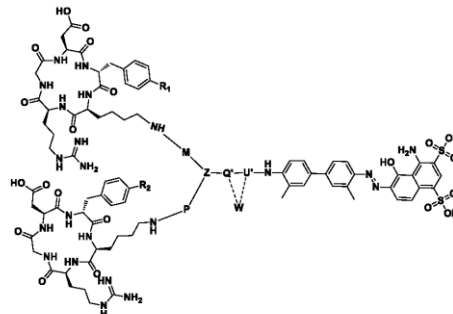
54: RGD DIMER COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF

00: -

The present invention provides an RGD dimer compound, a preparation method therefor and use thereof, and relates to the fields of nuclear medicine and molecular imaging. The RGD dimer compound has a structure shown in Formula (I) or Formula (I-1). The present invention further provides a radionuclide labeled compound with the RGD dimer compound shown in Formula (I-1) as a ligand, a pharmaceutical composition containing or composed of the RGD dimer compound, and a kit containing or composed of the RGD dimer compound or the pharmaceutical composition. The present invention further provides use of the RGD dimer compound or the pharmaceutical composition in diagnosis or treatment of diseases characterized by over-expression of an integrin $\alpha v \beta 3$. The RGD dimer compound and the radionuclide labeled compound of the present invention have higher tumor uptake and a longer retention time and are expected to be used in diagnosis or treatment of diseases characterized by over-expression of the integrin $\alpha v \beta 3$.



Formula (I)



Formula (I-1)

21: 2025/03170. 22: 2025/04/15. 43: 2025/10/29

51: B01J; C01B; H05H

71: CAPHENIA GMBH

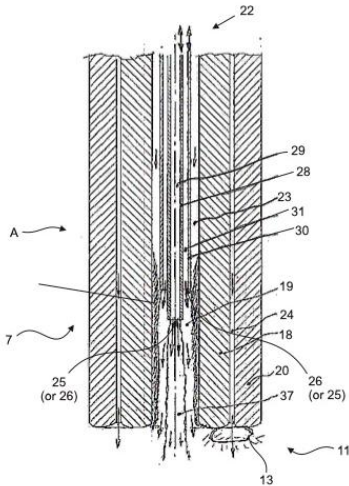
72: MYKLEBUST, Nils

33: DE 31: 10 2022 124 117.3 32: 2022-09-20

54: PLASMA REACTOR

00: -

A plasma reactor for decomposing a hydrocarbon fluid that can achieve long uninterrupted operating times is described. The plasma reactor comprises a reactor chamber and a plasma torch, the plasma torch being attached to a wall of the reactor chamber, extending into the reactor chamber, and having a free end. The plasma torch comprises an inner tubular electrode and an outer tubular electrode which at least partially surrounds the inner tubular electrode. A feed lance for dispensing hydrocarbon fluid is disposed within the inner tubular electrode and is displaceable relative to the tubular electrodes. The plasma reactor further comprises a plasma gas outlet for dispensing plasma gas disposed between the inner tubular electrode and the outer tubular electrode, and further comprises an oxidizing fluid outlet for dispensing oxidizing fluid, wherein the oxidizing fluid preferably comprises CO₂ or H₂O, and wherein the oxidizing fluid outlet is disposed within the inner tubular electrode.



21: 2025/03/19. 22: 2025/04/15. 43: 2025/10/29
51: H02S

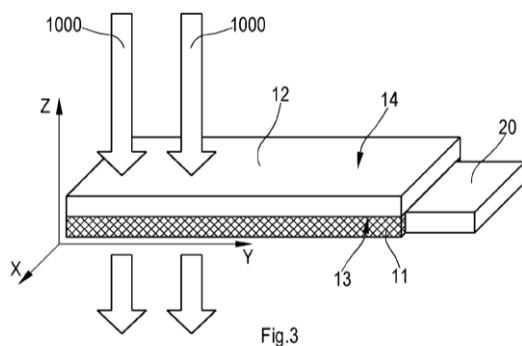
71: TURANO, Cosmo

72: TURANO, Cosmo, MANTOVANI, Elis

54: THERMAL ENERGY RECOVERY COVER PANEL TO PRODUCE ELECTRICITY

00: -

The present invention relates to modular metal panels for thermal energy recovery, with chamber and without chamber usable on buildings or on self-propelled mobile structures or on another kind of prefabricated or non-prefabricated structures, having a metal structure (11) acting as a support for at least a layer (12) of heat-conducting carbonaceous material, coupled to a thermoelectric converter capable of generating electrical energy on the basis of a thermal differential between a first and second surface of said at least one layer (12). The present invention also relates to a method of manufacturing said panels.



21: 2025/03/20. 22: 2025/04/16. 43: 2025/10/29
51: G06T

71: C.G.C UNIVERSITY, MOHALI

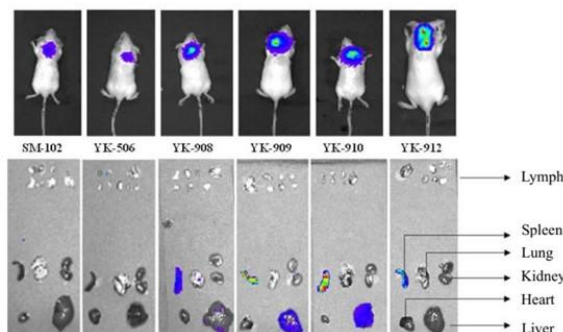
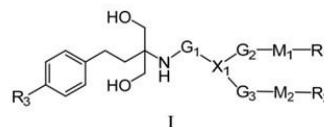
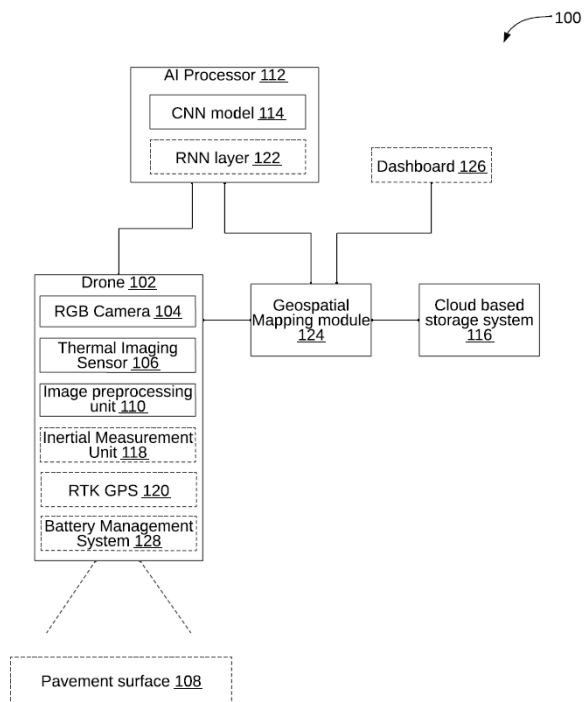
72: SINGH, Sarabjit, SHARMA, Manish

33: IN 31: 202511026253 32: 2025-03-21

54: AI-DRIVEN METHOD OF AUTOMATED DETECTION OF CRACKS IN PAVEMENT USING DRONE IMAGERY

00: -

An AI-driven method and system for automated pavement crack detection using drone imagery is disclosed. The system includes a drone equipped with an RGB camera and a thermal imaging sensor to capture multi-spectral pavement imagery along a predefined flight path. The captured imagery undergoes pre-processing to reduce noise and enhance crack visibility before being analyzed by an artificial intelligence processor. A convolutional neural network detects crack patterns through pixel-level segmentation and assigns severity scores based on width, depth, and length metrics. The detected cracks and severity assessments are overlaid onto a GIS-based pavement map using geospatial data collected by the drone. The processed data is stored in a cloud-based system for longitudinal analysis, enabling predictive maintenance. The system integrates real-time positional accuracy, transfer learning for enhanced detection, and a web-based dashboard for interactive monitoring.



21: 2025/03210. 22: 2025/04/16. 43: 2025/10/29
 51: A61K; C07C; A61P
 71: BEIJING YUOCAREKECHUANG
 PHARMACEUTICAL TECHNOLOGY CO., LTD.
 72: SONG, Gengshen, ZHANG, Honglei, MA,
 Yuqing, JIN, Lijie, LI, Jing
 33: CN 31: 2024104637949 32: 2024-04-17
**54: LONG-ACTING SPLEEN-TARGETING
 CATIONIC LIPID COMPOUND COMPRISING
 BENZENE RING STRUCTURE, COMPOSITION
 COMPRISING SAME, AND USE THEREOF**
 00: -

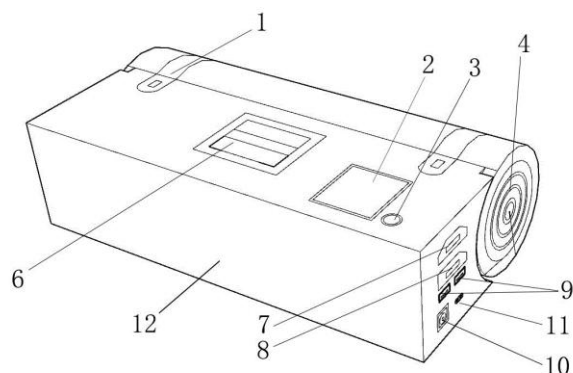
The present disclosure relates to the field of medicine, specifically to a long-acting spleen-targeting cationic lipid compound comprising a benzene ring structure, a composition comprising the same, and a use thereof. More specifically, the present disclosure provides a compound of formula (I), or an N-oxide thereof, a solvate thereof, a pharmaceutically acceptable salt thereof, or a stereoisomer thereof. The present disclosure further provides a composition comprising the aforementioned compound and a use thereof in delivering therapeutic or prophylactic agents.

21: 2025/03212. 22: 2025/04/16. 43: 2025/10/29
 51: A61B

71: The First Affiliated Hospital of Xinxiang Medical University
 72: Junqiang Zhao, Wenjie Ren, Bo Song, Xiaohong Kang, Caifeng Zhang, Hongkai Cui, Junyan Yue, Zhongwei Li, Wu Ren, Linlin Luo, Wanqi Sun, Junyao Li, Huifang Yang, Qianhui Zhai, Zhongnan Gong, Zhan Yin
 33: CN 31: 202520553627.3 32: 2025-03-27
54: A STORABLE GAIT ACQUISITION DEVICE
 00: -

The present invention discloses a storable gait acquisition device, belonging to the field of gait collection technologies. It aims to address the issues in the prior art related to inconvenient storage and poor compatibility with accessories of different models. The proposed technical solution includes a binding mechanism arranged on the main body, as well as a flexible acquisition pad and flexible pressure sensors. These components allow the acquisition pad to be rolled up and secured by the binding mechanism during storage. The main body is also equipped with multiple types of power supply and video output interfaces. By incorporating the binding mechanism, the gait acquisition pad can be conveniently rolled and secured, significantly improving storage convenience and reducing space occupation. Furthermore, the multiple video output ports on the device ensure compatibility with various display types, and the multiple power interfaces support different power cables, thereby greatly

enhancing compatibility with various peripheral accessories.



21: 2025/03213. 22: 2025/04/16. 43: 2025/10/29
51: G06N

71: C.G.C UNIVERSITY, MOHALI

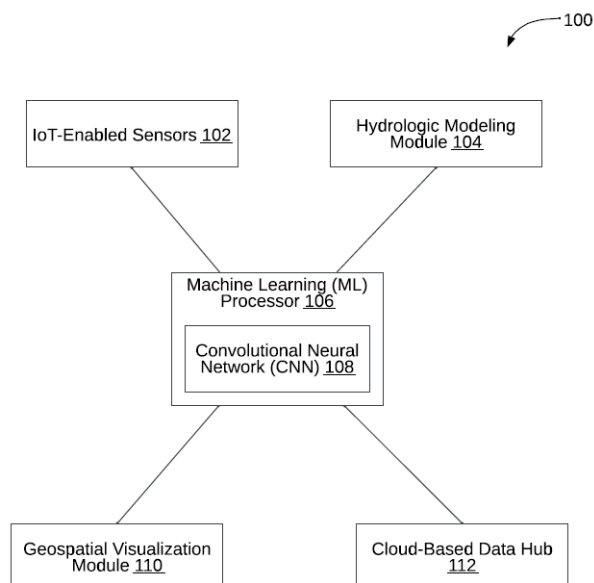
72: SAXENA, Rini, MAHAJAN, Rohini

33: IN 31: 202511026255 32: 2025-03-21

54: REAL-TIME FLOOD RISK MAPPING WITH HYDROLOGIC MODELING AND MACHINE LEARNING

00: -

The present disclosure relates to a system and method for real-time flood risk mapping integrate hydrologic modeling and machine learning to predict and visualize flood risks across a watershed. A network of IoT-enabled sensors measures rainfall intensity, river water level, soil moisture, and groundwater pressure every 15 minutes. A hydrologic modeling module simulates water flow using a 2D shallow water equation model, incorporating sensor data with digital elevation models and land use maps. A machine learning processor, employing a convolutional neural network trained on historical flood data, predicts inundation extents and computes a flood risk index (0–1) over a 12-hour window. A geospatial visualization module generates real-time flood risk maps overlaid on GIS-based topography, stored and updated via a cloud-based data hub every 30 minutes. The invention enhances flood preparedness with accurate, timely risk assessments.



21: 2025/03214. 22: 2025/04/16. 43: 2025/10/29
51: G01B

71: C.G.C UNIVERSITY, MOHALI

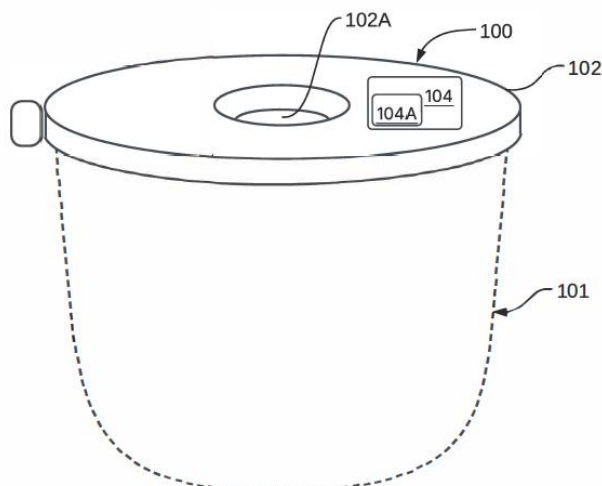
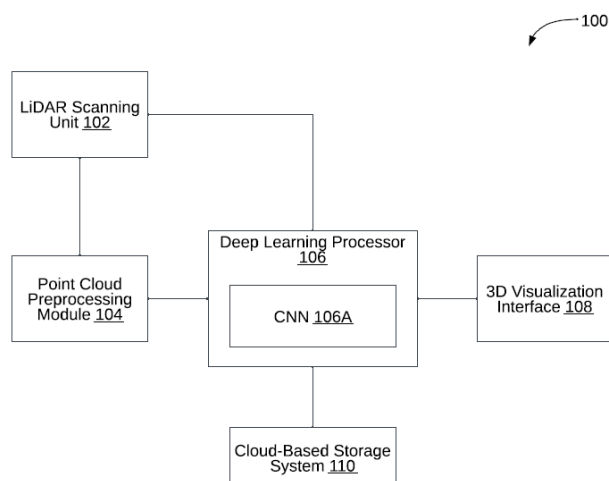
72: JEET, Rubal, GUPTA, Anish

33: IN 31: 202511026257 32: 2025-03-21

54: TUNNEL DEFORMATION MONITORING USING LIDAR AND DEEP LEARNING

00: -

The present disclosure relates to a system and method for monitoring tunnel deformation utilizing LiDAR and deep learning to ensure structural integrity. A LiDAR scanning unit, mounted on an autonomous robotic vehicle, captures high-resolution 3D point cloud data of a tunnel's interior at 500,000 points per second across a 360-degree field of view. The data is preprocessed to remove outliers and down-sampled to 5-centimeter resolution, then analyzed by a convolutional neural network (CNN) with PointNet++ architecture, achieving 94% segmentation precision. The CNN segments deformation regions and quantifies severity with 2-millimeter accuracy. A 3D visualization interface renders a real-time digital model with color-coded heatmaps, updated every 6 hours, while a cloud-based storage system archives data and retrains the CNN weekly, enabling continuous monitoring and predictive insights over a 30-day forecast period.



21: 2025/03215. 22: 2025/04/16. 43: 2025/10/29

51: A47G

71: C.G.C UNIVERSITY, MOHALI

72: KUMAR, Mirgender

33: IN 31: 202511026261 32: 2025-03-21

54: AUTOMATIC SPILL-PROOF CUP LID WITH ADJUSTABLE FLOW CONTROL

00: -

The present disclosure relates to an automatic spill-proof cup lid with adjustable flow control features a lid body attachable to a cup, incorporating a drinking aperture for liquid dispensing. A motion detection assembly with an accelerometer detects vigorous cup motion, such as shaking exceeding a predefined frequency threshold, generating a motion signal. Operatively coupled, a sealing assembly includes a slidable shutter and an electromechanical actuator, like a solenoid, which moves the shutter to seal the aperture in response to the signal, preventing spillage. An adjustable flow control valve, comprising a rotatable dial and variable aperture disc, allows manual regulation of liquid flow from 5 mL/s to 20 mL/s when the shutter is open. Additional features include a microcontroller for rapid response, a silicone gasket for sealing, and a manual override switch.

21: 2025/03216. 22: 2025/04/16. 43: 2025/10/29

51: A61B

71: C.G.C UNIVERSITY, MOHALI

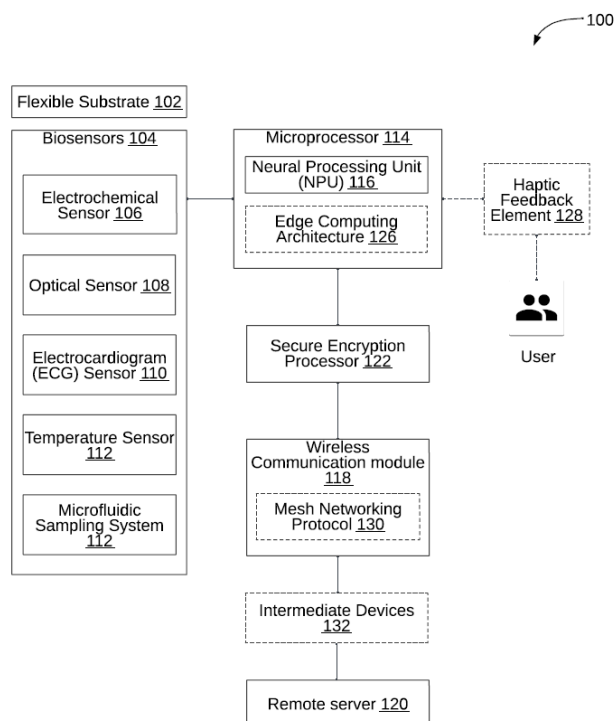
72: KUMAR, Mirgender, KAUR, Bhupinder

33: IN 31: 202511026704 32: 2025-03-23

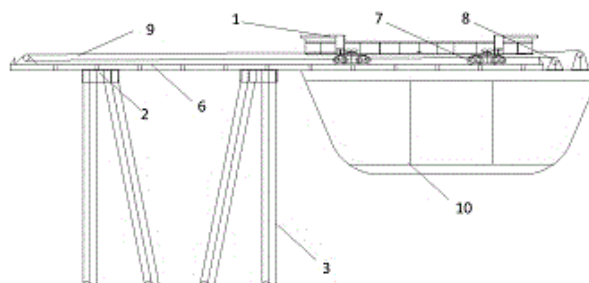
54: WEARABLE HEALTH MONITORING DEVICE WITH REAL-TIME DATA TRANSMISSION

00: -

The present invention relates to a wearable health monitoring device with real-time data transmission and method thereof. The wearable health monitoring system includes a flexible substrate embedded with biosensors that accurately detect glucose levels, blood oxygen saturation, heart activity, and skin temperature. A microprocessor transforms raw data into actionable health insights using advanced signal conditioning, sensor fusion, and machine learning to pinpoint anomalies. Anomalous data is securely transmitted to a remote server through a low-power wide-area network, fortified by blockchain-based authentication. With edge computing, adaptive sampling, and haptic feedback, the system ensures real-time analysis, power efficiency, and user engagement. The system provides for precise data processing, secure transmission, and robust privacy.



pile top jacking device is installed at the top of a pile cap; step 2, the height of the three-way hydraulic jack in the middle is lowered to below the bottom elevation of the protruding transverse beam or longitudinal beam; step 3, the three-way hydraulic jack is moved to the rear of the protruding transverse beam or longitudinal beam of the wharf superstructure, and then the vertical hydraulic jack is installed behind the wharf superstructure; and step 4, the wharf superstructure is jacked forwards by means of the three-way hydraulic jack in the middle. The integrated jacking and traction installation method used in the present invention has the advantages of a low construction risk, high safety, a high construction efficiency and so on.



21: 2025/03247. 22: 2025/04/16. 43: 2025/10/29
 51: E02D
 71: CCCC SECOND HARBOR ENGINEERING CO., LTD., CCCC WUHAN HARBOUR ENGINEERING DESIGN AND RESEARCH CO., LTD.
 72: ZHANG, YONGTAO, FENG, XIANDAO, LIN, HONGXING, LIU, CONGCONG, YANG, KAIXUAN, HUANG, RUIYI, HE, CONG, LUO, ZHAO, SHEN, LILONG, ZHANG, LEI, XIAO, YIZHOU, ZHAO, DONGLIANG, WANG, CONG, QIU, ZHENGZHONG, GAO, NINGBO, HAN, PENG PENG, CHEN, DIYU, SUN, WANJING, ZHOU, LONG

33: CN 31: 202211405491.9 32: 2022-11-10
54: INTEGRAL INSTALLATION METHOD FOR SUPERSTRUCTURE OF OFFSHORE PILE-FOUNDATION MARINE BUILDING

00: -
 Disclosed in the present invention is an integral installation method for a superstructure of an offshore pile-foundation marine building. A wharf superstructure is provided with protruding transverse beams or longitudinal beams on a bottom face, and is installed by performing jacking by means of a pile top jacking device which is provided with a three-way hydraulic jack in the middle and vertical hydraulic jacks on two sides. The specific steps of jacking installation of the wharf superstructure between pile foundations are as follows: step 1, a

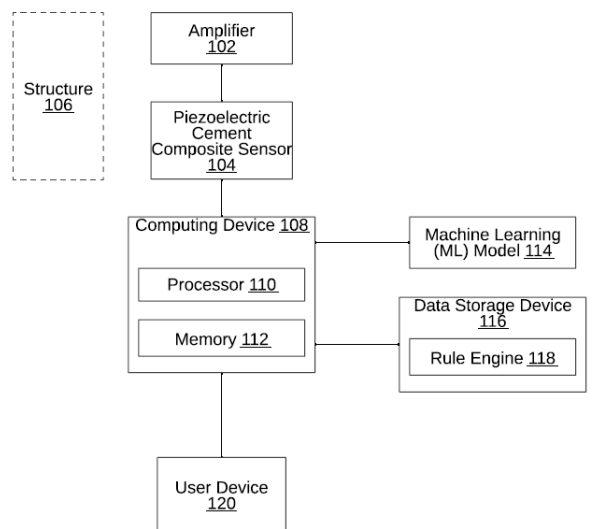
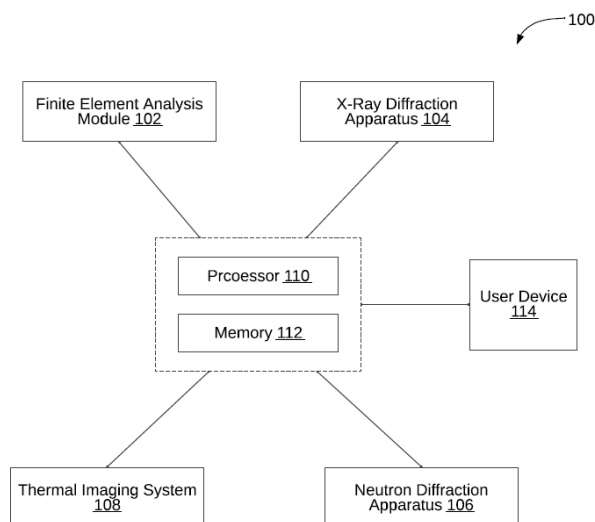
21: 2025/03263. 22: 2025/04/17. 43: 2025/10/29
 51: G01N

71: C.G.C UNIVERSITY, MOHALI
 72: MANN, Vikasdeep Singh, SHARMA, Sahil
 33: IN 31: 202511026248 32: 2025-03-21

54: SYSTEM AND METHOD OF COMPREHENSIVE STRESS ANALYSIS IN METALLIC STRUCTURES

00: -
 The present disclosure relates to analyzing stress in metallic structures through a combination of computational modeling and advanced measurement techniques. By merging finite element analysis with multiple experimental methods including X-ray and neutron diffraction, the system generates highly accurate stress distribution profiles while significantly reducing analysis time and cost. The invention incorporates real-time monitoring capabilities and employs an iterative optimization algorithm to continuously refine the accuracy of stress predictions. Through automated feedback control, the system can dynamically adjust welding parameters based on real-time stress

measurements, ensuring optimal structural integrity throughout the manufacturing process.



21: 2025/03264. 22: 2025/04/17. 43: 2025/10/29

51: G01N

71: C.G.C UNIVERSITY, MOHALI

72: TOMAR, Anshu, JUNEJA, Gaurav

54: CEMENT EMBEDDED SENSOR-BASED METHOD AND SYSTEM FOR ASSESSING STRUCTURE INTEGRITY

00: -

A system and method of detecting microcracks in a structure are disclosed. The system includes an amplifier to amplify acoustic emissions caused by irreversible changes in the structure, a piezoelectric cement composite embedded within the structure to detect amplified emissions and generate a signal, and a computing device comprising a processor and memory. The computing device analyse the signal to determine a rate of events and an accumulated number of events, which are fed into a pre-trained machine learning model to predict a microcrack location. The system may further verify the location using a rule engine and transmit results to a user device. The piezoelectric cement composite may feature a 1-3 connectivity pattern and detect emissions in a 20 kHz to 1.5 MHz range, with the amplifier operating at 40 dB.

21: 2025/03265. 22: 2025/04/17. 43: 2025/10/29

51: G01N

71: C.G.C UNIVERSITY, MOHALI

72: PANDEY, Vineet, TOMAR, Anshu

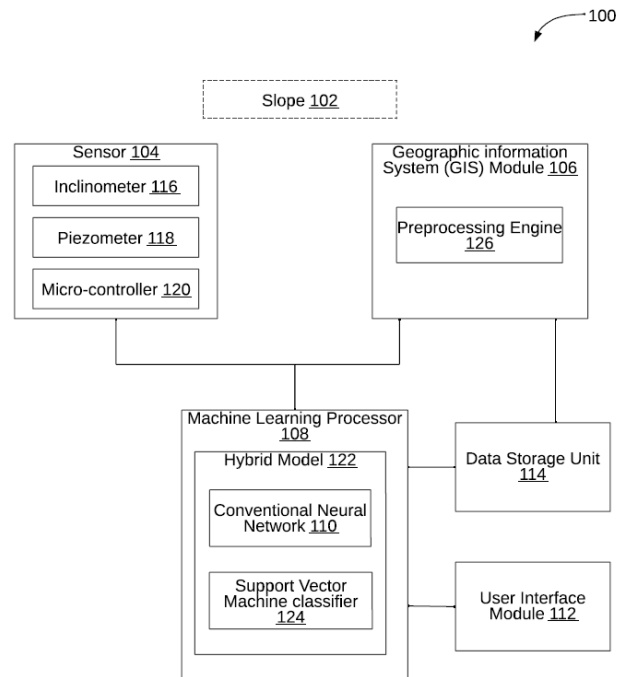
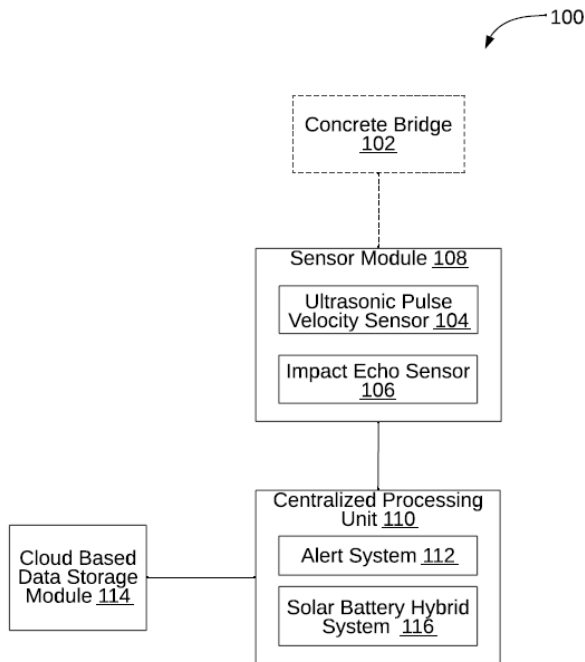
33: IN 31: 202511026250 32: 2025-03-21

54: REAL-TIME MONITORING OF CONCRETE STRUCTURAL INTEGRITY IN BRIDGE STRUCTURES

00: -

The present disclosure relates to a method and system for real-time monitoring of concrete structural integrity in bridge structures. The approach may include deploying a modular non-destructive testing system with sensor modules featuring ultrasonic pulse velocity and impact-echo sensors. These sensors may be encased in weather-resistant housings, potentially enabling continuous data collection over a network. Real-time data may be processed using a centralized unit with a spectral analysis algorithm, possibly identifying cracks or degradation through frequency signatures. Immediate alerts may be generated and sent to a mobile application when anomalies exceed predefined thresholds, potentially facilitating non-invasive monitoring without structural damage. Additional features may include wireless operation, environmental data integration, machine learning for adaptive thresholds, and cloud storage for historical analysis, possibly enhancing safety and maintenance efficiency in bridge management.

thereby facilitating proactive landslide risk management and geotechnical hazard mitigation.



21: 2025/03266. 22: 2025/04/17. 43: 2025/10/29
51: G01V

71: C.G.C UNIVERSITY, MOHALI

72: REDDY, Pradeep, SHARMA, Ishu

33: IN 31: 202511026251 32: 2025-03-21

54: AUTOMATED GEOTECHNICAL RISK ASSESSMENT TOOL FOR SLOPE STABILITY USING MACHINE LEARNING AND GIS INTEGRATION

00: -

The present disclosure relates to a system and method for performing auto-mated geotechnical risk assessment of slope stability. The system may include a plurality of sensors deployed across a slope to measure real-time soil parameters, a geographic information system GIS module to collect and integrate spatial data layers, and a machine learning processor to analyze the data. The method may include pro-cessing real-time soil parameters and spatial data layers to predict a slope stability index, assigning a risk classification score, and generating a 3D topographic map over-laid with stability assessments. A user interface may display real-time monitoring data, enabling stakeholders to assess slope stability dynamically. The system may also in-corporate a hybrid machine learning model, cloud-based data storage, and automated alerts, enhancing predictive accuracy and decision-making,

21: 2025/03267. 22: 2025/04/17. 43: 2025/10/29
51: G06F

71: C.G.C UNIVERSITY, MOHALI

72: DEVI, Anita, SHABBIR, Mohd

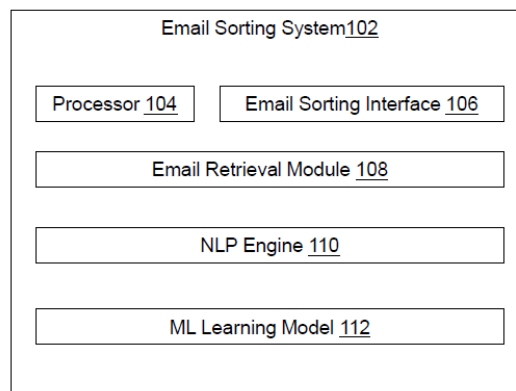
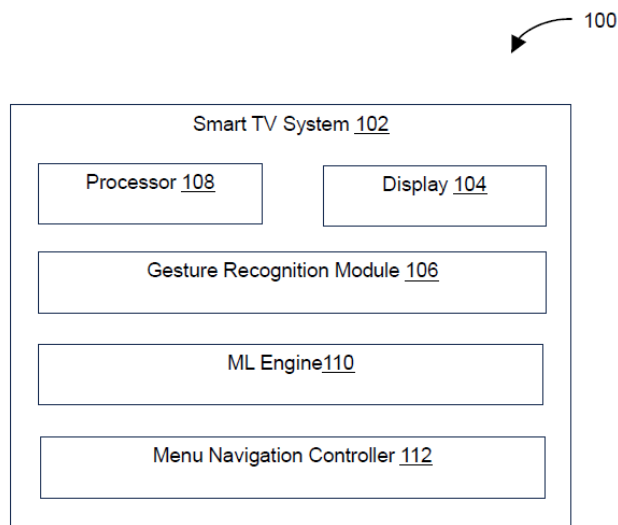
33: IN 31: 202511030769 32: 2025-03-29

54: SMART TV INTERFACE WITH GESTURE-CONTROLLED MENU NAVIGATION

00: -

The present disclosure relates to a smart TV system with gesture-controlled menu navigation. The system may include a display for rendering a graphical user interface (GUI) comprising multiple selectable items, and a gesture recognition module having a depth-sensing camera for capturing user gestures and a processor configured to detect and interpret three-dimensional hand gestures in real-time. A machine learning engine may enhance gesture recognition accuracy by processing historical user-specific gesture data stored in an encrypted profile and updating a gesture classification model using a convolutional neural network (CNN). A menu navigation controller may map predefined gestures to commands such as scrolling, selecting, and returning. The system may further include an Internet of Things (IoT) interface that securely synchronizes gesture-mapped commands with a

paired IoT device in real time, adjusting the GUI layout dynamically based on gesture speed.



21: 2025/03268. 22: 2025/04/17. 43: 2025/10/29
51: G06F

71: C.G.C UNIVERSITY, MOHALI

72: KUMAR, Mukesh, SINGH, Sajjan

33: IN 31: 202511030766 32: 2025-03-29

54: EMAIL SORTING ENGINE WITH PRIORITY-BASED MACHINE LEARNING

00: -

The present disclosure relates to a system for sorting electronic mail using priority-based machine learning. The system may include a processor and a non-transitory memory storing instructions executable by the processor. An email retrieval module may access a user's inbox via an IMAP protocol and extract metadata and content from incoming emails. A natural language processing (NLP) engine may analyze email content using a transformer-based neural network to generate a contextual feature vector. A machine learning model implementing a Q-learning algorithm may assign a priority score based on contextual and behavioral analysis. The priority score may be dynamically adjusted based on user actions. An email sorting interface may display ranked emails and update priority scores in real-time based on user feedback. The system may include a privacy-preserving module employing encryption for secure data processing.

21: 2025/03272. 22: 2025/04/17. 43: 2025/10/29
51: G01R

71: C.G.C UNIVERSITY, MOHALI

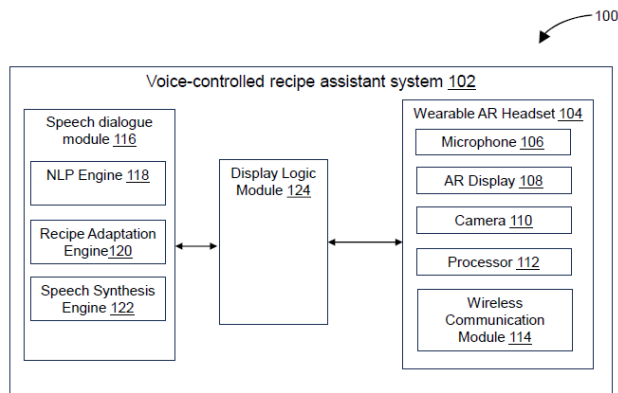
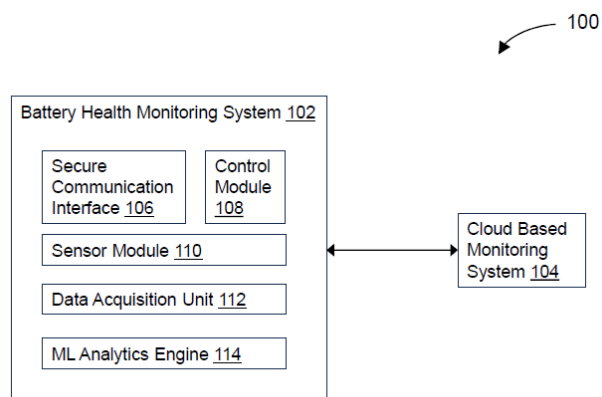
72: MITTAL, Saurabh, KUMAR, Raj

33: IN 31: 202511026698 32: 2025-03-23

54: BATTERY HEALTH MONITOR WITH PREDICTIVE DEGRADATION ANALYTICS

00: -

The present disclosure relates to a battery health monitoring system with predictive degradation analytics. The battery health monitoring system comprise a sensor module configured to measure real-time battery parameters. The sensor module may comprise an electrochemical impedance spectroscopy (EIS) sensor to detect battery degradation at multiple frequency levels. The system may further comprise a data acquisition unit that may collect and preprocess the measured battery parameters. Additionally, the system comprises a machine learning-based analytics engine comprising a convolutional neural network (CNN) model trained on historical charge-discharge cycles, which analyzes temporal degradation patterns, and estimates a remaining useful life (RUL). The system comprises a secure communication interface supporting Bluetooth Low Energy (BLE) and 5G connectivity to transmit predictive degradation insights to an external cloud-based monitoring system, and a control module that may dynamically adjust charging voltage and current thresholds.



21: 2025/03273. 22: 2025/04/17. 43: 2025/10/29

51: G06F

71: C.G.C UNIVERSITY, MOHALI

72: SINGH, Gurpreet, SIDHU, Manjot Kaur

33: IN 31: 202511030765 32: 2025-03-29

54: VOICE-CONTROLLED RECIPE ASSISTANT WITH STEP-BY-STEP DISPLAY LOGIC

00: -

The present disclosure relates to a voice-controlled recipe assistant system and method of leveraging a wearable augmented reality (AR) headset to enhance the cooking experience. The system integrates a microphone for capturing voice commands, an AR display for projecting holographic step-by-step recipe instructions overlaid onto the real-world cooking environment, and a camera for scanning ingredient barcodes and monitoring progress through real-time image analysis. A processor, coupled with a wireless communication module, executes a speech dialogue module featuring a natural language processing (NLP) engine—powered by a deep learning model trained on culinary ontologies—to interpret commands, a recipe adaptation engine to adjust steps based on ingredient availability, and a speech synthesis engine for audible feedback. This system offers an intuitive, interactive, and adaptive cooking assistant for users.

21: 2025/03274. 22: 2025/04/17. 43: 2025/10/29

51: H04N

71: C.G.C UNIVERSITY, MOHALI

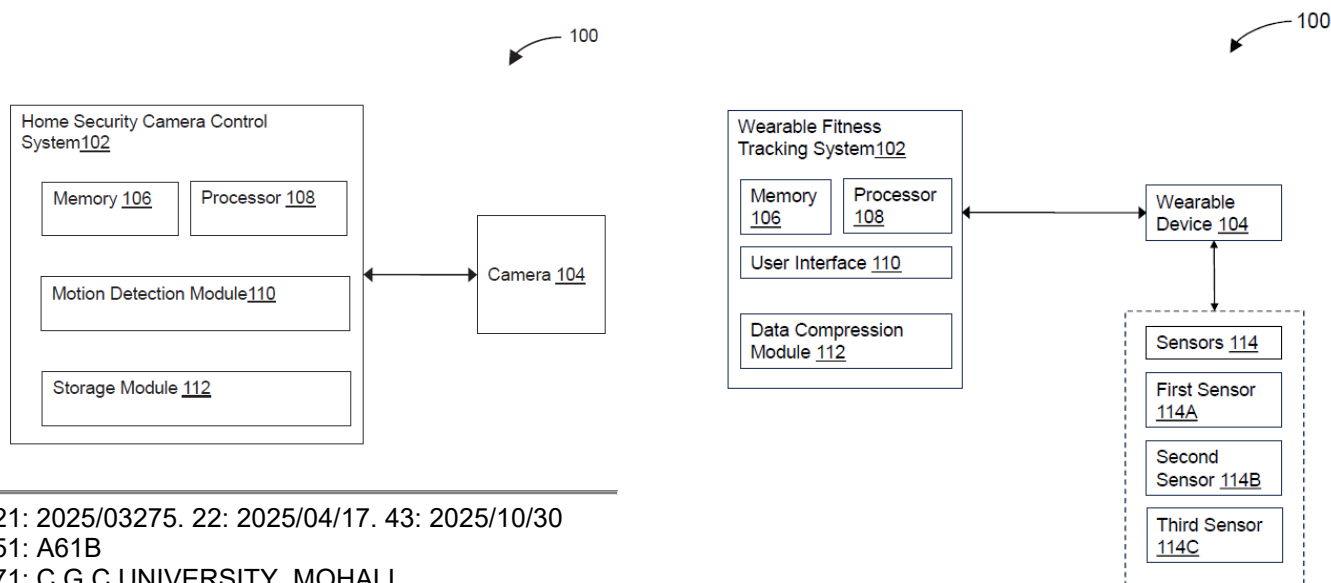
72: SIDHU, Manjot Kaur, SINGH, Gurpreet

33: IN 31: 202511026701 32: 2025-03-23

54: HOME SECURITY CAMERA CONTROLLER WITH MOTION-TRIGGERED FRAME RATE ADJUSTMENT

00: -

The present disclosure relates to a home security camera control system having a camera apparatus configured to capture video footage of a monitored area and a motion detection module to identify motion within that area. A processor may be coupled to both the camera and motion detection module, and may operate in conjunction with a memory that stores instructions. These instructions may allow the system to operate the camera at a first, lower frame rate during periods without detected motion, with the frame rate dynamically adjusted based on ambient light conditions detected via a light sensor. Upon detection of motion, a two-stage process may be utilized initially through passive infrared sensing for low-power detection, followed by pixel-difference calculations between image frames for confirmation. After this adaptive duration, the frame rate may return to the original level.



21: 2025/03275. 22: 2025/04/17. 43: 2025/10/30
51: A61B

71: C.G.C UNIVERSITY, MOHALI

72: KUMAR, Raj, BRAR, Manbir Kaur

33: IN 31: 202511026705 32: 2025-03-23

54: WEARABLE FITNESS TRACKER WITH CUSTOMIZABLE DATA COMPRESSION

00: -

A wearable fitness tracking system may comprise a wearable device designed to be worn by a user, integrated with multiple sensors to collect physiological and activity data. The system includes a memory for data storage and a processor connected to both the sensors and memory. A data compression module, executed by the processor, analyzes the collected data by identifying patterns such as time-based cycles, typical value ranges for each sensor type, and correlations between different sensor outputs. Based on this analysis, the module dynamically selects the most suitable compression algorithm. This optimized compression helps improve storage efficiency and reduces transmission load. Additionally, the system comprises a user interface that allows users to customize compression settings according to their preferences.

21: 2025/03276. 22: 2025/04/17. 43: 2025/10/30
51: G06F

71: C.G.C UNIVERSITY, MOHALI

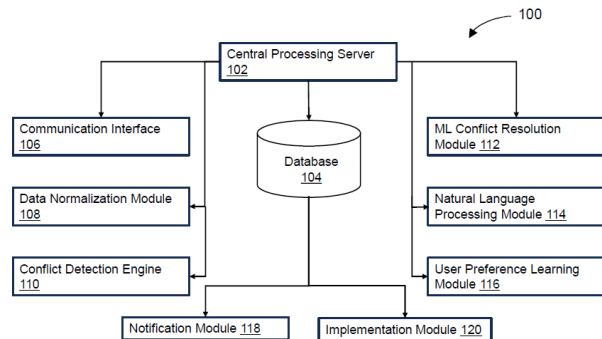
72: REDDY, Pradeep, SINGLA, Chaitanya

33: IN 31: 202511026707 32: 2025-03-23

54: SMART CALENDAR SYNC SYSTEM WITH CONFLICT RESOLUTION ALGORITHMS

00: -

The present disclosure relates to a system and method for synchronizing calendar for multiple users providing efficient conflict resolution. The system comprises a data normalization module that converts received calendar events into a standardized format for processing. A conflict detection engine identifies temporal conflicts between calendar events across users, classifies identified conflicts according to predefined conflict typologies based on event metadata, and calculates a conflict severity score for each identified conflict. A machine learning conflict resolution module analyzes historical conflict resolution patterns of users and ranks these resolution options based on predicted satisfaction outcomes. A natural language processing module that extracts context and importance indicators from event descriptions, identifies semantic similarities between potentially conflicting events, and generates human-readable explanations for suggested conflict resolutions. The system comprises a user preference learning module that adapts resolution strategies based on individual and group feedback.



21: 2025/03278. 22: 2025/04/17. 43: 2025/10/30
51: H02J

71: C.G.C UNIVERSITY, MOHALI

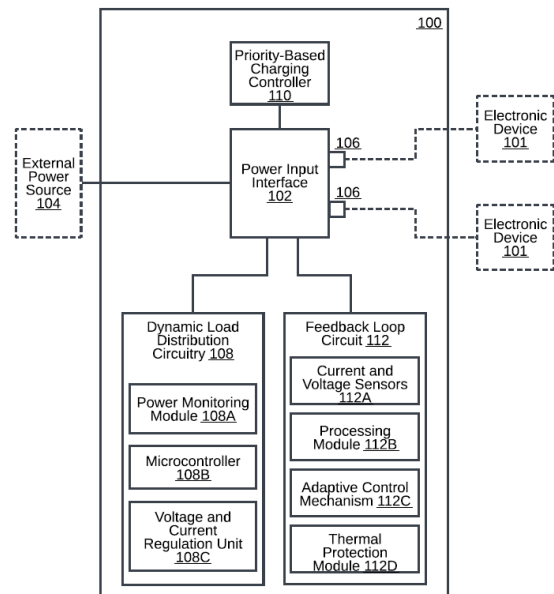
72: GUPTA, Sofia, KAUR, Sharnjeet

33: IN 31: 202511026700 32: 2025-03-23

54: PORTABLE DEVICE CHARGER WITH DYNAMIC LOAD DISTRIBUTION CIRCUITRY

00: -

The present disclosure relates to portable charging system and method of dynamically distributing power to multiple electronic devices via a power input interface with multiple charging ports. A dynamic load distribution circuitry, including a power monitoring module, microcontroller, and voltage/current regulation unit, measures device demands and adjusts power allocation using predefined algorithms. A priority-based charging controller prioritizes delivery based on battery levels, user preferences, and historical patterns. A feedback loop circuit, with sensors and an adaptive control mechanism, continuously monitors and optimizes power output, preventing overload and enhancing efficiency. Additional features include thermal protection, device type detection, and adaptive charging modes. This system ensures stable, efficient charging, minimizes energy loss, and prolongs device battery life, adapting seamlessly to real-time conditions and user needs.



21: 2025/03279. 22: 2025/04/17. 43: 2025/10/30
51: H04N

71: C.G.C UNIVERSITY, MOHALI

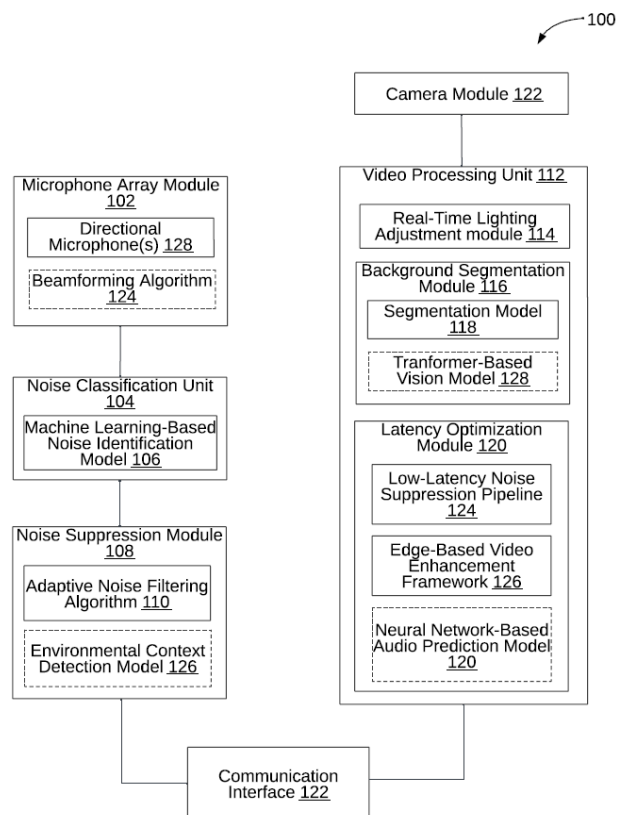
72: DEVI, Anita, SHARMA, Ishu

33: IN 31: 202511026697 32: 2025-03-23

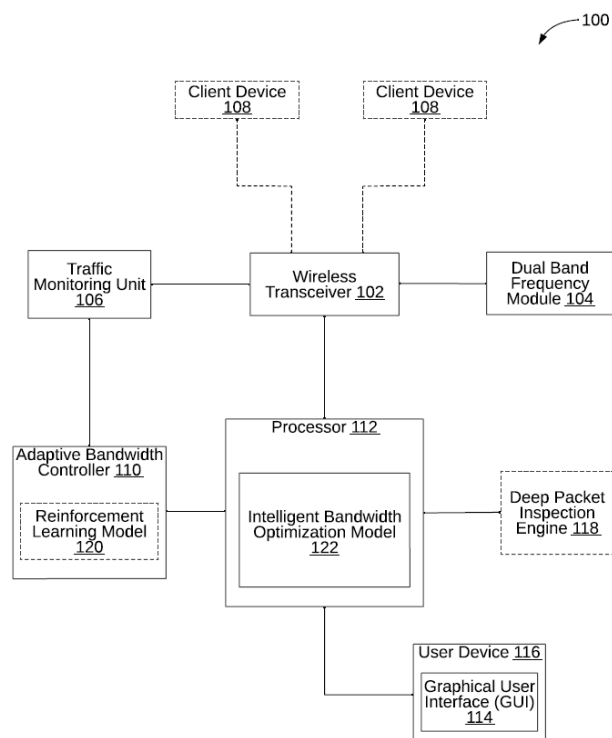
54: REAL-TIME VIDEO CALL ENHANCER WITH BACKGROUND NOISE CANCELLATION

00: -

The present invention relates to a system and method of a real-time video call enhancement system and method that deliver superior audio and video quality by eliminating background noise and optimizing performance. The system captures audio through a microphone array with directional focus, employing machine learning to classify and suppress noises like traffic or typing while preserving clear speech. It enhances video with dynamic lighting adjustments and deep-learning-driven background segmentation, blurring or replacing distractions for a professional look. A latency optimization module ensures minimal delays and compensates for packet loss, while a communication interface integrates seamlessly with conferencing platforms, supporting low-bandwidth optimization for reliable transmission. Adaptive noise suppression, speech detection, and auto-calibration further refine the experience, making this invention essential for flawless virtual communication.



establishing communication, monitoring usage, allocating bandwidth, predicting demand, and displaying data, optimizing performance and reducing power consumption.



21: 2025/03280. 22: 2025/04/17. 43: 2025/10/30
51: H04W

71: C.G.C UNIVERSITY, MOHALI

72: KAUR, Sharnjeet, GUPTA, Sofia

33: IN 31: 202511026703 32: 2025-03-23

54: LOW-POWER WI-FI ROUTER WITH ADAPTIVE BANDWIDTH ALLOCATION

00: -

The present invention relates to a system and method of adaptive bandwidth allocation in a low-power Wi-Fi router to enhance network efficiency and energy conservation. The system includes a power-efficient wireless transceiver operating in multiple power modes, a dual-band frequency module switching between 2.4 GHz and 5 GHz based on network conditions, and a traffic monitoring unit classifying devices by priority and computing bandwidth efficiency scores. An adaptive bandwidth controller dynamically allocates bandwidth, adjusts power levels, and redistributes resources for high-priority applications, while a processor with an intelligent bandwidth optimization model predicts future demand using machine learning. A graphical user interface displays real-time metrics and enables manual adjustments. The method involves

21: 2025/03281. 22: 2025/04/17. 43: 2025/10/30
51: G06Q

71: C.G.C UNIVERSITY, MOHALI

72: VERMA, Deeksha, KUMAR, Mukesh

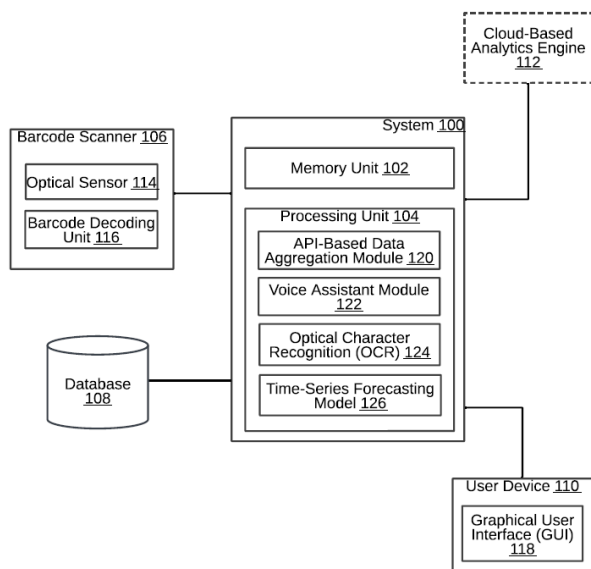
33: IN 31: 202511026706 32: 2025-03-23

54: AUTOMATED GROCERY LIST COMPILER WITH BARCODE SCANNING INTEGRATION

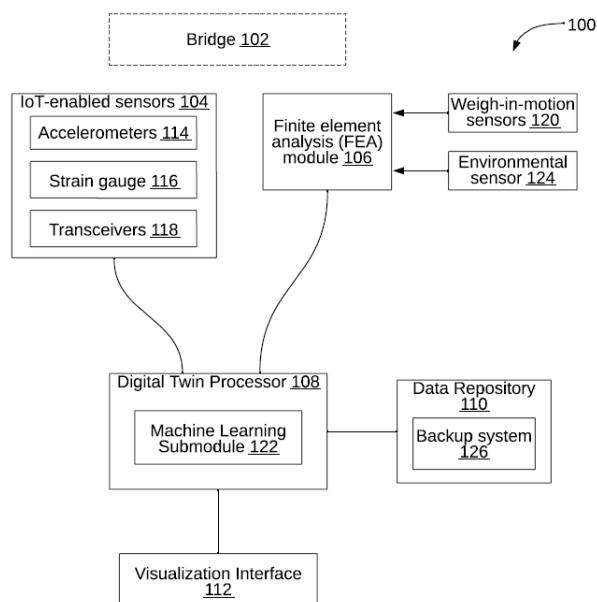
00: -

The present invention relates to a system and method for automated grocery list. The system includes a memory unit storing historical purchase data, a barcode scanner for capturing barcode data, and a processing unit configured to retrieve product information from a database, analyze purchase patterns, and estimate item depletion timeframes. The system generates an automated grocery list based on consumption trends, predefined inventory thresholds, and expiration dates, displaying the list on a user interface with interactive modifications. The system integrates cloud-based analytics for predictive modeling, real-time price comparisons, and voice assistant support. The method involves capturing barcode data, retrieving product

information, analyzing consumption trends, and dynamically updating the grocery list. Additional features include OCR-based receipt scanning, NLP-driven item categorization, and gesture-based list modifications for an optimized shopping experience.



maintenance records for longitudinal analysis. A visualization interface may display the updated model with color-coded risk indicators, thereby facilitating proactive maintenance planning and enhancing infrastructure safety.



21: 2025/03282. 22: 2025/04/17. 43: 2025/10/30
51: G01M

71: C.G.C UNIVERSITY, MOHALI

72: SHARMA, Manish, SINGH, Kushdeep

33: IN 31: 202511026252 32: 2025-03-21

54: DIGITAL TWIN PLATFORM FOR BRIDGE MAINTENANCE USING IOT AND FINITE ELEMENT ANALYSIS

00: -

A system and method of a digital twin platform for bridge maintenance is disclosed that may integrate IoT-enabled sensors, finite element analysis, and machine learning within a hybrid edge-cloud computing architecture. The platform may de-plot a network of sensors across a bridge structure to continuously measure parameters such as strain, vibration frequency, temperature, and crack width. A simulation module may generate a three-dimensional computational model by incorporating material properties and simulating dynamic loads. A processor may update this model in real time by integrating sensor data with simulation outputs and may calculate a structural health index based on deviations from predefined safety thresholds. A cloud-based repository may store real-time measurements, simulation results, and historical

21: 2025/03283. 22: 2025/04/17. 43: 2025/10/30
51: G06Q

71: C.G.C UNIVERSITY, MOHALI

72: DHIMAN, Sourabh, PANDEY, Vineet

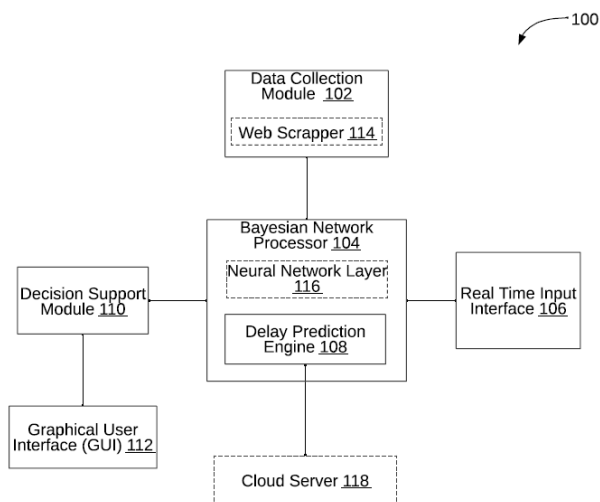
33: IN 31: 202511026254 32: 2025-03-21

54: CONSTRUCTION PROJECT DELAY PREDICTION USING BAYESIAN NETWORKS AND HISTORICAL DATA

00: -

A system and method of predicting construction project delays using Bayesian networks and historical data. The disclosed system may aggregate historical project information, including schedules, resource records, weather logs, and delay event logs from numerous completed projects. A directed acyclic graph may be constructed to represent probabilistic dependencies among delay factors such as weather, labor productivity, material availability, and equipment downtime. The system may incorporate real-time project data to continuously update its conditional probability tables. An inference engine may compute delay probability scores using a junction tree algorithm and generate a delay risk index based on the aggregated scores. A decision support module may present the risk

index on a graphical interface, overlaid with project timelines, and provide automated mitigation recommendations. This approach may offer a dynamic and adaptive framework for addressing uncertainties in construction project management and support proactive delay mitigation strategies. Outcomes may improve.



