# PATENT JOURNAL

## INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

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# PATENT JOURNAL

## INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

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## TABLE OF CONTENTS

**2. PATENTS** ..... 4
APPLICATIONS FOR PATENTS ..... 5
ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1) ..... 76
CHANGE OF NAME IN TERMS OF REGULATION 39 ..... 77
PATENT LICENSES IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 ..... 78
PATENT APPLICATIONS ABANDONED OR WITHDRAWN ..... 78
APPLICATION FOR RESTORATION OF A LAPSED PATENT ..... 78
VOLUNTARY SURRENDER OF A PATENT UNDER SECTION 64 (1), REGULATION 67 OF THE ACT ..... 79
APPLICATIONS FOR CORRECTION IN TERMS OF SEVTION 50 ..... 79
APPLICATIONS TO AMEND SPECIFICATION ..... 80
INSPECTION OF SPECIFICATIONS ..... 82
HYPOTHECATIONS ..... 369
JUDGMENTS ..... 369
OFFICE PRACTICE NOTICES ..... 369
**3. DESIGNS** ..... 370
APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993 ..... 371
RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT ..... 377
VOLUNTARY SURRENDER OF A DESIGN IN TERMS OF SECTION 34 REGULATION 42(4) OF THE DESIGN ACT ..... 378
APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION ..... 378
NOTICE OF REGISTRATION OF DESIGNS ..... 380
HYPOTHECATIONS ..... 446
JUDGMENTS ..... 446
OFFICE PRACTISE NOTICES ..... 446
**4. COPYRIGHT** ..... 447
NOTICES OF ACCEPTANCE ..... 448
HYPOTHECATIONS ..... 449
JUDGMENTS ..... 449
OFFICE PRACTICE NOTICES ..... 449
**5. CORRECTION NOTICES** ..... 450
TRADE MARK CORRECTION NOTICES ..... 451
PATENT CORRECTION NOTICES ..... 451
DESIGNS CORRECTION NOTICES ..... 452
COPYRIGHT CORRECTION NOTICES ..... 452
**PATENTS** ..... 453
**DESIGNS** ..... 491

# 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 2025/07/24 -

2025/06324 ~ Complete ~54:ANTI-CORROSION TAPE COMPRISING AT LEAST ONE WOVEN FABRIC ~71:DENSO-HOLDING GMBH & CO., Felderstraße 24, Germany ~72: KAISER, Thomas, Markus~ 33:DE ~31:10 2023 102 631.3 ~32:02/02/2023

2025/06263 ~ Provisional ~54:APEC WELLBEING MANAGER ~71:Kuhle Tyembile, 109 Wierda Rd E, South Africa ~72: Kuhle Tyembile~

2025/06270 ~ Complete ~54:TRADITIONAL CHINESE PATENT MEDICINE FOR PREVENTING COLD VIRUS AND PREPARATION METHOD FOR ~71:Hebei Keyi Hospital Management Co., Ltd, No.3-113, Ground-Floor Shop, North Zone, Imagination International Building, No.169 Zhufeng Street, High-tech Zone, Shijiazhuang City, Hebei Province, People's Republic of China ~72: Lei, Yongquan~ 33:CN ~31:2025110012624 ~32:21/07/2025

2025/06273 ~ Complete ~54:CONCAVE COVER PLATES FOR IMPROVING OPERATIONAL PERFORMANCE IN A COMBINE HARVESTER ~71:THUNDERSTRUCK SALES & MARKETING LTD., 201 South Railway, Winkler, Canada ~72: MATUSZEWSKI, Jeremy;RUWOLDT, Robert~ 33:CA ~31:3199377 ~32:11/05/2023

2025/06278 ~ Complete ~54:PROCESSES FOR REDUCING ENVIRONMENTAL AVAILABILITY OF ENVIRONMENTAL POLLUTANTS ~71:Albemarle Corporation, 4250 Congress Street, Suite 900, CHARLOTTE 28209, NC, USA, United States of America ~72: GE, Zhongxin;PINGREE, Kim Sehye;ZHANG, Zhaorong~ 33:US ~31:63/447,783 ~32:23/02/2023

2025/06275 ~ Complete ~54:COFFEE GRINDING MACHINE ~71:La Marzocco S.r.l., Via La Torre, 14/H, SCARPERIA E SAN PIERO (FI) 50038, ITALY, Italy ~72: BECCASTRINI, Marco;DONNINI, Mario;GATTI, Riccardo~ 33:IT ~31:102022000027273 ~32:30/12/2022

2025/06279 ~ Complete ~54:NEEDLE GUARD ~71:POLY MEDICURE LIMITED, Plot No. 105, Sector 59, HSIIDC Industrial Area, Faridabad,, India ~72: ARHAM BAID;RISHI BAID~ 33:IN ~31:202311006443 ~32:01/02/2023

2025/06268 ~ Complete ~54:SYSTEM AND METHOD FOR MONITORING SOIL AND WATER CONSERVATION ~71:HOHAI UNIVERSITY, No.1 Xikang Road, Gulou District, Nanjing City, Jiangsu Province, 210024, People's Republic of China ~72: Daming Yang;Dongli She;Hongde Wang;Xiaoqin Sun;Xuan Huang~ 33:CN ~31:2025102837108 ~32:11/03/2025

2025/06276 ~ Complete ~54:ANTI-BDCA2 ANTIBODY-DRUG CONJUGATE AND USE THEREOF ~71:Duality Biologics (Shanghai) Co., Ltd., 1106, 868 Yinghua Road, Pudong New Area, SHANGHAI 201204, CHINA (P.R.C.), People's Republic of China ~72: HUA, Haiqing;LI, Bing;LI, Jian;LI, Xi;ZHANG, Yu;ZHU, Zhongyuan~ 33:CN ~31:202211697892.6 ~32:28/12/2022

2025/06281 ~ Provisional ~54:PROTECT ME MOBILE SAFETY APP FOR EMERGENCY ALERT AND LOCATION TRACKING ~71:Nosipho Hlengani, 8 ginko barbit street, Crystal park, Crystal park, Crystal park, South Africa ~72: Nosipho Hlengani~

2025/06267 ~ Complete ~54:METHOD AND SYSTEM FOR PREDICTING BATTERY LIFE OF NEW ENERGY VEHICLES BASED ON MACHINE LEARNING ~71:XINYU UNIVERSITY, 2666 Sunshine Avenue, High-tech Zone, Xinyu City, Jiangxi Province, People's Republic of China ~72: HUANG Yulong;LI Wei;LIU Zhe;ZHAI Diguo~

2025/06265 ~ Provisional ~54:LIQUID DISPENSING DEVICE ~71:LANCE RICHARD ERNEST PAYET, 76 Mavelock Road, Greenwood Park, Durban, KwaZulu Natal, 4051, South Africa ~72: LANCE RICHARD ERNEST PAYET~

2025/06269 ~ Complete ~54:METHOD FOR DRUG REPOSITIONING BASED ON TOPOLOGICAL AND BIOCHEMICAL INFORMATION ~71:XINYU UNIVERSITY, 2666 Sunshine Avenue, High-tech Zone, Xinyu City, Jiangxi Province, People's Republic of China ~72: HUANG Jianqiu;HUANG Yulong;LI Shuliang;LIU Kai;WU Guangsheng~ 33:CN ~31:2024113374726 ~32:25/09/2024

2025/06271 ~ Complete ~54:RECYCLED CONCRETE AGGREGATES CARBONATION TREATMENT ~71:Hawkins Construction Company, 2516 Deer Park Blvd., OMAHA 68105 , NE, USA, United States of America;NUtech Ventures, 2021 Transformation Drive, Suite 2220, LINCOLN 68508 , NE, USA, United States of America ~72: BALL, Jim;HARPER, Nate;HAWKINS, Chris;HU, Jiong;KIM, Seunghee;MAMIROV, Miras;ZADEH, Amin Hosseini~ 33:US ~31:63/304,184 ~32:28/01/2022

2025/06274 ~ Complete ~54:METHODS AND SYSTEMS FOR CLASSIFICATION AND RECOVERY ~71:Somerset International Finance Designated Activity Company, 70 Sir John Rogerson’s Quay, Ireland ~72: Fisher, II, James C.;GRAHAM, James;ORR, Geoff;OSBORNE, David~ 33:US ~31:63/482,185 ~32:30/01/2023

2025/06264 ~ Provisional ~54:AN AUTOMATED FUEL MONITORING & DETECTION SYSTEM ~71:CHOW, CHRISTOPHER KAI CHING, Unit 10A, Crystal Glades, Elsie Street, Radiokop, South Africa ~72: CHOW, CHRISTOPHER KAI CHING~

2025/06266 ~ Complete ~54:COMPUTER-IMPLEMENTED VISUAL QUERY MATCHING METHODS, AND SYSTEMS FOR IMPLEMENTING THEREOF ~71:TANAR CORP., 18 King Street East Suite, Canada ~72: KASHYAP, Arun~

2025/06272 ~ Complete ~54:TRACE ELEMENT COMPOSITION, PREPARATION METHOD THEREFOR, AND USE THEREOF ~71:BEIJING ZANGWEIXINKANG PHARMACEUTICAL R&D CO., LTD., Room 101 (1/F-5/F) and Room 301 (3/F), Building 5, Yard 8, Heying Road Industrial Base, East Zone Changping Science and Technology Park, People's Republic of China ~72: HU, Jun;LIU, Feng;LU, Licun;ZHANG, Xue;ZHANG, Yong~ 33:CN ~31:202310000643.5 ~32:03/01/2023

2025/06313 ~ Complete ~54:REMOTE-MONITORING ENABLED DEWAR FLASK ~71:BEYOND WIRELESS TECHNOLOGIES (PTY) LTD, Building 13, The Woodlands Office Park, 20 Woodlands Drive, Woodlands, South Africa ~72: LESTER, Ian;RACHELSON, Dion~ 33:ZA ~31:2024/06402 ~32:21/08/2024

2025/06277 ~ Complete ~54:HERBICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: FELLMANN, Julia;WATKINS, Melanie Jayne~ 33:EP ~31:23158618.1 ~32:24/02/2023;33:EP ~31:23207284.3 ~32:01/11/2023

. - APPLIED ON 2025/07/25 -

2025/06302 ~ Complete ~54:LIPID COMPOUND AND LIPID NANOPARTICLE COMPOSITION ~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 215000 , JIANGSU, CHINA (P.R.C.), People's Republic of China;RinuaGene International HK Limited, Suite 603, 6/F., Laws Commercial Plaza, 788 Cheung Sha Wan Road, KOWLOON 999077, HONG KONG, CHINA (P.R.C.), People's Republic of China ~72: CEN, Shan;DONG, Yijie;LV, Kai;YU, Zhenlei~ 33:IB ~31:2022/143065 ~32:28/12/2022;33:IB ~31:2023/124515 ~32:13/10/2023;33:CN ~31:202311790946.8 ~32:25/12/2023

2025/06312 ~ Provisional ~54:PULSE PARTY ~71:SAKHILE HOPEWELL NTULI, 1351 EXT 8 EMPUMELELWENI, South Africa ~72: SAKHILE HOPEWELL NTULI~

2025/06298 ~ Complete ~54:IMPROVING THE ANGLE DISCRETIZATION IN DECODER SIDE INTRA MODE DERIVATION ~71:INTERDIGITAL CE PATENT HOLDINGS, SAS, 3 rue du Colonel Moll, 75017, Paris, France ~72: FABRICE LE LEANNEC;FRANCK GALPIN;PHILIPPE BORDES;THIERRY DUMAS~ 33:EP ~31:21306345.6 ~32:28/09/2021

2025/06293 ~ Complete ~54:SYSTEM FOR MINING MARKERS OF GASTROINTESTINAL TUMOR LIVER METASTASIS BASED ON MULTI-OMICS DATA FUSION ~71:Jiangsu Province (Suqian) Hospital, No 120 Suzhi Road, Sucheng District, Suqian City, Jiangsu Province, 223800, People's Republic of China;The First People's Hospital of Zhenjiang City, No 8 Dianli Road, Runzhou District, Zhenjiang City, Jiangsu Province, 212002, People's Republic of China ~72: Changfeng Man;Dandan Gong;Xiaoyan Wang;Yong Pu;Yu Fan;Zhenwei Mao~

2025/06294 ~ Complete ~54:PRESSURE RING ASSEMBLY WITH WEDGE CONNECTOR ~71:METIX (PROPRIETARY) LIMITED, 204 Rivonia Road, Morningside, South Africa ~72: LOTTER, Gabriel Jacobus;VENTER, Jacques~ 33:NL ~31:2038665 ~32:19/09/2024

2025/06301 ~ Complete ~54:N-TYPE CARBON-BASED SEMICONDUCTOR SUBSTRATES AND METHODS OF PREPARING SAME ~71:ZERO RESISTANCE (PTY) LTD, 17 Midas Avenue, Olympus, Pretoria, South Africa ~72: BADENHORST, Jacques Christiaan;CLOETE, Andrè Christiaan;MYBURGH, Willem Tobias~ 33:US ~31:63/484075 ~32:09/02/2023

2025/06306 ~ Complete ~54:NOVEL PHENYLQUINOLONE COMPOUND HAVING ANTIBACTERIAL AND ANTICANCER FUNCTIONS, AND PREPARATION THEREOF ~71:AlphaMol Science Ltd (Shanghai), #665 Zhangjiang Road, Third Floor, Shanghai Pilot Free Trade Zone, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: LI, Haijian;PAN, Qing;QIN, Taisheng;YUAN, Shuguang~

2025/06310 ~ Complete ~54:METHOD AND APPARATUS IN NODE USED FOR WIRELESS COMMUNICATION ~71:SHANGHAI LANGBO COMMUNICATION TECHNOLOGY COMPANY LIMITED, Room A2117, Building B, No. 555, DongChuan Road Minhang District, Shanghai 200240, People's Republic of China ~72: LU WU;XIAOBO ZHANG~ 33:CN ~31:202211673650.3 ~32:26/12/2022

2025/06284 ~ Provisional ~54:AN ANIMAL FEED AND ASSOCIATED USE AND METHOD ~71:HUMAN, Derick, Farm Klipfontein (R35), BETHAL 2310, North West Province, SOUTH AFRICA, South Africa;HUMAN, Frederick Theunis, Farm Klipfontein (R35), BETHAL 2310, North West Province, SOUTH AFRICA, South Africa ~72: HUMAN, Derick;HUMAN, Frederick Theunis~

2025/06287 ~ Provisional ~54:INFLATABLE TEXTILE SHELTER ~71:GRAHAM, Scott Allen, 23318 NW Church Road, United States of America ~72: GRAHAM, Scott Allen~

2025/06288 ~ Complete ~54:CLOSED HEAT TRANSFER OIL SYSTEM FOR GREEN ANODE ~71:Central South University, No. 932, Lushan South Road, Changsha City, Hunan Province, 410083, People's Republic of

China;Shaanxi Nonferrous Yulin New Materials Co., Ltd, Yulin New Materials Nonferrous Economy Circular Industrial Park, Jinjitan Town, Yuyang District, Yulin City, Shaanxi Province, 719099, People's Republic of China ~72: CHEN, Wei;CHEN, Xu;LI, Hesong;SONG, Daqing;TU, Fubing;WANG, Jianjun;YANG, Guoping;YANG, Shilin;ZHANG, Yongbi~

2025/06292 ~ Complete ~54:STEAM TEMPERATURE AND PRESSURE REDUCTION SYSTEM FOR GREEN ANODE ASPHALT HEAT INSULATION ~71:Central South University, No. 932, Lushan South Road, Changsha City, Hunan Province, 410083, People's Republic of China;Shaanxi Nonferrous Yulin New Materials Co., Ltd, Yulin New Materials Nonferrous Economy Circular Industrial Park, Jinjitan Town, Yuyang District, Yulin City, Shaanxi Province, 719099, People's Republic of China ~72: CHEN, Wei;CHEN, Xu;LI, Hesong;SONG, Daqing;TU, Fubing;WANG, Jianjun;ZHANG, Yongbi~

2025/06297 ~ Complete ~54:DEVICE, SYSTEM, AND METHOD FOR PASSIVE COLLECTION OF ATMOSPHERIC CARBON DIOXIDE ~71:Arizona Board of Regents on behalf of Arizona State University, SkySong, 1475 N. Scottsdale Rd., Suite 200, SCOTTSDALE 85257, AZ, USA, United States of America ~72: CHOODAMANI, Venkatram;KEDIA, Shreyans;LACKNER, Klaus;PAGE, Robert~ 33:US ~31:62/752,319 ~32:29/10/2018;33:US ~31:62/828,367 ~32:02/04/2019

2025/06300 ~ Complete ~54:STRENGTHENING CONSTRUCTION METHOD FOR RENOVATED FLOOR OF OLD BUILDING ~71:CHINA CONSTRUCTION SEVENTH ENGINEERING BUREAU DECORATION ENGINEERING CO., LTD., 2nd Floor, 19-3 Wensi Street, Kaixuan Road Community, Xiliuhu Subdistrict, Zhongyuan District, Zhengzhou, Henan, 450000, People's Republic of China ~72: HU, Huihui;LIU, Huadong;WANG, Caifeng;WANG, Litao;WANG, Ran;WU, Dongchang;ZHANG, Liwei;ZHAO, Yongbo~ 33:CN ~31:202510379802.6 ~32:28/03/2025

2025/06308 ~ Complete ~54:CRYSTALLINE FORM OF DEURUXOLITINIB ~71:SUN PHARMACEUTICAL INDUSTRIES, INC., 2 Independence Way, United States of America ~72: WIEDEMANN, Sean~ 33:US ~31:63/636,516 ~32:19/04/2024;33:US ~31:18/661,225 ~32:10/05/2024

2025/06307 ~ Complete ~54:CRYSTALLINE FORMS OF NLRP3 INFLAMMASOME INHIBITORS, CHEMICAL PROCESSES AND CHEMICAL COMPOUNDS ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden;Mitsubishi Tanabe Pharma Corporation, 3-2-10, Dosho-machi, Chuo-ku, OSAKA-SHI 5418505, OSAKA, JAPAN, Japan ~72: BREEN, Christopher;FANG, Yuanqing;FUCHIGAMI, Ryuichi;KARLSSON, Staffan;LEUSER, Helena Bernadette;PITHANI, Venkata Subhash;RUSSELL, Mary Grace~ 33:US ~31:63/477,516 ~32:28/12/2022

2025/06282 ~ Provisional ~54:SSMART RESIN BOLT 2.0 SELF CHARGING INJECTION BOLT WITH INTEGRATED MONITORING SYSTEM ~71:henry juan dobson, 1STE AVE DOORNFONTEIN 7, South Africa ~72: henry juan dobson~

2025/06289 ~ Complete ~54:CHINESE MEDICINE COMPOSITION FOR BONE SETTING AND WOUND HEALING AND PREPARATION METHOD THEREOF ~71:Shenghua Zhou, No. 15 Shangmatou Street, Shidi Town, Xiushan Tujia and Miao Autonomous County, Chongqing, People's Republic of China;Shuming Zhou, No. 15 Shangmatou Street, Shidi Town, Xiushan Tujia and Miao Autonomous County, Chongqing, People's Republic of China ~72: Shenghua Zhou;Shuming Zhou~

2025/06285 ~ Provisional ~54:CABLE JOINT ~71:TERRAPID TECHNOLOGIES (PTY) LTD, 13 Riverside Estate, 497-JQ, Jukskeidrif Road, South Africa ~72: ATKINS, David Seagrave~

2025/06286 ~ Provisional ~54:SYSTEM AND METHOD FOR DISTRIBUTED REAL-TIME SERVICE ORCHESTRATION ~71:Anesu Nyakudjga, Bahari Lifestyle Apartments, 29 Copacabana Blvd, Heritage Park, Cape Town, Western Cape, 7130, South Africa ~72: Anesu Nyakudjga;Lindokuhle Felicity Rajuli~

2025/06304 ~ Complete ~54:VHH ANTI-PROTAC ANTIBODIES AND COMPLEXES ~71:Merck Patent GmbH, Frankfurter Strasse 250, DARMSTADT 64293 , GERMANY, Germany ~72: EVERS, Andreas;JAEGER, Sebastian;KOENNING, Doreen;RASCHE, Nicolas;RIEKER, Marcel;SCHNEIDER, Hendrik;SCHROETER, Christian;YANAKIEVA , Desislava~ 33:EP ~31:22216801.5 ~32:27/12/2022

2025/06296 ~ Complete ~54:ANNULOPLASTY AND TISSUE ANCHOR TECHNOLOGIES ~71:Edwards Lifesciences Innovation (Israel) Ltd., 17 HaTochen St., Granit Campus, Caesarea Business Park, CAESAREA 3079892, ISRAEL, Israel ~72: BENSHAHAR, Tal;BRAUON, Haim;COHEN, Or;GALON, Aviv;HALABI, Ido;HERMAN, Yaron;KASHER, Yuval;PEER, Amit;PLUT, Roman;SHARON, Assaf;SHEPS, Tal;SHOHAM, Tomer;TENNENBAUM, Gad~ 33:US ~31:62/927,624 ~32:29/10/2019;33:US ~31:62/949,392 ~32:17/12/2019

2025/06299 ~ Complete ~54:MELTING APPARATUS AND METHOD FOR ULTRA-HIGH PURITY METALLIC GLASS INGOT ~71:HEBEI UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 26, Yuxiang Street, Hebei, 050018, Shijiazhuang, People's Republic of China ~72: HAN,Baochen;LI,Yaqiang;LIU,Dan;MA,Dongxiao;SUN,Xiaoyi;WANG,Xuyang~ 33:CN ~31:202411008395.X ~32:26/07/2024

2025/06291 ~ Complete ~54:METHOD FOR CALCULATING FRACTURE DENSITY DATA VOLUME ~71:Chengdu Caledon Oil & Gas Technology Development Co., Ltd, Room 2106, 21F, Building 1, No. 88, Jiaozi Avenue, Chengdu Hi-tech Zone, China (Sichuan) Pilot Free Trade Zone, Chengdu, Sichuan Province, People's Republic of China;Chongqing University of Science and Technology, No. 20, East University Town Road, Shapingba District, Chongqing, 401331, People's Republic of China ~72: DUAN, Xingming;LIU, Jun;QI, Zhenqian;WANG, Meng;YU, Xinan;ZHANG, Chi~ 33:CN ~31:2024119105352 ~32:24/12/2024

2025/06309 ~ Complete ~54:ANTI-JAMMING SOFT UPPER-SEAL GLOBE VALVE FOR CRYSTALLINE SILICON PRODUCTION REFRIGERATION EQUIPMENT ~71:CHANGZHOU AMG REFRIGERATION EQUIPMENT CO., LTD., Industrial Park Of Furong, Economic Development Zone, Changzhou, Jiangsu 213118, People's Republic of China ~72: DANWEN XU;MINJIE ZHOU;YANZHANG XU~ 33:CN ~31:202510514590.8 ~32:23/04/2025

2025/06290 ~ Complete ~54:THREE-DIMENSIONAL PRINTED PERSONALIZED METAL FIXATION PLATE FOR REPAIRING LUMBAR SPONDYLOLYSIS AND PREPARATION METHOD THEREOF ~71:Quzhou People's Hospital (Quzhou Central Hospital), No. 100, Minjiang Road, Kecheng Dist., Quzhou, Zhejiang, People's Republic of China ~72: Enjie Wang;Lei Li;Lei Tong;Yancheng Li;Ziru Zhao~

2025/06295 ~ Complete ~54:SYSTEM INTELLIGENT SWITCH SOCKET ~71:Xiamen Ocean Vocational College, No. 4566 Hongzhong Avenue, Xiang'an District, Xiamen City, Fujian Province, 361102, People's Republic of China ~72: CHENG, REI-HENG;CHUANG, FENG-CHIA;LEE, CHIA-WEN;TI, YEN-WU~

2025/06303 ~ Complete ~54:NEW PHENYLQUINOLONE COMPOUND HAVING ANTIBACTERIAL AND ANTI-CANCER FUNCTIONS AND PREPARATION THEREOF ~71:AlphaMol Science Ltd (Shanghai), #665 Zhangjiang Road, Third Floor, Shanghai Pilot Free Trade Zone, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: LI, Haijian;PAN, Qing;QIN, Taisheng;YUAN, Shuguang~ 33:CN ~31:202211674621.9 ~32:26/12/2022;33:CN ~31:202311795403.5 ~32:25/12/2023

2025/06305 ~ Complete ~54:CEREBLON-BASED KRAS DEGRADING PROTACS ANS USES RELATED THERETO ~71:Arvinas Operations, Inc., 5 Science Park, 395 Winchester Ave, NEW HAVEN 06511, CT, USA, United States of America ~72: DONG, Hanqing;MEDINA, Jesus Raul~ 33:US ~31:63/481,672 ~32:26/01/2023;33:US ~31:63/486,528 ~32:23/02/2023;33:US ~31:63/592,814 ~32:24/10/2023

2025/06283 ~ Provisional ~54:DUST CONTROL COMPOSITION ~71:VAN DER MERWE, Daniel, ZWAVELPOORT, SAAL ST. PLOT 63, PRETORIA 0081, South Africa;VAN DER MERWE, Daniel, ZWAVELPOORT, SAAL ST. PLOT 63, PRETORIA 0081, South Africa;VAN DER MERWE, Nicolaus, ZWAVELPOORT, SAAL ST. PLOT 63, PRETORIA 0081, South Africa ~72: VAN DER MERWE, Daniel;VAN DER MERWE, Daniel;VAN DER MERWE, Nicolaus~

2025/06311 ~ Provisional ~54:SAFERIDE ESCORT ~71:Sipho Nkabinde, 2680 Sikhakhane Street, South Africa ~72: Sipho Nkabinde~

. - APPLIED ON 2025/07/28 -

2025/06326 ~ Complete ~54:A MULTI-LAYER NEEDLE PUNCHED FELT PRODUCTION PRESSING DEVICE ~71:ZHEJIANG HEADING ENVIRONMENT TECHNOLOGY CO., LTD., No. 8, Yuannan Road, Pingqiao Town, Tiantai County, Taizhou City, People's Republic of China ~72: HU, Xianlin;JIANG, Henglong;SUN, Lifeng;WANG, Daolong;ZHAO, Liya~ 33:CN ~31:202411396837.2 ~32:09/10/2024

2025/06320 ~ Complete ~54:A TOROIDAL STRUCTURE BASED TRANSMITTER AND RECEIVER COIL FOR WIRELESS CHARGING SYSTEM ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Mrs. Ramya Nallusamy;Shiyamhasan Sountza;Sowndhaar Velur Ramesh;Sriram Suresh;Vishal Senthil~

2025/06328 ~ Complete ~54:CELL CULTURE METHODS ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: JACOB, Nitya Mariam;KHURSHID, Madiha;PEDROSO, Jessica A.;PEHRSON, Sidney;SOICE, Neil~ 33:US ~31:63/443,190 ~32:03/02/2023

2025/06338 ~ Complete ~54:AN ADJUSTABLE DRYING OVEN FOR NON-WOVEN FABRIC PROCESSING ~71:ZHEJIANG HEADING ENVIRONMENT TECHNOLOGY CO., LTD., No. 8 Yuannan Road, Pingqiao Town, Tiantai County, Taizhou City, People's Republic of China ~72: WANG, Daolong;ZHAO, Yewang~ 33:CN ~31:202411848874.2 ~32:16/12/2024

2025/06483 ~ Provisional ~54:A SYSTEM AND METHOD FOR GENERATING TEMPORARY, PURPOSE-BOUND VIRTUAL PAYMENT CARDS WITH MERCHANT CONTROLS AND REFUND AUTOMATION ~71:motlatso sekoaila, 9 Pansy Street, South Africa ~72: motlatso sekoaila~ 33:ZA ~31:TEMP12345 ~32:26/07/2025

2025/06329 ~ Complete ~54:A NICKEL-FREE PLATINUM ALLOY COMPOSITION ~71:Anglo Platinum Marketing Limited, 17 Charterhouse Street, LONDON EC1N 6RA, UNITED KINGDOM, United Kingdom ~72: MIRAB, Saeidehsadat;PHILIPS, Howard;RENDELL, Paul;SIM, Nicholas;TURK, Andrej~ 33:GB ~31:2301918.5 ~32:10/02/2023;33:GB ~31:2310329.4 ~32:05/07/2023

2025/06335 ~ Complete ~54:CENTRIFUGAL MICRO-FLUIDIC DISK FOR DETECTING THE PRESENCE AND CONCENTRATION OF AN ANALYTE OF INTEREST ~71:LIFELOC TECHNOLOGIES, INC., 12441 West 49th Avenue Suite 4, Wheat Ridge, Colorado, 80033, United States of America ~72: CHARLES A GONZALES;CURTIS H STUMPF;WAYNE ROBERT WILLKOMM~ 33:US ~31:63/484,706 ~32:13/02/2023

2025/06321 ~ Complete ~54:A SMART NAVIGATION SYSTEM FOR GPS DENIED AREAS ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Dr. Jegadeesan Subramani;Dr. Jeyakumar Pitchaikani;Harish Raja;Jeeva Ashokkumar;Jeevith Selursellappampalayam Mahalingam;Kiruthivarma Senthilnathan;Manoj Vishwanathan~

2025/06327 ~ Complete ~54:ABSORBENT ARTICLE BARRIER LAYER ~71:Kenvue Brands LLC, 1 Kenvue Way, SUMMIT 07901, NJ, USA, United States of America ~72: PEREIRA, Aline;SARDINHA, Gilson~ 33:US ~31:63/477,599 ~32:29/12/2022

2025/06332 ~ Complete ~54:METHOD OF DETERMINING A ROAD SURFACE CONDITION, ROAD, SURFACE CONDITION MONITORING SYSTEM, FOR MONITORING AN INDUSTRIAL SITE, AND COMPUTER PROGRAM PRODUCT ~71:ABB Schweiz AG, Bruggerstrasse 66, BADEN CH-5400, SWITZERLAND, Switzerland ~72: ASTRAND, Max;LINDKVIST, Rickard~

2025/06317 ~ Complete ~54:A SYSTEM FOR MANAGING OPERATIONS OF MULTIPLE FACES IN EMOTION DETECTION PROCESS ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Dr Dhivya Ramasamy;Sachin Arulan;Sathyaseelan Kannal;Sriramkrishna Velusamy;Sujan Palanisamy~

2025/06334 ~ Complete ~54:A LAUNDRY CLEANING COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GAURAV PATHAK;SARMISTHA BISWAS;SHILPA KULKARNI~ 33:EP ~31:23160859.7 ~32:09/03/2023

2025/06314 ~ Complete ~54:A REAL TIME TRACKING SHOE SYSTEM FOR STUDENT MONITORING AND BEHAVIOR ANALYSIS ~71:DHOBLE, Sanjay J., PG DEPARTMENT OF PHYSICS, R.T.M. NAGPUR UNIVERSITY, NAGPUR, MAHARASHTRA, 440033, India;GUPTA, Amardeep, DAV COLLEGE, AMRITSAR, PUNJAB, 143001, India ~72: DHOBLE, Sanjay J.;GUPTA, Amardeep~

2025/06315 ~ Complete ~54:COMPOUND WITH A-GLUCOSIDASE INHIBITORY ACTIVITY AND APPLICATION THEREOF ~71:China Agricultural University, No. 2 Yuanmingyuan West Road, HaiDian District, Beijing City, 100193, People's Republic of China ~72: CHEN Chong;GUO Fengyu;LIU Siyuan;WANG Pengjie;WANG Ran;WANG Xiaoyu;ZHANG Hao;ZHANG Weibo;ZHAO Liang~ 33:CN ~31:202411036568.9 ~32:31/07/2024

2025/06322 ~ Complete ~54:AN AUTOMATIC FORK SYSTEM FOR REDUCING THE MORTALITY OF CHICKENS IN POULTRY FARM ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Banumathi Sembanan;Mokish Jayaraman;Surendar Chandrasekaran;Vignesh Ponnusamy~

2025/06319 ~ Complete ~54:AN INTEGRATED SYSTEM FOR MONITORING AND CONTROLLING THE OPERATIONS OF A WHEELCHAIR ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: SHEIKDAVOOD KAITHBEER;SUDHAKAR KARUPPANNAN;SUGESHAN SIVAKUMAR;VENNILA VELLAISAMY;VIGNESH ESWARAN;VIGNESHWARAN ARUNNANDA;VISHNU BHARATHI JAYABALAN~

2025/06330 ~ Complete ~54:AQUEOUS FUNGICIDAL SUSPENSION ~71:Adama Makhteshim Ltd., P.O. Box 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: ENGLANDER, Joseph;LERNER YARDENI, Jenny;SERTCHOOK, Hanan~ 33:US ~31:63/439,594 ~32:18/01/2023

2025/06337 ~ Complete ~54:TREATMENT OF CHRONIC RHINOSINUSITIS WITH ANTI-TSLP ANTIBODY ~71:MedImmune, LLC, One MedImmune Way, GAITHERSBURG 20878, MD, USA, United States of America ~72: GRIFFITHS, Janet~ 33:US ~31:63/483,000 ~32:02/02/2023;33:US ~31:63/503,087 ~32:18/05/2023

2025/06331 ~ Complete ~54:MINERAL WOOL ~71:Saint-Gobain Isover, Tour Saint-Gobain, 12 Place de l'Iris, COURBEVOIE 92400, FRANCE, France ~72: CHAUDAN, Elodie;KESTNER, Malte~ 33:FR ~31:FR2301553 ~32:20/02/2023

2025/06336 ~ Complete ~54:A SELF-CLEANING COMPONENT AND METHOD FOR A CEMENT GRINDING COAL DUST REMOVAL FILTER BAG TECHNICAL FIELD ~71:ZHEJIANG HEADING ENVIRONMENT TECHNOLOGY CO., LTD., No. 8 Yuannan Road, Pingqiao Town, Tiantai County, Taizhou City, People's Republic of China ~72: BAO, Changyang;CHEN, Bin;LI, Biyou;WANG, Daolong~ 33:CN ~31:202411981329.0 ~32:31/12/2024

2025/06340 ~ Provisional ~54:TITLE: TOPICAL AND ORAL COMPOSITIONS OF IVERMECTIN, CITRULLUS LANATUS, AND ALOE VERA FOR THE TREATMENT OF PSORIASIS ~71:Pierre Johann van der Merwe, 42 Bergsig street, South Africa ~72: Pierre Johann van der Merwe~ 33:ZA ~31:2024/08343 ~32:05/11/2024

2025/06486 ~ Complete ~54:VENTILATION DUCT ~71:TERRAVENT (PTY) LTD, 965 Duncan Street, Brooklyn, South Africa ~72: VAN SCHOOR, Martin John~ 33:ZA ~31:2024/05804 ~32:29/07/2024

2025/06433 ~ Provisional ~54:SECURING PRELOAD IN BOLTED CONNECTIONS AGAINST SLACKENING (CAUSED BY SETTLEMENT, CREEP, DIFFERENTIAL THERMAL EXPANSION, RELAXATION AND YIELDING), AS WELL AS SPONTANEOUS LOOSENING. ~71:Wolf Fabrication & Engineering, 210 Lea Rd, South Africa ~72: Ivan Plurat Uttley~

2025/06437 ~ Complete ~54:A YARN PREPARATION DEVICE AND METHOD OF ELECTROSPINNING NANOFIBER BY SELF-ROTATING ~71:Tiangong University, No. 399 Binshui West Road, Xiqing District, Tianjin, People's Republic of China ~72: Dong Shoujun;Liu Jian;Liu Yongru;Pan Shanshan;Wang Chenghao~

2025/06439 ~ Complete ~54:GROWTH REGULATOR FOR ENHANCING LOW-TEMPERATURE RESISTANCE IN PEPPER PLANTS ~71:Suzhou University, Erpu Village, Zhuxianzhuang Town, Yongqiao District, Suzhou City, Anhui Province, People's Republic of China ~72: Weihong Lu;Yaofang Wang~

2025/06316 ~ Complete ~54:A CHEMICAL POLLUTION CONTROL SYSTEM ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Dr. Nithyanandam Thangavelu;Nithin Varudharaju;Praneeth Ravichandran;Prathish Mayavan~

2025/06339 ~ Complete ~54:AN INNER PERIPHERAL SURFACE SCRAPING AND WASHING DEVICE FOR PROCESSING DUST REMOVAL FILTER CARTRIDGES ~71:ZHEJIANG HEADING ENVIRONMENT TECHNOLOGY CO., LTD., No. 8 Yuannan Road, Pingqiao Town, Tiantai County, Taizhou City, People's Republic of China ~72: CHEN, Lifei;PANG, Maozhi;WANG, Daolong;XING, Libin;ZHANG, Jianmin~ 33:CN ~31:202411382673.8 ~32:30/09/2024

2025/06325 ~ Complete ~54:CONDITIONING STATION TOOLING ~71:ADLER INDUSTRIAL SOLUTIONS, INC., 1008 SE Browning St., United States of America ~72: CHEN, Jincheng~ 33:US ~31:63/481,258 ~32:24/01/2023

2025/06376 ~ Provisional ~54:AMARI VOICE ~71:ALPHEUS OUPA KGAPOLA, 5062 REV SELAMOLELA STR, MAMELODI WEST, GAUTENG, South Africa ~72: ALPHEUS OUPA KGAPOLA ~

2025/06434 ~ Complete ~54:MARKER, ASSAY REAGENT AND KIT FOR GASTRIC JUICE EXOSOMES, AND APPLICATION ~71:THE THIRD PEOPLE`S HOSPITAL OF CHENGDU, No. 82 Qinglong Street, Qingyang District, Chengdu City, Sichuan Province, 610031, People's Republic of China ~72: FAN, Ruiling;GUO, Yuanbiao;LI, Yan;LIU, Lei;SUN, Xiaobin;YANG, Jingwei~ 33:CN ~31:202411835782.0 ~32:13/12/2024

2025/06435 ~ Complete ~54:FAULT DIAGNOSIS SYSTEM FOR INTELLIGENT ARTERIAL BLOOD PRESSURE MONITOR ~71:THE FIRST AFFILIATED HOSPITAL OF SOOCHOW UNIVERSITY, No.899, Pinghai Road, Gusu District, Suzhou, Jiangsu, 215000, People's Republic of China ~72: BI, Guorong;JI, Fuhai;LIU, Huayue;MENG,

Xiaowen;PENG, Ke;SHAN, Xisheng;WANG, Gang;WANG, Yichan;XIAO, Chengjiao;XU, Qiya;YANG, Xiu;YANG, Yufan;ZHAO, Weiming~

2025/06485 ~ Provisional ~54:INTELLIGENT MODULAR REAL-TIME NURSE CALL SYSTEM WITH PREDICTIVE AND INTEROPERABLE HEALTHCARE FEATURES ~71:Joseph Mbugwa, 39 Western Road, South Africa;Lonwabo Manzi, 14 Pancras St, South Africa ~72: Joseph Mbugwa;Lonwabo Manzi~

2025/06432 ~ Provisional ~54:AI-ENHANCED SYSTEM FOR AUTOMATED INTEGRATION OF NON-API SERVICE PROVIDERS IN DIGITAL BOOKING PLATFORMS ~71:Anesu Nyakudjga, Bahari Lifestyle Apartments, 29 Copacabana Blvd, Heritage Park, Cape Town,, Western Cape, 7130, South Africa ~72: Andre Prinsloo;Anesu Nyakudjga;Lindokuhle Felicity Rajuli~

2025/06440 ~ Complete ~54:A HELMET BASED DRIVING CONTROL AND ACCIDENT PREVENTION SYSTEM FOR TWO-WHEELER VEHICLE ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: AMSA MURUGESAN;MONISHA RAMALINGAM;MUKESH MANORANJITHAN;NARESH DHARMARAJ;NITHISHA BALAKRISHNAN~

2025/06436 ~ Complete ~54:NUMERICAL SIMULATION METHOD FOR HEAT TREATMENT FURNACES ~71:University of Electronic Science and Technology of China, Zhongshan Institute, No. 1, College Road, Zhongshan City, Guangdong Province, 528400, People's Republic of China ~72: Jianting Zhang;Li Zhang~ 33:CN ~31:2025109775530 ~32:15/07/2025

2025/06438 ~ Complete ~54:MULBERRY TREE PRUNING MACHINE ~71:Hongyun Guo, Agricultural and Rural Office of Shankou Town, No. 28 Guangming Road, Shankou Town, Xiushui County, Jiangxi Province, People's Republic of China ~72: Dan Rong;Hongyun Guo;Qianting Xu;Shanpu Han;Xiaohua Li;Xuerong Huang;Zhaokun Guo;Zhirui Zeng~

2025/06318 ~ Complete ~54:A FLEXIBLE METAMATERIAL BASED WEARABLE SUIT FOR ABSORBING RADAR WAVES ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Dr. Jegadeesan Subramani;Dr. Jeyakumar Pitchaikani;Sanjay Subramani;Saravanan Rajamurugan;Selvakumaran Kunjammal Shanmugam;Senthilbalaji Manikkam~

2025/06323 ~ Complete ~54:A SYSTEM FOR REGULATING TEMPERATURE OF THE NESTS TO INCREASE THE HATCHING RATIO ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: SHEIKDAVOOD KAITHBEER;SUGESHAN SIVAKUMAR;SURYANARAYANAN ADHINARAYANAN;VIGNESH ESWARAN~

2025/06333 ~ Complete ~54:LYOPHILIZED SOVATELTIDE-BASED INJECTABLE FORMULATION AND A PROCESS FOR PREPARATION ~71:PHARMAZZ, INC., 50 West 75th Street, Suite 105 Willowbrook, Illinois, 60527, United States of America ~72: DR. ANIL GULATI;MANISH S LAVHALE~ 33:US ~31:18/343,087 ~32:28/06/2023;33:US ~31:18/478,528 ~32:29/09/2023

2025/06484 ~ Provisional ~54:SYSTEM AND METHOD FOR INTERBANK ACCOUNT-TO-ACCOUNT TRANSFERS VIA ATM ~71:Dineo Jessica Mofando, 2842 Mhlaba Drive Street Chiawelo, South Africa ~72: Dineo Jessica Mofando~

. - APPLIED ON 2025/07/29 -

2025/06342 ~ Provisional ~54:BOREHOLE APPARATUS FOR OCCLUDING A BOREHOLE ~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 ~72: JONKER, Nicolaas Johannes van der Watt;PRINSLOO, Jacobus Nicolas~

2025/06350 ~ Complete ~54:A BONE-JOINING AND TENDON-REPAIRING GRANULE PREPARATION AND ITS PREPARATION METHOD ~71:Huaxian Department of orthopedics hospital, East Side of the Middle Section of Huangta Xinxing Street, Banpodian Township, Huaxian County, Anyang City, Henan Province, 456485, People's Republic of China ~72: Xinhui Ming;Xinjie Ming;Xintang Ming;Xinyue Ming~