21: 2025/03284. 22: 2025/04/17. 43: 2025/10/30
51: G06Q

71: C.G.C UNIVERSITY, MOHALI

72: DHIMAN, Sourabh, JUNEJA, Gaurav

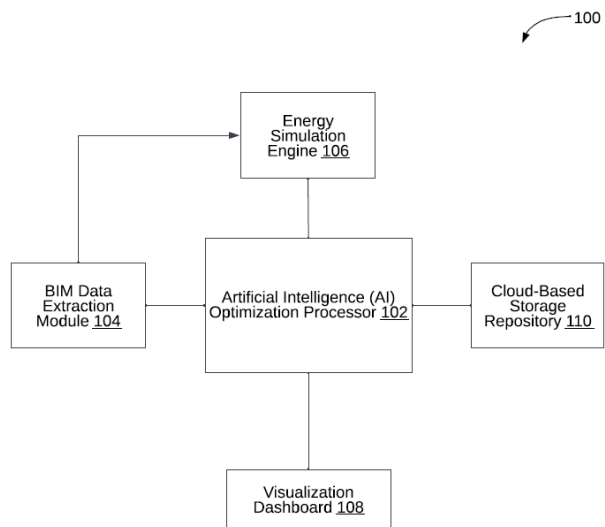
33: IN 31: 202511026256 32: 2025-03-21

54: BIM-INTEGRATED METHOD FOR ENERGY EFFICIENCY ANALYSIS OF BUILDING STRUCTURES

00: -

The present disclosure relates to a system and method for analyzing energy efficiency of building structures using Building Information Modeling (BIM). A BIM data extraction module retrieves a three-dimensional model with geometric parameters, thermal conductivity, insulation thickness, and HVAC specifications from a BIM database. An energy simulation engine performs transient thermal analysis via a finite difference method, simulating heat transfer under hourly weather data. An AI optimization processor iteratively adjusts design parameters - window-to-wall ratio, insulation depth, and HVAC setpoints - achieving at least a 20% reduction in annual energy consumption and a 15% decrease in peak cooling loads. A visualization dashboard displays the optimized energy profile on the BIM model, featuring a color-coded heat map

and interactive sliders for real-time adjustments. A cloud-based storage repository archives data, syncing daily and retraining the neural network monthly, ensuring continuous refinement of energy efficiency analysis.



21: 2025/03285. 22: 2025/04/17. 43: 2025/10/30
51: G08G

71: C.G.C UNIVERSITY, MOHALI

72: SHAHI, Ashima, GOYAL, Shanky

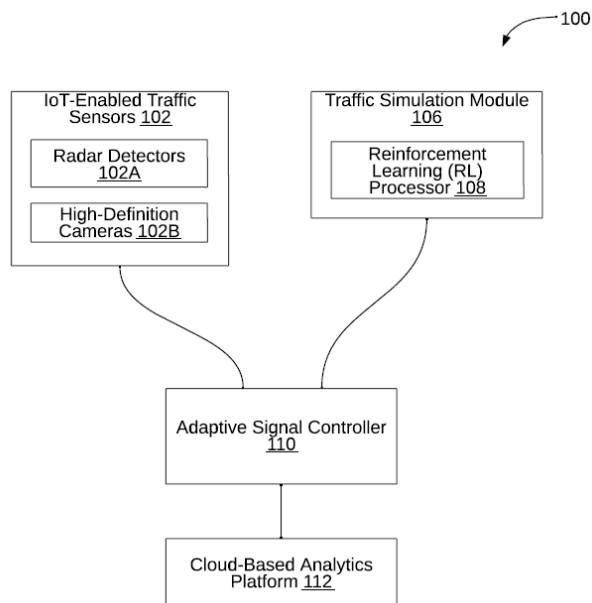
33: IN 31: 202511026258 32: 2025-03-21

54: SMART TRAFFIC MANAGEMENT FOR INTERSECTION OPTIMIZATION USING REINFORCEMENT LEARNING

00: -

The present disclosure relates to a system and method for smart traffic management and intersection optimization utilize reinforcement learning to enhance traffic flow efficiency. A network of IoT-enabled sensors, including radar detectors and high-definition cameras, collects real-time traffic data—vehicle count, speed, queue length, and pedestrian density—at 5-second intervals. A traffic simulation module models intersection dynamics using a car-following model, integrating real-time and historical data. A reinforcement learning processor, executing a deep Q-network trained on 10,000 simulated scenarios, optimizes signal timings every 30 seconds, maximizing a reward function to minimize delay and queue length, achieving 25% throughput improvement over fixed-time control. An adaptive signal controller executes these timings, while a cloud-based analytics platform stores data

and syncs every 30 minutes for continuous learning, enabling adaptive, efficient traffic management.



21: 2025/03286. 22: 2025/04/17. 43: 2025/10/30
51: A47J

71: C.G.C UNIVERSITY, MOHALI

72: GOYAL, Shivani, AGGARWAL, Ankita

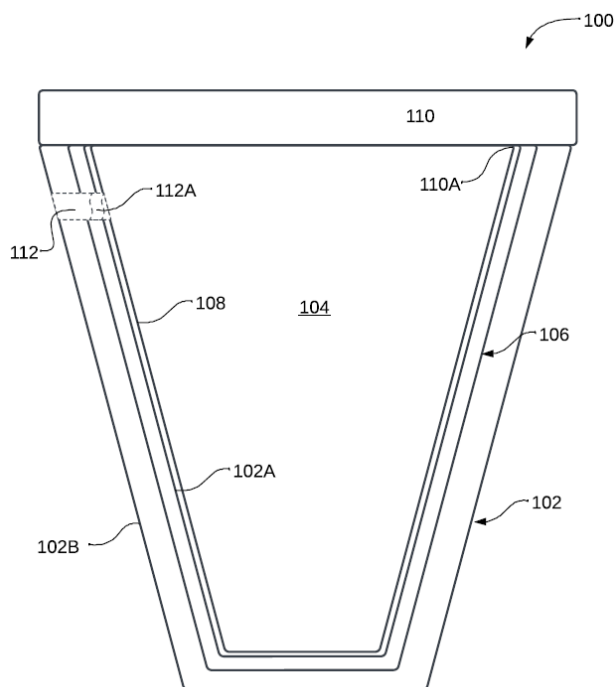
33: IN 31: 202511026262 32: 2025-03-21

54: TEMPERATURE-REGULATED BEVERAGE CONTAINER WITH PHASE-CHANGE THERMAL MANAGEMENT

00: -

The present disclosure relates to a temperature-regulated beverage container with phase-change thermal management. The container features a double-walled, vacuum-insulated body with an inner chamber for holding a beverage. A phase-change material (PCM) encapsulated within an intermediate layer absorbs and releases thermal energy to maintain temperature stability, facilitated by a high-conductivity thermal conduction plate. The PCM compartment may include multiple thermal zones or a removable cartridge for customization. An insulated lid with an airtight seal and a temperature-sensitive valve assembly, featuring a bi-metallic actuator, modulates airflow to prevent overheating. Additional features include a digital temperature display, user-controlled venting, external heat-dissipation fins, and a thermal-insulating coating. This design ensures prolonged beverage

temperature control, adaptability, and enhanced user convenience across diverse conditions.



21: 2025/03287. 22: 2025/04/17. 43: 2025/10/30
51: G01M

71: C.G.C UNIVERSITY, MOHALI

72: KAUSHIK, Vikas, BEDI, Talwinder Singh

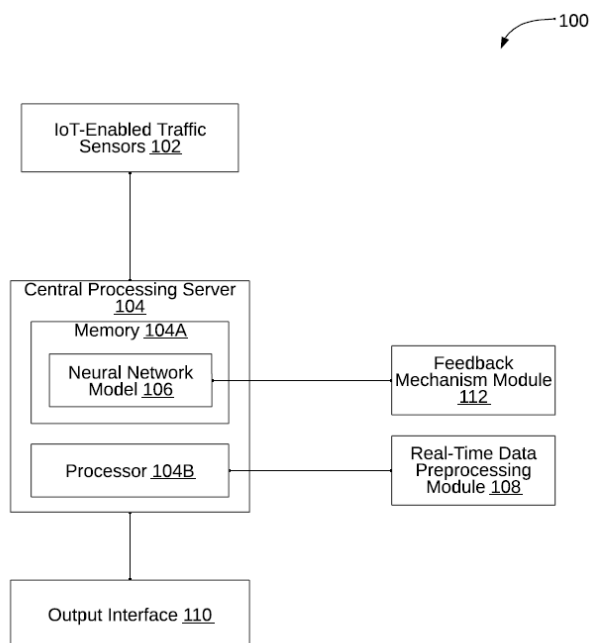
33: IN 31: 202511026259 32: 2025-03-21

54: REAL-TIME SEISMIC RESPONSE PREDICTION OF HIGH-RISE STRUCTURES

00: -

The present disclosure relates to a system and method for real-time seismic response prediction of high-rise structures utilize IoT-enabled seismic sensors mounted at predetermined locations to continuously collect acceleration, velocity, and displacement data during seismic events. The data is transmitted wirelessly to a central processing server, where a pretrained deep convolutional neural network (CNN), enhanced with a recurrent neural network (RNN) layer, processes it to predict nonlinear dynamic responses, including maximum displacement, inter-story drift, and stress distribution. A preprocessing module normalizes and filters the data, ensuring compatibility with the CNN. Predictions are displayed via an output interface within one second, with alerts generated if safety thresholds are exceeded. The system archives data

in a cloud module and periodically retrains the CNN using new seismic data, improving accuracy over time.

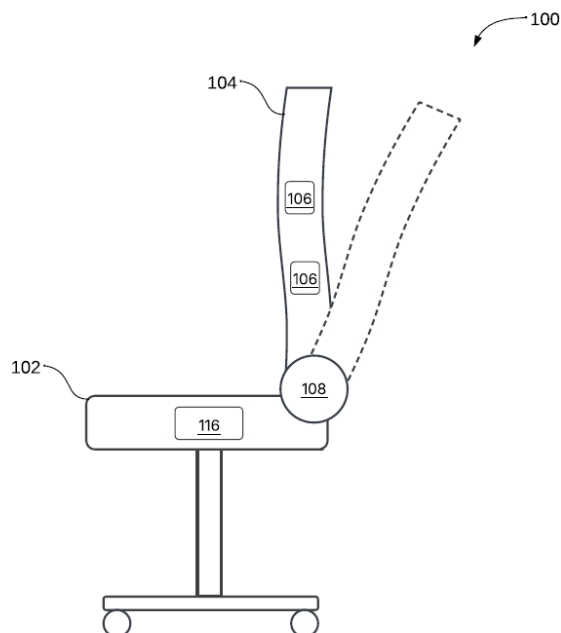


21: 2025/03288. 22: 2025/04/17. 43: 2025/10/30
 51: A47C
 71: C.G.C UNIVERSITY, MOHALI
 72: KAUR, Sarabpreet, MEHTA, Richa
 33: IN 31: 202511026260 32: 2025-03-21
54: SELF-ADJUSTING ERGONOMIC CHAIR WITH A POSTURE CORRECTION MECHANISM

00: -

The present disclosure relates to a self-adjusting ergonomic chair with a posture correction mechanism enhances spinal health and comfort during prolonged sitting. The chair features a seat assembly with a pressure sensor array detecting asymmetric weight distribution, and a backrest assembly with an adaptive lumbar support mechanism driven by an electromechanical actuator. Capacitive pressure sensors monitor spinal posture, while a motorized adjustment mechanism dynamically adjusts lumbar curvature and backrest inclination based on sensor data. A control unit processes posture data, executes a correction algorithm, and signals adjustments. Haptic feedback actuators in a feedback module alert users to prolonged improper posture via vibrations, and a user interface module allows customization and

posture analytics. This design promotes ergonomic alignment and reduces fatigue effectively.



21: 2025/03289. 22: 2025/04/17. 43: 2025/10/30
 51: D06F

71: C.G.C UNIVERSITY, MOHALI

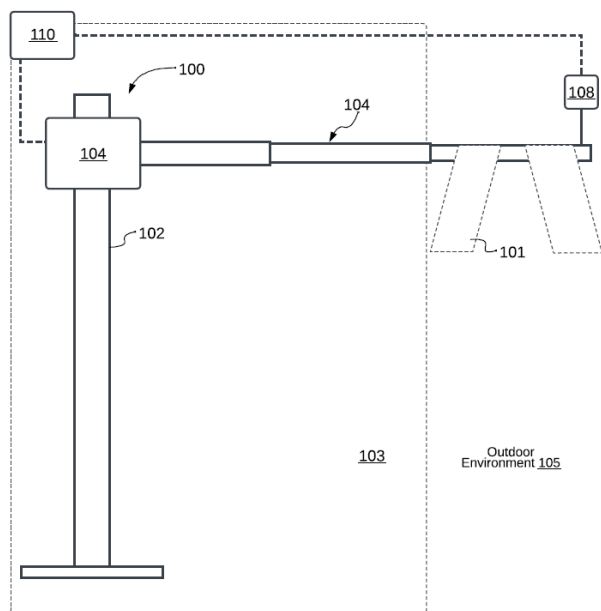
72: SINGH, Varinder, KUMAR, Parveen

33: ID 31: 202511026263 32: 2025-03-21

54: SMART RETRACTABLE CLOTHES DRYING RACK WITH HUMIDITY SENSING AND AUTO-RETRACT MECHANISM

00: -

The present disclosure relates to a smart retractable clothes drying system and method for drying clothes across indoor and outdoor environments. The system may include a frame with extendable rods movably coupled to a motorized repositioning mechanism, a humidity sensor, and a control unit. The rods could extend into an out-door environment for drying and retract indoors when humidity exceeds a threshold, as detected by the sensor and determined by the control unit. The system might monitor humidity, returning rods outdoors when conditions improve, and could incorporate weather forecast data or manual override via a user interface. Additional features may include obstruction detection and user-defined drying times, potentially offering automated, adaptive drying with enhanced convenience and protection for clothes.



21: 2025/03290. 22: 2025/04/17. 43: 2025/10/30
51: F24F

71: C.G.C UNIVERSITY, MOHALI

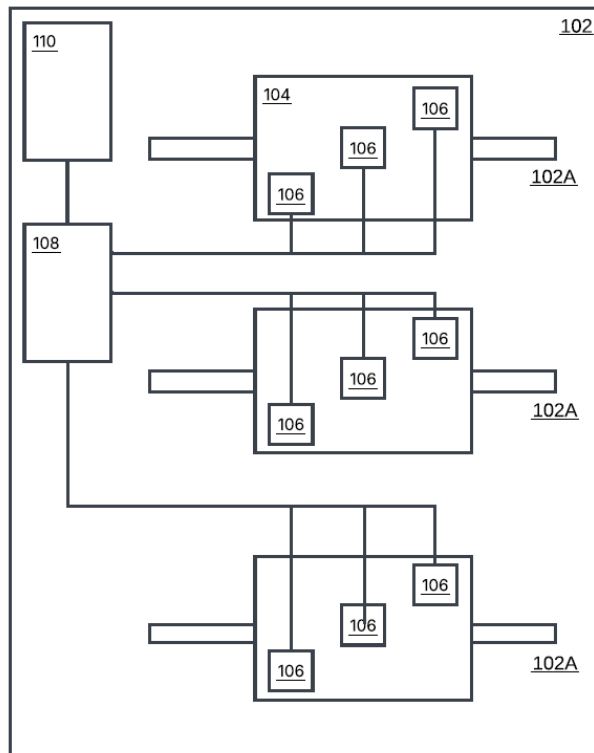
72: SINGH, Sarabjit, BRAR, Manbir Kaur

33: IN 31: 202511026264 32: 2025-03-21

54: MODULAR WALL-MOUNTED FAN WITH DIRECTIONAL AIRFLOW CONTROL

00: -

The present disclosure relates to a modular wall-mounted fan system with directional airflow control. The system includes a base mounting plate with a modular rail system supporting detachable fan modules. Each fan module features a motor, fan blade assembly, and adjustable baffles pivotable between 15 degrees downward and upward, guided by at least three directional airflow sensors detecting air movement patterns. A microprocessor-based control unit adjusts fan speed (100-800 CFM) and baffle positions based on sensor data and user-selected patterns, optimizing airflow distribution. Additional features include a tilt mechanism for 10-degree blade adjustment, stepper motors for three-dimensional baffle control, wireless communication for remote input, and ambient sensors for customized profiles. The system offers scalability, precision, and energy efficiency, with modular accessories enhancing functionality for tailored air circulation.



21: 2025/03291. 22: 2025/04/17. 43: 2025/10/30
51: A47L

71: C.G.C UNIVERSITY, MOHALI

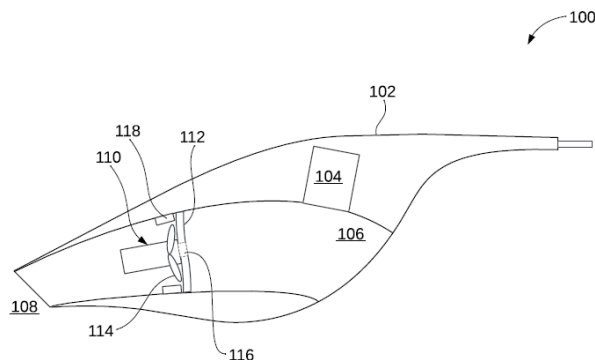
72: SINGH, Gurpartap, SINGH, Sukhdeep

33: IN 31: 202511026265 32: 2025-03-21

54: COMPACT HANDHELD VACUUM CLEANER WITH SELF-CLEANING FILTER MECHANISM

00: -

The present disclosure relates to a compact handheld vacuum cleaner. The compact handheld vacuum cleaner may include a self-cleaning filter mechanism for efficient debris management. The compact handheld vacuum cleaner includes a housing with a motor assembly, a dust collection chamber, and a pleated filter element to trap debris from incoming air. A motorized scraper blade assembly periodically dislodges debris from the filter, while a proximity sensor detects excessive accumulation, triggering a microcontroller to activate the cleaning process. A compressed air pulse system with nozzles delivers high-velocity air bursts to aid debris removal. Dislodged debris is expelled through a selective ejection port into the dust collection chamber. Additional features include nanofiber-coated filters, flexible non-stick scraper blades, and a piezoelectric actuator for enhanced filtration and cleaning efficiency.



21: 2025/03292. 22: 2025/04/17. 43: 2025/10/30

51: A63B

71: C.G.C UNIVERSITY, MOHALI

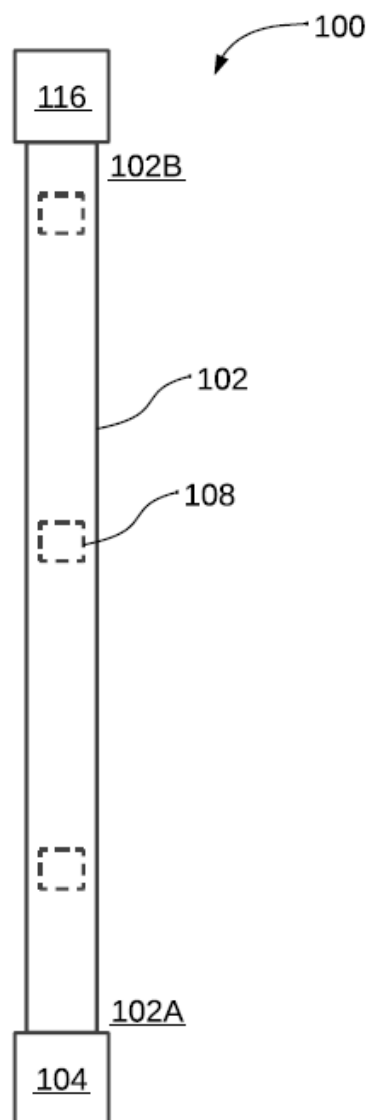
72: KUMAR, Parveen, SINGH, Gurpartap

33: IN 31: 202511026266 32: 2025-03-21

54: SELF-ADJUSTING TENSION MECHANISM FOR EXERCISE RESISTANCE BANDS

00: -

The present disclosure relates to a self-adjusting tension mechanism for exercise resistance bands and a method thereof. The system includes an exercise resistance band and a tension adjustment module at one end of the exercise resistance band. A strain sensor embedded in the band detects real-time tensile force during exercise, while a wireless interface receives a user-defined tension threshold from a mobile device. A microcontroller compares the detected force to the threshold and controls a motorized actuator to adjust the band's length accordingly. Additional features may include a shape-memory alloy for fine-tuning, piezoelectric fibers for enhanced force detection, haptic feedback proportional to tension deviation, and a biometric sensor to adapt tension based on muscle fatigue. This approach enables dynamic, precise resistance control, enhancing workout customization and safety.



21: 2025/03293. 22: 2025/04/17. 43: 2025/10/30

51: D06F

71: C.G.C UNIVERSITY, MOHALI

72: SHARMA, Ashwani Kumar, KUMAR, Ashish

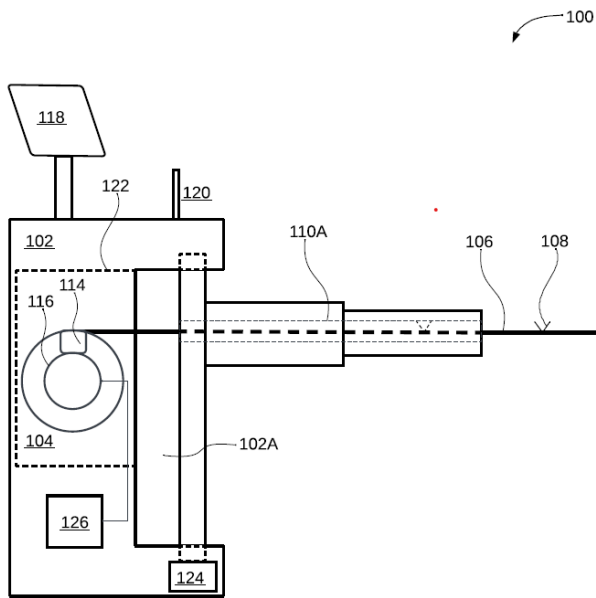
33: IN 31: 202511026267 32: 2025-03-21

54: COMPACT RETRACTABLE CLOTHESLINE WITH INTEGRATED DRYING CLIPS

00: -

The present disclosure relates to a compact retractable clothesline system that includes a wall-mountable housing with a recessed compartment and pivotable cover. A clothesline, unwound from a retractable reel, includes drying clips with spring-loaded jaws and UV-resistant coatings. A telescopic arm extends orthogonally from the housing, guiding the clothesline, while a smart tensioning mechanism

with a sensor and motorized actuator maintains tension, adjustable via a machine learning processor based on usage patterns. Powered by a solar module with photovoltaic film on the cover, the system may transmit tension and load data wirelessly, secure the arm with a biometric lock, and retract the clothesline into the compartment, where a desiccant chamber absorbs moisture, and antimicrobial coatings on clips prevent bacterial growth.



21: 2025/03294. 22: 2025/04/17. 43: 2025/10/30
51: F16M

71: C.G.C UNIVERSITY, MOHALI

72: WALIA, Jagdeep, BANSAL, Jaya

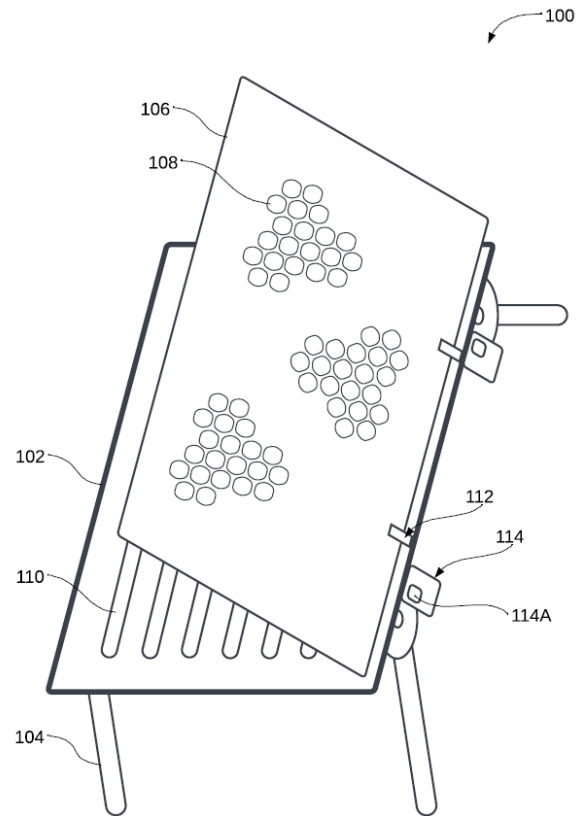
33: IN 31: 202511026695 32: 2025-03-23

54: PORTABLE AND ADJUSTABLE LAPTOP STAND WITH PASSIVE COOLING CHANNELS

00: -

The present disclosure relates to a portable and adjustable laptop stand system (100) that may include a base frame (102) with collapsible support legs (104) adjustable between folded and extended positions, supporting a perforated top plate (106) with micro-perforations (108) in a hexagonal pattern for passive airflow. Passive cooling channels (110), lined with thermally conductive graphene-infused polymer, may extend from lower inlets near the legs to upper outlets aligned with the perforations, potentially featuring microfluidic fins with phase-change material. An adjustable tilt mechanism (112) with a motorized hinge and wireless control may

adjust the top plate angle up to 45 degrees. Further, a self-locking latch (114) with a magnetic sensor may secure the folded state. The system may offer lightweight construction, enhanced cooling, and ergonomic flexibility for laptop use.



21: 2025/03295. 22: 2025/04/17. 43: 2025/10/30
51: A45F

71: C.G.C UNIVERSITY, MOHALI

72: KUMAR, Arvind, KAUR, Preetinder

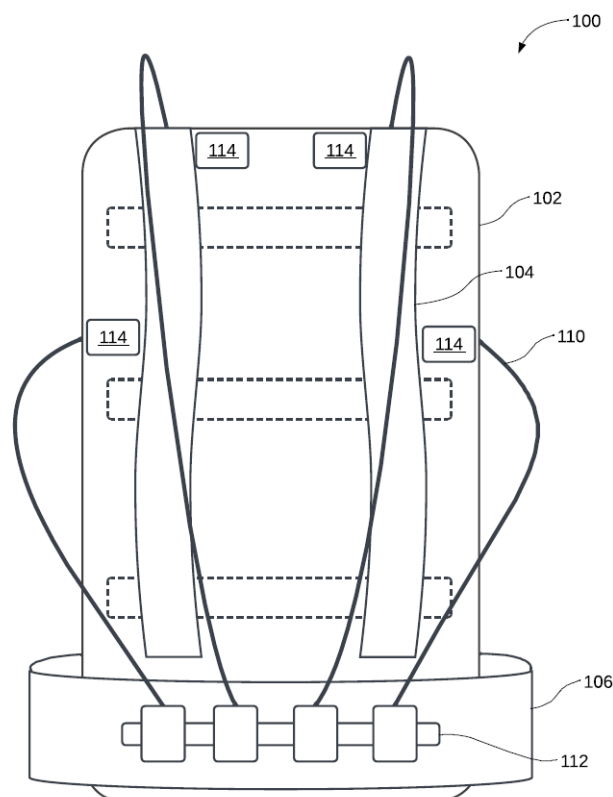
33: IN 31: 202511026699 32: 2025-03-23

54: ADJUSTABLE ERGONOMIC BACKPACK WITH DYNAMIC LOAD DISTRIBUTION MECHANISM

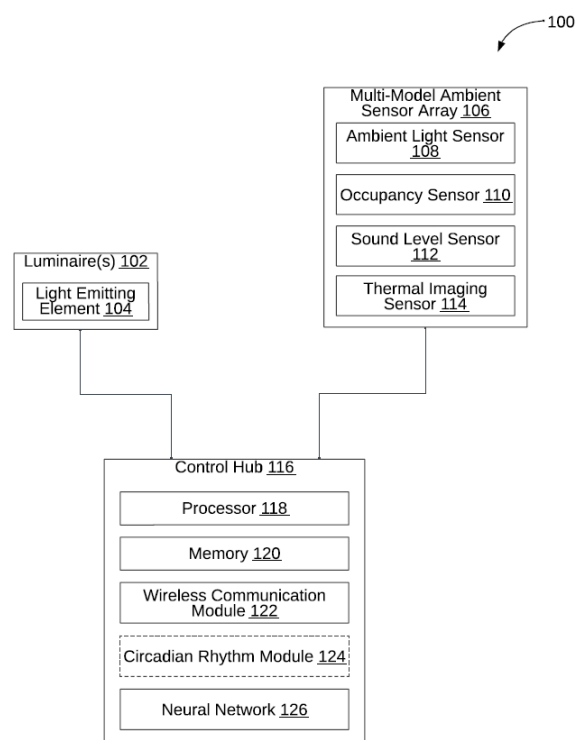
00: -

The present disclosure relates to a backpack system that dynamically adjusts load distribution using a storage chamber with adjustable shoulder straps and a flexible waist support frame. A dynamic suspension assembly, with elastic cords and a motorized tensioning unit, suspends the chamber. Pressure sensors in the body-facing side and waist frame detect load across a user's back and waist, enabling real-time tension adjustments in the cords to optimize balance during movement. A modular

cushion layer with inflatable cells, controlled by a micro-pump, adapts to posture, while vertical chamber movement reduces load fluctuations. Features include a tele-scoping headrest with a sensor-activated cushion, wireless load data transmission, and temperature-regulating phase-change material in the cells, enhancing comfort and customization for extended wear.



powerful control hub, complete with a processor, memory, and wireless communication, harnesses a trained neural network to process this data and dynamically craft lighting profiles. These profiles precisely tune the luminaires' colour temperature and intensity, striking an optimal balance between energy efficiency and human-centric lighting. The method entails gathering sensor data, generating tailored lighting profiles, and seamlessly adjusting the luminaires to enhance performance and comfort.



21: 2025/03296. 22: 2025/04/17. 43: 2025/10/30
51: H05B

71: C.G.C UNIVERSITY, MOHALI

72: JAIDKA, Sachin, SHABBIR, Mohd

33: IN 31: 202511026696 32: 2025-03-23

54: ADAPTIVE LIGHTING CONTROLLER WITH AMBIENT SENSOR INTEGRATION

00: -

A system and method for adaptive lighting control are disclosed. The system includes networked luminaires, each equipped with light-emitting elements boasting adjustable colour temperature and intensity. A robust multi-modal ambient sensor array including an ambient light sensor, a machine learning-driven occupancy sensor, a sound level sensor, and a thermal imaging sensor—captures real-time environmental and occupancy data. A

21: 2025/03297. 22: 2025/04/17. 43: 2025/10/30
51: G01F

71: C.G.C UNIVERSITY, MOHALI

72: SINGLA, Rubani, SINGLA, Chaitanya

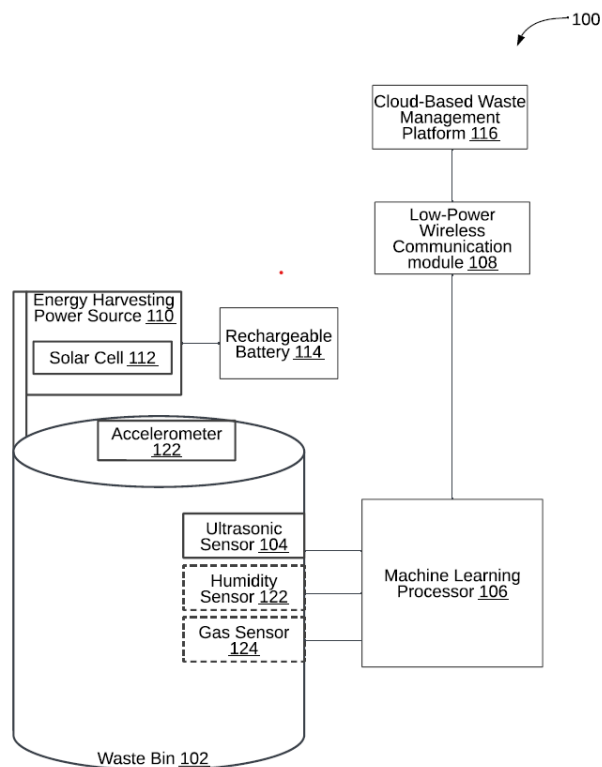
33: IN 31: 202511028202 32: 2025-03-25

54: ELECTRONIC WASTE BIN MONITOR WITH FILL LEVEL DETECTION

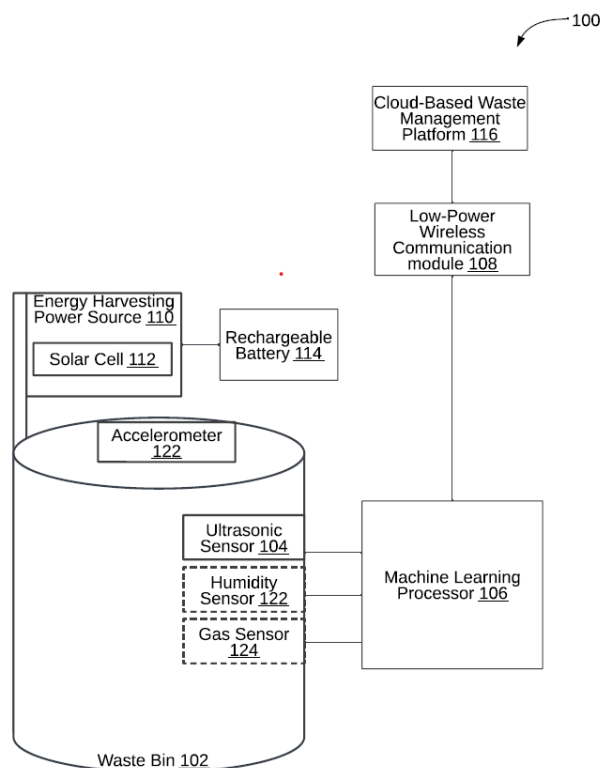
00: -

The present invention relates to a system and method for monitoring waste bin fill levels. The system features an ultrasonic sensor affixed to the waste bin lid's inner surface, paired with a machine learning processor to analyse sensor data. This processor generates a 3D waste profile, classifies waste types via a trained neural network, and calculates precise fill levels. Data is transmitted to a

cloud-based waste management platform using a low-power wireless module over a wide-area network. The system is powered by an energy-harvesting source with solar cells and a rechargeable battery. Additional functionalities include humidity and gas sensors for fill level predictions, a dynamic power schedule for efficiency, and mesh networking to extend communication range, enhancing waste management efficiency.



low-power wireless module over a wide-area network. The system is powered by an energy-harvesting source with solar cells and a rechargeable battery. Additional functionalities include humidity and gas sensors for fill level predictions, a dynamic power schedule for efficiency, and mesh networking to extend communication range, enhancing waste management efficiency.



21: 2025/03297. 22: 2025/04/17. 43: 2025/10/30
51: G01F

71: C.G.C UNIVERSITY, MOHALI

72: SINGLA, Rubani, SINGLA, Chaitanya

33: IN 31: 202511028202 32: 2025-03-25

54: ELECTRONIC WASTE BIN MONITOR WITH FILL LEVEL DETECTION

00: -

The present invention relates to a system and method for monitoring waste bin fill levels. The system features an ultrasonic sensor affixed to the waste bin lid's inner surface, paired with a machine learning processor to analyse sensor data. This processor generates a 3D waste profile, classifies waste types via a trained neural network, and calculates precise fill levels. Data is transmitted to a cloud-based waste management platform using a

21: 2025/03298. 22: 2025/04/17. 43: 2025/10/30
51: G08B

71: C.G.C UNIVERSITY, MOHALI

72: KAUR, Sumanpreet, MEHTA, Richa

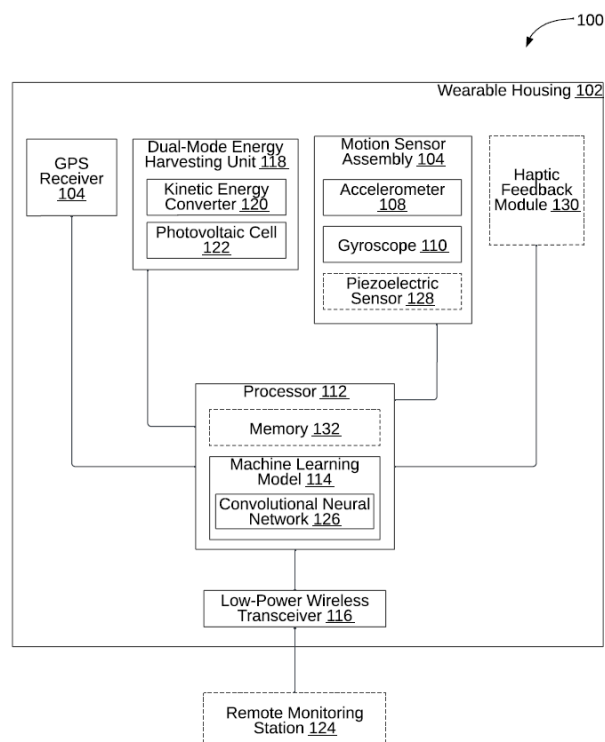
33: IN 31: 202511028492 32: 2025-03-26

54: PERSONAL SAFETY ALARM WITH GPS AND MOTION SENSOR CIRCUITRY

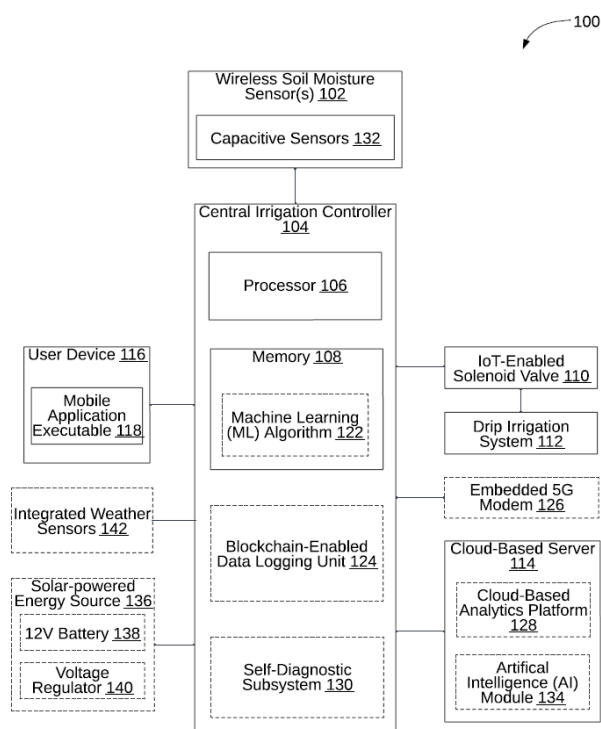
00: -

The present invention relates to personal safety alarm system and method that enhance user safety through integrated motion and location tracking. A wear-able housing attaches to the user, containing a GPS receiver for real-time geolocation with 5-meter accuracy using differential GPS correction. A motion sensor assembly with an accelerometer and gyroscope generates multi-axis motion data, processed by a processor executing a lightweight convolutional neural network. This network, pre-

trained on historical data, classifies motion into normal or anomalous states and adjusts an alarm threshold based on user-specific patterns. When anomalies are detected, a low-power wireless transceiver sends an alarm signal with geolocation via a narrowband IoT network to a remote station. A dual-mode energy harvesting unit powers the system, switching between kinetic and solar energy for sustained operation.



system, while a cloud-based server processes and stores data, sending commands to the controller. A mobile app enables remote monitoring and adjustments. Incorporating machine learning, blockchain, and 5G, the system enhances adaptability, security, and connectivity. It reduces water waste, promotes crop health, and simplifies irrigation management for farmers.



21: 2025/03299. 22: 2025/04/17. 43: 2025/10/30
51: A01G

71: C.G.C UNIVERSITY, MOHALI

72: AGGARWAL, Ankita, KAUR, Sarabpreet

33: IN 31: 202511030771 32: 2025-03-29

54: SMART IRRIGATION CONTROLLER WITH SOIL MOISTURE SENSING

00: -

The present invention relates to smart irrigation system and method for optimizing water usage in greenhouse environments. The system includes multiple wireless soil moisture sensors that measure real-time soil moisture data at various depths. A central irrigation controller, using a processor and model, estimates crop water uptake and determines precise irrigation depth for each event, dynamically adjusting schedules for efficiency. An IoT-enabled solenoid valve controls water flow to a drip irrigation

21: 2025/03300. 22: 2025/04/17. 43: 2025/10/30
51: G01N

71: C.G.C UNIVERSITY, MOHALI

72: WALIA, Jagdeep, GUPTA, Anikate

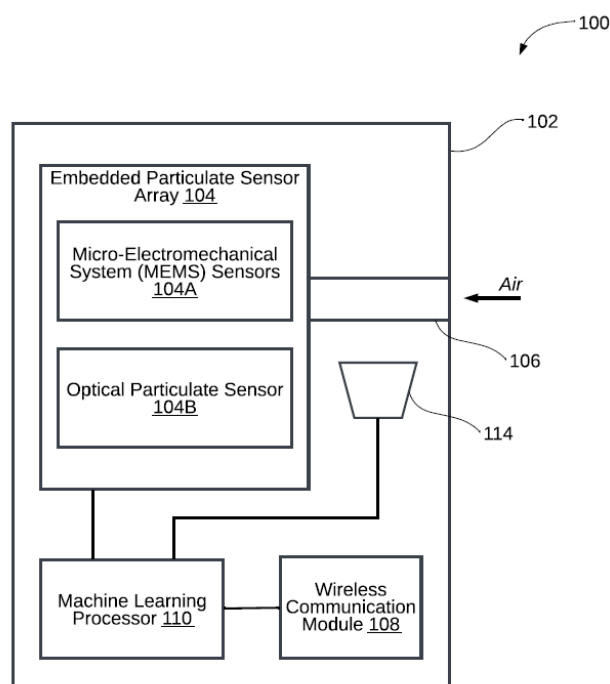
33: IN 31: 202511030767 32: 2025-03-29

54: AIR QUALITY MONITOR WITH EMBEDDED PARTICULATE SENSOR ARRAY

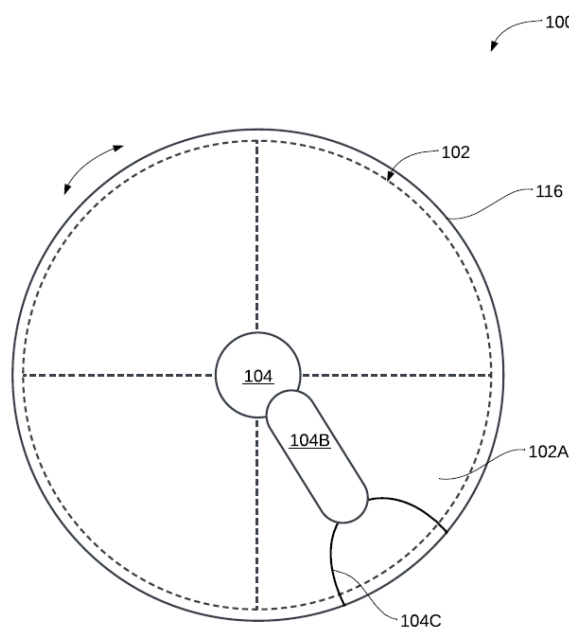
00: -

The present invention relates a system and method for monitoring air quality using an air quality monitor. The method includes drawing an air sample into a housing through a microfluidic channel at a controlled flow rate, mounted in an indoor environment. Particulate matter concentrations are detected using an embedded sensor array, measuring sizes from 0.1 to 10 micrometers with MEMS sensors and 0.3 to 10 micrometers with an optical sensor employing laser-based scattering. Data is collated via a data fusion model, enhancing

accuracy, while an electrostatic concentrator improves sensitivity for particles under 2.5 micrometers. An onboard machine learning processor classifies particulate types, and real-time data is transmitted wirelessly to a remote server. The method offers precise, comprehensive air quality analysis with secure, actionable insights for indoor environments.



to a cloud server via a wireless interface, encrypted using a blockchain protocol, and alert instructions are received. A personalized alert system, including haptic feedback, audible alarm, and visual display, notifies the user based on adherence patterns and cloud instructions. A motorized carousel aligns compartments for dispensing, enhancing precision and user compliance.



21: 2025/03301. 22: 2025/04/17. 43: 2025/10/30
51: A61J

71: C.G.C UNIVERSITY, MOHALI

72: MAHAJAN, Rohini, SAXENA, Rini

33: IN 31: 202511030770 32: 2025-03-29

54: ELECTRONIC MEDICATION DISPENSER WITH DOSAGE TRACKING AND ALERTS

00: -

The present invention relates a system and method for dispensing medication with dosage tracking and alerts. Medication doses are stored in compartments within an electronic dispenser's housing. A biometric sensor authenticates a user via fingerprint recognition before an electronic dispensing mechanism releases a dose from a selected compartment, guided by a pre-programmed schedule. A dosage tracking module with a machine learning processor tracks dispensing events, predicts adherence patterns, and updates the schedule. Real-time dispensing data is transmitted

21: 2025/03302. 22: 2025/04/17. 43: 2025/10/30

51: G06F

71: C.G.C UNIVERSITY, MOHALI

72: CHOUDHARY, Rashmi, VERMA, Deeksha

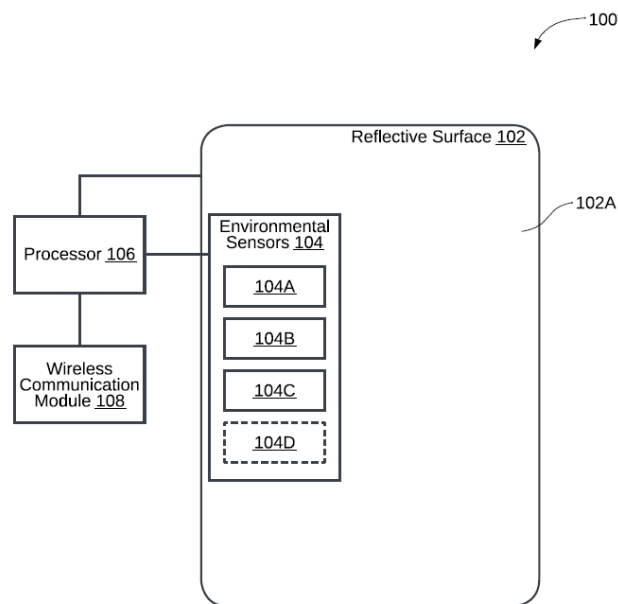
33: IN 31: 202511030764 32: 2025-03-29

54: SMART MIRROR WITH TOUCH INTERFACE AND ENVIRONMENTAL SENSORS

00: -

The present invention relates a system and method for dispensing medication with dosage tracking and alerts. Medication doses are stored in compartments within an electronic dispenser's housing. A biometric sensor authenticates a user via fingerprint recognition before an electronic dispensing mechanism releases a dose from a selected compartment, guided by a pre-programmed schedule. A dosage tracking module with a machine learning processor tracks dispensing events, predicts adherence patterns, and updates the schedule. Real-time dispensing data is transmitted to a cloud server via a wireless interface, encrypted

using a blockchain protocol, and alert instructions are received. A personalized alert system, including haptic feedback, audible alarm, and visual display, notifies the user based on adherence patterns and cloud instructions. A motorized carousel aligns compartments for dispensing, enhancing precision and user compliance.



21: 2025/03303. 22: 2025/04/17. 43: 2025/10/30
51: G08G

71: C.G.C UNIVERSITY, MOHALI

72: MANN, Vikasdeep Singh, KAUR, Preetinder

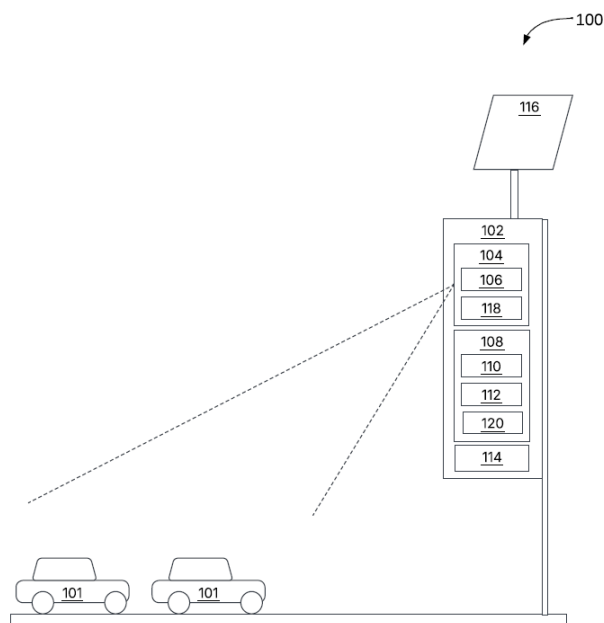
33: IN 31: 202511028203 32: 2025-03-25

54: PORTABLE TRAFFIC MONITOR WITH VEHICLE DETECTION AND REPORTING

00: -

The present disclosure relates to a portable traffic monitoring system and method thereof. The portable traffic monitoring system includes a housing deployable on roadside structures, integrating a LiDAR sensor with a solid-state laser array emitting pulsed infrared beams across a 120-degree field of view to detect vehicles within a 5-to-200-meter range. A time-of-flight circuit generates a 3D point cloud with 1 cm resolution, processed by an edge computing module featuring a CNN-based machine learning model to classify vehicles into categories like sedans and trucks based on size and speed. Real-time traffic reports, potentially including velocity estimates and license plate data from an optional camera, are transmitted via a wireless unit, powered by a solar panel. The system may offer autonomous,

high-accuracy traffic monitoring with noise filtering and anomaly detection capabilities.



21: 2025/03304. 22: 2025/04/17. 43: 2025/10/30

51: A23L

71: C.G.C UNIVERSITY, MOHALI

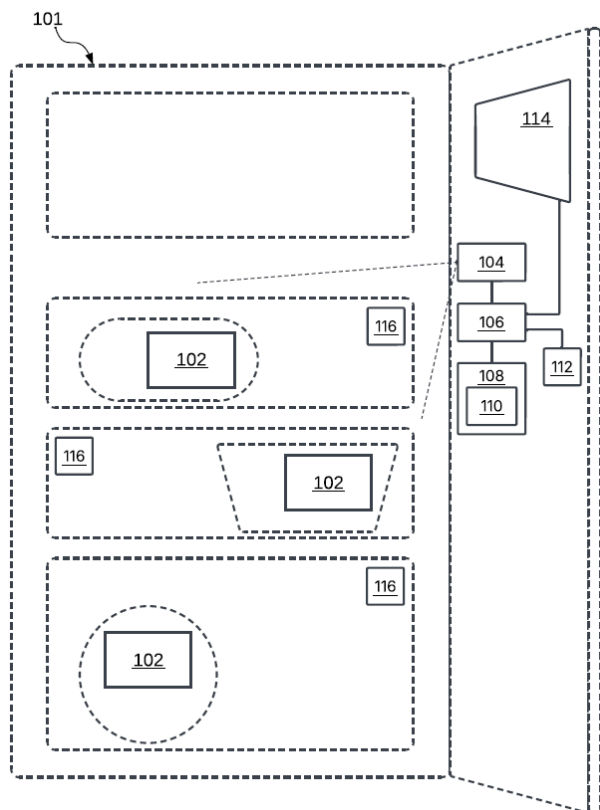
72: KUMAR, Puneet, GOYAL, Shivani

33: IN 31: 202511028198 32: 2025-03-25

54: REFRIGERATOR INVENTORY TRACKER WITH RFID INTEGRATION

00: -

The present disclosure relates to a refrigerator inventory tracker with RFID integration and methods thereof. RFID tags (102) may be affixed to food items, each encoded with unique identification and expiration data. An integrated RFID reader (104) continuously scans the internal compartment, and a processor (106) identifies the items. Machine learning models (110) predict spoilage risk based on expiration dates, usage patterns, and real-time temperature and humidity data from an IoT-enabled sensor (116), adjusting predictions with user feedback. The models categorize items into nutritional groups, recommend meals, detect anomalies, and generate re-stocking lists tailored to dietary preferences. Inventory updates and alerts are transmitted via a wireless communication module (112), while a display panel shows spoilage risks. This system enhances food management, reduces waste, and optimizes consumption through automation and intelligence.



21: 2025/03305. 22: 2025/04/17. 43: 2025/10/30

51: G01H

71: C.G.C UNIVERSITY, MOHALI

72: KAUR, Jaspreet, KUMAR, Preneet

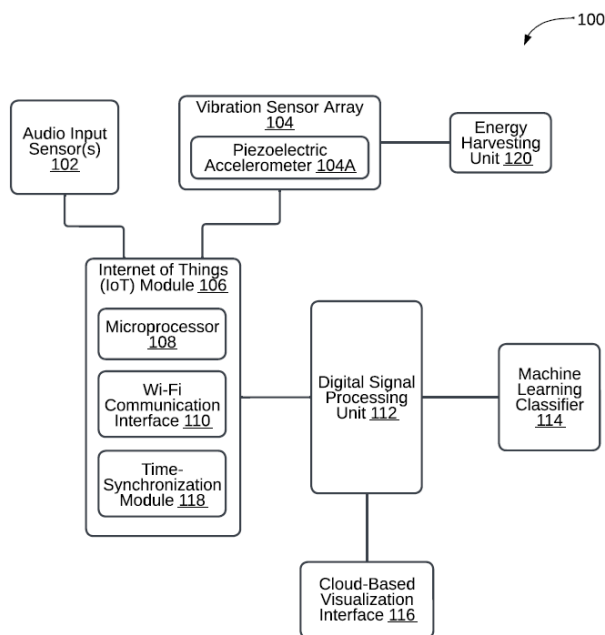
33: IN 31: 202511028200 32: 2025-03-25

54: NOISE POLLUTION DETECTOR WITH REAL-TIME AUDIO PROCESSING

00: -

The present disclosure relates to a system and method for detecting noise pollution in urban environments. Ambient sound is captured via audio input sensors, while environmental vibrations are detected using a vibration sensor array with piezoelectric accelerometers. An IoT module transmits the data for real-time spectral analysis by a digital signal processing unit, extracting frequency-domain features and low-frequency amplitude patterns. A machine learning classifier, trained on noise and vibration datasets, categorizes these into specific pollution types, such as vehicular traffic or industrial machinery. A cloud-based interface generates a real-time noise pollution map using geospatial coordinates. The system includes energy harvesting from vibrations to power the IoT module, enhancing

efficiency. The method provides precise, actionable noise pollution insights for urban management.



21: 2025/03306. 22: 2025/04/17. 43: 2025/10/30

51: F24H

71: C.G.C UNIVERSITY, MOHALI

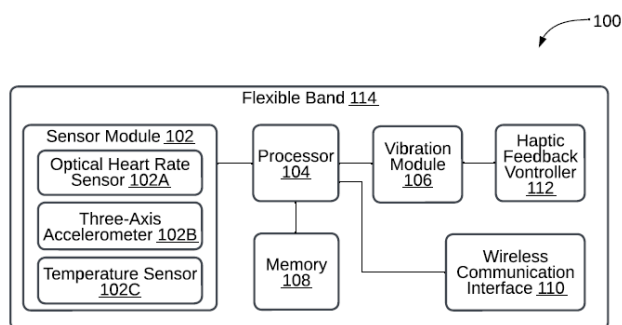
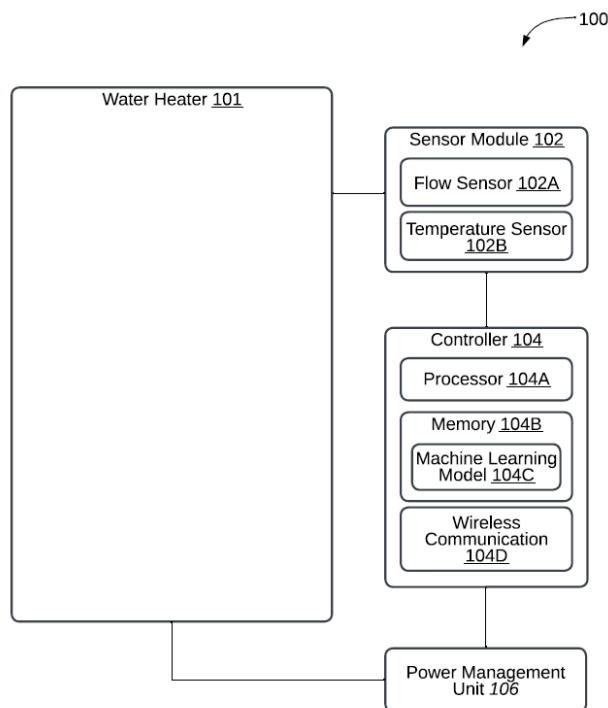
72: BANSAL, Jaya, KAUR, Jaspreet

33: IN 31: 202511028199 32: 2025-03-25

54: SMART WATER HEATER CONTROLLER WITH USAGE PATTERN RECOGNITION

00: -

The present disclosure relates to a method and system for controlling a smart water heater and optimizing energy efficiency and user convenience through predictive analytics. A sensor module with a flow sensor and a temperature sensor collects real-time water usage and tank temperature data, while a wireless communication interface receives user schedule data from a remote device. A controller analyzes the data using a machine learning model, updated via a recurrent neural network, to predict future water demand and dynamically adjust the heating schedule. The system includes external environmental temperature from an ambient temperature sensor and switches to a low-power mode during low demand. Notifications are sent to the re-mote device upon detecting usage anomalies, ensuring reliability. Integration with a smart home ecosystem via Zigbee enhances coordination, reducing energy waste.



21: 2025/03307. 22: 2025/04/17. 43: 2025/10/30
51: A61B

71: C.G.C UNIVERSITY, MOHALI
72: KAUR, Gagandeep, GAGNEJA, Kunal
33: IN 31: 202511028488 32: 2025-03-26

54: ELECTRONIC SLEEP TRACKER WITH VIBRATION-BASED WAKE-UP MECHANISM

00: -

The present disclosure relates to a system and method for sleep tracking and wake-up optimization using a wearable electronic device is disclosed. Physiological data, including heart rate variability and wrist motion patterns, is detected via a sensor module with an optical heart rate sensor and a three-axis accelerometer. A processor analyzes the data in real-time using a convolutional neural network-based algorithm to determine the user's sleep stage. An adaptive vibration pattern, generated by a vibration module, is tailored to the sleep stage and a user-specific sensitivity profile stored in memory, dynamically updated based on historical wake-up responses. The vibration pattern adjusts in intensity and frequency during sleep stage transitions and is delivered via a piezoelectric actuator in a flexible band. Sleep stage data is transmitted wirelessly to a remote device for display.

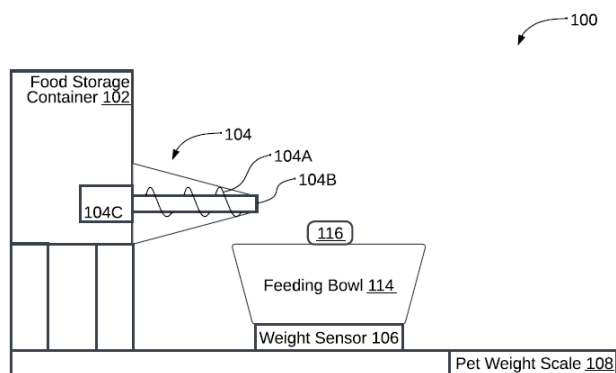
21: 2025/03308. 22: 2025/04/17. 43: 2025/10/30
51: A01K

71: C.G.C UNIVERSITY, MOHALI
72: GOYAL, Shanky, JEET, Rubal
33: IN 31: 202511028489 32: 2025-03-26

54: ELECTRONIC PET FEEDER WITH WEIGHT SENSING AND DISPENSING CONTROL

00: -

The present disclosure relates to a system and method of controlling pet feeding using an electronic pet feeder. The system stores pet food in a food storage container 102 and dispenses precise portions into a feeding bowl 114 via a dispensing mechanism 104 with a variable aperture 104B, adjusted by a stepper motor 104C. A weight sensor 106 measures real-time feed weight, while a pet weight scale 108 tracks pet weight. A processor 110 receives this data, applying a machine learning model 110A to adapt portions based on historical feeding patterns. Feeding data is transmitted to a remote device via a wireless communication module 112 over an IoT network. This system ensures accurate, customized feeding, enhances pet health, and enables remote monitoring, optimizing pet care efficiency and convenience.



21: 2025/03309. 22: 2025/04/17. 43: 2025/10/30
51: E06B

71: C.G.C UNIVERSITY, MOHALI

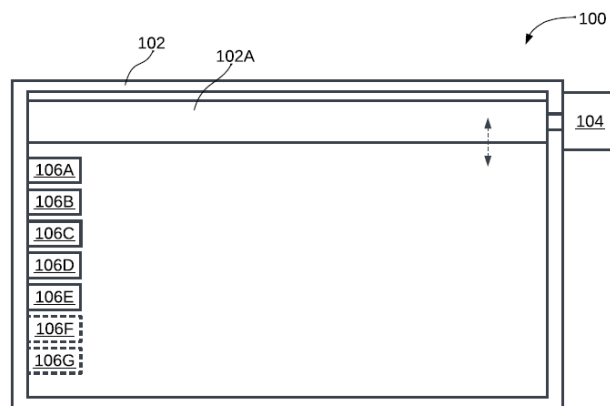
72: Gupta, Anish, SHAHI, Ashima

33: IN 31: 202511028491 32: 2025-03-26

54: AUTOMATED WINDOW VENTILATION SYSTEM WITH AIR QUALITY FEEDBACK

00: -

The present disclosure relates to an automated window ventilation with air quality feedback. The method includes measuring real-time indoor and outdoor air quality parameters, including humidity and temperature, using sensors mounted in a window frame. A microcontroller with a machine learning module processes these parameters, calculating a combined air quality index to predict an optimal window opening position. A motorized window actuator, powered by a solar cell array, adjusts the window panel accordingly using a piezoelectric motor for precision. Air quality feedback and window status are transmitted to a user device via a wireless interface, enabling an augmented reality visualization of recommended adjustments. The system dynamically responds to user-configurable air quality thresholds, ensuring optimal ventilation and energy efficiency while enhancing indoor air quality management.



21: 2025/03310. 22: 2025/04/17. 43: 2025/10/30
51: E05B

71: C.G.C UNIVERSITY, MOHALI

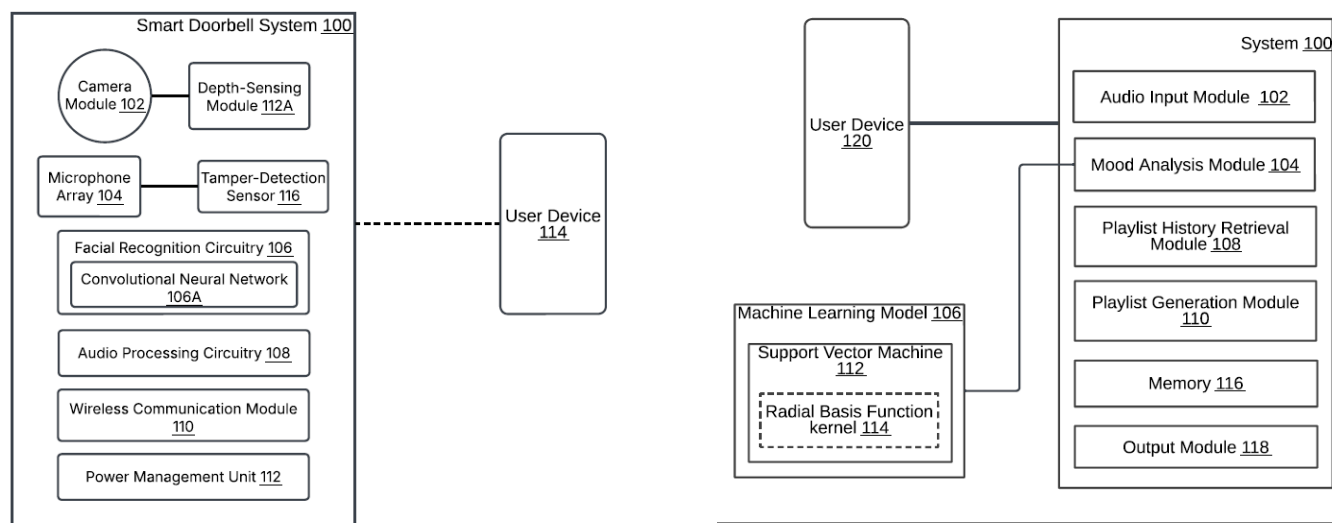
72: TYAGI, Lalit Kumar, GUPTA, Anish

33: IN 31: 202511028490 32: 2025-03-26

54: SMART DOORBELL WITH FACIAL RECOGNITION AND AUDIO PROCESSING CIRCUITRY

00: -

The present disclosure relates to a smart doorbell that captures video and audio data of a visitor using a camera module and microphone array. Facial recognition circuitry with a convolutional neural network processes the video data in real-time on edge-computing hardware, identifying the visitor by comparing facial features to a local database, enhanced by a depth-sensing module for accuracy. Audio processing circuitry with beamforming and noise suppression isolates the visitor's voice, extracting voiceprint features and classifying intent via a natural language processing engine. An alert, including the visitor's identity and processed audio, is encrypted with a quantum-resistant algorithm and transmitted wirelessly to a user device. Power allocation adjusts dynamically based on motion, while a tamper-detection sensor triggers secondary authentication if interference is detected, ensuring security and efficiency.



21: 2025/03311. 22: 2025/04/17. 43: 2025/10/30

51: G06Q

71: C.G.C UNIVERSITY, MOHALI

72: MITTAL, Saurabh, GOYAL, Vinay Kumar

33: IN 31: 202511026702 32: 2025-03-23

54: PERSONALIZED MUSIC PLAYLIST GENERATOR WITH MOOD-BASED AUDIO PROCESSING

00: -

The present invention relates to a system and method for generating a personalized music playlist based on user mood and playlist history. An audio signal from a user environment, including ambient sound or user speech, may be received over a sampling duration and processed to extract acoustic features such as mel frequency cepstral coefficients and root mean square energy. A pre-trained machine learning model may classify a current user mood state with a confidence score. User playlist history, including previously played music tracks with metadata like play frequency and timestamps, may be accessed. A personalized music playlist may be created by selecting and combining mood -matched tracks from a music library and frequently played tracks from the history, ranked by a scoring function, and provided to a user device for playback.

21: 2025/03312. 22: 2025/04/17. 43: 2025/11/18

51: E04B; E04H

71: ZHEJIANG UNIVERSITY OF SCIENCE & TECHNOLOGY

72: WANG, Fengzhi, CHEN, Shixin, XIA, Yongqiang, MEI, Danyang

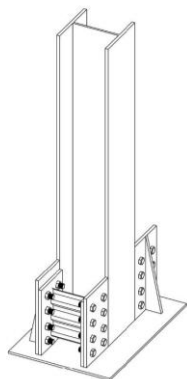
33: CN 31: 202510374025.6 32: 2025-03-27

54: ASSEMBLY METHOD AND STRUCTURE FOR A STEEL - COLUMN BASE JOINT WITH SEISMIC RESILIENCE

00: -

The present invention discloses an assembly method and structure for a steel - column base joint with seismic resilience. The invention involves welding a connecting plate onto the surface of a base. Subsequently, a flange plate is welded to the side of a steel column. After that, the steel column is vertically placed at the center of a bottom plate, and the flange plate and the connecting plate on the same side are arranged oppositely at intervals, and the connecting plate abuts against the steel column. Then, an energy - dissipation device is placed between the flange plate and the connecting plate, and a number of high - strength bolts are utilized to connect the energy-dissipation device to the connecting plate and the flange plate respectively. In this application, by only maintaining the contact between the steel column and the bottom plate, the vertical constraint between the bottom of the steel column and the bottom plate is released. The steel column experiences rigid rotation and remains in an elastic state at all times. The damage of the joint is concentrated in the energy - dissipation device. This ensures that the column base joint has controllable

rocking performance under earthquake action and reliable shear performance, thereby achieving the rocking and self - centering of the steel - column base joint.



21: 2025/03318. 22: 2025/04/17. 43: 2025/10/30

51: H01C; H01H; H01T

71: VAN HEERDEN, Anton

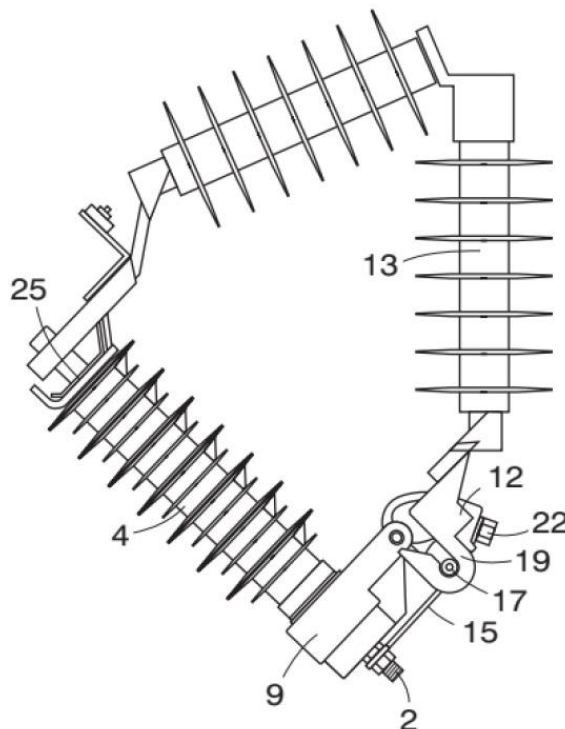
72: VAN HEERDEN, Anton

33: ZA 31: 2022/10396 32: 2022-09-20

54: DROPOUT SURGE ARRESTOR

00: -

A dropout surge arrestor (1) includes an electrically insulating body (4), a live terminal (3) at an operatively upper end thereof, and a ground lead terminal (2) at an operatively lower end thereof. An adapter (9) is permanently bonded to an operatively lower end of the surge arrestor, and has an articulated electric contact assembly (11) at a position radially outwards of an axis of a socket (8) of the adapter, the articulated electric contact assembly (11) including a mechanism for holding it in an operative position with a ground lead (15) or resilient member operatively connecting it to the ground lead terminal (2) in a normal operative position and for releasing the articulated electric contact assembly to provide for drop out of the surge arrestor in response to activation of a ground lead disconnecter of the surge arrestor.



21: 2025/03319. 22: 2025/04/17. 43: 2025/10/30

51: A47B

71: WUHU INSTITUTE OF TECHNOLOGY

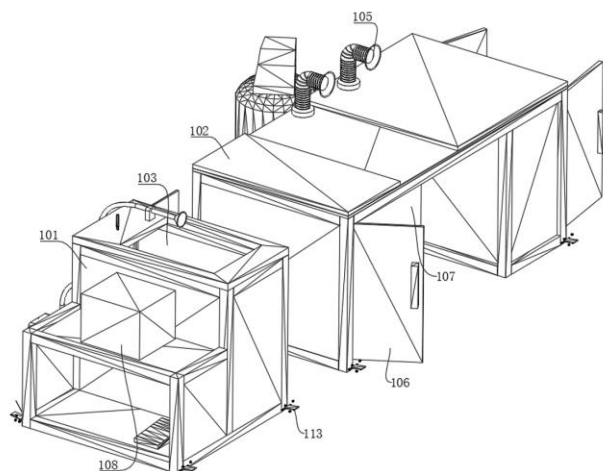
72: JI, Kewen, PU, Qiangsong, XU, Liying

54: SAFE RECYCLABLE LARGE PAINT DRY AND WET GRINDING VISUAL COLOR IDENTIFICATION WORKBENCH

00: -

The present invention relates to the field of lacquer technology, specifically to a safe recyclable lacquer dry and wet grinding visual color recognition workbench, comprising a first mounting bracket, a dry and wet grinding assembly provided on one side of the first mounting bracket, the dry and wet grinding assembly comprising a sander and a water tank set on the first mounting bracket, and a shade room operating assembly provided on one side of the first mounting bracket. The shade house operating assembly includes a shade house set on a second mounting frame, a water purification assembly is provided in the first mounting frame, the water purification assembly includes a water purification bucket set in the first mounting frame, the water purification bucket is connected to it by a water pump input set on one side, the water pump output is connected to a circulating pipe, the water purification bucket is provided with an outlet pipe connected to a sink, and the water purification

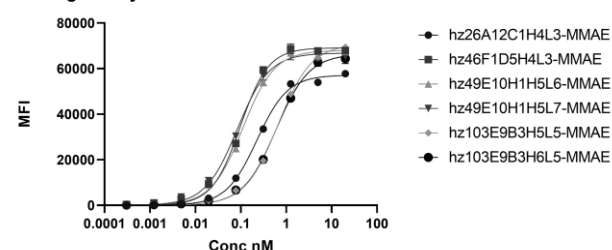
bucket is provided with a rotating lifting mechanism and a filtration mechanism. The present invention is able to realize water recycling by setting up water purification components; by setting up a filtering mechanism and an anti-clogging mechanism, it realizes filtered water recycling and at the same time avoids the phenomenon of clogging during filtration; by setting up a cleaning mechanism, it is able to carry out cleaning of the filtering mechanism.



21: 2025/03321. 22: 2025/04/17. 43: 2025/10/30
51: A61K; C07K; A61P
71: CURON BIOPHARMACEUTICAL (SHANGHAI) CO., LIMITED
72: WANG, Ji, DING, Zhilou, CHEN, Zhihong, GU, Jinming, YANG, Qiumei
33: CN 31: 202211317321.5 32: 2022-10-26
54: HUMANIZED L1CAM ANTIBODY-DRUG CONJUGATE

00: -
Provided in the present invention are an anti-L1CAM antibody-drug conjugate, and a preparation method therefor and the pharmaceutical use thereof. In particular, provided in the present invention are an antibody-drug conjugate (ADC) containing an anti-L1CAM antibody conjugated to MMAE or a derivative thereof; a pharmaceutical composition containing the ADC; and the use thereof in the preparation of a drug for treating diseases or conditions mediated by L1CAM, particularly, the use thereof in the preparation of anti-cancer drugs.

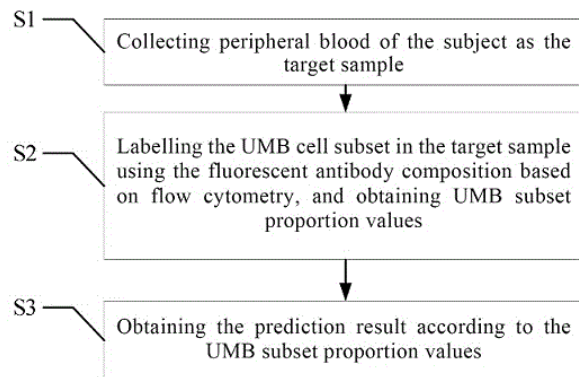
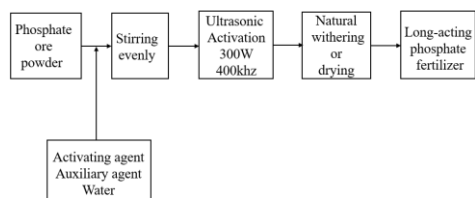
Binding affinity of anti-L1CAM ADCs to cellular L1CAM



21: 2025/03336. 22: 2025/04/22. 43: 2025/10/30
51: C05G

71: Xinjiang Agricultural University
72: Kai Zhang, Bing Chen, Junhui Cheng, Huimin Ma, Jiandong Sheng, Tayier Tuniyaz
33: CN 31: 202510313573.8 32: 2025-03-17
54: PREPARATION METHOD OF LONG-ACTING PHOSPHATE FERTILIZER AND APPLICATION THEREOF

00: -
The present invention relates to a preparation method of long-acting phosphate fertilizer and an application thereof. The steps of the preparation method of long-acting phosphate fertilizer are as follows: step 1: putting phosphate ore powder into a container, adding an activating agent and an auxiliary agent to the container, stirring these substances evenly, adding water and continue to stirring and mixing evenly; step 2: placing the container containing the mixed solution from step 1 in an ultrasonic generator and performing ultrasonic activation at 300 W and 40 kHz; step 3: removing the substance activated by ultrasound in step 2 from the ultrasound generator, natural withering or drying, and obtaining the long-acting phosphate fertilizer. The present invention uses low-grade phosphate ore powder as raw material and prepares long-acting phosphate fertilizer through ultrasonic assisted organic activation technology, which can significantly improve the activation effect of phosphate ore powder. The long-acting phosphorus fertilizer with moderate effectiveness and long-lasting fertilizer efficiency prepared in this way can be used in perennial crops, thereby achieving low energy consumption and pollution-free production processes and can be used in green or organic agriculture.



21: 2025/03369. 22: 2025/04/22. 43: 2025/10/29

51: C07K G01N

71: CENTRAL HOSPITAL OF MINHANG DISTRICT, SHANGHAI

72: LAI, Nannan, DONG, Qiongzhu, MENG, Zhefeng, RUAN, Danping, LI, Quanfu, NI, Meiping, ZHANG, Lumin, BAO, Yufang

33: CN 31: 202411353241.4 32: 2024-09-26

54: FLUORESCENT ANTIBODY COMPOSITION FOR PREDICTING SLE ACTIVITY LEVEL, KIT AND USE

00: -

The present disclosure provides a fluorescent antibody composition for predicting the SLE activity level, a kit and a use, relating to the technical field of biomedical sciences. In the use, prediction of the SLE activity level is obtaining subset proportion values by labeling a UMB (Unswitched memory B) cell subset with an antibody in the antibody composition, and obtaining a prediction result according to the subset proportion values. The present disclosure provides, through discovery of remarkable decrease in the UMB cell proportion in peripheral blood of SLE patients, a new immune detection marker, and can more accurately distinguish the active and inactive SLE patients. The method of labeling the UMB cell with the antibody and calculating the proportion thereof exhibits high sensitivity and specificity, provides new tool and data support for immunological researches and clinical treatment of SLE, and improves accuracy and efficiency of researches.

21: 2025/03404. 22: 2025/04/23. 43: 2025/11/03

51: G06K

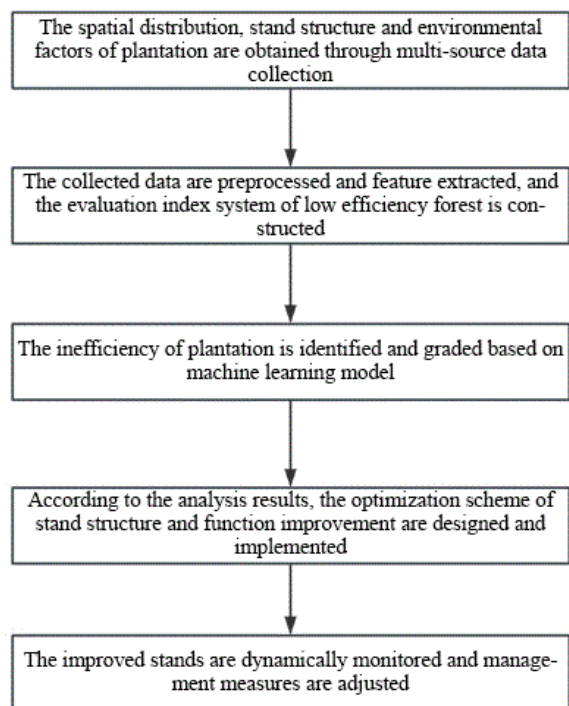
71: Research Center for Eco-Environmental Sciences Chinese Academy of Sciences

72: Wei Wei

54: A STRUCTURE-FUNCTION IMPROVEMENT METHOD OF LOW-EFFICIENCY TREE PLANTATION BASED ON DATA ANALYSIS

00: -

The invention discloses a structure-function improvement method of low-efficiency tree plantation based on data analysis. It aims to solve the problems such as low efficiency, lack of precision and lack of systematic improvement of traditional forestation and plantation. The method obtained the spatial distribution, stand structure and growth state information of the planted forest through multi-source data acquisition, including remote sensing image, ground survey and environmental factor data. The evaluation index system is constructed by data preprocessing and feature extraction. Accurate identification and classification of low-efficiency forest based on machine learning model. According to the analysis results, the optimization scheme is designed, including density adjustment, tree species optimization and soil improvement. Dynamically monitoring and adjusting through the Internet of Things and remote sensing technology. The results showed that the method could increase the accuracy of stand identification to more than 90%, increase the carbon storage by 20%-25% and increase the DBH growth rate by about 50% within 3 years, which significantly improved the ecological function and economic benefits of the plantation.



21: 2025/03431. 22: 2025/04/23. 43: 2025/11/07
51: A61M

71: Shaanxi Energy Institute

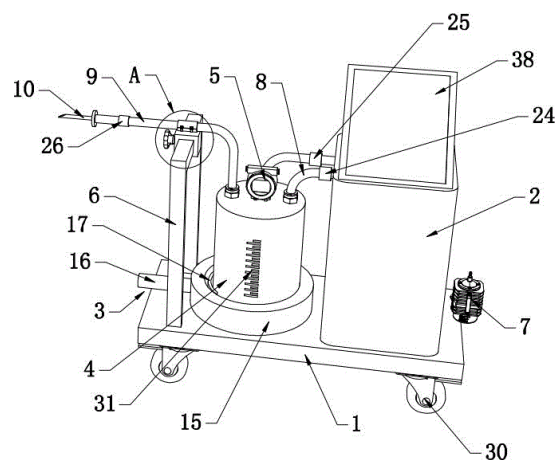
72: Anqi Wu, Wei Ren, Li Zhang

54: A CRITICAL CARE DRAINAGE DEVICE AND A DRAINAGE SYSTEM

00: -

The invention discloses a critical care drainage device and a drainage system, comprising a base, a control device is arranged on the base, a fixing base is arranged on the base, a liquid collection bucket is arranged in the fixing base, a liquid collection bucket is arranged on the top of the liquid collection bucket, a supporting bracket is fixed on the base, an air pump is arranged in the control device, and a liquid collection bucket is arranged on the top of the base. A suction pipe is connected between the intake end of the air pump and the liquid collection bucket, a hose is connected at the top of the liquid collection bucket, a needle is arranged on one side of the hose away from the liquid collection bucket, and a sampling mechanism is arranged between the liquid collection bucket and a control device. The critical care drainage device and drainage system of the invention realize efficient, safe and convenient drainage operation through intelligent and modular

design, and significantly improve the nursing quality and medical work efficiency of critically ill patients.



21: 2025/03531. 22: 2025/04/25. 43: 2025/11/07
51: E02F

71: No. 719 Research Institute of China State Shipbuilding Corporation Limited

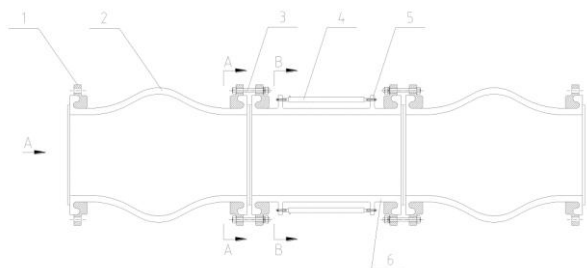
72: ZHANG Lei, LEI Chengyou, WANG Li, ZHOU Liubin, DENG Liangliang, LI Senchen

33: CN 31: 202510394392.2 32: 2025-03-31

54: ACTIVE-PASSIVE HYBRID VIBRATION REDUCTION PIPING

00: -

An active-passive hybrid vibration reduction piping, comprising a mounting joint structure (1), a colloid (2), a fastener (3), a piezoelectric actuator (4), a piezoelectric-actuator mounting fastener (5), and a cylindrical inertial body (6); the mounting joint structure (1) is vulcanizedly joined to the colloid (2); two colloids (2) are joined to the cylindrical inertial body (6) via the mounting joint structure (1) through a joining way of installation via the fastener (3); four piezoelectric actuators (4) are mounted on the cylindrical inertial body (6) via the fastener (5); the cylindrical inertial body (6) is a steel structural member and forms a "sandwich" structure with two flexible colloids (2) to achieve vibration decoupling.



21: 2025/03538. 22: 2025/04/25. 43: 2025/11/12

51: A47F; B65D

71: COMEC INDUSTRIES (PTY) LTD

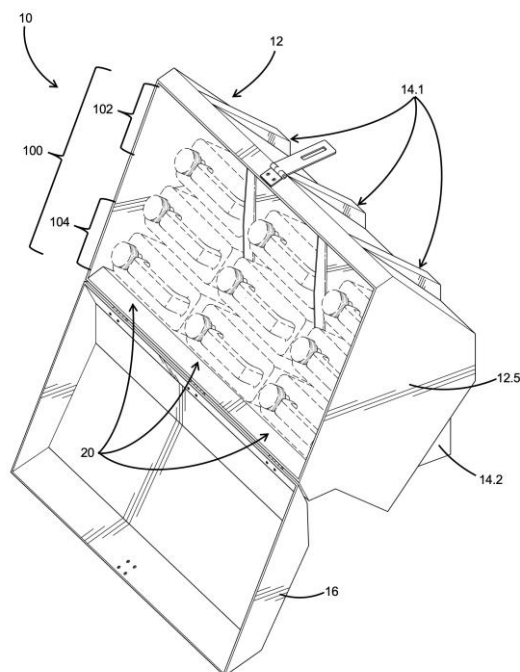
72: MORETTI, Gian-Mauro

33: ZA 31: 2024/00933 32: 2024-01-29

54: BOTTLE DISPENSER

00: -

This invention relates to bottle dispensers. In particular, the invention relates to a lockable bottle dispenser for safely storing hazardous products and efficiently rotating stock. The bottle dispenser includes a chest which has an internal storage compartment, shaped and dimensioned to receive a plurality of bottles, and a support formation which maintains the chest in a tilted orientation such that it is angled forwardly to store the bottles in an inclined stacked formation. The bottle dispenser is operable to dispense the bottles in a first-in-first-out fashion as the bottles in the front are more easily accessible than those in the back due to the tilted orientation of the chest. When a bottle is removed from the front of the chest, the subsequent bottle slides into the vacant space by gravity.



21: 2025/03545. 22: 2025/04/25. 43: 2025/11/12

51: H04H; H04W

71: CENTRE FOR DEVELOPMENT OF
TELEMATICS

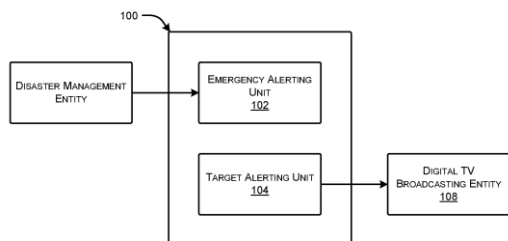
72: BASU, Saurabh, SHARMA, Sandeep, BEHERA,
Suvam Suvabrata, KUMAR, Anugandula Naveen,
YADAV, Kamlesh Kumar, SACHDEV, Smriti,
DALELA, Pankaj Kumar

33: IN 31: 202211055723 32: 2022-09-28

54: EMERGENCY ALERTING SYSTEM FOR TRANSMITTING AN ALERT MESSAGE TO USERS THROUGH TV INFRASTRUCTURE

00: -

The present disclosure relates to an emergency alerting system. The emergency alerting system includes an emergency alerting unit and a target alerting unit. The emergency alerting unit is configured to receive an alert information from disaster management entities. The emergency alerting unit further identifies the target area based on the alert information and configured it into a standardized format. The target alerting unit configured to receive the standardized alert information from the emergency alerting unit. The target alerting unit further maps the target area to a geographical administrative boundaries format information. The target alerting unit further configured to transmit, a second information, to the one or more digital television broadcasting entities for displaying an alert message.



21: 2025/03561. 22: 2025/04/25. 43: 2025/11/12

51: A61K; C08B; C08L

71: FARMIGEA S.P.A.

72: SANSÒ, Marco Aldo, NEGGIANI, Fabio

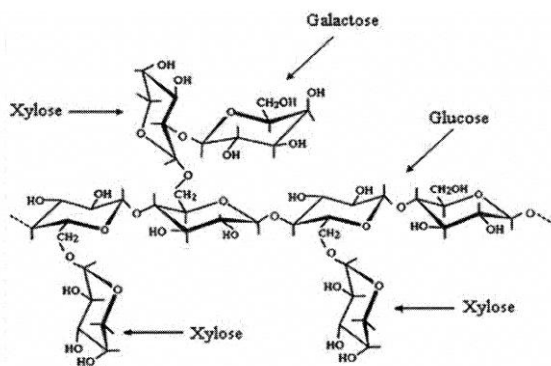
33: IT 31: 102022000022101 32: 2022-10-26

54: A DERIVATIVE OF TAMARIND SEED POLYSACCHARIDE AND A PREPARATION PROCESS THEREOF

00: -

A derivative of tamarind seed polysaccharide (TSP) is disclosed, and a process for its preparation. In particular, said derivative is a sulphated TSP having a selected sulphation degree and molecular weight, showing improved workability, stability and compatibility with pharmaceutical ingredients.

Therefore, a pharmaceutical composition, as well as a biomaterial, comprising said sulphated TSP are also disclosed. Additionally, the cosmetic use of the sulphated TSP is reported. Finally, a process of preparation of said sulphated TSP is described.



21: 2025/03562. 22: 2025/04/25. 43: 2025/11/18

51: A47F

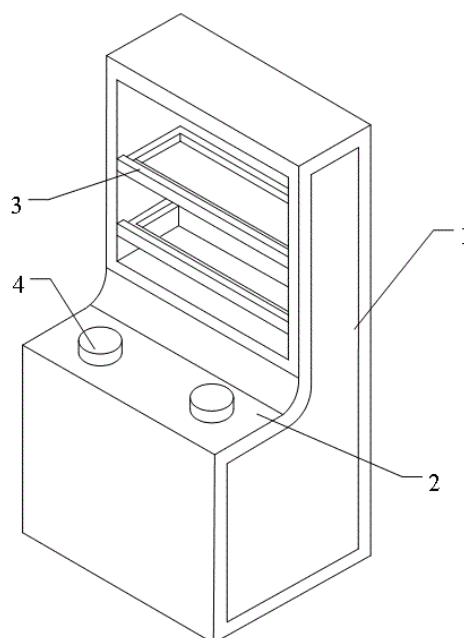
71: Nantong Vocational University

72: Jinxin GE, Fuqiang GE

54: MULTI-FUNCTIONAL MERCHANDISE STAND FOR E-COMMERCE LIVESTREAMING

00: -

A multi-functional merchandise stand for e-commerce livestreaming is disclosed, which belongs to the technical field of e-commerce livestreaming appliances, including a fixed frame, a display stand is arranged on the fixed frame, an omni-directional display assembly is arranged on the surface of the display stand, a multi-layer display rack is arranged above the fixed frame, and an audience interactive control system is further integrated on the fixed frame. The present invention adopts the aforementioned multi-functional merchandise stand for e-commerce livestreaming, which has all-round display, multi-layer display, integrated lighting function and interactive function, so as to improve the efficiency of merchandise display and user experience.



21: 2025/03563. 22: 2025/04/25. 43: 2025/11/12

51: G01C

71: ANQING NORMAL UNIVERSITY

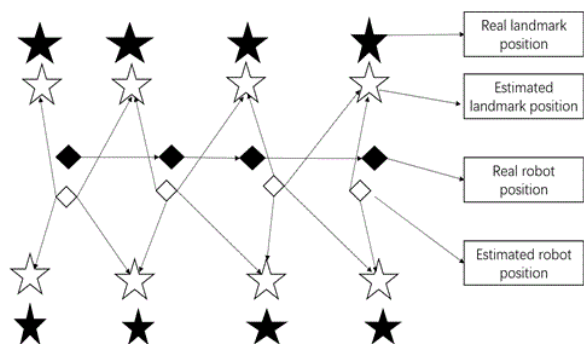
72: DONG, Xiaoming

54: MOBILE ROBOT NAVIGATION AND MAPPING SYSTEM

00: -

The invention relates to the field of mobile robot navigation, in particular to a mobile robot navigation and map construction system, which comprises the following steps: the robot realizes the estimation of itself and the position of road signs mainly through visual information, generates a navigation map through the estimation of the position of road signs,

and finally realizes path exploration through backtracking trees. In the process of robot path exploration, a topological map is formed by two-step filtering method: finding road signs, identifying road signs and gradually confirming the information of road signs.



21: 2025/03620. 22: 2025/04/29. 43: 2025/11/18
51: C12N

71: Qingdao University

72: Shan YANG, Wenhua XU, Haijun LU, Liang ZHANG, Dan HAN, Hongbo LIU, Shunxian XIA, Xiaomin WANG, Zhen SHANG, Nailong PAN

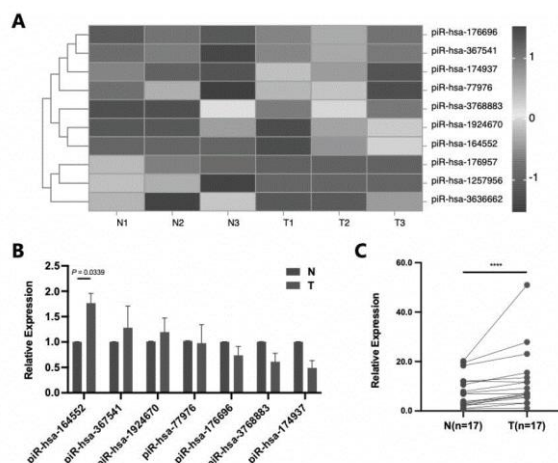
33: CN 31: 2025103861763 32: 2025-03-31

54: AN APPLICATION FOR SERUM EXOSOME PI RNA

00: -

The invention belongs to the field of biomedical technology and tumor science and technology, and specifically relates to an application for a serum exosome piRNA, the serum exosomal piRNA as a molecular marker for the detection of head and neck squamous cell carcinoma in the search for potential targets to overcome the cancer, serum-derived exosome piR-hsa-164552 is used for early detection of head and neck squamous cell carcinoma to improve the clinical detection performance of head and neck squamous cell carcinoma; by exploring the effect of piR-hsa-164552 on the function of head and neck squamous cell carcinoma cell lines, the potential targets to overcome cancer are found. The specific process is as follows: firstly, piR-hsa-164552, which is significantly highly expressed in head and neck squamous cell carcinoma, is screened from tissue, cell and serum exosomes; secondly, the detection performance of serum exosome piR-hsa-164552 is statistically analyzed by qRT-PCR technology and constructing ROC curve;

finally, piR-hsa-164552 mimics and inhibitors are transfected into head and neck squamous cell carcinoma Fadu and Cal27 cell lines to further explore the effect of piR-hsa-164552 on head and neck squamous cell carcinoma cell function.



21: 2025/03624. 22: 2025/04/29. 43: 2025/11/17
51: C12N

71: Beijing Academy of Agriculture and Forestry Sciences

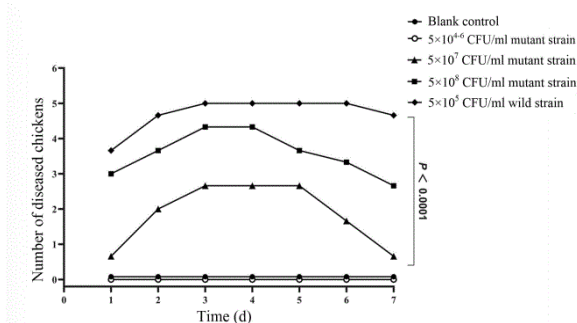
72: Hongjun WANG, Chen MEI, Ying LIU, Yan ZHI, Zhenyi LIU

33: CN 31: 202410881990.8 32: 2024-07-02

54: ATTENUATED AVIBACTERIUM PARAGALLINARUM STRAIN AND CONSTRUCTION METHOD AND USE THEREOF

00: -

The present disclosure belongs to the field of biotechnologies, and specifically relates to an attenuated Avibacterium paragallinarum strain and a construction method and use thereof. An attenuated Avibacterium paragallinarum strain with an accession number of CGMCC No. 30442 is provided. The attenuated strain can effectively stimulate the immune response in specific pathogen free (SPF) chickens to provide a favorable protective effect without causing obvious adverse reactions. The attenuated strain is a potential novel candidate strain for live vaccines, and has an important application value in the control of infectious coryza of chickens.



21: 2025/03640. 22: 2025/04/29. 43: 2025/11/17

51: C07D

71: XINJIANG CAREER TECHNICAL COLLEGE

72: HE, Yan, LIU, Yu, SUN, Qingguo, WANG, Mingquan, HE, Chaoyue, LI, Xin, YANG, Weiqiang, LI, Binrui, XU, Weiyi, CONG, Houluo, BAI, Xue, SUN, Xun, CHENG, Xiaobo

54: METHOD FOR PREPARING PALIPERIDONE

00: -

The present disclosure belongs to the technical field of pharmaceutical chemistry. A method for preparing paliperidone is provided, including the steps of: (a) reacting (2,4-difluorophenyl)(piperidin-4-yl)methanone hydrochloride, hydroxylamine hydrochloride, N,N-dimethylethanolamine, and methanol to obtain a compound B; reacting the compound B with potassium hydroxide and acetone to obtain a compound C; and reacting the compound C with 3-(2-chloroethyl)-2-methyl-9-hydroxy-6,7,8,9-tetrahydro-4H-pyrido[1,2-a]pyrimidin-4-one, diisopropylamine, and methanol to afford paliperidone. The preparation method of the present invention offers the following advantages: readily available starting materials and a simplified process, resulting in improved product yield; mild reaction conditions without requiring extreme temperatures, high pressure, or other harsh parameters; high atom utilization efficiency across all steps, aligning with the principle of atom economy; and high-purity paliperidone as the final product, reducing adverse effects and side effects in subsequent applications.

21: 2025/03648. 22: 2025/04/29. 43: 2025/11/17

51: A01G

71: Jilin Agricultural University

72: ZHANG Bo, LI You, LI Xiao

33: CN 31: 2023113540844 32: 2023-10-19

54: AGARICUS BISPORUS CULTURE MATERIAL PREPARED BY MEANS OF FERMENTING CORN

STRAW AND DEER DUNG, AND PREPARATION METHOD THEREFOR

00: -

An *Agaricus bisporus* culture material prepared by means of fermenting corn straw and deer dung, wherein the *Agaricus bisporus* culture material is prepared by means of using corn straw and deer dung as a cultivation medium, and fermenting same four times. A method for preparing an *Agaricus bisporus* culture material by means of fermenting corn straw and deer dung, which method comprises: mixing raw materials, fermenting same four times, allowing same to experience the primordia stage and performing fruiting management to prepare and obtain the *Agaricus bisporus* culture material. By means of the medium replacement of and the improved preparation process for the *Agaricus bisporus* culture material, a new method can be provided for the treatment of more agricultural waste, and the problem of poor compost quality caused by the poor structural properties of the raw materials is also ameliorated, so that the selection range of *Agaricus bisporus* media is expanded, and the industrial development of *Agaricus bisporus* is promoted.

21: 2025/03649. 22: 2025/04/29. 43: 2025/11/17

51: B23B

71: SHANGHAI HONGTAN INTELLIGENT TECHNOLOGY CO., LTD

72: ZHAO, Jie, ZHOU, Zhipeng, ZHANG, Yanping

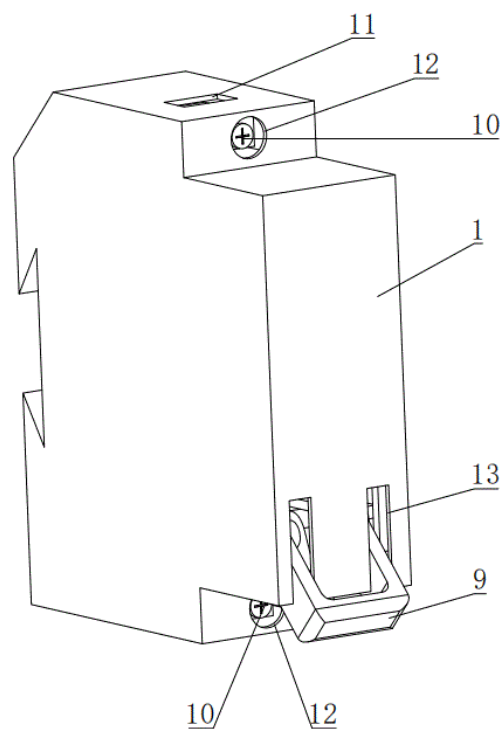
54: DISTRIBUTION IOT LOW-VOLTAGE INTELLIGENT SWITCH

00: -

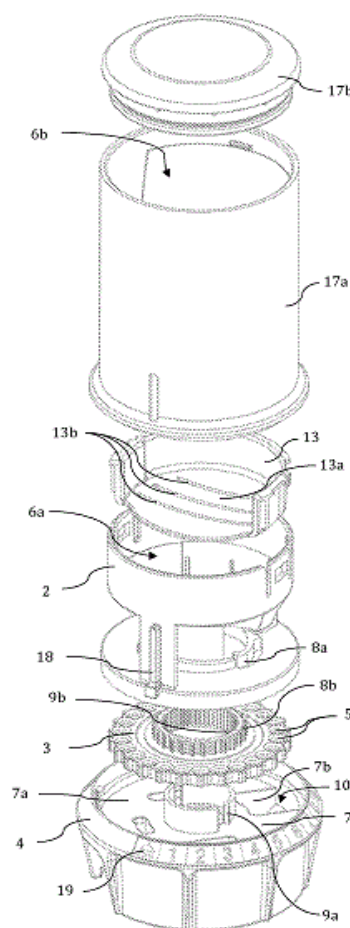
The present invention belongs to the field of electrical switch technology and discloses a distribution IoT low-voltage intelligent switch, comprising a shell. The shell is equipped with an insulation rod, and the upper end surface of the insulation rod is fixed with a lower copper sheet. Above the insulation rod is an electromagnetic coil, and the bottom of the electromagnetic coil is fixed with an upper copper sheet. The electromagnetic coil is fitted with a magnet, and when the electromagnetic coil is powered on, the magnet is subjected to a downward repulsive force. The lower end of the magnet contacts the insulation rod, and below the insulation rod is a rotating shaft. The middle of the rotating shaft is coaxially equipped with

a cam, and the two ends of the rotating shaft are equipped with limit modules. The limit modules enable the rotating shaft to be in two states: when the shaft is stationary, the cam can only lift the insulation rod upward to make the upper copper sheet contact with the lower copper sheet, or release the insulation rod downward to separate the

Equipped with a handle, the rotating shaft can switch between two states under the drive of the handle, it can also be separated from the handle when it is fixed; This invention solves the problem of the current lack of an intelligent switch that can trip regardless of whether the handle is obstructed and does not affect subsequent use.



each other. The separating unit (3) comprises recesses or through holes (5) for containing solid elements. A compartment (6a-b) for containing the solid elements is formed at least partly by said feeding unit. The feeding unit comprises feeding opening(s) (2a) towards the separating unit. The dispensing unit (4) comprises a guiding surface (7) of the dispensing unit co-acts with the separating unit (3), the guiding surface comprising a retaining portion (7a) and a dispensing portion comprising a dispensing opening (7b). A first one-way rotation mechanism (8a-b) allows rotation of the feeding unit (2) relative the separating unit (3) solely in a first direction of rotation. A second one-way rotation mechanism (9a-b) allows rotation of the separating unit (3) relative the dispensing unit (4) solely in a second direction of rotation. Stepping means subdivides rotation in the first direction into angular steps which correspond to an angular distance between the recesses or through holes (5).



21: 2025/03650. 22: 2025/04/29. 43: 2025/10/16

51: B65D A61J A47F

71: NAVAMEDIC AB

72: SPIRA, Jack, ERIKSSON, Rasmus

33: SE 31: 2251250-3 32: 2022-10-28

54: DEVICE FOR DOSING AND DISPENSING SOLID ELEMENTS SUCH AS MEDICINE TABLETS

00: -

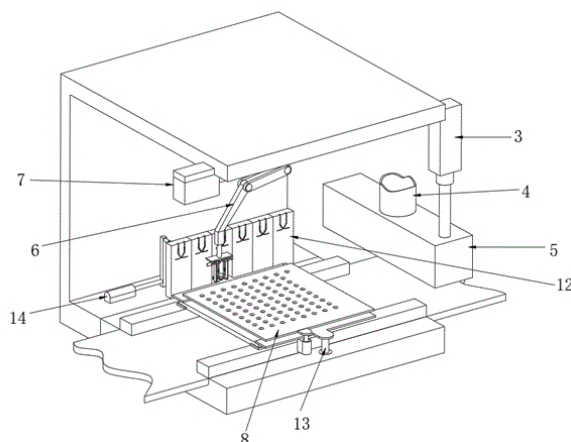
Device for dosing and dispensing solid elements, comprising a feeding unit (2), a separating unit (3), and a dispensing unit (4) being rotatable relative

21: 2025/03652. 22: 2025/04/29. 43: 2025/11/17
 51: B21F
 71: NANJING VOCATIONAL COLLEGE OF
 INFORMATION TECHNOLOGY
 72: Fan CHEN, Zhenfei GU, Hongyan WANG, Lingli
 YAO, Zihe CHEN

33: CN 31: 202410955941.4 32: 2024-07-17
**54: WIRE CUTTING DEVICE FOR ELECTRONIC
 CIRCUIT BOARD SOLDERING AND WIRE
 CUTTING METHOD THEREOF**

00: -

The present invention discloses a wire cutting device for electronic circuit board soldering and a wire cutting method thereof, relating to the technical field of circuit board production. The wire cutting device specifically includes a device body and a dust collection structure, where a front side of the device body is provided with an observation window, left and right sides of the device body are provided with electronic circuit board inlet-outlet openings, and a fixed limiting structure, a cutting structure, and a cutter replacement structure are arranged inside an inner cavity of the device body; and the fixed limiting structure includes first hydraulic telescopic rods fixedly connected to the bottom of the inner cavity of the device body, and the top of each first hydraulic telescopic rod is fixedly connected to a pressing plate adapted to an electronic circuit board. According to the wire cutting device for electronic circuit board soldering and the wire cutting method thereof, a distance between a cutter and the electronic circuit board is limited by a positioning plate, such that cutting heights of pins can be kept consistent, and the cutting quality is improved; moreover, in a cutting process, the pins are clamped by a clamping plate, thereby avoiding a pulling phenomenon of the cutter in the cutting process and ensuring the soldering quality of the electronic circuit board.



21: 2025/03670. 22: 2025/04/29. 43: 2025/11/18
 51: A61K; C07K; C12N; A61P
 71: HEFEI TG IMMUNOPHARMA CO., LTD.
 72: CHENG, Ying, CAO, Guoshuai, WU, Yuwei, LI,
 Yangyang
 33: CN 31: 202211327361.8 32: 2022-10-27
**54: ANTI-CD16A ANTIBODY AND APPLICATION
 THEREOF**

00: -

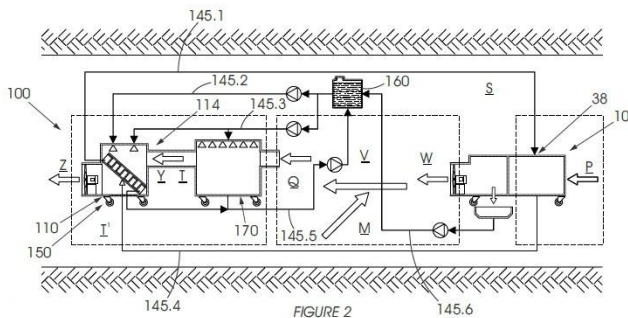
Provided are an anti-CD16A antibody and an application thereof. The antibody comprises heavy chain variable regions CDR1, CDR2, CDR3 sequences as shown in SEQ ID NOs: 1, 2, and 3, or amino acid sequences at least 95% identity to SEQ ID NOs: 1, 2, and 3; and/or light chain variable regions CDR1, CDR2, CDR3 sequences as shown in SEQ ID NOs: 4, 5, and 6, respectively, or amino acid sequences at least 95% identity to SEQ ID NOs: 4, 5, and 6.

21: 2025/03679. 22: 2025/04/29. 43: 2025/11/19
 51: E21F; F24F
 71: M-TECH INDUSTRIAL (PTY) LTD.
 72: VAN ANTWERPEN, Herman, VAN DER WALT,
 Andre, VILJOEN, Dawie
 33: ZA 31: 2024/04004 32: 2024-05-23
**54: UNDERGROUND MOBILE COOLING
 ARRANGEMENT AND METHOD OF USING SAME**

00: -

An underground mobile cooling arrangement and method of use comprising a fluid circuit containing a refrigerant fluid; an evaporator; a heat exchange condenser having an inlet for connecting to a water supply at a maximum temperature t ; a compressor for compressing the refrigerant fluid to increase the temperature to t_1 , wherein $t_1 > t$; a water-to-air heat exchanger, in fluid communication with the

condenser and the air around the water-to-air heat exchanger, and adapted to receive (i) hot water exiting said heat exchange condenser at temperature T1 and (ii) air emanating from the evaporator and surrounding areas at temperature T, wherein $T1 > T$, to cool down the water, by rejecting heat from the hot water to air exiting the underground space and return the cooled water as water supply to said condenser; and an undercarriage for carrying the fluid circuit; evaporator; condenser; compressor; and water-to-air heat exchanger to a location in the underground space.



21: 2025/03680. 22: 2025/04/30. 43: 2025/11/17
51: G06T

71: Hainan Academy of Ocean and Fisheries Sciences

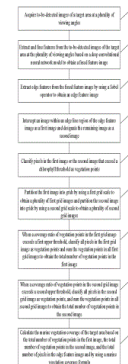
72: WU, Zhongjie, CHEN, Xiaoyin, LIN, Shengkang, LI, Yuanchao, CHEN, Shiquan, CAI, Zefu, WANG, Daoru

54: EDGE DETECTION-BASED MULTI-SCALE GRID DETECTION METHOD FOR MARINE VEGETATION COVERAGE

00: -

Disclosed is an edge detection-based multi-scale grid detection method for marine vegetation coverage. The method includes: extracting and fusing features from to-be-detected images of a target area at a plurality of viewing angles based on a deep convolutional neural network model to obtain a fused feature image; extracting edge features from the fused feature image by using a Sobel operator to obtain an edge feature image; intercepting an image within an edge line region of the edge feature image as a first image, and designating the remaining image as a second image; classifying pixels in the first image or the second image that exceed a chlorophyll threshold as vegetation points; and respectively partitioning the first image and the second image into grids by using different grid

scales, calculating the total number of vegetation points in the first image and the total number of vegetation points in the second image respectively.



21: 2025/03681. 22: 2025/04/30. 43: 2025/11/17
51: G06F

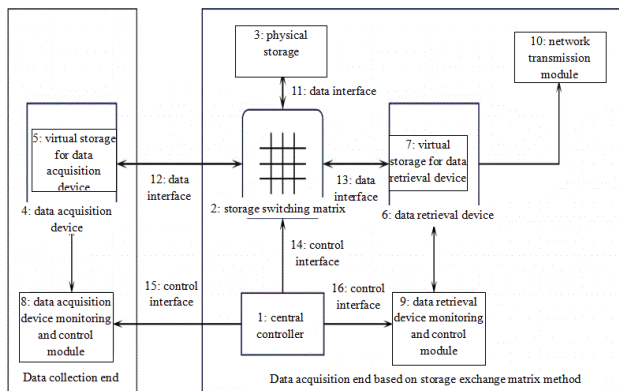
71: Institute of Forest Resource Information Techniques, Chinese Academy of Forestry

72: LIU Xuanxin, YU Xinwen, FAN Dongpu, WANG Baogang, DENG Guang, OUYANG Xuan

54: DATA AUTOMATIC ACQUISITION METHOD AND SYSTEM BASED ON STORAGE SWITCHING MATRIX

00: -

The present invention discloses a data automatic acquisition method and system based on a storage switching matrix, comprising: a central controller, a storage switching matrix, physical storage, a data acquisition device, a data retrieval device, and monitoring and control modules. The central controller coordinates the operation of each module through control interfaces. The storage switching matrix dynamically maps the physical storage as virtual storage for the data acquisition device or the data retrieval device. The data acquisition device collects data and saves it to the virtual storage. Upon completion, the central controller switches the storage switching matrix to allow the data retrieval device to read the data and upload it to a cloud platform, after which the data is deleted to free up space for the next round of collection. The invention requires no modifications to existing devices, offers strong compatibility, and enables real-time or near-real-time automatic data acquisition. It has been successfully applied in practical projects, demonstrating significant practicality and innovation.



21: 2025/03682. 22: 2025/04/30. 43: 2025/11/17
51: D03D

71: Tibet University, Xizang Anido Ecological Technology Co., Ltd.

72: LV, Yong, LV, Xuebin, HE, Xueliang, ZHANG, Hao, LI, Wei, WANG, Haitao

54: MANUFACTURING METHOD OF FLAME-RETARDANT VISCOSE FILAMENT YARN HADA FABRIC

00: -

The present invention belongs to the technical field of flame retardancy of textiles, and particularly relates to a manufacturing method of flame-retardant viscose filament yarn Hada fabric. The present invention includes sizing viscose filament yarn with a size composition, and obtaining sized viscose filament yarn; performing beam-warping on the sized viscose filament yarn as warp yarn, and then weaving the sized viscose filament yarn with the viscose filament yarn as weft yarn to obtain viscose filament yarn Hada fabric; soaking the viscose filament yarn Hada fabric in flame-retardant finishing liquor for flame-retardant finishing to obtain finished fabric; where the flame-retardant finishing liquor includes water-soluble oligomeric chitosan and polyphosphate; and sequentially rolling and drying the finished fabric to obtain the flame-retardant viscose filament yarn Hada fabric.

21: 2025/03683. 22: 2025/04/30. 43: 2025/11/17
51: A61K

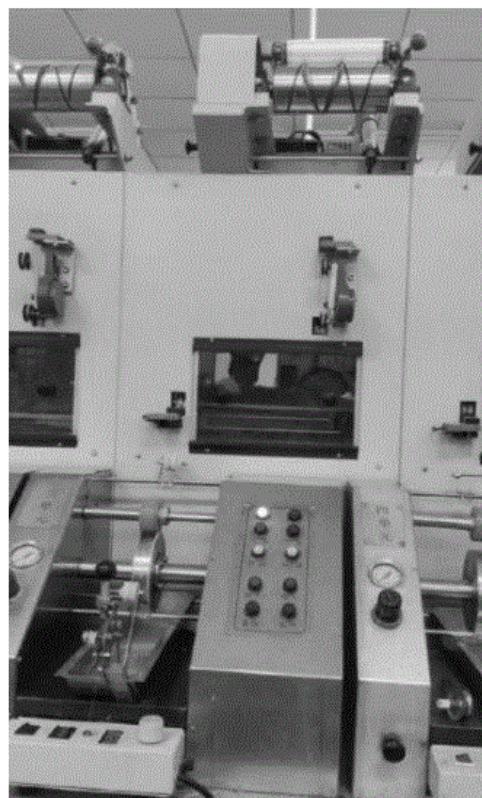
71: Tibet University

72: LI, Wei, WU, Yi, YANG, Chen, ZHANG, Hao, LV, Xuebin, LV, Yong, WANG, Haitao

54: SIZE COMPOSITION AND PREPARATION METHOD THEREFOR, AND SIZING METHOD FOR VISCOSE FILAMENT YARN

00: -

The present invention belongs to the technical field of textiles, and particularly relates to a size composition and a preparation method therefor, and a sizing method for viscose filament yarn. The size composition provided by the present invention includes modified starch, polyvinyl alcohol, a lubricant and water, the lubricant includes castor oil and a water-soluble emulsifier, and a mass ratio of the modified starch to the polyvinyl alcohol is (1-4) : (1-3). The mass percentage content of the lubricant in the size composition is 0.1-0.5 percent, and the solid content of the size composition is 2-3 percent.



21: 2025/03684. 22: 2025/04/30. 43: 2025/11/17
51: C12N

71: Inner Mongolia Minzu Preschool Education College, Inner Mongolia Agricultural University

72: LV, Xiuhua, LI, Zhengnan, SUN, Pingping, ZHANG, Lei, LIU, Shanghua, FU, Chongyi, GUO, Yuchen, WU, Ruochen, ZHANG, Jia, ZHOU, Mo, WANG, Peixian, LIU, Huiya

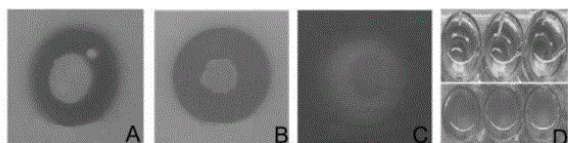
33: CN 31: 202411176508.7 32: 2024-08-26

54: PRIESTIA SP. JP2-14 AND APPLICATION THEREOF

00: -

The present application relates to the technical field of microorganisms, and particularly discloses a strain

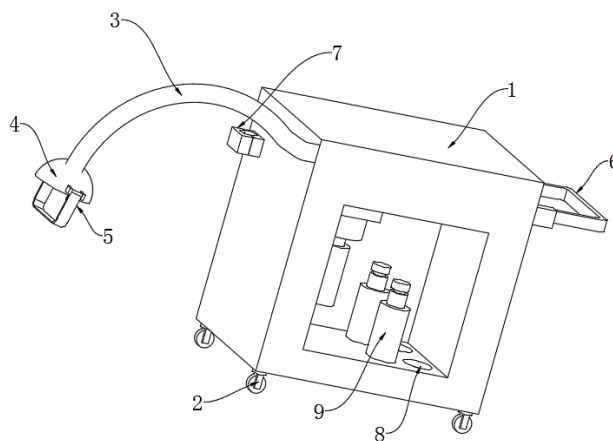
of *Priestia* sp. JP2-14 and the application thereof. The *Priestia* sp. JP2-14 is preserved in the China General Microbiological Culture Collection Center on May 28, 2024, the address is Institute of Microbiology, Chinese Academy of Sciences, No.3, No.1 Yard, Beichen West Road, Chaoyang District, Beijing, the preservation number is CGMCC No. 30803, and the *Priestia* sp. JP2-14 is classified and named as *Priestia* sp. The strain of *Priestia* sp. JP2-14 disclosed by the present application has the capabilities of dissolving phosphorus, fixing nitrogen, complexing iron, producing auxin (IAA) in the capacity of 5.03 mg/L, and effectively promoting growth and improving saline-alkaline tolerance of pepper, is wide in application and has certain application potential.



21: 2025/03685. 22: 2025/04/30. 43: 2025/11/17
51: A61M
71: AFFILIATED HOSPITAL OF HEBEI UNIVERSITY
72: CHEN Lei, SHI Song, LI Qianyu
54: ANESTHESIA INDUCTION INHALATION DEVICE WITH ANTI-LEAKAGE STRUCTURE
00: -

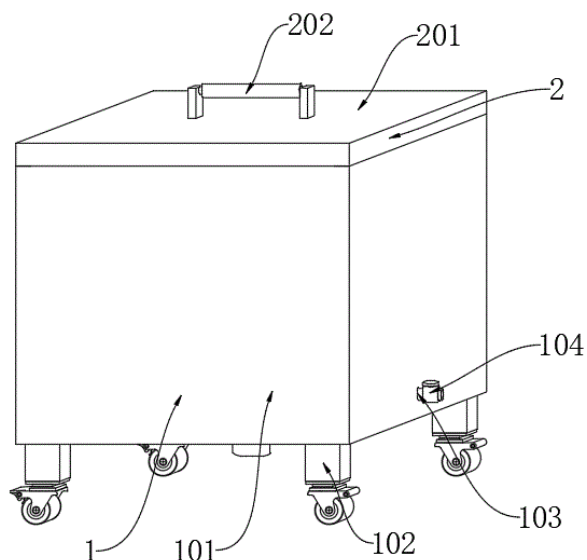
The present invention relates to the field of medical equipment technology and provides an anesthesia induction inhalation device with an anti-leakage structure, comprising a main body, wheels, and one side of the main body is equipped with a connecting tube. The side of the connecting tube away from the main body is equipped with a inhalation mask, and one side of the inhalation mask is equipped with a wearing structure. The present invention provides a wearing structure to install a tension strap on the outer wall of the connecting shaft, and to counteract the abnormal temperature of the hook layer and the loop layer, thereby changing the wearing size of the tension strap. Before placing the inhalation mask in front of the patient and administering anesthesia treatment, the wearing size of the tension strap is adjusted according to the actual size of the patient's head, thereby achieving the purpose of preventing

leakage of anesthesia drugs and being suitable for different patients.