2025/06346 ~ Complete ~54:A PREPARATION METHOD, PRODUCT, AND APPLICATION OF A COMPOSITE PHOTOCATALYST ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China;jiangsu university, No. 301, Xuefu Road, Zhenjiang City, Jiangsu Province, People's Republic of China ~72: BaiWenyu;Geng Hongchao;Huo Pengwei;Kang Haiyan;Li Baixin;Ling Huifang;Ma Yaojie;Mao Yanli;Wang Chaohai;Wang Mengdi;WangJingpei;Yan Xu;YanYan;Zhu Zhi~ 33:CN ~31:2025109122089 ~32:03/07/2025

2025/06359 ~ Complete ~54:METHOD FOR THERMAL ENERGY RECOVERY IN A PUMPED HYDRO ENERGY STORAGE ~71:RENEWABLES 8760 OY, Vuorikuja 13, Finland ~72: SOIKKELI, Timo~ 33:FI ~31:20226188 ~32:30/12/2022

2025/06363 ~ Complete ~54:A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061528 ~32:15/11/2023

2025/06367 ~ Complete ~54:PROCESS FOR PRODUCING DIALKYL SUCCINATE ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: CLAXTON, Henry Arthur;GORDON, Paul;HEAPS, Joshua Andrew;REED , Graham;SMIDT, Martin Lucas~ 33:GB ~31:2302059.7 ~32:14/02/2023

2025/06372 ~ Complete ~54:LABORATORY COORDINATION DEVICES, METHODS, AND SYSTEMS ~71:METHODICAL MIND, LLC, 1601 Research Boulevard Rockville, Maryland, 20850, United States of America ~72: CHARLES CLINTON;CHRISTOPHER METTING;JACOB N WOHLSTADTER;MICHAEL VOCK;PETER BOSCO~ 33:US ~31:63/481,512 ~32:25/01/2023

2025/06341 ~ Provisional ~54:INTEGRATED SENSOR-BASED SYSTEM FOR TRACKING WEAPON USE AND FIRING EVENTS ~71:NexGen IoT Global LCC, ii. 288 Beach Drive NE Apt 12C, United States of America ~72: MOLLENTZE, Karaden Hunt~

2025/06343 ~ Provisional ~54:SYNERGISTIC FERMENTED BOTANICALS: CITRULLUS LANATUS WITH ALOE FEROX FOR ENHANCED BIOACTIVITY ~71:Pierre Johann van der Merwe, 42 Bergsig street, South Africa ~72: Pierre Johann van der Merwe~ 33:ZA ~31:2024/08343 ~32:05/11/2024

2025/06345 ~ Complete ~54:SYSTEMS, APPARATUS AND METHODS FOR INTER PREDICTION REFINEMENT WITH OPTICAL FLOW ~71:INTERDIGITAL VC HOLDINGS, INC., 200 Bellevue Parkway, Suite 300, Wilmington, Delaware, 19809, United States of America ~72: JIANCONG LUO;YUWEN HE~ 33:US ~31:62/802,428 ~32:07/02/2019;33:US ~31:62/814,611 ~32:06/03/2019;33:US ~31:62/833,999 ~32:15/04/2019

2025/06347 ~ Complete ~54:A THIRTEEN-INGREDIENT MUSCLE AND BONE RECOVERY CAPSULE AND ITS PREPARATION METHOD ~71:Huaxian Department of orthopedics hospital, East Side of the Middle Section of

Huangta Xinxing Street, Banpodian Township, Huaxian County, Anyang City, Henan Province, 456485, People's Republic of China ~72: Xinhui Ming;Xinjie Ming;Xintang Ming;Xinyue Ming~

2025/06348 ~ Complete ~54:A SUPER AUSTENITIC LASER CLADDING REPAIR DEVICE ~71:Anhui Technical College of Mechanical and Electrical Engineering, No. 16, Wenjin West Road, Higher Education Park, Yijiang District, Wuhu City, Anhui Province, 243002, People's Republic of China ~72: Dewei Wang;Wei Gu~ 33:CN ~31:202520818561.6 ~32:28/04/2025

2025/06353 ~ Complete ~54:DATA PROCESSING SYSTEM FOR NETWORK AUDIOVISUAL NEW MEDIA ~71:Zhejiang Industry and Trade Vocational College, No. 717 Fudong Road, Wenzhou City, Zhejiang Province, People's Republic of China ~72: Wu Yang~

2025/06360 ~ Complete ~54:METHOD FOR MONITORING A STEEL PROCESSING LINE, ASSOCIATED ELECTRONIC DEVICE AND STEEL PROCESSING LINE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Frédéric BONNET~

2025/06361 ~ Complete ~54:METHODS AND COMPOSITIONS FOR PRODUCTION AND PURIFICATION OF PEPTIDES ~71:MICROPEP TECHNOLOGIES S.A., ZAC du Pont de Bois, 120 Impasse Jeanne Barret, France ~72: CARTIER, Renaud;COURBOT, Mikaël Stéphane;SUBRINI, Orso~ 33:US ~31:63/486,652 ~32:23/02/2023;33:US ~31:63/486,653 ~32:23/02/2023;33:US ~31:63/486,654 ~32:23/02/2023

2025/06366 ~ Complete ~54:FUSION COMPOUNDS AND USES THEREOF ~71:Novo Nordisk A/S, Novo Alle 1, BAGSVÆRD 2880, DENMARK, Denmark ~72: ANDERSEN, Birgitte;TAGMOSE, Tina Møller~ 33:EP ~31:23165485.6 ~32:30/03/2023

2025/06357 ~ Complete ~54:AUTOMATED INVESTMENT RISK ASSESSMENT AND PORTFOLIO OPTIMIZATION SYSTEM USING HYBRID MACHINE LEARNING MODELS ~71:Ameya Anil Patil, Assistant Professor Dr Vishwanath Karad MIT World Peace University Pune Maharashtra 411038, India;Ankita Bhatt, Assistant Professor Sinhgad Institutes Smt Kashibai Navale College of Commerce Erandwane Pune Maharashtra 411004, India;Dr. Shriram Savaleram Dawkhar, Director-Sinhgad Business School Erandwane Pune Maharashtra 411004, India;Karan Randive, Assistant Professor Sinhgad Institutes Smt Kashibai Navale College of Commerce Erandwane Pune Maharashtra 411004, India ~72: Ameya Anil Patil;Ankita Bhatt;Dr. Shriram Savaleram Dawkhar;Karan Randive~

2025/06368 ~ Complete ~54:A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061537 ~32:15/11/2023

2025/06373 ~ Complete ~54:BIDIRECTIONAL ONE PIECE METAL SEAT FOR BALL VALVE ~71:BRAY INTERNATIONAL, INC., 13333 Westland East Blvd., Houston, Texas, 77041, United States of America ~72: JOSHUA ANDREWS;JUSTIN BERNARD;KISHOREKUMAR VIJAYARAM;MITCHELL ANDERSON~ 33:US ~31:63/486,301 ~32:22/02/2023

2025/06378 ~ Provisional ~54:ONLINE BID OPTIMIZATION ~71:Joe Scallers Pty (LTD), 60 Central Park Estate, South Africa ~72: Johannes Mahlatswa Semenya~

2025/06364 ~ Complete ~54:HETEROCYCLE FUSED GAMMA-CARBOLINES ACTING ON THE SEROTONINE 5-HT2A RECEPTOR ~71:Intra-Cellular Therapies, Inc., 135 Route 202/206, Suite 6, BEDMINSTER 07921, NJ, USA, United States of America ~72: DAVIS, Robert;LI, Peng;QIAO, Yupu;SNYDER, Gretchen;ZHANG,

Lei;ZHANG, Qiang;ZHENG, Hailin~ 33:US ~31:63/478,010 ~32:30/12/2022;33:US ~31:63/603,617 ~32:28/11/2023

2025/06370 ~ Complete ~54:PROTEIN AND VACCINE AGAINST INFECTION BY SARS-COV-2 OMICRON VARIANT STRAIN AND SUBTYPE THEREOF ~71:WESTVAC BIOPHARMA CO., LTD., No. 552 Fenghuang Road, Chengdu Tianfu International Bio-Town, Shuangliu District Chengdu, Sichuan, 610000, People's Republic of China ~72: GUANGWEN LU;GUOBO SHEN;JINGYUN YANG;JINLIANG YANG;JIONG LI;LI YANG;WEI WANG;XIAWEI WEI;YUQUAN WEI;ZHENLING WANG;ZHIWEI ZHAO~ 33:CN ~31:202310058902.X ~32:19/01/2023

2025/06374 ~ Complete ~54:HYBRID SEAWATER ICE MAKER ~71:NINGBO HUIKANG INDUSTRIAL TECHNOLOGY CO., LTD, No. 55 Binhai Fourth Road, Qianwan New Area, Ningbo, People's Republic of China ~72: CHEN, Yuepeng;HU, Jifeng;LI, Guoqing;WANG, Wei;WANG, Zhengcong~ 33:CN ~31:202410965927.2 ~32:18/07/2024

2025/06344 ~ Provisional ~54:BATHOSERVE - A DIGITAL MUNICIPAL SERVICE DELIVERY PLATFORM WITH INTEGRATED CITIZEN FEEDBACK, EMPLOYEE GAMIFICATION AND AUDIT INTELLIGENCE ~71:Tshegofatso Masego Gama, 10 La Casa, South Africa ~72: Tshegofatso Gama~

2025/06351 ~ Complete ~54:PRIMER GROUP AND KIT FOR SIMULTANEOUSLY IDENTIFYING CLASSICAL STRAIN AND VARIANT STRAIN OF PEDV ~71:Jiangxi Agricultural University, No. 1101 Zhimin Avenue, Qingshanhu District, Nanchang City, Jiangxi Province, 330045, People's Republic of China ~72: FANG, Mengtao;HUANG, Dongyan;LI, Jieqiong;LIU, Zhong;SONG, Deping;WAN, Gen;WU, Qi;YE, Yu~ 33:CN ~31:202411420119.4 ~32:12/10/2024

2025/06355 ~ Complete ~54:ELECTRICAL SWITCH CIRCUIT ~71:BATTERY ELECTRIC (PTY) LTD, 533 Malcolm Moodie Crescent, Jet Park, Boksburg, South Africa ~72: MOMBERG, Hein;VAN DER MERWE, Eugene Francois;VAN RENSBURG, Jannie~ 33:ZA ~31:2024/04006 ~32:23/05/2024

2025/06358 ~ Complete ~54:SYSTEM AND METHOD FOR PREVENTING CALL DROP USING CALL TRANSFER ~71:JIO PLATFORMS LIMITED, Office-101, Saffron, Nr. Centre Point, Panchwati 5 Rasta, Ambawadi, India ~72: DUTTA, Debapriyo;JENA, Pankaj Mohan;KUMAR, Ranjit Ma;MAHESHWARI, Daksh Kumar;MARUF, Kazim Hanif~ 33:IN ~31:202421058199 ~32:31/07/2024

2025/06362 ~ Complete ~54:TREATMENT FOR OCULAR DISORDERS ~71:LIFE BIOSCIENCES, INC., 75 PARK PLAZA, LEVEL THREE, BOSTON, MASSACHUSETTS 02116, USA, United States of America ~72: CERMAK, Jennifer;MANNICK, Joan;WATHIER, Michel~ 33:US ~31:63/478,843 ~32:06/01/2023;33:US ~31:63/499,864 ~32:03/05/2023

2025/06369 ~ Complete ~54:INTELLIGENT TEMPERATURE-CONTROLLED AND BUBBLE-ELIMINATING PLASMA ELECTRODE SYSTEM AND CONTROL METHOD THEREOF ~71:HANGZHOU SUODE MEDICAL EQUIPMENT CO., LTD., No.7, Yaolin Road, Tonglu County, Hangzhou, Zhejiang, 311500, People's Republic of China ~72: QIJIAN SHENTU;XIN ZHOU;YONG SHENTU~ 33:CN ~31:202510022342.1 ~32:07/01/2025

2025/06377 ~ Provisional ~54:VENTELLE ~71:ALPHEUS OUPA KGAPOLA, 5062 REV SELAMOLELA STR, MAMELODI WEST, GAUTENG, South Africa ~72: ALPHEUS OUPA KGAPOLA ~

2025/06365 ~ Complete ~54:COFFEE GRINDING MACHINE WITH IMPROVED HOPPER ENGAGEMENT AND OPENING/CLOSING DEVICE ~71:La Marzocco S.r.l., Via La Torre, 14/H, SCARPERIA E SAN PIERO (FI) 50038, ITALY, Italy ~72: BECCASTRINI, Marco;MAGHERINI, Alessandro~ 33:IT ~31:102022000027303 ~32:30/12/2022

2025/06371 ~ Complete ~54:MRNA VACCINE AND RECOMBINANT PROTEIN VACCINE AGAINST INFECTION BY SARS-COV-2 OR VARIANT THEREOF AND APPLICATIONS THEREOF ~71:WESTVAC BIOPHARMA CO., LTD., No. 552 Fenghuang Road, Chengdu Tianfu International Bio-Town, Shuangliu District Chengdu, Sichuan, 610000, People's Republic of China ~72: GUANGWEN LU;JINGYUN YANG;JINLIANG YANG;JIONG LI;LI YANG;PING CHENG;WEI WANG;XIAWEI WEI;YUQUAN WEI;ZHENLING WANG;ZHIWEI ZHAO~ 33:CN ~31:202310056799.5 ~32:20/01/2023

2025/06352 ~ Complete ~54:A PREPARATION METHOD, PRODUCT, AND APPLICATION OF A COPPER-BASED CATALYS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China;jiangsu university, No. 301, Xuefu Road, Zhenjiang City, Jiangsu Province, People's Republic of China ~72: BaiWenyu;Geng Hongchao;Huo Pengwei;Kang Haiyan;Ling Huifang;Ma Yaojie;Mao Yanli;Wang Chaohai;Wang Mengdi;WangJingpei;Yan Xu;YanYan;Zhu Zhi~ 33:CN ~31:2025109144834 ~32:03/07/2025

2025/06349 ~ Complete ~54:A PREPARATION PROCESS FOR SALTED AND BAKED PEANUTS ~71:Henan Xinqilin People's Catering Management Co., Ltd., No. 2, North of the Road, East of Wenming Road and Changjiang Road Intersection, New District, Huaxian County, Anyang City, Henan Province, 456463, People's Republic of China ~72: Haoliang Han;Lina Fang;Yutong Han~

2025/06354 ~ Complete ~54:IC CHIP APPEARANCE DEFECT DETECTION SYSTEM BASED ON CHANNEL SPACE INTERACTION ATTENTION ~71:Zhejiang Industry and Trade Vocational College, No. 717 Fudong Road, Wenzhou City, Zhejiang Province, People's Republic of China ~72: Chen Hancheng;Ding Jinqiao;Qian Yuezhong;Qiu Jianshu;Xiang Chaohui~

2025/06356 ~ Complete ~54:DISC MOUNTING ASSEMBLY FOR A VERTICAL TILLAGE IMPLEMENT ~71:J A Redekop Holdings Ltd., Box 379, Plum Coulee, MANITOBA R0G 1R0, CANADA, Canada ~72: BERG, Waldemar;REDEKOP, Johan~ 33:US ~31:18/810,016 ~32:20/08/2024

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2025/06385 ~ Complete ~54:A DEVICE AND METHOD FOR CONTROLLING DEFORMATION AND FAILURE OF SURROUNDING ROCK IN A RECTANGULAR ROADWAY ~71:Jiangsu Vocational Institute of Architectural Technology, No. 26, Xueyuan Road, Quanshan District, Xuzhou City, Jiangsu Province, 221116, People's Republic of China ~72: GUO Dongqin;YANG Ning;ZHANG Haoze;ZHAO Meixia~

2025/06392 ~ Complete ~54:ANTI-TUMOR MULTISPECIFIC ANTIBODY TARGETING EGFR/PD1/VEGF AND PREPARATION METHOD THEREOF ~71:Jilin University, No. 2699 Qianjin Street,, Changchun City, Jilin Province, 130012, People's Republic of China ~72: CHEN, Duoduo;FANG, Mingli;GAO, Haicheng;SU, Yingying;YANG, Ming~

2025/06394 ~ Complete ~54:OPHTHALMIC CARE LIQUID DRIPPING DEVICE ~71:Mudanjiang Aier Ophthalmology Hospital Co., Ltd., No. 27 Dongdiming Street, Aimin District, Mudanjiang, Heilongjiang, People's Republic of China ~72: Ran Gu;Yingmei Jiang;Yunfeng Li~ 33:CN ~31:2024111819852 ~32:27/08/2024

2025/06398 ~ Complete ~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 ~71:ACTUATE THERAPEUTICS, INC., 1401 Foch St, Suite 140, Fort Worth TX 76107, United States of America ~72: YAMIN ZHANG~ 33:US ~31:62/572,603 ~32:16/10/2017

2025/06380 ~ Provisional ~54:A COOLING SYSTEM ~71:ROHLOFF ADMINISTRATION (PTY) LTD, 1st Floor, St Andrews Building, Somerset Links Office Park, De Beers Avenue, South Africa ~72: SCHELLINGERHOUT, Niel~

2025/06381 ~ Provisional ~54:FRONT-LOADED ROCK ANCHOR ~71:DURINS BOON MINING (PTY) LTD, 2 Avenue de la Sante, BelAire Winelands Estate, South Africa ~72: CAWOOD, Martin~

2025/06388 ~ Complete ~54:A LARGE DEFORMATION CONTROL DEVICE AND CONTROL METHOD FOR SURROUNDING ROCK IN HIGH-STRESS MINE ROADWAYS ~71:Jiangsu Vocational Institute of Architectural Technology, No. 26, Xueyuan Road, Quanshan District, Xuzhou City, Jiangsu Province, 221116, People's Republic of China ~72: GUO Dongqin;YANG Ning;ZHANG Haoze;ZHAO Meixia~

2025/06393 ~ Complete ~54:FENCING ~71:MALAN, Francois, 66 6th Ave, Alberton North, South Africa ~72: MALAN, Francois~

2025/06412 ~ Complete ~54:MITIGATION OF THERAPEUTIC PROTEIN FRAGMENTATION DURING CELL CULTURE HARVEST PROCESSES ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: BASCONI, Joseph Edward;BONDARENKO, Pavel;CHUNG, Hyo Seon;ERIS, Tamer;KALTENBRUNNER, Oliver;LUO, Quanzhou;PETTY, Krista Marie;XIAO, Gang;ZHAO, Xiaoyang~ 33:US ~31:63/482,844 ~32:02/02/2023

2025/06406 ~ Complete ~54:PROCESS FOR PRODUCING A SINGLE-MATERIAL PARTICLE-FOAM COMPONENT ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: HOLLEYN, Denis;HOPF, Florian;TRAßL, Christian~ 33:EP ~31:23150563.7 ~32:06/01/2023

2025/06411 ~ Complete ~54:IONIZABLE CATIONIC COMPOUND ~71:Seqirus Inc., 475 Green Oaks Parkway, HOLLY SPRINGS 27540, NC, USA, United States of America ~72: DANE, Eric L.;TYE, Ching Kim;YANG, Cangjie~ 33:US ~31:63/484,025 ~32:09/02/2023

2025/06413 ~ Complete ~54:AN HERBICIDAL COMBINATION, COMPOSITION AND METHOD OF CONTROLLING WEEDS USING THE SAME ~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: LEAL, Jessica Ferreira Lourenco;LENZ, Giuvan;RAO, Ganesh~ 33:IN ~31:202311007791 ~32:07/02/2023

2025/06409 ~ Complete ~54:STABLE PROTEIN COMPOSITIONS OF ANTI-PD1 ANTIBODY ~71:SUN PHARMACEUTICAL INDUSTRIES LIMITED, Sun House, Plot No. 201 B/1, Western Express Highway, India ~72: CHOUHAN, Pankaj Singh;JOGANI, Viralkumar Vinodlal;KHOPADE, Ajay Jaysingh;NAGARAJA, Ravishankara Madavati;SHAH, Bhavik Kumar;SHARMA, Manish~ 33:IN ~31:202321010367 ~32:16/02/2023

2025/06422 ~ Complete ~54:GROWTH HORMONE SECRETION PROMOTER ~71:SCOHIA PHARMA, INC., 26-1, Muraoka-Higashi 2-chome, Fujisawa-shi, Kanagawa, 251-8555, Japan ~72: HIDEKI HIROSE;JUN SUGAMA;MASANORI WATANABE;YUSUKE MORITOH~ 33:JP ~31:2023-049987 ~32:27/03/2023

2025/06430 ~ Complete ~54:AUTOMATED FUNGICIDE SPRAY TIMING ~71:PIONEER HI-BRED INTERNATIONAL, INC., 7100 NW 62nd Avenue P.O. Box 1014, Johnston, Iowa, 50131-1014, United States of America ~72: JEREMIAH ROSS BARR;LAYTON ANDREW PEDDICORD;STEVEN A CRYER~ 33:US ~31:63/486,074 ~32:21/02/2023;33:US ~31:63/584,266 ~32:21/09/2023

2025/06431 ~ Complete ~54:THREE-RAIL POWER SUPPLY SYSTEM ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: STRASHNY, Igor~ 33:US ~31:18/105,024 ~32:02/02/2023

2025/06428 ~ Complete ~54:BIOFILM DETECTION SOLUTION AND METHOD OF APPLICATION TO SURFACES ~71:HYPRED, 55 Boulevard Jules Verger, 35800, Dinard, France ~72: FRÉDÉRIC DUBE~ 33:FR ~31:FR2301680 ~32:23/02/2023

2025/06420 ~ Complete ~54:STRUCTURE AND CONSTRUCTION METHOD ~71:CITRA GROUP AG, c/o Benno Büeler, Schönenbergerweg 18, Switzerland ~72: BAUR, Joel;BÜELER, Benno;GRAF, Andreas~ 33:GB ~31:2301325.3 ~32:30/01/2023;33:ZA ~31:2023/08056 ~32:21/08/2023

2025/06424 ~ Complete ~54:COKE OVEN WALL REPAIRING METHOD ~71:JFE STEEL CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo, 1000011, Japan ~72: RYO HAMADA;YASUMASA FUKUSHIMA~ 33:JP ~31:PCT/JP2023/009963 ~32:15/03/2023

2025/06384 ~ Provisional ~54:SPORTCLASS. A WORLD-CLASS TECH-DRIVEN SPORTS APP, PERSONALIZED AI-POWERED SPORTS LEARNING AND FAN ENGAGEMENT APP ~71:Sibongakonke Dlamini, 20 Anderson Street, Marshalltown, South Africa ~72: Sibongakonke Dlamini~

2025/06395 ~ Complete ~54:TRADITIONAL CHINESE PATENT MEDICINE FOR TREATING RHINITIS AND PREPARATION METHOD THEREFOR ~71:Hebei Keyi Hospital Management Co., Ltd, No.3-113, Ground-Floor Shop, North Zone, Imagination International Building, No.169 Zhufeng Street, High-tech Zone, Shijiazhuang City, Hebei Province, People's Republic of China ~72: Lei, Yongquan~ 33:CN ~31:2025110461110 ~32:29/07/2025

2025/06415 ~ Complete ~54:HETEROCYCLIC GLP-1 AGONISTS ~71:Gasherbrum Bio, Inc., 601 Gateway Blvd., Suite 900, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: HUANG, Wei;LEI, Hui;LU, Chunliang;ZHANG, Haizhen~ 33:IB ~31:2023/076495 ~32:16/02/2023;33:IB ~31:2023/113565 ~32:17/08/2023;33:IB ~31:2023/141034 ~32:22/12/2023

2025/06417 ~ Complete ~54:METHOD FOR PROCESSING AN INFRARED IMAGE BY FUSING A PLURALITY OF INFRARED IMAGE COLORIMETRIC PROCESSING OPERATIONS ~71:SAFRAN ELECTRONICS & DEFENSE, 2 Boulevard du Général Martial Valin, France ~72: MANO, Julie~ 33:FR ~31:FR2301664 ~32:23/02/2023

2025/06383 ~ Provisional ~54:VIMBA SHIELD ~71:victoria Lebogang Agbalessi, 34 Currybush Street, Karenpark, Pretoria, Gauteng, 0182, South Africa ~72: Victoria Lebogang Agbalessi~

2025/06386 ~ Complete ~54:CAMELLIA OLEIFERA REVEILLE1 GENE FOR PLANT DROUGHT RESISTANCE AND APPLICATION THEREOF ~71:Hunan Academy of forestry, No. 658, Shaoshan South Road, Changsha City, Hunan Province, 410004, People's Republic of China ~72: CHEN Yongzhong;DENG Xuemei;HE Zhilong;MA Xiaofan;MA Yushen;WAN Zhentao;WANG Rui;WANG Xiangnan;XUN Chengfeng;ZHANG Ying;ZHANG Zhen~ 33:CN ~31:202510918319.0 ~32:03/07/2025

2025/06389 ~ Complete ~54:WASTE WATER TREATMENT SYSTEM FOR BUILDING CONSTRUCTION ~71:SHANDONG FANGDA ENGINEERING CO., LTD, North of Zhaili Town, Zichuan District, Zibo City, Shandong Province, 255100, People's Republic of China ~72: JIA, Zhenqing;LI, Yingbin;LIANG, Qingyu;LU, Hongbin;PENG, Zuling;SU, Yuanwei;TIAN, Lei;TIAN, Xinliu;YAN, Fei;ZHENG, Weibo~ 33:CN ~31:202411684724.2 ~32:22/11/2024

2025/06391 ~ Complete ~54:PLASTIC TROLLEY ARRANGEMENT ~71:SUPERCART SOUTH AFRICA (PTY) LTD, 32 Prospecton Road, PROSPECTON, Durban 4115, Kwazulu-Natal, SOUTH AFRICA, South Africa ~72: WOLFE, Michael Castledine~ 33:ZA ~31:2024/04634 ~32:14/06/2024

2025/06410 ~ Complete ~54:SUBSTITUTED PYRAZOLOPYRIMIDINE COMPOUNDS AND MEDICAL USE THEREOF ~71:Japan Tobacco Inc., 1-1, Toranomon 4-chome, Minato-ku, TOKYO 105-6927, JAPAN, Japan ~72: ADACHI, Kaoru;OHBA, Yusuke;SAKURAI, Kentaro;SATO, Shimpei~ 33:JP ~31:2023-027432 ~32:24/02/2023

2025/06416 ~ Complete ~54:COPPER (CU) REMOVAL FROM STEEL ~71:Kingston Process Metallurgy Inc., 759 Progress Avenue, KINGSTON K7M 6N6, ON, CANADA, Canada ~72: DAVIS, Boyd~ 33:US ~31:63/442,378 ~32:31/01/2023

2025/06423 ~ Complete ~54:PROCESS FOR TREATING IMINIUM SALT-BASED IONIC LIQUIDS ~71:TECHNIKUM LAUBHOLZ GMBH, Bahnhofstraße 41 + 52, 73033, Göppingen, Germany ~72: WILLI KANTLEHNER~ 33:DE ~31:10 2023 101 455.2 ~32:20/01/2023

2025/06425 ~ Complete ~54:CARBONIZATION CHAMBER USABLE PERIOD PREDICTING METHOD AND CARBONIZATION CHAMBER REPAIRING METHOD ~71:JFE STEEL CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo, 1000011, Japan ~72: SEITARO AKIYAMA;YASUMASA FUKUSHIMA~

2025/06429 ~ Complete ~54:CONCENTRATED LIQUID CLEANING COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: KIRAN KUMAR SATHYA MURTHY;MAHESHWARA SHIVA NAIK;PUNAM BANDYOPADHYAY~ 33:EP ~31:23163075.7 ~32:21/03/2023

2025/06407 ~ Complete ~54:POLYPEPTIDE AND DERIVATIVE THEREOF, COMPOSITION, AND USE THEREOF ~71:HANGZHOU SCIWIND BIOSCIENCES CO., LTD., Room 901, 9F, Building 2, No. 400 Fucheng Road, People's Republic of China;SCIWIND BIOSCIENCES (BEIJING) CO., LTD., Rm. 201, Building 4, No.8 Liangshuihe 2nd Street, People's Republic of China ~72: HAO, Sujuan;LI, Yan;PAN, Hai;ZOU, Haixia~ 33:CN ~31:202310158334.0 ~32:10/02/2023

2025/06414 ~ Complete ~54:MEDICAL TEST RESULT REPORTING USING BARCODES ~71:ADL Diagnostics, Inc., 15305 NE 95th Street, REDMOND 98052, WA, USA, United States of America ~72: ATKINSON, Robert G.~ 33:US ~31:63/484,447 ~32:10/02/2023

2025/06418 ~ Complete ~54:MIXED BLASTING SYSTEM ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: MEYER, Tielman Christiaan;SWART, Johannes Nicholaas Gerhardus~ 33:ZA ~31:2023/01328 ~32:02/02/2023

2025/06379 ~ Provisional ~54:A METHOD AND SYSTEM FOR PROVIDING DIRECTIONS TO A ZONE WITHIN AN AREA ~71:DE BEER, Jacques, 11 Agostino Street, Verwoerdpark, ALBERTON 1449, Gauteng Province, SOUTH AFRICA, South Africa ~72: DE BEER, Jacques~

2025/06382 ~ Provisional ~54:SLEEPER ARRANGEMENT, TRACK SYSTEM AND A METHOD OF ADAPTING/REHABILITATING A BALLASTED TRACK ~71:CRAIG TENGSTRÖM, 25 Clyde Street, Murrayfield, Pretoria, 0184, South Africa;IZAK VAN DER LINDE, 10A Laffnie Street, Ermelo, 2350, South Africa ~72: CRAIG TENGSTRÖM;IZAK VAN DER LINDE~

2025/06390 ~ Complete ~54:VALORISATION OF INDUSTRIAL KELP ~71:CELLBURST (PTY) LTD, 2 Link Road, Capricorn Business Park, South Africa ~72: GOOSEN, Neill Jurgens;MAMPANA, Richard Leseja;POTT, Robert William McClelland~ 33:ZA ~31:2024/05853 ~32:30/07/2024

2025/06397 ~ Complete ~54:A SILICON-CALCIUM FERTILIZER BASED ON YELLOW PHOSPHORUS SLAG AND ITS PREPARATION METHOD ~71:Hainan Xunneng Technology Co., Ltd., 2A-07-48-HTCT-HD-0032, Building 2, Aerospace Modern City, No. 169 Wenwei Road, Wencheng Town, Wenchang City, Hainan Province, People's Republic of China ~72: Wei Wang~

2025/06400 ~ Complete ~54:ANTIGEN-CAPTURING NANOPARTICLES AND FORMULATIONS FOR IMMUNOTHERAPY ~71:ARCHIMMUNE THERAPEUTICS, INC., 15 Presidential Way, Suite C, United States of America ~72: QIAN, Dapeng;REN, Hong;SVENSON, Sonke;WANG, Andrew~ 33:US ~31:63/443,555 ~32:06/02/2023

2025/06402 ~ Complete ~54:AN AUGMENTED PROCESS OF CONVERTING A POLYMER TO HYDROCARBON PRODUCTS ~71:INAMDAR, Mr. Nilesh, S. No 52/7B-2, Plot No 11, Near Burhani Park, Tilekarnager, Pune, 411048, India ~72: INAMDAR, Mr. Nilesh~ 33:IN ~31:202321078670 ~32:20/11/2023

2025/06404 ~ Complete ~54:USER PLANE TRAFFIC HANDLING FOR EMERGENCY CASE ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: MAVUREDDI DHANASEKARAN, Ranganathan;PING, Jing~

2025/06405 ~ Complete ~54:FERMENTATIVE PRODUCTION GUANIDINOACETIC ACID (GAA) FROM SERINE USING A MICROORGANISM HAVING AN ENHANCED L-SERINE HYDROXYMETHYLTRANSFERASE ACTIVITY ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: CARRILLO CAMACHO, Martina;SCHAFFER, Steffen;SCHNEIDER, Frank;WESSEL, Mirja~ 33:EP ~31:23150741.9 ~32:09/01/2023

2025/06408 ~ Complete ~54:MECHANOCHEMICAL ACTIVATION OF CLAYS ~71:CELITEMENT GMBH & CO. KG, Hermann-von-Helmholtz-Platz 1, Germany;SCHWENK ZEMENT GMBH & CO. KG, Hindenburgring 15, Germany;THYSSENKRUPP AG, ThyssenKrupp Allee 1, Germany;THYSSENKRUPP POLYSIUS GMBH, Graf-Galen-Str. 17, Germany ~72: Andreas HAMM;Carsten SACHSE;Daniel HINDER;Eike WILLMS;Hendrik MÖLLER;Jan STROTMANN;Karl LAMPE;Luc RUDOWSKI;Marc FYLAK;Michael WILCZEK;Oliver MAIER;Thomas NEUMANN~ 33:DE ~31:10 2023 106 210.7 ~32:13/03/2023;33:LU ~31:LU503619 ~32:13/03/2023

2025/06421 ~ Complete ~54:AZOLYLPYRIDINE PYRIDAZINONE AMIDE AS SOS1 INHIBITOR ~71:CYRUS THERAPEUTICS INC., 5th floor, 4 Jeongui-ro 8-gil, Songpa-gu, Seoul, 05836, Republic of Korea;KANAPH THERAPEUTICS INC., 5th floor, 3, Itaewon-ro 55ga-gil, Yongsan-gu, Seoul, 04348, Republic of Korea ~72: DONG HYUK KI;DONGGEON KIM;EUN-JUNG KIM;HA NA YU;HUNMI CHOI;JI EUN KIM;JIHYUN YU;JOONWOO NAM;SEONGIN JO;SUNGEUN KIM;SUNGPIL CHOI;WOOSEOK HAN;YEEJIN JEON~ 33:KR ~31:10-2023-0020903 ~32:16/02/2023

2025/06426 ~ Complete ~54:METHOD FOR PREDICTING LIFE OF COKE OVEN BATTERY ~71:JFE STEEL CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo, 1000011, Japan ~72: YASUMASA FUKUSHIMA~

2025/06396 ~ Complete ~54:EMERGENCY RESPONSE MANAGEMENT SYSTEM FOR PUBLIC HEALTH INCIDENTS BASED ON BIG DATA ~71:Zhongwei People's Hospital, 335 Gulou West Street, Shapotou District, Zhongwei City, Ningxia Hui Autonomous Region, People's Republic of China ~72: Guoxia Fan;Jia Wang;Jing Wang;Wenjuan Li;Xiaoli Chen~

2025/06442 ~ Provisional ~54:MODULAR RETRACTABLE PROTECTIVE SHIELD SYSTEM ~71:Chrystal Christine Kerspey, 67 Amfibool, South Africa ~72: Chrystal Christine Kerspey~

2025/06427 ~ Complete ~54:WATER-FREE PERSONAL CARE COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ASHISH ANANT VAIDYA;JONISH VARSHNEY;KULKARNI, Aiti Jayavant;LAHORKAR, Praful Gulab Rao;OMKAR SWAPNIL JOSHI~ 33:EP ~31:23155351.2 ~32:07/02/2023

2025/06387 ~ Complete ~54:A METHOD OF PREPARATION OF BIODEGRADABLE BOTTLE FROM DRY LEAVES ~71:M.KUMARASAMY COLLEGE OF ENGINEERING, THALAVAPALAYAM, KARUR, TAMIL NADU, 639113, India ~72: Kavitha Shanmugam;Swathi Devasenapathi;Swetha Marirajan;Swetha Muthusamy;Thanisha Kannan~

2025/06399 ~ Complete ~54:ADAPTIVE REGULATING SYSTEM AND METHOD FOR AIR VOLUME OF AIR CURTAIN BOOM SPRAYER ~71:SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES, No.19, Sangyuan Road, Licheng District, Jinan, People's Republic of China ~72: CHEN, Gang;LI, Jiankun;LI, Qinglong;LI, Rui;SHEN, Jingxin;SUN, Yitian;WEI, Zhiming;ZHANG, Zhiqi~ 33:CN ~31:2024116378930 ~32:15/11/2024

2025/06401 ~ Complete ~54:QUALITY ASSURANCE SYSTEMS BASED ON SPEAKER INTENT DETECTION ~71:UJWAL INC., 148 CASTRO STREET, UNIT 2A, MOUNTAIN VIEW, CA 94041, USA, United States of America ~72: KHULLAR, Sumeet;NAGAR, Ashish;SINGH, Tanul;SINGHAL, Madhur;TALWAR, Abhimanyu~ 33:US ~31:63/442,159 ~32:31/01/2023;33:US ~31:63/521,105 ~32:15/06/2023;33:US ~31:63/597,343 ~32:09/11/2023

2025/06403 ~ Complete ~54:FERMENTATIVE PRODUCTION GUANIDINOACETIC ACID (GAA) FROM SERINE BY ATTENUATING L SERINE AMMONIA LYASE ACTIVITY IN MICROORGANISMS ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: CARRILLO CAMACHO, Martina;SCHAFFER, Steffen;SCHNEIDER, Frank;WESSEL, Mirja~ 33:EP ~31:23150745.0 ~32:09/01/2023

2025/06419 ~ Complete ~54:WORKING FACE HUMAN-MACHINE COLLABORATIVE OPERATION SAFETY MONITORING AND EARLY WARNING SYSTEM AND METHOD ~71:CCTEG TAIYUAN RESEARCH INSTITUTE CO., LTD., No.1 Kehui Road, Technology Innovation City, Demonstration Area, Shanxi, Taiyuan, People's Republic of China;SHANXI TIANDI COAL MINING MACHINERY CO.,LTD., No. 1 Dianzi Street, Demonstration Area, Shanxi, Taiyuan, People's Republic of China ~72: CAO, Jianwen;DU, Chunhui;GAO, Xubin;GAO, Yuan;GUO, Yonghui;HU, Wenfang;HUO, Yaobin;JIANG, Ming;JIN, Xueqi;WANG, Qiang;XIE, Cheng;XU, Lianbing;XUE, Shuqiang;YANG, Kai;YIN, Dongxu~ 33:CN ~31:2024105771682 ~32:10/05/2024

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2025/06449 ~ Provisional ~54:REAL-TIME IOT-BASED SMART SEWERAGE MONITORING SYSTEM WITH AI PREDICTIVE ANALYTICS ~71:Olwethu Morake, 31 Ennis Street, South Africa ~72: Olwethu Morake~

2025/06452 ~ Complete ~54:ICU ECG SIGNAL NOISE REDUCTION PROCESSING SYSTEM ~71:Shanxi Fenyang Hospital, No. 186, Shengli Road, Fenyang, Shanxi, People's Republic of China ~72: Yanmei Zhang~

2025/06462 ~ Complete ~54:CORN SEED VITALITY DETECTION DEVICE ~71:YIBIN UNIVERSITY, NO. 8 JIUSHENG ROAD, EAST SECTION OF WULIANGYE AVENUE, YIBIN, People's Republic of China ~72: CHEN, Bo;GOU, Caiming;LI, Jia;TAN, Zhaoyun;ZHANG, Litian~

2025/06489 ~ Complete ~54:PREFUSION-STABILIZED HMPV F PROTEINS ~71:BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, 210 West 7th Street, United States of America ~72: HSIEH, Ching-Lin;MCLELLAN, Jason;RUSH, Scott;WANG, Nianshuang~ 33:US ~31:63/089,978 ~32:09/10/2020

2025/06492 ~ Provisional ~54:BLAST-TRIGGERED RESIN BOLT ~71:Henry Juan Dobson, 1STE AVE DOORNFONTEIN 7, South Africa ~72: Henry Juan Dobson~

2025/06446 ~ Provisional ~54:A DRUG-DELIVERING CATHETER ~71:HOOP MEDICAL LIMITED, Unit 14, Ardcavan Business Park, Ireland ~72: MUDGE, Edward Charles~

2025/06461 ~ Complete ~54:DISPLAY DESIGN LIFTING DEVICE ~71:SHANGHAI UNIVERSITY OF ENGINEERING SCIENCE, NO. 333 LONGTENG ROAD, SONGJIANG DISTRICT, People's Republic of China ~72: JIN JIEFANG~ 33:CN ~31:2025108165693 ~32:18/06/2025

2025/06453 ~ Complete ~54:ISOLATED CULTIVATION METHOD OF ORGANIC NUTRIENT SOIL SUITABLE FOR VEGETABLE PLANTING ~71:SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, NO. 202, GONGYE NORTH ROAD, People's Republic of China ~72: SONG, Jiping;WANG, Xiao;YANG, Ning;ZHAO, Xu~

2025/06460 ~ Complete ~54:MOTION DETECTION DEVICE BASED ON COMPUTER VISION ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: LIAO, Zhongmin;LIU, Jianbang;XIANG, Zhongqi;XU, Xiuhong;XU, Zhaosheng~ 33:CN ~31:2025107210367 ~32:30/03/2025

2025/06466 ~ Complete ~54:PREFUSION-STABILIZED HMPV F PROTEINS ~71:BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, 210 West 7th Street, United States of America ~72: HSIEH, Ching-Lin;MCLELLAN, Jason;RUSH, Scott;WANG, Nianshuang~ 33:US ~31:63/089,978 ~32:09/10/2020

2025/06470 ~ Complete ~54:MINE GEOTECHNICAL ENGINEERING EMERGENCY LINKAGE MONITORING METHOD AND SYSTEM BASED ON PRECISE POSITIONING ~71:Shandong Zeming Energy Technology Co., Ltd, Gaochuang Center, No.28 Zhengyangmen Street, High-tech Zone, Tai 'an, Shandong, 271000, People's Republic of China ~72: GUO, Peng;LI, Xin;LIU, Bingchao;LU, Yiyang;SHI, Wenkang;WANG, Tao;ZHANG, Mingming~

2025/06471 ~ Complete ~54:METHOD FOR REMOVING MARINE ATTACHING ORGANISMS FROM THE BOTTOM OF SHIPS ~71:Jianguo SANG, 302 Unit One, Building 15, Ziyuan Living Area, Hebei University, Baoding, Hebei, 071000, People's Republic of China ~72: Jianguo SANG~ 33:CN ~31:202411019826.2 ~32:29/07/2024

2025/06445 ~ Provisional ~54:BINDER-LESS BIOMASS BRIQUETTE AND COMPOSITE FUEL DERIVED FROM WATER HYACINTH, AND POLYPHAGOUS SHOT HOLE BORER-INFECTED AND NON-INFECTED ALIEN INVASIVE PLANTS ~71:Thekga Movement Pty Ltd, 35 Northway Street, South Africa ~72: Tumi Mphahlele~

2025/06447 ~ Provisional ~54:ALIVECHECK ~71:MAS Resources, 6 Back Street, South Africa ~72: Mbali Annah Sigasa~

2025/06450 ~ Complete ~54:PREPARATION METHOD FOR ENZYMOLYSIS-BASED GINKGO FRUIT CONCENTRATES AND APPLICATION THEREOF ~71:CIIMBIO (SUZHOU) Co., Ltd., Room 406,4th Floor,Building 1,Ideal Innovation Building, No. 69 Jiuzhang Road, Suzhou Industrial Park, Suzhou, People's Republic of China ~72: Junhu Li;Songlin Yang~