21: 2025/03686. 22: 2025/04/30. 43: 2025/11/17
51: A61L
71: AFFILIATED HOSPITAL OF HEBEI UNIVERSITY
72: GAN Lu, LI Qianyu, CHEN Jing, LI Yongle
54: DISINFECTION TREATMENT DEVICE FOR IMPROVING DISINFECTION EFFECTIVENESS
00: -

The present invention relates to the technical field of disinfection treatment devices, providing a disinfection treatment device for improving disinfection effectiveness, including a disinfection device comprising a cabinet body, fixed casters, a drain pipe, a drain valve, a cleaning frame, and a bellows. The fixed casters are fixed at the corners of the bottom end of the cabinet body. According to the invention, the cleaning structure is arranged, medical instruments and disinfectant are poured into the cleaning frame, and the drive motor is started; the drive motor drives the rotating disk to rotate at the top end of the pressure bearing through the connecting shaft; the rotating disk drives the inclined block to rotate quickly, and the inclined block to drive the walking wheel to bump up and down; and the walking wheel drives the fixed rod to move in the fixed plate, and the fixed rod drives the cleaning frame to bump up and down, so that the disinfectant in the cleaning frame can uniformly clean and disinfect the medical instruments, and the function of the device to improve the disinfection effect is realized, thereby improving the disinfection treatment device when in use.



21: 2025/03687. 22: 2025/04/30. 43: 2025/11/17

51: A61M

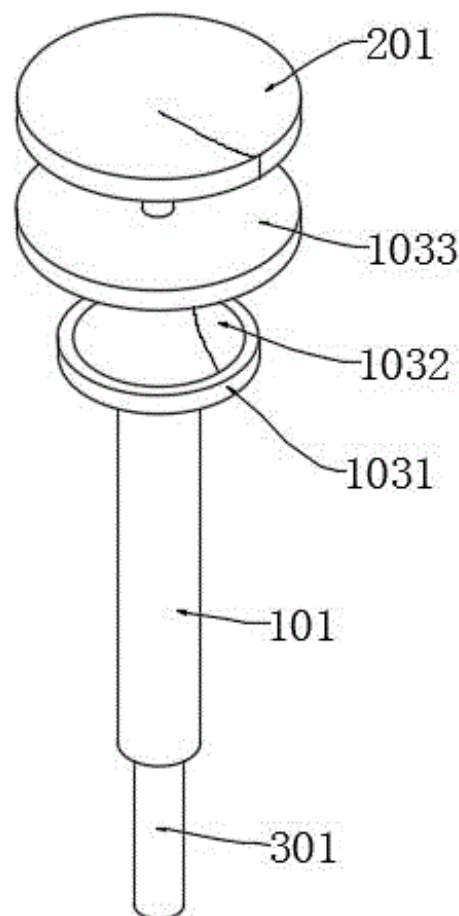
71: AFFILIATED HOSPITAL OF HEBEI UNIVERSITY

72: CHEN Lei, SHI Song, LI Qianyu

54: OPTIMIZED SPECIALIZED ANESTHESIA DEVICE

00: -

The present invention relates to the technical field of medical anesthesia equipment, specifically providing an optimized specialized anesthesia device that includes an outer barrel assembly and a push rod assembly. The push rod assembly is arranged inside the outer barrel assembly, and the bottom end of the push rod assembly is equipped with an injection component. The outer barrel assembly includes a barrel body. The invention features a first sealing ring. When the push rod is pressed, it drives the piston to move the first and second sealing rings downward. During this movement, the first sealing ring, which is in contact with the inner wall of the barrel, is compressed and deforms inward. This deformation increases the pressure between the first sealing ring and the inner wall of the barrel, enhancing the sealing performance during the use of the anesthetic solution. This reduces contact with air, prevents contamination, and ensures the device's sealing functionality, thereby improving the safety of the optimized specialized anesthesia device during use.



21: 2025/03688. 22: 2025/04/30. 43: 2025/11/17

51: G06K

71: China University of Geosciences Beijing

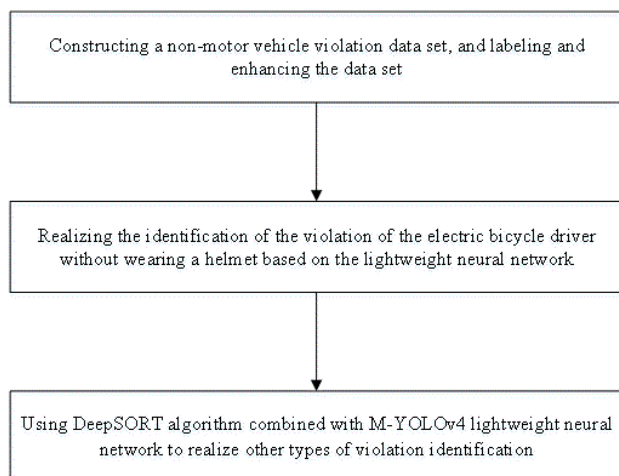
72: Haotian FENG

54: NON-MOTOR VEHICLE VIOLATION MONITORING METHOD AND SYSTEM BASED ON DEEP LEARNING

00: -

The invention discloses a non-motor vehicle violation monitoring method and system based on deep learning, including the following steps: constructing a non-motor vehicle violation data set, and labeling and enhancing the data set; realizing the identification of the violation of the electric bicycle driver without wearing a helmet based on the lightweight neural network, using DeepSORT algorithm combined with M-YOLOv4 lightweight neural network to identify other types of violations. The invention adopts the above-mentioned non-motor vehicle violation monitoring method and system based on deep learning, which reduces the volume and calculation amount of the model,

improves the model reasoning speed, and can better meet the needs of real-time detection, the system can improve the efficiency of the traffic management department to control non-motor vehicles, and save manpower and material resources for the country and society, which has certain practical significance.



21: 2025/03698. 22: 2025/04/30. 43: 2025/11/17
51: A01K

71: Zhangye Xinshanhu Agriculture and Animal Husbandry Development Co., Ltd.

72: Gang WANG, Jianhong SONG, Yuan GOU, Shoufu MA, Jianhong SUN

54: FEEDING DEVICE FOR BEEF CATTLE FARMING

00: -

The present invention relates to the technical field of beef cattle breeding, and discloses a feeding device for beef cattle farming, including a frame, a driving machine, and a control panel. A feeding mechanism is arranged on the frame, and an auxiliary mechanism is arranged on the feeding mechanism. The feeding mechanism includes an active roller, and the active roller is fixedly connected to the output end of the driving machine through a coupling. The side outer wall of the active roller is in contact with a flexible conveyor belt, and the top outer wall of the flexible conveyor belt is provided with a feed trough. The top inner wall of the frame is clamped with a stirring tank, and the bottom outer wall of the stirring tank is fixedly connected with a discharge valve, and the top outer wall of the stirring tank is clamped with a stirring machine cover. In the present invention, by arranging structures such as a flexible conveyor belt and a feed trough, the feed

can be conveniently moved to facilitate cattle foraging, and the residual feed can be conveniently poured out, cleaned and removed, so as to avoid the breeding of bacteria caused by the placement of the feed, which affects the health of the cattle.

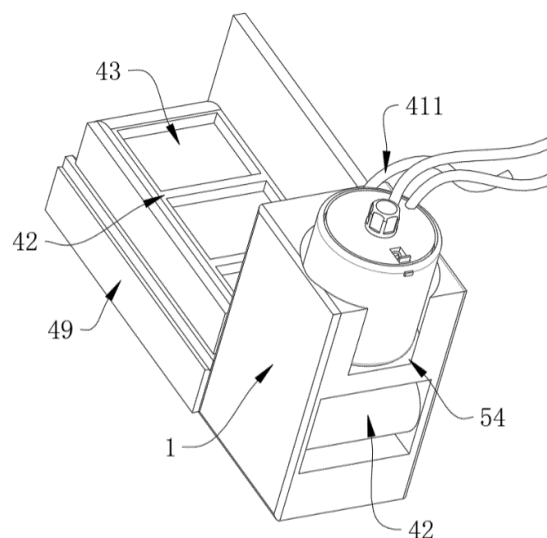


FIG. 1

21: 2025/03700. 22: 2025/04/30. 43: 2025/10/29
51: B65H G07D

71: JAPAN CASH MACHINE CO., LTD.

72: FUJIE, Yoshihisa, TOGANO, Keiichi

33: JP 31: 2022-162203 32: 2022-10-07

54: PAPER SHEET DISCHARGE AND COLLECTION DEVICE AND CIRCULATION-TYPE PAPER SHEET PROCESSING DEVICE

00: -

Provided are a paper sheet discharge and collection device and a circulation-type paper sheet processing device which prevent paper sheets delivered from a circulation unit from causing a collection defect on a withdrawal tray. The present invention comprises: a discharge conveyance path 510 for conveying, to a discharge tray 700, the paper sheets delivered from circulation units 30, 40 with the short sides thereof on a leading end; and a shaping mechanism 550 which shapes the paper sheets so that the short side shape thereof conveyed through the discharge conveyance path is a predetermined shape over the total longitudinal length thereof, and then discharges the paper sheet onto the discharge tray.

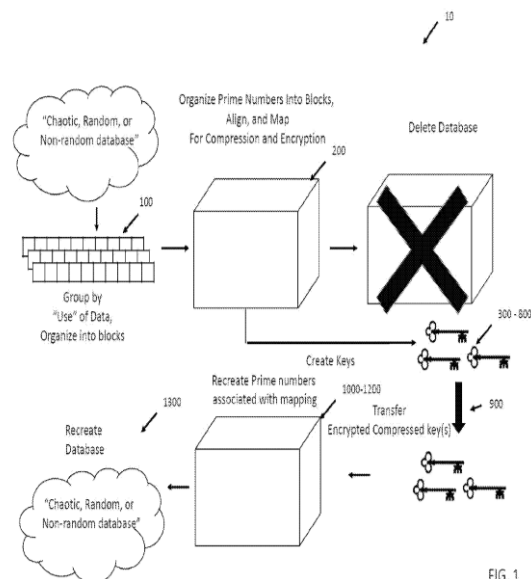
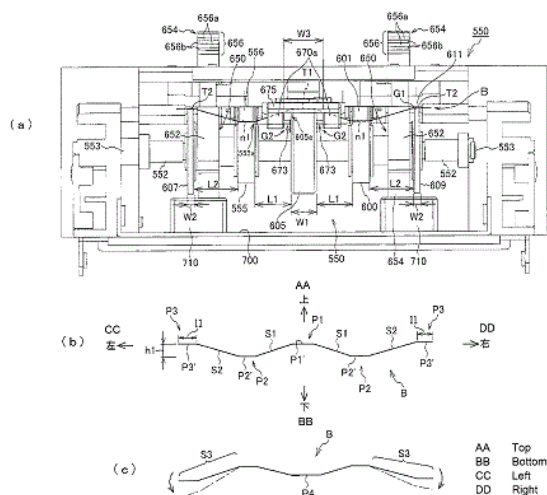


FIG. 1

21: 2025/03707. 22: 2025/04/30. 43: 2025/11/17
 51: G06F; H04L
 71: OUBRE, Derek
 72: OUBRE, Derek
 33: US 31: 17/978,139 32: 2022-10-31
54: METHOD FOR DATA COMPRESSION AND ENCRYPTION

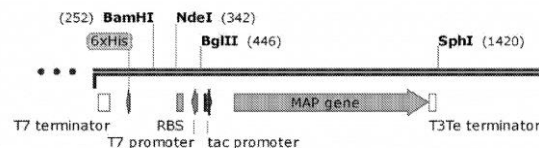
00: -

A method for the simultaneous or contemporaneous generation of at least one encrypted compression key; the deletion of the original database; the transfer of the encrypted compression key; the reversing and decompressing of the encrypted compression key; and the recreation of the original database. The method is usable with any database. Further, the method, includes the generation of at least one encrypted compressed organization key which can be joined with the encrypted compression key to, in essence, add a layer of encryption to compression and a layer of compression to encryption. A double encrypted compressed key may be generated from the use of a trap door or one-way functionality in combination with the compression and encryption portions provided by the encrypted compression key and the encrypted compressed organization key. The encrypted compression key and the double encrypted compressed key include functional parts that accelerate and improve the accuracy of the compression. Moreover, the method is usable with asymmetric or symmetric encryption.

21: 2025/03719. 22: 2025/04/30. 43: 2025/11/17
 51: C12N
 71: Unichem Laboratories Ltd
 72: SATHE, Dhananjay, IYAPPAN, Saravanakumar
 33: IN 31: 20221068864 32: 2022-11-29
54: PROTEINS WITH MINIMAL N-TERMINAL INITIATOR METHIONINE

00: -

The present invention relates to a recombinant plasmid, methods and compositions for the expression of recombinant proteins with minimal N-terminal initiator methionine. The present invention also provides strategies for efficient removal of N-terminal initiator methionine in recombinant proteins expressed at industrial scale and provides method for producing proteins with minimal N-terminal initiator methionine.



21: 2025/03747. 22: 2025/05/02. 43: 2025/12/08
 51: G06Q
 71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
 72: SHINDE, Arya, SAWANT, Ayush, PATIL, Sarthak, KHANDEKAR, Saish, KODMELWAR, Manohar, MIRAJKAR, Riddhi, PATHAK, Kishor, SUKTE, Chudaman

54: A PARENTAL CONTROL SYSTEM FOR CHILD PROTECTION FROM HARMFUL DIGITAL CONTENT AND ENHANCE DIGITAL SAFETY

00: -

The present invention is related to a parental control system for child protection from harmful digital content and enhance digital safety. The parental control system is a user-friendly platform that helps parents manage their children's online activity. It features a pre-sorted list of blocked websites, real-time monitoring, and customizable screen time limits. Parents can set and manage tasks for their children, while the system ensures a safe and secure browsing environment. The system promotes digital safety and provides a balance between online engagement and responsibility.

21: 2025/03748. 22: 2025/05/02. 43: 2025/12/08

51: G06F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

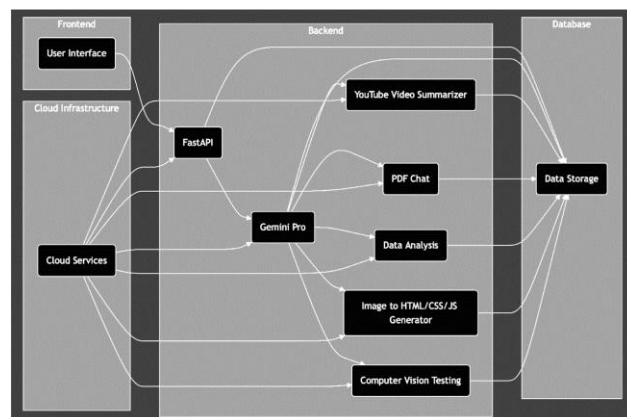
72: KADOO, Parth Sanjay, BAIRAGI, Mayuresh Rajeshkumar, YERKAR, Vaibhav Anil, MAHALLE, Parikshit Narendra, BUCHADE, Amar, INGLE, Yashwant Sudhakar

54: AN INTEGRATED GENERATIVE AI SYSTEM FOR TEXT, VIDEO, DATA, AND COMPUTER VISION SOLUTIONS

00: -

The present invention relates to an integrated generative AI system for text, video, data, and computer vision solutions. Further, our invention is a unified generative AI system, combining various advanced functionalities of AI to enhance interaction amongst users while streamlining workflow across different domains. The tools for integration thus used include summarizing text and video interaction, querying PDFs, data analysis, generating codes from images, as well as virtual try-ons through computer vision. It is developed on a scalable cloud infrastructure, with an asynchronous API architecture, which facilitates the provision of real-time response and adaptive learning capabilities, hence significantly improving efficiency and reducing the operational costs. This newness caters for the growing need for flexible AI solutions, hence positioning our system as a one-stop-shop for education, media, e-commerce, web development,

research, healthcare, and customer support industries.



21: 2025/03749. 22: 2025/05/02. 43: 2025/12/08

51: G06Q

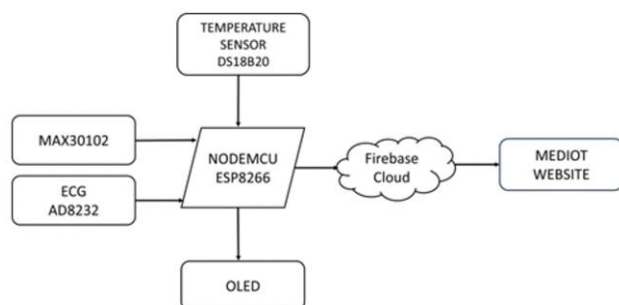
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: GAWANDE, Pravin Ganpatrao, MENDHEKAR, Pranjali, KUMBHAR, Shlok, YALMATE, Ram, KULKARNI, Shailesh Vasudeorao, RAUT, Ketan Janraoji, PATIL, Milind S., AMBHORE, Vishal

54: A SYSTEM FOR WELLNESS MONITORING IN UNDERSERVED COMMUNITIES

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The present invention relates to a system for wellness monitoring in underserved communities. The proposed system delivers comprehensive health monitoring and analysis for underserved communities. By integrating wearable sensors, environmental monitoring, and AI-driven data analytics, the system enables real-time tracking of physical and mental health metrics. The platform also includes telemedicine capabilities, allowing users in low-resource environments to access healthcare providers remotely. The invention is aimed at reducing health disparities, improving health outcomes, and providing early interventions in populations with limited healthcare access.



21: 2025/03750. 22: 2025/05/02. 43: 2025/12/08
51: G06F

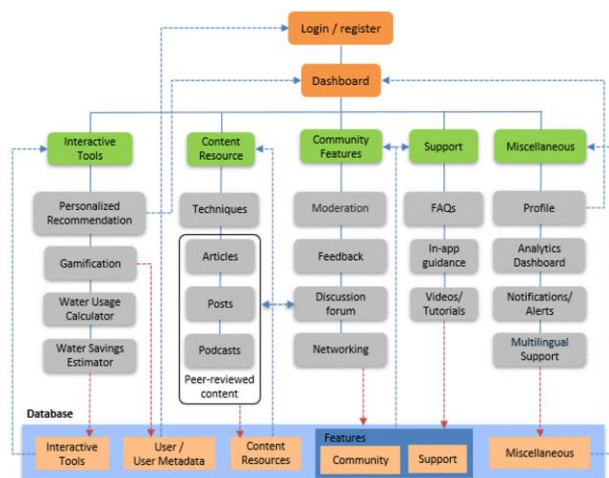
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: RATHI, Snehal Rahul, GHODKE, Rushikesh Nandu, SAKHARE, Sachin, MALI, Manisha Pravin, TIWASKAR, Shweta

54: A DIGITAL KNOWLEDGE SHARING SYSTEM FOR WATER-EFFICIENT TECHNIQUES

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The present invention relates to a digital knowledge sharing system for water-efficient techniques. It incorporates a peer-review system to ensure accurate, reliable content. The platform also features interactive tools for calculating water usage, gamification to engage users, and multilingual support for broader accessibility. The invention addresses the global challenge of water scarcity by providing a centralized repository of water conservation practices, encouraging sustainable water use.



21: 2025/03751. 22: 2025/05/02. 43: 2025/12/08
51: G06Q

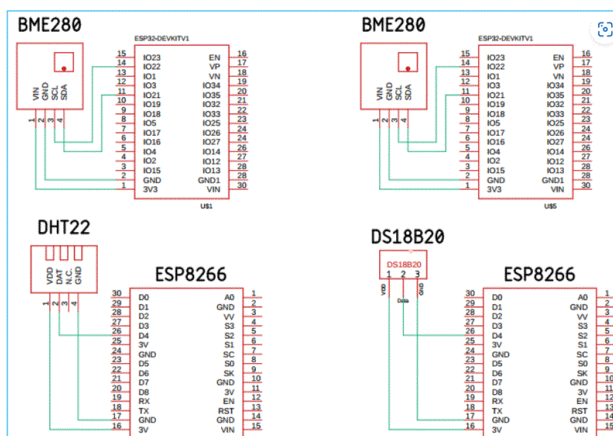
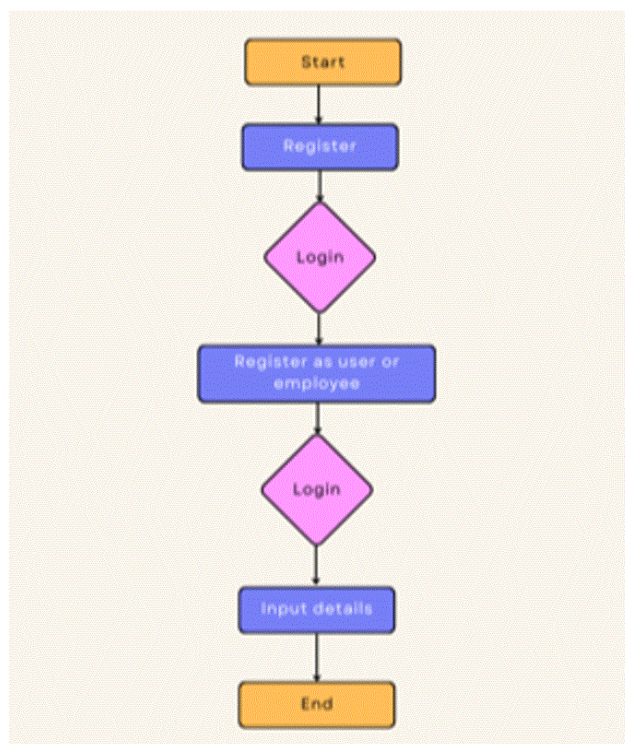
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: MORE, Priyanka, SONAWANE, Achal, DANDAM, Varshini, KHAMKAR, Kiran, SAKHARE, Sachin, CHAVHAN, Pranali, MARAL, Vikas

54: A SECURE HOUSEHOLD SERVICES BOOKING SYSTEM

00: -

The present invention discloses a secure household service booking system integrating real-time tracking and biometric authentication. This mobile-based platform connects users with verified service providers for various home services, including plumbing, carpentry, electrical repairs, and cleaning. The system employs an advanced filtering mechanism that enables users to select professionals based on proximity, pricing, and ratings. Real-time geolocation ensures efficient service matching, while eye-scanning verification authenticates service providers before granting access to user premises. A milestone-based tracking system allows both users and providers to monitor service progress transparently. Additionally, zero-knowledge proof verification ensures user data privacy, preventing unauthorized access to sensitive information. The platform supports secure transactions, multi-platform accessibility, and a two-way rating system to enhance service quality and trust. By integrating AI-driven algorithms and robust security protocols, this system ensures a seamless, safe, and efficient home service experience for users while maintaining high data protection standards.



21: 2025/03753. 22: 2025/05/02. 43: 2025/12/08
51: G06F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: GAIKWAD, Vijay, RAJPUT, Vaishali, MANE, Vijay, DONGRE, Ganesh, SASWADE, Shruti, SATTE, Srushti, SATHE, Kedar, SHENDE, Riddhi
54: AN IOT-BASED WOMEN SAFETY DEVICE
00: -

The present invention relates to an IoT-based women safety device. Further, the proposed device is a compact, portable solution designed to enhance personal security using NodeMCU, GSM, GPS, a buzzer, and an LED light. Upon pressing a panic button, it triggers audible and visual alerts to deter threats while sending real-time location data via SMS to predefined contacts. Powered by a rechargeable battery, the device offers customizable settings and reliable performance, validated through testing. This invention empowers women with immediate emergency response capabilities, fostering safety and autonomy.

21: 2025/03752. 22: 2025/05/02. 43: 2025/12/08
51: H04L

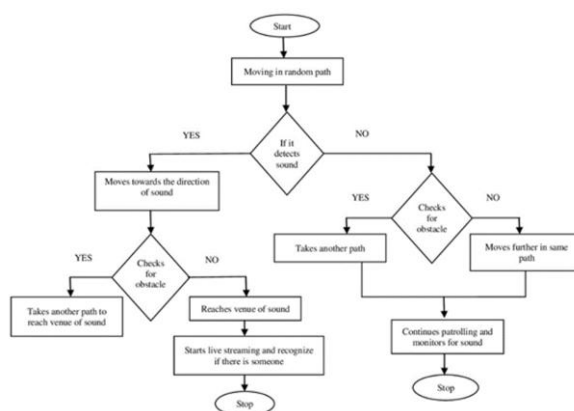
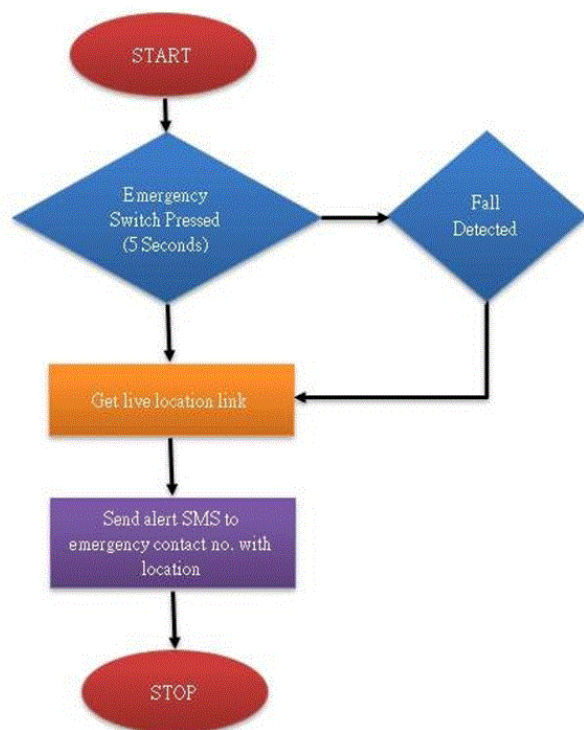
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: GAIKWAD, Vijay, CHOUGULE, Shrey Arjun, SIDDIQUI, Faizan, SINGH, Lakshya, GARGOTE, Soham, TALELE, Ajay, SONAR, Krishna, JALNEKAR, Rajesh

54: AN ESP MESH NETWORK AND WI-FI RANGE EXTENDER USING NODEMCU

00: -

The present invention relates to an ESP Mesh Network and Wi-Fi Range Extender using NodeMCU. Further, the proposed system enhances signal coverage using AI-driven optimization techniques. The device features high-gain antennas, adaptive power control, and interference mitigation to reduce dead zones and improve network stability. Supporting dual-band operation and real-time analysis, the system optimizes signal strength and bandwidth allocation dynamically. A user-friendly interface allows remote configuration and monitoring, making it ideal for residential and commercial use.



21: 2025/03755. 22: 2025/05/02. 43: 2025/12/08
51: A61B

71: VISHWAKARMA INSTITUTE OF
TECHNOLOGY

72: RATHI, Snehal, BOGIRI, Nagaraju, PATIL,
Swati, EKSHINGE, Vaibhav Zunjar, BAGAL, Tanish
Pradip, DAHIWALE, Harshal Manoj

54: AN AI-POWERED MACHINE LEARNING AND MEDICAL IMAGE ANALYSIS SYSTEM FOR ADVANCED OPHTHALMIC DIAGNOSIS AND TREATMENT

00: -

The present invention relates to an AI-powered machine learning and medical image analysis system for advanced ophthalmic diagnosis and treatment. The proposed invention discloses the use of machine learning (ML) strategies for identifying cataracts in ophthalmology. It facilitated automated cataract detection models by applying ML algorithms, including Convolutional Neural Networks (CNNs) and Support Vector Machines (SVMs), to a diverse dataset of eye images. Findings prove that ML approaches are successful in accurately recognizing cataracts across multiple developmental stages. Analyses against traditional techniques indicate that ML algorithms are more accurate and reliable. The proposed invention points out the revolutionary effects of ML in cataract diagnosis, improving patient care and helping to maintain vision.

21: 2025/03756. 22: 2025/05/02. 43: 2025/12/08
51: G06Q

71: VISHWAKARMA INSTITUTE OF
TECHNOLOGY

72: MALI, Aadit Pravin, MALI, Manisha Pravin,
RATHI, Snehal Rahul, MARAL, Vikas Balasaheb,
KOLEKAR, Vikas, SAKHARE, Sachin Rambhau

21: 2025/03754. 22: 2025/05/02. 43: 2025/12/08
51: H04L

71: VISHWAKARMA INSTITUTE OF
TECHNOLOGY

72: RAJVAIDYA, Arya J., PALKAR, Sanket,
GAIKWAD, Vijay, KADU, Anil, RANE, Milind,
DHARASHIVE, Rajnandini N., NIMJE, Rachit D.

54: AN IOT-BASED NIGHT VISION PATROLLING DEVICE FOR ENHANCED SECURITY SURVEILLANCE

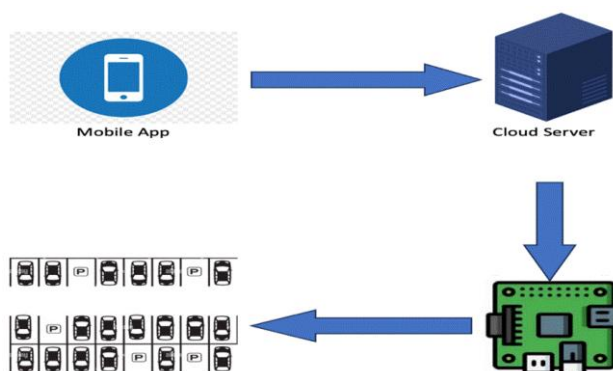
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The present invention relates to an IoT-based night vision patrolling device for enhanced security surveillance. The proposed system enhances nighttime security using an Arduino Uno, NodeMCU ESP8266, and ESP32-CAM for autonomous surveillance. It navigates predefined paths with IR sensors, localizes sounds (e.g., screams) using four sound sensors, avoids obstacles, and streams live video while sending email alerts. Statistical analysis shows 40% improved coverage and 25% higher response efficiency over traditional methods. Powered by a 12V battery, this robust system offers real-time monitoring and adaptability, significantly advancing security in low-light environments.

54: AN ADVANCED AI-DRIVEN CAMPUS PARKING DETECTION, RESERVATION, AND AUTOMATED ACCESS SYSTEM

00: -

The present invention relates to an advanced AI-driven campus parking detection, reservation, and automated access system. The proposed system driven by artificial intelligence that is in-tended to automate and enhance the process of finding, reserving, and overseeing parking spots. It combines cutting-edge technology to offer a smooth, effective, and user-friendly parking experience, including Artificial Intelligence (AI), Automatic Number Plate Recognition (ANPR), and a mobile application. In place of traditional sensors, the system employs AI-powered cameras to instantly identify open parking spots. Convolutional Neural Networks (CNNs), one type of artificial intelligence system, identify parking spots as filled or unoccupied by analysing live video feeds. This data is transmitted instantaneously to a central server, which updates a real-time availability map that users may access via a mobile application. Users may maintain their reservations, look for open parking spots, make reservations, and process payments via the mobile app. In addition, it notifies users when their reservations expire, provides reminders, and confirms bookings. The software ensures a simple and safe transaction procedure by supporting a variety of payment options, such as prepaid accounts and digital wallets. The system uses an ANPR technology, which reads the license plate of the vehicle as it gets closer to the entry barricade, to automate access control. The motorist may access the designated spot after the system successfully recognises the vehicle and automatically opens the barricade. Every parking spot has a speaker system that plays customised messages and offers real-time reservation updates. Real-time parking spot recognition, automatic entrance and departure via ANPR, tailored user inter-face, and smooth connection with a mobile app for booking and payment are some of the invention's standout features. Large settings where efficiency, scalability, and user comfort are crucial, such corporate campuses, public parking lots, and college campuses, are perfect for this system.



21: 2025/03757. 22: 2025/05/02. 43: 2025/12/08

51: G06F

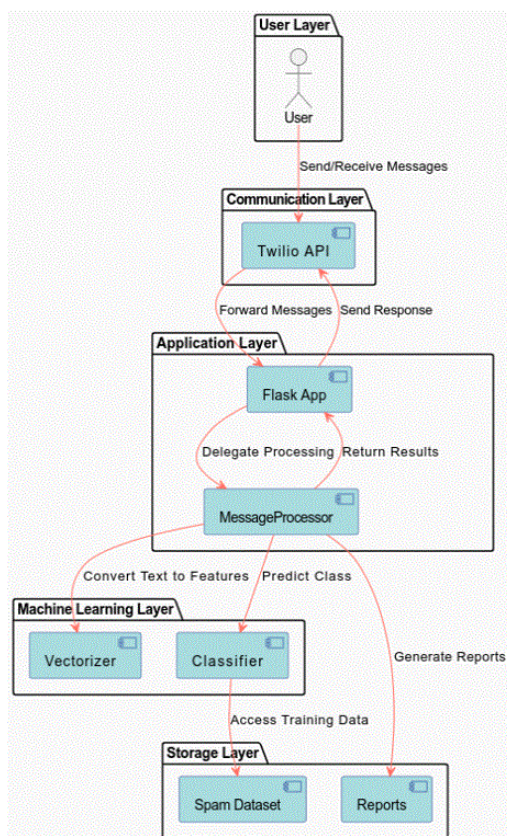
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: PATIL, Swati B., POL, Rahul S., WANKHEDE, Disha S., RATHI, Snehal R., JUNNARKAR, Aparna Atul, CHAVAN, Sahil, CHILE, Shreyash, CHINCHOLKAR, Somesh, GARUD, Parth

54: AN AI-POWERED REAL-TIME WHATSAPP SPAM DETECTION BOT SYSTEM USING MACHINE LEARNING AND AUTOMATED ALERTS

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The present invention relates to an AI-powered real-time WhatsApp spam detection bot system using machine learning and automated alerts. It is a non-intrusive system that detects spam; thus, its effectiveness in preventing users from receiving unwanted and harmful messages. The system scans all incoming messages in real-time continuously, categorizing them as spam or legitimate through its machine learning model. Through the use of deep learning models that are pre-trained, it is possible to analyze the contents of the message for the proper identification of spams. The system immediately informs the user with an attached message to its level of confidence if it determined the message as spam. Using this non-wearable device, the odds of unwanted content decline, and responses happen in the most time-sensitive way possible, which increases general security within messaging applications. It provides more accurate, hands-free methods in the detection of spam and makes for a better experience in communication with safety.



21: 2025/03758. 22: 2025/05/02. 43: 2025/12/08
51: A43D

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

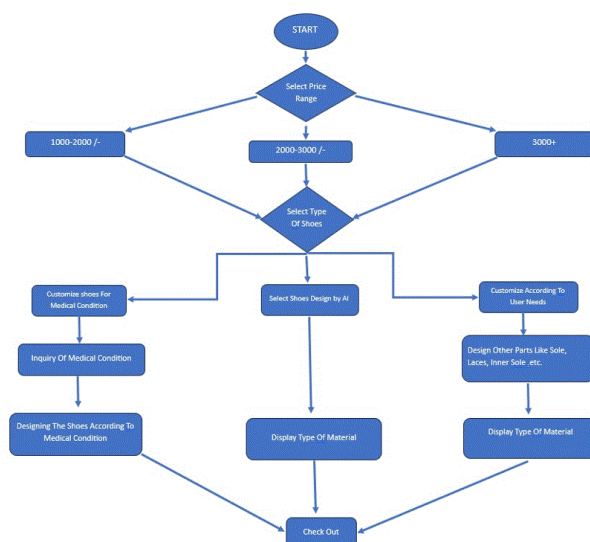
72: KULKARNI, Ratnanabh, DAHAKE, Sujal, TRIGUNE, Himanshu, ARGAD, Sanmay, PANDIT, Dipti, TAMKHADE, Jayashree

54: A CUSTOMIZABLE SNEAKER SYSTEM

00: -

The present invention relates to a customizable sneaker system that empowers users to personalize their footwear according to individual preferences, budget constraints, and functional requirements, including specific medical needs. Utilizing advanced technologies such as AI-driven design tools and augmented reality (AR), the system enhances the customization experience by allowing users to select materials, colors, and design features for various types of sneakers, with special considerations for health-related features such as arch support, cushioning, and compatibility with orthotic devices. The process begins with price-based material selection, enabling users to make informed choices within their financial expectations while also considering suitable materials that address their

medical requirements. Additionally, the invention emphasizes sustainability by incorporating eco-friendly materials, reducing waste through on-demand production. The system's integration of an AI-powered assistant and AR visualization tools simplifies the customization process, providing tailored recommendations based on user inputs, including medical conditions, foot measurements, and style preferences. The AR feature allows users to visualize their custom sneaker designs in real-time, enhancing their confidence in the final product. This innovative approach not only elevates user satisfaction but also addresses the growing demand for personalized, functional, and sustainable products in the footwear industry. Furthermore, the customizable sneaker system has significant potential applications in healthcare, allowing for shoes specifically tailored to enhance comfort and health outcomes for individuals with various medical conditions.



21: 2025/03776. 22: 2025/05/05. 43: 2025/12/08
51: H01H

71: SHANDONG POLYTECHNIC

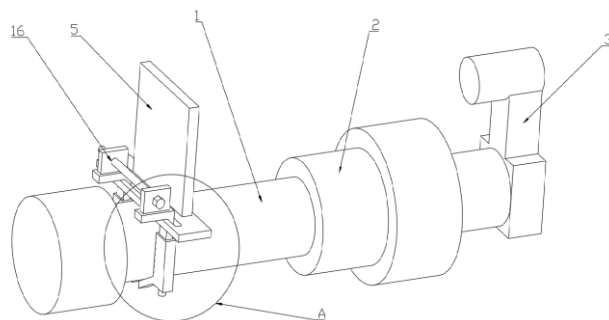
72: CUI, Jing-ping, KUANG, Wei, GENG, Kai

54: HIGH-VOLTAGE SWITCHGEAR MOVING AND STATIONARY CONTACTS ENGAGEMENT DEPTH DETECTION DEVICE

00: -

The invention relates to high-voltage switchgear moving and stationary contacts engagement depth detection device in mechanical and equipment

technical field. It comprises a moving contact and a stationary contact; the stationary contact is provided with a laser distance measurement sensor; the moving contact is connected to a mounting plate; the mounting plate is equipped with a reflector plate, wherein the reflector plate and the laser distance measurement sensor cooperate to measure the engagement depth; the mounting plate further includes an adjustable clamping mechanism coupled to the moving contact. The moving contact and stationary contact are optically measured via coordinated operation between the laser distance measurement sensor and reflector plate. During measurement, while maintaining the laser distance measuring sensor stationary, the circuit is instantaneously closed when the moving contact and stationary contact make contact. The displacement variation during the engagement process of the moving contact and stationary contact is converted into displacement variation between the laser distance measuring sensor and baffle, which can detect engagement depth.



21: 2025/03778. 22: 2025/05/05. 43: 2025/12/08
51: A63B

71: LIYANG PEOPLE'S HOSPITAL

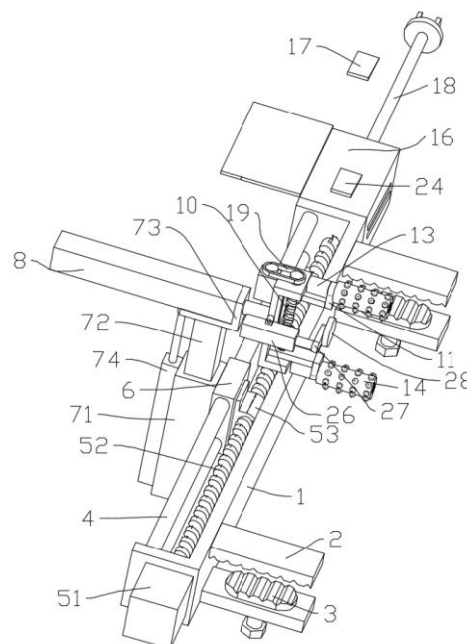
72: CHEN, Bo, ZHENG, Danping, CHEN, Zhaohua

54: UPPER LIMB JOINT EXERCISING DEVICE FOR BEDRIDDEN PATIENT

00: -

The present invention discloses an upper limb joint exercising device for a bedridden patient, and belongs to the technical field of rehabilitation nursing equipment. Two symmetrical sliding rods and one screw assembly are fixedly mounted on a fixed frame of the exercise device, a plurality of symmetrical clamping plates are welded on a back, the two clamping plates are in threaded connection with clamping assemblies, a sliding block is slidably mounted on the sliding rod, the sliding block is

connected to one side of the screw assembly, a lifting frame is welded on a surface, and a first servo electric cylinder is mounted on the lifting frame. The device of the present invention is conveniently clamped on the side of the bed by the clamping plates mounted on the fixed frame, and is fixed by the clamping assemblies, which improves the convenience of mounting. The two rubber massage rods massage two sides of the upper limbs and the shoulder joints, elbow joints and wrist joints of the bedridden patient, which can stimulate the muscles, joint nerves and blood vessels of the patient, promote blood circulation and metabolism, relieve stiffness of the upper limb joints and muscle atrophy, and improve the exercise effect.



21: 2025/03779. 22: 2025/05/05. 43: 2025/12/08
51: G05B

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: SABLE, Sunil, CHAUDHARI, Mayur, IKAR, Mitesh

54: AN AUTOMATED ANOMALY DETECTION AND ADAPTIVE PID CONTROL SYSTEM FOR TEMPERATURE REGULATION IN CHEMICAL REACTOR

00: -

The present invention is related to an automated anomaly detection and adaptive PID control system for temperature regulation in chemical reactor. Chemical reactors are critical components in various

industrial processes, and maintaining their optimal operation is essential for ensuring safety, efficiency, and product quality. One of the key parameters that need to be monitored closely in chemical reactors is temperature, as deviations from the expected temperature range can indicate potential issues or faults in the system. Anomaly detection is the process of identifying patterns or data points that deviate significantly from the expected behaviour or normal operating conditions. In the context of chemical reactors, anomaly detection in temperature data can help identify potential problems before they escalate, enabling timely corrective actions and preventing costly downtime or accidents. This invention presents a MATLAB-based solution for automated anomaly detection in temperature data from chemical reactors. The approach generates synthetic temperature data, introduces anomalies, and employs a simple thresholding method for anomaly detection. Additionally, it provides visualizations to aid in understanding the temperature data, detected anomalies, and their distributions.

21: 2025/03780. 22: 2025/05/05. 43: 2025/12/08
51: H04L

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: CHAUDHARI, Archana, BANDGAR, Sakshi, CHOUDHARI, Vedant

54: AN IOT ENABLED TWO-FACTOR AUTHENTICATION (2FA) SYSTEM FOR ENHANCED WEBSITE SECURITY FROM CYBER THREATS

00: -

The present invention is related to an IoT enabled two-factor authentication (2FA) system for enhanced website security from cyber threats. To bolster institutional activities, leveraging information systems is crucial. However, traditional authentication methods like username and password entry pose significant security risks, vulnerable to password sniffing or tapping attacks. This flaw can lead to unauthorized access and abuse of personal identification accounts. To address these vulnerabilities, this system provides an innovative Secure Token Two-Factor Authentication (2FA) system for website security. Utilizing a NodeMCU ESP8266 board as an IOT device OLED display,

pushbutton, breadboard, jumper wires, and a random number generator, the system enhances security while ensuring computational efficiency. Integration of CSS and HTML provides a user-friendly website interface, facilitating seamless authentication. Serial communication between the NodeMCU and website ensures secure data transfer, mitigating the risk of interception. A time-sensitive cryptographic token, generated using the random number procedure, is displayed on the OLED for user verification. Access to the token is restricted to the requesting user, preventing unauthorized reuse. This real-time synchronization thwarts unwanted access attempts, enhancing security without compromising user experience. By incorporating hardware components, the system adds an extra layer of defense against evolving cyber threats, making it a robust solution for website protection.

21: 2025/03781. 22: 2025/05/05. 43: 2025/12/08
51: G06F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: MUNDADA, Kapil, BHADANE, Om, GAVATE, Aditya, AWARI, Janhavi

54: AN IOT AND IMAGE PROCESSING BASED REAL-TIME POTHOLE DETECTION AND ALERTS SYSTEM FOR ROAD SAFETY

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The present invention is related to an IoT and image processing based real-time pothole detection and alerts system for road safety. An inventive concept called Road Sense seeks to improve road safety by identifying potholes and alerting authorities. The technology detects potholes in real-time while the vehicle moves, thanks to a camera module that has been trained using a dataset of pothole photographs. Using GPS, it locates each pothole and transmits the data to the appropriate authorities. By enabling quick repairs, this real-time notice enhances both vehicle safety and road conditions. Road Sense makes use of IoT and sophisticated image processing to build safer, more intelligent roadways.

21: 2025/03782. 22: 2025/05/05. 43: 2025/12/08
51: H01M

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: MADAKE, Jyoti, SINGAR, Sai, BHATLAWANDE, Shripad, SHILASKAR, Swati, SONAWANE, Abhijit, SHINDE, Shobit

54: A PELTIER TECHNOLOGY BASED BATTERY COOLING AND HEATING SYSTEM FOR ELECTRIC VEHICLES

00: -

The present invention is related to a peltier technology based battery cooling and heating system for electric vehicles. Effective battery temperature management is essential to guarantee electric vehicles (EVs) security and efficiency. This is where the battery temperature management system (BTMS) comes into the picture. The system is equipped with a Peltier module for thermoelectric cooling and a thermocouple with a power amplifier (HW550 module) for real-time temperature monitoring of batteries in EVs respectively. The Evaluation of the embedded unit considers all complex thermal dynamics including the surface temperature of the battery and the environment temperature of the EV. The Peltier module's dynamic cooling or heating keeps the battery temperature within permitted operating limits, and it is carefully tested on EVs over a 30-day trial. It is vital to provide accurate information on the thermal state of the battery pack, which is done by employing a 32-bit RP2040 ARM Cortex Raspberry Pi Pico module for data acquisition.

21: 2025/03783. 22: 2025/05/05. 43: 2025/12/08
51: G06N

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: DONGRE, Shital, SADAVARTE, Koushal, KULKARNI, Neel, LAGDIVE, Shivam, MEHENDALE, Eshan, NIMGAONKAR, Saloni

54: A DEEP LEARNING BASED COMPREHENSIVE ROAD QUALITY ASSESSMENT SYSTEM FOR ENSURING ROAD SAFETY

00: -

The present invention is related to a deep learning based comprehensive road quality assessment system for ensuring road safety. Maintaining high-quality road infrastructure is crucial for ensuring safety, efficiency, and economic vitality. Traditional methods for assessing road quality often involve manual inspections, which can be time-consuming, subjective, and inconsistent. In response, this

invention presents a novel comprehensive methodology for automated road quality assessment, leveraging the power of deep learning and expert system integration. It introduces a custom-developed model based on the YOLO-V8 (You Only Look Once, Version 8) architecture, renowned for its real-time object detection capabilities, which is adapted for the specific task of identifying and classifying various road defects such as potholes, cracks, and surface wear. To enhance the accuracy and applicability of the deep learning model, it is integrated with an expert system that utilizes a curated set of heuristics derived from domain expertise in civil engineering. This hybrid approach enables the system to not only detect road defects but also assess their severity and suggest necessary maintenance actions based on predefined rules and historical data.

21: 2025/03784. 22: 2025/05/05. 43: 2025/12/08
51: G06Q

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: SONDKAR, Shilpa, MADNURKAR, Parth, KSHIRSAGAR, Urvi, KAD, Sarish, KAPRE, Ved

54: A SMART AND SECURE RETAIL SHOPPING AUTOMATION SYSTEM FOR THEFT PREVENTION AND INVENTORY MANAGEMENT

00: -

The present invention is related to a smart and secure retail shopping automation system for theft prevention and inventory management. The evolution of retail technology aims to enhance customer experience while addressing prevalent issues such as theft and inefficiencies in the shopping process. This invention presents a novel smart and secure shopping system integrating intelligent shopping carts and sensor-embedded shelves to revolutionize the retail environment. The system employs advanced weight sensors and NFC tags within shelves and carts to continuously monitor product movements, instantly detecting potential theft or misplacement of items. When an item is picked from a shelf but not placed in a cart, the system triggers an alarm and notifies the store manager. Concurrently, smart carts equipped with Human-Machine Interface (HMI) panels provide real-time pricing, product information, and shopping guidance. This dual-faceted approach not only

fortifies security by reducing shrinkage but also elevates the convenience and satisfaction of the shopping experience. It explores the design, implementation, and efficacy of this integrated system, including a detailed analysis of sensor accuracy, system scalability, and user feedback from pilot tests. The findings indicate significant improvements in inventory management, reduction in theft incidents, and positive reception from users, suggesting that such smart systems can profoundly impact the future of retail.

21: 2025/03785. 22: 2025/05/05. 43: 2025/12/08
51: G06F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: DONGRE, Shital, DHABE, Priyadarshan, AGARWAL, Priyasha, AGRAWAL, Nupur, ADAK, Shantanu, MATTOO, Aaryan, UPADHYE, Gopal

54: A CLASSIFICATION SYSTEM WITH TRIANGULAR PATTERN RECOGNITION

00: -

The present invention is related to a classification system with triangular pattern recognition. Pattern Recognition corresponds to the field of Artificial Intelligence that deals with automated recognition of patterns. It aims at deciding the set of features that uniquely identify a given pattern and classify them into a specific class or category. There exist many algorithms and classifiers such as SVM, KNN, and Decision-Trees that facilitate pattern recognition and classification. Most of these algorithms have been tried and tested on various datasets and their efficiency and accuracy have been mapped. This invention provides a new outlook to pattern classification by using the concept of Dhabe's triangles, which focuses on the use of triangles and their properties to identify and classify patterns along with providing a comparative study of how this algorithm proves to be efficient. Along with describing the approach in detail, a comparative analysis of the algorithms on various standardized datasets has been given. The results provide a strong case for advocating the use of triangles and their properties in the field of pattern classification.

21: 2025/03786. 22: 2025/05/05. 43: 2025/12/08
51: A47G

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: SULTANPURE, Kavita A., WASEKAR, Tejas R., TAMBE, Shubham R., POWAR, Payal, SIDANALE, Rijul, SOOD, Shruti

54: AN IOT BASED SMART COASTER SYSTEM WITH INTELLIGENT TEMPERATURE CONTROL FOR ENHANCING BEVERAGE EXPERIENCE

00: -

The present invention is related to an IoT based smart coaster system with intelligent temperature control for enhancing beverage experience. The Smart Coaster represents a fusion of cutting-edge technology, combining the versatility of Arduino with the connectivity of the Internet of Things (IoT). In an era where smart devices are revolutionizing everyday experiences, this project introduces an intelligent solution for enhancing the enjoyment of a common ritual – sipping a hot or cold beverage. The coaster is equipped with sensors that monitor beverage temperature, ensuring optimal conditions for the user's preference. This real-time data is not only processed locally but also transmitted to IoT platforms, enabling users to remotely monitor and regulate their beverage temperatures with ease. The integration of hardware and connectivity transforms the traditional coaster into a dynamic, user-centric device.

21: 2025/03788. 22: 2025/05/05. 43: 2025/12/08
51: G06F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: CHAUDHARI, Archana, SHELKE, Pranav, THOMBARE, Pratamesh, SANDBHOR, Saurabh

54: AN INTEGRATED AI SYSTEM FOR MEDICAL REPORT ANALYSIS AND MULTILINGUAL DOCUMENTATION

00: -

The present invention is related to an integrated AI system for medical report analysis and multilingual documentation. In the evolving landscape of healthcare technology, comprehending medical reports remains a formidable challenge, particularly for the elderly and non-native language speakers. This invention introduces an advanced, AI-driven platform designed to transform medical report analysis through the integration of Generative AI and Natural Language Processing (NLP). This solution, leveraging state-of-the-art models and APIs, offers a

multifaceted approach by providing accurate summaries, facilitating language translation, and enhancing auditory accessibility. The core of the system lies in its ability to interpret complex medical terminology and deliver insights in multiple formats, including regional languages and loud speech output, thus catering to diverse user needs. Additionally, the system supports natural remedy suggestions, further aiding in holistic patient care. Preliminary evaluations demonstrate the system's efficacy in improving report accessibility, understanding, and user interaction, making it a valuable tool in the digital healthcare arena. The integration of these technologies not only enhances the comprehension of medical documentation but also democratizes healthcare information, ensuring all patients can make informed decisions about their health.

21: 2025/03789. 22: 2025/05/05. 43: 2025/12/08
51: G06N

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: MAHADIK, Kalpesh Dinesh, AHIRE, Utkarsha Ulhas, JADHAV, Atharv, RANE, Aditya, DESHMUKH, Om Rajendra, YELE, Dishant, SHEWALE, Chaitali, KODMELWAR, Manohar

54: AN IMAGING AND MACHINE LEARNING BASED SYSTEM FOR ADVANCED CROP DISEASE DETECTION

00: -

The present invention is related to an imaging and machine learning based system for advanced crop disease detection. Agricultural technology presents innovative ways to enhance crop health monitoring and disease detection. This invention introduces an AI-driven crop detection model that uses machine learning to identify plant diseases from images. By analyzing crop photos, the model provides real-time diagnostics, enabling farmers to take prompt action to protect their crops. The system leverages drone technology to facilitate crop monitoring, offering large-scale analysis of fields and early detection of issues such as nutrient deficiencies, pest infestations, and diseases. This solution minimizes the need for manual inspection, empowering farmers with a user-friendly tool, regardless of their agricultural expertise. Designed to be cost-effective and scalable, the model can benefit farmers across various regions. Future development will focus on

collaborating with governments and agronomists to expand the technology's reach and ensure its accuracy and practicality for sustainable farming.

21: 2025/03790. 22: 2025/05/05. 43: 2025/12/08
51: G06Q

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: DOME, Anisha Santosh, PATIL, Suman Rajaram, BODKE, Rutuja Dinkar, PATIL, Shrutika Sampatrao, KODMELWAR, Manohar, FUTANE, Pravin, WANKHADE, Shalini, PATHAK, Kishor

54: AN AI-DRIVEN ANALYTICS BASED EXPENSE TRACKER SYSTEM FOR STREAMLINING FINANCIAL MANAGEMENT

00: -

The present invention is related to an AI-driven analytics based expense tracker system for streamlining financial management. The expense tracker system for middle class families is a web-based financial management tool that utilizes machine learning and set-theory-based financial models to deliver personalized financial advice. By analyzing individual income and expense patterns, the platform helps users optimize budgeting, enhance savings, and develop effective debt repayment strategies tailored to their financial needs. Specifically designed for middle income families, this system simplifies daily financial management and provides predictive insights to support smarter long-term financial planning and stability.

21: 2025/03791. 22: 2025/05/05. 43: 2025/12/08
51: G09B

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: HONMANE, Suraj Sandip, BAGAD, Sudhir Gajanan, BAGUL, Pratik Dilip, SINGH, Chirag, KODMELWAR, Manohar, FUTANE, Pravin, DEDGAOKAR, Suruchi, WANJALE, Kirti

54: AN AI BASED FINANCIAL EDUCATION AND MANAGEMENT SYSTEM FOR STUDENTS

00: -

The present invention is related to an AI based financial education and management system for students. The proper management of finances during the studentship can ensure long-term financial stability for the students. This AI-driven teaching platform for students that teaches them to

manage finances, which can be taught through adaptive quizzes and different modules, uses machine learning to analyze answers from the users and ask adaptable questions based on that, through which it helps them learn budgeting, saving, and investing. The interaction would come alive through gamification and feedback in real time, thus fostering strong and effective learning in the minds of students toward financial independence. It also provides analytical means to view spending habits and create an informed choice for them in managing their finances.

21: 2025/03792. 22: 2025/05/05. 43: 2025/12/08
51: G06F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: GADO, Mithilesh Manoj, MAHAJAN, Mithilesh Jitendra, BHAT, Saanvi, SAWANT, Aarya Dattatraya, SHINDE, Gitanjali Rahul, PATIL, Rutuja Rajendra, KULKARNI, Omkaresh Sakharam, BOBHATE, Grishma Yadav, SABLE, Nilesh P., WASATKAR, Namrata Nishant

54: AN AI DRIVEN MOOD BASED MEAL RECOMMENDATION SYSTEM FOR CAFETERIAS AND RESTAURANTS

00: -

The present invention is related to an AI driven mood based meal recommendation system for cafeterias and restaurants. This invention provides an AI-based mood-sensitive meal recommendation system that incorporates facial recognition, a voice-based questionnaire, and machine learning to suggest personalized meals. It evaluates the mood of a user using facial recognition algorithm, captures additional input through voice interactions, and accordingly suggests meals based on past dietary history as well as available menu options.

21: 2025/03793. 22: 2025/05/05. 43: 2025/12/08
51: G06N

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: WANKHADE, Renuka Sunil, MOTA, Riya Bipin, THAKRE, Mangesh Vishwas, MARATHE, Mahesh Dhanraj, PATIL, Rutuja Rajendra, SHINDE, Gitanjali Rahul, BOBHATE, Grishma Yadav, KULKARNI, Omkaresh Sakharam, MEHTA, Pradnya Samit, CHAVHAN, Pranali Gajanan

54: A MACHINE LEARNING AND SENSORS BASED SMART REFEREEING AND REAL-TIME

STRATEGY ASSISTANCE SYSTEM FOR UNDERWATER HOCKEY

00: -

The present invention is related to a machine learning and sensors based smart refereeing and real-time strategy assistance system for underwater hockey. This invention introduces an intelligent system that imposes real-time rules and strategy assistance for underwater hockey by its application of wearable sensors in combination with the machine learning. Factors used include inertial measurement units, acoustic beacons, and pressure sensors and are fused with players' gear to trace movement, positioning, and depth. Video feeds of underwater cameras are processed by an object-detection model based on YOLO. 3D Convolutional Neural Networks with motion analysis are then used for real-time monitoring of interactions among the players and the puck. Sensor and video data fed into a Temporal Convolutional Network for identification of fouls, rule violations, and tactical game situations. Specifically, real-time updating for the position and strategies of players underlies the Q-learning reinforcement learning. Rule infractions are reported directly to referees and through HUD or tablets, strategic changes for coaches would be suggested, hence enhancing monitoring of games as well as performance. Accuracy, fairness, and better strategic decision-making is, therefore guaranteed in underwater sports.

21: 2025/03794. 22: 2025/05/05. 43: 2025/12/08
51: B07C

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: PINGALE, Abhishek Vijay, SAROLKAR, Yash Shailesh, KULKARNI, Prerna Ashok, SARWE, Nidhi Krushnakumar, PATIL, Rutuja Rajendra, SHINDE, Gitanjali Rahul, KULKARNI, Omkaresh Sakharam, BOBHATE, Grishma Yadav, MAHALLE, Parikshit Narendra

54: AN IMAGE RECOGNITION AND GAS DETECTION SENSOR BASED SMART TOMATO SORTING SYSTEM

00: -

The present invention is related to an image recognition and gas detection sensor based smart tomato sorting system. This invention applies a combination of sensor-based image recognition, gas detection, and the architecture of Convolutional

Neural Network to automate the classification and sorting of tomatoes. The system integrates a number of sensors such as RGB cameras, proximity sensors, infrared sensors, and ethylene, ammonia, and sulfur compounds gas detectors for analyzing a great many parameters such as size, ripeness, pest infection, and spoilage. The RGB camera captures high-resolution images, the proximity sensor makes measurements of diameter and length, infrared sensors detect trends of fluctuations in flux rates, which indicate infections due to pests, whereas gas sensors of ethylene, ammonia, and sulfur compounds detecting decomposition and rot are sensed. Then, using the gathered data, a CNN model is employed in order to classify them into one category out of the following: small, medium, large, unripe, ripe, overripe, infected by pests, and healthy. Multi-level validation ensures that fruits undergo proper sorting thus improving quality control directly. It increases efficiency and minimizes post-harvest losses of food processing, packing, and distribution enterprise. This system provides real-time monitoring while delivering actionable data for the usage of tomato processing plants, supply chains, and fresh produce retailers.

21: 2025/03795. 22: 2025/05/05. 43: 2025/12/08
51: G06N

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: JADHAV, Yuvraj Ravishankar, GHORPADE, Shravani, DARAK, Aditya, SHAHANE, Tanay, PATIL, Rutuja Rajendra, SHINDE, Gitanjali Rahul, KULKARNI, Omkaresh Sakham, BOBHATE, Grishma Yadav, DESHPANDE, Yogesh Dattatray, MAHAJAN, Rupali Atul

54: A WEARABLE SAFETY SYSTEM WITH MACHINE LEARNING (ML) INTEGRATION FOR REAL TIME THREAT DETECTION AND ALERT SYSTEM

00: -

The present invention is related to a wearable safety system with machine learning (ML) integration for real time threat detection and alert system. The invention is based on a wearable safety system which comprises various sensors, a microcontroller with Edge Computing features and wireless communication modules. Based on the accelerometers, gyroscopes, GPS, and microphones, the system runs machine learning

models for real time threat detection and anomaly recognition. Additional data analysis and storage are provided via a cloud based infrastructure, and user interface and control are offered via a mobile application. The system is adaptive learning in order to personalize threat detection, multi-modal sensor fusion for higher accuracy, and intelligent power management for maximum extension in battery life. It also contains security architecture that will secure data handling. This invention provides methods for geo-fencing, emergency services integration and third party system compatibility. The applications from this comprehensive personal safety approach are multiple and its use cases range from personal security, healthcare, law enforcement to smart city initiatives. In this way, the system represents a major leap in wearable safety technology and addresses erroneous demarking, battery life, and user privacy, with real time demarking and response to a threat.

21: 2025/03796. 22: 2025/05/05. 43: 2025/12/08
51: G06F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: PAWAR, Aditya Umesh, NETKE, Digvijay Sandipan, KUNJIR, Yash Ravindra, PHAD, Bhagyashri Govind, KODMELWAR, Manohar, FUTANE, Pravin, DEDGAONKAR, Suruchi, PATHAK, Kishor

54: AN AI BASED PERSONALIZED DIET AND WORKOUT MANAGEMENT SYSTEM WITH INTEGRATED CHATBOT

00: -

The present invention is related to an AI based personalized diet and workout management system with integrated chatbot. The invention is an AI based personalized diet and workout recommendation system that collects user health data and uses machine learning models to generate tailored health plans. It integrates a chatbot for real-time user interaction and offers professional consultations with trainers and dietitians. The system also features an e-commerce component to facilitate the purchase of related fitness and diet products, making it a comprehensive tool for health management.

21: 2025/03797. 22: 2025/05/05. 43: 2025/12/08
51: G06F

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: HAGE, Kunal, DEOGADE, Aman, DESHMUKH, Arpit, JADIYE, Om, NAIK, Pratik, KODMELWAR, Manohar, FUTANE, Pravin, DEDGAOKAR, Suruchi, WANJALE, Kirti

54: A HOME AUTOMATION SYSTEM WITH CLOUD INTEGRATION, VOICE CONTROL AND BUZZER FEEDBACK

00: -

The present invention is related to a home automation system with cloud integration, voice control, and buzzer feedback. The invention provides a comprehensive solution for remotely controlling household appliances. The system utilizes an ESP8266 microcontroller, a 4-channel relay module, and is integrated with the Arduino Cloud, allowing users to control devices from any location via a web or mobile interface. The system is also equipped with Alexa voice assistant support, enabling hands-free operation of appliances through voice commands. A buzzer provides real-time auditory feedback, confirming successful execution of commands. The system is designed for scalability, allowing the addition of more devices for future automation needs, making it ideal for smart homes, energy management, and assisted living applications.

possessing the necessary skills. To tackle these challenges, this invention introduces a platform that automates resume screening and provides a fair, data-driven evaluation method. This system enables HR professionals to create detailed job postings with clearly defined skill categories—Primary, Secondary, and Other Skills—while allowing candidates to submit their resumes for automatic analysis. The system extracts and categorizes relevant skills, ensuring a comprehensive assessment of each candidate's qualifications. To enhance the selection process, our platform employs a scoring rubric that weighs skill matching and additional achievements, resulting in a ranked list of candidates for more efficient shortlisting. Furthermore, it offers personalized feedback to candidates, providing interview preparation tips for those selected and constructive suggestions for improvement to those not chosen. By focusing on genuine skills demonstrated through projects and work experiences, our system helps reduce resume manipulation and promotes a more accurate evaluation of qualifications. Ultimately, this invention aims to streamline the hiring process, making it more efficient for HR professionals while supporting candidates in their career development and improving their chances for future opportunities.

21: 2025/03798. 22: 2025/05/05. 43: 2025/12/08
51: G06Q

71: VISHWAKARMA INSTITUTE OF TECHNOLOGY

72: ADHAV, Shubham Dnyandev, BADGUJAR, Prafulla Sudam, KATE, Bhakti Arun, NAPHADE, Minal Sandip, FUTANE, Pravin Ramkrishna, KODMELWAR, Manohar, CHAVAN, Gurunath, BHANDARI, Mahesh

54: AN AI-DRIVEN CANDIDATE EVALUATION SYSTEM WITH SMART FILTERING AND ENHANCED INSIGHTS FOR STREAMLINING HIRING PROCESS

00: -

The present invention is related to an AI-Driven candidate evaluation system with smart filtering and enhanced insights for streamlining hiring process. The hiring process is often complicated and inefficient due to the sheer volume of resumes that HR professionals must sift through. Many candidates manipulate their resumes by including popular keywords from job descriptions without actually

21: 2025/03824. 22: 2025/05/06. 43: 2025/12/08
51: E02D

71: CHINA CONSTRUCTION SIXTH ENGINEERING BUREAU FIFTH CONSTRUCTION CO., LTD

72: ZHU Xiaoliu, LIU Wei, CHEN Ke, ZHANG Zhaohuan, LUO Wei

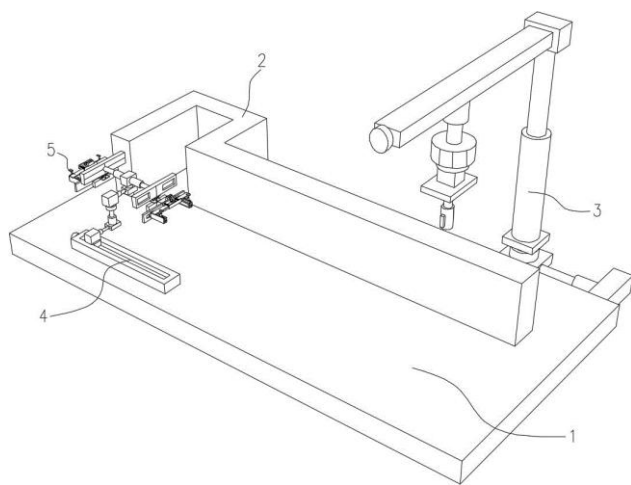
33: CN 31: 2025104628516 32: 2025-04-14

54: MORTISE-AND-TENON THREE-DIMENSIONAL PRINTED CONCRETE FORMWORK AND MANUFACTURING DEVICE

00: -

The present invention relates to the technical field of formwork manufacturing devices, and in particular to a mortise-and-tenon three-dimensional (3D) printed concrete formwork and a manufacturing device. In the present invention, a plurality of groups of concrete formwork are included, the formwork is designed in an L-shape with a tail groove, a groove depth is related to dimensions of a foundation platform, and a standard depth is L/3, with L denoting a length of the foundation platform; the

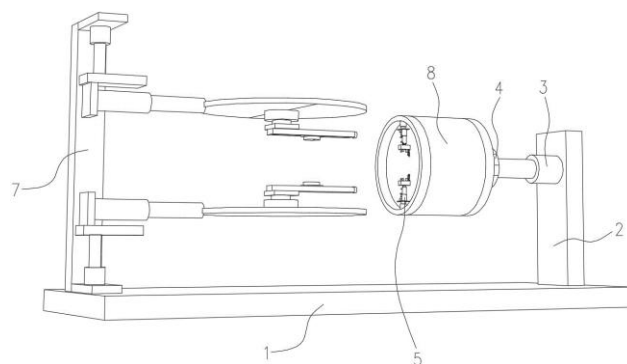
formwork dimensions can be freely adjusted according to the condition of the foundation platform; this formwork is used for foundation platform casting construction, a complete formwork system is formed by four pieces of formwork, in which the first three pieces can be directly inserted into the grooves, and the fourth piece is embedded into the groove from top to bottom, achieving stability through tail groove engagement; and it is easy to mount this formwork, eliminating the need for extra reinforcement measures including diagonal braces, and after the completion of platform casting, the formwork can directly serve as part of the foundation platform without formwork removal, facilitating the next step of earthwork backfilling construction, and significantly improving construction efficiency.



21: 2025/03825. 22: 2025/05/06. 43: 2025/12/08
51: B25B
71: CHINA CONSTRUCTION SIXTH
ENGINEERING BUREAU FIFTH CONSTRUCTION
CO., LTD
72: LIU Wei, ZHANG Zhaohuan, LUO Wei, GUAN
Chunlei, ZHU Xiaoliu
33: CN 31: 2025103173725 32: 2025-03-18
**54: SELF-ASSEMBLY TYPE DISASSEMBLY
AUXILIARY DEVICE FOR BUTT BOLT**
00: -

The present invention relates to the technical field of bolt disassembly, and in particular to a self-assembly type disassembly auxiliary device for a butt bolt. A working plate is included, a supporting plate is mounted at an edge of a top of the working plate, a first electric push rod is mounted on one side wall of the supporting plate, and a first motor is mounted at an output end of the first electric push rod. According

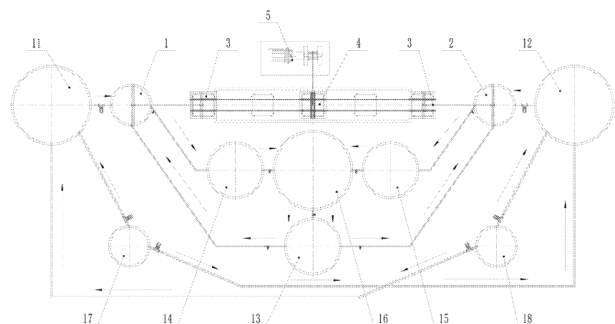
to the present invention, fourth motors are started to drive shovel blades to rotate and abut against a surface of a screw rod, and vibration motors are started to drive the shovel blades to vibrate and shake off the concrete on the surface of the screw rod, and the first motors are started to drive a tension bolt for disassembly operations. Due to irregularly shaped concrete adhering to surfaces of the bolt, the device achieves protective rotation through cushioning between two groups of compression springs to prevent structural damage during disassembly, improving the protective effect of bolt disassembly. Moreover, during rotational disassembly, the shovel blades preliminarily remove the concrete on a traveling path, which improves the disassembly auxiliary effect of the device.



21: 2025/03832. 22: 2025/05/06. 43: 2025/12/08
51: F01K; F03G
71: Luguo ZHANG, Chenxi ZHANG, Chenyu ZHANG
72: Luguo ZHANG, Chenxi ZHANG, Chenyu ZHANG
**54: PISTON TYPE GAS POWER WELL ENERGY
STORAGE AND POWER GENERATION SYSTEM
AND ENERGY STORAGE AND POWER
GENERATION METHOD**
00: -

The present invention relates to a piston-type gas-powered well-based energy storage and power generation system, which comprises a gas-powered well, a lifting well, a falling well, a piston assembly, an isolation device, power generation equipment, and gravity blocks. This system utilizes the properties of ammonia gas and hydrogen chloride gas, which are highly soluble in water with large solubility capacity, to provide a power system independent of natural and resource constraints. The system lifts heavy gravity blocks for energy storage by means of the gas-powered well system and subsequently releases the stored gravitational

energy for stable and sustained power generation. Alternatively, the power system can also be used for direct power generation or mechanical power output. The system enables grid-based, miniaturized, and modular power supply configurations, thereby eliminating the need for long-distance, cross-regional power transmission.



21: 2025/05382. 22: 2025/06/24. 43: 2025/10/02

51: A42B; F21V; F41H

71: JSP LIMITED

72: JOHNSTONE, Clive, SANDERS, Steve, WYLD, Jack

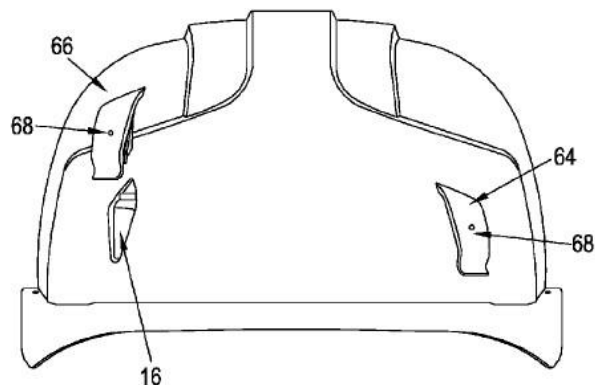
33: GB 31: 2217708.3 32: 2022-11-25

54: ARTICLE OF HEADGEAR, MOUNTING CLIPS, AND ACCESSORIES

00: -

An article of headgear, such as a safety helmet, comprises a shell (10) with an outer surface having at least one locating notch (14, 16) defining an opening (22). The notch has first and second ends (24, 26), a base, and side walls (30, 32) extending from the base to the outer surface to form a continuous surface with the outer surface of the shell. The width of the opening decreases from one end towards the other. The depth of the side walls increases from one end towards the other. The width of the base decreases from one end towards the other and is wider at the other end than the width of the opening at the other end. The shell has a slot (20) in the outer surface aligned with the end of the notch. A mounting clip (40) comprises a mounting plate (42) and a locating tongue (48). One end is connected to the end to the mounting plate so that the tongue extends parallel to the mounting plate. The tongue comprises a tab (54) at the end on the opposite side to the mounting plate, and a wedge portion (56) defined in the other end on the opposite side to the mounting plate, the wedge section

narrowing towards the second end. The end of the mounting plate extends beyond the end of the locating tongue and is curved towards the locating tongue. The locating tongue fits in the locating notch so that the wedge section seats in the notch at the end, the tab fits in the slot, and the end of the mounting plate acts against the outer surface of the shell below the end of the notch to urge the tab into the slot.



21: 2025/06793. 22: 2025/08/14. 43: 2025/11/03

51: C01F; C22B

71: NORTHEASTERN UNIVERSITY

72: LI, Yanjun, LI, Wenbo, ZHANG, Xiaolong, QU, Rui, HAN, Yuxin

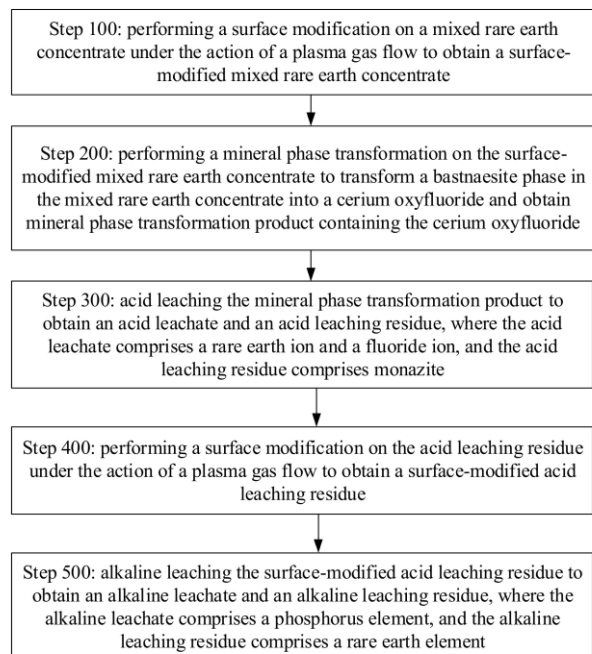
33: CN 31: 202411210144.X 32: 2024-08-30

54: METHOD FOR LEACHING SEPARATION OF MIXED RARE EARTH CONCENTRATE

00: -

Disclosed is a method for leaching separation of a mixed rare earth concentrate. The method include: completing surface modification on the concentrate under the action of a plasma gas flow, and obtaining a surface-modified mixed rare earth concentrate; performing mineral phase transformation on the surface-modified mixed rare earth concentrate, transforming a bastnaesite phase in the mixed rare earth concentrate into a cerium oxyfluoride, and obtaining a mineral phase transformation product containing the cerium oxyfluoride; performing acid leaching on the mineral phase transformation product, and obtaining an acid leachate and an acid leaching residue; completing surface modification on the acid leaching residue under the action of a plasma gas flow, and obtaining a surface-modified acid leaching residue; and performing alkaline leaching on the surface-modified acid leaching

residue, and obtaining an alkaline leachate and an alkaline leaching residue.



21: 2025/07028. 22: 2025/08/22. 43: 2025/09/26

51: D01D; D01F

71: Deakin University

72: ATKISS, Stephen Paul, MAGHE, Maxime Robert

54: PRECURSOR STABILISATION PROCESS

00: -

The invention relates to an improved process for forming a stabilised precursor that is suitable for the manufacture of carbon materials, such as carbon fibre. The process can convert a precursor comprising polyacrylonitrile into a stabilised precursor with greater efficiency. The invention also relates to a process for preparing a carbon fibre that utilises the stabilised precursor.

21: 2025/07067. 22: 2025/08/25. 43: 2025/11/18

51: E21F

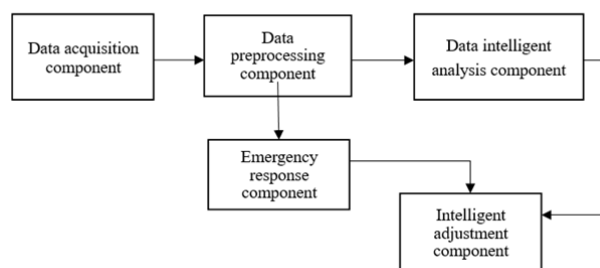
71: Shandong Gold Mining (Laizhou) Co., Ltd.
Jiaojia Gold Mine

72: JUNGANG QIU, XUEHUI CHEN, YONGJIANG YAN, ZHIGUANG WU, GUANGFENG ZHANG, HAO GU, MINGZHOU LIU, WEITAO LV, JINFU DONG
33: CN 31: 202510242392.0 32: 2025-03-03

54: INTELLIGENT CONTROL SYSTEM AND METHOD FOR MINE VENTILATION AUTOMATION

00: -

Provided are an intelligent control system and method for mine ventilation automation. The intelligent control method for mine ventilation automation includes the following steps: performing preprocessing on raw data to obtain preprocessed data; performing intelligent analysis on the preprocessed data by a multi-adaptive dynamic game optimization algorithm to obtain analysis results, and generating final control strategies based on the analysis results; introducing predictive feedback and real-time feedback to dynamically adjust the final control strategies to obtain adjusted control strategies; and obtaining adjusted control instructions and emergency control instructions based on the adjusted control strategies and the preprocessed data to adjust control devices in a mine. The intelligent control system and method for mine ventilation automation address the technical problems of poor adaptability and low efficiency of mine ventilation control in complex environments.



21: 2025/07213. 22: 2025/08/28. 43: 2025/10/01

51: C07K

71: ANHUI UNIVERSITY OF CHINESE MEDICINE

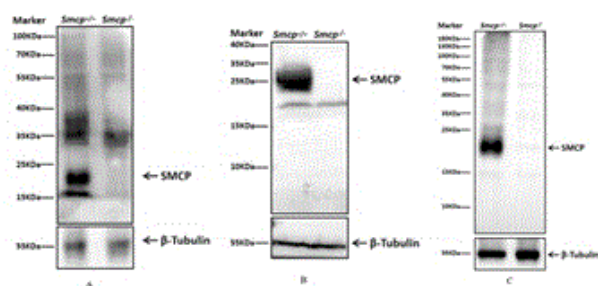
72: WANG, CHANG, XIA, XUN, XIE, QINGSONG, WANG, HUI, MA, XUAN, WANG, JINGLIN, LI, FAN
33: CN 31: 2025109311061 32: 2025-07-07

54: SMCP POLYCLONAL ANTIBODY, PREPARATION METHOD THEREFOR AND USE THEREOF

00: -

The present invention belongs to the technical field of immunodetection, and particularly discloses an SMCP polyclonal antibody, a preparation method therefor and use thereof. The preparation method of the present invention includes: immunizing an animal with a polypeptide including an amino acid sequence as shown in SEQ ID NO:1 as an immunogen, collecting whole blood from the immunized animal, and performing isolation to obtain the SMCP polyclonal antibody. Beneficial effects of

the present invention are as follows: by adopting a specific SMCP protein antigen epitope as the immunogen to immunize the animal in the present invention, mass preparation of an antibody that specifically recognizes an SMCP protein is facilitated. The SMCP antibody prepared by the method of the present invention has good specificity and can be used in Western blot (WB), immunofluorescence (IF), and co-immunoprecipitation (Co-IP) experiments, thereby providing an important research tool for studying a pathogenic mechanism of asthenozoospermia caused by SMCP deficiency.



21: 2025/07957. 22: 2025/09/17. 43: 2025/10/01
51: G01R

71: BEIJING CHANGFENG INNOVATION
TECHNOLOGY CO., LTD.

72: SHE, ZHIPING

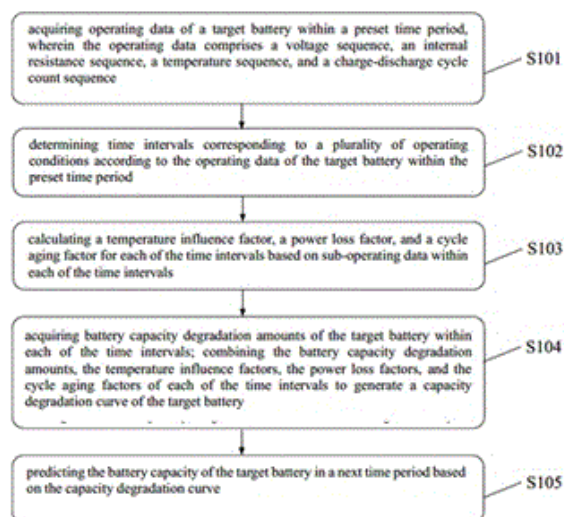
33: CN 31: 202411635341.6 32: 2024-11-15

54: BATTERY CAPACITY ANALYSIS AND PREDICTION METHOD AND SYSTEM FOR BATTERY

00: -

A battery capacity analysis and prediction method and system relates to a technical field of data processing. The method includes: acquiring operating data of a target battery within a preset time period, wherein the operating data comprises a voltage sequence, an internal resistance sequence, a temperature sequence, and a charge-discharge cycle count sequence; determining time intervals according to the operating data; calculating a temperature influence factor, a power loss factor, and a cycle aging factor for each of the time intervals based on sub-operating data within each of the time intervals; acquiring battery capacity degradation amounts of the target battery within each of the time intervals; combining the battery capacity degradation amounts, the temperature influence factors, the

power loss factors, and the cycle aging factors of each of the time intervals to generate a capacity degradation curve of the target battery; and predicting the battery capacity for a next time period based on the capacity degradation curve.



21: 2025/07984. 22: 2025/09/18. 43: 2025/10/01

51: B23K

71: BEIJING SOONCABLE TECHNOLOGY GROUP
CO., LTD.

72: SUN, ZHANGUO, JIANG, LIANG, ZHANG,
TIANIAN

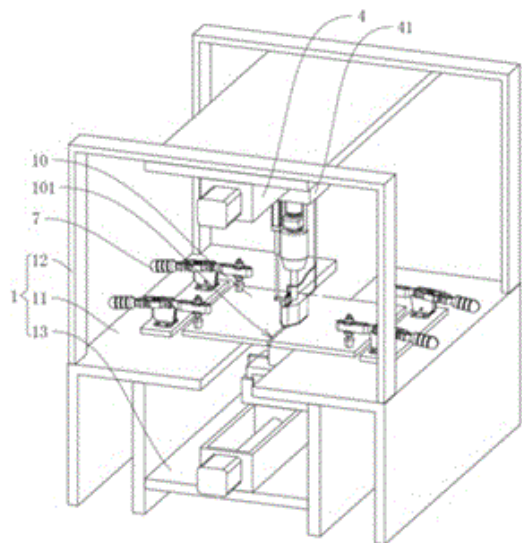
33: CN 31: 202510962056.3 32: 2025-07-14

54: FRICTION STIR WELDING DEVICE AND WELDING METHOD THEREOF

00: -

The present application relates to the technical field of welding, and provides a friction stir welding device and a welding method thereof. The friction stir welding device includes a worktable, a welding system, a feed system, and a material feeding system. The welding system includes a stirring head and a spindle drive mechanism, where the stirring head includes an upper shoulder, a lower shoulder, and a stirring pin; the feed system drives the welding system to move horizontally; the material feeding system includes a material feeding mechanism and an air flotation mechanism, the material feeding mechanism includes a chip collection cylinder and a gas-blowing guide assembly, and may further include a material receiving tray; the air flotation mechanism provides a vertically upward airflow to the material collection end; a clamping assembly is

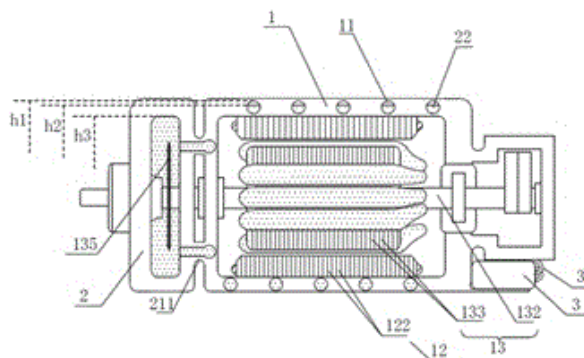
arranged above the worktable, a driven sliding assembly is arranged below the worktable, and a lifting platform is provided at one side of the spindle drive mechanism. The present application further relates to a welding method using the device. The present application achieves effects such as optimizing the friction stir welding process, improving welding quality and efficiency, and enabling precise material supplementation.



21: 2025/08007. 22: 2025/09/18. 43: 2025/10/01
51: H02K; F16N; F16F
71: CHANGZHOU CHANGHUA MOTOR CO., LTD.
72: XIANG, HUA, GE, JINQIANG, OU, CHUNPING,
SHEN, XING
33: CN 31: 202510404810.1 32: 2025-04-02
54: NOISE-REDUCED MOTOR
00: -

Disclosed is a noise-reduced motor, which relates to the field of motors and includes a motor cavity and a bearing cavity, wherein a liquid channel arranged in the circumferential direction thereof is provided at an inner wall of the motor cavity, the liquid channel is in a spiral shape and extends along the length direction of the motor cavity, a stator arranged in the circumferential direction thereof is arranged on the inner wall of the motor cavity, a stator slot extending along the length direction thereof is provided on the stator, a rotor is rotatably assembled inside the motor cavity, and a rotor slot matching with the stator slot is provided on the rotor, the liquid channel is in communication with the bearing cavity via a connecting piece, and is filled with a lubricating

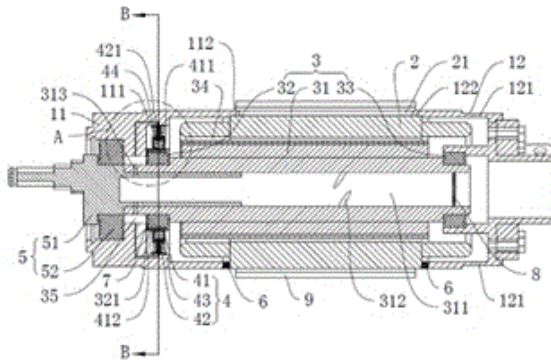
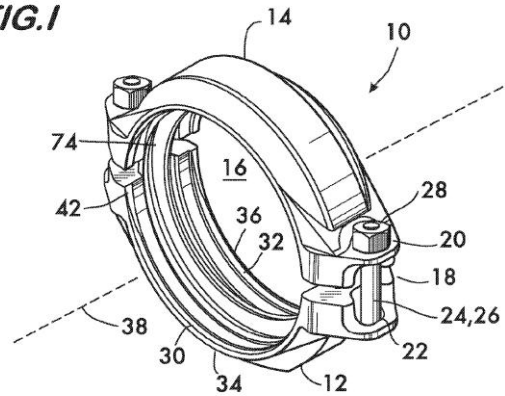
liquid, and the lubricating liquid can effectively absorb some of the vibrations. As a result, the noise generated during operation of the motor can be reduced, and the lubricating liquid can be communicated with the bearing cavity, so that the rotor can be continuously lubricated at the bearing.



21: 2025/08095. 22: 2025/09/22. 43: 2025/10/01
51: H02K; F16C; F16F
71: CHANGZHOU CHANGHUA MOTOR CO., LTD.
72: XIANG, HUA, GE, JINQIANG, OU, CHUNPING,
SHEN, XING
33: CN 31: 202510396778.7 32: 2025-04-01
54: NOISE-REDUCED JIGSAW MOTOR
00: -

The present application relates to the field of electric motors, and more particularly, to a noise-reduced jigsaw motor. The motor includes a housing, a stator, a rotor assembly, and a plurality of damping assemblies. The housing includes a front cover and a rear cover, the stator is located between the front cover and the rear cover, the rotor assembly includes a rotor, a first sealed bearing and a second sealed bearing, and the rotor is rotatably connected to the front cover and the rear cover via the first sealed bearing and the second sealed bearing; an air inlet hole with air inlet blades is provided at a center of the rotor; a plurality of damping assemblies are provided between an outer ring of the first sealed bearing and the front cover for elastically connecting the first sealed bearing and the front cover; and the damping assembly comprises a damping cylinder, a piston rod and an elastic element, and the damping assembly can use the air sucked from the air inlet hole when the rotor rotates to form an "air spring" so as to reduce vibration of the first sealed bearing and the rotor to reduce operating noise of the motor. The present application has the effect of reducing the

operating noise of the oscillating saw motor and improving the stability of the operation thereof.

**FIG.1**

21: 2025/08764. 22: 2025/10/17. 43: 2025/11/27
51: F16L

71: VICTAULIC COMPANY

72: BRANDT, Justin P., CUVO, Anthony J.,
BANCROFT, Philip Wayne

33: US 31: 62/449,765 32: 2017-01-24

54: COUPLING AND CIRCUMFERENTIAL GROOVE SHAPE

00: -

Pipe elements have circumferential grooves. The grooves have a first side surface contiguous with a first floor surface. The first side surface and the first floor surface together subtend a first 90° circular arc when viewed in cross section. The grooves also have a second side surface contiguous with a second floor surface. The second side surface is in spaced relation to and in facing relation with the first side surface. The second side surface and the second floor surface together subtend a second 90° circular arc when viewed in cross section. A third floor surface is contiguous with both the first and second floor surfaces and is a flat surface. A coupling used to connect the pipe elements has arcuate projections which engage the grooves of the pipe elements. The arcuate projections have a semi-circular cross section. Relief grooves are positioned adjacent to each arcuate projection.

21: 2025/09245. 22: 2025/10/31. 43: 2025/12/04
51: A63B; G09B

71: BHT - LDA

72: ÂNGELO JORGE FROTA, Mauro, RATÃO
BATISTA BARATA, Pedro Jorge

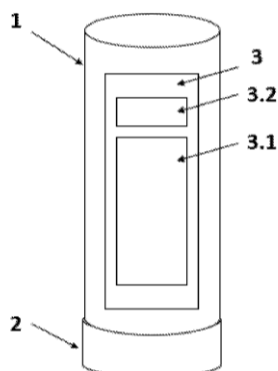
33: PT 31: 118591 32: 2023-04-06

33: PT 31: 119193 32: 2024-01-04

54: AN ELECTRONIC PUNCHING BAG APPARATUS

00: -

It is disclosed an electronic punching bag apparatus comprising a punching bag (1), an anchoring unit (2) adapted to fix the apparatus to at least one surface and an impact measurement unit (3). Said unit (3) is provided with a processor module (3.2) which is operable to process data collected by at least a sensory module (3.1) in order to determine the location and magnitude of an impact produced by a user's strike on the bag's body (1). Thus, the apparatus disclosed in the present application provides enhanced tracking of training performance and increased engagement of the intelligence of the user as the training is undertaken.



21: 2025/09247. 22: 2025/10/31. 43: 2025/12/04
51: A63B; G09B
71: BHT – LDA

72: ÂNGELO JORGE FROTA, Mauro, RATÃO
BATISTA BARATA, Pedro Jorge

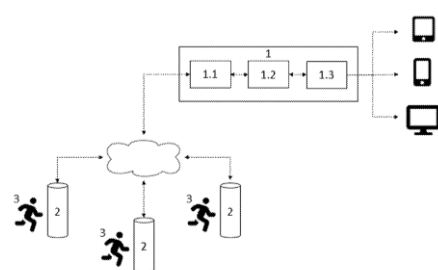
33: PT 31: 118594 32: 2023-04-06

33: PT 31: 119196 32: 2024-01-04

54: A SYSTEM FOR GAMIFYING A PUNCHING BAG TRAINING SESSION

00: -

The object of the present application relates to a gamified-based system able to create a gamified training environment when a player (3) is performing a punching bag training session. For that purpose, the system comprises a central processing unit (1) that are communicably coupled to a plurality of electronic punching bags (2), each punching bag comprising detection means (2.1, 2.2) adapted to collect the bag's weight data and the impact data caused by a player's strike, which is then communicated to a calibration module (1.1) and a performance module (1.2), in order to determine the player's performance data. This approach allows to determine a player's performance in a uniform way, so that a direct comparison with other players, that may be executing the same training session, be performed reliably. Said player's performance data can be accessed via a player interface module (1.3).



21: 2025/09276. 22: 2025/11/03. 43: 2025/11/18

51: A61B; G06F

71: CAO, Qingheng

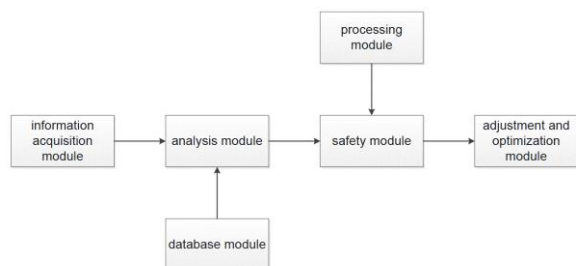
72: CAO, Qingheng

33: CN 31: 202310358178.2 32: 2023-04-04

54: BRAIN COMPUTER SIGNAL SECURITY SYSTEM AND USE METHOD THEREOF

00: -

The present invention discloses a braincomputer signal safety system and its method of use, which pertains to the technical field of intelligent information processing. The braincomputer signal safety system comprises: An information acquisition module (consistent with the "data acquisition module" elsewhere in this specification) configured to acquire braincomputer signals and safety information related to the braincomputer signals; An analysis module configured to take the braincomputer signals and the safety information of the braincomputer signals as inputs, conduct analysis using a braincomputer signal safety model, determine whether the braincomputer signals meet the safety constraints, and obtain appropriate braincomputer signal safety measures when the safety constraints are met; A safety module configured to perform safety processing on the braincomputer signals according to the appropriate braincomputer signal safety measures. By performing safety processing on the braincomputer signals through the appropriate braincomputer signal safety measures derived from the preestablished braincomputer signal safety model, the safety of the BrainComputer Interface (BCI) can be improved, the usage effect of the BCI can be enhanced, and safety hazards to the subjects affected by the braincomputer signals can be avoided.



21: 2025/09280. 22: 2025/11/03. 43: 2025/11/18

51: G06N

71: CETC BIGDATA RESEARCH INSTITUTE CO., LTD.

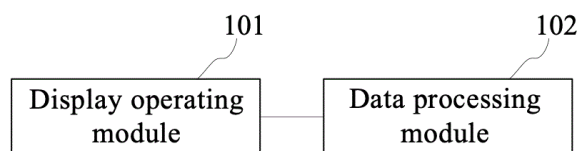
72: XIE, Zhenqiang, TAO, Zhengping, ZHONG, Yixing, YANG, Shu, HUANG, Guo, HU, Jiaojiao, WANG, Shengyi

33: CN 31: 202310389405.8 32: 2023-04-13

54: FEDERATED LEARNING SYSTEM, FEDERATED LEARNING METHOD, AND FEDERATED LEARNING DEVICE

00: -

The present invention provides a federated learning system, a federated learning method, and a federated learning device. A specific implementation solution is as follows: a display operation module, used for displaying data resource information and model algorithm names of multiple parties, receiving task information inputted by a demand party and an operation of the demand party for the data resource information and the model algorithm names, and generating a task request on the basis of the operation; and a data processing module, used for receiving the task request and the task information, determining a demand task of the demand party, performing validity judgment on the demand task, and in response to the demand task being valid, performing federated training on models of the parties corresponding to the demand task so as to obtain a global task model. By means of the present embodiments, the efficiency of federated learning is improved.



21: 2025/09281. 22: 2025/11/03. 43: 2025/11/18

51: G06F; G06N

71: CETC BIGDATA RESEARCH INSTITUTE CO., LTD, TAIJI COMPUTER CORPORATION LIMITED

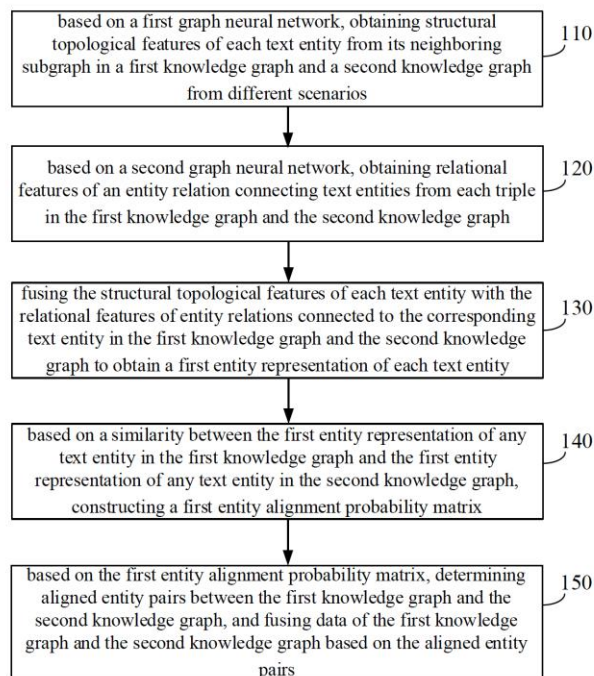
72: CAO, Yang, LI, Xiang, ZHONG, Kai, XIE, Hongtao, WANG, Rong, ZHI, Ting, QI, Gang, CHENG, Jianrun, ZHOU, Wei, HUANG, Tiechun

33: CN 31: 202310416643.3 32: 2023-04-19

54: METHOD FOR PROCESSING MULTI-SCENARIO HETEROGENEOUS DATA

00: -

Provided in the present invention is a method for processing multi-scenario heterogeneous data. The method comprises: extracting graph structure information from a neighbor sub-graph of each text entity in a first knowledge graph and a second knowledge graph in different scenarios, and acquiring a structure topology feature of the text entity; acquiring, from each triplet of the first knowledge graph and the second knowledge graph, a relation feature of an entity relation that connects text entities; fusing the structure topology feature of each text entity in the first knowledge graph and the second knowledge graph with a relation feature of an entity relation that connects corresponding text entities, so as to obtain a first entity representation of each text entity; on the basis of the similarity between a first entity representation of any text entity in the first knowledge graph and a first entity representation of any text entity in the second knowledge graph, constructing a first entity alignment probability matrix; and on the basis of the first entity alignment probability matrix, determining an aligned entity pair from the first knowledge graph and the second knowledge graph. By means of the present invention, the accuracy of fusion of heterogeneous data is improved.



21: 2025/09321. 22: 2025/11/04. 43: 2025/11/18
51: H04B

71: Hunan Lingte Technology Co., Ltd.

72: Dongsan LIU, Zebin LIU, Hao LI, Xiangjun LI, Liang XU

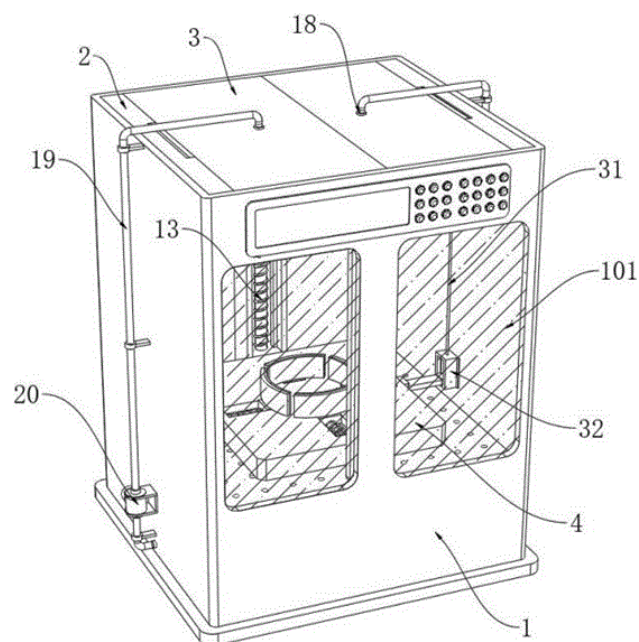
33: CN 31: 202411686848.4 32: 2024-11-25

54: WATERPROOF GRADE TEST EQUIPMENT FOR AVIATION OBSTRUCTION LIGHT

00: -

This disclosure relates to the technical field of waterproof performance test equipment, and discloses waterproof grade test equipment for an aviation obstruction light. The waterproof grade test equipment includes a test box, a test cavity is arranged in the test box, mounting plates are fixedly mounted on two sides of the top of the test box, two top covers are rotatably mounted between the two mounting plates, a plurality of spraying heads are mounted at bottom ends of the two top covers, a test bench is arranged inside the test cavity, and a driving mechanism for driving the test bench to ascend and descend is arranged in the test cavity. In this disclosure, the top cover is arranged at the top of the test box, so that the aviation obstruction light can be stored and taken out by opening the top cover, and since the spraying head is arranged below the top cover, sprayed water is difficult to splash to a bottom wall of the top cover, the top cover is rotated by 90 degrees at most when the top

cover is opened, and even if water droplets remain on the top cover and the spraying head, the water droplets drop downwards into the test box to be recycled, which effectively prevents the water droplets from dropping on the ground, and avoids waste of water resources.



21: 2025/09530. 22: 2025/11/11. 43: 2025/11/18
51: C22B

71: Metallurgical laboratory branch of Shandong gold mining technology Co., Ltd., Shandong Gold Mining (Laizhou) Co., Ltd. Sanshandao Gold Mine, Chifeng Shandong Gold Hongling Nonferrous Mining Co., Ltd., China University of Mining and Technology (Beijing)

72: Qin Guanglin, Ji Fengyun, Liu Yunzhi, Sun Lianxi, Wang Nan, Deng Jiushuai, Ji Qiang, Gao Tengyue, Wang Junjie, Qin Xiangwei, Chen Yanbo, Wang Kaimei, Bai Ruihua, Li Guangsheng

33: CN 31: 2025106523896 32: 2025-05-21

54: A METHOD FOR REDUCING SODIUM CYANIDE CONSUMPTION IN COPPER-BEARING GOLD ORES

00: -

The present invention discloses a method for reducing sodium cyanide consumption in copper-bearing gold ores, belonging to the field of hydrometallurgical technology. After mixing copper-bearing gold ore with gold concentrate cyanide residue in a certain proportion, a pretreatment process is carried out. The acid produced during pretreatment reacts with carbonates in the copper

minerals, exposing the copper minerals. Upon the addition of ammonium salts, copper in the copper minerals forms complexes with ammonia. Through solid-liquid separation, copper no longer enters the cyanidation leaching system, thereby achieving the goal of reducing sodium cyanide consumption. The process of the present invention is simple, low-cost, and effectively solves the problem of high sodium cyanide consumption during the cyanide leaching process of copper-bearing gold ores. After treatment using the method of the present invention, sodium cyanide consumption is reduced by more than 75%.

21: 2025/09662. 22: 2025/11/13. 43: 2025/11/18
51: G01D; H04Q; G06Q; H04W

71: NORTH CHINA INSTITUTE OF SCIENCE AND TECHNOLOGY NATIONAL SAFETY TRAINING CENTER OF COAL MINES

72: CHENG, Zhiheng, LI, Zhenhua, CHEN, Liang, ZHANG, Jun, WANG, Hongbing, ZHANG, Jinhu, YIN, Shuaifeng, ZOU, Quanle, ZHANG, Jingui, CAI, Feng, LI, Chunyuan, WANG, Lei, GAO, Xu, ZHAO, Zhiqiang, ZHAO, Zhiyan, YAN, Dahe, LI, Rui, ZHANG, Hongtu

33: CN 31: 2023105584836 32: 2023-05-18

54: COAL MINE GAS INSPECTION METHOD

00: -

A coal mine gas inspection method, including: receiving a first inspection task, and according to the first inspection task, generating a sub-inspection task list containing a plurality of sub-inspection tasks; where each sub-inspection task includes an offline inspection task and an online inspection task, and the offline inspection task and the online inspection task have the same inspection interval identifier, where the offline inspection task and the online inspection task both include a passage-way inspection path and an inspection item, and an inspection starting point and an inspection ending point of the passageway inspection path; according to the network quality, executing the sub-inspection tasks in the sub-inspection task list, and according to an execution result of the sub-inspection tasks, updating the sub-inspection task lists: where each inspection item includes gas information and environment information. The method may improve the coal mine gas inspection efficiency and specificity.

AA

A gas inspection robot receives a first inspection task

BB

According to the first inspection task, generate a sub-inspection task list containing a plurality of sub-inspection tasks

CC

According to the network quality, execute the sub-inspection tasks in the sub-inspection task list, and according to an execution result of the sub-inspection tasks, update the sub-inspection task lists

21: 2025/09663. 22: 2025/11/13. 43: 2025/11/18
51: G06Q

71: NORTH CHINA INSTITUTE OF SCIENCE AND TECHNOLOGY NATIONAL SAFETY TRAINING CENTER OF COAL MINES

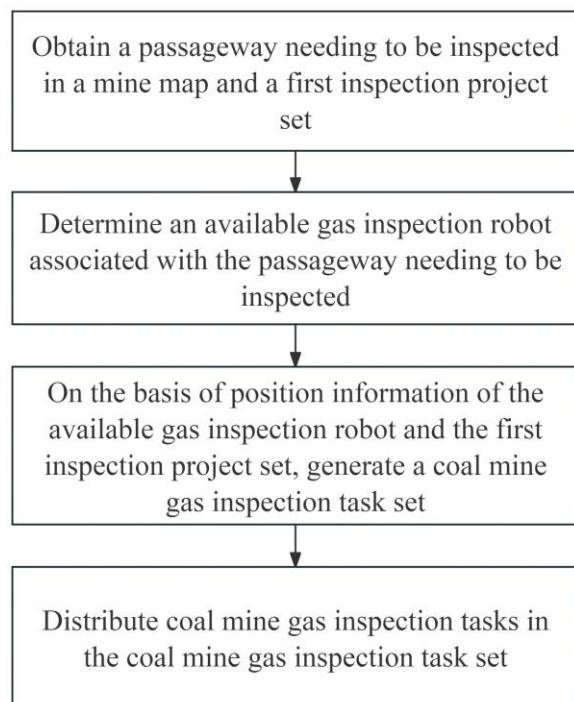
72: CHENG, Zhiheng, ZHANG, Jinhu, CHEN, Liang, ZHANG, Hongtu, CHEN, Guangjin, DU, Feng, LIU, Shiwei, CUI, Guibo, SUN, Xiaoyan, ZHANG, Jian, YANG, Zhengkai, JIANG, Yanjun, QIN, Hongyan, YANG, Tao, CUI, Yongguo, SI, Junhong, ZHANG, Zhenli, LI, Meichen, GUO, Kai, XUE, Ao, ZHAO, Zhechen

33: CN 31: 2023105584751 32: 2023-05-18

54: COAL MINE GAS INSPECTION TASK GENERATION AND DISTRIBUTION METHOD AND APPARATUS

00: -

The invention belongs to the technical field of mine safety informatization, and particularly relates to a coal mine gas inspection task generation and distribution method and apparatus. The method specifically comprises: obtaining a passageway needing to be inspected in a mine map and a first inspection project set; determining an available gas inspection robot associated with the passageway needing to be inspected; on the basis of position information of the available gas inspection robot and the first inspection project set, generating a coal mine gas inspection task set, wherein the coal mine gas inspection task set covers the first inspection project set; distributing coal mine gas inspection tasks in the coal mine gas inspection task set; wherein the coal mine gas inspection task comprises a task executed when the gas inspection robot is online and a task executed when offline. By means of the method, the distribution of the passageway inspection tasks can be flexibly achieved.



21: 2025/09760. 22: 2025/11/17. 43: 2025/12/04

51: A01D

71: SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES

72: Qiangji PENG, Wei LIU, Zhongkai CUI, Huawei YANG, Shucheng WANG, Xuzhen LU

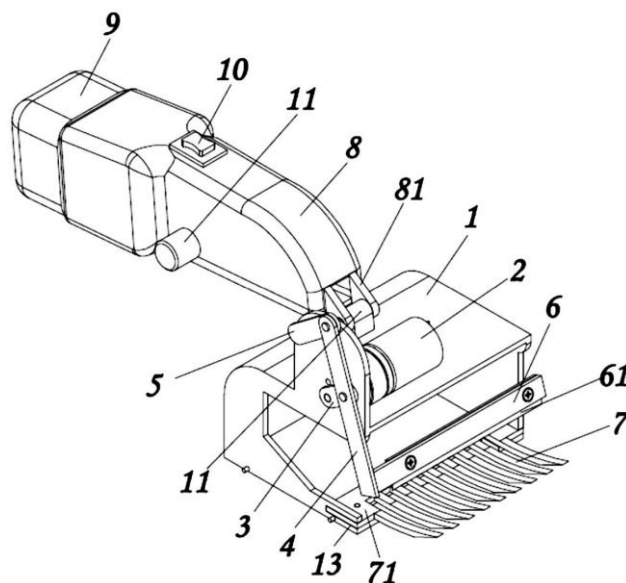
33: CN 31: 2025104067441 32: 2025-04-02

54: HANDHELD CHINESE PRICKLY ASH PICKING MACHINE

00: -

The present invention relates to the technical field of Chinese prickly ash harvesting, and in particular to a handheld Chinese prickly ash picking machine, which comprises a housing, a handle, a comb, a cutter, an electric motor and crank-rocker mechanisms, wherein a front end and the bottom of the housing open, the housing is located at a front end of the handle, the front end of the housing is provided with the comb, the cutter is located above the comb, the electric motor is fixed to the housing, each crank-rocker mechanism comprises a crank, a rocker and a linkage, a first end of the crank is fixedly connected to an output shaft of the electric motor, a second end of the crank is connected to the middle of the linkage by means of a hinge, a first end of the rocker is rotatably connected to the housing, a second end of the rocker is connected to a first end of the linkage by means of a hinge, and a second

end of the linkage is fixedly connected to the cutter. By means of the pull-cut-push-quick return movement, the time during which the cutter moves without load is reduced, and a no-load operation time is short, such that the cutter can be quickly reset, thereby improving the picking efficiency.



21: 2025/09766. 22: 2025/11/17. 43: 2025/11/18

51: A01G

71: SOURYADEEP BASAK, AWSTIKA DAS

72: SOURYADEEP BASAK

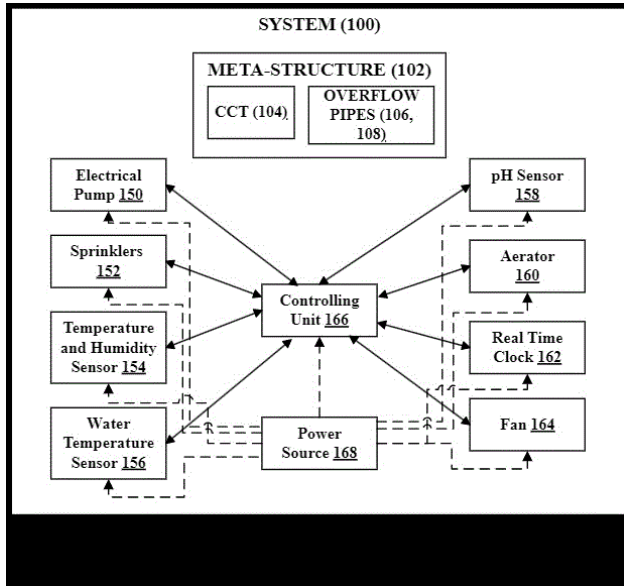
33: IN 31: 202331018679 32: 2023-05-19

54: A SYSTEM FOR ENABLING ARTIFICIAL CULTIVATION OF AZOLLA AND A METHOD THEREOF

00: -

The present disclosure relates to a system for enabling artificial cultivation of azolla for enhancing sequestration of environmental CO₂. The system comprises a multi-level meta-structure, a set of carbon capture tanks, a set of vertical overflow pipes, a set of horizontal overflow pipes, a façade material. Each level of the meta-structure is configured to accommodate a pair of CCTs. The system further comprises an electrical pump for maintaining laminar water flow in each CCT, nozzle-based sprinklers installed over CCTs. The system also includes temperature and humidity sensors for sensing ambient temperature and humidity of the meta-structure, water temperature sensors for sensing temperature of water flowing through the CCTs. Furthermore, the system comprises pH sensors for determining pH of the liquid medium, a

set of aerators to provide regular mixing of growth medium, a real time clock, a set of fans for regulating meta-structure temperature and humidity, a controlling unit, and a power source.



21: 2025/09853. 22: 2025/11/19. 43: 2025/12/04

51: E21B; G01C

71: China University of Mining and Technology

72: FANG Kun, ZHANG Jixiong, LIU Shuo, HUANG Peng, HE Yang

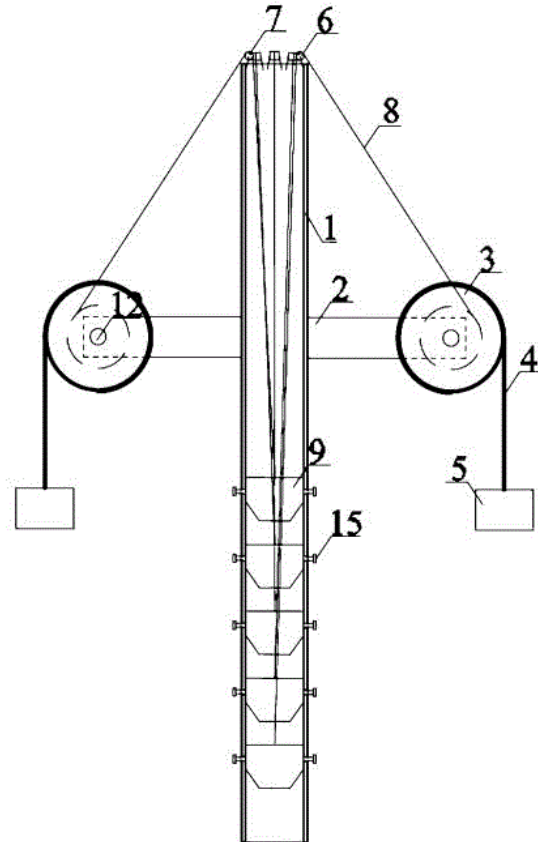
33: CN 31: 2024102727847 32: 2024-03-11

54: MULTI-POSITION BED SEPARATION MONITORING DEVICE FOR COAL MINE OVERLYING STRATA

00: -

A multi-position bed separation monitoring device for a coal mine overlying strata, comprising a sleeve (1), transverse supporting beams (2), winding hubs (3), counterweight lines (4), counterweights (5), counting hubs (6), rotating speed sensors (7), measuring lines (8), anchor heads (9), latch hooks (10), remote control relays (11) and the like. The transverse supporting beams (2) are fixed on the surface of the sleeve (1), each winding hub (3) is sleeved on a corresponding connecting shaft (12) at the front end of the corresponding transverse supporting beam (2) and is limited by means of a corresponding nut piece (13), the counting hubs (6) are fixed to the top end of the sleeve (1), and each measuring line (8) is wound around the corresponding winding hub (3), routed through the corresponding counting hub (6), and then is connected to the corresponding anchor head (9); and each anchor head (9) is fixed in the sleeve

(1) by means of bolts (15), each remote control relay (11) is mounted in the corresponding anchor head (9), and each latch hook (10) is arranged at the front end of the corresponding remote control relay (11), so that dynamic monitoring of overlying strata bed separation displacement caused by coal mining can be realized.



21: 2025/10001. 22: 2025/11/24. 43: 2025/12/04

51: G01F

71: Tianjin Research Institute for Water Transport Engineering, State Ministry of Transport, Tianjin University

72: LI Xianrui, LIU Leilei, XU Bin, ZHANG Xiaodong, ZHAO Haoxu, LIU Xianlei, ZHANG Lei

33: CN 31: 2024105686586 32: 2024-05-09

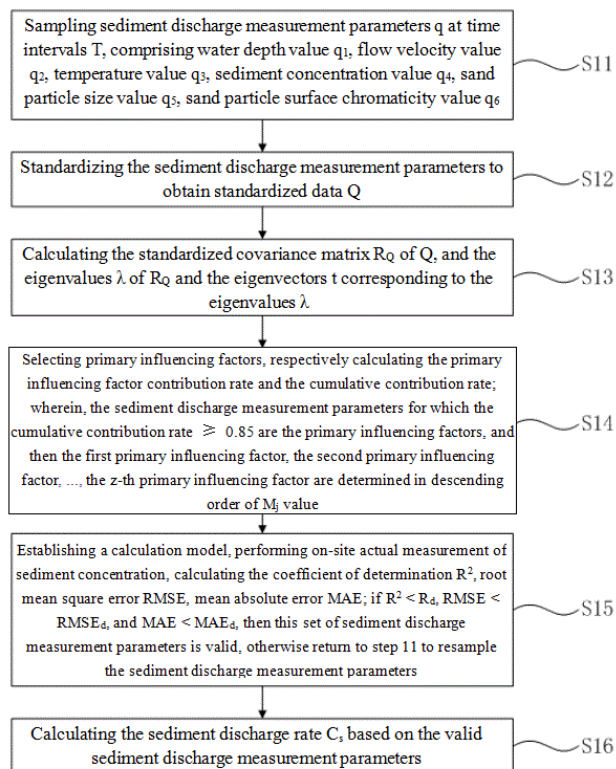
54: MEASUREMENT METHOD BASED ON MULTI-SENSOR ARRAY AND FOR CROSS-SECTIONAL SEDIMENT DISCHARGE IN OPEN CHANNEL

00: -

Disclosed in the present invention is a measurement method based on a multi-sensor array and for cross-sectional sediment discharge in an open channel.