2025/06454 ~ Complete ~54:ELECTRONIC EAR TAG FOR PLATEAU ANIMAL HUSBANDRY ~71:Tibet Qingyang Agricultural Technology Co., Ltd., Room 311, Building 12, 3rd Floor, International Headquarters City, Liuwu Avenue, Liuwu New District, Lhasa, Tibet Autonomous Region, 850030, People's Republic of China ~72: Li Shuhua;Zhu Dianlan~ 33:CN ~31:2025215060352 ~32:17/07/2025

2025/06455 ~ Complete ~54:A DISTRIBUTED POWER DISTRIBUTION CABINET FIRE ALARM SYSTEM BASED ON MULTI-SOURCE DATA FUSION ~71:Shandong Zhongdao Fire Equipment Co., Ltd., Room 1-411,

Building 1, No. 8936, Yuehelou Business Building, Yuehe Road, Dongfeng Street, Chengguan Sub-district, Weicheng District, Weifang City, Shandong Province, 261000, People's Republic of China ~72: Zhen Li~ 33:CN ~31:202510521668.9 ~32:24/04/2025

2025/06468 ~ Complete ~54:A METHOD FOR DETERMINING THE RESCUE PERIOD OF POTATO DISTANT HYBRID EMBRYOS ~71:Hebei North University, No. 11, Zuan shi South Road, High-tech Zone, Zhangjiakou City, Hebei Province, 075132, People's Republic of China ~72: FENG Yan;LUO Yating;QI Lipan;WANG Kuan;WU Guili;XIE Jiahui;YIN Jiang~

2025/06443 ~ Provisional ~54:MOBILITYNEXUS - A SECURE AND MODULAR INTELLIGENT TRANSPORT MANAGEMENT SYSTEM ~71:SKELI SYSTEMS PTY LTD, THE OVAL OFFICE PARK, CENTURION, MEADOWBROOK STREET, South Africa ~72: PULENG PETER MABE~

2025/06456 ~ Complete ~54:COCRYSTALLINE FORMS OF A BRUTON'S TYROSINE KINASE INHIBITOR ~71:Loxo Oncology, Inc., 281 Tresser Blvd., STAMFORD 06901, CT, USA, United States of America ~72: COATES, David Andrew;HILDEN, Lori Raquel~ 33:US ~31:63/188,747 ~32:14/05/2021

2025/06458 ~ Complete ~54:AN ABLUTION AND SANITATION FACILITY ~71:BETRAM (PROPRIETARY) LIMITED, 11 Steenbok Street, Koedoespoort, PRETORIA 0186, SOUTH AFRICA, South Africa ~72: FOURIE, Lukas, Pieter;FOURIE, Lukas, Pieter~

2025/06472 ~ Complete ~54:TORSION RESISTANT COUPLING ~71:VICTAULIC COMPANY, 4901 Kesslersville Road, Easton, United States of America ~72: ALBRIGHT, Christopher;FINLAYSON, Eric Frank~ 33:US ~31:63/448,363 ~32:27/02/2023;33:US ~31:63/448,364 ~32:27/02/2023;33:US ~31:63/448,366 ~32:27/02/2023;33:US ~31:63/600,392 ~32:17/11/2023;33:US ~31:63/600,400 ~32:17/11/2023

2025/06475 ~ Complete ~54:RELEASABLE COUPLING ELEMENTS FOR SCREENING PANEL MODULES ~71:Sandvik Rock Processing Australia Pty Limited, 65 Epping Road, NORTH RYDE 2113, NEW SOUTH WALES, AUSTRALIA, Australia ~72: JOHNSTONE, Aidan~ 33:EP ~31:23157002.9 ~32:16/02/2023

2025/06479 ~ Complete ~54:ROTATABLE DISKS AND SYSTEMS AND METHODS FOR SAMPLE ANALYSIS ~71:Autonomous Medical Devices Incorporated, 3511 West Sunflower Avenue, SANTA ANA 92704, CA, USA, United States of America ~72: KIDO, Horacio;PEYTAVI, Regis~ 33:US ~31:63/453,724 ~32:21/03/2023;33:US ~31:63/528,557 ~32:24/07/2023;33:US ~31:63/598,903 ~32:14/11/2023

2025/06476 ~ Complete ~54:CYCLIC PEPTIDES FOR INHIBITING TNF RECEPTOR 1 ACTIVITY ~71:Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States of America ~72: ABATE, Luigi;BISWAS, Kaustav;BOYER, Nicolas C.;CASH, Brandon D.;CHAU, Ryan;DING, Fa-Xiang;FROST, John R.;GAMBINI, Luca;GARRIGOU, Michael B.;HAIDLE, Andrew M.;JEWELL, James P.;KEKEC, Ahmet;LEE, Hu-Jung Julie;LIN, Songnian;MAPELLI (deceased), Claudio;ORVIETO, Federica;PASQUINI, Nicolo Maria;PROIETTI, Giordano;RAO, Ashwin U.;SINDHIKARA, Daniel J.;SIU, Tony;TOZZI, Roberta;WAN, Murray;WUO, Michael;ZHU, Yuping;ZULTANSKI, Susan L.~ 33:US ~31:63/483,140 ~32:03/02/2023

2025/06477 ~ Complete ~54:PROCESS FOR THE PREPARATION OF ISOXAZOLINE DERIVATIVES ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: ANTELMANN, Bjoern;BERGES, Julien;WHITTON, Alan John~ 33:EP ~31:23158531.6 ~32:24/02/2023

2025/06473 ~ Complete ~54:LINKING METHOD, PARTICULARLY FOR CLOSING AN AXIAL END OF A TUBULAR MANUFACTURE ~71:Lonati S.p.A., Via Francesco Lonati, 3, BRESCIA 25124, ITALY, Italy ~72: LONATI, Ettore;LONATI, Fausto;LONATI, Francesco~ 33:IT ~31:102023000001539 ~32:01/02/2023

2025/06474 ~ Complete ~54:DOPAMINE D3/D2 RECEPTOR MODULATING COMPOUNDS ~71:Richter Gedeon Nyrt., Gyömröi út 19-21, BUDAPEST H-1103, HUNGARY, Hungary ~72: BODNÁRNÉ DÉAK, Szilvia;BORZA, István;MENCZINGER, Bálint;ÉLES, János~ 33:US ~31:63/479,530 ~32:11/01/2023

2025/06478 ~ Complete ~54:SOLID FORMULATIONS AND POLYMORPHIC FORMS OF INDOLINE INHIBITORS OF KIF18A ~71:Volastra Therapeutics, Inc., 1361 Amsterdam Avenue, Suite 520, NEW YORK 10027, NY, USA, United States of America ~72: COGAN, Derek A.;DRUTMAN, Scott;MAO, Jianmin;SU, Michael~ 33:US ~31:63/486,611 ~32:23/02/2023;33:US ~31:63/486,613 ~32:23/02/2023;33:US ~31:63/611,027 ~32:15/12/2023

2025/06482 ~ Complete ~54:OXAZOLO[4,5-B]PYRAZINE AND OXAZOLO[4,5-B]PYRIDINE DERIVATIVES AS NLRP3 INHIBITORS FOR THE TREATMENT OF E.G. INFLAMMATORY DISEASES ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BON, David;BOUCHE, Lea Aurelie;GUBA, Wolfgang;JAESCHKE, Georg;MESCH, Stefanie Katharina;PATINY-ADAM, Angélique;SCHNIDER, Christian;SHANNON, Jonathan Martin;STEINER, Sandra;TOSSTORFF, Andreas Michael~ 33:EP ~31:23168774.0 ~32:19/04/2023;33:EP ~31:23207285.0 ~32:01/11/2023

2025/06448 ~ Provisional ~54:THROTTLE EXTENDER AND THROTTLE APPARATUS ~71:Hendrik Willem Troskie van Aswegen, Heuwilsig 14, South Africa;Khaya Engineering (Pty) Limited, 36 Fiat Street, Aureus, South Africa ~72: Hendrik Willem Troskie van Aswegen~

2025/06465 ~ Complete ~54:MICROFLUIDIC CHIP AND ITS PREPARATION METHOD ~71:DALIAN INTERNATIONAL TRAVEL HEALTHCARE CENTER (DALIAN CUSTOMS PORT CLINIC), NO. 60 CHANGJIANG EAST ROAD, ZHONGSHAN DISTRICT, DALIAN CITY, People's Republic of China ~72: GE, Teng;LI, Siyao;LI, Xuejun;ZHAO, Liang~

2025/06457 ~ Complete ~54:CONDITIONING DEVICE ~71:AT VDS SQUARE ACADEMY (PTY) LTD, 10 Sparrow Street, Rant en Dal, South Africa ~72: VAN DER SCHYFF, Joahnnes Zacharias~ 33:ZA ~31:2024/05353 ~32:31/07/2024

2025/06469 ~ Complete ~54:SPEECH RECOGNITION METHOD AND SYSTEM BASED ON MICROCOMPUTER ~71:XIANYANG NORMAL UNIVERSITY, NO. 1, EAST SECTION OF WENLIN ROAD, WEICHENG DISTRICT, XIANYANG CITY, People's Republic of China ~72: KONG, Xiangyu;WANG, Chunfeng;WANG, Zhen;ZHANG, Yonghong~

2025/06480 ~ Complete ~54:KRAS INHIBITORS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ABRAHAM, Adedoyin David;ANDREWS, Steven;ARONOW, Sean;BARBERIS, Mario;BASTIAN, Jolie Anne;BAUMGARTNER, Matthew Patrick;BUME, Desta;CARBALLARES MARTIN, Santiago;CHEN, Xiaohong;DILGER, Andrew;ENRIQUEZ GARCIA, Alvaro;GARCIA LOSADA, Pablo;GARZÓN SANZ, Miguel;GUO, Deqi;GUTIERREZ SANFELICIANO, Sonia Maria;HAZLITT, Robert;HENRY, James Robert;JOHNSTON, Richard Duane;KERCHER, Timothy Scott;LAMAR, Jason Eric;LAURENT CORDIER, Frederic;LUMERAS AMADOR, Wenceslao;MARCOS LLORENTE, Alicia;MOLERO FLÓREZ, Victoriano;PRIEGO SOLER, Julián;PRIETO VALLEJO, Maria Lourdes;RAJAMANI, Ramkumar;RINCON CABEZUDO, Juan Antonio;ROJO GARCIA, Isabel;SCAGGS, William Rush;VALERO DE LA CRUZ, Alberto;WALLS, Shane Michael;ZHAO, Gaiying~ 33:EP ~31:23382315.2 ~32:31/03/2023;33:EP ~31:23382531.4 ~32:02/06/2023;33:EP ~31:23382857.3 ~32:18/08/2023;33:EP ~31:23382985.2 ~32:27/09/2023;33:EP ~31:24382267.3 ~32:12/03/2024

2025/06444 ~ Provisional ~54:MULTIPLEXED ELECTROCHEMICAL BIOSENSOR FOR SIMULTANEOUS DETECTION OF HIV-1 RNA AND ANTIRETROVIRAL DRUG (DOLUTEGRAVIR) ~71:BioSensor Group Ltd, 4070W Ames Lake Dr Ne, Richmond, United States of America ~72: Zvikomborero Takunda Gwanzura~

2025/06481 ~ Complete ~54:DRUG CONJUGATES AND METHODS OF PREPARING AND USING THE SAME ~71:Adcentrx Therapeutics Inc., 5580 Morehouse Drive, Suite 210, SAN DIEGO 92121, CA, USA, United States of America;Adcentrx Therapeutics Shanghai Co. Ltd., 1st Floor, Building 2, No. 865, Zuchongzhi Road, Pudong New Area, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: GUO, Maojun;LEE, Dong Jun;LI, Richard Hui;LUO, Wenlong;WEI, Ping~ 33:IB ~31:2023/073383 ~32:20/01/2023

2025/06451 ~ Complete ~54:A BIG DATA-BASED TOURISM SERVICE DEVICE ~71:Hefei Technology College, Lieshan Road, Xinzhan District, Hefei City, Anhui Province, People's Republic of China ~72: Fu Xiaolan;Wang Cen;Wang Huan;Yang Jinxin;Zhao Hong~

2025/06459 ~ Complete ~54:PROTECTIVE DEVICE ~71:PAPENFUS, Nicholas Jacques, 19 Cuyler Street, Constantia Kloof, South Africa ~72: HINRICHSEN, Wayne John;PAPENFUS, Nicholas Jacques~

2025/06464 ~ Complete ~54:PREFUSION-STABILIZED HMPV F PROTEINS ~71:BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, 210 West 7th Street, United States of America ~72: HSIEH, Ching-Lin;MCLELLAN, Jason;RUSH, Scott;WANG, Nianshuang~ 33:US ~31:63/089,978 ~32:09/10/2020

2025/06487 ~ Provisional ~54:TO PROVIDE PROTECTIVE OILY SUBSTANCE COATING VIA VINYL STICKER APPLIED TO DSTV BOARD SURFACE TO ENSURE CONSISTENT VIEWING EVEN UNDER HEAVY RAINFALL AND THUNDERSTORMS WEATHER CONDITIONS ~71:MR THABANG GRATITUDE MAKGAHLELA, 471 MOKWENA STREET, TLHABANE, South Africa ~72: MR THABANG GRATITUDE MAKGAHLELA~

2025/06463 ~ Complete ~54:CHINESE MEDICINE ACUPUNCTURE POSITIONING DEVICE FOR TREATING PRURITUS SKIN DISEASES ~71:ANYANG HOSPITAL OF TRADITIONAL CHINESE MEDICINE, NO. 150 HONGQI ROAD, BEIGUAN DISTRICT, ANYANG CITY, People's Republic of China ~72: ZHANG, Yandong;ZHENG, Mingjuan;ZHU, Hua~

2025/06467 ~ Complete ~54:A METHOD FOR SYNTHESIS OF LA2O3:EU3+ WHITE LIGHT EMITTING PHOSPHOR ~71:BISHNOI, Swati, DEPARTMENT OF CHEMICAL ENGINEERING, IIT DELHI, NEW DELHI, 110016, India;CHARDE, Priyanka R., RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR, MAHARASHTRA, 440033, India;DHOBLE, Sanjay J., RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR, MAHARASHTRA, 440033, India;DURAGKAR, Arati, DEPARTMENT OF CHEMISTRY, SEVADAL MAHILA MAHAVIDHYLAYA, NAGPUR, MAHARASHTRA, 440009, India;KHODE, Praful P., RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR, MAHARASHTRA, 440033, India;NIKOLAY, Naumov G., INSTITUTE OF INORGANIC CHEMISTRY, SIBERIAN BRANCH OF THE RUSSIAN ACADEMY OF SCIENCE, 630090, NOVOSIBIRSK, Russian Federation ~72: BISHNOI, Swati;CHARDE, Priyanka R.;DHOBLE, Sanjay J.;DURAGKAR, Arati;KHODE, Praful P.;NIKOLAY, Naumov G.~

. - APPLIED ON 2025/08/01 -

2025/06511 ~ Complete ~54:METHOD OF HEATING A STEEL SEMI-PRODUCT IN A HEATING FURNACE, AND ASSOCIATED HEATING FURNACE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Frederik BLOMMAERT;Jan BAUWENS;Teun Arnoldus Cornelis DE RAAD;Teun Arnoldus Cornelis DE RAAD~ 33:IB ~31:PCT/IB2023/052813 ~32:22/03/2023

2025/06515 ~ Complete ~54:METHOD AND APPARATUS FOR PRODUCING ALDEHYDE ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 2 Gresham Street, LONDON EC2V 7AD, UNITED KINGDOM, United Kingdom ~72: BACKES, Adrian;WILLIAMS, Michael~ 33:GB ~31:2303617.1 ~32:13/03/2023

2025/06513 ~ Complete ~54:MULTICISTRONIC VACCINE AND METHODS FOR PRODUCING AND USING THE SAME ~71:Ocugen, Inc., 11 Great Valley Parkway, MALVERN 19355, PA, USA, United States of America ~72: DOTIWALA, Farokh J. Al;MUTHURAMU, Ilayaraja;SINGH, Dinesh Kumar;UPADHYAY, Arun Kumar~ 33:US ~31:63/447,734 ~32:23/02/2023

2025/06518 ~ Complete ~54:ENCODING METHOD, DECODING METHOD, BITSTREAM, ENCODER, DECODER AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road, Wusha, Chang'an, Dongguan, Guangdong, 523860, People's Republic of China ~72: FUZHENG YANG;JUNYAN HUO;MING LI;WENHAN QIAO;YANZHUO MA~

2025/06521 ~ Complete ~54:VIDEO ENCODING METHOD, VIDEO DECODING METHOD, AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road Wusha Chang'an, Dongguan, Guangdong, 523860, People's Republic of China ~72: FAN WANG;LAI ZHANG~

2025/06496 ~ Provisional ~54:Q-TAP ~71:Carel Steynvaard, 46 Sett Str, South Africa ~72: Carel Steynvaard~

2025/06503 ~ Complete ~54:ADVANCED SECURITY FRAMEWORK FOR PROTECTING HIDDEN DATA AND APPLICATIONS IN DIGITAL ENVIRONMENTS ~71:REYNDERS, Johan Hendrik, 3 Van Der Stel Street, Kensington B, South Africa ~72: REYNDERS, Johan Hendrik~ 33:ZA ~31:2024/03391 ~32:02/05/2024;33:ZA ~31:2025/03597 ~32:29/04/2025

2025/06500 ~ Complete ~54:ENGLISH COMPOSITION SCORING SYSTEM BASED ON NATURAL LANGUAGE PROCESSING ~71:Jinggangshan University, No. 28 Xueyuan Road, Qingyuan District, Ji'an City, Jiangxi Province, 343009, People's Republic of China ~72: GAO, Fei;LIU, Rui~

2025/06508 ~ Complete ~54:SEISMIC SAFETY EVALUATION METHOD ~71:China Institute of Water Resources and Hydropower Research, No. 20 Chegongzhuang West Road, Haidian District, Beijing 100048, People's Republic of China ~72: GUO, Shengshan;LI, Deyu;LIANG, Hui;LIU, Biao;TU, Jin;YAN, Chunli;ZHANG, Cuiran;ZHONG, Hong~ 33:CN ~31:202411417667.1 ~32:11/10/2024

2025/06512 ~ Complete ~54:A BARREL FOR FERMENTING FOODS OR BEVERAGES IN A CONTROLLED ATMOSPHERE ~71:GANTENBRINK, Bruno Alexander, Hennenbusch 1, Germany;POPA, Vitalie, 1 Uzinelor street, apartment number 6, Republic of Moldova ~72: GANTENBRINK, Bruno Alexander;POPA, Vitalie~ 33:EP ~31:23156790.0 ~32:15/02/2023

2025/06514 ~ Complete ~54:THERAPEUTIC MOLECULES COMPRISING VARIANTS OF THE EXTRACELLULAR DOMAIN OF P75 NEUROTROPHIN RECEPTOR (P75NTR) ~71:PetMedix Ltd, The Glenn Berge Building, Building 940, Babraham Research Campus, Babraham, CAMBRIDGE CB22 3FH , CAMBRIDGESHIRE, UNITED KINGDOM, United Kingdom ~72: BARDELLI, Marco~ 33:GB ~31:2301838.5 ~32:09/02/2023;33:GB ~31:2301839.3 ~32:09/02/2023;33:US ~31:18/187,377 ~32:21/03/2023;33:US ~31:18/187,414 ~32:21/03/2023

2025/06517 ~ Complete ~54:CATHODE ELECTROPHORETIC COATING HAVING HIGH CORROSION RESISTANCE, AND PREPARATION METHOD THEREFOR ~71:HLS CHEMICAL TECHNOLOGY (JIANGSU) CO., LTD, No.18 Tongwang Road, Economic And Technological Development Zone, Nantong, Jiangsu 226000, People's Republic of China;HLS PAINT (SHANGHAI) CO., LTD, No. 158 Huiping Road, Nanxiang High-tech Development Zone, Jiading District, Shanghai 201800, People's Republic of China ~72: HAODONG HU;LONGJUAN JIA;WEIWEI LIU;XIAN ZHOU;XIAOFEI LING;XINXIN DING;YING ZHAO~ 33:CN ~31:202311730225.8 ~32:15/12/2023

2025/06519 ~ Complete ~54:METHODS, ARCHITECTURES, APPARATUSES AND SYSTEMS FOR INACTIVE STATE MOBILITY FOR MULTIPATH SIDELINK RELAYING AND PATH SELECTION IN RELEASE ~71:INTERDIGITAL PATENT HOLDINGS, INC., 200 Bellevue Parkway, Suite 300, Wilmington, Delaware, 19809, United States of America ~72: ANANTH KINI;MARTINO FREDA;OUMER TEYEB;TUONG HOANG~ 33:US ~31:63/443,198 ~32:03/02/2023

2025/06522 ~ Complete ~54:INTRA TEMPLATE MATCHING PREDICTION METHOD AND APPARATUS, VIDEO CODING METHOD AND APPARATUS, VIDEO DECODING METHOD AND APPARATUS, AND SYSTEM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road, Wusha, Chang'an, Dongguan, Guangdong, 523860, People's Republic of China ~72: FAN WANG~

2025/06490 ~ Provisional ~54:TRAFFICCONNECT ~71:JP Adlem, PLOT 169, South Africa ~72: JP Adlem~

2025/06491 ~ Provisional ~54:MULTIPLEXED ELECTROCHEMICAL BIOSENSOR SYSTEM FOR RAPID, AMPLIFICATION-FREE TUBERCULOSIS DIAGNOSIS, DRUG DETECTION, AND DRUG RESISTANCE PROFILING ~71:BioSensor Group Ltd, 4070W Ames Lake Dr NE, Richmond, United States of America ~72: Zvikomborero Takunda Gwanzura~

2025/06493 ~ Provisional ~54:A MODULAR NUCLEIC ACID STABILIZATION AND SAMPLE CONCENTRATION DEVICE FOR URINE, BREATH, AND LOW-VOLUME BIOLOGICAL FLUIDS ~71:BioSensor Group Ltd, 4070W Ames Lake, Dr NE, Richmond, United States of America ~72: Zvikomborero Takunda Gwanzura~

2025/06497 ~ Provisional ~54:A PIPE COUPLING ~71:WRIGHT, John Peter, 161 Galjoen Road, Wadeville, South Africa ~72: WRIGHT, John Peter~

2025/06499 ~ Provisional ~54:NANO SILICA TEXTILE FINISHING ~71:Tiffany Mokoteli, Bells Street, 43 ,groote schuur , Erskine Terrace, South Africa ~72: Tiffany Mokoteli~

2025/06505 ~ Complete ~54:1-AMINO-1-CYCLOPROPANECARBOAYLIC ACID SOLID COMPOSITIONS ~71:Valent BioSciences LLC, 1910 Innovation Way, Suite 100, LIBERTYVILLE 60048, IL, USA, United States of America ~72: BELKIND, Benjamin A.;HUANG, Zhengyu;MCARTNEY, Steve;PETRACEK, Peter D.;SASAKAWA, Mitsuhiro;SHARMA, Parvesh;ZHEN, Yueqian~ 33:US ~31:63/144,343 ~32:01/02/2021

2025/06494 ~ Provisional ~54:MECHANICALLY SELECTIVE TERMINAL CONNECTION SYSTEM WITH BUSBAR INTEGRATION ~71:Pieter Johannes Muller, 5 Loftus Rd, South Africa ~72: Pieter Johannes Muller~

2025/06498 ~ Provisional ~54:TENDER MANAGEMENT AUTOMATED PROCESS ~71:Neurina van Graan, 13 Clydebank Crescent, South Africa ~72: Neurina van Graan~

2025/06502 ~ Complete ~54:ELECTROMAGNETIC-DRIVEN FLEXIBLE CONNECTION DEVICE AND METHOD FOR PIPE FITTINGS ~71:Huazhong University of Science and Technology, 1037 Luoyu Road, Hongshan, Wuhan, Hubei, People's Republic of China ~72: Changxing Li;Liang Li;Mengxian Li;Quanliang Cao;Xiaotao Han;Xiaoxiang Li;Zhan Tuo;Zhipeng Lai~ 33:CN ~31:2025107661041 ~32:10/06/2025

2025/06523 ~ Complete ~54:VIDEO DECODING METHOD, VIDEO ENCODING METHOD, DECODER, ENCODER AND COMPUTER-READABLE STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road, Wusha, Chang'an, Dongguan, Guangdong, 523860, People's Republic of China ~72: LUHANG XU~

2025/06504 ~ Complete ~54:IMPROVED PRODUCE CONVEYING AND SIZING EQUIPMENT ~71:REED, Lorin, P.O. Box 636, KINGSBURG 93631, CA, USA, United States of America ~72: REED, Lorin~ 33:US ~31:62/590,144 ~32:22/11/2017

2025/06507 ~ Complete ~54:THREE-DIMENSIONAL FINITE ELEMENT STATIC AND DYNAMIC ANALYSIS REINFORCEMENT CALCULATION METHOD FOR A HYDROPOWER PLANT ~71:China Institute of Water Resources and Hydropower Research, No. 20 Chegongzhuang West Road, Haidian District, Beijing 100048, People's Republic of China ~72: DENG, Guanglian;GUO, Shengshan;LI, Zhiyuan;LIANG, Hui;LIU, Biao;TU, Jin;WANG, Shaoqing;XU, Yonghui;YAN, Chunli;ZHAO, Jianjun;ZHAO, Lijun;ZHAO, Zongguo;ZHONG, Hong~ 33:CN ~31:202411512147.9 ~32:28/10/2024

2025/06510 ~ Complete ~54:COMPOUND, DIAGNOSTIC MARKER FOR STOMACH CANCER, METHOD FOR DETECTING ENZYMATIC ACTIVITY, METHOD FOR THE DIAGNOSIS OF STOMACH CANCER, KIT COMPRISING THE COMPOUND, USES OF THE COMPOUND AND METHOD FOR THE TREATMENT OF STOMACH CANCER ~71:URTESTE S.A., Ul. Starodworska 1, Poland ~72: GRUBA, Natalia;LESNER, Adam~ 33:PL ~31:P.443839 ~32:21/02/2023

2025/06516 ~ Complete ~54:ENCODING METHOD, DECODING METHOD, CODE STREAM, ENCODER, DECODER, AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang'an Dongguan, Guangdong, 523860, People's Republic of China ~72: FUZHENG YANG;HONGQING DU;JUNYAN HUO;MING LI;YANZHUO MA~

2025/06520 ~ Complete ~54:DECODING METHOD, CODING METHOD, DECODERS, AND CODERS ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road, Wusha, Chang'an, Dongguan, Guangdong, 523860, People's Republic of China ~72: FAN WANG;LAI ZHANG~

2025/06524 ~ Provisional ~54:A MULTI-PURPOSE CONVERTIBLE BAG ~71:RADSMA, Quentin, 2 Hillside Road, Kenever, Kenridge, South Africa ~72: RADSMA, Quentin~

2025/06488 ~ Provisional ~54:PLAYEASY LOTTO STOKVEL BUSINESS CASE AND MODEL OPERATING SYSTEM ~71:MAKHAZA GEORGE MNGUNI, 29 SYSIE ROAD, ROOIHUISKRAAL NORTH, South Africa ~72: MAKHAZA GEORGE MNGUNI~

2025/06558 ~ Provisional ~54:AGENT ALPHA ~71:Siyanda Gcaba, 10 East Row, Umhlanga Ridge, South Africa ~72: Siyanda Gcaba~

2025/06495 ~ Provisional ~54:HEPATOREGULATE ~71:Marno Bands, 12 D F Malherbe Avenue, Universitas, South Africa ~72: Marno Bands~

2025/06501 ~ Complete ~54:CREDENTIAL MANAGEMENT SYSTEM AND METHOD ~71:NKUNA, Banele Nelson, Stand no. 779, Matsulu, South Africa ~72: NKUNA, Banele Nelson~

2025/06506 ~ Complete ~54:TEACHING METHOD, SYSTEM AND DEVICE FOR MATERIAL EVIDENCE IDENTIFICATION, MEDIUM, AND COMPUTER PROGRAM PRODUCT ~71:DALIAN LINGLAN EDUCATION TECHNOLOGY CO., LTD., No. 604, 605, 606A, 6th floor, Liaoning Province, No. 57A Tongqing Street, Xigang District,, People's Republic of China;YUNNAN POLICE COLLEGE, Key Laboratory of Yunnan Police Academy, No. 249 North Jiaochang Road,Yunnan Province,, People's Republic of China ~72: Bin LI;Chengyun PENG;Jin CHEN;Mingzhong JIANG;Qilin HUANG;Quan WANG;Ruixue WANG;Taoren WANG;Xiaoqing LUO;Yong LIU;Yunbo WEN;Zejiao ZHOU~ 33:CN ~31:202411418743.0 ~32:11/10/2024

2025/06509 ~ Complete ~54:METHOD FOR SCREENING AROMA-PRODUCING STREPTOCOCCUS SALIVARIUS THERMOPHILUS BASED ON DIACETYL REDUCTASE ~71:China Agricultural University, No. 2 Yuanmingyuan West Road, HaiDian District, Beijing City, 100193, People's Republic of China ~72: FANG Bing;FENG Haihong;GE Shaoyang;LI Xiaoxia;SANG Yue;WANG Pengjie;WANG Ran;YANG Jianjun;ZHANG Hao;ZHAO Liang;ZHAO Zhi~ 33:CN ~31:2024110546538 ~32:02/08/2024

2025/06617 ~ Provisional ~54:SMARTSHAPEX – BLUETOOTH-ENABLED PRECISION HANDHELD NAIL SHAPING DEVICE WITH SLIDING FINGER SLOT, NAIL SCANNING, AND SENSOR-CONTROLLED GUIDED FILING ~71:Yumnah Daniels, 4 School End Street, South Africa ~72: Yumnah Daniels~

. - APPLIED ON 2025/08/04 -

2025/06560 ~ Provisional ~54:FOCUSED ACOUSTIC FUSION ~71:William Henry John Field, 87 Fordyce Road, South Africa ~72: William Henry John Field~ 33:ZA ~31:7 ~32:01/08/2025

2025/06586 ~ Provisional ~54:SIM-BASED OFFLINE CRYPTOCURRENCY TRANSACTION SYSTEM WITH PEER-PEER RELAY NETWORK ~71:FRANCOIS PIERRE JOUBERT, 521,20th AVE, RIETFONTEIN, South Africa;MARCO SMIT, 521,20th AVE,RIETFONTEIN, South Africa ~72: FRANCOIS PIERRE JOUBERT;MARCO SMIT~

2025/06677 ~ Provisional ~54:BIOMETRIC VEHICLE START CONCEPT ~71:Strinivasen Govender, 160 Derby Drive, South Africa ~72: Strinivasen Govender~ 33:ZA ~31:0000 ~32:01/08/2025

2025/06528 ~ Provisional ~54:SYSTEM AND METHOD FOR MANAGING PRESCRIPTIONS ~71:JACQUES LUBBE, Plot S28, South Africa ~72: JACQUES LUBBE~

2025/06538 ~ Complete ~54:METHOD, SYSTEM, AND MEDIUM FOR MULTI-DIMENSIONAL DATA CLASSIFICATION AND GRADING BASED ON LOGISTIC REGRESSION ~71:COSCO SHIPPING TECHNOLOGY(BEIJING) CO., LTD., Room 15A, Block F, Fuhua Building, No. 8 Chaoyangmen North Street, Dongcheng District, People's Republic of China ~72: LI, Aicheng;LI, Haoning;LIU, Wenwen;REN, Xin;SUN, Zhe;TAN, Yan;WEI, Mingming;WU, Xiaofeng;XIE, Miaomiao;YANG, Tao;YAO, Lianjie;YUAN, Meng;ZHANG, Chaohui;ZHANG, Hui~ 33:CN ~31:2025108173581 ~32:18/06/2025

2025/06544 ~ Complete ~54:CENTRIFUGAL MECHANICAL POWER ENHANCER ~71:LI Mingbo, No. 3, Lane 2, Anle Street, Tengzhou City, Shandong Province, 277500, People's Republic of China ~72: LI Mingbo~

2025/06553 ~ Complete ~54:A DOUBLE COLD ROLLED NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061525 ~32:15/11/2023

2025/06533 ~ Complete ~54:APPLICATION OF PEPTIDE MARKER FOR AUTHENTICATING STINGLESS BEE HONEY ~71:Animal Husbandy and Fishery Service Center of Baoting Li and Miao Autonomous County, Animal Husbandry and Aquatic Products Building, Jianxin Road, Baocheng Town, Baoting Li and Miao Autonomous County, Hainan Province, 572399, People's Republic of China;Environment and Plant Protection Institute, Chinese Academy of Tropical Agricultural Sciences, No.4 Xueyuan Road, Longhua District, Haikou City, Hainan Province, 571101, People's Republic of China;Hainan Jiexi Agriculture Technology Co., Ltd, No.28 Furen Road, Tiantou Village, Foluo Town, Ledong Li Autonomous County, Hainan Province, 571199, People's Republic of China;Institute of Apicultural Research, Chinese Academy of Agricultural Sciences, No.1 Xiangshan Beigou, Haidian District, Beijing, 100093, People's Republic of China;Sanya Research Institute, Chinese Academy of Tropical Agricultural Sciences, Zone 235, Floor 3, Creative Industry Standard Workshop Phase II, Yazhou District, Sanya City, Hainan Province, 572000, People's Republic of China ~72: HU, Han;LI, Ying;PENG, Huixian;WANG, Shijie;WU, Jiao;ZHAO, Shan~ 33:CN ~31:202510527421.8 ~32:25/04/2025

2025/06537 ~ Complete ~54:PREPARATION METHOD OF EEL BONE PEPTIDE AND APPLICATION THEREOF ~71:CIIMBIO (SUZHOU) Co., Ltd., Room 406, 4th Floor, Building 1, Ideal Innovation Building, No. 69 Jiuzhang Road, Suzhou Industrial Park, Suzhou, People's Republic of China ~72: Junhu LI;Songlin YANG~

2025/06545 ~ Complete ~54:PACKAGED FULLY-AUTOMATIC PACKAGING ROBOT FOR INNER AND OUTER BAGS AND METHOD THEREFOR ~71:Guangxi Machinery Industry Research Institute Co., Ltd., No. 3, Gaoxin 2nd Road, Xixiangtang District, Nanning City, Guangxi Zhuang Autonomous Region, People's Republic of China ~72: CHEN Yishi;DU Yongyi;HUANG Lixian;MAO Jun;MO Dongwei;WU Xiangning;ZHOU Li~ 33:CN ~31:2025107602397 ~32:09/06/2025

2025/06551 ~ Complete ~54:A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061523 ~32:15/11/2023

2025/06555 ~ Complete ~54:A DOUBLE COLD ROLLED NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061529 ~32:15/11/2023

2025/06526 ~ Provisional ~54:“SYSTEM AND METHOD FOR COMMUNITY-DRIVEN ENERGY PROFILING, INCENTIVISATION, AND SUBSIDISATION USING DYNAMIC QR CODES AND RENEWABLE ENERGY DONATIONS” ~71:Dr. Gustav Bock, Plot 4681, C/O Diamant & Toermalyn Street, South Africa ~72: Dr. Gustav Bock~

2025/06552 ~ Complete ~54:SORBENT POLYMER COMPOSITE FOR IMPROVED SO2 REMOVAL ~71:W. L. GORE & ASSOCIATES, INC., 555 Paper Mill Road, Newark, Delaware, 19711, United States of America ~72: FRANZ J SHELLEY;LISANDRA ARROYO RAMIREZ;RYAN C KENALEY;XIAO-CHUN LU~ 33:US ~31:63/449,645 ~32:03/03/2023

2025/06527 ~ Provisional ~54:PRESSURE CONTROL VALVE CARTRIDGE ~71:CRAFFORD, Ryno Adolf, 196 Van Riebeeck Avenue, South Africa ~72: GOOSEN, Cornelius Johannes~

2025/06535 ~ Complete ~54:METHOD FOR REMEDIATING CONTAMINATED SOIL USING NITROGEN-FIXING BACTERIA ~71:ZHEJIANG UNIVERSITY, No. 866, Yuhang Tang Road, Xihu District, Hangzhou City, Zhejiang Province, Zhejiang University, Purple Garden Campus, People's Republic of China ~72: DAI, Zhongmin;HE, Dan;HUANG, Shuyi;WANG, Sixian~

2025/06547 ~ Complete ~54:PLAKOPHILIN-2 (PKP2) GENE THERAPY USING AAV VECTOR ~71:Spacecraft Seven, LLC, 9 Cedar Brook Drive, CRANBURY 08512, NJ, USA, United States of America ~72: HERZOG, Christopher Dean;PRABHAKAR, Raj;RICKS, David;SACRAMENTO, Chester Bittencort~ 33:US ~31:63/437,616 ~32:06/01/2023;33:US ~31:63/460,557 ~32:19/04/2023;33:US ~31:63/525,426 ~32:07/07/2023

2025/06532 ~ Provisional ~54:METHOD FOR ANALYSING FEMALE HEALTH CONDITIONS ~71:GABRIELLE DUPONT, 15 SIMBA ROAD SUNNINGHILL, South Africa ~72: GABRIELLE DUPONT~

2025/06543 ~ Complete ~54:MOTION DETECTION DEVICE BASED ON COMPUTER VISION ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: LIAO, Zhongming;LIU, Jianbang;XIANG, Zhongqi;XU, Xiuhong;XU, Zhaosheng~ 33:CN ~31:2025107210367 ~32:30/05/2025

2025/06548 ~ Complete ~54:IONIZABLE CATIONIC COMPOUND ~71:Seqirus Inc., 475 Green Oaks Parkway, HOLLY SPRINGS 27540, NC, USA, United States of America ~72: TYE, Ching Kim;YANG, Cangjie~ 33:US ~31:63/484,026 ~32:09/02/2023;33:US ~31:63/593,680 ~32:27/10/2023

2025/06554 ~ Complete ~54:A DOUBLE COLD ROLLED NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061531 ~32:15/11/2023

2025/06536 ~ Complete ~54:PREPARATION METHOD FOR ENZYMATICALLY HYDROLYZED CONCENTRATE OF PHYLLANTHUS EMBLICA AND APPLICATION THEREOF ~71:CIIMBIO (SUZHOU) Co., Ltd., Room 406, 4th Floor,Building 1, Ideal Innovation Building, No. 69 Jiuzhang Road, Suzhou Industrial Park, Suzhou, People's Republic of China ~72: Junhu LI;Songlin YANG~

2025/06525 ~ Provisional ~54:VERIFYDL 001 ~71:Sizwe Mthethwa, EWELA GEZIZANDLA AREA, South Africa ~72: SIZWE MTHETHWA~

2025/06550 ~ Complete ~54:A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061535 ~32:15/11/2023

2025/06556 ~ Complete ~54:INDUCIBLE CONSTRUCTS ~71:OUTPACE BIO, INC., 700 Dexter Ave N, Suite 300, United States of America ~72: CROWL, Ty;HAESELEER, Francoise J.;HAMMER, Jared Louis;KIRKPATRICK, Robin L.;MOFFETT, Howell;NG, Andrew Howen;SAMPLE, Paul Joseph~ 33:US ~31:63/479,176 ~32:09/01/2023;33:US ~31:63/479,177 ~32:09/01/2023;33:US ~31:63/479,178 ~32:09/01/2023

2025/06530 ~ Provisional ~54:ARTIFICIAL INSTRUCTION SYMBOLIC LANGUAGE (AISL) SYSTEM FOR TOKEN-EFFICIENT MULTI-LARGE-LANGUAGE-MODEL ORCHESTRATION AND EXECUTION ~71:Neill Human, 11 Maggie Laubser, South Africa ~72: Neill Human~

2025/06541 ~ Complete ~54:DIGITAL ECONOMIC STATISTICS SYSTEM AND METHOD ~71:Shan LIU, Building 3, No. 36, Chaoyang North Road, Chaoyang District, Beijing, 100000, People's Republic of China ~72: Shan LIU~ 33:CN ~31:2025107825681 ~32:12/06/2025

2025/06529 ~ Provisional ~54:LOAD MEASURING AND LOAD INDICATOR DEVICE - LOAD CELL ~71:Frans Roelof Petrus Pienaar / Mark Howell, 10 Vegkop Street, Noordheuwel, South Africa ~72: Frans Roelof Petrus Pienaar / Mark Howell~

2025/06531 ~ Provisional ~54:RETAINER MESH ASSEMBLY ~71:CLEAR CREEK TRADING 167 (PTY) LTD., 11 Brammer Street, South Africa ~72: VAN DER MERWE, Lukas Cornelius~

2025/06539 ~ Complete ~54:A METHOD AND PROCESS FOR MAKING MUTTON STEW ~71:Huaxian Jiudai Wensheng Food Trading Co., Ltd., North side of the middle section of Daokang Road, Wuxing Village, Daokou Town, Huaxian County, Anyang City, Henan Province, 456400, People's Republic of China ~72: Hongbiao Wang;Zhengzhi Wang;Ziyan Li~

2025/06542 ~ Complete ~54:SPINDLE-LESS RUNNING GEAR ASSEMBLY FOR VEHICLES ~71:TIMBREN INDUSTRIES, INC., 320 HOPKINS STREET, WHITBY, ONTARIO L1N2B9, CANADA, Canada ~72: REZANIA, Parto~ 33:US ~31:U.S. 63/679,193 ~32:05/08/2024;33:US ~31:U.S. 63/823,407 ~32:13/06/2025

2025/06546 ~ Complete ~54:BAG OPENING SUCTION CUP DEVICE ~71:Guangxi Machinery Industry Research Institute Co., Ltd., No. 3, Gaoxin 2nd Road, Xixiangtang District, Nanning City, Guangxi Zhuang Autonomous

Region, People's Republic of China ~72: CHEN Yishi;DU Yongyi;HUANG Lixian;MO Dongwei;WU Xiangning~ 33:CN ~31:202510760240X ~32:09/06/2025

2025/06557 ~ Complete ~54:A DOUBLE COLD ROLLED NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061536 ~32:15/11/2023

2025/06559 ~ Provisional ~54:SPARE WHEEL LOCK ~71:Meyer Swanepoel, 906 Riethaan street, South Africa ~72: Meyer Swanepoel~

2025/06534 ~ Complete ~54:CROP TREATMENT METHOD ~71:CHEMPAC (PTY) LTD, Simondium Road, Suider Paarl, South Africa ~72: Christiaan Otto FRIELINGSDORF~ 33:ZA ~31:2024/05999 ~32:05/08/2024

2025/06540 ~ Complete ~54:METHOD FOR ONLINE EVALUATION OF DATA RESOURCE VALUE ~71:Shan LIU, Building 3, No. 36, Chaoyang North Road, Chaoyang District, Beijing, 100000, People's Republic of China ~72: Shan LIU~ 33:CN ~31:2025106082287 ~32:13/05/2025

2025/06549 ~ Complete ~54:METHODS AND COMPOSITIONS FOR GENE TRANSDUCTION AND TO CONTROL THE ACTIVITY OF SYNTHETIC AND IMMUNE RECEPTORS ~71:ANGELES THERAPEUTICS, INC., 4606 Arcola Avenue, Toluca Lake, United States of America ~72: CHAUDHARY, Preet M.~ 33:US ~31:63/478,612 ~32:05/01/2023

2025/06561 ~ Provisional ~54:SYSTEM AND METHOD FOR DYNAMIC AUGMENTED REALITY EXPERIENCES LINKED TO PERSONALIZED PHYSICAL MEDIA ~71:Santh Munsamy, 107 Lawnhaven Avenue, South Africa ~72: Santh Munsamy~ 33:ZA ~31:n/a ~32:01/08/2025

. - APPLIED ON 2025/08/05 -

2025/06562 ~ Provisional ~54:TOP MARKS AI ~71:BSJD (Pty) Ltd, 9 ST JOHNS AVE, Walmer, South Africa ~72: Brandon Schonknecht~

2025/06563 ~ Provisional ~54:AI-AUGMENTED HEAVY EQUIPMENT LEASING AND GROUP FINANCING MARKETPLACE ~71:Trinity Technologies, 6 Windsor Avenue, Umhlanga Ridge, South Africa, South Africa ~72: Siyanda Gcaba~

2025/06566 ~ Provisional ~54:P2P PROP APP ~71:Morne Leukes, 2 Kwikkie street, South Africa ~72: Morne Leukes~

2025/06568 ~ Complete ~54:LITHIUM BATTERY RECYCLING APPARATUS ~71:NINGBO POLYTECHNIC UNIVERSITY, No. 388 Lushan East Road, Ningbo Economic and Technological Development Zone, People's Republic of China ~72: HUANG, Yuliang~

2025/06575 ~ Complete ~54:UNATTENDED FULL-AUTOMATIC IMMUNOBLOTTING DETECTION SYSTEM AND METHOD ~71:HANGZHOU ZHEDA DIXUN BIOLOGICAL GENE ENGINEERING CO., LTD., Rm. 201-209, Bldg. 2, No. 568 Binkang Rd., Binjiang Dist., Hangzhou, People's Republic of China ~72: JIANG, Xuehan;LIU, Yi;WANG, Jiping;WANG, Yifei;WU, Jianye;WU, Shandong;WU, Zhoujie;YANG, Xukai;ZHU, Mingzhi~

2025/06580 ~ Complete ~54:CYCLOPROPANECARBOXYLIC ACID ESTER COMPOUND AND USE THEREOF ~71:SUMITOMO CHEMICAL COMPANY, LIMITED, 2-7-1 Nihonbashi Chuo-ku, Tokyo, 103-6020, Japan ~72: YASUSHI KATAGIRI~ 33:JP ~31:2023-024186 ~32:20/02/2023

2025/06581 ~ Complete ~54:REINFORCING COMPOSITE MATERIAL ~71:HYPER FIBERS S.R.L., Via G.B. Aleotti, 5/B, 44011, Argenta (FE), Italy ~72: NICOLA BRUSA~ 33:IT ~31:102023000003453 ~32:27/02/2023

2025/06583 ~ Complete ~54:COMBINATION OF BTN3A ACTIVATING ANTIBODY AND IMMUNE CHECKPOINT INHIBITORS ~71:IMCHECK THERAPEUTICS, 31 Chemin Joseph Aiguier, 13009, Marseille 9e arrondissement, France ~72: AUDE DE GASSART;KIEU-SUONG LE~ 33:EP ~31:23305243.0 ~32:23/02/2023

2025/06567 ~ Complete ~54:PLANTING ARRANGEMENT ~71:BONVIGNE (PTY) LTD, Doornrivier, South Africa;HJMFT T/A ANKERKAROO (PTY) LTD, Farm 42/95, South Africa ~72: Juan-Pierree BENCE~ 33:ZA ~31:2024/06000 ~32:05/08/2024

2025/06569 ~ Complete ~54:A COMPOSITION FOR TREATING INTESTINAL CELL DAMAGE CAUSED BY MYCOTOXINS AND ITS APPLICATION ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: GUO, Hongwei;HUANG, Weiwei;LIU, Chaoqi;WANG, Yuzhe;WU, Xianchao;XU, Yunxiang~

2025/06571 ~ Complete ~54:METHOD AND APPARATUS FOR GENERATING FROM A COEFFICIENT DOMAIN REPRESENTATION OF HOA SIGNALS A MIXED SPATIAL/COEFFICIENT DOMAIN REPRESENTATION OF SAID HOA SIGNALS ~71:DOLBY INTERNATIONAL AB, Apollo Building, 3E, Herikerbergweg 1-35, NL-1101, CN Amersterdam Zuidoost, Netherlands ~72: ALEXANDER KRUEGER;SVEN KORDON~ 33:EP ~31:13305986.5 ~32:11/07/2013

2025/06577 ~ Complete ~54:A SYSTEM FOR PARKING ONE OR MORE VEHICLES ~71:Narinder Kaur, 01-C, Majithia Enclave,, Patiala, Punjab, 147001, India;Palwinder Singh, 984, Phase 3 B 2, Sector-60, SAS Nagar, Mohali, Punjab, 160059, India ~72: Narinder Kaur;Palwinder Singh~ 33:IN ~31:202311007740 ~32:07/02/2023

2025/06564 ~ Provisional ~54:LEQON ~71:Leon Mettler, 11 Bellhome Street, Highbury, Kuilsriver, South Africa ~72: Leon Mettler~

2025/06565 ~ Provisional ~54:AI-POWERED TENDER DISCOVERY AND EMPOWERMENT PLATFORM WITH DISTRIBUTED MICRO-TASK PREPARATION ~71:Trinity Technologies, 6 Windsor Avenue, Umhlanga Ridge, South Africa, South Africa ~72: Siyanda Gcaba~

2025/06572 ~ Complete ~54:THREE-DIMENSIONAL GEOSTRESS NUMERICAL SIMULATION METHOD BASED ON DEEP-SHALLOW DYNAMIC BIDIRECTIONAL COUPLING ~71:Ocean University of China, No.238 Songling Road, Laoshan District, Qingdao City, Shandong Province, 266100, People's Republic of China ~72: Li, Yanxi;Lin, Haona;Liu, Yifeng;Liu, Ze;Lu, Kaiyue;Shu, Pengcheng;Wang, Pengcheng;You, Yixun;Zhang, He~ 33:CN ~31:2025106188313 ~32:14/05/2025

2025/06574 ~ Complete ~54:RECOMBINANT LACTOCOCCUS LACTIS NZ9000 AND USE THEREOF ~71:INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES, No.22 Zhaojun Road, Yuquan District, Hohhot City, People's Republic of China ~72: GAO, Tian;GAO, Wa;HAN, Pingan;HE, Lei;HUANG, Yao;LIU, Boying;MA, Jie;QI, Buri;REN, Gangqiang;SU, Shaofeng;SUN, Lin;WANG, Xiao;YANG, Bin;YU, Biao;YUE, Linfang;ZHANG, Enxi;ZHAO, Xiaoqing~

2025/06579 ~ Complete ~54:CYCLOPROPANECARBOXYLIC ACID ESTER COMPOUND AND USE THEREOF ~71:SUMITOMO CHEMICAL COMPANY, LIMITED, 2-7-1 Nihonbashi Chuo-ku, Tokyo, 103-6020, Japan ~72: TATSUYA MORI~ 33:JP ~31:2023-024187 ~32:20/02/2023

2025/06582 ~ Complete ~54:CONTINUOUS BELT FOR BELT-TYPE SEPARATOR DEVICES ~71:ST EQUIPMENT & TECHNOLOGY LLC, 101 Hampton Avenue, Needham, Massachusetts, 02494, United States of

America ~72: DAVID SCHAEFER;JOSE L RIVERA-ORTIZ;LEWIS BAKER;THOMAS NEWMAN~ 33:US ~31:63/452,614 ~32:16/03/2023

2025/06576 ~ Complete ~54:AEROSOL-GENERATING DEVICE WITH IDENTIFICATION PATTERN ARTICLE DETECTION ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BEEBY, Joseph Guy;COHEN, Mark Joseph;GATTONI, Lucas;MORRISON, Euan;SEREDA, Alexandra~ 33:EP ~31:23173061.5 ~32:12/05/2023

2025/06573 ~ Complete ~54:DETACHABLE ODOR-REMOVAL AND INSECT-REPELLING DEVICE FOR PIGSTIES ~71:Anchee (Shandong) Animal Nutrition Research Institute Co., Ltd., Room 02, Building 5, Plot 5, Yinfeng Biological Industrial Park, No.1177 Chunlan Road, High-tech Zone, Jinan City, Shandong Province, People's Republic of China;Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.23788 Industrial North Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: DU Yushi;GUO Jianfeng;LIAO Yuxue;LIU Xiaohui;WANG Ran;XIE Qingzhu~

2025/06584 ~ Complete ~54:MILVEXIAN PHARMACEUTICAL COMPOSITIONS ~71:Bristol-Myers Squibb Company, Route 206 & Province Line Road, PRINCETON 08543, NJ, USA, United States of America;Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: ANDERSEN, Sune;DRIESEN, Regina;VAES, Elise;VAN DROOGENBROECK, Annelien;VAN SNICK, Bernd;VANHOUTTE, Filip~ 33:US ~31:63/483,486 ~32:06/02/2023

2025/06570 ~ Complete ~54:PIG WEIGHING CAGE WITH CONVENIENTLY OPERABLE DOOR ~71:Anchee (Shandong) Animal Nutrition Research Institute Co., Ltd., Room 02, Building 5, Plot 5, Yinfeng Biological Industrial Park, No.1177 Chunlan Road, High-tech Zone, Jinan City, Shandong Province, People's Republic of China;Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.23788 Industrial North Road, Licheng District, Jinan City, Shandong Province, People's Republic of China ~72: DU Yushi;GUO Jianfeng;LIAO Yuxue;LIN Haichao;LIU Xiaohui;WANG Huaizhong;WANG Ran;XIE Qingzhu;ZHAO Xueyan~

2025/06578 ~ Complete ~54:SUBSTANCE (HATCHING ACCELERATOR) ACCELERATING HATCHING OF CYST NEMATODES ~71:HIROTSU BIO SCIENCE INC., 22F, The New Otani GARDEN COURT, 4-1 Kioicho, Chiyoda-ku, Tokyo, 1020094, Japan ~72: REN TANIMOTO;SHIGEFUMI YOKOTA~ 33:JP ~31:2023-004655 ~32:16/01/2023

2025/06585 ~ Complete ~54:APPARATUS FOR CRACKING A GYPSUM MATRIX OF A GYPSUM-BASED PANEL ~71:SAINT-GOBAIN PLACO, Tour Saint-Gobain, 12 place de l'Iris, France ~72: ROSTRON, Tom~ 33:EP ~31:23305401.4 ~32:23/03/2023

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2025/06719 ~ Provisional ~54:ITHUBA ~71:TAUNYANE STEPHEN NKITSENG, 12 SIBEKO STREET, PHIRITUNA, South Africa ~72: TAUNYANE STEPHEN NKITSENG~

2025/06593 ~ Complete ~54:DATA ACQUISITION AND ANALYSIS METHOD FOR ROADWAY SURFACE DISPLACEMENT ~71:North China Institute of Science and Technology, No. 467, Xueyuan Street, Yanjiao, Langfang City, Hebei Province, People's Republic of China;Shaanxi Xunyi Qinggangping Mining Co., Ltd, Qinggangping Coal Mine, Shimen Village, Qingyuan Town, Xunyi County, Xianyang City, Shaanxi Province, People's Republic of China ~72: Dong Haofu;Fan Hongqing;Kong Lingtao;Li Nan~

2025/06596 ~ Complete ~54:CARBON STEEL COMPOSITE MATERIAL, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:AGRICULTURAL EQUIPMENT INSTITUTE OF HUNAN, Science And

Technology Exchange Center, Hunan Academy Of Agricultural Sciences, No. 892, Yuanda Second Road, Furong District, Changsha, Hunan, 410125, People's Republic of China;CENTRAL SOUTH UNIVERSITY OF FORESTRY AND TECHNOLOGY, No.498 Shaoshan South Road, Tianxin District, Changsha, Hunan, 410004, People's Republic of China ~72: LI, Ming;LI, Mingxi;LI, Xingong;LIU, Xiubo;LIU, Zhiyuan;MENG, Yuan;YANG, Chaomin~ 33:CN ~31:202410610925.1 ~32:16/05/2024

2025/06606 ~ Complete ~54:FILTER FABRIC FOR FILTRATION PLATES ~71:FILTROS INDUSTRIALES, S.L., CL JOAN MONPE6, Spain ~72: ALCALA ALVAREZ, Daniel;BERBET DE PAULA, Maria Eduarda;NOMEN GALOFRE, Nicolas~

2025/06614 ~ Complete ~54:TRISPECIFIC ANTIGEN-BINDING MOLECULE AND USE THEREOF ~71:SHANGHAI QILU PHARMACEUTICAL RESEARCH AND DEVELOPMENT CENTRE LTD., Building 1, No. 576 Libing Road, No. 56 Faraday Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai, 201203, People's Republic of China ~72: HONGLIANG QIAN;JUAN LUO;LIUQING YANG~ 33:CN ~31:202310100368.4 ~32:07/02/2023

2025/06589 ~ Provisional ~54:A TRANSFORMABLE WORKSPACE ~71:UNIVERSITY OF SOUTH AFRICA, PRELLERSTREET, MUCKLENEUK, PRETORIA 0002, South Africa ~72: POELINCA, Desire~

2025/06605 ~ Complete ~54:ANTI-CD25 ANTIGEN-BINDING PROTEINS AND USES THEREOF ~71:ODYSSEY THERAPEUTICS, INC., 51 Sleeper Street, Suite 800, United States of America ~72: FRANCHI, Luigi;HUBER, Ferdinand;KÖNIG, Paul-Albert;OPIPARI, Anthony W.;PREISS, Laura;SEIFRIED, Annegrit~ 33:US ~31:63/452,000 ~32:14/03/2023

2025/06610 ~ Complete ~54:MACROCYCLIC OREXIN RECEPTOR AGONISTS AND USES THEREOF ~71:Jazz Pharmaceuticals Ireland Limited, Waterloo Exchange, Waterloo Road, DUBLIN 4, IRELAND, Ireland ~72: CAIN, Ricky Michael;CARNEVALE, Gennaro;CHOVATIA, Prafulkumar;DELMONTE, Marco;DI FRUSCIA, Paolo;DI GUGLIELMO, Bruno;FIORUCCI, Diego;LESLIE, Colin Philip;MARINELLI, Davide;MERLINI, Valentina;MODICOM, Florian;OUVRY, Gilles;PIZZI, Domenica Antonia;PIZZOLATO, Stefano;ZANFORLIN, Enrico~ 33:US ~31:63/442,247 ~32:31/01/2023

2025/06615 ~ Complete ~54:CLOSURE FOR A CONTAINER ~71:THISCAP INC., 2208 Madagascar Lane, Las Vegas, Nevada, 89117, United States of America ~72: MICHAEL MAGUIRE~ 33:EP ~31:23159480.5 ~32:01/03/2023

2025/06618 ~ Provisional ~54:MC-PULSE ~71:Charlton Melvin Edward McKay, 8 Spitfire Crescent Zonnendal Kraaifontein, South Africa ~72: Charlton Melvin Edward McKay~

2025/06704 ~ Complete ~54:APPARATUS, SYSTEM, AND METHOD FOR DETERMINING GEOTECHNICAL PARAMETERS USING PULSED NEUTRONS ~71:RESEARCH INSTITUTE OF TSINGHUA UNIVERSITY IN SHENZHEN, High-tech Industrial Village, Yuehai Street, Nanshan District, Shenzhen, People's Republic of China ~72: JIANG, Zhengbo;LI, Ya;PANG, Xishun;SUN, Luwei;ZHANG, Zijian~ 33:CN ~31:202411945056.4 ~32:27/12/2024

2025/06587 ~ Provisional ~54:BEVERAGE CAN DOME MODIFICATION ~71:Martin Hempel, 138 Villiers Road, South Africa ~72: Martin Hempel~

2025/06591 ~ Complete ~54:METHOD FOR PREVENTING EARLY POWDERY MILDEW OF CUCUMIS MELO L. ~71:SHANDONG ACADEMY OF AGRICULTURAL SCIENCE, NO. 23788, INDUSTRIAL NORTH ROAD, People's Republic of China ~72: HAN, Yujuan;SONG, Jiping;WANG, Xiao;WEN, Dan;YANG, Ning;ZHAO, Xu~

2025/06594 ~ Complete ~54:FLOW BATTERY SYSTEM ~71:VENTURE LENDING & LEASING VIII, INC., AKA WTI, 104 La Mesa Drive, Suite 102, Portola Valley, California, 94028, United States of America ~72: BRIAN AHER;ERIK K. L JOHNSON;GUANGUANG XIA;JASON I CRUZ;JINFENG WU;JONATHAN HORNER;KATHRYN M OSEEN-SENDA;RICHARD O WINTER~ 33:US ~31:62/607,842 ~32:19/12/2017

2025/06601 ~ Complete ~54:SYSTEMS FOR DELIVERY OF LIQUID PHARMACEUTICAL COMPOSITIONS IN PARTICULAR COMPRISING ONE OR MORE SGLT-2 INHIBITOR(S) ~71:BOEHRINGER INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany ~72: LEHNER, Stefan Johannes;WEILER, Claudius~ 33:EP ~31:23160128.7 ~32:06/03/2023

2025/06604 ~ Complete ~54:IDENTIFICATION AND/OR TRACKING INSERT FOR DRILLING CONSUMABLES AND SYSTEMS AND APPARATUSES COMPRISING SAME ~71:BOART LONGYEAR MANUFACTURING AND DISTRIBUTION INC., 2455 South 3600 West, United States of America ~72: DRENTH, Christopher L.;HOGAN, Jeff;INGMARSSON, Karl;MATKAR, Tushar~ 33:US ~31:63/479,591 ~32:12/01/2023

2025/06609 ~ Complete ~54:NEW IRON AND ACACIA GUM ORAL COMPOSITIONS, PROCESS FOR THEIR PREPARATION AND THEIR USE IN IRON DEFICIENCY CONDITIONS ~71:PharmaNutra S.p.A., Via Campodavela 1, PISA 56122, ITALY, Italy ~72: BRILLI, Elisa;LACORTE, Andrea;TARANTINO, Germano~ 33:IT ~31:102023000001983 ~32:07/02/2023;33:IT ~31:102023000001989 ~32:07/02/2023;33:IT ~31:102023000001998 ~32:07/02/2023

2025/06600 ~ Complete ~54:PHENYL TRIAZINE CO-STABILIZERS FOR STABILIZED POLYURETHANES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: GERSTER, Michèle;HERBST, Heinz;HUBER, Gregor;TARTARINI, Cinzia;WEYLAND, Tania~ 33:EP ~31:23151689.9 ~32:16/01/2023

2025/06603 ~ Complete ~54:FUSION PROTEIN ~71:LEVICEPT LIMITED, Innovation House, Discovery Park, United Kingdom ~72: WESTBROOK, Simon~ 33:GB ~31:2301797.3 ~32:08/02/2023

2025/06612 ~ Complete ~54:INSULATED CONTAINER ASSEMBLIES AND LID ASSEMBLY ~71:YETI COOLERS, LLC, 7601 Southwest Parkway, Austin, Texas, 78735, United States of America ~72: COLIN DARLING;DANIEL R DIDOMENICO;DUSTIN R BULLOCK~ 33:US ~31:18/166,523 ~32:09/02/2023

2025/06616 ~ Complete ~54:LIQUID EXTRACT FROM SPRIGS AND/OR TWIGS OF MORUS ALBA L. AND RELATED TOPICAL COMPOSITIONS FOR THE PREVENTION AND TREATMENT OF SKIN AGEING ~71:UNIFARCO S.P.A., Via Cal Longa 62, 32035, Santa Giustina BL, Italy ~72: GIOVANNI BARATTO;SARA FERRARI~ 33:IT ~31:102023000001920 ~32:06/02/2023

2025/06595 ~ Complete ~54:A HYDRO-MECHANICAL DRAWING SYSTEM AND METHOD FOR INVESTIGATING DEFORMATION BEHAVIOUR OF ALLOYS ~71:Dr. Binayaka Nahak, Assistant Professor, Department of Mechanical Engineering, Motilal Nehru National Institute of Technology Allahabad, Uttar Pradesh, 211004, India;Dr. Harinder Singh, Associate Professor, Department of Chemical Engineering, Motilal Nehru National Institute of Technology Allahabad, Uttar Pradesh, 211004, India;Puneet Kumar Sonker, 85A/1 Chhota Baghada, Prayagraj, Uttar Pradesh, 211002, India;Shailesh Pratap Vishwakarma, Technician, Motilal Nehru National Institute of Technology Allahabad, Uttar Pradesh, 211004, India ~72: Dr. Binayaka Nahak;Dr. Harinder Singh;Puneet Kumar Sonker;Shailesh Pratap Vishwakarma~ 33:IN ~31:202511057748 ~32:16/06/2025

2025/06608 ~ Complete ~54:NEW IRON AND SODIUM PYROPHOSPHATE ORAL COMPOSITIONS, PROCESS FOR THEIR PREPARATION AND THEIR USE IN IRON DEFICIENCY CONDITIONS ~71:PharmaNutra S.p.A., Via Campodavela 1, PISA 56122, ITALY, Italy ~72: BRILLI, Elisa;LACORTE,

Andrea;TARANTINO, Germano~ 33:IT ~31:102023000001983 ~32:07/02/2023;33:IT ~31:102023000001989 ~32:07/02/2023;33:IT ~31:102023000001998 ~32:07/02/2023

2025/06688 ~ Complete ~54:MARSI RISK PREDICTION METHOD AND SYSTEM FOR ADULT ICU PATIENT ~71:SICHUAN PROVINCIAL PEOPLE'S HOSPITAL, No. 32, West second Section, 1st Ring Road, Qingyang District, People's Republic of China ~72: DU, Jie~ 33:CN ~31:202411192363X ~32:28/08/2024

2025/06588 ~ Provisional ~54:DIGITAL SLOT BASED PROPERTY INVESTMENT AND RESALE SYSTEM ~71:Michael Ojonugwa Jerome, 403 El Rio, Building No 1, 315 Main Road, South Africa ~72: Michael Ojonugwa Jerome~

2025/06590 ~ Provisional ~54:A SYSTEM FOR MANAGING PEER-CONTRIBUTED LIFE INSURANCE PAYOUTS ~71:EPHRAIM JAMESON, 9 Elphil Place, 12 The Avenue, Orchards, Johannesburg, Gauteng, 2192, South Africa;YEHUDA AHARON GOLDBERG, 58 Elray Street, Fairmount, Johannesburg, Gauteng, 2192, South Africa ~72: EPHRAIM JAMESON;YEHUDA AHARON GOLDBERG~

2025/06598 ~ Complete ~54:SOLID CORE LESS-LETHAL PROJECTILE ~71:UMAREX GMBH & CO. KG, DONNERFELD 2, ARNSBERG 59757, GERMANY, United States of America ~72: NELSON, Darren~ 33:US ~31:63/439,152 ~32:16/01/2023;33:US ~31:18/111,559 ~32:18/02/2023;33:US ~31:18/202,437 ~32:26/05/2023

2025/06602 ~ Complete ~54:MITIGATION OF POSITIONING MEASUREMENT IMPACT ON RLF PROCEDURE ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: LAURIDSEN, Mads;SUN, Jing Yuan;YUAN, Ping~

2025/06611 ~ Complete ~54:PLANT CULTIVATION METHOD AND CULTIVATION SYSTEM ~71:DAIFUKU CO., LTD., 3-2-11 Mitejima, Nishiyodogawa-ku, Osaka-shi, Osaka, 5550012, Japan ~72: HIROMU YAJIMA;KANJI ANNO;NAOKI WASHIO;NOBUYUKI KITA;RIKA MATSUMOTO~ 33:JP ~31:2023-016700 ~32:07/02/2023

2025/06599 ~ Complete ~54:NOVEL CARNOSINE SYNTHASE, AND METHOD FOR PRODUCING CARNOSINE BY USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: HWANG, Yeji;LEE, Heeseok;YOON, Byoung Hoon~ 33:KR ~31:10-2023-0005632 ~32:13/01/2023

2025/06607 ~ Complete ~54:DIRECT REDUCTION PLANT AND METHOD OF MANUFACTURING DIRECT REDUCED IRON ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Dianbing HUANG;Dmitri BOULANOV;Gabriel LUCENA MOGOLLON;Jean-Philippe GUERIN;Marcelo W. Muniz DE ANDRADE;Maude LEVESQUE;Sirisha PARVATHANENI~

2025/06592 ~ Complete ~54:CHINESE MEDICINE FOR IMPROVING THE TREATMENT OF TYPE II DIABETES AND PREPARATION METHOD THEREOF ~71:Shuzhong WANG, 5-6-3, No. 13-1, Huanghe North Street, Huanggu District, Shenyang, Liaoning, People's Republic of China ~72: Shuzhong WANG~ 33:CN ~31:202510528502X ~32:26/06/2025

2025/06597 ~ Complete ~54:GEARBOX FOR A PUMP ~71:SPACECADS LTD, 59 Sheering Road, Old Harlow, United Kingdom ~72: POSTOLACHI, Serghei~ 33:GB ~31:2304039.7 ~32:20/03/2023

2025/06613 ~ Complete ~54:TRISPECIFIC ANTIGEN-BINDING MOLECULE AND USE THEREOF ~71:SHANGHAI QILU PHARMACEUTICAL RESEARCH AND DEVELOPMENT CENTRE LTD., Building 1, No. 576 Libing Road, No. 56 Faraday Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, Shanghai,

201203, People's Republic of China ~72: HONGLIANG QIAN;JUAN LUO;LIUQING YANG~ 33:CN ~31:202310100368.4 ~32:07/02/2023

. - APPLIED ON 2025/08/07 -

2025/06637 ~ Complete ~54:METHOD FOR RECONSTRUCTING PALEOELEVATION IN OROGENIC BELT REGIONS BASED ON PALEONTOLOGICAL AND GEOCHEMICAL DATA ~71:Ocean University of China, No.238 Songling Road, Laoshan District, Qingdao City, Shandong Province, 266100, People's Republic of China ~72: Gong, Zhicheng;Huang, Ziao;Lin, Haona;Liu, Yifeng;Liu, Ze;Lu, Kaiyue;Shu, Pengcheng;Wang, Ruibo;You, Yixun;Zhang, He;Zhang, Jingwen~ 33:CN ~31:2025104363553 ~32:09/04/2025

2025/06619 ~ Provisional ~54:EARS - ELECTRONIC APPOINTMENT REMINDER SYSTEM ~71:Ziana Rafuza, Marhambeni Location, South Africa ~72: Ziana Rafuza~

2025/06634 ~ Provisional ~54:BUY-IN-APP ~71:Khonzinkosi Dlomo, 63 Buckley Road, South Africa;Thenjiwe Dlomo, 63 Buckley Road, South Africa ~72: Khonzinkosi Dlomo~

2025/06642 ~ Complete ~54:COMPOUNDS AND METHODS FOR REDUCING APP EXPRESSION ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: SETH, Punit, P.;ZHAO, Hien, Thuy~ 33:US ~31:63/485,807 ~32:17/02/2023

2025/06645 ~ Complete ~54:SELF-ADHERING ARTICLE ~71:BERRY GLOBAL, INC., 101 Oakley Street Evansville, United States of America ~72: CONNOLLY, Paul;CONTRADA, Svetlana;IMMEL, Kyle~ 33:US ~31:63/444,519 ~32:09/02/2023

2025/06646 ~ Complete ~54:METHOD AND APPARATUS FOR PREPARING FLAKES ~71:LANDA LABS (2012) LTD., P.O. Box 2418, Israel ~72: FEFFERMAN, Guy;LEVIN, Aleksey Elisha~ 33:GB ~31:2302788.1 ~32:27/02/2023;33:GB ~31:2316241.5 ~32:24/10/2023

2025/06648 ~ Complete ~54:METHOD OF IMPROVING THE APPEARANCE OF THE SKIN ~71:Natura & Co UK Holdings Limited, 5th Floor Halo, Counterslip, BRISTOL BS1 6AJ, UNITED KINGDOM, United Kingdom ~72: GLYNN, John R.;HAXAIRE, Coline;IDKOWIAK-BALDYS, Jolanta;LIEBEL, Frank T.;PORTOCARRERO-HUANG, Gloria~ 33:US ~31:63/482,920 ~32:02/02/2023

2025/06650 ~ Complete ~54:APPARATUS FOR CONVEYING AND PACKAGING FRUIT AND VEGETABLE PRODUCTS ~71:UNITEC S.P.A., Via Provinciale Cotignola, 20/9, 48022, Lugo, Italy ~72: LUCA BENEDETTI~ 33:IT ~31:102023000002076 ~32:08/02/2023

2025/06656 ~ Complete ~54:APPARATUSES, METHODS, AND SYSTEMS FOR VIBRATORY SCREENING ~71:DERRICK CORPORATION, 590 Duke Road, Buffalo, United States of America ~72: NEWMAN, Christian;STODOLKA, Kurt~ 33:US ~31:63/438,899 ~32:13/01/2023

2025/06621 ~ Provisional ~54:PREPSMART PRO™ – MULTIFUNCTIONAL MODULAR, AUTO-CLEANING, SMART KITCHEN PREPARATION APPLIANCE ~71:Yumnah Daniels, 4 School End Street, South Africa ~72: Yumnah Daniels~

2025/06622 ~ Provisional ~54:DILIGENCE, ACCOUNTABILITY, AND PUNCTUALITY SYSTEM FOR VERIFIED PRODUCT ENGAGEMENT AND REPUTATION TRACKING (WITH AI ENHANCEMENT AND ANONYMOUS MODE) ~71:Judah Ben-Hur Joyce, 4 Cilliers street, La Hoff, Klerksdorp, North West, 2571, South Africa ~72: Judah Ben-Hur Joyce~

2025/06626 ~ Provisional ~54:BUOY REPAIR ~71:COCHRANE USA INC., 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2025/06633 ~ Provisional ~54:INTERACTIVE GRID-BASED PUZZLE SYSTEM FEATURING EQUATION, SEQUENCE RECOGNITION, MULTI-DIGIT NUMBER FORMATION, AND FLEXIBLE TILE SELECTION MECHANICS ~71:Petrus Daniel Gerhardus Steyn, 24 Rorich Crescent, South Africa ~72: Petrus Daniel Gerhardus Steyn~

2025/06689 ~ Complete ~54:A METHOD FOR SEQUENTIAL CONVERSION OF FOOD WASTE USING THREE ENVIRONMENTAL INSECTS ~71:JINZHONG UNIVERSITY, No. 199, Wenhua Street, Yuci District, Jinzhong, People's Republic of China ~72: Biaoli, LI;Jianwei, HAO;Libin, ZHANG;Shimin, GAO;Shuang, LIU;Xuelin, GUO~

2025/06624 ~ Provisional ~54:COUPLING ~71:COCHRANE USA INC, 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2025/06631 ~ Provisional ~54:ATTACK INHIBITING BUOY ~71:COCHRANE USA INC., 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2025/06643 ~ Complete ~54:ALLELE-SELECTIVE COMPOUNDS AND METHODS FOR MODULATING HUNTINGTIN EXPRESSION ~71:IONIS PHARMACEUTICALS, INC., 2855 Gazelle Court, Carlsbad, United States of America ~72: OESTERGAARD, Michael;SETH, Punit, P.~ 33:US ~31:63/485,850 ~32:17/02/2023;33:US ~31:63/587,714 ~32:03/10/2023

2025/06647 ~ Complete ~54:JACKET FOR A COVER AND METHOD FOR APPLYING IT ~71:PELEMAN INDUSTRIES NV, Rijksweg 7, Belgium ~72: PELEMAN, Guido Frans M.~ 33:BE ~31:2023/5113 ~32:16/02/2023

2025/06649 ~ Complete ~54:METHOD AND DEVICE FOR DETECTING A MOVING BODY NEAR A STRUCTURE ~71:Sens of Life, 62 avenue de la Salamane, CLERMONT L'HÉRAULT 34800, FRANCE, France ~72: LAGRANGE, Hubert~ 33:FR ~31:FR2301837 ~32:28/02/2023

2025/06655 ~ Complete ~54:NETWORK SECURITY SYSTEM BASED ON CLOUD COMPUTING AND ARTIFICIAL INTELLIGENCE ~71:ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY, NO. 9, DONGHUA ROAD, FENGYANG COUNTY, CHUZHOU CITY, People's Republic of China ~72: CAO, Hao;CHEN, Xuemin;JIAO, Xuesong;LV, Yajie;ZHANG, Mengmeng;ZHAO, Weiwei~ 33:WO ~31:PCT/CN2025/105102 ~32:28/06/2025

2025/06639 ~ Complete ~54:SUPEROXIDE DISMUTASE 1 (SOD1) IRNA COMPOSITIONS AND METHODS OF USE THEREOF FOR TREATING OR PREVENTING SUPEROXIDE DISMUTASE 1- (SOD1-) ASSOCIATED NEURODEGENERATIVE DISEASES ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge, Massachusetts, 02142, United States of America ~72: ADAM CASTORENO;CHARALAMBOS KAITTANIS;JAMES D MCININCH;JASON GILBERT;MARK K SCHLEGEL;STUART MILSTEIN~ 33:US ~31:63/148,991 ~32:12/02/2021;33:US ~31:63/270,176 ~32:21/10/2021

2025/06641 ~ Complete ~54:GROUNDWATER STRATIFIED SAMPLING DEVICE FOR ENVIRONMENTAL PROTECTION ~71:ANHUI WATER CONSERVANCY TECHNICAL COLLEGE, NO. 18 HEMA ROAD, YAOHAI DISTRICT, HEFEI CITY, People's Republic of China ~72: GAO, Huihui;REN, Honglei;WANG, Lijuan;WEI, Ting~ 33:CN ~31:2025102685571 ~32:07/03/2025

2025/06654 ~ Complete ~54:METHOD FOR GENERATING HIGH PURITY AND FINELY DISPERSED NANOPARTICLES BY INDUCTIVE LOCAL HEATING ~71:THE CYPRUS INSTITUTE, P.O. Box 27456,, Cyprus ~72: BISKOS, George~

2025/06629 ~ Provisional ~54:WATERBORNE BARRIER ADAPTOR ~71:COCHRANE USA INC., 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2025/06630 ~ Provisional ~54:FLOATING BARRIER ~71:COCHRANE USA INC., 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2025/06632 ~ Provisional ~54:FLOATING BARRIER ~71:COCHRANE USA INC., 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2025/06638 ~ Complete ~54:KETOHEXOKINASE (KHK) IRNA COMPOSITIONS AND METHODS OF USE THEREOF ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge, Massachusetts, 02142, United States of America ~72: ADAM CASTORENO;FREDERIC TREMBLAY;JAMES D MCININCH;LEILA NOETZLI;MARK K SCHLEGEL~ 33:US ~31:63/154,005 ~32:26/02/2021;33:US ~31:63/223,581 ~32:20/07/2021;33:US ~31:63/280,668 ~32:18/11/2021

2025/06651 ~ Complete ~54:SOAP BAR COMPOSITIONS WITH IMPROVED SKIN BENEFITS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: AMITABHA MAJUMDAR;MOHINI ANAND BAPAT;MRUTHYUNJAYA SWAMY MATHAPATHI;NARESH DHIRAJLAL GHATLIA;PRAVIN BANKAR;SIMONE SETHNA;VIBHAV RAMRAO SANZGIRI~ 33:EP ~31:24150989.2 ~32:09/01/2024

2025/06636 ~ Complete ~54:COMPOSITION AND APPLICATION THEREOF IN PREPARATION OF OSTEOCLAST DIFFERENTIATION INHIBITOR ~71:Nanfang Hospital, Southern Medical University, No.1838 North Guangzhou Avenue, Baiyun District, Guangzhou City, Guangdong Province, 510515, People's Republic of China ~72: LIU Gang;REN Pinzhen;ZOU Binhua~

2025/06640 ~ Complete ~54:SAFETY MONITORING DEVICE FOR AUTOMOBILE ASSEMBLY PRODUCTION LINE ~71:TAIZHOU UNIVERSITY, NO. 93, JICHUAN EAST ROAD, HAILING DISTRICT, TAIZHOU CITY, People's Republic of China ~72: MIAO, Xinghua;SHEN, Chunlong;WANG, Xiaoyang;XING, Xiaoyang;YANG, Bin;YIN, Yue~

2025/06644 ~ Complete ~54:TARGETED DEGRADATION OF VAV1 ~71:MONTE ROSA THERAPEUTICS AG, Klybeckstrasse 191 Wkl-136.3, Switzerland ~72: BIZZINI, Lorenzo Delarue;CABRÉ, Xavier Lucas;FASCHING, Bernhard;LESIEUR, Mathieu;LIARDO, Elisa;MCALLISTER, Laura Ann;OLEINIKOVAS, Vladimiras;RITZEN, Andreas~ 33:US ~31:63/437,951 ~32:09/01/2023

2025/06653 ~ Complete ~54:BLADING SYSTEM FOR AXIAL COMPRESSORS WITH AXIALLY OPPOSING BASE MERGED DOUBLE TRIANGULAR PRISM DEVICE BLADES ~71:SPACEROLLS AEROSPACE TECHNOLOGIES PRIVATE LIMITED, Cabin-22, 1st Floor, No. 8/2, Novel Office Centre, Halasuru Road, Sivan Chetty Gardens, Bangalore, Bangalore North, Karnataka, 560042, Bangalore, India ~72: RASHEED C, Mohammed~ 33:IN ~31:202241043132 ~32:27/01/2023

2025/06627 ~ Provisional ~54:SECURITY BUOY ~71:COCHRANE USA INC., 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2025/06652 ~ Complete ~54:SQUID LURE FOR FISHING ~71:NOMAD TACKLE PTY LTD, 24 Robertson Street Brendale, Australia ~72: OLSEN, Damon~ 33:AU ~31:2022902937 ~32:07/10/2022

2025/06657 ~ Provisional ~54:AZACESS ~71:Vincent Mogudi, no 6 Juniper complex, South Africa ~72: Vincent Mogudi~

2025/06620 ~ Provisional ~54:NEOPRENE SLEEVE FOR BRAAI AND KITCHEN TONGS ~71:Coreta de Beer, 24 Van Bruggen Street, Secunda, 2302, South Africa ~72: Coreta de Beer~

2025/06623 ~ Provisional ~54:ANTI-DIVE STRUCTURE FOR A WATERBORNE BARRIER ~71:COCHRANE USA INC, 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2025/06628 ~ Provisional ~54:AN ANCHOR ARRANGEMENT FOR A BUOY ~71:COCHRANE USA INC., 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2025/06635 ~ Complete ~54:FLOOD RISK ASSESSMENT METHOD AND SYSTEM FOR SMALL RESERVOIRS ~71:China Institute of Water Resources and Hydropower Research, 20, Chegongzhuang West Road, Haidian District, Beijing, 100038, People's Republic of China;Tianjin University, 92,Weijin Road, Nankai District, Tianjin, 300072, People's Republic of China ~72: BI Wuxia;WANG Gang;WU Nan;YANG Ning;ZHANG Cheng;ZHANG Hongbin;ZHANG Jintang;ZHAO Liping~

2025/06625 ~ Provisional ~54:BUOY ADAPTOR ARRANGEMENT ~71:COCHRANE USA INC, 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

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2025/06658 ~ Provisional ~54:INTEGRATED HOT AND COLD THERAPY UNIT ~71:ARCTIC APE ICE BATHS (PTY) LTD, Unit 7, 25 Ingwe Road, South Africa ~72: NERWICH, Craig;ORBACH, Dan~

2025/06659 ~ Provisional ~54:SOLAR ROOF ASSEMBLY ~71:STRUCTURE CENTER (PTY) LTD, 33 Eland Street, Koedoespoort, South Africa ~72: SCHENNACH, Udo;SPOELSTRA, Hendrik;WAGNER, Manfred Andreas~

2025/06665 ~ Complete ~54:MIST INHALER DEVICES ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~ 33:US ~31:17/122,025 ~32:15/12/2020;33:US ~31:17/220,189 ~32:01/04/2021

2025/06667 ~ Complete ~54:COMPOSITION OF BIFIDOBACTERIUM ANIMALIS AND SEMEN RAPHANI FOR SYNERGISTIC PREVENTION AND TREATMENT OF FUNCTIONAL CONSTIPATION ~71:China Agricultural University, No. 2 Yuanmingyuan West Road, HaiDian District, Beijing, 100193, People's Republic of China ~72: GE Shaoyang;LI Xiaoxia;LI Yixuan;SANG Yue;WANG Pengjie;WANG Ran;ZHAO Liang~ 33:CN ~31:202411081342.0 ~32:08/08/2024

2025/06666 ~ Complete ~54:ADAPTER COUPLING ~71:VICTAULIC COMPANY, 4901 Kesslersville Road, United States of America ~72: BOWMAN, Matthew A.;CUVO, Anthony J.~ 33:US ~31:62/271,395 ~32:28/12/2015

2025/06673 ~ Complete ~54:NECROSIS INHIBITOR ~71:LinkGevity Limited, 3rd Floor, 114a Cromwell Road, LONDON SW7 4AG, UNITED KINGDOM, United Kingdom ~72: KERN, Carina~ 33:GB ~31:2300310.6 ~32:09/01/2023

2025/06669 ~ Complete ~54:POLYMORPH AS PROTEIN KINASE MEK INHIBITOR, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:SHANGHAI KECHOW PHARMA, INC., Room 3M, No.780 Cailun Road, Zhangjiang Hi -Tech Park Pudong New Area, People's Republic of China ~72: HUANG,

Gongchao;TIAN, Hongqi~ 33:CN ~31:202310099716.0 ~32:10/02/2023;33:CN ~31:202410090964.3 ~32:22/01/2024

2025/06671 ~ Complete ~54:SURFACE-ACTIVE AGENT ~71:ECONIC TECHNOLOGIES LTD, Block 19 S, Alderley Park Nether Alderly, Macclesfield Cheshire, SK 10 4 TG, United Kingdom ~72: BLACKBURN, Anthea;KEMBER, Michael~ 33:GB ~31:2301055.6 ~32:25/01/2023

2025/06661 ~ Provisional ~54:A THRUST LEG ~71:HYDRO POWER EQUIPMENT (PTY) LTD, 19 Precision Street, Kya Sand, Randburg, South Africa ~72: BÜHRMANN, Rudolph;CRONJÉ, Johan Marthinus;THERON, Christo~

2025/06668 ~ Complete ~54:CONVEYOR ROLLER SUPPORT STRUCTURE AND INSTALLATION FOR CONVEYOR SYSTEMS ~71:GLENROWAN ENTERPRISES PTY LTD, 200 Patrick Place, Mundaring, Australia ~72: RYAN, Shawn~ 33:AU ~31:2023900457 ~32:22/02/2023;33:AU ~31:2023901904 ~32:16/06/2023