The method comprises the following steps: 1) sampling sediment discharge measurement

parameters q ; 2) performing standardization to obtain standardized data Q ; 3) performing calculation to obtain a standardized covariance matrix R_Q of Q , an eigenvalue λ and an eigenvector t ; 4) selecting main influencing factors, and determining a first main influencing factor, a second main influencing factor, ..., and a z th main influencing factor; 5) performing calculation to obtain a coefficient of determination R^2 , a root mean square error RMSE and a mean absolute error MAE; if $R^2 < R_d$, $RMSE < RMSE_d$ and $MAE < MAE_d$, then determining that the current set of sediment discharge measurement parameters is valid; otherwise, returning to step 1) to sample sediment discharge measurement parameters again; and 6) on the basis of the valid sediment discharge measurement parameters, calculating a sediment discharge C_s . The sediment discharge measurement method in the present invention greatly improves the measurement accuracy of the sediment discharge in an open channel, thereby ensuring effective monitoring of sediment conditions in water bodies.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES



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Department:
Trade, Industry and Competition
REPUBLIC OF SOUTH AFRICA

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NOTIFICATION OF THE PATENT EXAMINATION BOARD IN TERMS OF SECTION 21 OF THE PATENT ACT 1978

PATENT EXAMINATION BOARD

The Patent Examination Board, in terms of Section 21(3)(a)(ix)(bb) of the Patents Act, 1978, has issued certificates to the persons listed below who have passed the prescribed examinations in 2025.

1. Ms Gabrielle Mizen

Ms Udisha Chathuri-Vatta

Chairperson

Patent Examination Board

15 December 2025

Chairperson : Ms Udisha Chathuri-Vatta
Members : Ms Shanaaz Mahomed, Adv Nhlanhla Sibisi, Mr Johnny Fiandeiro, Ms Thandiwe Khumalo,
Dr Magdalena Kleyn and Ms Mathoto Masetla-Mafa
Secretariat : Ms Sheperd Khanyisa Tjale: PEBSecretariat@thedtic.gov.za

3. DESIGNS

DESIGNS

APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993

The particulars appear in the following sequence: Copies of the application and representations cannot be supplied until application is registered and advertised. In all correspondence reference should be made to the number of the application. Application number, full name of applicant, class, articles to which design is to be applied and priority date (if any)

- APPLIED ON 2025/11/21 -

A2025/01411 - New-Tec Integration (Xiamen) Co., Ltd. Class 06. MATTRESS
 A2025/01413 - Essity Hygiene and Health Aktiebolag Class 24. CUTTING DEVICES
 A2025/01415 - TIDE NAVIGATOR LIMITED Class 19. STICKER
 F2025/01422 - Phumlani Fedrick Ngwenya Class 25. CROCODILE
 F2025/01421 - GIDEON HITCHCOCK Class 07. DUAL PURPOSE BRAAI GRID
 F2025/01416 - VAN ZYL, VINCENT VERNON Class 09. CONTAINER
 A2025/01412 - New-Tec Integration (Xiamen) Co., Ltd. Class 06. SOFA
 A2025/01414 - Essity Hygiene and Health Aktiebolag Class 24. CUTTING DEVICES
 A2025/01418 - TIDE NAVIGATOR LIMITED Class 19. STICKER
 A2025/01417 - TIDE NAVIGATOR LIMITED Class 19. STICKER

- APPLIED ON 2025/11/24 -

A2025/01419 - Kebaabetswe Given Thato Makhutla Class 32. INTERACTIVE MOTION-TRACKING AND 3D ROTATING KING PROTEA SCULPTURE IN SOUTH AFRICAN COLOURS FOR G20 SOUTH AFRICA 2025
 A2025/01420 - COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN Class 12. A TYRE FOR HEAVY VEHICLES

- APPLIED ON 2025/11/25 -

A2025/01425 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES
 A2025/01429 - WORXSAFE AB Class 25. PEDESTRIAN RAMP ELEMENT
 A2025/01427 - WORXSAFE AB Class 25. PEDESTRIAN RAMP ELEMENT
 A2025/01430 - WORXSAFE AB Class 25. PEDESTRIAN RAMP ELEMENT
 A2025/01424 - Hilti Aktiengesellschaft Class 8. DEMOLITION HAMMERS
 A2025/01426 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES
 A2025/01428 - WORXSAFE AB Class 25. PEDESTRIAN RAMP ELEMENT
 A2025/01423 - Celeste Botha Class 07. CHOPPING BOARD

- APPLIED ON 2025/11/26 -

F2025/01434 - TIY MANUFACTURING (PTY) LTD Class 12. DEBULKING TRAILERS
 A2025/01436 - BATA SOUTH AFRICA (PROPRIETARY) LIMITED Class 2. SOLES FOR FOOTWEAR
 F2025/01433 - TIY MANUFACTURING (PTY) LTD Class 12. DEBULKING TRAILERS
 A2025/01437 - Safeera khan Class 11. TRINKET TRAY+CATCH ALL
 F2025/01432 - TIY MANUFACTURING (PTY) LTD Class 12. DEBULKING TRAILERS
 F2025/01435 - TIY MANUFACTURING (PTY) LTD Class 12. DEBULKING TRAILERS

- APPLIED ON 2025/11/27 -

A2025/01445 - YETI COOLERS, LLC Class 3. CONTAINER
 A2025/01443 - Huawei Technologies Co., Ltd. Class 14. MOBILE PHONES
 F2025/01439 - TIY MANUFACTURING (PTY) LTD Class 12. DEBULKING TRAILERS
 A2025/01442 - Deborah Dos Santos Class 11. CHRISTMAS PRODUCTS
 A2025/01441 - Deborah Dos Santos Junior Class 11. CHRISTMAS PRODUCTS
 F2025/01440 - TIY MANUFACTURING (PTY) LTD Class 12. DEBULKING TRAILERS
 A2025/01444 - YETI COOLERS, LLC Class 3. CONTAINER
 A2025/01446 - YETI COOLERS, LLC Class 3. CONTAINER
 F2025/01438 - TIY MANUFACTURING (PTY) LTD Class 12. DEBULKING TRAILERS

- APPLIED ON 2025/11/28 -

A2025/01451 - The Goodyear Tire & Rubber Company Class 12. TIRES
 A2025/01455 - Kenvue Brands LLC Class 9. PACKAGING CONTAINERS WITH INSTRUCTIONAL GRAPHICS
 A2025/01449 - New-Tec Integration (Xiamen) Co., Ltd. Class 06. SOFA
 A2025/01454 - Kenvue Brands LLC Class 9. PACKAGING CONTAINERS WITH INSTRUCTIONAL GRAPHICS

A2025/01450 - New-Tec Integration (Xiamen) Co., Ltd. Class 08. A CONNECTING PART OF A SPRING UNIT
A2025/01453 - Kenvue Brands LLC Class 9. PACKAGING CONTAINERS WITH INSTRUCTIONAL GRAPHICS
F2025/01458 - CSIR Class 12. WHEELCHAIRS

A2025/01456 - Kenvue Brands LLC Class 9. PACKAGING CONTAINERS WITH INSTRUCTIONAL GRAPHICS

A2025/01457 - New-Tec Integration (Xiamen) Co., Ltd. Class 06. INTEGRATED BEDSTEADS

A2025/01448 - Deborah Dos Santos Junior Class 06. CHRISTMAS PRODUCTS

A2025/01452 - The Goodyear Tire & Rubber Company Class 12. TIRES

A2025/01447 - Deborah Dos Santos Junior Class 11. CHRISTMAS PRODUCTS

- APPLIED ON 2025/12/01 -

A2025/01461 - Marketwing LTD Class 14. FOLDABLE SUPPORT AND HOLDER FOR PORTABLE ELECTRONIC DEVICES

A2025/01459 - Luckin Food Technology (Shanghai) Co., Ltd. Class 07. DRIP COFFEE MACHINE

A2025/01460 - Marketwing LTD Class 14. FOLDABLE SUPPORT AND HOLDER FOR PORTABLE ELECTRONIC DEVICES

A2025/01462 - Marketwing LTD Class 14. FOLDABLE SUPPORT AND HOLDER FOR PORTABLE ELECTRONIC DEVICES

F2025/01464 - Marketwing LTD Class 14. FOLDABLE SUPPORT AND HOLDER FOR PORTABLE ELECTRONIC DEVICES

F2025/01463 - Marketwing LTD Class 14. FOLDABLE SUPPORT AND HOLDER FOR PORTABLE ELECTRONIC DEVICES

F2025/01465 - Marketwing LTD Class 14. FOLDABLE SUPPORT AND HOLDER FOR PORTABLE ELECTRONIC DEVICES

- APPLIED ON 2025/12/02 -

A2025/01473 - The Best Trust (Registration No: IT001800/2017(C)) Class 23. SPLIT FLANGE ADAPTOR – PLATE-TYPE.

A2025/01470 - FUTURE4BABY NPC Class 6. CONVERTIBLE PLAY MAT

A2025/01471 - UNILEVER IP HOLDINGS B.V. Class 19. LABEL

A2025/01466 - Clover Waters (Pty) Ltd Class 09. SPLASH BOTTLE STILL

A2025/01468 - Clover Waters (Pty) Ltd Class 09. SPLASH BOTTLE SPARKLING

A2025/01472 - UNILEVER IP HOLDINGS B.V. Class 19. LABEL

A2025/01467 - Clover Waters (Pty) Ltd Class 09. SPLASH BOTTLE STILL

A2025/01469 - Clover Waters (Pty) Ltd Class 09. SPLASH BOTTLE SPARKLING

- APPLIED ON 2025/12/03 -

A2025/01478 - LUZOLO, Mbumba Joel Class 8. SCRAPERS

F2025/01474 - Rudolf Leimlehner Class 8. MOUNTING BRACKET

F2025/01477 - VERMAAK, Tommy Gerhardus Class 7. A BARBECUE APPARATUS

F2025/01475 - Rudolf Leimlehner Class 25. MOUNTING BRACKET

A2025/01476 - VERMAAK, Tommy Gerhardus Class 7. AN APPARATUS FOR STARTING A FIRE

- APPLIED ON 2025/12/04 -

A2025/01479 - Otto Lane Bester Class 03. AUTOMATED PILL DISPENSER

- APPLIED ON 2025/12/05 -

A2025/01484 - SWEDISH MATCH NORTH EUROPE AB Class 27. SNUFF BOX

A2025/01483 - SWEDISH MATCH NORTH EUROPE AB Class 27. LID FOR A SNUFF BOX

A2025/01486 - SWEDISH MATCH NORTH EUROPE AB Class 32. ORNAMENT, SURFACE PATTERN

A2025/01481 - SWEDISH MATCH NORTH EUROPE AB Class 27. A SNUFF BOX

A2025/01485 - SWEDISH MATCH NORTH EUROPE AB Class 32. ORNAMENT, SURFACE PATTERN

A2025/01480 - RESTALIA GRUPO DE EURORESTAURACIÓN, S.L. Class 09. CASE

A2025/01482 - SWEDISH MATCH NORTH EUROPE AB Class 27. SNUFF BOX, PART OF

- APPLIED ON 2025/12/08 -

F2025/01487 - DAK ENGINEERING PROPRIETARY LIMITED Class 8. BARREL FOR INDICATING LOAD ON A CABLE BOLT

A2025/01489 - JJ Govender Class 25. AFRO-FUTURISM INFRASTRUCUTRE BUILDING DESIGNS

F2025/01488 - JJ Govender Class 15. EDGE COMPUTING PODS

F2025/01490 - JJ Govender Class 25. AFRO-FUTURISTIC CULTURAL BUILDING DESIGNS

- APPLIED ON 2025/12/09 -

A2025/01498 - UNILEVER IP HOLDINGS B.V. Class 32. SURFACE PATTERNS

A2025/01500 - HENDOR MINING SUPPLIES (PTY) LTD Class 12. CARRIER SLED FOR UNDERGROUND MINING

F2025/01501 - HENDOR MINING SUPPLIES (PTY) LTD Class 12. CARRIER SLED FOR UNDERGROUND MINING

A2025/01499 - HONDA MOTOR CO., LTD. Class 12. MOTORCYCLE

A2025/01497 - HONDA MOTOR CO., LTD. Class 12. MOTORCYCLE

F2025/01493 - VAN DER BANK, Christo Class 09. CUP CARRIER

A2025/01492 - VAN DER BANK, Christo Class 09. CUP CARRIER

A2025/01495 - PARFUMS CHRISTIAN DIOR Class 28. DEVICE FOR APPLYING COSMETICS

F2025/01496 - YORK, Natasha Class 25. SUPPORT STRUCTURE

A2025/01494 - CHUBBY GORILLA, INC. Class 09. CONTAINER

F2025/01491 - JJ Govender Class 25. EDGE SERVERS SHIPPING CONTAINERS AND PODS

- APPLIED ON 2025/12/10 -

A2025/01518 - QUATTRO ENGINEERING (PTY) LTD. Class 22. ARCHERY BOW STABILISER BAR

F2025/01503 - DYNAMIC GROUND STABILISATION AGENCY (PTY) LTD Class 25. MODULAR FRAME ASSEMBLY

A2025/01511 - PHILIP MORRIS PRODUCTS S.A. Class 32. LOGO, ORNAMENTATION, GRAPHIC SYMBOL, LABEL, GRAPHIC DESIGN OR SURFACE PATTERN, E.G. FOR PACKAGING, IN PARTICULAR FOR PACKAGING FOR TOBACCO RELATED PRODUCTS, SUCH AS TOBACCO HEATING CONSUMABLES

F2025/01513 - NKIDI, Thandi Joyce Class 23. TOILET SEAT ARRANGEMENT

F2025/01508 - KENNAMETAL S.A. (PTY) LTD Class 8. TOOLS FOR CUTTER HEADS

A2025/01510 - PHILIP MORRIS PRODUCTS S.A. Class 32. LOGO, ORNAMENTATION, GRAPHIC SYMBOL, LABEL, GRAPHIC DESIGN OR SURFACE PATTERN, E.G. FOR PACKAGING, IN PARTICULAR FOR PACKAGING FOR TOBACCO RELATED PRODUCTS, SUCH AS TOBACCO HEATING CONSUMABLES

A2025/01517 - QUATTRO ENGINEERING (PTY) LTD. Class 22. ARCHERY BOW STABILISER BAR

F2025/01502 - DYNAMIC GROUND STABILISATION AGENCY (PTY) LTD Class 25. MODULAR FRAME ASSEMBLY

F2025/01506 - DYNAMIC GROUND STABILISATION AGENCY (PTY) LTD Class 25. MODULAR FRAME ASSEMBLY

A2025/01516 - QUATTRO ENGINEERING (PTY) LTD. Class 22. ARCHERY BOW STABILISER BAR

F2025/01504 - DYNAMIC GROUND STABILISATION AGENCY (PTY) LTD Class 25. MODULAR FRAME ASSEMBLY

F2025/01509 - VAN DER LEEK, Robert Benjamin Class 25. LOUVRE PANEL

A2025/01514 - QUATTRO ENGINEERING (PTY) LTD. Class 22. ARCHERY BOW STABILISER BAR

A2025/01515 - QUATTRO ENGINEERING (PTY) LTD. Class 22. ARCHERY BOW STABILISER BAR

A2025/01512 - NKIDI, Thandi Joyce Class 23. TOILET SEAT ARRANGEMENT

F2025/01505 - DYNAMIC GROUND STABILISATION AGENCY (PTY) LTD Class 25. MODULAR FRAME ASSEMBLY

F2025/01507 - KENNAMETAL S.A. (PTY) LTD Class 8. TOOLS FOR CUTTER HEADS

- APPLIED ON 2025/12/11 -

A2025/01519 - NELSIE NDIMANDE Class 03. A WOVEN BAG

F2025/01520 - MPACT LIMITED Class 9. ARRAY OF STACKS OF SETS OF CONTAINERS

F2025/01521 - MPACT LIMITED Class 9. ARRAY OF STACKS OF SETS OF CONTAINERS

A2025/01522 - Neo Class 23. NEO SMART VALVE GEYSER

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

No records available

VOLUNTARY SURRENDER OF A DESIGN IN TERMS OF SECTION 34 REGULATION 42(4) OF THE DESIGN ACT

No records available

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

No records available

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page.

The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgment. **(23)** release date (if applicable). **(43)** Date of registration. **(52)** Class. **(24)** Type of design. **(71)** Name(s) of applicant(s). **(33)** Country. **(31)** Number and. **(32)** Date of convention application. **(54)** Articles to which design is to be applied. **(57)** Brief statement of features.

N.B.: Date of registration **(43)** is either Date of lodgment **(22)** or Date of convention of application **(32)** whichever is the earlier.

Registrar of Designs

21: A2020/01302 22: 2020-09-29 23:

43: 2020-04-30

52: Class 7 24: Part A

71: Jura Elektroapparate AG

33: HSIRID(US) 31: DM/208 137 32: 2020-04-30

54: COFFEE MAKERS

57: The design is for a coffee maker. The coffee maker has a generally cube-shaped body. Front and rear surfaces of the coffee maker curve outward. A display panel is provided on the front surface. The coffee maker has two dispensing arrangements. A first dispensing arrangement is located below the display panel and includes a pair of dispensing tubes. A second dispensing arrangement is offset to a right of the first dispensing arrangement and includes a single dispensing tube. A circular lug protrudes from the second dispensing arrangement.

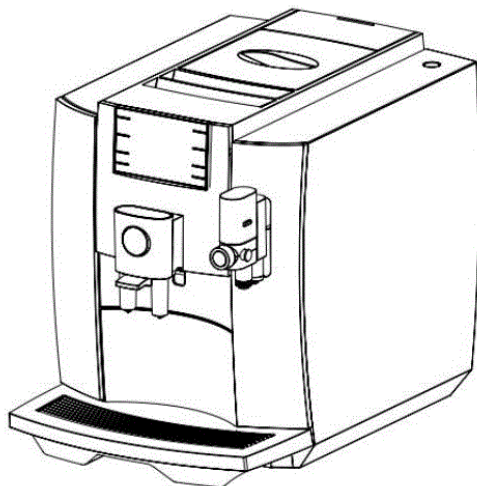


Figure 1

Three-dimensional view

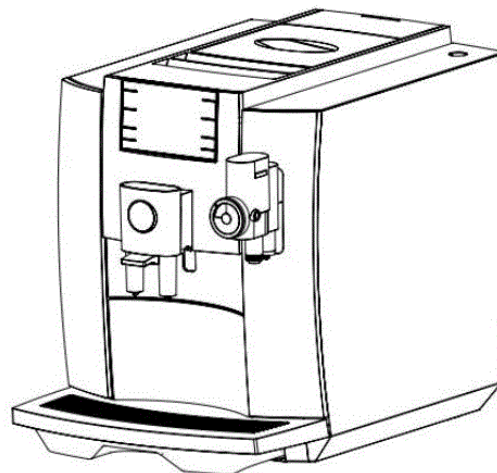


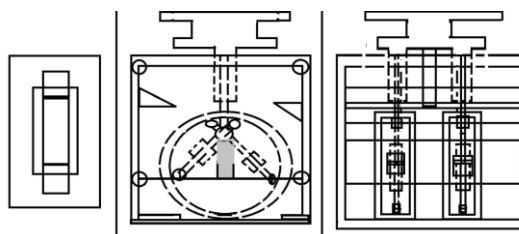
Figure 1

Three-dimensional view

21: A2020/01303 22: 2020-09-29 23:
43: 2020-04-30
52: Class 7 24: Part A
71: Jura Elektroapparate AG
33: HSIRID(US) 31: DM/208 137 32: 2020-04-30
54: COFFEE MAKERS

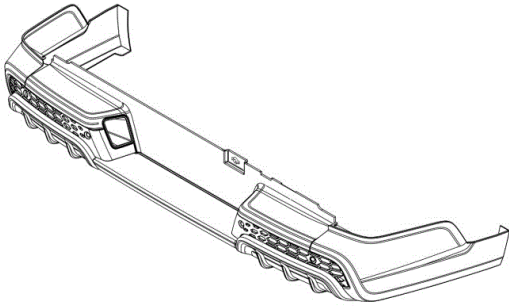
57: The design is for a coffee maker. The coffee maker has a generally cube-shaped body. Front and rear surfaces of the coffee maker curve outward. A display panel is provided on the front surface. The coffee maker has two dispensing arrangements. A first dispensing arrangement is located below the display panel and includes a pair of dispensing tubes. A second dispensing arrangement is offset to a right of the first dispensing arrangement and includes a single dispensing tube. A circular lug protrudes from the second dispensing arrangement.

21: A2024/00534 22: 2024-06-07 23:
43: 2025-11-12
52: Class 15 24: Part A
71: Nathi Sengca
54: SENGCA ENGINE
57: Machine and orbit



21: A2024/00800 22: 2024-08-12 23:
43: 2025-11-12
52: Class 12 24: Part A
71: EDWARD DAVIES COMMERCIALS LIMITED
33: GB 31: 6346526 32: 2024-02-13
54: REAR BUMPER FOR A VEHICLE

57: The design is to be applied to a rear bumper for a vehicle. The features for which protection is claimed are those of shape and/or configuration and/or pattern and/or ornamentation, substantially as shown in the representations. The broken lines are for illustrative purposes only and form no part of the claimed design.



PERSPECTIVE VIEW

21: A2024/01075 22: 2024-10-16 23:
43: 2025-10-21

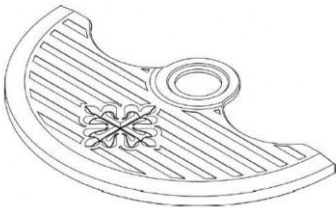
52: Class 10 24: Part A

71: PATEK PHILIPPE SA GENEVE

33: CH 31: 2024-00456 32: 2024-09-12

54: MOVEMENT FOR CLOCKS AND WATCHES

57: The design is applied to a movement for clocks and watches shown in perspective view in the drawing showing the overall appearance thereof.



21: A2025/00118 22: 2025-01-30 23:
43: 2025-10-09

52: Class 23. 24: Part A

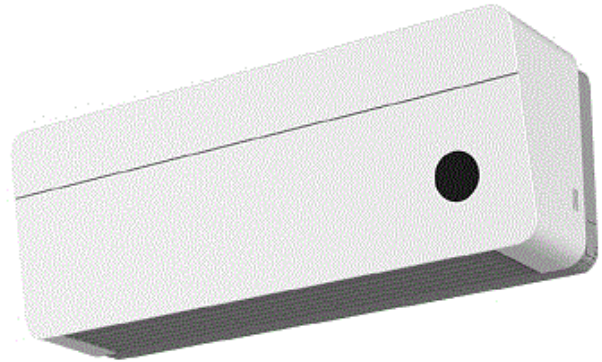
71: XIAOMI TECHNOLOGY (WUHAN) CO., LTD.,
XIAOMI SMART APPLIANCES (WUHAN) CO.,
LTD., BEIJING XIAOMI MOBILE SOFTWARE CO.,
LTD.

33: CN 31: 2024304836021 32: 2024-07-31

33: CN 31: 2024308439806 32: 2024-12-31

54: Hanging Unit of an Air Conditioner

57: The design relates to a hanging unit of an air conditioner. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

Front, bottom and right side perspective
view

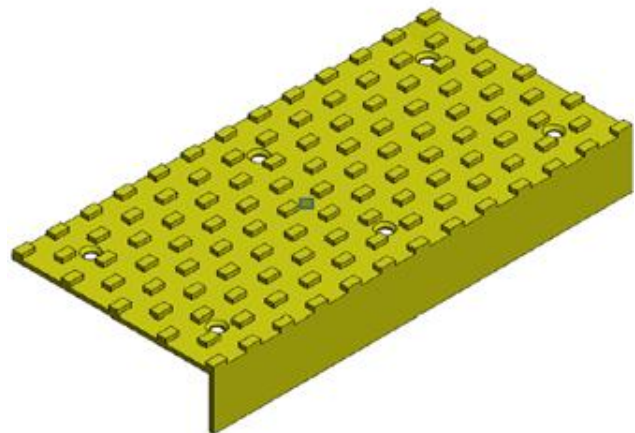
21: A2025/00185 22: 2025-02-20 23:
43: 2025-09-09

52: Class 25 24: Part A

71: JACOBUS JONATHAN JACOB, SWARTS

54: ANTI-SLIP DEVICE FOR STAIRS

57: The features of the design for which protection is claimed reside in the shape and/or pattern and/or configuration and/or ornamentation of an anti-slip device for stairs substantially as shown in the accompanying representations.



21: A2025/00195 22: 2025-02-21 23:
43: 2024-08-30

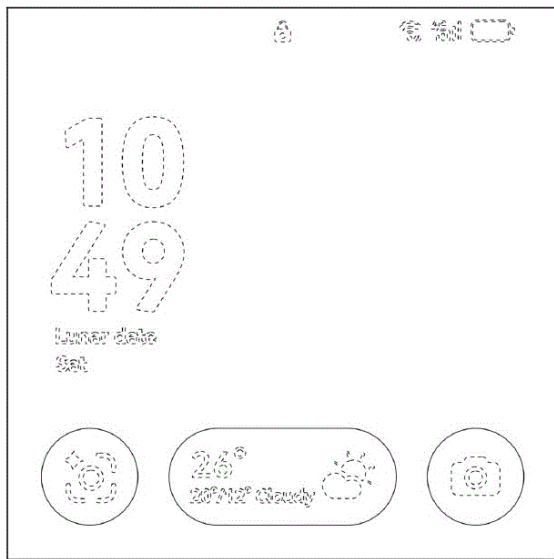
52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430553533.7 32: 2024-08-30

54: SCREEN DISPLAYS AND ICONS

57: The features of the design for which novelty is claimed are the shape and pattern of screen displays and icons, substantially as shown in the representations. Features shown in broken lines do not form part of the design and are disclaimed.



Single Figure

Face-on view

21: A2025/00196 22: 2025-02-21 23:

43: 2024-08-30

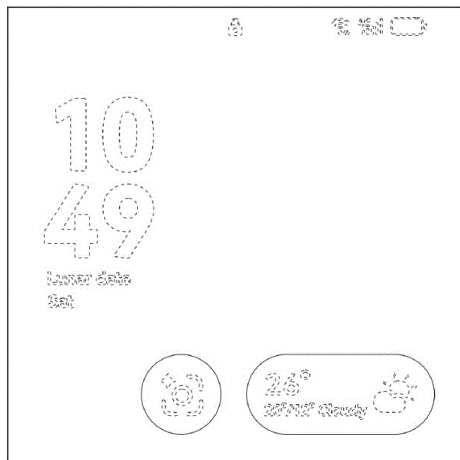
52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430553533.7 32: 2024-08-30

54: SCREEN DISPLAYS AND ICONS

57: The features of the design for which novelty is claimed are the shape and pattern of screen displays and icons, substantially as shown in the representations. Features shown in broken lines do not form part of the design and are disclaimed.



Single Figure

Face-on view

21: A2025/00197 22: 2025-02-21 23:

43: 2024-08-30

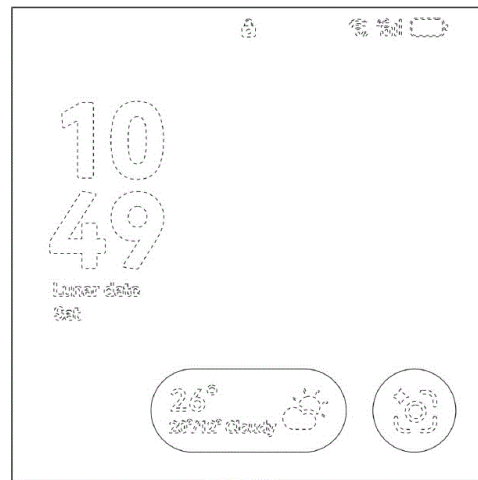
52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430553533.7 32: 2024-08-30

54: SCREEN DISPLAYS AND ICONS

57: The features of the design for which novelty is claimed are the shape and pattern of screen displays and icons, substantially as shown in the representations. Features shown in broken lines do not form part of the design and are disclaimed.



Single Figure

Face-on view

21: A2025/00199 22: 2025-02-21 23:

43: 2024-08-30

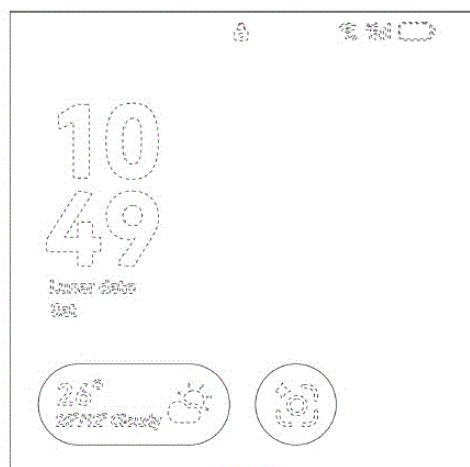
52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430553533.7 32: 2024-08-30

54: SCREEN DISPLAYS AND ICONS

57: The features of the design for which novelty is claimed are the shape and pattern of screen displays and icons, substantially as shown in the representations. Features shown in broken lines do not form part of the design and are disclaimed.



Single Figure

Face-on view

21: A2025/00200 22: 2025-02-21 23:

43: 2024-08-30

52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430553533.7 32: 2024-08-30

54: SCREEN DISPLAYS AND ICONS

57: The features of the design for which novelty is claimed are the shape and pattern of screen displays and icons, substantially as shown in the representations. Features shown in broken lines do not form part of the design and are disclaimed.

21: A2025/00201 22: 2025-02-21 23:

43: 2024-08-30

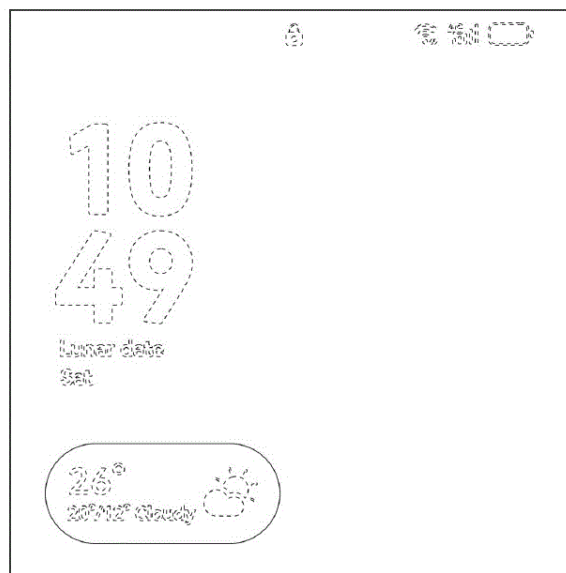
52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430553533.7 32: 2024-08-30

54: SCREEN DISPLAYS AND ICONS

57: The features of the design for which novelty is claimed are the shape and pattern of screen displays and icons, substantially as shown in the representations. Features shown in broken lines do not form part of the design and are disclaimed.



Single Figure

Face-on view

21: A2025/00202 22: 2025-02-21 23:

43: 2024-08-30

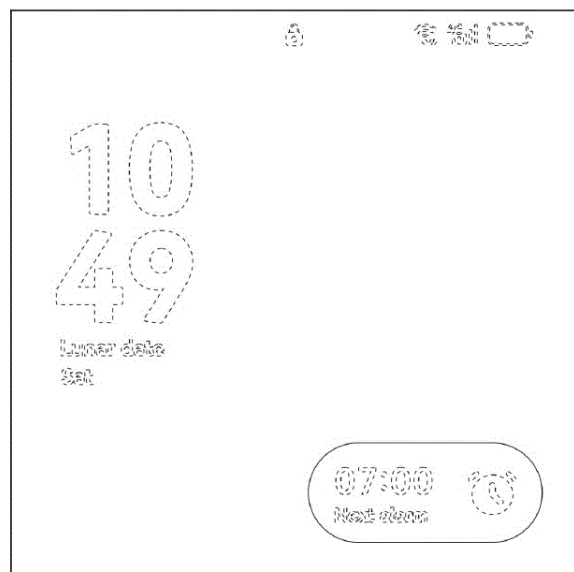
52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430553533.7 32: 2024-08-30

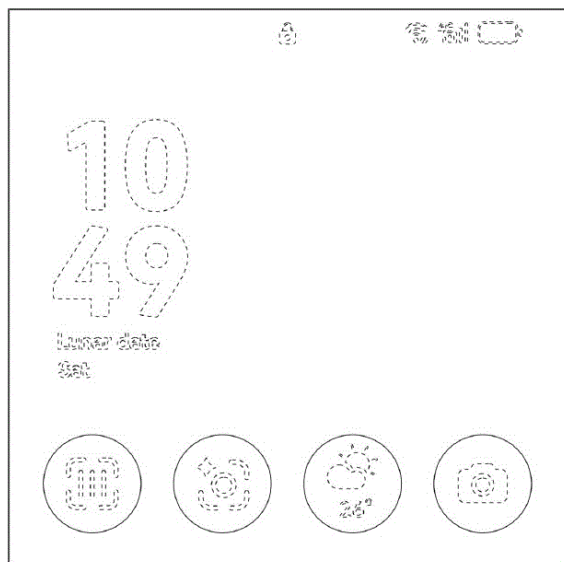
54: SCREEN DISPLAYS AND ICONS

57: The features of the design for which novelty is claimed are the shape and pattern of screen displays and icons, substantially as shown in the representations. Features shown in broken lines do not form part of the design and are disclaimed.



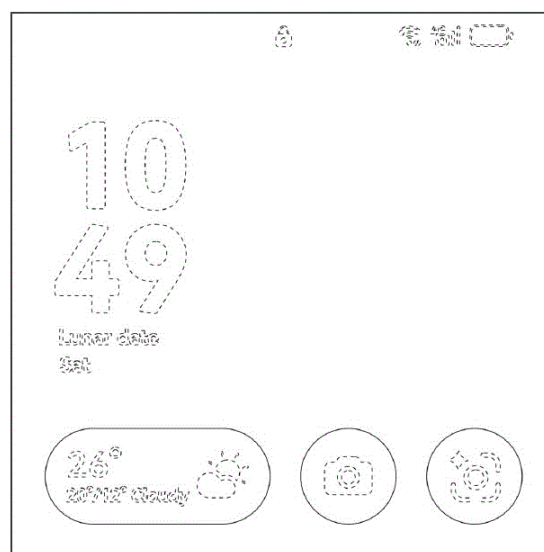
Single Figure

Face-on view



Single Figure

Face-on view



Single Figure

Face-on view

21: A2025/00203 22: 2025-02-21 23:

43: 2024-08-30

52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430553533.7 32: 2024-08-30

54: SCREEN DISPLAYS AND ICONS

57: The features of the design for which novelty is claimed are the shape and pattern of screen displays and icons, substantially as shown in the representations. Features shown in broken lines do not form part of the design and are disclaimed.

21: A2025/00214 22: 2025-02-24 23:

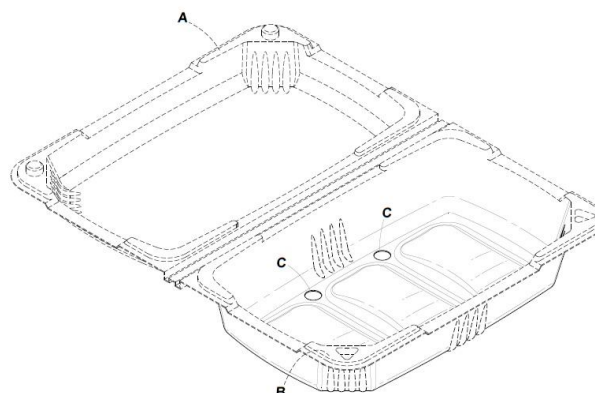
43: 2025-09-09

52: Class 09 24: Part A

71: Zibo Containers (Pty) Limited

54: CONTAINER

57: The features of the design for which protection is claimed include the pattern and/or shape and/or ornamentation and/or configuration of the container substantially as illustrated in the accompanying representations. The lid A, the lid seat B around the upper rim of the container and the number and positions of the holes C are not claimed.



21: A2025/00258 22: 2025-03-03 23:

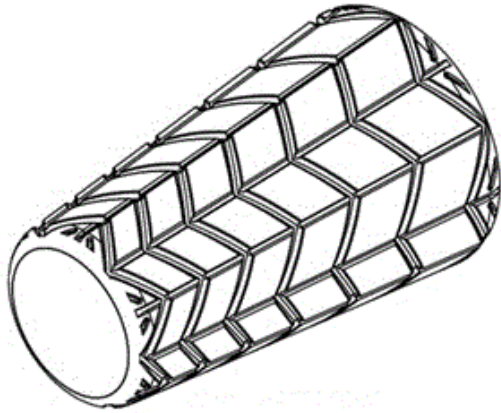
43: 2025-10-09

52: Class 12. 24: Part A

71: TRU-TRAC ROLLERS (PTY) LTD.

54: Set of Rollers

57: The design relates to a set of rollers. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



Perspective view wing roller

21: A2025/00262 22: 2025-03-04 23:

43: 2024-09-05

52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430567427.4 32: 2024-09-05

54: MOBILE PHONES

57: The design is for a mobile phone. A prominent camera bump is provided on an upper left part of a rear surface and is obround. The camera bump projects outwardly from the rear surface and has concentric steps and contours. The camera bump comprises four squarely-spaced circular lens elements and two small obround sensor elements, one above and one below.



Figure 2

Another three-dimensional view

21: A2025/00284 22: 2025-03-10 23:

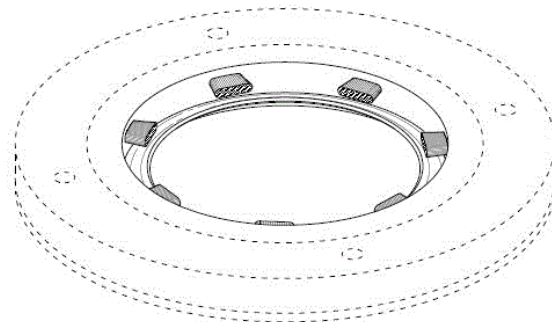
43: 2025-10-09

52: Class 13 24: Part A

71: TIMM, Troy Lance

54: GROUNDING DEVICE

57: The design relates to a grounding device for electric apparatuses. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2025/00286 22: 2025-03-10 23:

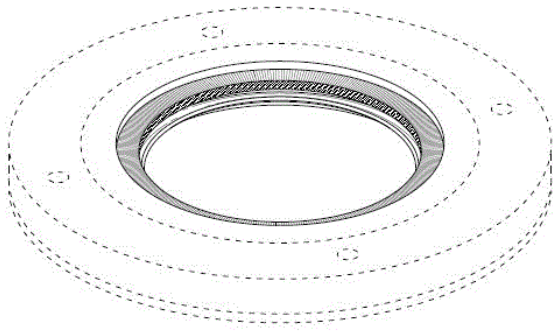
43: 2025-10-09

52: Class 13 24: Part A

71: TIMM, Troy Lance

54: GROUNDING DEVICE

57: The design relates to a grounding device for electric apparatuses. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

FRONT PERSPECTIVE VIEW

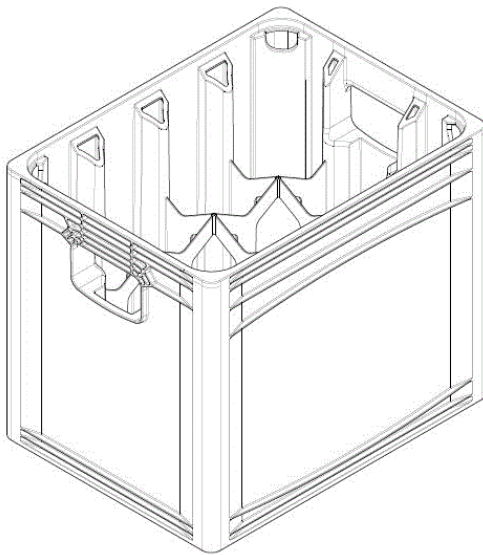
21: A2025/00289 22: 2025-03-11 23:
43: 2025-10-09

52: Class 9 24: Part A

71: MCG INDUSTRIES (PTY) LTD

54: BOTTLE CRATE

57: The design relates to a bottle crate. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

TOP PERSPECTIVE VIEW

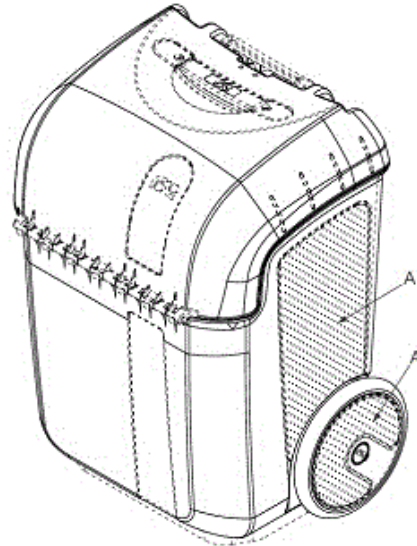
21: A2025/00295 22: 2025-03-12 23:
43: 2025-10-09

52: Class 3. 24: Part A

71: ROLO BAGS (PTY) LTD.

54: Case

57: The design relates to a case. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



Perspective view

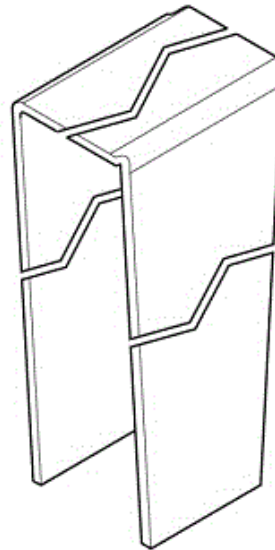
21: A2025/00301 22: 2025-03-14 23:
43: 2025-10-09

52: Class 9. 24: Part A

71: MPACT LIMITED

54: Box Connector

57: The design relates to a box connector. The features of the design are those of shape and/or configuration and/or pattern.



Perspective view

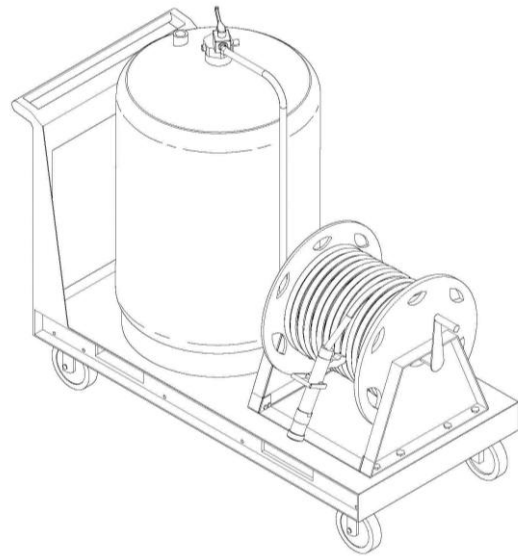
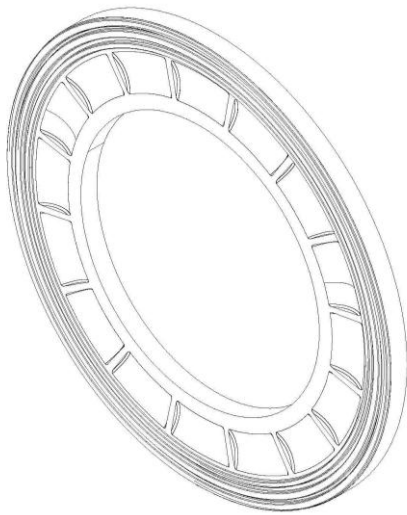
21: A2025/00305 22: 2025-03-17 23:
43: 2025-03-17

52: Class 12 24: Part A

71: Terra Trak Technologies International
(Proprietary) Limited

54: A Disc Element for an Insert for a Run Flat Tyre

57: The design is for a disc element for an insert for a run flat tyre. The disc element has an annular body with a plurality of depressions on both sides. At a radially outer end, spanning about 1/3 a width of the body, a plurality of radially-spaced circumferentially-extending grooves are provided which are oppositely configured. At a radially inner end, spanning about 2/3 a width of the body, a plurality of circumferentially-spaced arcuate rectangular recesses are provided.



21: A2025/00307 22: 2025-03-17 23:

43: 2025-02-17

52: Class 29 24: Part A

71: RITESTAND (PTY) LTD.

54: A Mobile Fire Extinguisher Station

57: The design is for a mobile fire extinguisher station. The station includes a trolley with a low, flat, rectangular load bed and four castor wheels at each corner. A handle arrangement projects upwardly from a rear end of the load bed. A prominent, upright, cylindrical cannister is provided on a rear half of the load bed, and a reel assembly comprising a hose and a reel is provided at a front half of the load bed. A fluid conduit interconnects an outlet of the cannister at its apex to an inlet of the reel assembly. The hose may be wound around the reel and the reel assembly has a crank for manual winding and unwinding.

21: A2025/00309 22: 2025-03-20 23:

43: 2024-09-24

52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430606272.0 32: 2024-09-24

54: DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

57: The design is for a display screen with a user interface (UI). The UI comprises a main window which is rectangular with rounded corners. It overlaps sharply tilted adjacent windows on either side. The main window transitions to one side and narrows while one of the adjacent windows untilts to extend between an edge of the screen on the other side and the main window.

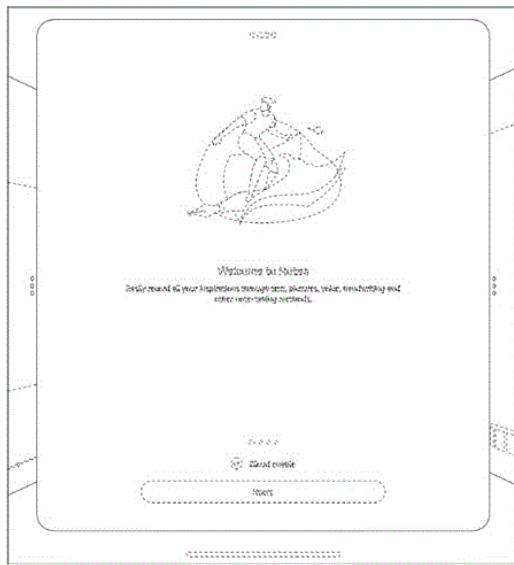


Figure 1
First face-on view

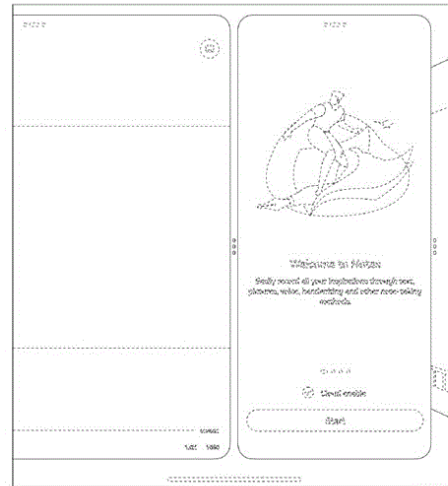


Figure 1
First face-on view

21: A2025/00310 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606272.0 32: 2024-09-24

54: DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

57: The design is for a display screen with a user interface (UI). The UI comprises a plurality of windows. A first window extends between an edge of the screen on one half to about a middle. A second window is provided on the other half but stops short of the other edge. A third, sharply tilted window is provided between the second window and the edge. In a transition, the first window disappears, the second window moves to the other half where the first window was, and the third window untilts and moves to the half where the second window was.

21: A2025/00311 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606272.0 32: 2024-09-24

54: DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

57: The design is for a display screen with a user interface (UI). The UI comprises a plurality of windows. First and second windows are provided on respective halves. A third, sharply tilted window is provided between the first window and an adjacent edge of the screen. After transition, the windows are presented in three groups or clusters of stacked windows, each group with icons above, representative of the windows in the group.

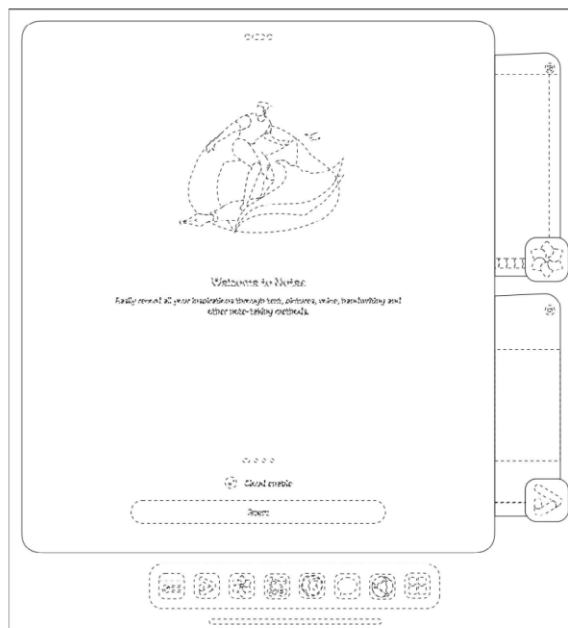
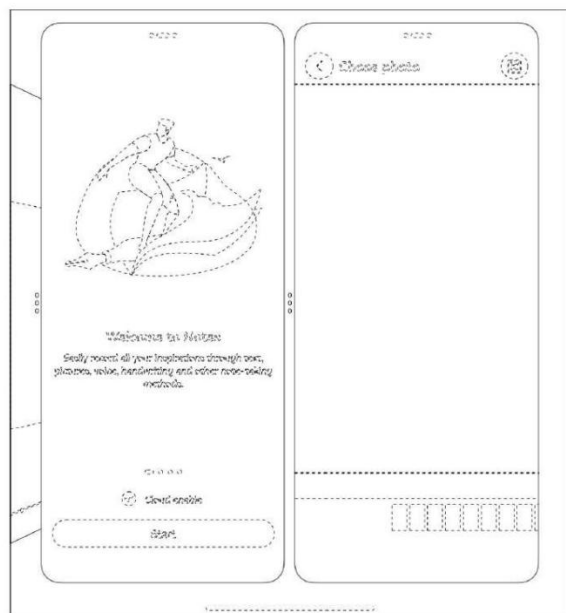


Figure 1

First face-on view

21: A2025/00312 22: 2025-03-20 23:

43: 2024-09-24

52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430606272.0 32: 2024-09-24

54: DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

57: The design is for a display screen with a user interface (UI). The UI comprises a plurality of windows. A main window is rectangular with rounded corners and covers most of the screen, with a larger gap on one side. Two minor windows, one above the other, are visible in the gap and overlapped by the main window. Each minor window has an icon associated with it.

21: A2025/00313 22: 2025-03-20 23:

43: 2024-09-24

52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430606272.0 32: 2024-09-24

54: DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

57: The design is for a display screen with a user interface (UI). The UI comprises a plurality of windows. A main window is rectangular with rounded corners and covers most of the screen, with a larger gap on one side. Two minor windows, one above the other, are visible in the gap and overlapped by the main window. Each minor window has an icon associated with it. After transition, the windows are presented in a fanned group with their icons above.

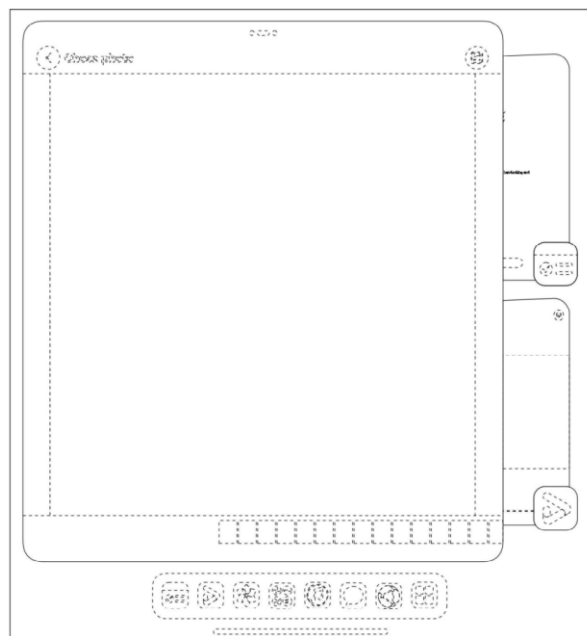
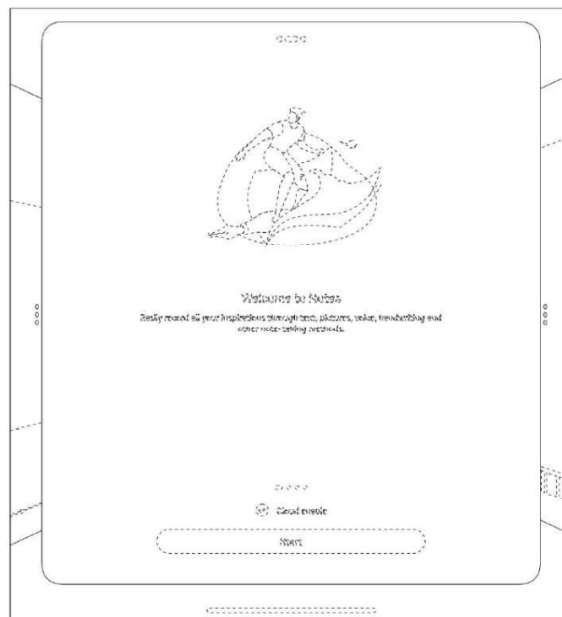


Figure 1
First face-on view



Single Figure
Face-on view

21: A2025/00314 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606272.0 32: 2024-09-24

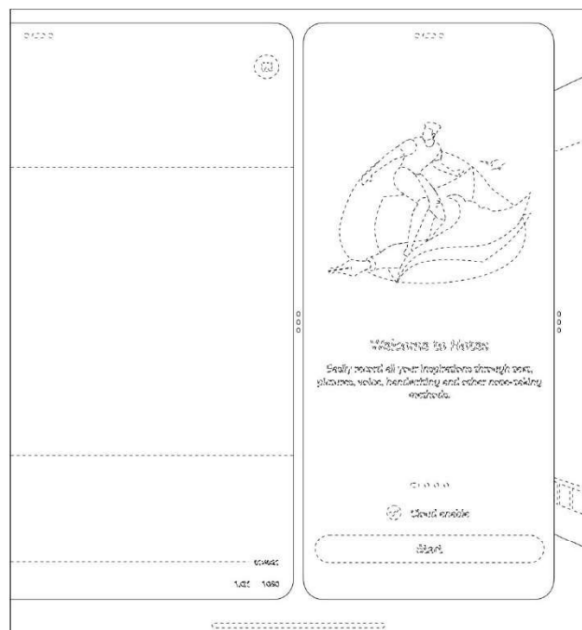
**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen with a user interface (UI). The UI comprises a main window which is rectangular with rounded corners. It overlaps sharply tilted adjacent windows on either side.

21: A2025/00315 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606272.0 32: 2024-09-24

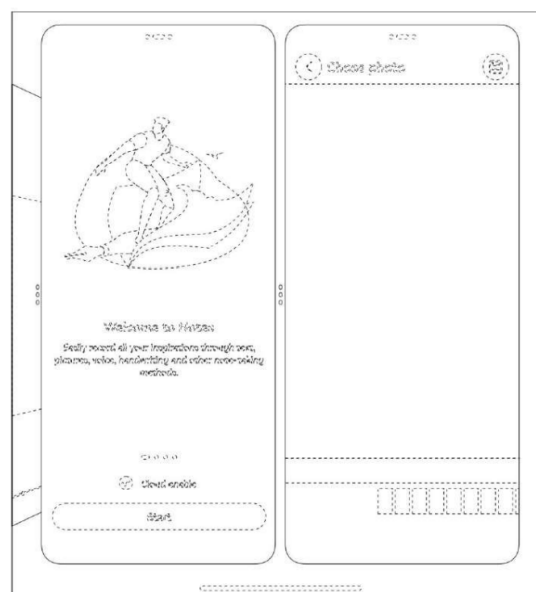
**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen with a user interface (UI). The UI comprises a plurality of windows. A first window extends between an edge of the screen on one half to about a middle. A second window is provided on the other half but stops short of the other edge. A third, sharply tilted window is provided between the second window and the edge.



Single Figure

Face-on view



Single Figure

Face-on view

21: A2025/00316 22: 2025-03-20 23:

43: 2025-10-10

52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430606272.0 32: 2024-09-24

54: DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

57: The design is for a display screen with a user interface (UI). The UI comprises a plurality of windows. First and second windows are provided on respective halves. A third, sharply tilted window is provided between the first window and adjacent edge of the screen.

21: A2025/00317 22: 2025-03-20 23:

43: 2024-09-24

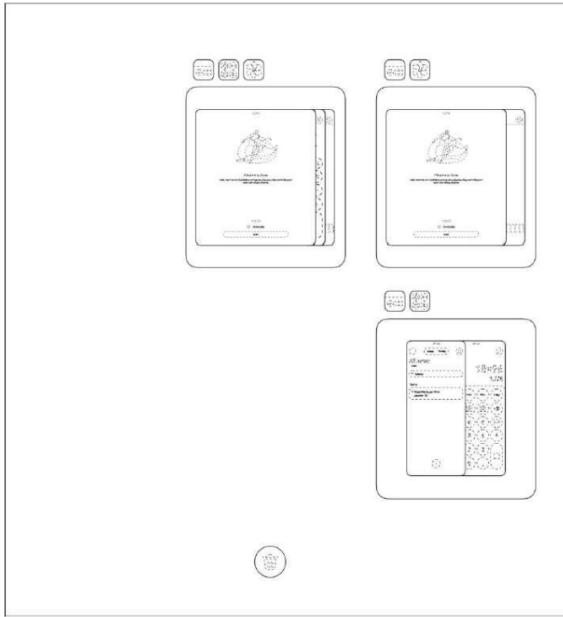
52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

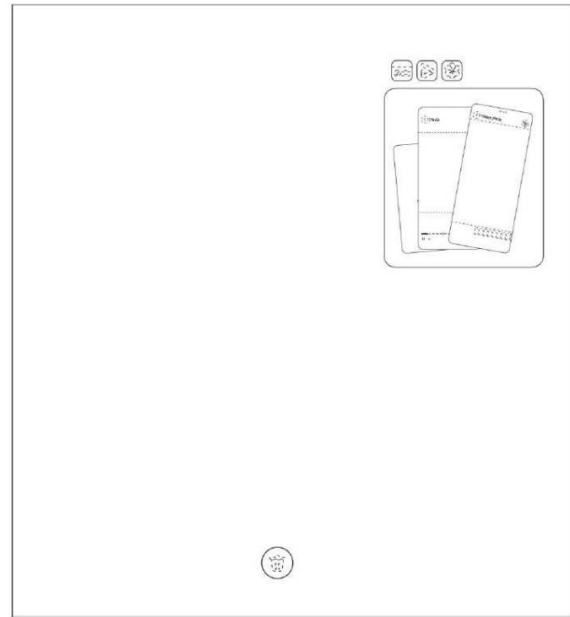
33: CN 31: 202430606272.0 32: 2024-09-24

54: DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

57: The design is for a display screen with a user interface (UI). The UI comprises a plurality of windows presented in three groups or clusters of stacked windows, each group with icons above, representative of the windows in the group.



Single Figure
Face-on view



Single Figure
Face-on view

21: A2025/00318 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606272.0 32: 2024-09-24

**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen with a user interface (UI). The UI comprises a plurality of windows which are presented in a fanned group with their associated icons above.