2025/06660 ~ Provisional ~54:GUMRENEW PRO™ – INTEGRATED SYSTEM FOR NON-INVASIVE GUM TISSUE REGENERATION ~71:Yumnah Daniels, 4 School End Street, South Africa ~72: Yumnah Daniels~

2025/06663 ~ Complete ~54:LOW-SALT BRAISED GOOSE FORMULA AND BRAISING METHOD THEREOF ~71:Key Laboratory of Sichuan Cuisine Artificial Intelligence, Sichuan Tourism College, No. 459, Hongling Road, Longquanyi District, Chengdu City, Sichuan Province, People's Republic of China;Sichuan Tourism University, No. 459, Hongling Road, Longquanyi District, Chengdu City, Sichuan Province, People's Republic of China ~72: CHEN Xuanlin;DENG Xing;DUAN Rong;HUA Ling;JIANG Xueqin;QIN Tianyu~ 33:CN ~31:202411136641X ~32:19/08/2024

2025/06675 ~ Complete ~54:COMPOSITIONS TARGETING PROSTATE-SPECIFIC MEMBRANE ANTIGEN (PSMA) AND METHODS FOR MAKING AND USING THE SAME ~71:Amunix Pharmaceuticals, Inc., 2 Tower Pl #1100, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: DUBROVSKAYA, Viktoriya;JOHANSEN, Eric;LIU, Lucas;MACCANN, Darragh;SCHELLENBERGER, Volker;TO, Milton~ 33:US ~31:63/444,839 ~32:10/02/2023;33:US ~31:63/499,031 ~32:28/04/2023

2025/06676 ~ Provisional ~54:SLEEP LEAKPROOF PANTIES ~71:NTHABELENG CAROL MORENA, 31 FRED PETERS, NORKEM PARK, South Africa ~72: NTHABELENG CAROL MORENA~

2025/06662 ~ Provisional ~54:STACKED MULTI-MODALITY FACIAL AND NECK TREATMENT DEVICE WITH SIMULTANEOUS ACTIVATION AND LYMPHATIC DRAINAGE ~71:Yumnah Daniels, 4 School End Street, South Africa ~72: Yumnah Daniels~

2025/06664 ~ Complete ~54:SAFETY HOOK FOR BUILDING CONSTRUCTION ~71:Wenzhou Polytechnic, University Town, Chashan and Jiangjiaqiao 81, Wenzhou, Zhejiang, People's Republic of China ~72: Wu Qingling~

2025/06674 ~ Complete ~54:G PROTEIN-COUPLED RECEPTOR KINASE 2 (GRK2) DEGRADATION COMPOUNDS AND USE THEREOF ~71:Nanjing Huanbo Biotechnology Co., Ltd., No. 266 Puyun Road, NANJING 210000, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: CAI, Xin;XU, Zuling~ 33:IB ~31:2023/075491 ~32:10/02/2023

2025/06670 ~ Complete ~54:USE OF A COMPOSITION OF TRICHODERMA AND LIGNIN FRACTION AS A BOOSTER OF NITROGEN FERTILIZERS ~71:GREEN INNOVATION GMBH, Grabenweg 68, 6020, Innsbruck, Austria;UPM-KYMMENE CORPORATION, Alvar Aallon katu 1, 00100, Helsinki, Finland ~72: HÜBSCH,

Christian;LEONARDI, Giuliano;MACCHIA, Vito;PIETARINEN, Suvi~ 33:IT ~31:102023000002589 ~32:15/02/2023

2025/06672 ~ Complete ~54:MIXING DEVICE FOR BEVERAGE PREPARATION ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: DUBEI, Mia;ELLIOTT, Gareth;RAMQAJ, Sylvie;REGNIER, Timothée~ 33:EP ~31:23151719.4 ~32:16/01/2023

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2025/06721 ~ Provisional ~54:BICAR ~71:LETSEKO ROBERT SELEKA, 10032 MOONG VILLAGE GA-SELEKA, South Africa ~72: LETSEKO ROBERT SELEKA~

2025/06678 ~ Provisional ~54:MENTAL HEALTH SCHOOL WEBSITE ~71:Katlego Kwatala, 3 Newton Bend, South Africa ~72: Katlego Kwatala~

2025/06682 ~ Provisional ~54:AN ANTI-JAMMING METHOD AND DEVICE ~71:HARDCORE AUTOMOTIVE LOCKING TECHNOLOGIES (PTY) LTD, c/o Gerhard Lourens Inc, Jolin House, Cnr of Marloth & van der Merwe Street, MBOMBELA 1200, SOUTH AFRICA, South Africa ~72: TALJAARD, Philippus Petrus Erasmus~

2025/06686 ~ Provisional ~54:ECONOMIC PARTICIPATION INDEX (EPI) — SYSTEMS AND METHODS FOR MEASURING, VERIFYING, AND ADVANCING ECONOMIC PARTICIPATION AS A CORPORATE AND PUBLIC SECTOR ACCOUNTABILITY METRIC ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/06692 ~ Complete ~54:INTELLIGENT WARNING SYSTEM FOR DEEP-VEIN CATHETER-RELATED BLOODSTREAM INFECTION ~71:THE FIRST AFFILIATED HOSPITAL OF SOOCHOW UNIVERSITY, No.899, Pinghai Road, Gusu District, Suzhou, Jiangsu, 215000, People's Republic of China ~72: BI, Guorong;JI, Fuhai;LIU, Huayue;MA, Zhengmin;MENG, Xiaowen;PENG, Ke;SHAN, Xisheng;WANG, Gang;XIAO, Chengjiao;YANG, Xiu;YANG, Yufan;ZHAO, Dan~

2025/06701 ~ Complete ~54:METHOD FOR MECHANICALLY AND CONTINUOUSLY PROCESSING HOT POT TRIPE THROUGH ENZYMOLYSIS ~71:SOUTHWEST UNIVERSITY, College of Food Science, Southwest University, Tiansheng Road No216, Beibei, People's Republic of China ~72: HE, Zhifei;LI, Hongjun~

2025/06709 ~ Complete ~54:A PROCESS FOR TRANSITION METAL OXIDE REDUCTION ~71:HELIOS PROJECT LTD., 22 Aharon Katsnelson Street, Israel ~72: ELIAD, Linoam;GEIFMAN, Jonathan;GOFER, Yossi;HAUSNER, Jonathan~ 33:US ~31:63/480,019 ~32:16/01/2023

2025/06712 ~ Complete ~54:METHODS OF INSECT CONTROL FOR AN ANIMAL, PRODUCTS THEREOF AND METHODS FOR THEIR PREPARATION ~71:CHINOOK CONTRACT RESEARCH INC., 381 Montcalm Avenue, Victoria, Canada ~72: ALLAN, Nicholas;OLSON, Merle;ROSS, Joseph~ 33:US ~31:63/486,396 ~32:22/02/2023

2025/06680 ~ Provisional ~54:PALESPEC™ – AI-POWERED AUTOMOTIVE COLOR MATCHING AND APPLICATION STANDARDIZATION DEVICE WITH CONTAMINATION DETECTION, ENVIRONMENTAL COMPENSATION, AND SHOP INTEGRATION ~71:Igshaan Daniels, 4 School End Street, South Africa ~72: Igshaan Daniels~

2025/06683 ~ Provisional ~54:SCREEN PANEL ~71:SCREENDEX (PTY) LTD., 5 Berry Road, Roodekop, Germiston 1434, South Africa ~72: ANDRIES GERHARDUS EASTES;GRAHAM FREDERICK CROOKS~

2025/06679 ~ Provisional ~54:SYSTEM AND METHOD FOR ADAPTIVE USER-DRIVEN OPTIMISATION OF MOBILE INFORMATION AND DATA TRANSACTION PARAMETERS ~71:Matimba Shiviti, 1135 Francis Baard St, South Africa ~72: Matimba Shiviti~

2025/06691 ~ Complete ~54:PLANT IMMUNE REGULATION-RELATED CUA GENE AND ORTHOLOGOUS GENE THEREOF, AND USE THEREOF IN MOLECULAR BREEDING FOR DISEASE RESISTANCE ~71:Henan Academy of Sciences, No. 228, Chongshili, Zhengdong New District, Zhengzhou City, Henan Province, 450046, People's Republic of China;Henan Napu Biotechnology Co., LTD, No. 58, Hongzhuan Road, Jinshui District, Zhengzhou City, Henan Province, 450002, People's Republic of China ~72: CHEN, Fei;CHEN, Shizhan;GOU, Mingyue;JIA, Xiaolin;JING, Teng;WANG, Wei;ZHOU, Yong~ 33:CN ~31:202411550506.X ~32:01/11/2024

2025/06696 ~ Complete ~54:METHOD OF TREATING HAIR LOSS DISORDERS ~71:SUN PHARMACEUTICAL INDUSTRIES, INC., 2 Independence Way, United States of America ~72: BRUMMEL, Christopher L.;CASSELLA, James V.;HOLDEN, Meghan A.~ 33:US ~31:63/543,470 ~32:10/10/2023;33:US ~31:63/543,885 ~32:12/10/2023;33:US ~31:63/625,125 ~32:25/01/2024;33:US ~31:63/673,600 ~32:19/07/2024;33:US ~31:63/675,577 ~32:25/07/2024;33:US ~31:63/697,634 ~32:23/09/2024

2025/06700 ~ Complete ~54:METHOD FOR PREPARING HYBRIDOMA CELL LINE PRODUCING MONOCLONAL ANTIBODY AGAINST SEROTYPE A FOOT-AND-MOUTH DISEASE ANTIGEN ~71:VETERINARY RESEARCH INSTITUTE OF XINJIANG ACADEMY OF ANIMAL SCIENCES (ANIMAL CLINICAL MEDICINE RESEARCH CENTER OF XINJIANG ACADEMY OF ANIMAL SCIENCES), No. 726 Dongrong Street, Urumqi High tech Industrial Development Zone (Xinshi District), People's Republic of China ~72: DING, Jian;GUO, Houjun;HURCHA;LU, Guili;MAYA, Zhen;MI, Xiaoyun;MIAO, Shukui;SHI, Yi;SU, Guicheng;SU, Zhanqiang;WANG, Qi;WEI, Jie;WEI, Yurong;WU, Jianyong~

2025/06708 ~ Complete ~54:FILTER SYSTEM HAVING KEY-FIT ATTACHMENT BETWEEN HOLDER AND FILTER CONNECTOR ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: FINN, Timothy S.~ 33:US ~31:18/167,920 ~32:13/02/2023

2025/06718 ~ Complete ~54:ADJUVANT SYSTEMS FOR IMPROVED DELIVERY OF ACTIVE INGREDIENTS USING PULSED SPRAY CROP APPLICATIONS ~71:WINFIELD SOLUTIONS, LLC, 4001 Lexington Avenue North, Arden Hills, Minnesota 55126, United States of America ~72: STEVEN FREDERICKS~ 33:US ~31:63/446,682 ~32:17/02/2023

2025/06695 ~ Complete ~54:DRUG DELIVERY DEVICE FOR ANORECTAL TREATMENT ~71:Fuzhou Hospital Of Traditional Chinese Medicine (Affiliated Hospital of Jiangxi College of Traditional Chinese Medicine), No. 1111, Gandong Avenue, Linchuan, Fuzhou City, Jiangxi Province, People's Republic of China ~72: Jingyi Zhou;Lijuan Zhu~ 33:CN ~31:2024111108333 ~32:14/08/2024

2025/06698 ~ Complete ~54:A BACKPACK-TYPE RAPESEED SEEDING DEVICE ~71:INSTITUTE OF INDUSTRIAL CROPS, HENAN ACADEMY OF AGRICULTURAL SCIENCES, No. 116, Huayuan Road, Jinshui District, Zhengzhou City, Henan Province, 450002, People's Republic of China ~72: Cai Dongfang;Cao Jinhua;He Junping;Liu Yizi;Wang Dongguo;Zhang Shufa;Zhang Shufen;Zhao Lei;Zhu Jiacheng~ 33:CN ~31:202411455510.8 ~32:18/10/2024

2025/06705 ~ Complete ~54:METHODS OF TREATING DEPRESSIVE DISORDERS WITH A PSILOCYBIN ANALOG ~71:CYBIN IRL LIMITED, One Spencer Dock, North Wall Quay, Ireland ~72: AVERY, Kenneth L.;INAMDAR, Amir;KRAKOWSKY, Joan M.;KREMPIEN, Sebastian;MORGAN, Michael E.;NATHAN, Pradeep J.;NIVOROZHKIN, Alex;PALFREYMAN, Michael;PATHARE, Pradip M.;SHUKOOR, Mohammed I.~ 33:US ~31:63/487,078 ~32:27/02/2023;33:US ~31:63/512,466 ~32:07/07/2023;33:US ~31:63/519,992 ~32:16/08/2023;33:US ~31:63/602,888 ~32:27/11/2023;33:US ~31:63/603,262 ~32:28/11/2023;33:US ~31:63/603,886 ~32:29/11/2023

2025/06706 ~ Complete ~54:USE AND PREPARATION METHOD OF MOLYBDENUM-DOPED COBALT TETROXIDE ~71:HAINAN NORMAL UNIVERSITY, No. 99 Longkun South Road, Haikou, People's Republic of

China ~72: Anfei LI;Chunyan DAI;Linhua ZHU;Tiyan YU;Xi LIU;Yuting FU;Ziqi ZHANG~ 33:CN ~31:2025108394669 ~32:23/06/2025

2025/06687 ~ Provisional ~54:MACROSTRUCTURAL ECONOMIC ARCHITECTURE SYSTEM AND METHOD FOR TRUST-BASED VALUE CREATION, INSTITUTIONAL LEGITIMACY, AND BROAD-BASED PARTICIPATION ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/06690 ~ Complete ~54:INFLATABLE MATTRESS STRUCTURE WITH DETACHABLE AIR COLUMN ~71:FORMOSA SAINT JOSE CORP., 1st Fl., No. 319, Jia Shing Street, Taipei 106, Taiwan, Province of China ~72: Yang Ming-Shun~ 33:TW ~31:113145184 ~32:22/11/2024

2025/06693 ~ Complete ~54:DESIGN METHOD AND PREPARATION PROCESS FOR CERVICAL INTERVERTEBRAL FUSION CAGE BASED ON 3D PRINTING TECHNOLOGY ~71:HONGHUI HOSPITAL, No. 555, Youyi East Road, Nanshaomen, Xi'an City, Shaanxi Province, 710054, People's Republic of China ~72: LI Jialiang~

2025/06697 ~ Complete ~54:STABLE POLLINATION DEVICE FOR PEPPER BREEDING ~71:Dezhou Academy of Agricultural Sciences, No.1245 Daxue West Road, Decheng District, Dezhou City, Shandong Province, 253028, People's Republic of China ~72: CHANG Peipei;DUAN Qingqing;HAN Meimei;LI Tengfei;WANG Jingjing;WANG Youping;ZHANG Luqi;ZHANG Shaoli;ZHANG Zikun~

2025/06707 ~ Complete ~54:MULTI-DEGREE-OF-FREEDOM INTERLOCKING DEVICE FOR INJECTION MOLDING STRIPPING AND UNLOADING OF CLASSIFIED PLASTIC DUSTBIN ~71:HUNAN LIXIN PLASTIC INFLATABLE PRODUCTS CO., LTD, Tangfu Road, Industrial Park, Wugang City, Shaoyang City, Hunan Province, 422000, People's Republic of China ~72: PAN, XIANJUN;ZHAO, XUEBING~ 33:CN ~31:2022115870308 ~32:11/12/2022

2025/06714 ~ Complete ~54:A COMPOSITION FOR REDUCING URINE MALODOUR ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: SAMIRAN MAHAPATRA;SANDEEP VARMA;SRILAXMI VENKATA MEDEPALLI;YUGANDHAR BOMMAIHPALLE SUDHAKAR REDDY~ 33:EP ~31:23162789.4 ~32:20/03/2023

2025/06703 ~ Complete ~54:APPARATUS FOR AUTOMATED DOCUMENTATION AND COMPLIANCE MANAGEMENT IN REAL ESTATE TRANSACTIONS ~71:1XL Infra & Real Estate Development L.L.C, 9, 1XL Avenue, DIP, Dubai. PO Box Number - 74242, United Arab Emirates ~72: Dhiraj Kantilal Jain;Mamata Dhiraj Jain~

2025/06694 ~ Complete ~54:A CATALYST CALCINATION DEVICE ~71:Jiangsu Vocational Institute of Architectural Technology, No. 26, Xueyuan Road, Quanshan District, Xuzhou City, Jiangsu province, People's Republic of China ~72: GUO Dongqin;NIE Lufeng;YANG Ning;ZHAO Meixia~

2025/06702 ~ Complete ~54:APPARATUS FOR AUTOMATED CONCRETE QUALITY ASSESSMENT IN ON-SITE CONSTRUCTION ~71:1XL Infra & Real Estate Development L.L.C, 9, 1XL Avenue, DIP, Dubai. PO Box Number – 74242, United Arab Emirates ~72: Parag Dhadiwal;Shubham Dhadiwal~

2025/06711 ~ Complete ~54:CONTROLLED RELEASE SEMI-SOLID EMULSION FORMULATIONS OF SEMIOCHEMICALS ~71:ATGC Biotech Private Limited, Plot No. 1, Sy. No. 87 Part, Maalaxmi Residency, Behind Chandra Reddy Gardens, Kompally, Hyderabad, HYDERABAD 500014, TELANGANA, INDIA, India;Pheromones Biotech LLP, Plot No. 1, Maalaxmi Residency, Kompally, Hyderabad, HYDERABAD 500014, TELANGANA, INDIA, India ~72: GORANTLA, Dr. Markandeya;MAGANTI, Radha Srikrishna;MUKUL, Mukesh Kumar;PATIL, Vishal;REDDY KAUKUTTLA, Akshitha~ 33:IN ~31:202341002655 ~32:12/01/2023

2025/06715 ~ Complete ~54:CLOSURE ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GREGORY LALIER~ 33:US ~31:63/454,389 ~32:24/03/2023;33:EP ~31:23172437.8 ~32:09/05/2023

2025/06684 ~ Provisional ~54:SPORTSXR: WEARABLE DEVICE AND METHOD ~71:NOORBHAI, Mohammed Habib, W506 The Factory, Howe Road, Observatory, South Africa ~72: NOORBHAI, Mohammed Habib~

2025/06710 ~ Complete ~54:IMIDAZOTRIAZINE IL-17A MODULATORS AND USES THEREOF ~71:DiCE Alpha, Inc., c/o Eli Lilly and Company, Lilly Corporate Office, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BELABED, Hassane;BRANDT, Gary Edward Lee;FATHEREE, Paul R.;FREIDBERG, Michael D.;REILLY, Maureen K.~ 33:US ~31:63/484,684 ~32:13/02/2023;33:US ~31:63/511,519 ~32:30/06/2023;33:US ~31:63/516,399 ~32:28/07/2023;33:US ~31:63/602,304 ~32:22/11/2023

2025/06716 ~ Complete ~54:A COMPOSITION FOR CLEANING SURFACES AND CONTROLLING INSECTS ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DEBORAH WILLIAMS;EMMA JANE SAUNDERS;PHILIP CAUNT;SAMIRAN MAHAPATRA;SANDEEP VARMA;SOMNATH GHOSH;SRILAXMI VENKATA MEDEPALLI~ 33:EP ~31:23162760.5 ~32:20/03/2023

2025/06722 ~ Provisional ~54:HEAT-ACTIVATED BIOMETRIC CARD ~71:Saenal, 1090 Toy Avenue, South Africa ~72: Saenal~

2025/06720 ~ Provisional ~54:SYSTEM AND METHOD FOR SIM-BASED MULTI-CHAIN BLOCKCHAIN TRANSACTIONS WITH OFFLINE CAPABILITY ~71:FRANCOIS PIERRE JOUBERT, 521,20th AVE, RIETFONTEIN, South Africa;MARCO SMIT, 521,20th AVE,RIETFONTEIN, South Africa ~72: FRANCOIS PIERRE JOUBERT;MARCO SMIT~

2025/06681 ~ Provisional ~54:COMPOUNDS, COMPOSITIONS AND METHODS FOR TREATING MIGRAINES ~71:SHEVEL, Elliot, 45 Empire Road, Parktown, South Africa ~72: SHEVEL, Elliot~

2025/06685 ~ Provisional ~54:BIOMETRIC AND FACIAL RECOGNITION IDENTITY REGISTRATION SYSTEM WITH MULTI-DATABASE INTEGRATION FOR UNDOCUMENTED PERSONS ~71:Sebe Kgati, Pretea Drive, South Africa ~72: Sebe Kgati~

2025/06699 ~ Complete ~54:SUPPORTING DEVICE SUITABLE FOR LINING OF ARCH CROWN OF SPECIAL-SHAPED TUNNEL ~71:Kunming University of Science and Technology, No. 68, Wenchang Road, 121 Street, Kunming City, Yunnan Province, 650031, People's Republic of China ~72: HE Jinxing;REN Changchun;SHEN Chunying;WANG Mingming;XU Cundong;XU Qiang;YE Ming;ZHANG Guohui;ZHANG Hongbo~

2025/06713 ~ Complete ~54:PYRIDAZINONE PARP INHIBITOR, AND PREPARATION METHOD THEREFOR, AND PHARMACEUTICAL COMPOSITION AND USE THEREOF ~71:CHINA PHARMACEUTICAL UNIVERSITY, No. 24 Tong Jiaxiang, Gulou District Nanjing, Jiangsu, 210009, People's Republic of China ~72: CHENGHAO WANG;HONGFENG GU;JIEPING YANG;QIHUA ZHU;WENXIN YAN;XIAOLIN ZHAO;YI ZOU;YUNGEN XU~ 33:CN ~31:202310057843.4 ~32:17/01/2023

2025/06717 ~ Complete ~54:A SOLID DISINFECTION COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANINDITA HALDER;SAMIRAN MAHAPATRA;SHANTHI APPAVOO;VISHAL KUMAR TRIVEDI~ 33:EP ~31:23170777.9 ~32:28/04/2023

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2025/06726 ~ Provisional ~54:ENERGY STORAGE MODULE WITH EMBEDDED AI FOR LOAD CLASSIFICATION, CARBON CREDIT VERIFICATION, AND MINI-GRID INTEGRATION IN MODULAR

BATTERY SWAP SYSTEMS ~71:agriiLabs Pty Ltd, Ground Floor, Mac Building, Maxwell Office Park,, South Africa ~72: Terry Igharoro~

2025/06733 ~ Complete ~54:PRACTICAL LIFESAVING DEVICE FOR OCEAN-GOING VESSEL ~71:Dalian Maritime University, No. 1 Linghai Road, Ganjingzi District, Dalian City, Liaoning Province, 116026, People's Republic of China ~72: Bai Jun;Yu Jiajia~

2025/06735 ~ Complete ~54:A HOOKAH DEVICE ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~ 33:US ~31:17/122,025 ~32:15/12/2020;33:US ~31:17/220,189 ~32:01/04/2021;33:GB ~31:2104872.3 ~32:06/04/2021

2025/06739 ~ Complete ~54:SYSTEM, FACILITY AND METHOD FOR CONDITIONING SUGAR-CONTAINING JUICES OR LIQUIDS FOR THE ALCOHOLIC FERMENTATION THEREOF ~71:SONNAY, Gilbert, Route d'Yvonand 2, LUCENS 1522, SWITZERLAND, Switzerland ~72: SONNAY, Gilbert~ 33:EP ~31:23151850.7 ~32:16/01/2023

2025/06729 ~ Complete ~54:DIGESTIVE FLUID FORMULA FOR VISCOUS SPUTUM SPECIMEN IN CLINICAL MICROBIOLOGY LABORATORY, PREPARATION METHOD AND USE THEREOF ~71:Dongguan Binhaiwan Central Hospital, No. 111, Humen Avenue, Humen Town, Dongguan City, Guangdong Province, 523900, People's Republic of China ~72: Di Zou;Huimin Li;Shayan Chen;Wendie Yu;Yong Zhou;Zhihuang Wu~ 33:CN ~31:2024117728715 ~32:04/12/2024

2025/06736 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS OF GREEN PROPELLANT ~71:CIPLA LIMITED, Cipla House, Peninsula Business Park, Ganpatrao Kadam Marg, Lower Parel, Mumbai, India ~72: BHADAURIA, Pradeep;ROTE, Kiran~ 33:IN ~31:202321004627 ~32:24/01/2023

2025/06741 ~ Complete ~54:LANIFIBRANOR FORMULATION ~71:INVENTIVA, 50 rue de Dijon, 21121, Daix, France ~72: FRÉDÉRIC BELL;FRÉDÉRIQUE FLORES-IVANEZ;XAVIER SALANÇON~ 33:EP ~31:23305066.5 ~32:19/01/2023

2025/06732 ~ Complete ~54:SYNTHESIS PROCESS OF NACALA0.9998WO6: 0.0002 MN4+ PHOSPHOR FOR PLANT CULTIVATION ~71:BANSOD, Amit R., DEPARTMENT OF PHYSICS, DR. AMBEDKAR COLLEGE DEEKSHABHOOMI, NAGPUR, MAHARASHTRA, 440010, India;DHOBLE, Sanjay J., DEPARTMENT OF PHYSICS, R. T. M. NAGPUR UNIVERSITY, NAGPUR, MAHARASHTRA, 440033, India;HELODE, Sanket J., DEPARTMENT OF PHYSICS, R. T. M. NAGPUR UNIVERSITY, NAGPUR, MAHARASHTRA, 440033, India;KAMDI, Vedang H., DEPARTMENT OF PHYSICS, R. T. M. NAGPUR UNIVERSITY, NAGPUR, MAHARASHTRA, 440033, India;MANAPURE, Rasika C., DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION, SURYODAYA COLLEGE OF ENGINEERING AND TECHNOLOGY, NAGPUR, MAHARASHTRA, 440027, India ~72: BANSOD, Amit R.;DHOBLE, Sanjay J.;HELODE, Sanket J.;KAMDI, Vedang H.;MANAPURE, Rasika C.~

2025/06738 ~ Complete ~54:ANTIBODIES THAT BIND OX40L AND METHODS OF USE ~71:Apogee Therapeutics, Inc., 221 Crescent Street, Building 17, Suite 102B, WALTHAM 02453, MA, USA, United States of America ~72: ALAM, Mohammad Murshid;KANG, Byong H.;OH, Jason Z.;SHAHEEN, Hussam Hisham;ZHU, Eric Franklin~ 33:US ~31:63/462,871 ~32:28/04/2023;33:US ~31:63/529,631 ~32:28/07/2023;33:US ~31:63/561,037 ~32:04/03/2024

2025/06730 ~ Complete ~54:LARGE LOAD LIMITER ~71:No. 719 Research Institute of China State Shipbuilding Corporation Limited, No. 19, Yangqiaohu Avenue, Canglong Island Development Zone, Jiangxia District, Wuhan

City, Hubei Province 430205, People's Republic of China ~72: DAI Chengming;DAI Ruijie;DU Saipeng;GUO Hanbei;LIU Haijian;QIANG Lei;SHANG Chao;TAN Haitao;WANG Minghe;WANG Qiangyong;YANG Xuesong;ZHANG Miao;ZHANG Zhenli~

2025/06740 ~ Complete ~54:CUP LID ~71:ALTURKISTNI, Muath, Mohammed Alharkan Street, Saudi Arabia;KINKAR, Adeeb, 7461 Khalid Al Bazar Street, Saudi Arabia ~72: ALTURKISTNI, Muath;KINKAR, Adeeb~ 33:SA ~31:123441054 ~32:12/01/2023

2025/06725 ~ Provisional ~54:SYSTEM AND METHOD FOR ADAPTIVE GOOD AGRICULTURAL PRACTICES (GAP) GENERATION, LOCALISED FORKING, AND INDIGENOUS KNOWLEDGE INTEGRATION IN DECENTRALISED AGRICULTURAL NETWORKS ~71:agriiLabs Pty Ltd, Ground Flor, Mac Building, South Africa ~72: Terry Igharoro~

2025/06728 ~ Complete ~54:CEMENT EARLY STRENGTH AGENT WITH HIGH STRENGTH, CONTROLLED RELEASE, AND EARLY STRENGTH EFFECTS BASED ON NESQUEHONITE AND ACTIVATED MAGNESIUM OXIDE ~71:University of Science and Technology Beijing, No.30 Xueyuan Road, Haidian District, Beijing, 100083, People's Republic of China ~72: CHEN Deping;HUANG Feifei;LI Zihan;WEI Ping;YANG Jinxi;YU Zehua;ZHAO Qingkai~

2025/06734 ~ Complete ~54:A NICOTINE DELIVERY DEVICE ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~ 33:US ~31:17/122,025 ~32:15/12/2020;33:US ~31:17/220,189 ~32:01/04/2021

2025/06723 ~ Provisional ~54:DIAGNOSTIC SANITARY PAD ~71:GIANT HEART (PTY) LTD, 30 Spoonbill, Bromhof, South Africa ~72: MALEPA, Jack~

2025/06737 ~ Complete ~54:INDUCED NK CELLS RESPONSIVE TO CD3/TAA BISPECIFIC ANTIBODIES ~71:Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, TARRYTOWN 10591-6706, NY, USA, United States of America ~72: BLOCH, Nicolin;HERMANN, Aynur;OLSON, William;ULLMAN, Erica;YANCOPOULOS, George D.~ 33:US ~31:63/446,428 ~32:17/02/2023;33:US ~31:63/458,765 ~32:12/04/2023

2025/06731 ~ Complete ~54:METHOD FOR RAPIDLY CAPTURING DEEP MINERALIZATION INFORMATION OF HYDROTHERMAL ORE DEPOSIT ~71:Kunming University of Science and Technology, No. 68 Wenchang Road, 121 Street, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Han Runsheng;Hu Ticai;Huang Baosheng;Liu Hongwei;Wang Lei;Wei Pingtang;Zhang Yan~

2025/06742 ~ Provisional ~54:SMART MSI CHIP ~71:Sanele, SOWETO PROTEA GLEN, South Africa ~72: Sanele~

2025/06724 ~ Provisional ~54:A SYSTEM FOR PREPARATION OF A STENT GRAFT AND METHOD OF STENT GRAFT MANUFACTURING ~71:GODDARD, ASHLIE LISA, 17 Mirwani Road, Sunninghill, South Africa ~72: GODDARD, ASHLIE LISA~

2025/06727 ~ Complete ~54:HIGH-EFFICIENCY COAL CRUSHER SUITABLE FOR SMALL COAL MINES ~71:SHANXI INSTITUTE OF ENERGY, No. 63,Daxue Street, Yuci District, Jinzhong City, Shanxi Province, People's Republic of China ~72: GAO Yonghong;GUO Hantao;LI Yan;SUN Lifang;WEN Guifeng;ZHANG Chen;ZHANG Liying;ZHANG Yun;ZHOU Jianguo~

. - APPLIED ON 2025/08/13 -

2025/06744 ~ Provisional ~54:SMART SLEEP BOOKMARK ~71:BAKKER, Jan Willem, 166 South Road, De Deur, South Africa;DUVENAGE, Theunis Johannes, 11 The Loop, Lynnwood, Pretoria, South Africa ~72: BAKKER, Jan Willem~

2025/06758 ~ Complete ~54:A NOVEL UNIVERSAL VALVE COVER STRUCTURE ~71:SHANGAI JISHENG INDUSTRIAL CO., LTD., Room 202, No. 1, Lane 102, Shangzhou Road, Shangta Town, Qingpu District, People's Republic of China ~72: REN, Zhe~ 33:CN ~31:2025212926457 ~32:24/06/2025

2025/06764 ~ Complete ~54:PROCESS FOR DEPOLYMERIZING POLYALKYLENE TEREPHTHALATES IN MIXTURES WITH LOWER-MELTING POLYOLEFINS ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: BLUM, Adrian;REINSBERG, Philip, Heinrich;RUWWE, Johannes;ZANDER, Christian~ 33:EP ~31:23152835.7 ~32:23/01/2023

2025/06777 ~ Complete ~54:SOAP STRIP, DISPENSER AND REFILL ~71:ESSITY HYGIENE AND HEALTH AKTIEBOLAG, 405 03, Sweden ~72: HODOSSY, Sofia;JOHANSSON, Martina;MÖLLER, Per~

2025/06746 ~ Provisional ~54:SHOE INSOLE ~71:MSND Holding, c/o Sanlam Trustees International Limited, Labourdonnais Village, Mauritius ~72: FARAH, Paul Anthony~

2025/06747 ~ Provisional ~54:VISIONSAFE SMART SUNGLASSES WITH REAR-FACING CAMERA AND AR DISPLAY. ~71:Teddy Mteteleli Menzi, 33 Camphor Cresc , Sandown, South Africa ~72: Teddy Mteteleli Menzi~

2025/06760 ~ Complete ~54:IL-12 FC FUSION PROTEINS ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: COMEAU, Stephen R.;KIM, Phillip;KOWALCZYK, Aleksandra Katarzyna;KUDRA, Randal Scott;LANGLEY, Emma;LI, Chen;MUELLER, Philipp;URICK, Andrew K.~ 33:EP ~31:23152699.7 ~32:20/01/2023

2025/06772 ~ Complete ~54:DEVICES, SYSTEMS, AND METHODS FOR ADMINISTERING HYDROGEN GAS ~71:H2 WATER TECHNOLOGIES LTD., David Smalley Law Office, 2300-1066 W Hastings St., Vancouver, British Columbia, V6E 3X2, Canada ~72: ALEXANDER TARNAVA;TYLER LEBARON~ 33:US ~31:63/480,610 ~32:19/01/2023

2025/06774 ~ Complete ~54:NITRIC OXIDE-GENERATING COMPOSITIONS, KITS AND COMBINATIONS FOR USE IN THE TREATMENT, AMELIORATION OR PREVENTION OF RESPIRATORY DISEASES OR DISORDERS ~71:Thirty Respiratory Limited, 1 Red Place, LONDON W1K 6PL , UNITED KINGDOM, United Kingdom ~72: BOOTE, Nicholas David;LIPMAN, Keith;MUNRO, Hugh Semple~ 33:GB ~31:2302117.3 ~32:14/02/2023

2025/06745 ~ Provisional ~54:FLAVORS ~71:Hermanus Stephanus Pretorius, 17 Honeyguide Crescent, South Africa ~72: Hermanus Stephanus Pretorius~

2025/06756 ~ Complete ~54:AN APPARATUS FOR TRANSMITTING ULTRASONIC WAVES ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~

2025/06761 ~ Complete ~54:SOLID SORBENT FOR REMOVAL OF CARBON DIOXIDE FROM A CO2-CONTAINING GAS ~71:SUSTAERA INC., 2 DAVIS DRIVE DURHAM, NORTH CAROLINA 27709, USA, United States of America ~72: GUPTA, Raghubir, Prasad;LANIGAN-ATKINS, Tyson, Lee;SANDERSON, Cory, Elliott;SHEN, Jian, Ping~ 33:US ~31:63/480,191 ~32:17/01/2023

2025/06765 ~ Complete ~54:PROCESS FOR DEPOLYMERIZATION OF POLYALKYLENE TEREPHTHALATES IN AN EXTRUDER ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: REINSBERG, Philip, Heinrich;RICHTER, Thomas;ROETTGER, Dirk;RUWWE, Johannes;ZANDER, Christian~ 33:EP ~31:23152836.5 ~32:23/01/2023

2025/06766 ~ Complete ~54:ANTISENSE OLIGOMER FORMULATIONS ~71:STOKE THERAPEUTICS, INC., 45 Wiggins Avenue, United States of America ~72: HATALA, Paul;LAMICHHANE, Surya;YUN, Tong~ 33:US ~31:63/484,890 ~32:14/02/2023;33:US ~31:63/625,171 ~32:25/01/2024

2025/06771 ~ Complete ~54:BISPECIFIC BINDING AGENTS FOR USE IN COMPANION ANIMALS ~71:INVETX INC., 201 Washington Street, Suite 3930, Boston, Massachusetts, 02108, United States of America ~72: LEILA SEVIGNY;WILLIAM BRONDYK~ 33:US ~31:63/480,791 ~32:20/01/2023

2025/06778 ~ Complete ~54:SOAP STRIP DISPENSER ~71:ESSITY HYGIENE AND HEALTH AKTIEBOLAG, 405 03, Sweden ~72: HODOSSY, Sofia;JOHANSSON, Martina~

2025/06750 ~ Provisional ~54:THE INSULATING POT SLEEVE ~71:Martin Hempel, 138 Villiers Road, South Africa ~72: Martin Hempel~

2025/06757 ~ Complete ~54:RESISTANCE BAND ANCHOR FOR POWER RACK ~71:Maxim Andreevich Chernyaev, Yasnaogorskaya ulitsa, d. 17, korp. 2, kv. 312, Moscow, 117463, Russian Federation ~72: Maxim Andreevich Chernyaev~ 33:RU ~31:2025108907 ~32:10/04/2025

2025/06751 ~ Provisional ~54:THE AFRICAN TRIBAL SOLAR-POWERED TELECOM TOWERS (SHIELDS) ~71:JJ Govender, 49 Allen Road, South Africa ~72: JJ Govender~

2025/06755 ~ Complete ~54:PROLIFERATION CULTURE METHOD OF EUCALYPTUS PELLITA TISSUE CULTURE SEEDLINGS BY INTERMITTENT IMMERSION IN LIQUID ~71:EXPERIMENTAL CENTER OF TROPICAL FORESTRY CHINESE ACADEMY OF FORESTRY, 201 Keyuan Road, Pingxiang City, Chongzuo City, Guangxi Zhuang Autonomous Region, 532600, People's Republic of China ~72: Guangjin Liu;Hao Fu;Hongguo Li;Honghui Chen;Hongyan Jia;Jihuang Xu;Pei Zhang;Qingxiang Lao;Qiyao Zeng;Runmei Duan~

2025/06762 ~ Complete ~54:METHOD OF AUTOMATED PROCESSING OF HIGH-TEMPERATURE-STABLE, CLOSED-PORE, RIGID HARD FOAMS ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: HOLLEYN, Denis;LANG, Uwe;PESCHKE, Marcus;ROTH, Matthias, Alexander~ 33:EP ~31:23152644.3 ~32:20/01/2023

2025/06770 ~ Complete ~54:METHODS AND COMPOSITIONS FOR ADMINISTERING OTOFERLIN DUAL VECTOR SYSTEMS ~71:DECIBEL THERAPEUTICS, INC., 1325 Boylston Street Suite 500, Boston, Massachusetts, 02215, United States of America ~72: ADAM PALERMO;JOHN LEE;JONATHAN B SELLON;JONATHON WHITTON;NING PAN;ORION PAUL JR KEIFER;QI-YING HU;SETH KOEHLER~ 33:US ~31:63/485,656 ~32:17/02/2023;33:US ~31:63/545,804 ~32:26/10/2023;33:US ~31:63/618,348 ~32:07/01/2024;33:US ~31:63/549,204 ~32:02/02/2024

2025/06775 ~ Complete ~54:NITRIC OXIDE-GENERATING COMPOSITIONS, KITS AND COMBINATIONS FOR USE IN THE TREATMENT, AMELIORATION OR PREVENTION OF INFECTIOUS OR INFLAMMATORY DISEASES OR DISORDERS ~71:Thirty Therapeutics Limited, 1 Red Place, LONDON W1K 6PL, UNITED KINGDOM, United Kingdom ~72: BOOTE, Nicholas David;LIPMAN, Keith;MUNRO, Hugh Semple~ 33:GB ~31:2302118.1 ~32:14/02/2023

2025/06743 ~ Provisional ~54:IDEAL SYRUP ~71:Lerato Tshabalala, 11 Boundary Road, extention 4, Meyerton, Gauteng, 1960, South Africa ~72: Lerato Tshabalala~

2025/06749 ~ Provisional ~54:PERISHABLE PRODUCT SPOILAGE INDICATOR ~71:SCHOLTZ, Johannes Jacobus Lodewicus, 239 Tulip Rd, Mnandi AH, South Africa ~72: SCHOLTZ, Johannes Jacobus Lodewicus~

2025/06754 ~ Complete ~54:SPRAY SYSTEM AND METHOD OF TUNNEL MAINTENANCE TROLLEY ~71:CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING BUREAU GROUP 3RD ENGINEERING CO., LTD., Block B, 6th Floor, Tianjin Railway Construction Building, No. 32 Zhonghuan West Road, Tianjin Free Trade Zone, Tianjin, 300000, People's Republic of China;CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING BUREAU GROUP CO., LTD., No. 32, Zhonghuan West Road, Tianjin Free Trade Zone, Tianjin, 300000, People's Republic of China;LIAONING TECHNICAL UNIVERSITY, No. 47, Zhonghua Road, Fuxin, Liaoning Province, 123000, People's Republic of China ~72: Baoxin Jia;Bengang Wang;Bin Yang;Chenghui Li;Daiming Xie;Haimin Zhong;Heming Zhao;Hongyi Wang;Hua Xiao;Jiashun Liu;Quan Liang;Zhiyang Zhou~

2025/06759 ~ Complete ~54:DEVICE FOR RELEASING FRY ON BEACH FOR FISHERY-TOURISM USE ~71:JIANGSU HAILINGHU ECOLOGICAL TECHNOLOGY DEVELOPMENT CO., LTD, The west side of Nanchen Hengshan Road, Donghai County, People's Republic of China;JIANGSU OCEAN UNIVERSITY, No. 59, Cangwu Road, Haizhou District, People's Republic of China ~72: DONG, Zhiguo;DOU, Qiang;GE, Hongxing;NI, Qian;PANG, Sujing;SUN, Yanming~

2025/06767 ~ Complete ~54:QUANTUM KEY DISTRIBUTION SYSTEM, TRANSMITTER, RECEIVER AND METHOD ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: CZERMANN, Márton;KOVÁCS, Benedek;SZABÓ, Áron Dénes;TRÓCSÁNYI, Peter~

2025/06769 ~ Complete ~54:A BIO-PRESERVATION STICKER, METHODS OF PRODUCING THE SAME AND USES THEREOF ~71:LIVA BIO PROTECTION TECHNOLOGIES LTD, 6/3 Frug Street, 7630250 Rehovot, Israel ~72: IFAT HAMMER~ 33:US ~31:63/439,361 ~32:17/01/2023

2025/06776 ~ Complete ~54:SOAP DISPENSER WITH SHIELD ~71:ESSITY HYGIENE AND HEALTH AKTIEBOLAG, 405 03, Sweden ~72: HODOSSY, Sofia;JOHANSSON, Martina;KARLHAGER LISS, Linnéa~

2025/06780 ~ Complete ~54:SOAP STRIP PACKAGE ~71:ESSITY HYGIENE AND HEALTH AKTIEBOLAG, 405 03, Sweden ~72: BURKHALTER, Kevin;GRANATH, Jenny;HODOSSY, Sofia;VANUZZO, Matteo~ 33:EP ~31:PCT/EP2023/054226 ~32:20/02/2023

2025/06748 ~ Provisional ~54:ENTOMOPATHOGENIC FUNGI FOR BIOLOGICAL CONTROL OF INSECT PESTS ~71:AGRICULTURAL RESEARCH COUNCIL, 1134 Park Street Hatfield, Pretoria, 0083, South Africa ~72: A JACOBS-VENTER;GRACE THIAMBI KWINDA;ISABELLA HENDRIEKA RONG;ROBERT NOFEMELA;ROGER PRICE;SAMUEL MOSIANE MORAKE~

2025/06752 ~ Complete ~54:OIL PHASE MATERIALS AND THEIR PREPARATION METHODS, INCLUDING THE INVENTIONS IN EXPLOSIVE PREPARATION ~71:BGRIMM Explosives & Blasting (Cangzhou) Technology Co., Ltd., No.9, Shanghai Avenue, Cangzhou Lingang Economic & Technological Development Zone, Cangzhou City, Hebei Province, 061108, People's Republic of China;BGRIMM Explosives & Blasting Technology Co., Ltd., Building 23, Zone 18 of ABP, No. 188, South 4th Ring Road West, Fengtai District, Beijing, 100070, People's Republic of China;Inner Mongolia Baotou Steel Jitai Chemical Co., Ltd, East Main Mine, Baiyun'ebo Mining District, Baotou City, Inner Mongolia, 014080, People's Republic of China ~72: Chai Xueping;Cui Gang;Fan Haolin;Hao Huijuan;Liu Feng;Ma Ping;Song Lei;Tan Benling;Tang Liting;Wang Jianjun;Wang Ming;Wang Zhaozhong;Ye Hui;Zhang Wei;Zhang Xin;Zhao Wei~ 33:CN ~31:2025104576865 ~32:11/04/2025

2025/06753 ~ Complete ~54:OIL PHASE MATERIAL FOR ANFO EXPLOSIVE, ITS PREPARATION METHOD, AND ANFO EXPLOSIVE CONTAINING THE SAME ~71:BGRIMM Explosives & Blasting (Cangzhou) Technology Co., Ltd., No.9, Shanghai Avenue, Cangzhou Lingang Economic & Technological Development Zone, Cangzhou, Hebei Province, 061108, People's Republic of China;BGRIMM Explosives & Blasting Technology Co., Ltd., Building 23, Zone 18 of ABP, No. 188, South 4th Ring Road West, Fengtai District, Beijing, 100070, People's Republic of China;Inner Mongolia Baotou Steel Jitai Chemical Co., Ltd, East Main Mine, Baiyun'ebo Mining District, Baotou City, Inner Mongolia, 014080, People's Republic of China ~72: Chai Xueping;Cui Gang;Fan Haolin;Hao Huijuan;Liu Feng;Ma Ping;Song Lei;Tan Benling;Tang Liting;Wang Jianjun;Wang Ming;Wang Zhaozhong;Ye Hui;Zhang Wei;Zhang Xin;Zhao Wei~ 33:CN ~31:2025104576812 ~32:11/04/2025

2025/06768 ~ Complete ~54:ENHANCED DIAZOTROPHIC MICROORGANISMS FOR USE IN AGRICULTURE ~71:BIOCONSORTIA, INC., 279 Cousteau Place, Suite 100, United States of America ~72: ALFORD, Betsy;CURTIS, Damian;MALIN, John;REIMCHE, Courtney;WILLIAMS, Thomas;ZHU, Hong~ 33:US ~31:63/489,771 ~32:12/03/2023

2025/06763 ~ Complete ~54:PROCESS FOR DEPOLYMERIZATION OF POLYALKYLENE TEREPHTHALATES IN AN EXTRUDER ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: RICHTER, Thomas;ZANDER, Christian~ 33:EP ~31:23152837.3 ~32:23/01/2023

2025/06773 ~ Complete ~54:MC2R MODULATOR COMPOUNDS ~71:OMass Therapeutics Limited, Building 4000, John Smith Drive, Oxford Business Park South, OXFORD OX4 2GX, UNITED KINGDOM, United Kingdom ~72: BROWN, Giles Albert;MALET SANZ, Laia;MUSGAARD, Maria;ROFFEY, Jonathan Richard Anthony;SANDERSON, Adam Jan;TEHAN, Benjamin Gerald~ 33:GB ~31:2302630.5 ~32:23/02/2023;33:GB ~31:2308196.1 ~32:01/06/2023;33:GB ~31:2313601.3 ~32:06/09/2023;33:GB ~31:2319945.8 ~32:22/12/2023

2025/06779 ~ Complete ~54:DISPENSER FOR SOAP ~71:ESSITY HYGIENE AND HEALTH AKTIEBOLAG, 405 03, Sweden ~72: HODOSSY, Sofia;JOHANSSON, Martina;OLSSON, Joel~

2025/06781 ~ Complete ~54:METHOD, SYSTEM, AND DEVICE TO MONITOR VEHICLES ~71:V-DAQ PTY LTD, BLD 239, Innovation Campus, Squires Way, Australia ~72: FENECH, Paul Mitchell;KOLB, Rylan Jeffrey~ 33:AU ~31:2023201233 ~32:28/02/2023

. - APPLIED ON 2025/08/14 -

2025/06786 ~ Complete ~54:PROTECTIVE SERVER FOR SMART CLASSROOMS ~71:NINGXIA NORMAL UNIVERSITY, XUEYUAN ROAD, NEW DISTRICT, YUANZHOU DISTRICT, GUYUAN CITY, People's Republic of China ~72: CHEN, Peng;GU, Yusha~

2025/06795 ~ Complete ~54:COMPOSITIONS AND METHODS FOR ENHANCING THE EFFICACY OF DICARBOXYLIC ACID ESTERS, AND USES THEREOF ~71:New Frontier Labs, LLC, 7738 Apple Green Road, SAN ANTONIO 78240, TX, USA, United States of America ~72: IZBICKA, Elzbieta;STREEPER, Robert T.~ 33:US ~31:18/806,476 ~32:15/08/2024

2025/06791 ~ Complete ~54:DEMODULATION METHOD OF LINK4A DATA LINK SIGNALS BASED ON STFT ~71:Jiaxing Vocational & Technical College, No. 547, Tongxiang Avenue, Nanhu District, Jiaxing City, Zhejiang Province, 314036, People's Republic of China ~72: Chunfang Gao~

2025/06794 ~ Complete ~54:PROCESS CONTROL SYSTEMS AND METHODS FOR USE WITH FILTERS AND FILTRATION PROCESSES ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: FRANK, Gregory;GEFROH, Eva;HEWIG III, Arthur C.;PETTY,

Krista;SALSTROM TERPSMA, Christine;SCHULTZ, Joseph Edward;SCHWEICKART, Randolph W.~ 33:US ~31:61/992,595 ~32:13/05/2014

2025/06806 ~ Complete ~54:SOLVENT EXTRACTION METHOD AND SYSTEM ~71:Innovation Metals Corp., 106-210 Waterfront Drive, Bedford, B4A 0H3, NOVA SCOTIA, CANADA, Canada ~72: DAVIS, Boyd;FORRESTER, Kurt;HATCH, Gareth;HURDITCH, Jaan;LEUNG, Jonathan;SCHRIDER, Michael;TEUMA-CASTELLETTI, Robert;WONG, Patrick~ 33:US ~31:63/448,060 ~32:24/02/2023

2025/06808 ~ Complete ~54:MODIFIED BCG VACCINE ~71:UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG, 1 Jan Smuts Avenue, Johannesburg, 2050, South Africa ~72: BAVESH DAVANDRA KANA;TUBE MOAGI SHAKU~ 33:GB ~31:2301522.5 ~32:02/02/2023

2025/06803 ~ Complete ~54:COMPOUNDS, THEIR COMPOSITION AND THEIR USE AS NEMATICIDES ~71:BHUKHANWALA, Komal, 13, Ratna, North South Road 4, Next to Flower Clinic, JVPD Scheme, Vile Parle West, Mumbai, 400056, India;LINGAM, Venkata Siva Prasada Rao, 101/A, Enkay Square CHS Ltd, Plot No-21, Sector–6, Koparkhairane, Navi Mumbai, 400709, India ~72: BHUKHANWALA, Komal;LINGAM, Venkata Siva Prasada Rao~ 33:IN ~31:202321011330 ~32:17/02/2023

2025/06807 ~ Complete ~54:DRONE PROPULSION SYSTEM ~71:HO-SHING, Colin, 4443 Furman Avenue, BRONX 10466, NY, USA, United States of America ~72: HO-SHING, Colin~ 33:US ~31:18/113,436 ~32:23/02/2023

2025/06782 ~ Provisional ~54:AI-DRIVEN INTEGRATED HEALTH INFORMATION SYSTEM PLATFORM FOR UNIFIED AND PORTABLE PATIENT HEALTH RECORDS WITH AI-AUGMENTED CARE COORDINATION TOOLS ~71:Chinazo Onwu, 513 Aldbury Close Cedar Creek Estate, Fourways ,, South Africa;Ekenedilichukwu Onwu, 513 Aldbury Close, Cedar Creek Estate,Fourways ,, South Africa ~72: Chinazo Onwu;Ekenedilichukwu Onwu~

2025/06790 ~ Complete ~54:COMPUTER VISION BASED LIBRARY AI INTELLIGENT AUTOMATIC QUERY TERMINAL ~71:XINYU UNIVERSITY, NO. 2666 YANGGUANG AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: HE, Wei;HU, Hongxia;LI, Minyi;YANG, Wanqin;ZHANG, Yi;ZHOU, Yi~

2025/06810 ~ Complete ~54:GANTRY CRANE MOUNTING METHOD ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9, Chunxiu Road, Dongcheng District, Beijing 100027, People's Republic of China ~72: XIAOQIANG ZHANG~ 33:CN ~31:202411022551.8 ~32:29/07/2024

2025/06788 ~ Complete ~54:ROTOR-STATOR ASSEMBLY FOR A ROTARY ENGINE, COMPRESSOR OR PUMP AND A ROTARY ENGINE AND A LIFTING UNIT AND DEVICE ~71:Eirini STASSINOPOULOU, Patriarxiou Grigoriou 35A, Greece;Eleni STASSINOPOULOU, Nafsikas 8, Greece ~72: George STASSINOPOULOU~ 33:EP ~31:24223625.5 ~32:30/12/2024

2025/06793 ~ Complete ~54:METHOD FOR LEACHING SEPARATION OF MIXED RARE EARTH CONCENTRATE ~71:NORTHEASTERN UNIVERSITY, No. 3-11 Wenhua Road Heping District Shenyang, People's Republic of China ~72: HAN, Yuexin;LI, Wenbo;LI, Yanjun;QU, Rui;ZHANG, Xiaolong~ 33:CN ~31:202411210144.X ~32:30/08/2024

2025/06796 ~ Complete ~54:COSMETIC COMPOSITION, NOTABLY FOR HAIR ~71:L'Oreal, 14, rue Royale, PARIS 75008, FRANCE, France ~72: KHOOSAL, Sabrina;MOKONE, William~

2025/06798 ~ Complete ~54:A MICROCHIP FOR DRIVING A RESONANT CIRCUIT ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah

Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~

2025/06805 ~ Complete ~54:MULTI-LAYER SOFTWARE-DEFINED SYSTEM AND METHOD FOR HIGH PERFORMANCE ENERGY CONVERSION ~71:The Trustees of Columbia University in the City of New York, 412 Low Memorial Library, 535 West 116th Street, NEW YORK 10027, NY, USA, United States of America ~72: PREINDL, Matthias;ZHOU, Liwei~ 33:US ~31:63/443,178 ~32:03/02/2023

2025/06809 ~ Complete ~54:T-BEAM HOISTING DEVICE AND METHOD ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9, Chunxiu Road, Dongcheng District, Beijing 100027, People's Republic of China ~72: QINGYUN XU~ 33:CN ~31:202410720261.4 ~32:05/06/2024

2025/06785 ~ Complete ~54:SIGNAL PEPTIDE FOR PROMOTING OMP25 EXPRESSION, FUSION PROTEIN CONTAINING SIGNAL PEPTIDE, AND APPLICATION THEREOF ~71:Inner Mongolia Minzu University, No. 536 West Huolinhe Street, Tongliao City, Inner Mongolia Autonomous Region, 028000, People's Republic of China ~72: GAO, Shuonan;WANG, Hui;WANG, Xingya;WU, Yangtao;XIAO, Renfang;YANG, Yuanchao;ZHAI, Jingbo;ZHANG, Shuai~ 33:CN ~31:202510858516.8 ~32:24/06/2025

2025/06789 ~ Complete ~54:MODULAR RIDING VEHICLE ~71:DOONA HOLDINGS LTD., FLAT/RM 04 2/F, Hong Kong ~72: DLUGASH, Brian;MAZAR, Yoav~ 33:IL ~31:315024 ~32:15/08/2024

2025/06811 ~ Complete ~54:BIODEGRADABLE TEST KIT ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard, Bainbridge, Georgia, 39817, United States of America ~72: CAROL G LEGGETT;CHERYL G WARE;PHILLIP VAN TRUMP~ 33:US ~31:63/483,027 ~32:03/02/2023

2025/06813 ~ Provisional ~54:RAKUTU SWIFT BRICK (RSB) ~71:NKOSI AUTHUR MAHLANGU, 113 YELLOWTAIL STREET VAAL MARINA, South Africa ~72: NKOSI AUTHUR MAHLANGU~

2025/06784 ~ Complete ~54:METHOD AND SYSTEM FOR TRACKING THE REHABILITATION PROGRESS OF ORTHOPEDIC PATIENTS ~71:Tongxiang First People's Hospital, No. 1918, East Xiaochang Road, Wutong Street, Tongxiang City, Zhejiang Province, People's Republic of China ~72: Jue Hu;Lingyan Qu;Liufang Xu;Xiaojia Lu~

2025/06799 ~ Complete ~54:DENIAL-OF-SERVICE (DOS) ATTACK PREVENTION IN A SECURITY PROTOCOL ~71:ENTERSEKT INTERNATIONAL LIMITED, Level 3, Alexander House, 35 Cybercity, Mauritius ~72: ØVERBY, Eirik~ 33:ZA ~31:2024/06253 ~32:15/08/2024

2025/06802 ~ Complete ~54:NEMATICIDAL COMPOUNDS, THEIR COMPOSITION AND USE THEREOF ~71:BHUKHANWALA, Komal, 13, Ratna, North South Road 4, Next to Flower Clinic, JVPD Scheme, Vile Parle West, Mumbai, 400056, India;LINGAM, Venkata Siva Prasada Rao, 101/A, Enkay Square CHS Ltd, Plot No-21, Sector–6, Koparkhairane, Navi Mumbai, 400709, India ~72: BHUKHANWALA, Komal;LINGAM, Venkata Siva Prasada Rao~ 33:IN ~31:202321011330 ~32:17/02/2023

2025/06787 ~ Complete ~54:PERSONALIZED E-COMMERCE RECOMMENDATION SERVICE METHOD BASED ON GENETIC FUZZY CLUSTERING ~71:Guangzhou Maritime University, No. 101, Hongshan 3rd Road, Huangpu District, Guangzhou, People's Republic of China ~72: Ling XIANG;Mengchi LI;Zhihui ZHU;Zichen MA~ 33:CN ~31:202411190700.1 ~32:28/08/2024

2025/06801 ~ Complete ~54:HIGH-STRENGTH METAL GRID FOR CONTAINMENT AND PROTECTION AND MACHINE FOR THE PRODUCTION THEREOF ~71:OFFICINE MACCAFERRI S.P.A., Via Albricci Alberico, 9, Italy ~72: Antoine GAGLIARDI~ 33:IT ~31:102023000004578 ~32:10/03/2023

2025/06783 ~ Complete ~54:FORKLIFT ~71:Linyi Vocational University of Science and Technology, No.1 Macau Road, Hedong District, Linyi City, Shandong Province, 276025, People's Republic of China ~72: ZHANG, Wentao~

2025/06797 ~ Complete ~54:A SYSTEM AND METHOD FOR DETECTING AND CLASSIFYING LYMPHOMA FROM HISTOPATHOLOGICAL IMAGES ~71:Bindu Garg, Bharati Vidyapeeth (Deemed to be university) college of Engineering. Pune, 411043, India;Kirtida Naik, Bharati Vidyapeeth (Deemed to be university) college of Engineering. Pune, 411043, India ~72: Bindu Garg;Kirtida Naik~

2025/06792 ~ Complete ~54:MULTI FUNCTIONAL ENDOTRACHEAL INTUBATION CATHETER ~71:Dianjiang County People's Hospital, Chongqing, No. 113, Beiwai Street, Guixi Town, Dianjiang County, Chongqing City, 408300, People's Republic of China ~72: HUANG Jianbin;WEI Chuan~

2025/06800 ~ Complete ~54:PROTEIN TYROSINE PHOSPHATASE WEDGE DOMAIN PEPTIDE DIMER FOR NERVOUS SYSTEM REPAIR ~71:NERVGEN PHARMA CORP., 112-970 Burrard Street, Unit 1290, Vancouver, Canada ~72: LUKASHEV, Matvey~ 33:US ~31:63/493,912 ~32:03/04/2023

2025/06804 ~ Complete ~54:SYSTEMS TARGETING PSMA AND CA9 ~71:ARSENAL BIOSCIENCES, INC., 329 Oyster Point Blvd, South San Francisco, United States of America ~72: BOROUGHS, Angela;CASBON, Amy-Jo;DREVER, Matthew;GARDNER, Thomas;GRAY-RUPP, Levi;NGUYEN, Duy;WILLIAMS, Samuel A.;YAO, Anzhi;ZHOU, Zhen Jian~ 33:US ~31:63/488,386 ~32:03/03/2023;33:US ~31:63/489,837 ~32:13/03/2023;33:US ~31:63/495,869 ~32:13/04/2023;33:US ~31:63/578,854 ~32:25/08/2023;33:US ~31:63/601,617 ~32:21/11/2023;33:US ~31:63/613,712 ~32:21/12/2023;33:US ~31:63/618,233 ~32:05/01/2024

2025/06812 ~ Complete ~54:PROCESS FOR THE PRODUCTION OF PRECIPITATED SINGLE PHASE CRYSTALLINE 1-D NANOSCALED CALCITE ~71:UNIVERSITY OF SOUTH AFRICA, 1 PRELLER STREET MUCKLENEUK RIDGE, South Africa ~72: MAAZA, Malek;MOHAMED, Hamza Elsayed Ahmed~ 33:ZA ~31:2023/01095 ~32:26/01/2023

. - APPLIED ON 2025/08/15 -

2025/06845 ~ Complete ~54:IMPROVED POZZOLAN AND METHODS OF MAKING AND USING SAME ~71:Progressive Planet Solutions Inc., 724 Sarcee Street East, KAMLOOPS V2H 1E7, BRITISH COLUMBIA, CANADA, Canada ~72: CARRELL, Michael;GRANT , Ian;HARPUR, Stephen;MAH, Roger~ 33:US ~31:63/439,748 ~32:18/01/2023

2025/06814 ~ Provisional ~54:COMPUTER IMPLEMENTED MEDICAL INFORMATION SYSTEM ~71:BOTHA, Debbie, 303c Killarney Avenue, Bronberrick, South Africa ~72: BOTHA, Debbie~

2025/06828 ~ Complete ~54:INSERT-TYPE LOCKING CONNECTION FOR MODULAR STEEL BUILDINGS ~71:Central South University, No. 22 Shaoshan South Road, Tianxin District, Changsha City, Hunan Province, 410075, People's Republic of China;Hunan Construction Engineering Group Co., Ltd., No. 158 Furong North Road, Kaifu District, Changsha City, Hunan Province, 410008, People's Republic of China;Hunan Construction Investment Group Co., Ltd., No. 788 Furong South Road, Tianxin District, Changsha City, Hunan Province, 410004, People's Republic of China;Qingdao University of Technology, No. 777 Jialingjiang East Road, Huangdao District, Qingdao City, Shandong Province, 266520, People's Republic of China;Shijiazhuang Tiedao University, No. 17 Northeast Second Inner Ring, Shijiazhuang City, Hebei Province, 050043, People's Republic of China ~72: AN Qi;LIU Shangwen;LIU Xiaoyu;PENG Liangyi;QIAO Wentao;SHENG Debin;WANG Xiaoxiang;YU Yujie;ZHONG Xu~ 33:CN ~31:2025216834149 ~32:07/08/2025

2025/06830 ~ Complete ~54:CRYSTALLINE FORM OF DEURUXOLITINIB ~71:SUN PHARMACEUTICAL INDUSTRIES, INC., 2 Independence Way, United States of America ~72: WIEDEMANN, Sean~ 33:US ~31:63/636,516 ~32:19/04/2024;33:US ~31:18/661,225 ~32:10/05/2024

2025/06835 ~ Complete ~54:DRILLING SYSTEM FOR MAKING A BOREHOLE UNDERGROUND IN A DEPOSIT ~71:HERRENKNECHT AG, Schlehenweg 2, 77963, Schwanau, Germany ~72: ALEXANDER FREY;HENRY NIEBLING;TILMANN SCHWAB~ 33:DE ~31:10 2024 123 443.1 ~32:16/08/2024

2025/06844 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS AND SOLID FORMS OF COMPOUND 1 WITH FUMARATE FOR THE TREATMENT OF INFLAMMATORY DISORDERS ~71:Galapagos NV, Generaal De Wittelaan L11/A3, MECHELEN 2800, BELGIUM, Belgium ~72: KAYAERT, Pieterjan Geert Christiane Bart;PRAT-LACONDEMINE, Laurence Josette Yvette;SCHRANCK, Johannes~ 33:EP ~31:23315009.3 ~32:18/01/2023

2025/06816 ~ Provisional ~54:LIQUID/PETROL/DIESEL DISPENSE SYSTEM ~71:Brandt De klerk, resmus erasmus 1085-1, South Africa ~72: Brandt De klerk~ 33:ZA ~31:NONE ~32:14/08/2025

2025/06819 ~ Complete ~54:BLACK PHOSPHORUS QUANTUM DOT/NIFE-LDH VISIBLE LIGHT CATALYST, PREPARATION METHOD AND APPLICATION ~71:Kunming University of Science and Technology, No.68 Wenchang Road, 121 Street, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Guangzhu CAO;Ronggao QIN;Yanfeng LU;Yi QIANG;Yilin LIU;Yuhui DU~

2025/06822 ~ Complete ~54:METHOD FOR IDENTIFYING AND PREDICTING GROUNDWATER CONTAMINANT DIFFUSION IN INDUSTRIAL PARKS ~71:Kunming University of Science and Technology, No.727 Jingming South Road, Chenggong District, Kunming, Yunnan Province, 650031, People's Republic of China ~72: Baozhu LI;Guangzhu CAO;Ronggao QIN;Ruoyu MAO;Yanfeng LU;Yi QIANG~

2025/06833 ~ Complete ~54:ANTI-CTLA4 ANTIBODIES AND METHODS OF MAKING AND USING THE SAME ~71:ADAGENE INC., Harbour Place, 103 South Church Street, P.O. Box 2582, Grand Cayman, KY1-1103, Cayman Islands ~72: FANGYONG DU;GUIZHONG LIU;PETER PEIZHI LUO;ZHONGZONG PAN~ 33:CN ~31:PCT/CN2018/075064 ~32:02/02/2018

2025/06842 ~ Complete ~54:PEPTIDE INHIBITORS OF INTERLEUKIN-23 RECEPTOR ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium;Protagonist Therapeutics, Inc., 7707 Gateway Boulevard, Suite 140, NEWARK 94560, CA, USA, United States of America ~72: BARROS, Stephanie A.;BHANDARI, Ashok;BOURNE, Gregory Thomas;BRANCA, Danila;COSTANTE, Roberto;FREDERICK, Brian Troy;GUO, Boying;HENDRICK, Charles;MARCOUX, David;NEELAMKAVIL, Santhosh Francis;SOMANI, Sandeep;SUN, Chengzao;THIEU, Tho;ZHANG, Jing~ 33:US ~31:63/480,038 ~32:16/01/2023

2025/06852 ~ Complete ~54:BLADE BODY SUPPORT APPARATUS, TRANSPORTATION ASSEMBLY, TRANSPORTATION SYSTEM, WIND FARM AND WIND TURBINE ~71:BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD., No. 19 Kangding Road, Beijing Economic & Technological Development Zone, Daxing District, Beijing, 100176, People's Republic of China ~72: GUANGDONG YANG;JIYOU BAO;PENG WANG~ 33:CN ~31:202422157956.4 ~32:03/09/2024

2025/06841 ~ Complete ~54:A BLOOD VESSEL HARVESTING DEVICE ~71:VALERIOT FLEXCO, Trauttmansdorffgasse 16/1/1, Austria ~72: FLATSCHER, Michael~ 33:ZA ~31:2023/02417 ~32:24/02/2023

2025/06849 ~ Complete ~54:CAPTIVE BALLOON SUPPORT STRUCTURE ASSEMBLY ~71:MARTINSCHLEDDE, Werner, AN DER SCHULE 5, 33397 RIETBERG, GERMANY, Germany ~72: MARTINSCHLEDDE, Werner~ 33:DE ~31:10 2023 100 916.8 ~32:16/01/2023

2025/06853 ~ Complete ~54:EFFICIENT SEQUENCING-BATCH SLUDGE DRYING DEVICE ~71:BEIJING GEOENVIRON ENGINEERING & TECHNOLOGY, INC., Floor 1, In The Underground 1st To 4th Floor Of Building 13, Courtyard 9, Dijin Road Haidian District, Beijing, 100095, People's Republic of China;TIANJIN GEOENVIRON ENGINEERING & TECHNOLOGY CO., LTD., No. 1-1-808-03, Finance and Trade Center (North Area), No. 6865, Yazhou Road, China (Tianjin) Pilot Free Trade Zone (Dongjiang Bonded Port Zone), Binhai New Area, Tianjin, 300000, People's Republic of China ~72: GANG DU;JINMING LING;JUN CHEN;QINGBIN YANG;YANBING XIN~ 33:CN ~31:202310833438.7 ~32:07/07/2023

2025/06854 ~ Complete ~54:PROCESS FOR PREPARING (15ALPHA,16ALPHA,17BETA)-ESTRA-1,3,5(10)-TRIENE-3,15,16,17-TETROL (ESTETROL) MONOHYDRATE ~71:INDUSTRIALE CHIMICA S.R.L., Via Abbondio Sangiorgio, 12, 20145, Milano, Italy ~72: DANIELE MOSCHENI;MICHELE BALDRIGHI;ROBERTO LENNA~

2025/06856 ~ Provisional ~54:CUEFICCIENT MODULAR WORKFLOW AUTOMATION ~71:Helena Le Grange, 129 Cnr Main and Penzance road Observatory, South Africa ~72: Helena Dolphina Le Grange~

2025/06857 ~ Provisional ~54:INSTANT PAYMENT PLATFORM TO FACILITATE TIPPING OF SERVICE PROVIDERS THAT ARE IDENTIFIED WITH A UNIQUE ID ON THE PLATFORM ~71:Morisha Seupersad, 19 ANGELICA AVENUE, South Africa ~72: Morisha Seupersad~

2025/06815 ~ Provisional ~54:REQUEST A DOCTOR ~71:Clement Lekosha Bokako, 15 Diamond Drive (Stand 821), South Africa ~72: Clement Lekosha Bokako~

2025/06818 ~ Complete ~54:METHOD FOR BIOREMEDIATION OF HEAVY METAL POLLUTION BY LOW-TEMPERATURE RESISTANT SULFATE-REDUCING FLORA ~71:China University of Geosciences, Beijing, 29 Xueyuan Road, Haidian District, Beijing, 100083, People's Republic of China ~72: CHAI Wenping;MIN Ning;SHAO Pengfei;YAO Jun;ZHANG Yifei;ZHAO Yan~

2025/06820 ~ Complete ~54:GROUNDWATER POLLUTION DETECTION DEVICE ~71:Kunming University of Science and Technology, No. 727 Jingming South Road,, Chenggong District, Kunming City, Yunnan Province, 650031, People's Republic of China ~72: Baozhu LI;Guangzhu CAO;Ronggao QIN;Ruoyu MAO;Yanfeng LU;Yi QIANG~

2025/06821 ~ Complete ~54:EXPERIMENTAL DEVICE FOR SIMULATED REMEDIATION OF GROUNDWATER POLLUTION ~71:Kunming University of Science and Technology, No.727 Jingming South Road, Chenggong District, Kunming, Yunnan Province, 650031, People's Republic of China ~72: Baozhu LI;Guangzhu CAO;Ronggao QIN;Ruoyu MAO;Yanfeng LU;Yi QIANG~

2025/06823 ~ Complete ~54:THREE-DIMENSIONAL MODEL FITTING METHOD AND SYSTEM FOR POWER GRID FACILITIES BASED ON FULL-SCENE POINT CLOUDS ~71:Jiangsu Xinghu Technology Co., Ltd, Floor 7, No.190 Mufu South Road, Gulou District, Nanjing City, 210000, People's Republic of China ~72: You, Wancheng;Zheng, Liangzhang~ 33:CN ~31:2024115640911 ~32:05/11/2024

2025/06847 ~ Complete ~54:COMMUNICATION METHOD AND DEVICE AND STORAGE MEDIUM ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, SHENZHEN 518057, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: LIU, Jing;XUE, Fei;ZHANG, Chenchen;ZHOU, Wubin~ 33:CN ~31:202310154032.6 ~32:17/02/2023

2025/06831 ~ Complete ~54:PREPARATION AND APPLICATIONS OF TEMPERATURE-SENSITIVE DRUG-LOADING COMPOSITE NANOPARTICLES ~71:China Agricultural University, No. 2 Yuanmingyuan West Road, HaiDian District, Beijing City, 100193, People's Republic of China ~72: CHEN Chong;LI Yixuan;LIU Siyuan;SHEN Yuemin;ZHANG Hao;ZHANG Weibo~

2025/06836 ~ Complete ~54:ANTI-CMET ANTIBODIES AND METHODS OF USE ~71:BEONE MEDICINES I GMBH, Aeschengraben 27, Switzerland ~72: CHEN, Yun;JIANG, Ming;LI, Hui;LI, Renke;LU, Mengmeng;PAN, Jie;QIAN, Mengran;SUN, Xiaona;TANG, Xiaoyan;WU, Xi;ZHANG, Yanzhou;ZHAO, Zhao~ 33:CN ~31:PCT/CN2023/073074 ~32:19/01/2023;33:CN ~31:PCT/CN2023/103335 ~32:28/06/2023;33:CN ~31:PCT/CN2023/103351 ~32:28/06/2023

2025/06837 ~ Complete ~54:TUBE FOR VOLATILE AND SEMI-VOLATILE COMPOUND SAMPLING AND SAMPLING PROCESS ~71:VSOL ANÁLISES AMBIENTAIS LTDA., RUA AGOSTINO TOGNERI, N° 115, CONJ. A, BAIRRO JURUBATUBA, 04.690-090, Brazil ~72: SATO SATO, Rafael Fernando~ 33:BR ~31:1020230178570 ~32:04/09/2023

2025/06838 ~ Complete ~54:CARPET BACKING BASED ON CARDED TECHNOLOGY ~71:MAGNERA CORPORATION, 9335 Harris Corners Parkway, Suite 300 Charlotte, United States of America ~72: WORMALD, Paul Stuart~ 33:US ~31:63/446,919 ~32:20/02/2023

2025/06846 ~ Complete ~54:ANTI-CD70 ANTIBODY-DRUG CONJUGATES ~71:Ambrx, Inc., 10975 North Torrey Pines Road, Suite 100, LA JOLLA 92037, CA, USA, United States of America ~72: KIM, Ji Young;KNUDSEN, Nickolas;LU, Yingchun;RAMPRASAD, Mysore;SKIDMORE, Lillian~ 33:US ~31:63/480,091 ~32:16/01/2023;33:US ~31:63/492,848 ~32:29/03/2023

2025/06848 ~ Complete ~54:ENHANCED SUBSTRATE FOR MUSHROOMS ~71:Universiteit Utrecht Holding B.V., Heidelberglaan 8, UTRECHT 3584 CS, THE NETHERLANDS, Netherlands ~72: BLEICHRODT, Robert-Jan;WÖSTEN, Herman Abel Bernard~ 33:EP ~31:23157819.6 ~32:21/02/2023

2025/06851 ~ Complete ~54:MULTI-LAYER PLASTICS LAMINATE, AND METHOD FOR THE PRODUCTION THEREOF ~71:CONSTANTIA PIRK GMBH & CO. KG, Pirkmühle 14 - 16, Germany ~72: BÜTTNER, Stefan;DEWALD, Inna;KRAPFL, Thomas~ 33:DE ~31:10 2023 103 371.9 ~32:13/02/2023

2025/06817 ~ Provisional ~54:RENT DEPOSIT GUARANTEE ~71:KGOMOTSO, CLIFF SELOKELA, 1A 4TH STREET, HOUGHTON, South Africa ~72: Kgomotso Cliff Selokela~ 33:ZA ~31:RDG20250814 ~32:14/08/2025

2025/06826 ~ Complete ~54:1,2,4-OXADIAZOLE AND THIADIAZOLE COMPOUNDS AS IMMUNOMODULATORS ~71:AURIGENE ONCOLOGY LIMITED, 39-40, KIADB Industiral Area, Electronic City Phase II, Hosur Road, India ~72: NAREMADDEPALLI, Seetharamaiah Setty Sudarshan;RAMACHANDRA, Muralidhara;SASIKUMAR, Pottayil Govindan Nair~ 33:IN ~31:1178/CHE/2015 ~32:10/03/2015;33:IN ~31:1180/CHE/2015 ~32:10/03/2015

2025/06850 ~ Complete ~54:SODIUM-BASED METAL PRODUCTION SYSTEM ~71:HELIOS PROJECT LTD., 22 Aharon Katsnelson Street, Israel ~72: GALIM, Saar;GEIFMAN, Jonathan;GERLITZ, Itai;HAUSNER, Jonathan;NOY, Aviv;STEIN, Tal;WEINGARTEN, Ronen;ZILBERMAN, Nadav~ 33:US ~31:63/480,106 ~32:17/01/2023

2025/06855 ~ Complete ~54:FUSION PROTEIN HAVING TRIPLE ACTIVITY AND USE THEREOF ~71:SHANGHAI MINWEI BIOTECHNOLOGY CO., LTD., 4/F, Building 8, Lane 500, Furong Hua Road Pudong New Area, Shanghai, 201318, People's Republic of China ~72: DAN LIU;DIXIANG LUO;GUITAO ZHANG;JIANGTAO PENG;SHAODONG ZHONG;WEIYUE HAN;WENXIN SONG~

2025/06843 ~ Complete ~54:PRMT5-MTA INHIBITOR ~71:Suzhou Puhe Biopharma Co., Ltd., 19th Floor, Building 1, Block 1, Tianyun Plaza, No. 111, Wusongjiang Avenue, Guoxiang Street, Wuzhong District, SUZHOU 215124, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: GAO, Feng;GUO, Yongqi;JING, Liandong;LI, Zhizhong;LIU, Bin;WU, Yongyong;WU, Zhuo~ 33:CN ~31:202310060341.7 ~32:17/01/2023;33:CN

~31:202310249725.3 ~32:15/03/2023;33:CN ~31:202310397839.2 ~32:14/04/2023;33:CN ~31:202310642654.3 ~32:01/06/2023;33:CN ~31:202311058640.3 ~32:22/08/2023;33:CN ~31:202311684268.7 ~32:08/12/2023

2025/06824 ~ Complete ~54:FOODSTUFF AND FOODSTUFF MAKING APPARATUS AND METHOD ~71:RAQUEL FATIMA CORREIA LECA, BROOKLYN HOUSE SOUTH, BROOKS STREET, South Africa ~72: JOAO HENRIQUE CARVALHO LECA~ 33:ZA ~31:2024/06292 ~32:15/08/2024

2025/06825 ~ Complete ~54:1,2,4-OXADIAZOLE AND THIADIAZOLE COMPOUNDS AS IMMUNOMODULATORS ~71:AURIGENE ONCOLOGY LIMITED, 39-40, KIADB Industiral Area, Electronic City Phase II, Hosur Road, India ~72: NAREMADDEPALLI, Seetharamaiah Setty Sudarshan;RAMACHANDRA, Muralidhara;SASIKUMAR, Pottayil Govindan Nair~ 33:IN ~31:1178/CHE/2015 ~32:10/03/2015;33:IN ~31:1180/CHE/2015 ~32:10/03/2015

2025/06832 ~ Complete ~54:CELL GROWTH PROMOTER AND APPLICATION THEREOF ~71:China Agricultural University, No. 2 Yuanmingyuan West Road, HaiDian District, Beijing City, 100193, People's Republic of China ~72: CHEN Chong;LI Yixuan;WANG Ran;WANG Xiaoyu;ZHANG Hao;ZHANG Weibo;ZHAO Liang~

2025/06827 ~ Complete ~54:1,2,4-OXADIAZOLE AND THIADIAZOLE COMPOUNDS AS IMMUNOMODULATORS ~71:AURIGENE ONCOLOGY LIMITED, 39-40, KIADB Industiral Area, Electronic City Phase II, Hosur Road, India ~72: NAREMADDEPALLI, Seetharamaiah Setty Sudarshan;RAMACHANDRA, Muralidhara;SASIKUMAR, Pottayil Govindan Nair~ 33:IN ~31:1178/CHE/2015 ~32:10/03/2015;33:IN ~31:1180/CHE/2015 ~32:10/03/2015

2025/06829 ~ Complete ~54:PD-1 HOMING ENDONUCLEASE VARIANTS, COMPOSITIONS, AND METHODS OF USE ~71:Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill, River Road, TARRYTOWN 10591-6707, NY, USA, United States of America ~72: GAY, Joel;JARJOUR, Jordan;MANN, Jasdeep;ZHANG, Joy~ 33:US ~31:62/385,079 ~32:08/09/2016;33:US ~31:62/414,279 ~32:28/10/2016

2025/06834 ~ Complete ~54:PRESENTATION ARRANGEMENT FOR PRESENTING A DOOR CYLINDER AND INSERTION PART FOR SUCH A PRESENTATION ARRANGEMENT ~71:ABUS AUGUST BREMICKER SÖHNE KG, Altenhofer Weg 25, 58300, Wetter-Volmarstein, Germany ~72: FELIX ARNE VOGEL;MEIK RÜTTEN~ 33:DE ~31:102024124855.6 ~32:30/08/2024

2025/06839 ~ Complete ~54:GRADIENT MAGNETIC FIELD DEVICE FOR TARGETED TRANSPLANTATION OF MAGNETIZED CELLS, AND APPLICATION THEREOF ~71:AFFILIATED HOSPITAL OF NANTONG UNIVERSITY, 20 Xisi Road, Nantong City, Jiangsu Province, 226006, People's Republic of China ~72: LIU Qianqian;OUYANG Siguang;SHI Wei~ 33:CN ~31:202311022216.3 ~32:15/08/2023

2025/06840 ~ Complete ~54:BRACKET ASSEMBLY AND MOUNTING METHOD FOR BRACKET ASSEMBLY ~71:China First Highway (Qingdao) Engineering Construction Co., Ltd., T Zone, Cross-border E-commerce Town, No.88 Sancheng Road, Jimo District, Qingdao, Shandong, People's Republic of China;China First Highway Engineering CO.,LTD, Zhoujiajing, Guanzhuang, Chaoyang District, Beijing, People's Republic of China;Haiwei Engineering Construction COLTD. of FHEC of CCCC, Building 1, No.568, Xuxing Road, Tongzhou District, Beijing, People's Republic of China ~72: Jian LI;Mingyu FAN;Shanshan XU~ 33:CN ~31:2024108935881 ~32:04/07/2024

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2025/06858 ~ Provisional ~54:GLOVE ELECTROARTHROGRAPHY ~71:Sipho Duncan Ntshalintshali, 3 Montgomery, South Africa ~72: Sipho Ntshalintshali~ 33:ZA ~31:1 ~32:16/08/2025

2025/06871 ~ Complete ~54:PARALLEL COMPUTING COLLABORATION METHOD FOR HYDRODYNAMIC DYNAMIC REGULATING MODELS ~71:China Institute of Water Resources and Hydropower Research, 20, Chegongzhuang West Road, Haidian District, Beijing, 100038, People's Republic of China ~72: CAO Daling;JIANG Wenjie;QIN Qiaoting;WAN Hongtao;WANG Tuo;ZHANG Hongbin~

2025/06879 ~ Complete ~54:NITROGEN-CONTAINING HETEROCYCLIC COMPOUND HAVING MYT1 INHIBITORY ACTIVITY ~71:Chugai Seiyaku Kabushiki Kaisha, 5-1, Ukima 5-chome, Kita-ku, TOKYO 1158543, JAPAN, Japan ~72: AOKI, Toshihiro;CHIBA, Takashi;KOCHI, Masami;MURATA, Yoshihisa;SUYAMA, Eigo;TOMIZAWA, Masaki~ 33:JP ~31:2023-029673 ~32:28/02/2023

2025/06862 ~ Provisional ~54:EVAPORATIVE COOLING SYSTEM FOR A HYDROPONIC INSTALLATION ~71:NOLAN STEPHEN SEWPERSAD, 9 Falcon Road, Queensburgh, South Africa ~72: SEWPERSAD, Nolan Stephen~

2025/06864 ~ Provisional ~54:A SYSTEM AND METHOD FOR PROVIDING INTERACTIVE TRAINING ~71:Gregory Charles Kingsley DRAKE, 16 ELLIS PLACE, South Africa;James SHERWOOD, 16 ELLIS PLACE, South Africa ~72: Gregory Charles Kingsley DRAKE;James SHERWOOD~

2025/06868 ~ Complete ~54:COMPOSITIONS AND METHODS FOR MODULATING PNPLA3 EXPRESSION ~71:DICERNA PHARMACEUTICALS, INC, 75 Hayden Avenue, Lexington, United States of America ~72: ABRAMS, Marc;BROWN, Bob Dale;DUDEK, Henryk T;SAXENA, Utsav;TURANOV, Anton~ 33:US ~31:63/174,932 ~32:14/04/2021

2025/06859 ~ Provisional ~54:RESQR EMERGENCY IDENTIFICATION SYSTEM: A SYSTEM AND APPARATUS FOR PROVIDING EMERGENCY INFORMATION FOR VEHICLE OPERATORS VIA WEARABLE OR VEHICLE-MOUNTED SCANNABLE MEDIA ~71:Marinus Jansen van Vuuren, 23 Rogers street, Parkview Villas 1, Unit C10, O'Kennedyville, South Africa ~72: Marinus Jansen van Vuuren~

2025/06861 ~ Provisional ~54:MGABADELI MASTER HERB ~71:Fannie, 295, South Africa ~72: Fannie~ 33:ZA ~31:2024/06/178 ~32:11/08/2025