21: A2025/00319 22: 2025-03-20 23:
43: 2025-10-10
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606305.1 32: 2024-09-24

**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen or a portion of thereof with a graphical user interface. In the first view, the design features are large off-centre, upright, rectangular window with rounded corners. A pair of tilted windows is overlaid each side of the rectangular window, with one tilted window being more visible than the other. The rectangular window enlarges and transitions to a centre of the screen. Finally, the rectangular window narrows and moves to one half of the screen, while of the tilted windows untilts to become rectangular and occupies the other half of the screen.

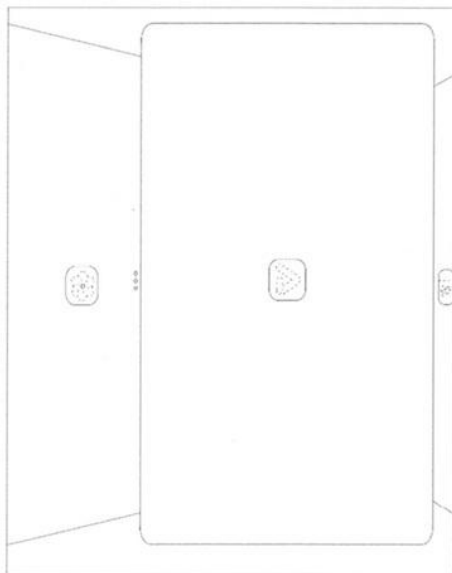


Figure 1
First face-on view

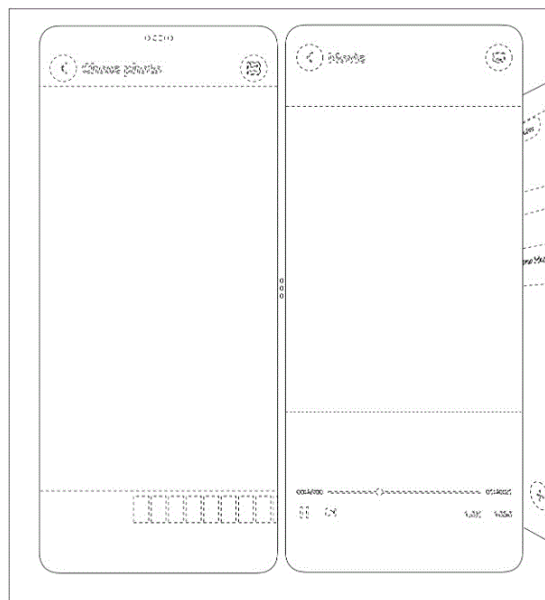


Figure 1
First face-on view

21: A2025/00320 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606305.1 32: 2024-09-24

**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen or a portion thereof with a graphical user interface. In the first view, the design features a pair of upright, rectangular windows with rounded corners, the windows on respective halves of the screen, with a tilted window overlaid on one side. In transition, one rectangular window widens to push the other partially off a side of the screen, before widening further to occupy almost all of the screen, while the other formerly rectangular window tilts and is overlaid by the widened window.

21: A2025/00321 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606305.1 32: 2024-09-24

**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen or a portion thereof with a graphical user interface. In the first view, the design features left and right upright, rectangular windows with rounded corners, the windows on respective halves of the screen, with a tilted window overlaid on the left. In transition, the right rectangular window moves further right and tilts, the left rectangular window moves right, and the left tilted window widens and untilts. Finally, the formerly right rectangular window moves off screen, the formerly left rectangular window is tilted and overlaid on the right, and the formerly tilted window is centred and occupies most of the screen.

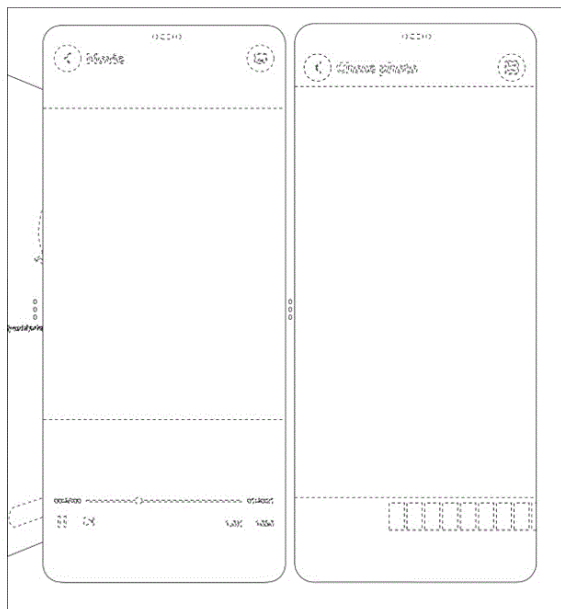


Figure 1
First face-on view

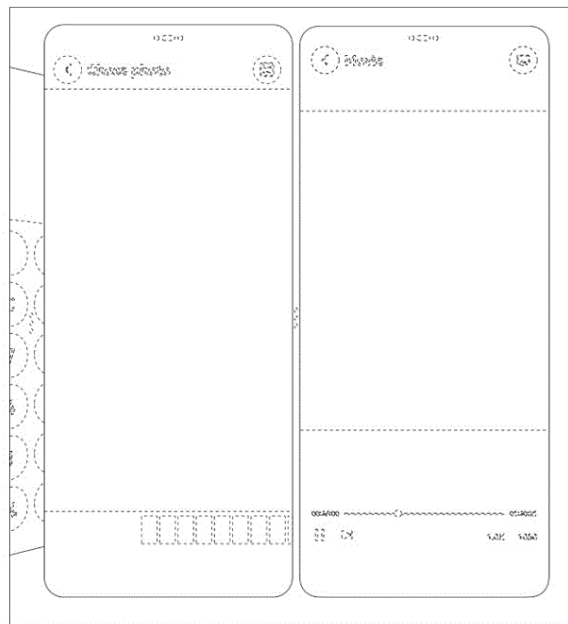


Figure 1
First face-on view

21: A2025/00322 22: 2025-03-20 23:

43: 2024-09-24

52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430606305.1 32: 2024-09-24

54: DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

57: The design is for a display screen or a portion thereof with a graphical user interface. In the first view, the design features left and right upright, rectangular windows with rounded corners, the windows on respective halves of the screen, with a tilted window overlaid on the left. In transition, the left window appears to move rearwards by becoming smaller and moving slightly closer to the right window.

21: A2025/00323 22: 2025-03-20 23:

43: 2024-09-24

52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430606305.1 32: 2024-09-24

54: DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

57: The design is for a display screen or a portion thereof with a graphical user interface. In the first view, the design features left and right upright, rectangular windows with rounded corners, the windows on respective halves of the screen, with a tilted window overlaid on the left. The left window is a little smaller than the right window. In transition, the right window moves left and overlays the left window, before the left window moves right behind the former right window, and the tilted window begins to enlarge and untilt.

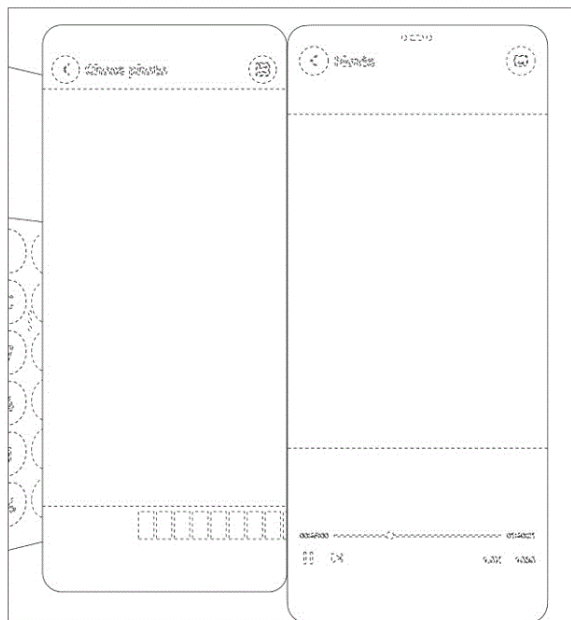


Figure 1
First face-on view

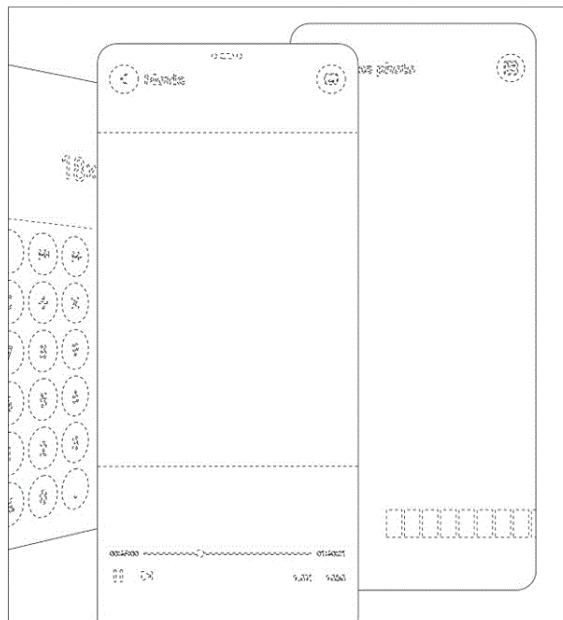


Figure 1
First face-on view

21: A2025/00324 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606305.1 32: 2024-09-24

**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen or a portion thereof with a graphical user interface. In the first view, the design features three windows: left and right upright, rectangular windows with rounded corners, the left window overlaying the right window partially, and a tilted window overlaid on the left. In transition, the left window moves further left and the tilted window untilts and moves right behind the left window. Then, the right window tilts and is overlaid by the formerly tilted window on the right, while the left window moves back to the left half of the screen.

21: A2025/00325 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606305.1 32: 2024-09-24

**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen or a portion thereof with a graphical user interface. The design features a large off-centre, upright, rectangular window with rounded corners. A pair of tilted windows is overlaid each side of the rectangular window, with one tilted window being more visible than the other.

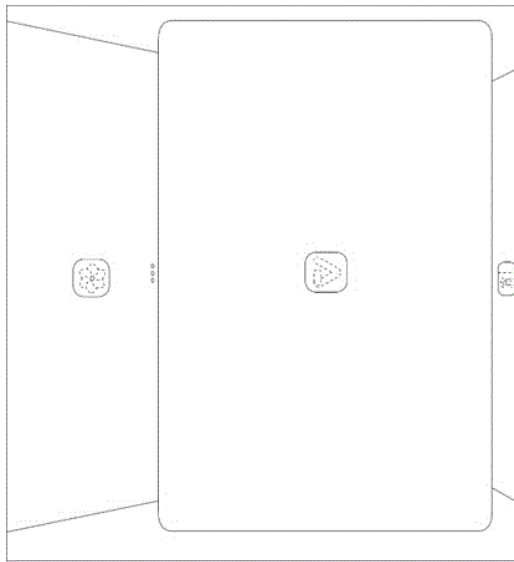


Figure 1
Face-on view

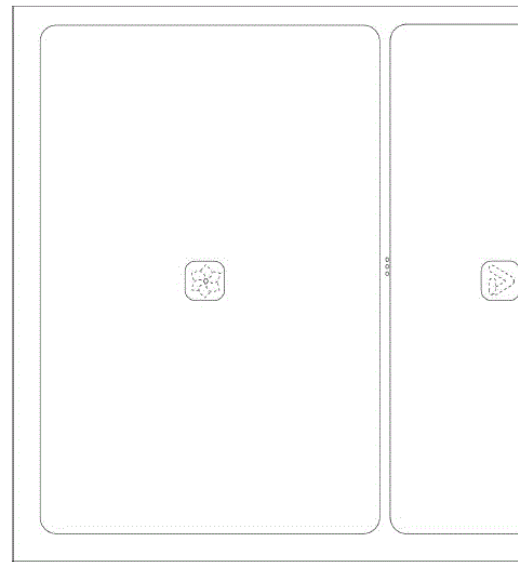


Figure 1
Face-on view

21: A2025/00326 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606305.1 32: 2024-09-24

**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen or a portion thereof with a graphical user interface. The design features a large off-centre, upright, rectangular first window with rounded corners. A second window is adjacent the first window, the second window extending off screen.

21: A2025/00327 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606305.1 32: 2024-09-24

**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen or a portion thereof with a graphical user interface. The design features a large off-centre, upright, rectangular window with rounded corners. A pair of tilted windows is provided either each side of the rectangular window, with one tilted window being more visible and larger than the other.

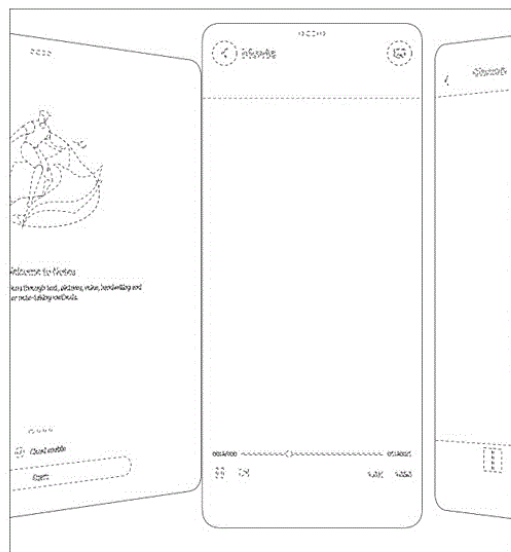


Figure 1
Face-on view

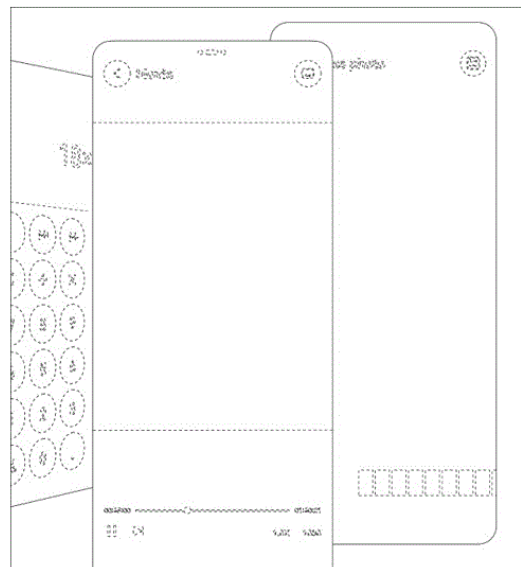


Figure 1
Face-on view

21: A2025/00328 22: 2025-03-20 23:
43: 2024-09-24
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606305.1 32: 2024-09-24

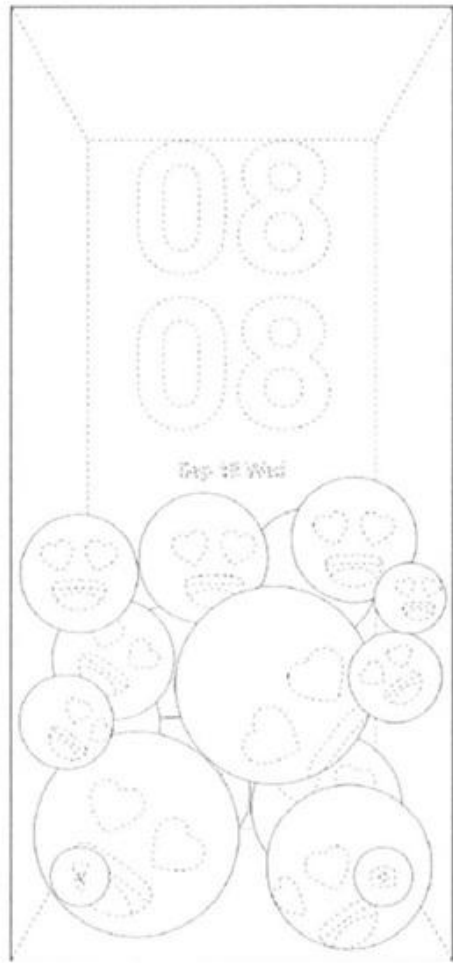
**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen or a portion thereof with a graphical user interface. The design features left and right upright, rectangular windows with rounded corners, the windows on respective halves of the screen, with a tilted window overlaid on the left. The left window is a little larger than the right window and partially overlays the right window.

21: A2025/00329 22: 2025-03-20 23:
43: 2025-10-10
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606206.3 32: 2024-09-24

**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen or a portion thereof with a graphical user interface (UI). The UI features several circular elements in a bottom half of the screen, some overlaying others in a seemingly scattered arrangement. Two circular icons are provided at bottom corners of the screen.



Single Figure

Face-on view



Single Figure

Face-on view

21: A2025/00330 22: 2025-03-20 23:

43: 2024-09-24

52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

33: CN 31: 202430606206.3 32: 2024-09-24

54: DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

57: The design is for a display screen or a portion thereof with a graphical user interface (UI). The UI features several circular elements in a top half of the screen, some overlaying others in a seemingly scattered arrangement. Two circular icons are provided at bottom corners of the screen.

21: A2025/00331 22: 2025-03-20 23:

43: 2025-10-10

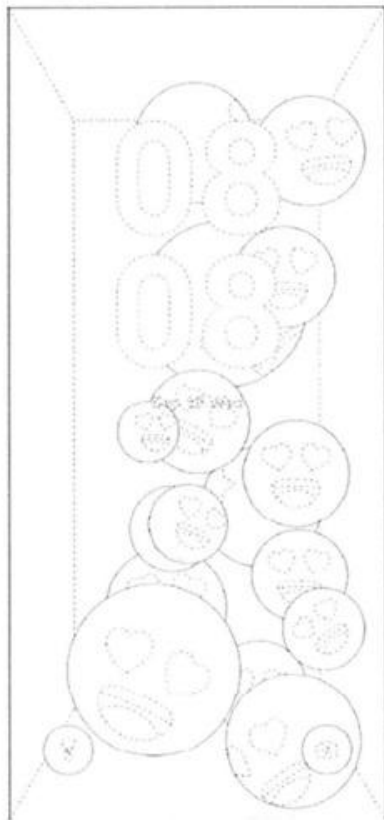
52: Class 14 24: Part A

71: Huawei Technologies Co., Ltd.

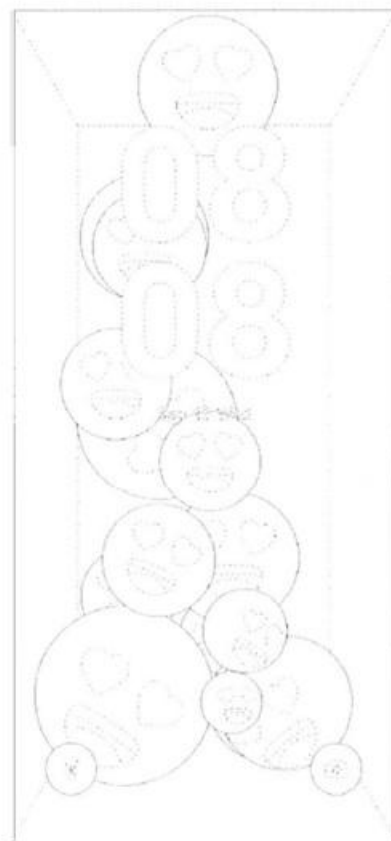
33: CN 31: 202430606206.3 32: 2024-09-24

54: DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES

57: The design is for a display screen or a portion thereof with a graphical user interface (UI). The UI features several circular elements in a majority of the screen, some overlaying others in a seemingly scattered arrangement. Two circular icons are provided at bottom corners of the screen.



Single Figure
Face-on view



Single Figure
Face-on view

21: A2025/00332 22: 2025-03-20 23:
43: 2025-10-10
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202430606206.3 32: 2024-09-24

**54: DISPLAY SCREENS OR PORTIONS
THEREOF WITH USER INTERFACES**

57: The design is for a display screen or a portion thereof with a graphical user interface (UI). The UI features several circular elements in a majority of the screen, some overlaying others in a seemingly scattered arrangement. Two circular icons are provided at bottom corners of the screen.

21: A2025/00335 22: 2025-03-24 23:
43: 2025-10-09
52: Class 15. 24: Part A
71: HONDA MOTOR CO., LTD.
33: JP 31: 2024-019704 32: 2024-09-25

54: Power Unit for an Electric Lawn Mower

57: The design relates to power unit for an electric lawn mower. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



Top, front and right side perspective view

21: A2025/00336 22: 2025-03-25 23:
43: 2024-09-26
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/965,261 32: 2024-09-26

54: FLANGES

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a flange which may be used for a hydraulic pump for a tractor or other construction machinery.

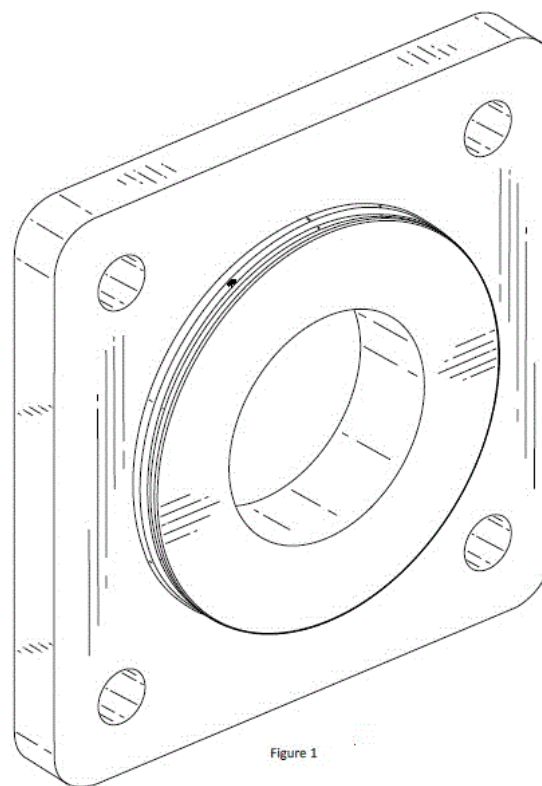


Figure 1
Three-dimensional view

21: A2025/00337 22: 2025-03-25 23:
43: 2025-10-10
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/965,251 32: 2024-09-26

54: FLANGES

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a flange which may be used for a hydraulic pump or motor for construction machinery.

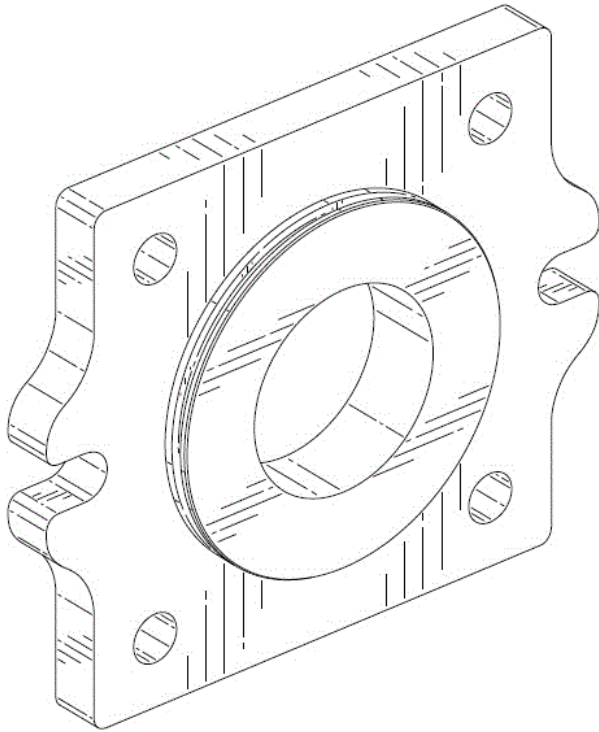


Figure 1
First three-dimensional view

21: A2025/00338 22: 2025-03-25 23:
43: 1900-01-01
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/965,118 32: 2024-09-26

54: FLANGES

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a flange which may be used for a hydraulic pump or motor for construction machinery.

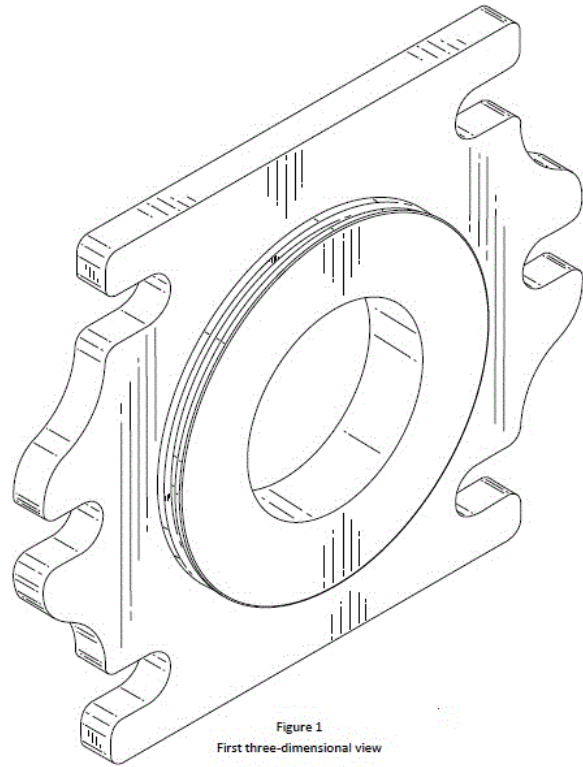


Figure 1
First three-dimensional view

21: A2025/00339 22: 2025-03-25 23:
43: 2024-09-26
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/965,251 32: 2024-09-26

54: FLANGES

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a flange which may be used for a hydraulic pump or motor for construction machinery.

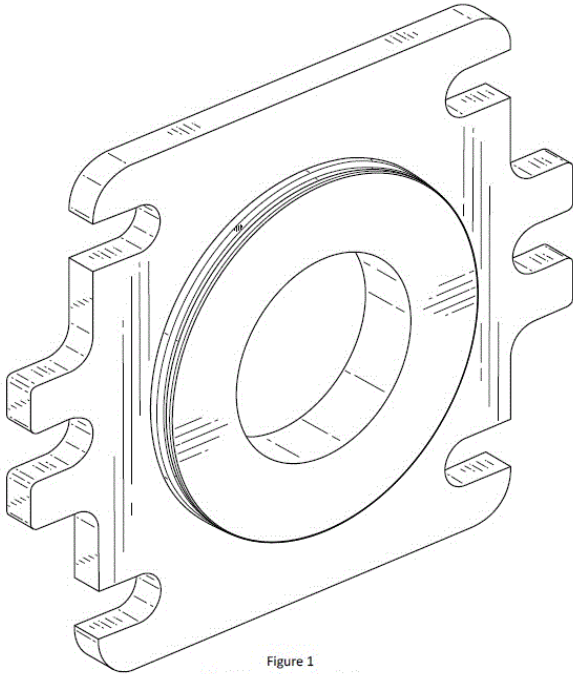


Figure 1
First three-dimensional view

21: A2025/00340 22: 2025-03-25 23:
43: 2024-09-26
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/965,130 32: 2024-09-26

54: FLANGES

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a flange which may be used for a hydraulic pump or motor for construction machinery.

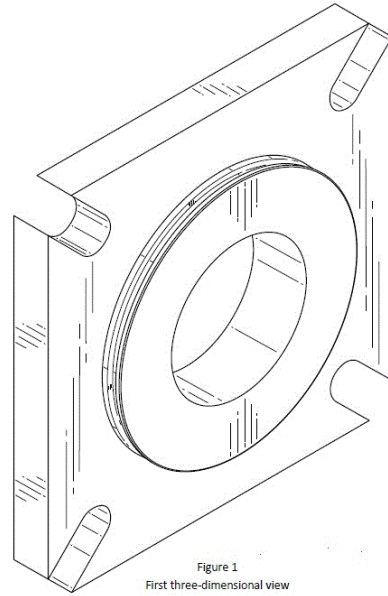


Figure 1
First three-dimensional view

21: A2025/00341 22: 2025-03-25 23:
43: 2024-09-26
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/965,140 32: 2024-09-26

54: PUMP MOUNTING FLANGES

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a pump mounting flange which may be used for a hydraulic pump or motor for construction machinery.

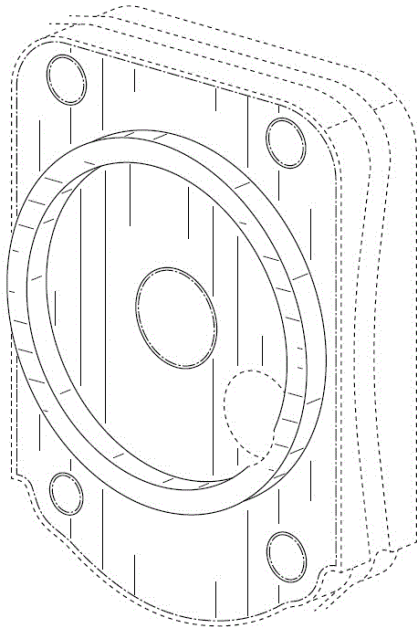


Figure 1
Three-dimensional view

21: A2025/00342 22: 2025-03-25 23:
43: 2024-09-26
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/965,130 32: 2024-09-26

54: FLANGES

57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a flange which may be used for a hydraulic pump or motor for construction machinery.

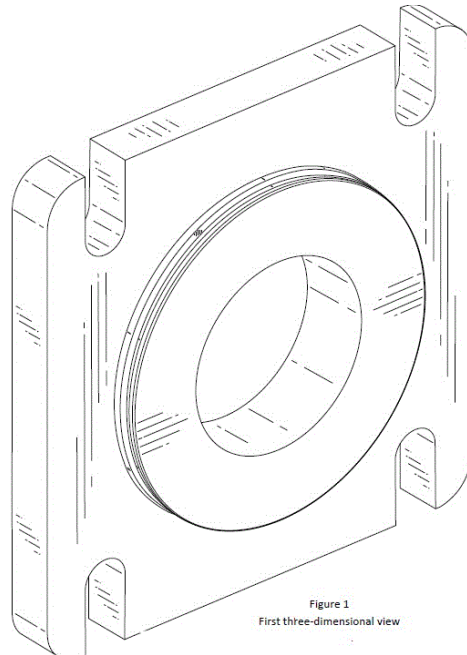
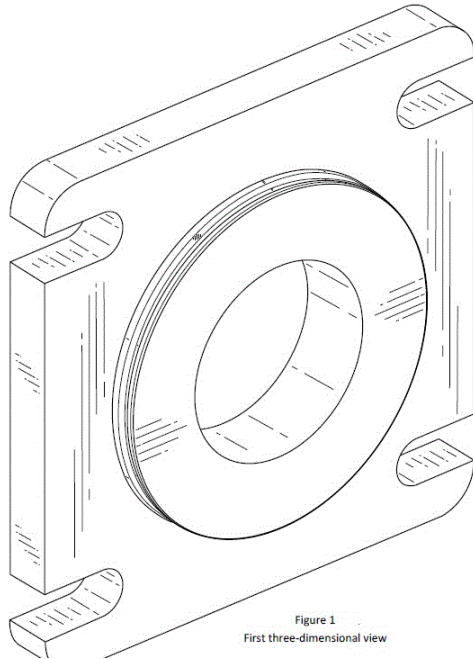


Figure 1
First three-dimensional view

21: A2025/00343 22: 2025-03-25 23:
43: 2024-09-26
52: Class 15 24: Part A
71: Caterpillar Inc.
33: US 31: 29/965,130 32: 2024-09-26

54: FLANGES

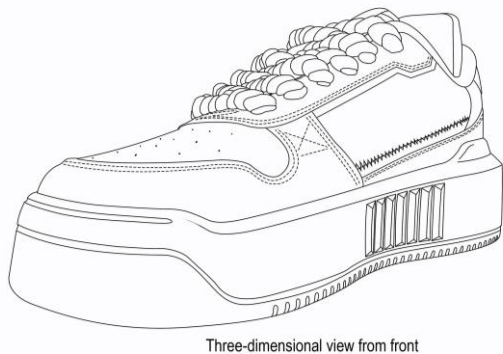
57: The features of the design are illustrated in the overall appearance of the design. It is this overall appearance that is particular to the claimed design. This design relates to a flange which may be used for a hydraulic pump or motor for construction machinery.



21: A2025/00349 22: 2025-03-28 23:
43: 2025-03-07
52: Class 2 24: Part A
71: BATHU SWAG (PTY) LIMITED

54: Footwears

57: The design is for a footwear. The features of the design are illustrated in the overall appearance of the footwear except for the logo and trademark devices which are shown for illustrative purposes only.



21: A2025/00350 22: 2025-03-28 23:
43: 2025-03-28
52: Class 2 24: Part A
71: BATHU SWAG (PTY) LIMITED

54: Footwears

57: The design is for a footwear. The features of the design are illustrated in the overall appearance of the footwear except for the logo and trademark

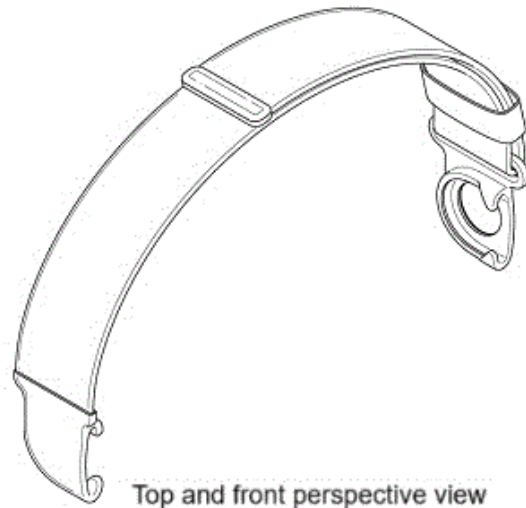
devices which are shown for illustrative purposes only.



21: A2025/00353 22: 2025-03-31 23:
43: 2025-10-09
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/966,530 32: 2024-10-02

54: Band

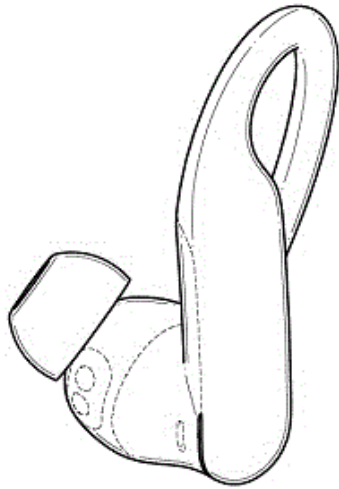
57: The design relates to a band. The features of the design are those of shape and/or configuration and/or ornamentation.



21: A2025/00354 22: 2025-03-31 23:
43: 2025-10-09
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/966,802 32: 2024-10-04

54: Earphone

57: The design relates to an earphone. The features of the design are those of shape and/or configuration and/or ornamentation.



Top Perspective View

21: A2025/00355 22: 2025-03-31 23:
43: 2025-10-09
52: Class 3. 24: Part A
71: APPLE INC.
33: US 31: 29/966,805 32: 2024-10-04

54: Case

57: The design relates to a case. The features of the design are those of shape and/or configuration and/or ornamentation.



Top and front perspective view

21: A2025/00358 22: 2025-04-03 23:
43: 2025-11-11
52: Class 07 24: Part A
71: AFRO COFFEE GMBH
33: EP 31: 015077053-0002 32: 2024-10-23

54: COFFEE MACHINE

57: The design is applied to a coffee machine. 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 coffee machine, substantially as illustrated in the accompanying representation. Features of the cup rest (A) do not form part of the design and are disclaimed from protection.



21: A2025/00359 22: 2025-04-03 23:
43: 2025-11-11
52: Class 07 24: Part A
71: AFRO COFFEE GMBH
33: EP 31: 015077053-0004 32: 2024-10-23

54: COFFEE MACHINE

57: The design is applied to a coffee machine. 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 coffee machine, substantially as illustrated in the accompanying representation. Features of the cup rest (A) do not form part of the design and are disclaimed from protection.



21: A2025/00360 22: 2025-04-03 23:
43: 2025-11-11
52: Class 07 24: Part A
71: AFRO COFFEE GMBH
33: EP 31: 015077053-0006 32: 2024-10-23
54: COFFEE MACHINE

57: The design is applied to a coffee machine. 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 coffee machine, substantially as illustrated in the accompanying representation. Features of the cup rest (A) do not form part of the design and are disclaimed from protection.

21: A2025/00361 22: 2025-04-03 23:
43: 2025-11-11
52: Class 07 24: Part A
71: AFRO COFFEE GMBH
33: EP 31: 015077053-0009 32: 2024-10-23
54: COFFEE MACHINE

57: The design is applied to a coffee machine. 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 coffee machine, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



21: A2025/00399 22: 2025-04-10 23:
43: 2025-11-11
52: Class 12 24: Part A
71: BYD COMPANY LIMITED
33: CN 31: 202430735807.4 32: 2024-11-20

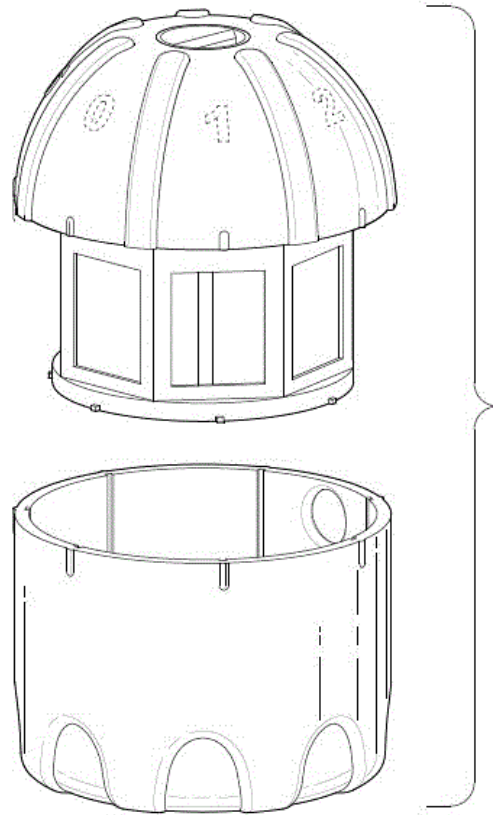
54: AUTOMOBILE

57: The design is applied to an automobile. 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 automobile, substantially as illustrated in the accompanying representation.



21: A2025/00405 22: 2025-04-11 23:
43: 2025-11-12
52: Class 07 24: Part A
71: UNIVERSITY OF JOHANNESBURG
54: A CLOSURE OPENING TOOL FOR A RECEPTACLE

57: The design relates to a tool. The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern and/or ornamentation of the tool, more particularly, a closure opening tool for a receptacle, irrespective of the features shown in broken lines.



EXPLODED PERSPECTIVE VIEW

21: A2025/00408 22: 2025-04-14 23:
43: 2025-11-12
52: Class 07 24: Part A
71: VUYO EDWARD MAKOKWE
54: FLOOR & WALL TILES
57: It will be like you puzzle four tyles and they give you a name, logo & slogan of the Automotive Brand or Club. This will be done in various types of tyles.



OF CAR & CLUB REPLICATED ON TILE

52: Class 9 24: Part A
71: WANG FAMILY INVESTMENT

54: PACKAGING BAG

57: The design relates to a PACKAGING BAG. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2025/00435 22: 2025-04-22 23:
43: 2025-11-11

52: Class 02 24: Part A
71: JOHNSTON, Luke Wesley

54: HEADWEAR

57: The design is applied to Headwear. 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 Headwear, substantially as illustrated in the accompanying representation.

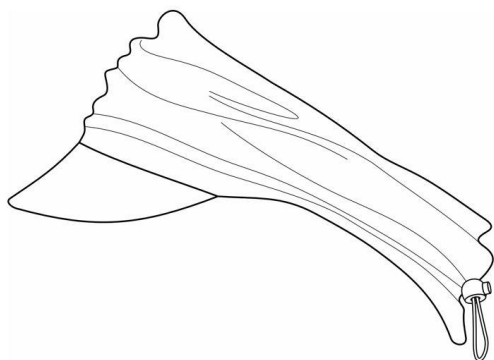


FIG. 3: LEFT SIDE VIEW IN THE COLLAPSED CONDITION
(SUBSTANTIALLY SIMILAR TO RIGHT SIDE VIEW)

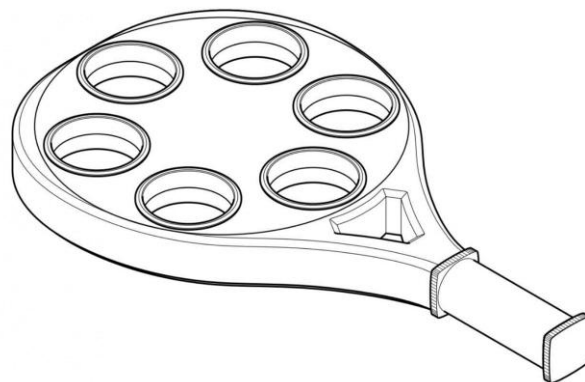
21: A2025/01244 22: 2025-10-20 23:
43: 2025-11-11

52: Class 7 24: Part A

71: Paulo Miguel Pereira LOPES, Ricardo Jose Pereira LOPES

54: A SERVING PADDLE

57: The design relates to a A Serving Paddle. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: A2025/01146 22: 2025-09-18 23:
43: 2025-11-13

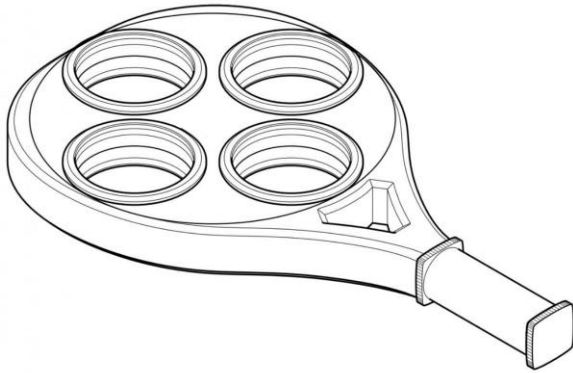
21: A2025/01247 22: 2025-10-20 23:
43: 2025-11-11

52: Class 7 24: Part A

71: Paulo Miguel Pereira LOPES, Ricardo Jose Pereira LOPES

54: A SERVING PADDLE

57: The design relates to a A Serving Paddle. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.



21: F2024/00247 22: 2024-03-05 23:
43: 2025-11-12

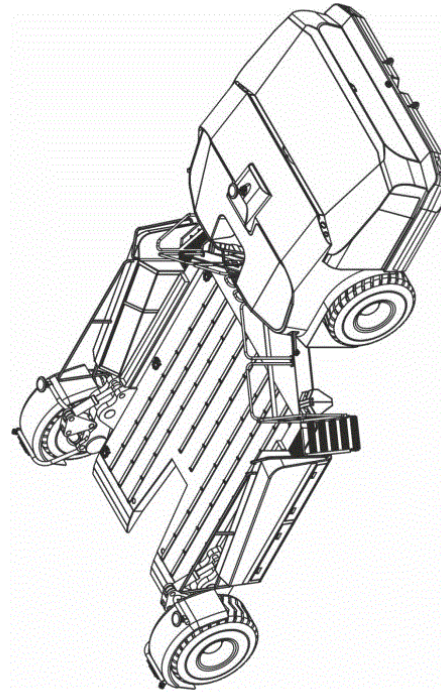
52: Class 12 24: Part F

71: SLEIPNER FINLAND OY

33: EU 31: 015034384 32: 2023-09-20

54: TRAILER

57: The design is to be applied to a trailer. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations.



FRONT PERSPECTIVE VIEW

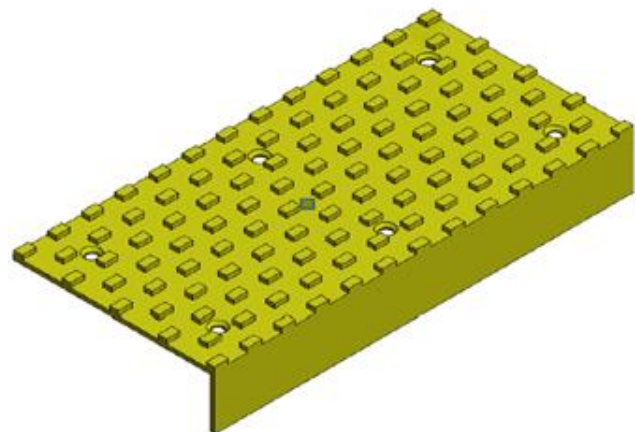
21: F2025/00186 22: 2025-02-20 23:
43: 2025-09-09

52: Class 25 24: Part F

71: JACOBUS JONATHAN JACOB, SWARTS

54: ANTI-SLIP DEVICE FOR STAIRS

57: The features of the design for which protection is claimed reside in the shape and/or pattern and/or configuration and/or ornamentation of an anti-slip device for stairs substantially as shown in the accompanying representations.



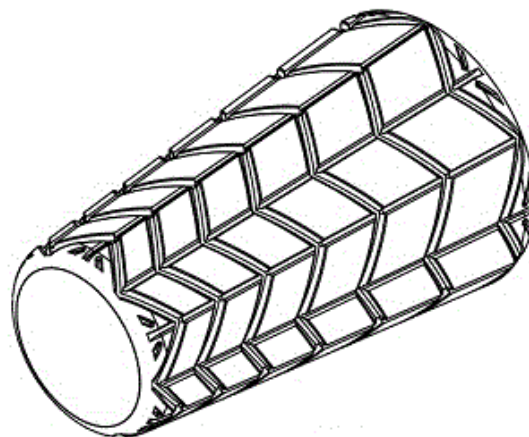
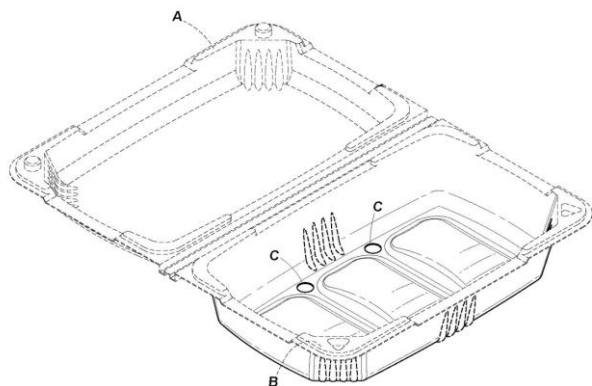
21: F2025/00215 22: 2025-02-24 23:
43: 2025-09-09

52: Class 09 24: Part F

71: Zibo Containers (Pty) Limited

54: CONTAINER

57: The features of the design for which protection is claimed include the pattern and/or shape and/or configuration of the container substantially as illustrated in the accompanying representations, irrespective of the lid indicated by A and B.

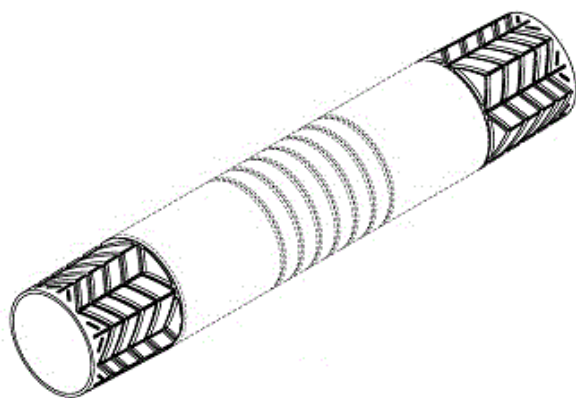


Perspective view

21: F2025/00254 22: 2025-03-03 23:
43: 2025-10-09
52: Class 12. 24: Part F
71: TRU-TRAC ROLLERS (PTY) LTD.

54: Set of Rollers

57: The design relates to a set of rollers. The features of the design are those of shape and/or configuration and/or pattern.



Perspective view wing roller

21: F2025/00255 22: 2025-03-03 23:
43: 2025-10-09
52: Class 12. 24: Part F
71: TRU-TRAC ROLLERS (PTY) LTD.

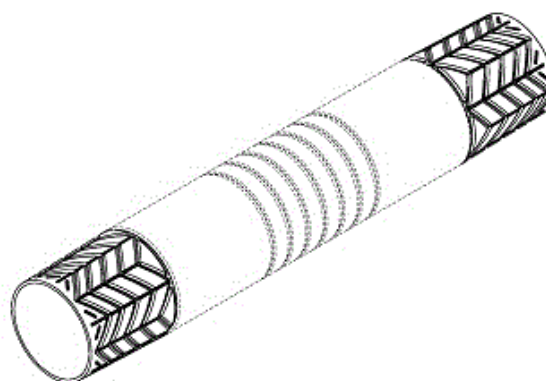
54: Tapered Roller

57: The design relates to a tapered roller. The features of the design are those of shape and/or configuration and/or pattern.

21: F2025/00256 22: 2025-03-03 23:
43: 2025-10-09
52: Class 12. 24: Part F
71: TRU-TRAC ROLLERS (PTY) LTD.

54: Flat Centred Roller

57: The design relates to a flat centred roller. The features of the design are those of shape and/or configuration and/or pattern.

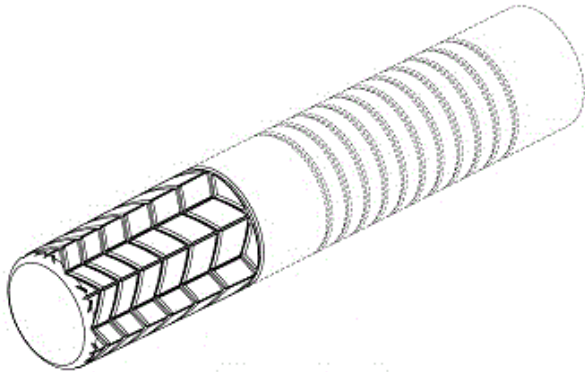


Perspective view

21: F2025/00257 22: 2025-03-03 23:
43: 2025-10-09
52: Class 12. 24: Part F
71: TRU-TRAC ROLLERS (PTY) LTD.

54: Roller

57: The design relates to a roller. The features of the design are those of shape and/or configuration and/or pattern.



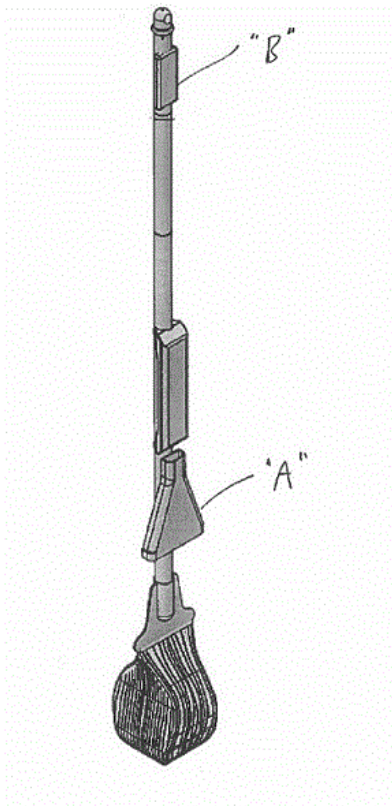
Perspective view

21: F2025/00271 22: 2025-03-05 23:
43: 2025-10-09

52: Class 4 24: Part F
71: MEINTJES, Lorraine

54: A MOP

57: The design is applied to a mop equipped with a power-driven fan. The features of the design for which protection is claimed include the shape, pattern and/or configuration of a mop, as shown in the drawings, showing the overall appearance thereof.

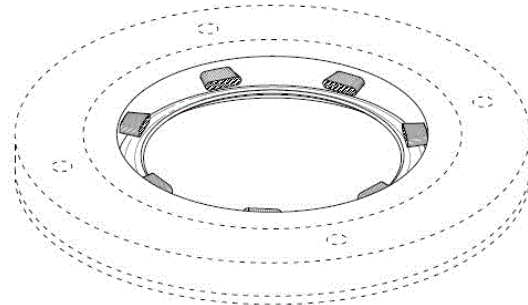


21: F2025/00285 22: 2025-03-10 23:
43: 2025-10-09

52: Class 13 24: Part F
71: TIMM, Troy Lance

54: GROUNDING DEVICE

57: The design relates to a grounding device for electric apparatuses. The features of the design are those of shape and/or configuration and/or pattern.



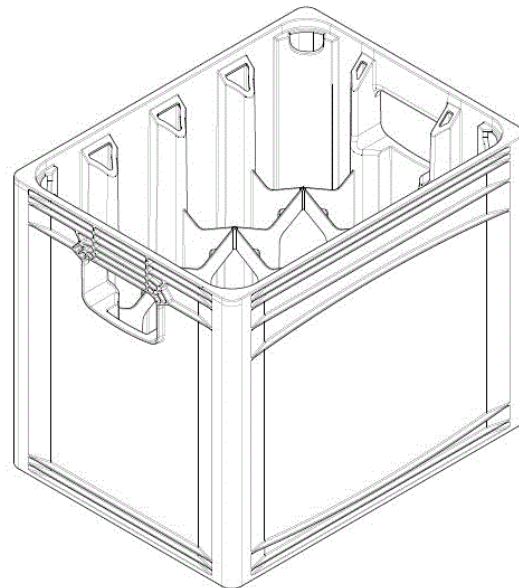
FRONT PERSPECTIVE VIEW

21: F2025/00290 22: 2025-03-11 23:
43: 2025-10-09

52: Class 9 24: Part F
71: MCG INDUSTRIES (PTY) LTD

54: BOTTLE CRATE

57: The design relates to a bottle crate. The features of the design are those of shape and/or configuration and/or pattern.



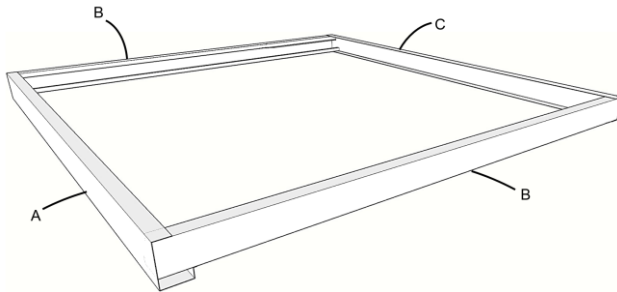
TOP PERSPECTIVE VIEW

21: F2025/00297 22: 2025-03-13 23:
43: 2025-10-09

52: Class 25 24: Part F
71: VAN DER LEEK, Robert Benjamin

54: FASCIA WITH INTEGRAL GUTTER

57: The design is for fascia with integral gutter that includes a front gutter (A), two side gutters (B) and a back fixing panel (C). The fascia with integral gutter can be installed on the outer edges of an awning to collect and redirect water from the awning panel(s).



21: F2025/00300 22: 2025-03-14 23:

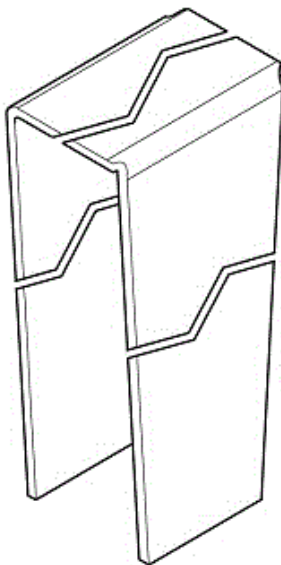
43: 2025-10-09

52: Class 9. 24: Part F

71: MPACT LIMITED

54: Box Connector

57: The design relates to a box connector. The features of the design are those of shape and/or configuration and/or pattern.



Perspective view

21: F2025/00302 22: 2025-03-14 23:

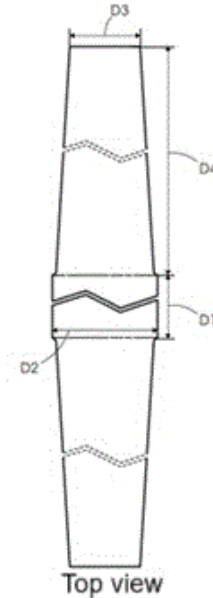
43: 2025-10-09

52: Class 9. 24: Part F

71: MPACT LIMITED

54: Box Connector Blank

57: The design relates to a box connector blank. The features of the design are those of shape and/or configuration and/or pattern.



Top view

21: F2025/00306 22: 2025-03-17 23:

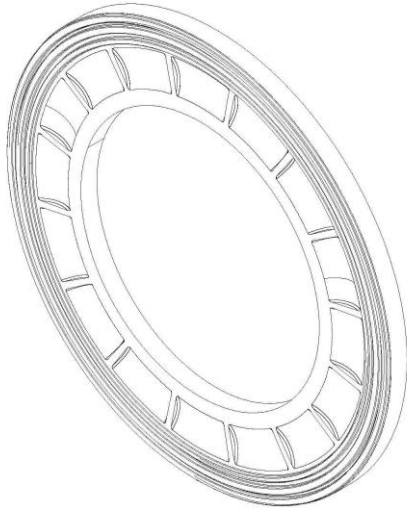
43: 2025-03-17

52: Class 12 24: Part F

71: Terra Trak Technologies International
(Proprietary) Limited

54: A Disc Element for an Insert for a Run Flat Tyre

57: The design is for a disc element for an insert for a run flat tyre. The disc element has an annular body with a plurality of depressions on both sides. At a radially outer end, spanning about 1/3 a width of the body, a plurality of radially-spaced circumferentially-extending grooves are provided which are oppositely configured. At a radially inner end, spanning about 2/3 a width of the body, a plurality of circumferentially-spaced arcuate rectangular recesses are provided.



21: F2025/00347 22: 2025-03-26 23:

43: 2025-10-09

52: Class 24 24: Part F

71: WISNIEWSKI, Pawel

54: SEALABLE CONNECTOR

57: The design relates to a sealable connector. The features of the design are those of shape and/or configuration.



21: F2025/00348 22: 2025-03-26 23:

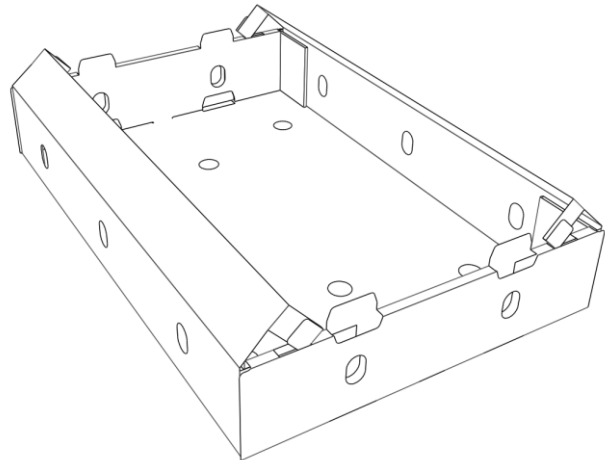
43: 2025-10-09

52: Class 09 24: Part F

71: APL Cartons (Pty) Ltd

54: CONTAINERS

57: The design is for a stackable container with four side walls and top flaps that extend from two opposing side walls. The container defines locking apertures in two opposing side walls, as well as locking formations that protrude from the sides of the top flaps. The locking formations are received into the locking apertures to secure the top flaps in closed positions.