2025/06865 ~ Provisional ~54:HUMP HURD AND BIOCHAR BASED BRICKS OR BLOCKS INFUSED WITH SELECTED MULTI-STRAIN BIO-CULTURES FOR BIOREMEDIATION OF WATER AND SOIL, HELD TOGETHER WITH A PROPRIETARY BINDER ~71:Christopher Swart, 32 Manitoba Road, South Africa;Loretta Beryl Erasmus-Swart, 32 Manitoba Road, South Africa;Octavia Goldner, 32 Manitoba Road, South Africa;Oliver Alexander Erasmus, 32 Manitoba Road, South Africa ~72: Christopher Swart~ 33:ZA ~31:RSA20250818CB0001 ~32:17/08/2025

2025/06878 ~ Complete ~54:SYNTHETIC PATHWAY ACTIVATORS ~71:ARSENAL BIOSCIENCES, INC., 329 Oyster Point Blvd, South San Francisco, United States of America ~72: GARDNER, Thomas;GRAY-RUPP, Levi;YAO, Anzhi~ 33:US ~31:63/489,842 ~32:13/03/2023;33:US ~31:63/495,865 ~32:13/04/2023;33:US ~31:63/613,713 ~32:21/12/2023

2025/06880 ~ Complete ~54:IMIDAZO[4,5-B]PYRIDINE DERIVATIVES USEFUL FOR THE TREATMENT OF ALLERGIC DISEASES, INFLAMMATORY DISEASES, METABOLIC DISEASES, AUTOINFLAMMATORY DISEASES, AUTOIMMUNE DISEASES AND PROLIFERATIVE DISEASES ~71:Galapagos NV, Generaal De Wittelaan L11/A3, MECHELEN 2800, BELGIUM, Belgium ~72: DAO, Justine;GALIEN, René Alexandre;HELLOT, Edouard;PETKOVA, Magdalena Yonkova~ 33:EP ~31:23315010.1 ~32:19/01/2023

2025/06887 ~ Complete ~54:CLASCOTERONE AND MINOXIDIL COMBINATION THERAPY FOR USE IN TREATING HAIR LOSS ~71:CASSIOPEA S.P.A., Via C. Colombo, 1, 20045 Lainate, Milan, Italy ~72: CLARA NOTARIANNI;LUIGI MARIA LONGO;MARA GERLONI~ 33:US ~31:63/494,920 ~32:07/04/2023

2025/06866 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR PREVENTING AND TREATING PORCINE EPIDEMIC DIARRHEA IN PIGLETS AND APPLICATION THEREOF ~71:Institute of Animal Husbandry and Veterinary Science, Jiangxi Academy of Agricultural Sciences, 602 Nanlian Road, Qingyunpu District, Nanchang City, Jiangxi Province, 331000, People's Republic of China ~72: FANG Shaopei;LI Haiqin;LI Na;LIN Cui;TAN Jia;WU Chengcheng;ZENG Yanbing;ZHANG Fanfan~

2025/06881 ~ Complete ~54:PROFILE, PROFILE ARRANGEMENT AND TEMPERATURE CONTROL SYSTEM ~71:BÜHLER, Armin, Am Weihermahd 14, MARKT RETTENBACH 87733, GERMANY, Germany ~72: BÜHLER, Armin;HOFMAYR, Johann~ 33:DE ~31:10 2023 000 206.2 ~32:24/01/2023

2025/06883 ~ Complete ~54:FORMULATIONS COMPRISING ACTRIIA POLYPEPTIDE VARIANTS ~71:Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States of America ~72: BHIWANKAR, Meena Nikhil;LIU, Xiaoqing;SADINENI, Vikram~ 33:US ~31:63/451,198 ~32:09/03/2023

2025/06888 ~ Complete ~54:ALPHA-2-ADRENERGIC AGONISTS FOR IMPROVING VISION ~71:BAUSCH + LOMB IRELAND LIMITED, 3013 Lake Drive, Citywest Business Campus, Dublin, D24, Ireland ~72: MICHAEL E GARST;SCOTT M WHITCUP~ 33:US ~31:63/483,843 ~32:08/02/2023

2025/06869 ~ Complete ~54:ROTOR WITH IMPROVED INVOLUTE-TYPE ROOTS ROTOR PROFILE AND DESIGN METHOD THEREOF ~71:Fuzhou University, Fuzhou University, No. 2 Wulongjiang North Avenue, Fuzhou University City, Minhou County, Fuzhou City, Fujian Province, 350108, People's Republic of China ~72: CAI, Yingjie;HU, Qiang;YANG, Renyi;YAO, Ligang;ZHOU, Hao~

2025/06873 ~ Complete ~54:IRRIGATION ADDITIVE APPARATUS ~71:KIRSTEIN, Rudolph, 24 Giraffe Avenue, MODIMOLLE 0510, Limpopo Province, SOUTH AFRICA, South Africa ~72: KIRSTEIN, Rudolph~ 33:ZA ~31:2024/09239 ~32:03/12/2024

2025/06874 ~ Complete ~54:MONITORING INTEGRITY OF CHARGING RAIL SYSTEM ~71:CATERPILLAR INC., 100 NE Adams Street – AB6450 Peoria, Illinois, 61629-6450, United States of America ~72: MICHAEL D BRAUNSTEIN~ 33:US ~31:17/741,212 ~32:10/05/2022

2025/06876 ~ Complete ~54:AUDIO SIGNAL REPRESENTATION DECODING UNIT AND AUDIO SIGNAL REPRESENTATION ENCODING UNIT ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastraße 27c, Germany ~72: EICHENSEER, Andrea;FUCHS, Guillaume;HOLD, Christoph;MULTRUS, Markus;TAMARAPU, Archit;THIERGART, Oliver;TREFFEHN, Anika;WECKBECKER, Dominik~ 33:EP ~31:PCT/EP2023/054622 ~32:23/02/2023

2025/06929 ~ Provisional ~54:MULTILINGUAL, HAZARD-AWARE, CRIME-RESPONSIVE, AND COMMUNITY-INTEGRATED NAVIGATION SYSTEM FOR ROAD SAFETY IN HIGH-RISK ENVIRONMENTS ~71:Trans Cash Investments (PTY) Ltd, 7 Syringa Ave, Blue Bend, East London, 5241, South Africa, South Africa ~72: Trans Cash Investments (PTY) Ltd~ 33:ZA ~31:0000 ~32:16/08/2025

2025/06886 ~ Complete ~54:METHOD AND SYSTEM FOR CONSTRUCTING MULTI-MODAL MODEL TO PREDICT THERAPEUTIC EFFICACY OF SORAFENIB IN HEPATOCELLULAR CARCINOMA ~71:CENTRAL HOSPITAL OF MINHANG DISTRICT, No. 170 Xin Song Road, Xinzhuang Town, Minhang District, People's Republic of China;FUDAN UNIVERSITY, No. 220 Handan Road, Yangpu District, People's Republic of China ~72: DONG Qiongzhu;Hu Zhiqiu;LI Yixin;LIU Lei;ZHONG Fan~ 33:CN ~31:202410498706.9 ~32:24/04/2024

2025/06889 ~ Complete ~54:CODING METHOD, DECODING METHOD, CODE STREAM, ENCODER, DECODER AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road Wusha Chang'an, Dongguan, Guangdong, 523860, People's Republic of China ~72: FUZHENG YANG;JUNYAN HUO;MING LI;WENHAN QIAO;YANZHUO MA~ 33:CN ~31:202310141452.0 ~32:19/01/2023

2025/06863 ~ Provisional ~54:BC LIFESTYLE ~71:April Baloyi, 1539 Piazza Del Campo, South Africa;Sharmaine Mahlatse Baloyi, 105 Van Wyk Louw Drive, South Africa ~72: APRIL BALOYI~

2025/06860 ~ Provisional ~54:LOANCONNECT SA ~71:Potego Maile, 560 Mbabane Str, South Africa ~72: Potego Maile~ 33:ZA ~31:6 ~32:01/08/2025

2025/06867 ~ Complete ~54:INDEXABLE DISC MILLING CUTTER FOR MACHINING HELICAL ROTOR OF ROOTS BLOWER, AND MOUNTING METHOD ~71:Fuzhou University, Fuzhou University, No. 2 Wulongjiang North Avenue, Fuzhou University City, Minhou County, Fuzhou City, Fujian Province, 350108, People's Republic of China ~72: CAI, Yingjie;DONG, Chaoqian;HU, Qiang;YAO, Ligang;ZHOU, Hao~

2025/06870 ~ Complete ~54:SOLVING SLIDE RULE FOR INVERSE INVOLUTE FUNCTION AND WORKING METHOD THEREOF ~71:Fuzhou University, Fuzhou University, No. 2 Wulongjiang North Avenue, Fuzhou University City, Minhou County, Fuzhou City, Fujian Province, 350108, People's Republic of China ~72: CAI, Yingjie;HU, Qiang;YAO, Ligang;ZHOU, Hao~

2025/06872 ~ Complete ~54:AUTOMATIC DETECTION METHOD AND SYSTEM FOR MISSING COMPONENT OF TRANSMISSION TOWER BASED ON MULTI-SOURCE DATA ~71:Jiangsu Xinghu Technology Co., Ltd, Floor 7, No.190 Mufu South Road, Gulou District, Nanjing City, 210000, People's Republic of China ~72: Du, Mingyu;Fang, Chao;Gou, Xinping;Li, Wenzhou;Liang, Biao;Shi, Qilong;You, Wancheng;Zhang, Zhi;Zheng, Liangzhang~ 33:CN ~31:2024114374780 ~32:15/10/2024

2025/06875 ~ Complete ~54:MONITORING ORE ~71:STONE THREE DIGITAL (PTY) LTD, 24 Gardner Williams Avenue, South Africa ~72: BOTHA, Kristo;HAASBROEK, Adriaan Lodewicus;IRWIN, Shaun George;STREICHER, Simon Jacobus~ 33:ZA ~31:2018/06000 ~32:07/09/2018

2025/06877 ~ Complete ~54:ANTI-NETRIN-1 MONOCLONAL ANTIBODY FOR TREATING ENDOMETRIOSIS AND ASSOCIATED PAINS ~71:CENTRE LEON BERARD, 28, rue Laennec, France;CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3, rue Michel Ange, France;FLINDERS UNIVERSITY, Sturt Road, Australia;INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE, 101, Rue de Tolbiac, France;NETRIS PHARMA, 28 rue Laennec Centre Léon Bérard, France;SOUTH AUSTRALIAN HEALTH AND MEDICAL RESEARCH INSTITUTE LIMITED, 870 North Terrace, Australia;UNIVERSITÉ CLAUDE BERNARD LYON 1, 43, boulevard du 11 novembre 1918, France ~72: BERNET, Agnès;BRIERLEY, Stuart;CASTRO KRAFTCHENKO, Joel;DUCAROUGE, Benjamin;MADDERN, Jessica Elizabeth;MEHLEN, Patrick~ 33:EP ~31:23305259.6 ~32:27/02/2023

2025/06882 ~ Complete ~54:RESOL RESIN STABILIZED BY A UREA DERIVATIVE ~71:Saint-Gobain Isover, Tour Saint-Gobain, 12, Place de l'Iris, COURBEVOIE 92400, FRANCE, France ~72: LEGRAND, Aurélie;OBERT, Edouard;PONSARD, Louise~ 33:FR ~31:FR2302521 ~32:17/03/2023

2025/06885 ~ Complete ~54:NUCLEIC ACID MOLECULES ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: BLAIR, Wade Stanton;DOUTHWAITE, Julie Ann;FRANCICA, Joseph Richard;GRIFFIN, Gareth John;HARDMAN, Colin Harold;LALIBERTE, Jason Paul;LOO, Yueh-Ming;NEWTON, Philip;THOM, Albert George~ 33:US ~31:63/480,749 ~32:20/01/2023

2025/06891 ~ Provisional ~54:V-LOCK-PROFILE FRICTION BOLT SYSTEM ~71:Theodore Daniel Swemmer, PO Box 75746, South Africa ~72: Theodore Daniel Swemmer~

2025/06927 ~ Provisional ~54:"AI DRIVEN LIVE STREAMING SYSTEM FOR SPORTS USING ROBOT,VIDEO AND STILL CAMERAS AND MOBILE DEVICES ~71:KEEGAN MATTHEW WILLIAM STRANACK, 999 NEW CHUM STREET LITTLE FALLS, South Africa ~72: KEEGAN MATTHEW WILLIAM STRANACK~

2025/06884 ~ Complete ~54:SYSTEM AND METHOD FOR FRACTIONAL ELUTION OF MOTHER-DAUGHTER RADIONUCLIDES ~71:NorthStar Medical Technologies, LLC, 1800 Gateway Blvd., BELOIT 53511, WI, USA, United States of America ~72: BLUEMNER, Erik;DEVRIES, Daniel;HARVEY, James T.;ISENSEE, Glenn;LUST, Dorian~ 33:US ~31:63/449,185 ~32:01/03/2023

2025/06890 ~ Complete ~54:MONOLITHIC MOLDED FAN COMPONENTS AND METHOD FOR THEIR MANUFACTURE ~71:EVAPCO, INC., 5151 Allendale Lane, Taneytown, Maryland, 21787, United States of America ~72: BITENCOURT, Lairton Roleto;HATORI, Marcos Eidi;LOPES, Márcio Rogério;STRAUSS, Daniel~ 33:US ~31:63/483,724 ~32:07/02/2023;33:US ~31:18/435,946 ~32:07/02/2024

2025/06928 ~ Provisional ~54:VAYAA: A MULTI-MODAL, SAFETY-ENHANCED, AND LOCALLY ADAPTIVE E-HAILING SYSTEM WITH INTEGRATED AIRPORT TRANSPORT MANAGEMENT ~71:Bongani Lindokuhle, 228 Mzimba Zuma Section, South Africa ~72: Bongani Lindokuhle~

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2025/06894 ~ Provisional ~54:VIRTUAL FITTING AND PERSONAL WARDROBE ASSISTANT ~71:Sibonakaliso Gama, 09 Sonkyker Street, South Africa ~72: Sibonakaliso Gama~

2025/06892 ~ Provisional ~54:BLAST ENABLER ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: LIEBENBERG, Abrie;SCHLENTER, Craig~

2025/06905 ~ Complete ~54:TRAFFIC PARTICIPANT ALERT COMPLEX FOR PREVENTING THEIR COLLISIONS ~71:TITOV, Artem Valerevich, Building 24, Lavochkina Street, Russian Federation ~72: TITOV, Artem Valerevich~ 33:RU ~31:2024124408 ~32:21/08/2024

2025/06907 ~ Complete ~54:ANTI-FEL D1 ANTIBODY FORMULATIONS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CHEN, Hunter;MINOCHA, Shalini;NANDAGIRI, Ritwik;SHARMA, Saurav;TANG, Xiaolin;TZUL, Franco~ 33:US ~31:63/487,791 ~32:01/03/2023

2025/06910 ~ Complete ~54:TWO-PHASE FOGGING JET NOZZLE ~71:ZELUP, 38 RUE DE L'UNIVERSITÉ, 69007 LYON, FRANCE, France;ÉTAT FRANÇAIS REPRÉSENTÉ PAR LE PRÉFET DE POLICE, AGISSANT AU NOM ET POUR LE COMPTE DE LA VILLE DE PARIS, RELATIVEMENT À LA BRIGADE DE SAPEURS-POMPIERS DE PARIS, 1 PLACE JULES RENARD, 75017 PARIS, FRANCE, France ~72: ISSLER, Thomas;TESTA, Fabian~ 33:FR ~31:FR2300885 ~32:31/01/2023

2025/06896 ~ Provisional ~54:AIR FLOW BIODIESEL WICK STOVE ~71:GSi Pty(Ltd), 454 Kawu street ramokonopi east, South Africa ~72: Sebastian Muziwandile Dlamini~

2025/06901 ~ Complete ~54:MUNICIPAL SLUDGE RESOURCE COMPREHENSIVE UTILIZATION DEVICE ~71:NingboTech University, No.1 Qianhu South Road, Yinzhou District, Ningbo City, Zhejiang Province, 315100, People's Republic of China ~72: FU, Jiaqi;GAO, Fuyan;LI, Jianxin;SUN, Chenghui;WANG, Yongchuan;YANG, Fan~ 33:CN ~31:202510220202.5 ~32:26/02/2025

2025/06904 ~ Complete ~54:OPHTHALMIC IRRIGATION DEVICE ~71:LIU Lin, No. 251 Fu Kang Road, Nankai District, Tianjin City, 300384, People's Republic of China;Tianjin Medical University Eye Hospital, No. 251 Fu Kang Road, Nankai District, Tianjin City, 300384, People's Republic of China ~72: HUANG Shaohui;LIU Hua;LIU Lin;LIU Qing~

2025/06919 ~ Complete ~54:DELFI-DERIVED CELL-FREE DNA FRAGMENTATION PATTERNS DIFFERENTIATE HISTOLOGIC SUBTYPES OF LUNG CANCERS IN A NON-INVASIVE MANNER ~71:DELFI DIAGNOSTICS, INC., 2809 Boston Street, Suite 503, Baltimore, Maryland, 21224, United States of America ~72: LORENZO RINALDI;ZACHARY L SKIDMORE~ 33:US ~31:63/445,284 ~32:13/02/2023;33:US ~31:63/470,101 ~32:31/05/2023;33:US ~31:63/528,237 ~32:21/07/2023

2025/06922 ~ Complete ~54:PRODUCTION OF POXVIRUSES FROM QUAIL CELL CULTURES ~71:BAVARIAN NORDIC A/S, Philip Heymans Alle 3, 2900, Hellerup, Denmark ~72: ATHINA ANDREA;HENRIK HERTZ;JANUS FALHOF;JÜRGEN HAUSMANN;MARC SCHWENEKER;MARKUS KALLA;SUSAN HOFFMANN THRANE~ 33:EP ~31:23161210.2 ~32:10/03/2023

2025/06893 ~ Provisional ~54:SYSTEM AND METHOD FOR DIGITAL CERTIFICATION OF TRUE COPIES OF DOCUMENTS ~71:Jacobus Marius van der Westhuizen, 29 House Sparrow Street, South Africa ~72: Jacobus Marius van der Westhuizen~

2025/06895 ~ Provisional ~54:A SYSTEM FOR DETECTING A SECURITY BREACH ~71:SENTINEL LABS (PTY) LTD, 796 FRHENSCH STREET, MORELETA PARK, South Africa ~72: ANTHONY LAING~

2025/06897 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE THERAPEUTIC HOT COMPRESS DEVICE ~71:Huan Yang, No. 58, Huanhai Road, Zhifu Dist., Yantai, Shandong, People's Republic of China ~72: Huan Yang~

2025/06915 ~ Complete ~54:AN INSECT REPELLENT ~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: BERGAMASCHI, Andrea~ 33:IT ~31:102023000002862 ~32:20/02/2023

2025/06920 ~ Complete ~54:FORMULATION FOR STABILIZATION OF BIOLOGICAL MATERIALS ~71:INDIGO AG, INC., 500 Rutherford Avenue, North Building, Boston, Massachusetts, 02129, United States of America ~72: BRIAN M SCHUSTER;II CHRISTOPHER M DACUNHA;LAURA A SAUDER~ 33:US ~31:63/484,188 ~32:09/02/2023;33:US ~31:63/513,333 ~32:12/07/2023;33:US ~31:63/514,864 ~32:21/07/2023

2025/06924 ~ Complete ~54:COMBINATION THERAPY ~71:AMPLIA THERAPEUTICS LIMITED, Level 5, 90 William Street, Melbourne, Victoria 3000, Australia;GARVAN INSTITUTE OF MEDICAL RESEARCH, 384 Victoria Street, Darlinghurst, New South Wales, 2010, Australia ~72: DAVID HERRMANN;JOHN LAMBERT;KENDELLE MURPHY;MARK DEVLIN;PAUL TIMPSON;TERRIE-ANNE COCK~ 33:AU ~31:2023900354 ~32:14/02/2023

2025/06926 ~ Complete ~54:MEDICAL IMAGING APPARATUS, SYSTEM AND METHOD ~71:SMARTRAY PTY LTD, U 4 20 Norfolk St, Fremantle, Western Australia, 6160, Australia ~72: NIVBRANT, Nils Oscar~ 33:AU ~31:2023900425 ~32:20/02/2023

2025/06912 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE TREATMENT OF NEUROLOGICAL DISORDERS RELATED TO GLUCOSYLCERAMIDASE BETA 1 DEFICIENCY ~71:Voyager Therapeutics, Inc., 75 Hayden Ave., LEXINGTON 02421, MA, USA, United States of America ~72: CARTER, Todd;CHUNG, Hiu Yan;KNOLL, Elisabeth~ 33:IB ~31:2023/061837 ~32:02/02/2023

2025/06899 ~ Complete ~54:A DISPOSABLE AIRWAY DILATOR ~71:Jiangsu Cancer Hospital, Jiangsu Institute of Cancer Research, The Affiliated Cancer Hospital of Nanjing Medical University, No. 42, Baiziting, Xuanwu District, Nanjing City, Jiangsu Province, 210009, People's Republic of China ~72: Hui Liu~

2025/06906 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITION OF EXPRESSION OF INHIBIN SUBUNIT BETA E (INHBE) GENES ~71:BASECURE THERAPEUTICS LLC, 3500 South DuPont Highway, Dover, United States of America ~72: FANG, Zhou;KIM, Kevin J.;LIN, Luping;MONTERO, Saul Martinez;PARATHATH, Sajesh;YANG, Jing;ZHANG, Tianbu~ 33:US ~31:63/489,325 ~32:09/03/2023

2025/06913 ~ Complete ~54:READY TO DRINK ELECTROLYTE SOLUTION ~71:Kenvue Brands LLC, 1 Kenvue Way, SUMMIT 07901, NJ, USA, United States of America ~72: MEER, Tarique Ali;PINTO, Colin~ 33:IN ~31:202311004093 ~32:20/01/2023

2025/06916 ~ Complete ~54:AN AGROCHEMICAL COMBINATION ~71:UPL Limited, Uniphos House, CD Marg, 11th Road, Madhu Park, Khar (West), MUMBAI 400052, INDIA, India ~72: JADHAV, Sujata~ 33:IN ~31:202321011488 ~32:20/02/2023

2025/06921 ~ Complete ~54:METHODS, DEVICES, AND SYSTEMS FOR CAPABILITY COORDINATION IN DUAL-CONNECTION ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, Shenzhen, Guangdong, 518057, People's Republic of China ~72: HE HUANG;JING LIU;LI NIU;WENTING LI~

2025/06898 ~ Complete ~54:NURSING BOX FOR BLOOD PURIFICATION ~71:Zhuhai People’s Hospital, No. 79, Kangning Road, Xiangzhou Dist., Zhuhai, Guangdong, People's Republic of China ~72: Liping Lai~

2025/06902 ~ Complete ~54:IMMUNOGENIC COMPOSITIONS TO TREAT AND PREVENT MICROBIAL INFECTIONS ~71:LONGHORN VACCINES & DIAGNOSTICS, LLC, 2 Bethesda Metro Center, Suite 910, Bethesda, United States of America ~72: DAUM, Luke T.;FISCHER, Gerald W.;SEI, Clara J.~ 33:US ~31:62/971,036 ~32:06/02/2020;33:US ~31:62/971,654 ~32:07/02/2020;33:US ~31:63/109,966 ~32:05/11/2020

2025/06903 ~ Complete ~54:A BIOMASS CRACKING REACTOR ~71:Nanyang Taiyue New Material Technology Co., Ltd, No.28, Changling Industrial Park, Nanhedian Town, Nanzhao County, Henan Province, 474668, People's Republic of China ~72: Li Dachao;Liu Heting;Ruan Yupu;Yao Qiushuo;Zhou Fengyong~

2025/06911 ~ Complete ~54:OCULAR IMPLANT COMPRISING AXITINIB POLYMORPH IV ~71:Ocular Therapeutix, Inc., 15 Crosby Drive, BEDFORD 01730, MA, USA, United States of America ~72: BLIZZARD, Charles D.;BRAUN, Elizabeth;EL-HAYEK, Rami;GURSES-OZDEN, Rabia;IACONA, Joseph;ISOM, William;JARRETT, Peter;KAHN, Erica;PATEL, Chintan;RANSBOTTOM, Mark;SHERMAN, Olivia~ 33:US ~31:63/458,558 ~32:11/04/2023;33:US ~31:63/546,064 ~32:27/10/2023;33:US ~31:63/609,334 ~32:12/12/2023

2025/06925 ~ Complete ~54:ENCODING METHOD, DECODING METHOD, CODE STREAM, ENCODER, DECODER, AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang'an, Dongguan, Guangdong 523860, People's Republic of China ~72: FUZHENG YANG;JUNYAN HUO;MING LI;WENHAN QIAO;YANZHUO MA~

2025/06900 ~ Complete ~54:THYROID SURGERY RISK ASSESSMENT SYSTEM BASED ON ARTIFICIAL INTELLIGENCE ~71:The Second Affiliated Hospital of Fujian University of Traditional Chinese Medicine, No. 282 Wusi Road, Gulou District, Fuzhou, Fujian, People's Republic of China ~72: Fei Gao;Sicong Zhou;Wenbin Huang;Ying Zhong~ 33:CN ~31:202510369635.7 ~32:27/03/2025

2025/06909 ~ Complete ~54:INHIBITORS OF NLRP3 ~71:MWYNGIL THERAPEUTICS, INC., 8 The Green, Ste 8498, United States of America ~72: KYSIL, Volodymyr;ROGOVOY, Boris;SAVCHUK, Nikolay~ 33:US ~31:63/441,687 ~32:27/01/2023

2025/06914 ~ Complete ~54:ADVANCED MANUFACTURING HEAT PIPE SEGMENT WITH INTEGRAL PRINTED WICK ~71:Westinghouse Electric Company LLC, 1000 Westinghouse Drive, Suite 141, CRANBERRY TOWNSHIP 16066, PA, USA, United States of America ~72: ARMSTRONG, Clinton B.;SHOUP, Jeffrey~ 33:US ~31:18/164,911 ~32:06/02/2023

2025/06917 ~ Complete ~54:PHARMACEUTICAL COMPOSITION AND METHOD FOR ACTIVATING IMMUNITY AGAINST TUMOR ~71:KORTUC JAPAN LLC, Shiroyama Trust Tower, 4F, 4-3-1 Toranomon, Minato-ku, Tokyo, 1056004, Japan ~72: HIROYUKI SUDA;YOSUKE TOGASHI~ 33:JP ~31:2023-023847 ~32:17/02/2023

2025/06908 ~ Complete ~54:INTEGRATED MAGNETIC SEPARATION APPARATUS ~71:BEIJING SAVANT BIOTECHNOLOGY CO., LTD., 101-301, 302, 3rd Floor, Building 4, Yard 8, Liangshuihe Second Street, Beijing Economic And Technological Development Zone, Daxing District,, Beijing, 100176, People's Republic of China;TIANJIN SAVANT BIOTECHNOLOGY CO., LTD., 12 Yongkang Road, Tianjin Beichen Economic And Technological Development High-end Park, Beichen District,, Tianjin, 300000, People's Republic of China ~72: Chenguang HU;Kang DU;Si LIN;Xian HUANG;Xinquan LIU;Zhen YANG~ 33:CN ~31:202310601210.5 ~32:26/05/2023

2025/06918 ~ Complete ~54:SCALE INHIBITOR AND SCALE INHIBITING METHOD FOR REVERSE OSMOSIS MEMBRANE ~71:KURITA WATER INDUSTRIES LTD., 10-1, Nakano 4-Chome, Nakano-ku, Tokyo, 164-0001, Japan ~72: KUNIHIRO HAYAKAWA;YUHEI OSHIBA~ 33:JP ~31:2023-038665 ~32:13/03/2023

2025/06923 ~ Complete ~54:RECIRCULATING INERTIAL HYDRODYNAMIC PUMP AND WAVE ENGINE ~71:LONE GULL HOLDINGS, LTD., 5331 S. Macadam Ave., Suite 258, PMB 332 Portland, Oregon, 97239, United States of America ~72: BRIAN LEE MOFFAT;GARTH ALEXANDER SHELDON-COULSON~ 33:US ~31:63/452,676 ~32:16/03/2023;33:US ~31:18/597,749 ~32:06/03/2024

. - APPLIED ON 2025/08/20 -

2025/06930 ~ Provisional ~54:LACE REPLACE ~71:Baloyi Marvin Lehlogonolo, street 44, South Africa ~72: Marvin Lehlogonolo Baloyi~

2025/06941 ~ Complete ~54:A METHOD FOR ECOLOGICAL PREVENTION OF CAPSICUM ANNUUM WILT, ROOT KNOT NEMATODE AND PHYTOPHTHORA BLIGHT BY TAGETES ERECTA AND PERILLA FRUTESCENS ~71:Dezhou Academy of Agricultural Sciences, No.1245, Daxue West Road, Decheng District, Dezhou City, Shandong Province, People's Republic of China ~72: Chang peipei;Duan qingqing;Han meimei;Li hua;Li tengfei;Wang jingjing;Wang youping;Zhang luqi;Zhang shaoli;Zhang zikun~ 33:CN ~31:2025101065800 ~32:23/01/2025

2025/06983 ~ Provisional ~54:BIZQUOTEAI ~71:Jacques De Beer, 26 Shrike Road, South Africa ~72: Jacques De Beer~

2025/06943 ~ Complete ~54:DETONATION CORD AFFIXING DEVICE ~71:LUBBE, Gert, Petrus, 74 GRIETJIE HOEWES, PHALABORWA, 1390, SOUTH AFRICA, South Africa;ZACA, Salvatore, 27B VILJOEN STREET, MIDDELBURG, MPUMALANGA, 1050, SOUTH AFRICA, South Africa ~72: LUBBE, Gert, Petrus~

2025/06942 ~ Complete ~54:SYSTEM AND METHOD FOR MINING COAL MIGRATION AND CONTROLLING EMPTY LANE IN DIFFERENT LAYERS ~71:CHINA UNIVERSITY OF MINING AND TECHNOLOGY-BEIJING, 11 Xueyuan Road Ding, Haidian District, Beijing City, 100083, People's Republic of China ~72: CHEN Dongdong;GU Wenzhe;PAN Hao;WANG Shengbiao;WANG Zhigen;XIE Shengrong;ZHU Lei~ 33:CN ~31:2025102863494 ~32:12/03/2025

2025/06944 ~ Complete ~54:COOKING APPARATUS ~71:SWANEPOEL, Daniel, Coenraad, 29 LONGLANDS COUNTRY ESTATE, POLKADRAAI ROAD, STELLENBOSCH, 7600, South Africa ~72: SWANEPOEL, Daniel, Coenraad~

2025/06947 ~ Complete ~54:AN AGRICULTURE RENEWABLE FACILITY SYSTEM ~71:LETLOU ENERGY (PTY) LTD., 53 Main Road, CLAREMONT, Cape Town 7708, Western Cape Province, SOUTH AFRICA, South Africa ~72: MAKO, Rebaone~ 33:ZA ~31:2024/06004 ~32:05/08/2024

2025/06949 ~ Complete ~54:NOVEL MINOXIDIL HAIR-GROWING TINCTURE AND PREPARATION METHOD THEREOF ~71:HUANG HONGXING, No. 4 Building, Zone 1, Fenghuangbei New Village, Gulou District, People's Republic of China ~72: CHEN, Bingci;HUANG, Hongquan;HUANG, Hongxing;WU, Ting;XU, Xueqin;YU, Shiqian;ZHANG, Chaohui;ZHANG, Junyao;ZHOU, Jiedi~

2025/06961 ~ Complete ~54:COMBINED INPUT FORMAT SPATIAL AUDIO ENCODING ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: VASILACHE, Adriana~ 33:GB ~31:2302711.3 ~32:24/02/2023

2025/06966 ~ Complete ~54:OBJECT HANDLING SYSTEM, INDUSTRIAL FACILITY COMPRISING AN OBJECT HANDLING SYSTEM, METHOD FOR MAINTAINING AN OBJECT HANDLING SYSTEM AND METHOD FOR ASSEMBLING AN OBJECT HANDLING SYSTEM ~71:TOMRA SORTING GMBH, Otto-Hahn-Straße 2-6, 56218, Mülheim-Kärlich, Germany ~72: DIRK BALTHASAR;MALTE ALTHAUS~ 33:EP ~31:23160971.0 ~32:09/03/2023

2025/06975 ~ Complete ~54:STABILIZED AGROCHEMICAL COMPOSITION ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BIRCHER, Rene Rolf;BREMONT VERNET, Anne-Laure;FOWLER, Jeffrey David;LEBEDEVA, Natalia;NARSALE, Jelena;ROBBINS, Leanna;SCHMIDT, Warren;VARSHNEY, Manoj~ 33:EP ~31:23161438.9 ~32:13/03/2023

2025/06981 ~ Complete ~54:ANTIBODIES, ANTIGEN-BINDING FRAGMENTS AND METHODS OF USE ~71:CHANGZHOU HANSOH PHARMACEUTICAL CO., LTD., 1028 Liaohe Road, Xinbei District, People's Republic of China;HANSOH BIO LLC, Hansoh Bio, 9900 Medical Center Drive, United States of America;SHANGHAI HANSOH BIOMEDICAL CO., LTD., Building 11, NO.3728 Jinke Road, (Shanghai) Pilot Free Trade Zone, People's Republic of China ~72: LI, Qing;ZHOU, Ningyun~ 33:US ~31:63/486522 ~32:23/02/2023

2025/06931 ~ Provisional ~54:FIRE DETECTION AND SUPPRESSION SYSTEM ~71:VAN DER MERWE, Antonie, Duminy, 37 SHIELD STREET, THE GLADES ESTATE, WAPADRAND, PRETORIA, 0050, SOUTH AFRICA, South Africa;VAN REENEN, James, John, 279 SIDNEY AVE., UNIT 13 WATERKLOOF VILLAGE, WATERKLOOF, PRETORIA, 0181, SOUTH AFRICA, South Africa ~72: ESTERHUIZEN, Daniel, Frederik, Hermanus;VAN DER MERWE, Antonie, Duminy;VAN ZYL, Percy, Henry, Stanley~

2025/06940 ~ Complete ~54:METHOD FOR DETECTING MODIFICATION EFFECT OF RUBBER-MODIFIED ASPHALT ~71:Inner Mongolia Agricultural University, No. 306, Zhaowuda Road, Saihan District, Hohhot City, Inner Mongolia Autonomous Region, 010018, People's Republic of China ~72: GAO Mingxing;KOU Wenqi;LI Danlan;LI Hangtian;LIANG Jiali;LYU Qingyong;MA Dongmei;WANG Haoyang;ZHAO Sheng;ZHAO Ting~

2025/06938 ~ Provisional ~54:NANOFOAM WITH NI NANOPARTICLES FOR H2 REDOX STIMULATION IN SERPENTINIZATION FOR AMPLIFICATION AND STIMULATION ~71:Abdelmoumen Shad SERROUNE, N 5 Sturdee Avenue Suite 301, Gauteng, Rosebank, Johannesbourg, 2196, South Africa ~72: Abdelmoumen Shad SERROUNE~

2025/06945 ~ Complete ~54:DOSING REGIMENS ASSOCIATED WITH EXTENDED RELEASE PALIPERIDONE INJECTABLE FORMULATIONS ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE 2340, BELGIUM, Belgium ~72: GOPAL, Srihari;T'JOLLYN, Huybrecht;VENKATASUBRAMANIAN, Raja~ 33:US ~31:63/119,405 ~32:30/11/2020

2025/06948 ~ Complete ~54:DIAGNOSTIC KIT FOR ACINIC CELL CARCINOMA ~71:PEKING UNIVERSITY SCHOOL OF STOMATOLOGY, 22 Zhongguancun South Street, Haidian District, People's Republic of China ~72: LI, Tiejun;LI, Xuefen;LIU, Xiaoxiao;SUN, Lisha;SUN, Zhipeng;ZHANG, Heyu;ZHANG, Ye;ZHAO, Junru;ZHU, Lijing~

2025/06952 ~ Complete ~54:SYSTEM FOR CONTROLLING SLIDING WINDOW OR DOOR LEAF POSITION ~71:LIMITED LIABILITY COMPANY ELAIRE, VN.TER.G. MUNITSYPALNYI OKRUG KRYUKOVO, G ZELENOGRAD, K. 1651, POMESHCH. 1/1, MOSCOW, 124365, Russian Federation ~72: KRAVCHENKO Artem Aleksandrovich;MOSALOVA Tatiana Nikolaevna~ 33:RU ~31:2025119664 ~32:17/07/2025

2025/06974 ~ Complete ~54:METHOD AND SYSTEM OF PREDICTING PREGNANCY OUTCOMES AND QUALITY GRADES IN MAMMALIAN EMBRYOS ~71:Vytelle LLC, 8789 Penrose Lane, Suite 250, LENEXA 66219, KS, USA, United States of America ~72: GRUHOT, Tasha;SANCHES, Bruno Valente~ 33:US ~31:63/492,879 ~32:29/03/2023

2025/06982 ~ Provisional ~54:CREDIT RISK DECISIONING AND SCORE ~71:Hermanus Johannes de Jager, 37 union street, South Africa ~72: Hermanus Johannes de Jager~

2025/06933 ~ Provisional ~54:ADAPTIVE ENERGY MANAGEMENT SYSTEM FOR MULTI-MODE THERMAL ENERGY STORAGE AND DISTRIBUTION ~71:BTB IP (Pty) Ltd, 37 Loddon road, South Africa ~72: BTB IP (Pty) Ltd~

2025/06934 ~ Provisional ~54:SHOE WASHING AND POLISHING MACHINE WITH STABILIZING CLIPS AND INTEGRATED LACE-CLEANING BASKET ~71:Mohale Lawrence Modika, 6728 blue daisy close, South Africa ~72: Mohale Lawrence Modika~

2025/06935 ~ Provisional ~54:PIPE AND CONNECTOR ASSEMBLY ~71:WRIGHT, John Peter, 161 Galjoen Road, Wadeville, South Africa ~72: WRIGHT, John Peter~

2025/06937 ~ Provisional ~54:THE BANK APP ~71:Might Nxumalo, 459 Tempest Street, South Africa ~72: Kabelo Wordsworth Ikaneng;Might Nxumalo~

2025/06939 ~ Provisional ~54:HABITRACE – ESIM-ENABLED SYSTEM FOR HOUSING NEEDS VERIFICATION AND GEO-INTELLIGENT PLANNING PUBLIC-FACING INTERFACE: TRACEMAP360 ~71:SKELI SYSTEMS PTY LTD, THE OVAL CENTURION 1ST FLOOR, MEADOWBROOK STREET, South Africa ~72: PULENG PETER MABE~

2025/06946 ~ Complete ~54:CONSTRUCTION ELEMENT, CONSTRUCTION SYSTEM AND METHOD OF CONSTRUCTION ~71:OSBORN, Simon Edward, c/o SKP Engineers (Pty) Ltd, Business Partners Building, 23 Jan Hofmeyr Road, Westville, Durban 3630, SOUTH AFRICA, South Africa ~72: OSBORN, Simon Edward~ 33:ZA ~31:2024/03913 ~32:21/05/2024

2025/06953 ~ Complete ~54:SYSTEM FOR CONTROLLING TURNING, TILTING, TURN-AND-TILT OR AWNING WINDOW OR DOOR LEAF POSITION ~71:LIMITED LIABILITY COMPANY ELAIRE, VN.TER.G. MUNITSYPALNYI OKRUG KRYUKOVO, G ZELENOGRAD, K. 1651, POMESHCH. 1/1, MOSCOW, 124365, Russian Federation ~72: KRAVCHENKO Artem Aleksandrovich;MOSALOVA Tatiana Nikolaevna~ 33:RU ~31:2025119661 ~32:17/07/2025

2025/06963 ~ Complete ~54:HOT-ROLLED STEEL SHEET AND METHOD FOR PRODUCING SAME ~71:JFE STEEL CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo, 1000011, Japan ~72: EISUKE SUMIDA;HIDEYUKI KIMURA;YOICHIRO MATSUI~ 33:JP ~31:2023-051514 ~32:28/03/2023

2025/06965 ~ Complete ~54:HETEROCYCLIC COMPOUND AND USE THEREOF ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda Tsukasa-machi, Chiyoda-ku, Tokyo, 1018535, Japan ~72: AKIE OKADA;ATSUSHI HOSOMI;DAIKI KANEKO;MASASHI HAYASHI;MINORU OKADA;NAOJI KIMURA;NOBUAKI ITO;NOBUTOMO SAKO;NORIAKI YODA;REO KAWATA;SHINYA OKAWA;TAKAKUNI MATSUDA;TAKUYA MINOWA;TETSUYA SATO;TOSHIHISA KOGA;TOSHIO SHINOHARA;YOHEI YUKI~ 33:JP ~31:2023-076322 ~32:02/05/2023;33:JP ~31:2024-058286 ~32:29/03/2024

2025/06951 ~ Complete ~54:SYSTEM FOR CONTROLLING TURNING, TILTING, TURN-AND-TILT OR AWNING WINDOW OR DOOR LEAF POSITION ~71:LIMITED LIABILITY COMPANY ELAIRE, VN.TER.G. MUNITSYPALNYI OKRUG KRYUKOVO, G ZELENOGRAD, K. 1651, POMESHCH. 1/1, MOSCOW, 124365, Russian Federation ~72: KRAVCHENKO Artem Aleksandrovich;MOSALOVA Tatiana Nikolaevna~ 33:RU ~31:2025119660 ~32:17/07/2025

2025/06960 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING INTERLEUKIN-2 (IL-2) ANALOG OR CONJUGATE THEREOF FOR PREVENTING OR TREATING CANCER ~71:HANMI PHARM. CO., LTD., 214, MUHA-RO, PALTAN-MYEON, HWASEONG-SI, GYEONGGI-DO 18536, REPUBLIC OF KOREA, Republic of Korea ~72: CHOI, Jae Hyuk;HEO, Yong Ho;KIM, Jin Young;KIM, Min Young;KIM, Yu Yon;LEE, A Ram;PARK, Da Hyeon;PARK, Jun Sub~ 33:KR ~31:10-2023-0029833 ~32:07/03/2023

2025/06962 ~ Complete ~54:GATE VALVE WITH IMPROVED SEAL GROOVE ~71:WEIR MINERALS U.S. INC., 4927 W 2400S, Suite 100,, United States of America ~72: GULIHOSAHALLY DYAMAPPA, Satish;KRISHNARAJANAGAR SUDHAKAR, Guruprasad;PAI, Gurudatta~ 33:GB ~31:2303551.2 ~32:10/03/2023

2025/06968 ~ Complete ~54:METHOD FOR THE GENERATION OF HYDROGEN ~71:HYDROGENR8 LIMITED, One Bartholomew Close, London, EC1A 7BL, United Kingdom ~72: JOHN ANDERSON;MARTIN MOORE~ 33:GB ~31:2302435.9 ~32:21/02/2023