21: F2025/00351 22: 2025-03-28 23:

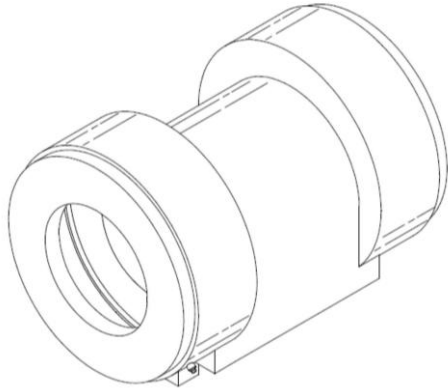
43: 2025-03-28

52: Class 12 24: Part F

71: BDC Mining Supplies (Pty) Ltd

54: Bearing boxes

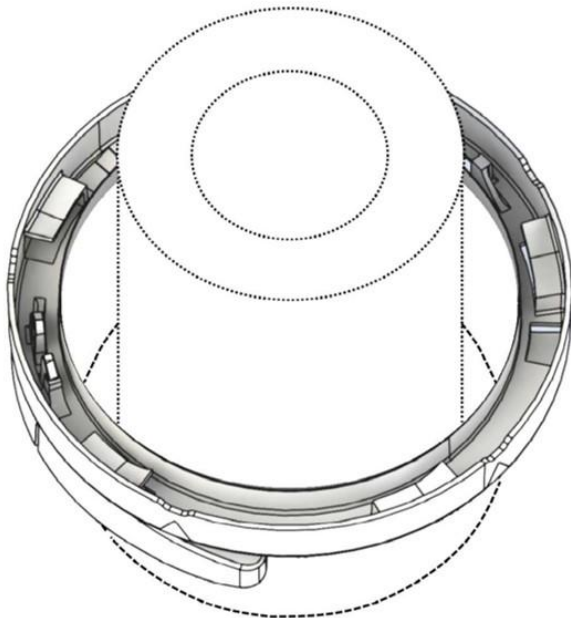
57: This invention relates to a bearing box configured to receive a wheelset of a railway vehicle or material car for transporting material and other goods in underground settings. The bearing box is configured to receive dual bearings and to this end it has a generally tubular body which comprises a central mounting portion which is flanked on either side by an annular bearing housing configured to receive a sealed bearing. Each bearing housing is closed off by an annular collar which is press-fitted to the bearing housing. The body has a grease nipple for greasing the bearings. The mounting portion defines a central circular aperture for accommodating an axle of the wheelset. The mounting portion further defines a planar mounting face with a flange on either side of the mounting face for locating the bearing box on a chassis of the material car.



21: F2025/00356 22: 2025-04-01 23:
43: 2025-11-13
52: Class 23 24: Part F
71: BREATHESAFE PTY LTD
33: US 31: 29/969,392 32: 2024-10-22

54: AIR FILTER ASSEMBLY

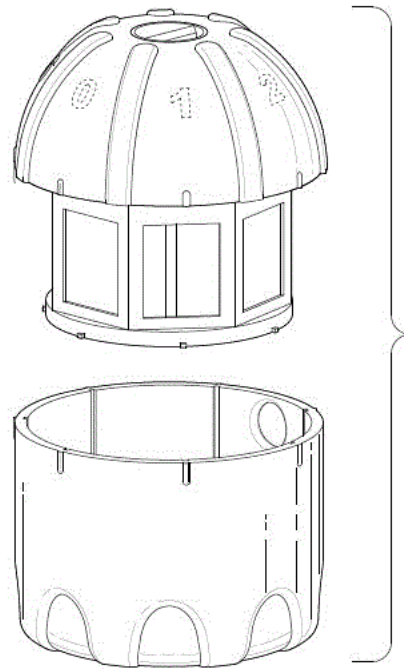
57: The design is applied to an air filter assembly. The features of the design for which protection is claimed are for the shape and/or pattern and/or configuration of the air filter assembly, substantially as illustrated in the accompanying representation. Features shown in broken lines as well as grayscale shading shown in the accompanying representation do not form part of the design and are disclaimed.



21: F2025/00406 22: 2025-04-11 23:
43: 2025-11-12
52: Class 07 24: Part F

71: UNIVERSITY OF JOHANNESBURG
54: A CLOSURE OPENING TOOL FOR A RECEPTACLE

57: The design relates to a tool. The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of the tool, more particularly, a closure opening tool for a receptacle, irrespective of the features shown in broken lines.

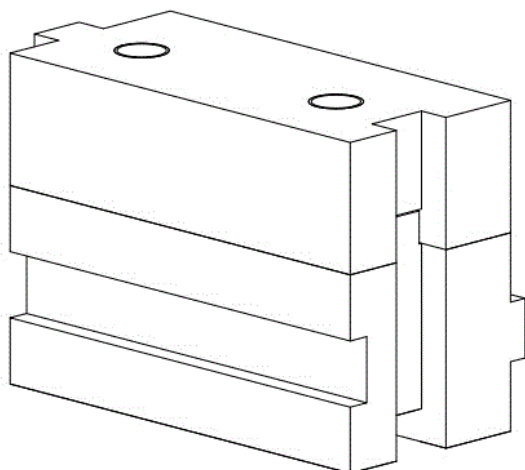


EXPLODED PERSPECTIVE VIEW

21: F2025/00416 22: 2025-04-14 23:
43: 2025-11-12
52: Class 25 24: Part F
71: E K CONSTRUCTION AND ALL GENERAL
TRADING CC

54: FLOORING SYSTEM

57: The features of the design for which protection is claimed include the shape and/or configuration of a flooring system, substantially as illustrated in the accompanying representations.



PERSPECTIVE VIEW OF FIRST AND SECOND
ARTICLE IN A TYPICAL UNIT OF ASSEMBLY

21: F2025/00436 22: 2025-04-22 23:

43: 2025-11-11

52: Class 02 24: Part F

71: JOHNSTON, Luke Wesley

54: HEADWEAR

57: The design is applied to Headwear. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the Headwear, substantially as illustrated in the accompanying representation.

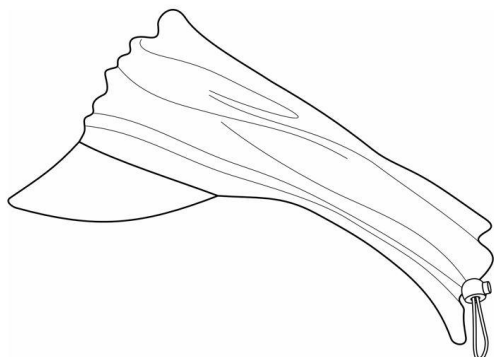


FIG. 3: LEFT SIDE VIEW IN THE COLLAPSED CONDITION
(SUBSTANTIALLY SIMILAR TO RIGHT SIDE VIEW)

21: F2025/01242 22: 2025-10-20 23:

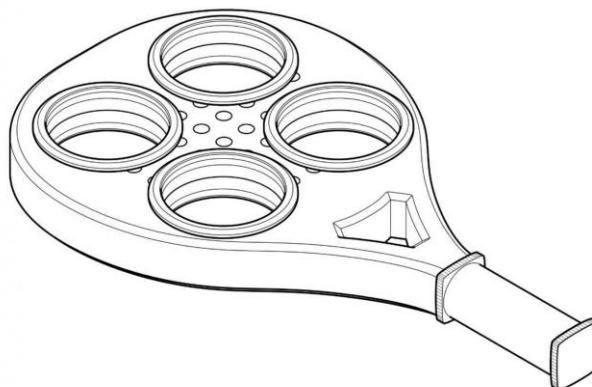
43: 2025-11-11

52: Class 7 24: Part F

71: Paulo Miguel Pereira LOPES, Ricardo Jose
Pereira LOPES

54: A SERVING PADDLE

57: The design relates to a A Serving Paddle. The features of the design are those of shape and/or pattern and/or configuration.



21: F2025/01243 22: 2025-10-20 23:

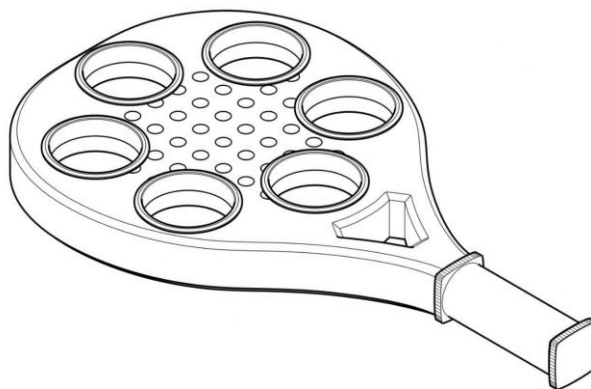
43: 2025-11-11

52: Class 7 24: Part F

71: Paulo Miguel Pereira LOPES, Ricardo Jose
Pereira LOPES

54: A SERVING PADDLE

57: The design relates to a A Serving Paddle. The features of the design are those of shape and/or pattern and/or configuration.



21: F2025/01245 22: 2025-10-20 23:

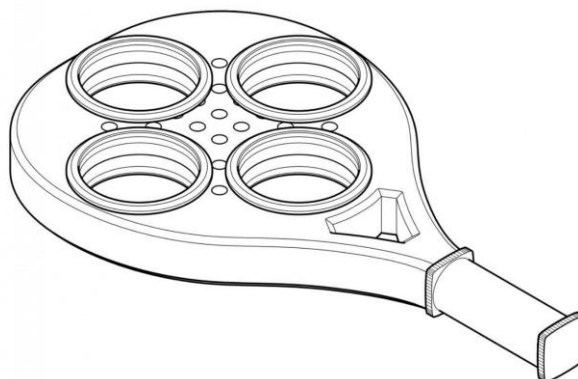
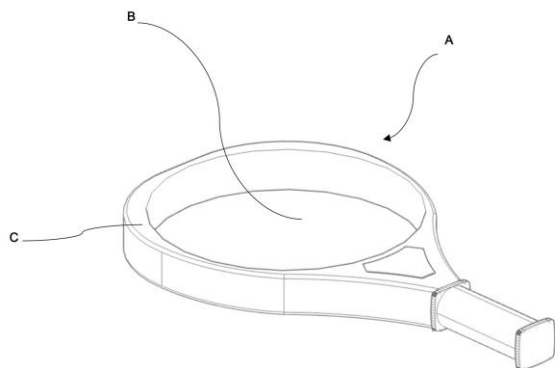
43: 2025-11-09

52: Class 7 24: Part F

71: Paulo Miguel Pereira LOPES, Ricardo Jose
Pereira LOPES

54: A SERVING PADDLE

57: The design relates to a A Serving Paddle. The features of the design are those of shape and/or pattern and/or configuration.



21: F2025/01248 22: 2025-10-20 23:

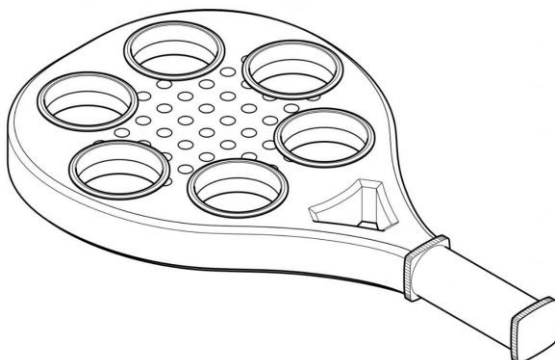
43: 2025-11-11

52: Class 7 24: Part F

71: Paulo Miguel Pereira LOPES, Ricardo Jose
Pereira LOPES

54: A SERVING PADDLE

57: The design relates to a A Serving Paddle. The features of the design are those of shape and/or pattern and/or configuration.



21: F2025/01249 22: 2025-10-20 23:

43: 2025-11-11

52: Class 7 24: Part F

71: Paulo Miguel Pereira LOPES, Jorge Gouveia
FERREIRA

54: A SERVING PADDLE

57: The design relates to a A Serving Paddle. The features of the design are those of shape and/or pattern and/or configuration.

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

No records available

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

No records available

PATENT CORRECTION NOTICES

The patent application number **2025/03408** was advertised in the November 2025 journal with incorrect order of inventors and it should have appeared as the one below however the publication date will remain the **26/11/2025**.

21: 2025/03408. 22: 2025/04/23. 43: 2025/11/03

51: A61B 71: Guangxi University, Guangxi Minzu University, Hunan University

72: ZHANG Zhe; DING Can; WU Xinzhang; LIANG Lianhui; LIU Min; ZHANG Yiyi; MIAO Zhiqiang; LUO Jianqiao; XU Chenghao

54: A DAPTIVE LEARNING SURGICAL ROBOT INTELLIGENT CONTROL SYSTEM

00: -

The present invention patent discloses an intelligent control system for adaptive learning surgical robots, specifically related to the field of surgical robots. Including: multimodal sensing module: integrated high-precision force sensor or torque sensor, multispectral imaging device, 6-degree-of-freedom position tracker; Deep learning processor: using a three-level neural network architecture to analyze multimodal data in real-time, namely the CNN-LSTM fusion network model; Adaptive control engine: dynamically adjust the output force of the robotic arm based on organizational mechanics characteristics and optimize the motion path; Surgical knowledge base: stores expert operation modes and historical data, supports incremental learning updates. The technical solution of the present invention solves the problem that the existing surgical robot control system cannot adaptively adjust according to the surgical process, and improves the performance of the surgical robot.

DESIGNS CORRECTION NOTICES

No records available

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2024/06315	STEEL SHEET AND HIGH STRENGTH PRESS HARDENED STEEL PART HAVING EXCELLENT BENDING AND METHOD OF MANUFACTURING THE SAME	2024/08/16
2024/06328	METHOD FOR PRODUCING EXHAUST GAS PURIFICATION CATALYST	2024/08/16
2024/06644	CONNECTED CLOSURE DEVICE COMPRISING A STABILISED CONNECTION ELEMENT	2024/08/28
2024/06686	DEVICE AND METHOD FOR PRODUCING A CAN LID	2024/08/29
2024/06689	HEEL SHROUD HAVING STRESS CONCENTRATION REDUCTION	2024/08/29

	GEOMETRY AND ENHANCED DURABILITY FOR USE IN CONSTRUCTION MACHINES	
2024/06717	HYBRID MUSHROOM STRAIN B19414 AND METHODS AND USES THEREFOR	2024/08/30
2024/06757	LOW-COST STRUCTURE FOR PURIFYING AND CONTAINING HIGH CLARITY WATER THAT IS USED FOR DIRECT CONTACT RECREATIONAL PURPOSES	2024/09/02
2024/06826	CARBONATION MACHINE WITH INTEGRATED WATER TREATMENT AND DETACHABLE WATER RESERVOIR	2024/09/04
2024/06851	CAP FOR A CONTAINER	2024/09/05
2024/06858	PRIMER DELIVERY SYSTEMS AND METHODS	2024/09/05
2024/06864	A METHOD AND SYSTEM FOR EXTRACTION OF IRON VALUES FROM RED MUD	2024/09/05
2024/06961	COMBINATION OF 5-AMINO-2,3-DIHYDRO-1,4-PHTHALAZINEDIONE AND A FUMARIC ACID ESTER	2024/09/10
2024/06963	SILOXANE DERIVATIVES OF AMINO ACIDS HAVING SURFACE-ACTIVE PROPERTIES	2024/09/10
2024/06985	FASTENING INSTRUMENT, MANUFACTURING METHOD THEREFOR, AND MEDICAL FASTENING DEVICE	2024/09/11
2024/06986	A NOVEL PROTEIN COMPOSITION AND THEIR USE IN FORMULATING DAIRY PRODUCTS	2024/09/11
2024/07021	ELECTRONIC DEVICE COMPRISING ANTENNA	2024/09/12
2024/07067	EXTRUSION BLOW MOLDING MACHINE	2024/09/13
2024/07068	IRRIGATION SYSTEM INCLUDING ELECTRONIC INDEPENDENT OBSERVER INTEGRATION WITH FERTIGATION SYSTEM	2024/09/13
2024/07069	BUILDING MATERIAL	2024/09/13
2024/07071	TOMATO PLANT RESISTANT TO TOMATO SPOTTED WILT VIRUS	2024/09/13
2024/07080	METHOD AND SYSTEM FOR MANUFACTURING GLASS	2024/09/13
2024/07098	REPELLENT COMPOSITION AND USES	2024/09/16
2024/07108	COMPOSITION FOR PREVENTING FUNGAL SPOILAGE IN POST-HARVEST FRUITS, VEGETABLES AND FLOWERS, METHOD AND USE THEREOF	2024/09/16
2024/07109	METHOD FOR WIRELESS COMMUNICATION AND DEVICES THEREOF	2024/09/16
2024/07111	A TABLET COMPOSITION	2024/09/16
2024/07121	A METHOD OF PRODUCING EXPLOSIVE HMX BY FLOW SYNTHESIS	2024/09/17

2024/07124	CAPS FOR A CONTAINER AND METHOD FOR MAKING A CAP FOR A CONTAINER	2024/09/17
2024/07127	A COMPUTER IMPLEMENTED METHOD OF GENERATING AN AVATAR	2024/09/17
2024/07135	LINER PLATE MOUNTING ASSEMBLY	2024/09/17
2024/07152	DYNAMIC OPTICAL SYSTEM CALIBRATION	2024/09/18
2024/07153	METHOD FOR PREPARING SLURRY AND METHOD FOR PRODUCING EXHAUST GAS PURIFYING CATALYST	2024/09/18
2024/07155	WRITING UTENSIL COMPRISING A PLA/PBS SHAFT BASE MATERIAL	2024/09/18
2024/07157	COMPRESSOR AND METHOD FOR COMPRESSING A WORKING MEDIUM	2024/09/18
2024/07159	PYRIMID-2-YL-PYRAZOLE COMPOUNDS AS IRAK INHIBITORS	2024/09/18
2024/07181	REVAMP PROCESS FOR AN AMMONIA AND METHANOL CO-PRODUCTION PLANT	2024/09/19
2024/07202	METHOD FOR AND APPARATUS FOR DECODING AN AMBISONICS AUDIO SOUNDFIELD REPRESENTATION FOR AUDIO PLAYBACK USING 2D SETUPS	2024/09/20
2024/07224	PREPARATION METHOD OF NITROGEN-CONTAINING HETEROCYCLIC COMPOUND	2024/09/20
2024/07225	SALT AND CRYSTAL FORM OF DIPEPTIDYL PEPTIDASE INHIBITOR COMPOUND	2024/09/20
2024/07260	1-ARYLTETRAHYDROPYRIDAZINE-3,5-DIONE DERIVATIVE OR SALT THEREOF AND INSECTICIDAL AGENT CONTAINING THE COMPOUND AND METHOD FOR USING SAME	2024/09/23
2024/07265	COMPOUNDS AND METHODS FOR TREATING SPASTICITY	2024/09/23
2024/07310	2-[(2-OXO-4-PHENYL-2H-CHROMEN-7-YL)OXY] PROPANAMIDO DERIVATIVES	2024/09/25
2024/07324	PIPE CLAMPING SYSTEM	2024/09/26
2024/07337	METHOD FOR EXCLUDING THE AGGRESSIVE INCOMPATIBILITY TRAIT FROM STRAINS OF AGARICUS BISPORUS AND RELATED STRAINS AND LINES	2024/09/26
2024/07348	PRODUCTION METHOD FOR EXHAUST GAS PURIFICATION CATALYST AND CHEMICAL SOLUTION PLATE USED IN SAID PRODUCTION METHOD	2024/09/26
2024/07381	PROCESS FOR PRODUCING VINYL CHLORIDE MONOMER FROM ACETYLENE	2024/09/27
2024/07459	SYSTEM AND PROCESS FOR PREHEATING RAW MATERIAL IN THE PRODUCTION OF FERROCHROME PRODUCTS	2024/09/30

2024/07460	ORAL CARE PRODUCT	2024/09/30
2024/07529	RECYCLING OF CATALYST COATED MEMBRANE COMPONENTS	2024/10/03
2024/07535	DRILL BIT ASSEMBLY FOR REVERSE CIRCULATION HAMMER	2024/10/03
2024/07536	DEVICE FOR SHAPING AND/OR SMOOTHING A TAMPON END	2024/10/03
2024/07538	SUBMERSIBLE, HIGH-VOLTAGE ELECTRICAL CONNECTOR	2024/10/03
2024/07541	COMPOSITE CONDUCTORS INCLUDING RADIATIVE AND/OR HARD COATINGS AND METHODS OF MANUFACTURE THEREOF	2024/10/03
2024/07552	CANNABINOID RECEPTOR 1 ANTAGONISTS/INVERSE AGONISTS AND USES THEREOF	2024/10/04
2024/07597	LENS ASSEMBLY AND ELECTRONIC DEVICE COMPRISING SAME	2024/10/07
2024/07599	ANTIBODIES THAT SPECIFICALLY BIND TO API5 PROTEIN	2024/10/07
2024/07601	AIR OPERATED DOUBLE DIAPHRAGM PUMP WITH ACCESSIBLE FEATURES	2024/10/07
2024/07602	SYSTEMS AND METHODS OF INDIVIDUAL ANIMAL IDENTIFICATION	2024/10/07
2024/07603	DIAZABICYCLOOCTANE DERIVATIVES USEFUL AS MATRIX METALLOPROTEINASE INHIBITORS	2024/10/07
2024/07604	ULTRA-HIGH TEMPERATURE PYROLYSIS SEPARATION OF HYDROGEN AND CARBON	2024/10/07
2024/07625	RAILCAR COUPLER KEY RETAINER APPARATUS	2024/10/08
2024/07644	AZOLE COMPOUNDS FOR CONTROLLING INVERTEBRATE PESTS	2024/10/09
2024/07645	METHODS FOR THE PREPARATION OF 5-BROMO-2-(3-CHLORO-PYRIDIN-2-YL)-2H-PYRAZOLE-3-CARBOXYLIC ACID	2024/10/09
2024/07648	TRANSMEMBRANE PROTEASE, SERINE 6 (TMPRSS6) RNA COMPOSITIONS AND METHODS OF USE THEREOF	2024/10/09
2024/07666	METHODS OF DETERMINING THE RISK OF DEVELOPING ALZHEIMER'S DISEASE DEMENTIA	2024/10/09
2024/07671	SYSTEM FOR PRODUCING A HYDROCARBON PRODUCT FROM A SYNGAS	2024/10/09
2024/07720	DEVICE FOR CARDIOLOGIC MAGNETIC AND OPTICAL STIMULATION	2024/10/11
2024/07721	METHODS FOR THE PREPARATION OF 5-CHLORO-2-((ETHOXYCARBONYL)AMINO)-3-METHYLBENZOIC ACID	2024/10/11

2024/07722	NOVEL SULFONATE BENZAMIDE COMPOUNDS FOR CONTROLLING INVERTEBRATE PESTS	2024/10/11
2024/07724	SUPERCONDUCTING INDUCTION LOOPS FOR MINERAL EXPLORATION	2024/10/11
2024/07776	SLIDE CLOSURE FOR A VESSEL CONTAINING MOLTEN METAL	2024/10/14
2024/07791	TRAUMATIC BRAIN INJURY PROTECTION DEVICES	2024/10/15
2024/07812	TRANSACTION AUTHORIZATION AND VERIFICATION THROUGH DISTRIBUTED-LEDGER-BASED CHAIN OF CUSTODY	2024/10/15
2024/08543	A METHOD OF MANUFACTURING MOLTEN PIG IRON INTO AN ELECTRICAL SMELTING UNIT	2024/11/11
2024/08551	A METHOD OF MANUFACTURING MOLTEN PIG IRON INTO AN ELECTRICAL SMELTING UNIT	2024/11/11
2024/08632	A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED SMELTING FURNACE	2024/11/13
2024/08633	A METHOD OF MANUFACTURING MOLTEN PIG IRON INTO AN ELECTRICAL SMELTING FURNACE	2024/11/13
2024/08635	A METHOD FOR MANUFACTURING PIG IRON IN A PRODUCTION LINE COMPRISING AN ELECTRICAL SMELTING FURNACE	2024/11/13
2024/08637	METHOD FOR MANUFACTURING PIG IRON IN A PRODUCTION LINE COMPRISING AN ELECTRICAL SMELTING FURNACE	2024/11/13
2024/08673	A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED ELECTRICAL SMELTING FURNACE	2024/11/14
2024/08754	APPARATUS, IN PARTICULAR A CONTROL APPARATUS, FOR DETECTING MOVEMENTS OF A MAGNET CARRIER	2024/11/18
2024/08761	A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED ELECTRICAL SMELTING FURNACE	2024/11/18
2024/08824	A METHOD FOR MANUFACTURING PIG IRON IN AN ELECTRICAL SMELTING FURNACE AND ASSOCIATED ELECTRICAL SMELTING FURNACE	2024/11/20
2024/08838	A METHOD FOR PRODUCING MOLTEN PIG IRON INTO AN ELECTRICAL SMELTING UNIT	2024/11/20
2024/08902	AUTOMOTIVE VEHICLE WITH PRESS HARDENED VISIBLE STEEL PARTS	2024/11/22
2024/08948	STEEL SHEET WITH VARIABLE THICKNESS HAVING A REDUCED RISK	2024/11/25

	OF DELAYED FRACTURE AFTER PRESS HARDENING AND METHOD FOR MANUFACTURING THE SAME	
2025/01655	TRADITIONAL CHINESE MEDICINE BOILING DEVICE FOR TREATING BRUCELLOSIS	2025/02/24
2025/01922	CEMENTITIOUS REAGENTS, METHODS OF MANUFACTURING AND USES THEREOF	2025/02/26
2025/02064	INDUSTRIAL NETWORK SYSTEM SENSOR SCHEDULING METHOD	2025/03/07
2025/02074	ROTATING MACHINE FAULT DIAGNOSIS METHOD	2025/03/07
2025/02075	FRACTURE MECHANICS EXPERIMENTAL DEVICE	2025/03/07
2025/02076	CHIMERIC NEUROTOXINS	2025/03/07
2025/02080	CARBON-BASED NANOMATERIAL PURIFICATION PROCESS	2025/03/07
2025/02082	METHOD FOR PREPARING POROUS CARBON MATERIAL	2025/03/07
2025/02084	CULTURAL AND CREATIVE PRODUCT DISPLAY CABINET BASED ON IDEOLOGICAL AND POLITICAL PROPAGANDA	2025/03/07
2025/02099	SYSTEMS AND UNITS FOR MARINE INFRASTRUCTURE FOUNDATION SCOUR PROTECTION	2025/03/07
2025/02197	WEARABLE SLEEPING GARMENT	2025/03/12
2025/02211	MULTILAYER COVER FOR HOLDING A DEVICE ON A HUMAN BODY	2025/03/12
2025/02245	SYSTEM FOR STABILISING SELF-PROPELLED OPERATING MACHINES	2025/03/13
2025/02335	THERMAL BARRIER SYSTEM FOR A DOORWAY	2025/03/17
2025/02366	An air purification device	2025/03/18
2025/02398	CYLINDER LOCK	2025/03/19
2025/02399	ELECTRONIC TRANSACTION MANAGEMENT SYSTEM FOR PROVIDING A TIP	2025/03/19
2025/02408	A Method of Preparing a Multipixel Image for Quilting and a Prepared Image	2025/03/19
2025/02442	OPTIMIZED USER EQUIPMENT CAPABILITIES SIGNALING INCLUDING RECOVERY FROM DATABASE FAILURE	2025/03/20
2025/02528	PRODRUG OF JAK KINASE INHIBITOR	2025/03/24
2025/02606	COMPOUNDS AND METHODS TARGETING HUMAN TAU	2025/03/26
2025/02648	EXTREMELY THIN DIAMOND COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF	2025/03/27
2025/02651	WATER-ENERGY NEXUS BUILDING PANEL	2025/03/27

2025/02659	HIGH-PACK DENSITY MULTI-FACETED BOTTLE WITH ROUND BASE	2025/03/27
2025/02660	REACTOR FUEL-LOADING AND REFUELING SYSTEM AND METHOD	2025/03/27
2025/02698	A POWER CONTROLLER	2025/03/28
2025/02743	A FRONT PILLAR FOR A VEHICLE	2025/03/31
2025/02821	VIRAL VECTORS FOR CANCER THERAPY	2025/04/02
2025/02822	VIRAL VECTORS FOR CANCER THERAPY	2025/04/02
2025/02830	AN ITEM CARRYING BRACKET FOR USE IN RETAINING AN ITEM ON A MOTOR VEHICLE	2025/04/02
2025/02831	AN ITEM CARRYING DEVICE FOR A VEHICLE	2025/04/02
2025/02846	PHARMACEUTICAL COMPOSITION FOR PREVENTION OR TREATMENT OF NEPHROPATHY AND/OR DIABETES MELLITUS, COMPRISING ENAVOGLIFLOZIN	2025/04/02
2025/02878	STABLE HIGH-CONCENTRATION SELF-BUFFERING PHARMACEUTICAL COMPOSITION	2025/04/03
2025/02885	METHOD AND SYSTEM FOR STEAM CRACKING	2025/04/03
2025/02890	HERPES ZOSTER MRNA VACCINE, PREPARATION METHOD THEREFOR, AND USE THEREOF	2025/04/04
2025/02894	AN ORAL COMPOSITION FOR ANIMALS	2025/04/04
2025/02895	INTEGRATED UNDERGROUND MINING SYSTEM WITH OSCILLATING POLYCRYSTALLINE DIAMOND CUTTERS AND ADAPTIVE OPERATIONAL CAPABILITIES	2025/04/04
2025/02908	HOSE DEVICE FOR SIMULTANEOUSLY TRANSPORTING MULTIPLE ELEMENTS SEPARATELY	2025/04/04
2025/02920	HANDHELD REFEREE SIGNALING DEVICE	2025/04/07
2025/02922	A METHOD FOR PREDICTING TOTAL NITROGEN LEVELS IN WASTEWATER USING OPTIMIZED MACHINE LEARNING	2025/04/07
2025/02930	PROPIONIC ACID DERIVATIVE AND USE THEREOF IN MEDICINE	2025/04/07
2025/02960	METHOD AND DEVICE FOR ESTABLISHING AND CALIBRATING THE SCALE MODEL OF MOBILE TRUCK SCANNING STATION	2025/04/08
2025/02961	METHOD AND DEVICE FOR ORE GRADE ASSESSMENT	2025/04/08
2025/02980	CATARACT SURGICAL INSTRUMENT	2025/04/08
2025/03037	PHARMACEUTICAL INJECTABLE SOLUTION COMPRISING DOPAMINE	2025/04/10

2025/03043	A KIND OF CONSTRUCTION WASTE RECYCLING TREATMENT DEVICE	2025/04/10
2025/03052	AN INTELLIGENT BUILDING PAINTING DEVICE	2025/04/10
2025/03091	A RISK MANAGEMENT SYSTEM	2025/04/11
2025/03125	A METHOD FOR SELECTING AND BREEDING FOREST-UNDERSTORY COLD-RESISTANT TRADITIONAL CHINESE MEDICINAL HERB VARIETIES	2025/04/14
2025/03136	METHOD AND APPARATUS FOR CONTROLLING A MODIFICATION PROCESS OF HYGROSCOPIC MATERIAL	2025/04/14
2025/03169	RGD DIMER COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF	2025/04/14
2025/03170	PLASMA REACTOR	2025/04/15
2025/03191	THERMAL ENERGY RECOVERY COVER PANEL TO PRODUCE ELECTRICITY	2025/04/15
2025/03209	AI-DRIVEN METHOD OF AUTOMATED DETECTION OF CRACKS IN PAVEMENT USING DRONE IMAGERY	2025/04/16
2025/03210	LONG-ACTING SPLEEN-TARGETING CATIONIC LIPID COMPOUND COMPRISING BENZENE RING STRUCTURE, COMPOSITION COMPRISING SAME, AND USE THEREOF	2025/04/16
2025/03212	A STORABLE GAIT ACQUISITION DEVICE	2025/04/16
2025/03213	REAL-TIME FLOOD RISK MAPPING WITH HYDROLOGIC MODELING AND MACHINE LEARNING	2025/04/16
2025/03214	TUNNEL DEFORMATION MONITORING USING LIDAR AND DEEP LEARNING	2025/04/16
2025/03215	AUTOMATIC SPILL-PROOF CUP LID WITH ADJUSTABLE FLOW CONTROL	2025/04/16
2025/03216	WEARABLE HEALTH MONITORING DEVICE WITH REAL-TIME DATA TRANSMISSION	2025/04/16
2025/03247	INTEGRAL INSTALLATION METHOD FOR SUPERSTRUCTURE OF OFFSHORE PILE-FOUNDATION MARINE BUILDING	2025/04/16
2025/03263	SYSTEM AND METHOD OF COMPREHENSIVE STRESS ANALYSIS IN METALLIC STRUCTURES	2025/04/17
2025/03264	CEMENT EMBEDDED SENSOR-BASED METHOD AND SYSTEM FOR ASSESSING STRUCTURE INTEGRITY	2025/04/17
2025/03265	REAL-TIME MONITORING OF CONCRETE STRUCTURAL INTEGRITY IN BRIDGE STRUCTURES	2025/04/17
2025/03266	AUTOMATED GEOTECHNICAL RISK ASSESSMENT TOOL FOR SLOPE STABILITY USING MACHINE LEARNING AND GIS INTEGRATION	2025/04/17
2025/03267	SMART TV INTERFACE WITH GESTURE-CONTROLLED MENU NAVIGATION	2025/04/17

2025/03268	EMAIL SORTING ENGINE WITH PRIORITY-BASED MACHINE LEARNING	2025/04/17
2025/03272	BATTERY HEALTH MONITOR WITH PREDICTIVE DEGRADATION ANALYTICS	2025/04/17
2025/03273	VOICE-CONTROLLED RECIPE ASSISTANT WITH STEP-BY-STEP DISPLAY LOGIC	2025/04/17
2025/03274	HOME SECURITY CAMERA CONTROLLER WITH MOTION-TRIGGERED FRAME RATE ADJUSTMENT	2025/04/17
2025/03275	WEARABLE FITNESS TRACKER WITH CUSTOMIZABLE DATA COMPRESSION	2025/04/17
2025/03276	SMART CALENDAR SYNC SYSTEM WITH CONFLICT RESOLUTION ALGORITHMS	2025/04/17
2025/03278	PORTABLE DEVICE CHARGER WITH DYNAMIC LOAD DISTRIBUTION CIRCUITRY	2025/04/17
2025/03279	REAL-TIME VIDEO CALL ENHANCER WITH BACKGROUND NOISE CANCELLATION	2025/04/17
2025/03280	LOW-POWER WI-FI ROUTER WITH ADAPTIVE BANDWIDTH ALLOCATION	2025/04/17
2025/03281	AUTOMATED GROCERY LIST COMPILER WITH BARCODE SCANNING INTEGRATION	2025/04/17
2025/03282	DIGITAL TWIN PLATFORM FOR BRIDGE MAINTENANCE USING IOT AND FINITE ELEMENT ANALYSIS	2025/04/17
2025/03283	CONSTRUCTION PROJECT DELAY PREDICTION USING BAYESIAN NETWORKS AND HISTORICAL DATA	2025/04/17
2025/03284	BIM-INTEGRATED METHOD FOR ENERGY EFFICIENCY ANALYSIS OF BUILDING STRUCTURES	2025/04/17
2025/03285	SMART TRAFFIC MANAGEMENT FOR INTERSECTION OPTIMIZATION USING REINFORCEMENT LEARNING	2025/04/17
2025/03286	TEMPERATURE-REGULATED BEVERAGE CONTAINER WITH PHASE-CHANGE THERMAL MANAGEMENT	2025/04/17
2025/03287	REAL-TIME SEISMIC RESPONSE PREDICTION OF HIGH-RISE STRUCTURES	2025/04/17
2025/03288	SELF-ADJUSTING ERGONOMIC CHAIR WITH A POSTURE CORRECTION MECHANISM	2025/04/17
2025/03289	SMART RETRACTABLE CLOTHES DRYING RACK WITH HUMIDITY SENSING AND AUTO-RETRACT MECHANISM	2025/04/17
2025/03290	MODULAR WALL-MOUNTED FAN WITH DIRECTIONAL AIRFLOW CONTROL	2025/04/17
2025/03291	COMPACT HANDHELD VACUUM CLEANER WITH SELF-CLEANING FILTER MECHANISM	2025/04/17

2025/03292	SELF-ADJUSTING TENSION MECHANISM FOR EXERCISE RE-SISTANCE BANDS	2025/04/17
2025/03293	COMPACT RETRACTABLE CLOTHESLINE WITH INTEGRATED DRYING CLIPS	2025/04/17
2025/03294	PORTABLE AND ADJUSTABLE LAPTOP STAND WITH PASSIVE COOLING CHANNELS	2025/04/17
2025/03295	ADJUSTABLE ERGONOMIC BACKPACK WITH DYNAMIC LOAD DISTRIBUTION MECHANISM	2025/04/17
2025/03296	ADAPTIVE LIGHTING CONTROLLER WITH AMBIENT SENSOR INTEGRATION	2025/04/17
2025/03297	ELECTRONIC WASTE BIN MONITOR WITH FILL LEVEL DETECTION	2025/04/17
2025/03297	ELECTRONIC WASTE BIN MONITOR WITH FILL LEVEL DETECTION	2025/04/17
2025/03298	PERSONAL SAFETY ALARM WITH GPS AND MOTION SENSOR CIRCUITRY	2025/04/17
2025/03299	SMART IRRIGATION CONTROLLER WITH SOIL MOISTURE SENSING	2025/04/17
2025/03300	AIR QUALITY MONITOR WITH EMBEDDED PARTICULATE SENSOR ARRAY	2025/04/17
2025/03301	ELECTRONIC MEDICATION DISPENSER WITH DOSAGE TRACKING AND ALERTS	2025/04/17
2025/03302	SMART MIRROR WITH TOUCH INTERFACE AND ENVIRONMENTAL SENSORS	2025/04/17
2025/03303	PORTABLE TRAFFIC MONITOR WITH VEHICLE DETECTION AND REPORTING	2025/04/17
2025/03304	REFRIGERATOR INVENTORY TRACKER WITH RFID INTEGRATION	2025/04/17
2025/03305	NOISE POLLUTION DETECTOR WITH REAL-TIME AUDIO PROCESSING	2025/04/17
2025/03306	SMART WATER HEATER CONTROLLER WITH USAGE PATTERN RECOGNITION	2025/04/17
2025/03307	ELECTRONIC SLEEP TRACKER WITH VIBRATION-BASED WAKE-UP MECHANISM	2025/04/17
2025/03308	ELECTRONIC PET FEEDER WITH WEIGHT SENSING AND DISPENSING CONTROL	2025/04/17
2025/03309	AUTOMATED WINDOW VENTILATION SYSTEM WITH AIR QUALITY FEEDBACK	2025/04/17
2025/03310	SMART DOORBELL WITH FACIAL RECOGNITION AND AUDIO PROCESSING CIRCUITRY	2025/04/17
2025/03311	PERSONALIZED MUSIC PLAYLIST GENERATOR WITH MOOD-BASED AUDIO PROCESSING	2025/04/17
2025/03312	ASSEMBLY METHOD AND STRUCTURE FOR A STEEL - COLUMN BASE JOINT WITH SEISMIC RESILIENCE	2025/04/17
2025/03318	DROPOUT SURGE ARRESTOR	2025/04/17

2025/03319	SAFE RECYCLABLE LARGE PAINT DRY AND WET GRINDING VISUAL COLOR IDENTIFICATION WORKBENCH	2025/04/17
2025/03321	HUMANIZED L1CAM ANTIBODY-DRUG CONJUGATE	2025/04/17
2025/03336	PREPARATION METHOD OF LONG-ACTING PHOSPHATE FERTILIZER AND APPLICATION THEREOF	2025/04/22
2025/03369	FLUORESCENT ANTIBODY COMPOSITION FOR PREDICTING SLE ACTIVITY LEVEL, KIT AND USE	2025/04/22
2025/03404	A STRUCTURE-FUNCTION IMPROVEMENT METHOD OF LOW-EFFICIENCY TREE PLANTATION BASED ON DATA ANALYSIS	2025/04/23
2025/03431	A CRITICAL CARE DRAINAGE DEVICE AND A DRAINAGE SYSTEM	2025/04/23
2025/03531	ACTIVE-PASSIVE HYBRID VIBRATION REDUCTION PIPING	2025/04/25
2025/03538	BOTTLE DISPENSER	2025/04/25
2025/03545	EMERGENCY ALERTING SYSTEM FOR TRANSMITTING AN ALERT MESSAGE TO USERS THROUGH TV INFRASTRUCTURE	2025/04/25
2025/03561	A DERIVATIVE OF TAMARIND SEED POLYSACCHARIDE AND A PREPARATION PROCESS THEREOF	2025/04/25
2025/03562	MULTI-FUNCTIONAL MERCHANDISE STAND FOR E-COMMERCE LIVESTREAMING	2025/04/25
2025/03563	MOBILE ROBOT NAVIGATION AND MAPPING SYSTEM	2025/04/25
2025/03620	AN APPLICATION FOR SERUM EXOSOME PIRNA	2025/04/29
2025/03624	ATTENUATED AVIBACTERIUM 0; PARAGALLINARUM; STRAIN; AND; CONSTRUCTION; METHOD; AND; USE; THEREOF	2025/04/29
2025/03640	METHOD FOR PREPARING PALIPERIDONE	2025/04/29
2025/03648	AGARICUS BISPORUS CULTURE MATERIAL PREPARED BY MEANS OF FERMENTING CORN STRAW AND DEER DUNG, AND PREPARATION METHOD THEREFOR	2025/04/29
2025/03649	DISTRIBUTION IOT LOW-VOLTAGE INTELLIGENT SWITCH	2025/04/29
2025/03650	DEVICE FOR DOSING AND DISPENSING SOLID ELEMENTS SUCH AS MEDICINE TABLETS	2025/04/29
2025/03652	WIRE CUTTING DEVICE FOR ELECTRONIC CIRCUIT BOARD SOLDERING AND WIRE CUTTING METHOD THEREOF	2025/04/29

2025/03670	ANTI-CD16A ANTIBODY AND APPLICATION THEREOF	2025/04/29
2025/03679	UNDERGROUND MOBILE COOLING ARRANGEMENT AND METHOD OF USING SAME	2025/04/29
2025/03680	EDGE DETECTION-BASED MULTI-SCALE GRID DETECTION METHOD FOR MARINE VEGETATION COVERAGE	2025/04/30
2025/03681	DATA AUTOMATIC ACQUISITION METHOD AND SYSTEM BASED ON STORAGE SWITCHING MATRIX	2025/04/30
2025/03682	MANUFACTURING METHOD OF FLAME-RETARDANT VISCOSE FILAMENT YARN HADA FABRIC	2025/04/30
2025/03683	SIZE COMPOSITION AND PREPARATION METHOD THEREFOR, AND SIZING METHOD FOR VISCOSE FILAMENT YARN	2025/04/30
2025/03684	PRIESTIA SP. JP2-14 AND APPLICATION THEREOF	2025/04/30
2025/03685	ANESTHESIA INDUCTION INHALATION DEVICE WITH ANTI-LEAKAGE STRUCTURE	2025/04/30
2025/03686	DISINFECTION TREATMENT DEVICE FOR IMPROVING DISINFECTION EFFECTIVENESS	2025/04/30
2025/03687	OPTIMIZED SPECIALIZED ANESTHESIA DEVICE	2025/04/30
2025/03688	NON-MOTOR VEHICLE VIOLATION MONITORING METHOD AND SYSTEM BASED ON DEEP LEARNING	2025/04/30
2025/03698	FEEDING DEVICE FOR BEEF CATTLE FARMING	2025/04/30
2025/03700	PAPER SHEET DISCHARGE AND COLLECTION DEVICE AND CIRCULATION-TYPE PAPER SHEET PROCESSING DEVICE	2025/04/30
2025/03707	METHOD FOR DATA COMPRESSION AND ENCRYPTION	2025/04/30
2025/03719	PROTEINS WITH MINIMAL N-TERMINAL INITIATOR METHIONINE	2025/04/30
2025/03747	A PARENTAL CONTROL SYSTEM FOR CHILD PROTECTION FROM HARMFUL DIGITAL CONTENT AND ENHANCE DIGITAL SAFETY	2025/05/02
2025/03748	AN INTEGRATED GENERATIVE AI SYSTEM FOR TEXT, VIDEO, DATA, AND COMPUTER VISION SOLUTIONS	2025/05/02
2025/03749	A SYSTEM FOR WELLNESS MONITORING IN UNDERSERVED COMMUNITIES	2025/05/02
2025/03750	A DIGITAL KNOWLEDGE SHARING SYSTEM FOR WATER-EFFICIENT TECHNIQUES	2025/05/02
2025/03751	A SECURE HOUSEHOLD SERVICES BOOKING SYSTEM	2025/05/02

2025/03752	AN ESP MESH NETWORK AND WI-FI RANGE EXTENDER USING NODEMCU	2025/05/02
2025/03753	AN IOT-BASED WOMEN SAFETY DEVICE	2025/05/02
2025/03754	AN IOT-BASED NIGHT VISION PATROLLING DEVICE FOR ENHANCED SECURITY SURVEILLANCE	2025/05/02
2025/03755	AN AI-POWERED MACHINE LEARNING AND MEDICAL IMAGE ANALYSIS SYSTEM FOR ADVANCED OPHTHALMIC DIAGNOSIS AND TREATMENT	2025/05/02
2025/03756	AN ADVANCED AI-DRIVEN CAMPUS PARKING DETECTION, RESERVATION, AND AUTOMATED ACCESS SYSTEM	2025/05/02
2025/03757	AN AI-POWERED REAL-TIME WHATSAPP SPAM DETECTION BOT SYSTEM USING MACHINE LEARNING AND AUTOMATED ALERTS	2025/05/02
2025/03758	A CUSTOMIZABLE SNEAKER SYSTEM	2025/05/02
2025/03776	HIGH-VOLTAGE SWITCHGEAR MOVING AND STATIONARY CONTACTS ENGAGEMENT DEPTH DETECTION DEVICE	2025/05/05
2025/03778	UPPER LIMB JOINT EXERCISING DEVICE FOR BEDRIDDEN PATIENT	2025/05/05
2025/03779	AN AUTOMATED ANOMALY DETECTION AND ADAPTIVE PID CONTROL SYSTEM FOR TEMPERATURE REGULATION IN CHEMICAL REACTOR	2025/05/05
2025/03780	AN IOT ENABLED TWO-FACTOR AUTHENTICATION (2FA) SYSTEM FOR ENHANCED WEBSITE SECURITY FROM CYBER THREATS	2025/05/05
2025/03781	AN IOT AND IMAGE PROCESSING BASED REAL-TIME POTHOLE DETECTION AND ALERTS SYSTEM FOR ROAD SAFETY	2025/05/05
2025/03782	A PELTIER TECHNOLOGY BASED BATTERY COOLING AND HEATING SYSTEM FOR ELECTRIC VEHICLES	2025/05/05
2025/03783	A DEEP LEARNING BASED COMPREHENSIVE ROAD QUALITY ASSESSMENT SYSTEM FOR ENSURING ROAD SAFETY	2025/05/05
2025/03784	A SMART AND SECURE RETAIL SHOPPING AUTOMATION SYSTEM FOR THEFT PREVENTION AND INVENTORY MANAGEMENT	2025/05/05
2025/03785	A CLASSIFICATION SYSTEM WITH TRIANGULAR PATTERN RECOGNITION	2025/05/05
2025/03786	AN IOT BASED SMART COASTER SYSTEM WITH INTELLIGENT TEMPERATURE CONTROL FOR ENHANCING BEVERAGE EXPERIENCE	2025/05/05

2025/03788	AN INTEGRATED AI SYSTEM FOR MEDICAL REPORT ANALYSIS AND MULTILINGUAL DOCUMENTATION	2025/05/05
2025/03789	AN IMAGING AND MACHINE LEARNING BASED SYSTEM FOR ADVANCED CROP DISEASE DETECTION	2025/05/05
2025/03790	AN AI-DRIVEN ANALYTICS BASED EXPENSE TRACKER SYSTEM FOR STREAMLINING FINANCIAL MANAGEMENT	2025/05/05
2025/03791	AN AI BASED FINANCIAL EDUCATION AND MANAGEMENT SYSTEM FOR STUDENTS	2025/05/05
2025/03792	AN AI DRIVEN MOOD BASED MEAL RECOMMENDATION SYSTEM FOR CAFETERIAS AND RESTAURANTS	2025/05/05
2025/03793	A MACHINE LEARNING AND SENSORS BASED SMART REFEREEING AND REAL-TIME STRATEGY ASSISTANCE SYSTEM FOR UNDERWATER HOCKEY	2025/05/05
2025/03794	AN IMAGE RECOGNITION AND GAS DETECTION SENSOR BASED SMART TOMATO SORTING SYSTEM	2025/05/05
2025/03795	A WEARABLE SAFETY SYSTEM WITH MACHINE LEARNING (ML) INTEGRATION FOR REAL TIME THREAT DETECTION AND ALERT SYSTEM	2025/05/05
2025/03796	AN AI BASED PERSONALIZED DIET AND WORKOUT MANAGEMENT SYSTEM WITH INTEGRATED CHATBOT	2025/05/05
2025/03797	A HOME AUTOMATION SYSTEM WITH CLOUD INTEGRATION, VOICE CONTROL AND BUZZER FEEDBACK	2025/05/05
2025/03798	AN AI-DRIVEN CANDIDATE EVALUATION SYSTEM WITH SMART FILTERING AND ENHANCED INSIGHTS FOR STREAMLINING HIRING PROCESS	2025/05/05
2025/03824	MORTISE-AND-TENON THREE-DIMENSIONAL PRINTED CONCRETE FORMWORK AND MANUFACTURING DEVICE	2025/05/06
2025/03825	SELF-ASSEMBLY TYPE DISASSEMBLY AUXILIARY DEVICE FOR BUTT BOLT	2025/05/06
2025/03832	PISTON TYPE GAS POWER WELL ENERGY STORAGE AND POWER GENERATION SYSTEM AND ENERGY STORAGE AND POWER GENERATION METHOD	2025/05/06
2025/05382	ARTICLE OF HEADGEAR, MOUNTING CLIPS, AND ACCESSORIES	2025/06/24
2025/06793	METHOD FOR LEACHING SEPARATION OF MIXED RARE EARTH CONCENTRATE	2025/08/14
2025/07028	PRECURSOR STABILISATION PROCESS	2025/08/22

2025/07067	INTELLIGENT CONTROL SYSTEM AND METHOD FOR MINE VENTILATION AUTOMATION	2025/08/25
2025/07213	SMCP POLYCLONAL ANTIBODY, PREPARATION METHOD THEREFOR AND USE THEREOF	2025/08/28
2025/07957	BATTERY CAPACITY ANALYSIS AND PREDICTION METHOD AND SYSTEM FOR BATTERY	2025/09/17
2025/07984	FRICTION STIR WELDING DEVICE AND WELDING METHOD THEREOF	2025/09/18
2025/08007	NOISE-REDUCED MOTOR	2025/09/18
2025/08095	NOISE-REDUCED JIGSAW MOTOR	2025/09/22
2025/08764	COUPLING AND CIRCUMFERENTIAL GROOVE SHAPE	2025/10/17
2025/09245	AN ELECTRONIC PUNCHING BAG APPARATUS	2025/10/31
2025/09247	A SYSTEM FOR GAMIFYING A PUNCHING BAG TRAINING SESSION	2025/10/31
2025/09276	BRAIN COMPUTER SIGNAL SECURITY SYSTEM AND USE METHOD THEREOF	2025/11/03
2025/09280	FEDERATED LEARNING SYSTEM, FEDERATED LEARNING METHOD, AND FEDERATED LEARNING DEVICE	2025/11/03
2025/09281	METHOD FOR PROCESSING MULTI-SCENARIO HETEROGENEOUS DATA	2025/11/03
2025/09321	WATERPROOF GRADE TEST EQUIPMENT FOR AVIATION OBSTRUCTION LIGHT	2025/11/04
2025/09530	A METHOD FOR REDUCING SODIUM CYANIDE CONSUMPTION IN COPPER-BEARING GOLD ORES	2025/11/11
2025/09662	COAL MINE GAS INSPECTION METHOD	2025/11/13
2025/09663	COAL MINE GAS INSPECTION TASK GENERATION AND DISTRIBUTION METHOD AND APPARATUS	2025/11/13
2025/09760	HANDHELD CHINESE PRICKLY ASH PICKING MACHINE	2025/11/17
2025/09766	A SYSTEM FOR ENABLING ARTIFICIAL CULTIVATION OF AZOLLA AND A METHOD THEREOF	2025/11/17
2025/09853	MULTI-POSITION BED SEPARATION MONITORING DEVICE FOR COAL MINE OVERLYING STRATA	2025/11/19
2025/10001	MEASUREMENT METHOD BASED ON MULTI-SENSOR ARRAY AND FOR CROSS-SECTIONAL SEDIMENT DISCHARGE IN OPEN CHANNEL	2025/11/24

DESIGNS

Advertisement List for December 2025

Number of Advertised Designs: 100

Application Number	Design Articles	Filing Date
A2020/01302	COFFEE MAKERS	2020/09/29
A2020/01303	COFFEE MAKERS	2020/09/29
A2024/00534	SENGCA ENGINE	2024/06/07
A2024/00800	REAR BUMPER FOR A VEHICLE	2024/08/12
A2024/01075	MOVEMENT FOR CLOCKS AND WATCHES	2024/10/16
A2025/00118	Hanging Unit of an Air Conditioner	2025/01/30
A2025/00185	ANTI-SLIP DEVICE FOR STAIRS	2025/02/20
A2025/00195	SCREEN DISPLAYS AND ICONS	2025/02/21
A2025/00196	SCREEN DISPLAYS AND ICONS	2025/02/21
A2025/00197	SCREEN DISPLAYS AND ICONS	2025/02/21
A2025/00199	SCREEN DISPLAYS AND ICONS	2025/02/21
A2025/00200	SCREEN DISPLAYS AND ICONS	2025/02/21
A2025/00201	SCREEN DISPLAYS AND ICONS	2025/02/21
A2025/00202	SCREEN DISPLAYS AND ICONS	2025/02/21
A2025/00203	SCREEN DISPLAYS AND ICONS	2025/02/21
A2025/00214	CONTAINER	2025/02/24
A2025/00258	Set of Rollers	2025/03/03
A2025/00262	MOBILE PHONES	2025/03/04
A2025/00284	GROUNDING DEVICE	2025/03/10
A2025/00286	GROUNDING DEVICE	2025/03/10
A2025/00289	BOTTLE CRATE	2025/03/11
A2025/00295	Case	2025/03/12
A2025/00301	Box Connector	2025/03/14
A2025/00305	A Disc Element for an Insert for a Run Flat Tyre	2025/03/17
A2025/00307	A Mobile Fire Extinguisher Station	2025/03/17
A2025/00309	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00310	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00311	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00312	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00313	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20

Application Number	Design Articles	Filing Date
A2025/00314	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00315	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00316	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00317	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00318	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00319	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00320	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00321	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00322	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00323	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00324	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00325	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00326	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00327	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00328	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00329	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00330	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00331	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00332	DISPLAY SCREENS OR PORTIONS THEREOF WITH USER INTERFACES	2025/03/20
A2025/00335	Power Unit for an Electric Lawn Mower	2025/03/24
A2025/00336	FLANGES	2025/03/25
A2025/00337	FLANGES	2025/03/25
A2025/00338	FLANGES	2025/03/25
A2025/00339	FLANGES	2025/03/25
A2025/00340	FLANGES	2025/03/25
A2025/00341	PUMP MOUNTING FLANGES	2025/03/25
A2025/00342	FLANGES	2025/03/25
A2025/00343	FLANGES	2025/03/25
A2025/00349	Footwears	2025/03/28

Application Number	Design Articles	Filing Date
A2025/00350	Footwears	2025/03/28
A2025/00353	Band	2025/03/31
A2025/00354	Earphone	2025/03/31
A2025/00355	Case	2025/03/31
A2025/00358	COFFEE MACHINE	2025/04/03
A2025/00359	COFFEE MACHINE	2025/04/03
A2025/00360	COFFEE MACHINE	2025/04/03
A2025/00361	COFFEE MACHINE	2025/04/03
A2025/00399	AUTOMOBILE	2025/04/10
A2025/00405	A CLOSURE OPENING TOOL FOR A RECEPTACLE	2025/04/11
A2025/00408	FLOOR & WALL TILES	2025/04/14
A2025/00435	HEADWEAR	2025/04/22
A2025/01146	PACKAGING BAG	2025/09/18
A2025/01244	A SERVING PADDLE	2025/10/20
A2025/01247	A SERVING PADDLE	2025/10/20
F2024/00247	TRAILER	2024/03/05
F2025/00186	ANTI-SLIP DEVICE FOR STAIRS	2025/02/20
F2025/00215	CONTAINER	2025/02/24
F2025/00254	Set of Rollers	2025/03/03
F2025/00255	Tapered Roller	2025/03/03
F2025/00256	Flat Centred Roller	2025/03/03
F2025/00257	Roller	2025/03/03
F2025/00271	A MOP	2025/03/05
F2025/00285	GROUNDING DEVICE	2025/03/10
F2025/00290	BOTTLE CRATE	2025/03/11
F2025/00297	FASCIA WITH INTEGRAL GUTTER	2025/03/13
F2025/00300	Box Connector	2025/03/14
F2025/00302	Box Connector Blank	2025/03/14
F2025/00306	A Disc Element for an Insert for a Run Flat Tyre	2025/03/17
F2025/00347	SEALABLE CONNECTOR	2025/03/26
F2025/00348	CONTAINERS	2025/03/26
F2025/00351	Bearing boxes	2025/03/28
F2025/00356	AIR FILTER ASSEMBLY	2025/04/01
F2025/00406	A CLOSURE OPENING TOOL FOR A RECEPTACLE	2025/04/11
F2025/00416	FLOORING SYSTEM	2025/04/14
F2025/00436	HEADWEAR	2025/04/22
F2025/01242	A SERVING PADDLE	2025/10/20

Application Number	Design Articles	Filing Date
F2025/01243	A SERVING PADDLE	2025/10/20
F2025/01245	A SERVING PADDLE	2025/10/20
F2025/01248	A SERVING PADDLE	2025/10/20
F2025/01249	A SERVING PADDLE	2025/10/20

OTHER OFFICE NOTICES

NOTICE

COMPANIES AND INTELLECTUAL PROPERTY COMMISSION (CIPC)



Companies and Intellectual
Property Commission

a member of the dtic group

Taking into consideration that CIPC official office days are Mondays to Fridays and does not include week-ends or public holidays, notice is hereby given in terms of and for purposes of the Acts mentioned in the Schedule below, that CIPC will be closed to the public from **10h00 on Wednesday 24 December 2025 and will re-open on Monday 5 January 2026.**

The CIPC Offices at –

- a) the Department of Trade, Industry and Competition (the dtic) (77 Meintjies Street, Block F – Entfufukweni) in Sunnyside, Pretoria;
 - b) 1st floor, Office 103, Sancardia Building, 541 Madiba Street, Arcadia, Pretoria;
 - c) Norton Rose House No 8, Shop Number 3, Riebeek Street, Thibault Square, Cape Town; and
 - d) CIPC Kiosk in Pavilion Shopping Centre in Jack Martens Drive in Westville,
- will re-open at 08h00 on Monday 5 January 2026.

The lodgment of documents and services of legal documents will be accepted on Tuesday 23 December 2025 until 15h30.

The days from Wednesday 24 December 2025 up to and including Friday 2 January 2026 will be regarded as *dies non* for purposes of the stated Acts.

CIPC offers different lodgment / filing methods for certain services to its customers. During this period, services processed by automated means will continue to be processed while those services which require back-office intervention / finalisation e.g. services which require scanned documents to be e-mailed to dedicated e-mail addresses or uploaded via electronic platforms e.g. New E-Services, will only resume from Monday 5 January 2026.

Please also take note that with regards to name reservations, all reserved names that would have lapsed between Wednesday 24 December 2025 up to and including Friday 2 January 2026, will now have their reservation dates moved forward to Monday 5 January 2026 and will, therefore, only elapse on that date.

SCHEDULE

Trade Marks Act, 1993
 Patents Act, 1978
 Design Act, 1993
 Copyright Act, 1978
 Companies Act, 2008
 Close Corporations Act, 1984
 Co-operatives Act, 2005
 Registration of Copyright in Cinematograph Film Act, 1977

Kind regards.

Rory Voller
 Commissioner: CIPC