2025/06977 ~ Complete ~54:ANTI-CD3 MULTISPECIFIC ANTIBODIES AND METHODS OF USE ~71:BeOne Medicines I GmbH, Aeschengraben 27, BASEL 4051 , SWITZERLAND, Switzerland ~72: CHEN, Yun;DING, Yao;JI, Ruyue;LEI, Ming;XUE, Liu~ 33:IB ~31:2023/079817 ~32:06/03/2023

2025/06956 ~ Complete ~54:POLYPROPYLENE PRODUCTION USING A PROPYLENE STREAM COMPRISING PROPANE ~71:LUMMUS NOVOLEN TECHNOLOGY GMBH, Gottlieb-Daimler-Straße 8, Germany ~72: BANGERTH, Stefan~ 33:EP ~31:23159253.6 ~32:28/02/2023

2025/06964 ~ Complete ~54:HOT-ROLLED STEEL SHEET AND METHOD FOR PRODUCING SAME ~71:JFE STEEL CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo, 1000011, Japan ~72: EISUKE SUMIDA;HIDEYUKI KIMURA;YOICHIRO MATSUI~ 33:JP ~31:2023-051515 ~32:28/03/2023

2025/06970 ~ Complete ~54:BONE-DIRECTED THERAPEUTICS FOR THE TREATMENT OF CANCER ~71:THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, 412 Low Memorial Library, 535 West 116th Street, United States of America;WILLIAM MARSH RICE UNIVERSITY, 6100 Main Street, United States of America ~72: BERGER, Julian;XIAO, Han~ 33:US ~31:63/487,151 ~32:27/02/2023;33:US ~31:63/507,584 ~32:12/06/2023

2025/06973 ~ Complete ~54:MEANS AND METHODS FOR MODIFYING FUMONISINS ~71:DSM IP Assets B.V., Wilhelminasingel 39, MAASTRICHT 6221 BE , THE NETHERLANDS, Netherlands ~72: BEDNAR, David;DAMBORSKY, Jiri;KERN, Corinna;LASKOVA, Veronika;MOLL, Wulf-Dieter;STEPANKOVA, Veronika;THAMHESL, Michaela;VOGTENTANZ, Gudrun~ 33:EP ~31:23158934.2 ~32:28/02/2023

2025/06955 ~ Complete ~54:COMPOUND CONTAINING TRIFLUOROMETHYLSULFONYL ~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., No.369 Yuzhou South Rd., Lianyungang, People's Republic of China ~72: FENG, Weiwei;LIU, Fei;WANG, Bin;XU, Hongjiang;YAO, Yiyan~ 33:CN ~31:202310134195.8 ~32:17/02/2023;33:CN ~31:202410136766.6 ~32:31/01/2024

2025/06957 ~ Complete ~54:COMBINATION THERAPY OF INTERLEUKIN-2 (IL-2) ANALOG OR CONJUGATE THEREOF AND IMMUNE CHECKPOINT INHIBITOR FOR PREVENTING OR TREATING CANCER ~71:HANMI PHARM. CO., LTD., 214, MUHA-RO, PALTAN-MYEON, HWASEONG-SI, GYEONGGI-DO 18536, REPUBLIC OF KOREA, Republic of Korea ~72: CHOI, Jae Hyuk;HEO, Yong Ho;JEONG, Seong Ju;KIM, Jin Young;LEE, A Ram;LEE, Jong Soo;PARK, Da Hyeon;PARK, Jun Sub~ 33:KR ~31:10-2023-0029834 ~32:07/03/2023

2025/06958 ~ Complete ~54:COMPOSITION FOR TREATING DIABETIC RETINOPATHY, COMPRISING PEPTIDE ~71:EYEBIOKOREA, INC., 81 JINSA-RO 83BEONG-GIL, BUSANJIN-GU BUSAN 47397, REP OF KOREA, Republic of Korea ~72: AHN, Byul Nim;CHO, Yun Seok;LEE, Yu Jin~ 33:KR ~31:10-2023-0025972 ~32:27/02/2023

2025/06967 ~ Complete ~54:TRANSFORMING GROWTH FACTOR-BETA SUPERFAMILY-IMPRINTED NATURAL KILLER CELLS FOR CANCER IMMUNOTHERAPY ~71:RESEARCH INSTITUTE AT NATIONWIDE CHILDREN'S HOSPITAL, 700 Children's Drive, W-148, Columbus, Ohio, 43205, United States of America ~72: DEAN ANTHONY LEE;MARCELO DE SOUZA FERNANDES PEREIRA~ 33:US ~31:63/449,419 ~32:02/03/2023

2025/06969 ~ Complete ~54:CHANNEL INDUCTION FURNACE ~71:FOSECO INTERNATIONAL LIMITED, 165 Fleet Street, London, EC4A 2AE, United Kingdom ~72: DAVID C SMITH;KEVIN KUCMAN~ 33:US ~31:63/451,967 ~32:14/03/2023

2025/06972 ~ Complete ~54:MEANS AND METHODS FOR MODULATING BEHAVIOR ~71:DSM IP Assets B.V., Wilhelminasingel 39, MAASTRICHT 6221 BE , THE NETHERLANDS, Netherlands ~72: AMAYA, Elkin;CANET-MARTINEZ, Estel;GEREMIA, John Michael;JOSS, Daniel Beat;PEREZ CALVO, Estefania;REN, Wen;SCHMEISSER, Jerome;SCHYNS, Ghislain;SESTER, Clement~ 33:EP ~31:23158106.7 ~32:23/02/2023;33:IB ~31:2023/077828 ~32:23/02/2023;33:US ~31:63/447,728 ~32:23/02/2023

2025/06976 ~ Complete ~54:MACROCYCLIC ALPHA4BETA7 INTEGRIN INHIBITORS ~71:C4X Discovery Limited, Broadhurst House, 56 Oxford Street, MANCHESTER M1 6EU, UNITED KINGDOM, United Kingdom ~72: BEAUMONT, Michael;BLANEY, Paul Matthew;HYND, George;KERN, Oliver Thomas~ 33:GB ~31:2302445.8 ~32:21/02/2023;33:GB ~31:2400765.0 ~32:19/01/2024

2025/06978 ~ Complete ~54:STABILIZED TRIMERIC RSV FUSION PROTEINS WITHOUT A HETEROLOGOUS TRIMERZATION DOMAIN ~71:MSD International Business GmbH, Tribschenstrasse, 60, LUCERNE 6005,

SWITZERLAND, Switzerland ~72: BAKKERS, Mark Johannes Gerardus;JURASZEK, Jaroslaw;KOORNNEEF, Annemart;LANGEDIJK, Johannes Petrus Maria~ 33:EP ~31:23157769.3 ~32:21/02/2023

2025/06936 ~ Provisional ~54:BREWING DEVICE ~71:HUGO, George Alexis, 8 Carmen Villas, Bach Close, Sonstraal Heights, South Africa ~72: HUGO, George Alexis~

2025/06950 ~ Complete ~54:SYSTEM FOR CONTROLLING WINDOW OR DOOR LEAF POSITION ~71:LIMITED LIABILITY COMPANY ELAIRE, VN.TER.G. MUNITSYPALNYI OKRUG KRYUKOVO, G ZELENOGRAD, K. 1651, POMESHCH. 1/1, MOSCOW, 124365, Russian Federation ~72: KRAVCHENKO Artem Aleksandrovich;MOSALOVA Tatiana Nikolaevna~ 33:RU ~31:2025119658 ~32:17/07/2025

2025/06959 ~ Complete ~54:ATTACKER IDENTIFICATION DURING SMALL DATA TRANSMISSION ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KOSKINEN, Jussi-Pekka;TURTINEN, Samuli, Heikki;WU, Chunli~

2025/06971 ~ Complete ~54:PROCESS AND PLANT FOR RECYCLING TEXTILES ~71:RE UP Geri Dönüsüm Sanayi ve Ticaret A.Ş, Ibrahimli Mahallesi, Sanko Sokak Sanko Holding Yönetim Binasi A Blok, No: 12a, Turkey ~72: Agamirze HAMITBEYLI;Fatih KONUKOGLU;Gökhan KAPLAN;Gözde ÖKTEM;Hazel UZ;Hüseyin ÇINAR;Kenan LOYAN;Sabrettin AKBULUT;Salih DOGANAY;Seref AGZIKARA;Yavuz DEDE~ 33:EP ~31:23156251.3 ~32:13/02/2023

2025/06979 ~ Complete ~54:PREPARATION METHOD FOR AND USE OF DIHYDROTHIENOPYRIMIDINE DERIVATIVE ~71:INNOVSTONE THERAPEUTICS LIMITED, 500 Qingdai Road, Pudong New Area, People's Republic of China ~72: CHEN, Jian;KOU, Hongyan;LEI, Xiang;LI, Wei;LU, Kai;MU, Yongzhao;SONG, Yunlong;WANG, Disha;WANG, Feng;WANG, Pengpeng;XIE, Xingxing;XU, Dengyun;YU, Ning;ZHANG, Kun~ 33:CN ~31:202310183376.X ~32:28/02/2023;33:CN ~31:202311082792.7 ~32:25/08/2023

2025/06989 ~ Complete ~54:HEATING SYSTEMS AND METHODS ~71:BIACO LIMITED, Post Office Vaults, 4 Market Place, United Kingdom ~72: ATKINS, Andrew;COLES, Raymond;DYE, Bob;KEY, Christopher;MALIZIA, Barry;WRIGHT, Robert~ 33:GB ~31:2102818.8 ~32:26/02/2021;33:ZA ~31:2023/05969 ~32:05/06/2023

2025/06954 ~ Complete ~54:SYSTEM FOR CONTROLLING SLIDING WINDOW OR DOOR LEAF POSITION ~71:LIMITED LIABILITY COMPANY ELAIRE, VN.TER.G. MUNITSYPALNYI OKRUG KRYUKOVO, G ZELENOGRAD, K. 1651, POMESHCH. 1/1, MOSCOW, 124365, Russian Federation ~72: KRAVCHENKO Artem Aleksandrovich;MOSALOVA Tatiana Nikolaevna~ 33:RU ~31:2025119666 ~32:17/07/2025

2025/06980 ~ Complete ~54:COMPOSITIONS AND METHODS FOR ADMINISTERING PALTUSOTINE TO PATIENTS WITH HEPATIC IMPAIRMENT ~71:CRINETICS PHARMACEUTICALS, INC., 6055 Lusk Blvd., United States of America ~72: GOULET, Lance;HUMPHREYS, William;LUO, Sha;MADAN, Ajay~ 33:US ~31:63/455,193 ~32:28/03/2023

2025/06932 ~ Provisional ~54:PHASE-CHANGE MATERIAL THERMAL BATTERY WITH INTEGRATED POWER AND WATER HARVESTING FOR RESILIENT ENERGY STORAGE ~71:BTB IP (Pty) Ltd, 37 Loddon Road Mulbarton, South Africa ~72: BTB IP (Pty) Ltd~

. - APPLIED ON 2025/08/21 -

2025/06986 ~ Provisional ~54:A COUPLING DEVICE ~71:HEUNIS, Anton, 16 MARAIS STREET, BAILEY'S MUCKLENEUK, PRETORIA, 0181, SOUTH AFRICA, South Africa ~72: HEUNIS, Anton~

2025/06992 ~ Complete ~54:LOW-RESIDUE SOFTENED SOD BETEL NUT AND PREPARATION METHOD THEREOF ~71:Shenliang Cheeyoung Time (Hainan) Biotechnology Co., Ltd., Room A29-260, 5th Floor, Building

A, Entrepreneur Incubation Center, No. 266 Nanhai Avenue, National High-tech Industrial Development Zone, Haikou City, Hainan Province, 570311, People's Republic of China ~72: GAO, Jianjun;WANG, Wenyou;ZHAN, Yonggong~

2025/06995 ~ Complete ~54:HABITAT DYNAMIC MONITORING METHOD BASED ON GEE ~71:GUIZHOU EDUCATION UNIVERSITY, 115 Gaoxin Road, Wudang District, Guiyang City, Guizhou Province, 550018, People's Republic of China ~72: DU Hairong;LONG Zexu;SUN Xue~

2025/07006 ~ Complete ~54:NANOBUBBLE GENERATOR ~71:NANOBUBBLE AGRITECH LIMITED, Flat 1, 110 Wairau Road, New Zealand ~72: OVTCHARENKO, Daneel;POWER, Leon~ 33:NZ ~31:795815 ~32:27/01/2023

2025/07013 ~ Complete ~54:GENETICALLY ALTERED NFR5 RECEPTOR KINASES ~71:AARHUS UNIVERSITET, Nordre Ringgade 1, 8000, Aarhus, Denmark ~72: BINE WISSENDORF SIMONSEN;CAMILLA GOTTLIEB ANDERSEN;CHRISTINA KRÖNAUER;DAMIANO LIRONI;ELENA SIMONA RADUTOIU;JENS STOUGAARD JENSEN;KASPER RØJKJÆR ANDERSEN;KIRA DOROTHEA GYSEL;MAGDALINI TSITSIKLI;MARIA MEISNER LARSEN;MARIE VOGEL KOLTE;SIMON BOJE HANSEN;THI BICH LUU~ 33:US ~31:63/490,195 ~32:14/03/2023

2025/07015 ~ Complete ~54:DOSAGE FORMS OF MIRDAMETINIB ~71:SPRINGWORKS THERAPEUTICS, INC., 100 Washington Boulevard, Stamford, Connecticut, 06902, United States of America ~72: ABRAHAM J LANGSETH;JIPING LIU;KRISTIN PATTERSON;MARK HATCHER;PIERO L RUGGIERO;UCHENNA H ILOEJE~ 33:US ~31:63/490,626 ~32:16/03/2023

2025/07012 ~ Complete ~54:PENCIL, SHAFT AND PROCESS FOR PRODUCTION THEREOF ~71:STAEDTLER SE, Moosäckerstr. 3, 90427, Nürnberg, Germany ~72: ANDREAS THIES;JOHANNES HERBOLSHEIMER;MARTIN JAKOB~ 33:DE ~31:10 2023 111 014.4 ~32:28/04/2023

2025/06985 ~ Provisional ~54:A LOADING ARRANGEMENT ~71:FOURIE, Johannes, Jacobus, 66 BERRYHEAD LANE, CORNWALL HILL, 0178, SOUTH AFRICA, South Africa ~72: FOURIE, Johannes, Jacobus~

2025/07005 ~ Complete ~54:HIGH-EFFICIENCY YARN GUIDING FRAME AND YARN GUIDING METHOD FOR PULTRUSION PROCESS ~71:SINOMA SCIENCE & TECHNOLOGY CO., LTD, No.99, Tongtian Road, Jiangning Science Park, Nanjing, 211112, People's Republic of China ~72: Jianjun GUO;Jiayu YAN;Jie YANG;Kaikai YANG;Shuo WANG;Yunji ZOU~ 33:CN ~31:202311870710.5 ~32:29/12/2023

2025/06984 ~ Provisional ~54:MODULAR RETRACTABLE PROTECTIVE SHIELD SYSTEM ~71:Chrystal Christine Kerspey, 67 Amfibool, South Africa ~72: Chrystal Christine Kerspey~

2025/06988 ~ Provisional ~54:SYSTEM AND METHOD FOR WHISTLEBLOWER-DRIVEN CORRUPTION AND FRAUD RECOVERY WITH INCENTIVE DISTRIBUTION ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/06994 ~ Complete ~54:SOD-SOFTENED BETEL NUT FOR REDUCING DAMAGE TO ORAL CAVITY AND PROCESSING METHOD THEREOF ~71:Shenliang Cheeyoung Time (Hainan) Biotechnology Co., Ltd., Room A29-260, 5th Floor, Building A, Entrepreneur Incubation Center, No. 266 Nanhai Avenue, National High-tech Industrial Development Zone, Haikou City, Hainan Province, 570311, People's Republic of China ~72: GAO, Jianjun;WANG, Wenyou;ZHAN, Yonggong~

2025/06999 ~ Complete ~54:SYSTEM AND METHOD FOR FORMING WOVEN DECORATIVE PANELS WITHIN FRAMED ASSEMBLIES ~71:TUUCI WORLDWIDE, LLC, 1000 S.E. 8th Street, Hialeah, Florida, 33010, United States of America ~72: DOUGAN H CLARKE~ 33:US ~31:19/177,225 ~32:11/04/2025

2025/07014 ~ Complete ~54:GENETICALLY ALTERED NFR1 RECEPTOR KINASES ~71:AARHUS UNIVERSITET, Nordre Ringgade 1, 8000, Aarhus, Denmark ~72: BINE WISSENDORF SIMONSEN;CAMILLA GOTTLIEB ANDERSEN;CHRISTINA KRÖNAUER;DAMIANO LIRONI;ELENA SIMONA RADUTOIU;JENS STOUGAARD JENSEN;KASPER RØJKJÆR ANDERSEN;KIRA DOROTHEA GYSEL;MAGDALINI TSITSIKLI;MARIA MEISNER LARSEN;MARIE VOGEL KOLTE;SIMON BOJE HANSEN;THI BICH LUU~ 33:US ~31:63/490,219 ~32:14/03/2023

2025/06996 ~ Complete ~54:GROUT ACCESSORY FOR GROUT BOTTLES ~71:Dujin Zheng, Group 5, Liangpo Village, Liangyuan Township, Leiyang City, Hengyang City, Hunan Province, People's Republic of China ~72: Dujin Zheng~ 33:CN ~31:2024225217740 ~32:18/10/2024

2025/07002 ~ Complete ~54:PHYSICAL FITNESS TRAINING DEVICE FOR UNIVERSITY PHYSICAL EDUCATION TEACHING ~71:XINYU UNIVERSITY, NO. 2666 YANGGUANG AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: BAI, Yunfan;HE, Jiqiao;OU, Jun;XIE, Yi~

2025/07011 ~ Complete ~54:PURIFICATION OF ELECTROLYTIC OXYGEN ~71:ARKEMA FRANCE, 51 Esplanade du Général de Gaulle, La Défense, 92800, Puteaux, France ~72: CÉCILE LUTZ;JEAN-ROBERT LASCOUMETTES;UGO RAVON~ 33:FR ~31:FR2301831 ~32:28/02/2023

2025/06990 ~ Complete ~54:EFFICIENT AND STANDARDIZED SERUM-FREE IN VITRO MATURATION MEDIUM FOR BOVINE OOCYTE AND APPLICATION THEREOF ~71:INSTITUTE OF ANIMAL SCIENCE AND VETERINARY MEDICINE, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, 23788 Gong Ye Bei Road, Jinan, People's Republic of China;SHANDONG OX LIVESTOCK BREEDING CO., LTD., 22151 Gong Ye Bei Road, Jinan, People's Republic of China ~72: GAO, Yundong;HAN, Yusong;LIU, Weijia;MA, Qingtao;WANG, Lingling;XIAO, Yao;ZHANG, Yan~ 33:CN ~31:2024111603275 ~32:22/08/2024

2025/06998 ~ Complete ~54:SAND ECOLOGICAL RESTORATION AND VEGETATION RECONSTRUCTION METHOD FOR SAND FIXATION, WATER RETENTION, AND SEEPAGE PREVENTION ~71:INNER MONGOLIA ACADEMY OF AGRICULTURE & ANIMAL HUSBANDRY SCIENCES, NO. 22, ZHAOJUN ROAD, YUQUAN DISTRICT, HOHHOT CITY, People's Republic of China ~72: CHANG, Hong;CHEN, Yang;HAO, Jie;HASIBATEER;HUO, Zihua;LIAO, Guangji;LIU, Shanshan;LIU, Sibo;LIU, Xinchao;MENG, Weijun;SHAN, Jianguo;SHI, Lei;WANG, Haimei;WANG, Xinyou;WEN, Chao;XIANG, Min;XU, Jiayi;YAN, Ruirui;YE, Ruhan;YIN, Guomei;ZHANG, Haijun;ZHANG, Lihua;ZHANG, Pujin~

2025/07001 ~ Complete ~54:TUMOR SAMPLING DEVICE CONVENIENT FOR SEPARATING TUMOR ~71:SOUTHWEST MEDICAL UNIVERSITY, NO. 1, SECTION 1, XIANGLIN ROAD, LONGMATAN DISTRICT, People's Republic of China ~72: CHEN, Jingyu;MA, Jun;ZHOU, Yungang~

2025/07008 ~ Complete ~54:METHODS OF ADMINISTERING ANTIBODIES THAT BIND INTERLEUKIN 13 ~71:Apogee Therapeutics, Inc., 221 Crescent Street, Building 17, Suite 102B, WALTHAM 02453, MA, USA, United States of America ~72: DAMBKOWSKI, Carl;HENDERSON, Michael~ 33:US ~31:63/462,832 ~32:28/04/2023;33:US ~31:63/469,180 ~32:26/05/2023;33:US ~31:63/471,088 ~32:05/06/2023;33:US ~31:63/521,614 ~32:16/06/2023;33:US ~31:63/541,581 ~32:29/09/2023;33:US ~31:63/612,871 ~32:20/12/2023;33:US ~31:63/621,479 ~32:16/01/2024;33:US ~31:63/561,097 ~32:04/03/2024

2025/07010 ~ Complete ~54:PURIFICATION OF ELECTROLYTIC HYDROGEN ~71:ARKEMA FRANCE, 51 Esplanade du Général de Gaulle, La Défense, 92800, Puteaux, France ~72: CÉCILE LUTZ;JEAN-ROBERT LASCOUMETTES;UGO RAVON~ 33:FR ~31:FR2301830 ~32:28/02/2023

2025/06987 ~ Provisional ~54:SMART TROLLEY/CART SYSTEM WITH ADVANCED INVENTORY TRACKING ~71:Sicelo Lawrence Mabasa, 14 Goosen Street, The Orchards, South Africa ~72: Sicelo Lawrence Mabasa~

2025/06991 ~ Complete ~54:RIFAMYCIN ANALOGS AND ANTIBODY-DRUG CONJUGATES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CHOI, Seungyong Sean;NITTOLI, Thomas;SAHA, Mrinmoy~ 33:US ~31:62/783,506 ~32:21/12/2018;33:US ~31:62/844,860 ~32:08/05/2019

2025/06997 ~ Complete ~54:METHOD FOR EFFICIENT RELEASE OF INTRACELLULAR BRUCELLA NUCLEIC ACIDS AND APPLICATION THEREOF ~71:Inner Mongolia Minzu University, 536 West Huolinhe Street, Horqin District, Tongliao City, Inner Mongolia Autonomous Region, 028000, People's Republic of China ~72: BAI Li;GAO Shuonan;WANG Hui;WANG Xingya;WEI Zhimeng;WU Yangtao;XIAO Renfang;YANG Yuanchao;ZHAI Jingbo~

2025/07000 ~ Complete ~54:SPIRAL CONVEYOR SYSTEM WITH DIRECT CAGE ENGAGEMENT ~71:ASHWORTH BROS., INC., 222 Milliken Blvd., Suite 7, Fall River, Massachusetts, 02721, United States of America ~72: RICARDO PIO BARAKAT BISCIONI~ 33:US ~31:18/812,999 ~32:22/08/2024

2025/07004 ~ Complete ~54:ANTI-DLL3 ANTIBODY, AND ANTIBODY-DRUG CONJUGATE AND PHARMACEUTICAL USE THEREOF ~71:JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., No. 7 Kunlunshan Road, Economic and Technological Development Zone, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., No. 279 Wenjing Road, Minhang District, People's Republic of China;SUZHOU SUNCADIA BIOPHARMACEUTICALS CO., LTD., No. 350 Fengli Street, Suzhou Industrial Park, People's Republic of China ~72: HE, Feng;YAO, Qingqing;YE, Xin~ 33:CN ~31:202310172129.X ~32:27/02/2023;33:CN ~31:202311485274.X ~32:09/11/2023

2025/07009 ~ Complete ~54:MELANOCORTIN 2-TYPE RECEPTOR ANTAGONIST ~71:SCOHIA PHARMA, INC., 26-1, Muraoka-Higashi 2-chome, Fujisawa-shi, Kanagawa, 251-8555, Japan ~72: HIDEKI HIROSE;HIDETO FUKUSHI;KOHEI ASANO;KOJI WATANABE;MASAKI OGINO;MINORU IKOMA;NAOYOSHI NOGUCHI;RYOMA HARA;SATOSHI SASAKI;SHIGEMITSU MATSUMOTO;SHIZUO KASAI;TSUYOSHI MAEKAWA~ 33:JP ~31:2023-080580 ~32:16/05/2023

2025/07017 ~ Complete ~54:NUCLEIC ACID VACCINE AGAINST MONKEYPOX VIRUS AND USE THEREOF ~71:INSTITUTE OF MICROBIOLOGY, CHINESE ACADEMY OF SCIENCES, No.3, Yard1, Beichenxi Road, Chaoyang District, People's Republic of China ~72: DU, Pei;GAO, Fu;KONG, Tianxiang;QI, Jianxun;WANG, Han;WANG, Qihui~ 33:CN ~31:202310084275.7 ~32:18/01/2023

2025/06993 ~ Complete ~54:METHOD AND DEVICE FOR LOSSLESS COMPRESSION OF HIGHWAY STRUCTURAL INFORMATION MONITORING DATA ~71:Harbin Institute of Technology, No.92, West Dazhi Street, Nan Gang District, Harbin City, Heilongjiang Province, 150001, People's Republic of China ~72: Abaho G Gershome;DONG, Zejiao;FEI, Yushuai;QI, Zhixin~ 33:CN ~31:2024118519844 ~32:16/12/2024

2025/07003 ~ Complete ~54:AUTOMATED PRODUCTION LINE MONITORING SYSTEM BASED ON ARTIFICIAL INTELLIGENCE ~71:LIAONING INSTITUTE OF SCIENCE AND TECHNOLOGY, NO. 176 XIANGHUAI ROAD, HIGH TECH DEVELOPMENT ZONE, BENXI CITY, People's Republic of China ~72: FENG, Nuan;GUO, Haifeng;MENG, Zhaojun;SHEN, Chao;WANG, Yiyang;ZHANG, Jun;ZHANG, Zhijun;ZHOU, Zhenchao~ 33:CN ~31:2024113798704 ~32:30/09/2024

2025/07007 ~ Complete ~54:INHIBITORS OF DNA POLYMERASE THETA ~71:Breakpoint Therapeutics GmbH, Essener Bogen 7, HAMBURG 22419, GERMANY, Germany ~72: BENTLEY, Jonathan Mark;CORELLA, Andrea Guerrero;FLANAGAN, Stuart Robert;HOLLICK, Jonathan;MALASSIS, Julien Gilbert Jacques;SMITH, Matthew Raymond;YULE, Ian Andrew~ 33:GB ~31:2303582.7 ~32:10/03/2023;33:GB ~31:2308738.0 ~32:12/06/2023;33:GB ~31:2312354.0 ~32:11/08/2023

2025/07016 ~ Complete ~54:METHODS FOR MULTIPLE AP COORDINATED OVERLAPPING TARGET WAKE TIME OPERATION ~71:INTERDIGITAL PATENT HOLDINGS, INC., 200 Bellevue Parkway, Suite 300, Wilmington, Delaware, 19809, United States of America ~72: HANQING LOU;XIAOFEI WANG;ZINAN LIN~ 33:US ~31:63/486,828 ~32:24/02/2023;33:US ~31:63/491,870 ~32:23/03/2023;33:US ~31:63/498,421 ~32:26/04/2023;33:US ~31:63/502,516 ~32:16/05/2023;33:US ~31:63/526,773 ~32:14/07/2023

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

| Application Number | Assignor | Assignee |
|---|---|---|
| 2015/03460 | PHADIA AB | A3P BIOMEDICAL AB |
| 2014/05754 | KINETA FOUR, LLC | KINETA, INC. |
| 2014/05754 | KINETA, INC. | PHILANTHROPOS THERAPEUTICS LLC |
| 2025/02806 | FOURIE, JOHAN JACQUES | STEEL KING TRUST |
| 2022/02044 | BOOST BIOMES, INC. | CMBG FBC-BOOST BIOMES, LLC |
| 2022/02044 | CMBG FBC-BOOST BIOMES, LLC | NIHON NOHYAKU CO., LTD. |
| 2020/04552 | BOOST BIOMES, INC. | CMBG FBC-BOOST BIOMES, LLC |
| 2020/04552 | CMBG FBC-BOOST BIOMES, LLC | NIHON NOHYAKU CO., LTD. |
| 2022/02043 | BOOST BIOMES, INC. | CMBG FBC-BOOST BIOMES, LLC |
| 2022/02043 | CMBG FBC-BOOST BIOMES, LLC | NIHON NOHYAKU CO., LTD. |
| 2021/09804 | VAN DER MERWE, WILLEM JOHANNES JACOBUS | KHAYA ENGINEERING (PTY) LTD |
| 2023/08423 | DICERNA PHARMACEUTICALS, INC. | NOVO NORDISK A/S |
| 2023/10337 | DICERNA PHARMACEUTICALS, INC. | NOVO NORDISK A/S |
| 2011/06358 | MBIO DIAGNOSTICS, INC. | HESKA CORPORATION |
| 2011/06358 | HESKA CORPORATION | ANTECH DIAGNOSTICS., INC. |
| 2011/06358 | ANTECH DIAGNOSTICS., INC. | MARS, INCORPORATED |
| 2015/05308 | K-FEE SYSTEM GMBH | SOCIETE DES PRODUITS NESTLE S.A. |
| 2014/06267 | BAYER NEW ZEALAND LIMITED | ELANCO NEW ZEALAND |
| 2014/09322 | BAYER NEW ZEALAND LIMITED | ELANCO NEW ZEALAND |
| 2019/06788 | BROCK USA, LLC | PLAYCORE ACQUISITION SUB XVI, LLC |
| 2017/00503 | K-FEE SYSTEM GMBH | SOCIETE DES PRODUITS NESTLE S.A. |
| 2014/00592 | K-FEE SYSTEM GMBH | SOCIETE DES PRODUITS NESTLE S.A. |
| 2020/01198 | TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION | KABUSHIKI KAISHA TOSHIBA |
| 2023/07673 | AMRYT RESEARCH LIMITED | AMRYT PHARMACEUTICALS DESIGNATED ACTIVITY COMPANY |
| 2020/02226 | AMRYT RESEARCH LIMITED | AMRYT PHARMACEUTICALS DESIGNATED ACTIVITY COMPANY |
| 2023/07672 | AMRYT RESEARCH LIMITED | AMRYT PHARMACEUTICALS DESIGNATED ACTIVITY COMPANY |
| 201102775 | INTERNATIONAL PAPER COMPANY | GLOBAL HOLDINGS II, INC. |
| 2022/08982 | BIOHAVEN PHARMACEUTICAL HOLDING COMPANY LTD. | PFIZER IRELAND PHARMACEUTICALS UNLIMITED COMPANY |
| 2021/03976 | VARIATION BIOTECHNOLOGIES INC. | BRII BIOSCIENCES LIMITED |
| 2024/03156 | XBRANE BIOPHARMA AB | ALVOTECH HF |
| 2025/01260 | THE AFFILIATED HOSPITAL and | CHANGCHUN UNIVERSITY OF CHINESE |

| Application Number | Assignor | Assignee |
|---|---|---|
| | THE 3RD AFFILIATED HOSPITAL OF CHANGCHUN UNIVERSITY OF CHINESE MEDICINE | MEDICINE |
| 2022/08917 | ZHEJIANG UNIVERSITY OF SCIENCE & TECHNOLOGY | HANGZHOU SEQUEL EDUCATION TECHNOLOGY CO., LTD |
| 2022/08918 | ZHEJIANG UNIVERSITY OF SCIENCE & TECHNOLOGY | HANGZHOU SEQUEL EDUCATION TECHNOLOGY CO., LTD |
| 2018/03697 | VAN BILJOEN, MARK | VENTRITE BUSINESS TRUST |
| 2024/01345 | MEDSHINE DISCOVERY INC. | TIANJIN CONJUSTAR BIOLOGICS CO., LTD. |
| 2018/08433 | IPCO 2012 LIMITED | VOCALINK LIMITED |
| 2018/08434 | IPCO 2012 LIMITED | VOCALINK LIMITED |
| 2022/11164 | MARITIME IOT SOLUTIONS BV | MSC MEDITERRANEAN SHIPPING COMPANY SA |
| 2023/03318 | VOOGT, JOHN RICHARD | TURN RITE ENGINEERING (PTY) LTD |
| 2020/04702 | PHARMALEADS | KOS THERAPEUTICS, INC. |
| 2010/08029 | PHARMALEADS | KOS THERAPEUTICS, INC. |
| 2022/05454 | PHARMALEADS | KOS THERAPEUTICS, INC. |
| 2018/03105 | PHARMALEADS | KOS THERAPEUTICS, INC. |
| 2011/01424 | PHARMALEADS | KOS THERAPEUTICS, INC. |
| 2022/00411 | PHARMALEADS | KOS THERAPEUTICS, INC. |
| 2022/10697 | SANDVIK MINING AND ROCK TECHNOLOGY INDIA PVT LTD | SANDVIK LTD |

## CHANGE OF NAME IN TERMS OF REGULATION 39

| Application Number | In the name of | New name |
|---|---|---|
| 2023/11590 | AZIWELL SA | AZIWELL HOLDING AS |
| 2011/00347 | BEMICRON SA | SCALDIS ST-MARTIN |
| 2024/03731 | BEIJING TENSAM HIGH-TECH WIND POWER TECHNOLOGY CO., LTD. | BEIJING TIANSHAN HI-TECH WIND POWER EQUIPMENT CO., LTD. |
| 2019/06788 | PLAYCORE ACQUISITION SUB XVI, LLC | BROCK USA, LLC |
| 2018/05100 | JOHNSON & JOHNSON GMBH | KENVUE GERMANY GMBH |
| 2018/05099 | JOHNSON & JOHNSON GMBH | KENVUE GERMANY GMBH |
| 2024/06043 | ALETHIA BIOTHERAPEUTICS INC. | ALETHIA BIOTHERAPEUTICS ULC |
| 2023/10862 | ALETHIA BIOTHERAPEUTICS INC. | ALETHIA BIOTHERAPEUTICS ULC |
| 2023/10678 | ALETHIA BIOTHERAPEUTICS INC. | ALETHIA BIOTHERAPEUTICS ULC |
| 2023/10485 | ALETHIA BIOTHERAPEUTICS INC. | ALETHIA BIOTHERAPEUTICS ULC |
| 202004108 | JOHNSON & JOHNSON CONSUMER INC. | KENVUE BRANDS LLC |
| 2024/05982 | MCT CARDS & TECHNOLOGY PRIVATE LIMITED | MANIPAL PAYMENT AND IDENTITY SOLUTIONS LIMITED |
| 2023/08159 | METSO OUTOTEC SWEDEN AB | METSO SWEDEN AB |
| 2023/08157 | METSO OUTOTEC SWEDEN AB | METSO SWEDEN AB |

| Application Number | In the name of | New name |
|---|---|---|
| 2023/06441 | METSO OUTOTEC SWEDEN AB | METSO SWEDEN AB |
| 2019/08501 | METSO OUTOTEC SWEDEN AB | METSO SWEDEN AB |
| 2019/08500 | METSO OUTOTEC SWEDEN AB | METSO SWEDEN AB |
| 2019/03879 | METSO OUTOTEC SWEDEN AB | METSO SWEDEN AB |
| 2018/03878 | METSO OUTOTEC SWEDEN AB | METSO SWEDEN AB |
| 2013/08656 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2013/04211 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2013/03097 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2013/02377 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2012/06148 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2012/04417 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2012/03586 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2012/02810 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2012/00612 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2012/00283 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2012/00149 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2011/06232 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2011/06152 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2011/05342 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2011/02798 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2011/02773 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2011/02772 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2010/07159 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2009/05470 | METSO OUTOTEC FINLAND OY | METSO FINLAND OY |
| 2023/02539 | RESOLVE DIAGNOSTICS PVT. LTD. | RESOLVE BIOTECH PRIVATE LIMITED |

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

No records available

## PATENT APPLICATIONS ABANDONED OR WITHDRAWN

| Application Number | Not Open | Date |
|---|---|---|
| 2024/05960 | WITHDRAWN | 04/08/2025 |

## APPLICATION FOR RESTORATION OF A LAPSED PATENT

THE PATENTS ACT, No. 57 OF 1978

APPLICATION FOR THE RESTORATION OF A LAPSED PATENT UNDER SECTION 47 OF THE ACT

Notice is hereby given that **WAGIENIENCE (PTY) LTD** whose address for service is **LEON PIERRE SUSAN, GAUTENG** has applied to the registrar for the restoration of Patent No **2017/07051** entitled **AN INLET VALVE**

**ARRANGEMENT FOR A TOILET CISTERN** dated **13/01/2016**, which lapsed on **13/01/2025** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

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Notice is hereby given that **Huawei Technologies Co., Ltd** whose address for service is **ADAMS & ADAMS, PRETORIA** has applied to the registrar for the restoration of Patent No **2023/01008** entitled **METHOD AND APPARATUS FOR DERIVING AN INTERPOLATION FILTER INDEX FOR A CURRENT BLOCK** dated **20/04/2020**, which lapsed on **20/04/2025** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

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Notice is hereby given that **RONALD ARCHIBALD JONES** whose address for service is **ALCYONE FARM, BRANDWACHT WORCESTER, WESTERN CAPE** has applied to the registrar for the restoration of Patent No **2010/01403** entitled **FOOT STIMULATOR** dated **26/02/2010**, which lapsed on **26/02/2017** owing to the non-payment of the prescribed renewal fee.

Any person may oppose the restoration of the patent by lodging form P19 within two months of the date of this advertisement.

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**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 FOR CORRECTION IN TERMS OF SEVTION 50

**DAEWOONG PHARMACEUTICAL CO., LTD. 35-14, JEYAKGONGDAN 4-GIL, HYANGNAM-EUP, HWASEONG-SI, GYEONGGI-DO, 18623 REPUBLIC OF KOREA.** Request permission to correct or to amend any patent, application for a patent or document lodged in pursuance of such application or in the register of Patent no: **2018/08431** filing date of **13 December 2018.**

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

Any notice of opposition (on form no. 19) must be lodged at the Patent Office within 2 months from the date hereof.

**Registrar of Patents**

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## APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

**Applicant: TELEFONAKTIEBOLAGET L M ERICSSON (PUBL) S 164 83, Stockholm.** Permission to amend the specification of letters patent no: **2009/03044** of **04/05/2009** for **TELECOMMUNICATION SYSTEMS AND ENCRYPTION OF CONTROL MESSAGES IN SUCH SYSTEMS**.

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

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**Applicant: TELEFONAKTIEBOLAGET L M ERICSSON (PUBL) S 164 83, Stockholm.** Permission to amend the specification of letters patent no: **2010/03811** of **27/05/2010** for **METHODS AND DEVICES FOR RANDOM ACCESS POWER CONTROL IN A COMMUNICATIONS NETWORK**.

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

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

**Registrar of Patents**

---

**Applicant: TELEFONAKTIEBOLAGET L M ERICSSON (PUBL) S 164 83, Stockholm.** Permission to amend the specification of letters patent no: **2018/02206** of **04/04/2018** for **BEAM-SCAN TIME INDICATOR**.

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

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

**Registrar of Patents**

---

**Applicant: VITO NV Boeretang 200 2400 Mol., KATHOLIEKE UNIVERSITEIT LEUVEN KU Leuven R&D, Waaistraat 6 - Box 5105 3000 Leuven.** Permission to amend the specification of letters patent no: **2023/09782** of **19/10/2023** for **A PROCESS FOR PRECIPITATING PARTICLES OF PLATINUM GROUP METALS**.

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**

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**Applicant: SMIT, Hendrik, Jacobus 6 HIEBNER CRESCENT, NORTHERN PAARL, PAARL, SOUTH AFRICA.** Permission to amend the specification of letters patent no: **2023/02090** of **20/02/2023** for **METHODS AND COMPOSITIONS FOR THE PRODUCTION OF ACETYL-COA DERIVED PRODUCTS**.

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

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

**Registrar of Patents**

---

**Applicant: SMIT, Hendrik, Jacobus 6 HIEBNER CRESCENT, NORTHERN PAARL, PAARL, SOUTH AFRICA.** Permission to amend the specification of letters patent no: **2023/05109** of **09/05/2023** for **LINER FOR FRESH PRODUCE TRANSPORTATION BINS**.

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

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

**Registrar of Patents**

---

**Applicant: THE BADGE COMPANY (PROPRIETARY) LIMITED 66-68 Industrial Ring Road,Parow Industria, Cape Town, 7493.** Permission to amend the specification of letters patent no: **2007/07295** of **28/08/2007** for **A BADGE**.

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**

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**Applicant: RADY, Max Adel 22 rue Fessart, Apt 124 92100 Boulogne-Billancourt.** Permission to amend the specification of letters patent no: **2020/02525** of **07/05/2020** for **PHYSICAL ITEM MAPPING TO BLOCKCHAIN FRAMEWORK**.

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

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

**Registrar of Patents**

**Applicant: TELEFONAKTIEBOLAGET L M ERICSSON (PUBL) S 164 83, Stockholm.** Permission to amend the specification of letters patent no: **2009/05373** of **29/07/2009** for **USING AN UPLINK GRANT AS TRIGGER OF FIRST OR SECOND TYPE OF CQI REPORT**.

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

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

**Registrar of Patents**

## INSPECTION OF SPECIFICATIONS

A complete specification may, after acceptance is advertised, be inspected during office hours at the Patent Office, Pretoria, at a charge of **R4, 00.** Please note, that in terms of section 43 (3) if the acceptance of an application which claims priority in terms of section 31 (1) (c) is not published in terms of section 42 within 18 months from the earliest priority claimed from the relevant application in a convention country, it shall be opened to public inspection after the expiration of 18 months from the earliest priority so claimed.

## COPIES OF DOCUMENTS

The Patent Office, Private Bag X400, Pretoria, supplies copies of all patent and trade mark documents at the following rate:

Photocopies: **R1, 00 per page**

### COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF

Complete specifications in respect of the under mentioned applications for letters Patent have been accepted by the Registrar of Patents.

THE PATENTS ACT, 1978 (ACT NO. 57 OF 1978)

In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(43)** Date of acceptance. **(51)** Class. **(71)** Name of applicant(s). **(72)** Name of all inventors. **(33)** Country. **(31)** Number and **(32)** Date of convention application. **(54)** Title of invention. **(00)** Number of sheets.

**Registrar of Patents**

21: 2014/02526. 22: 2014/04/07. 43: 2025/06/09
51: A01N
71: Novozymes BioAg A/S
72: SMITH, R. Stewart, HABIB, Ahsan, KOSANKE, John
33: US 31: 61/532,234 32: 2011-09-08
**54: SEED TREATMENT METHODS AND COMPOSITIONS**
00: -
Disclosed are methods of enhancing plant growth, comprising treating seed at least one month prior to planting with an effective amount of a plant signal molecule, wherein upon harvesting the plant exhibits at least one of increased plant yield measured in terms of bushels/acre, increased root number, increased root length, increased root mass, increased root volume and increased leaf area, compared to plants harvested from untreated seed, or compared to plants harvested from seed treated with the signal molecule just prior to or within a week or less of planting.

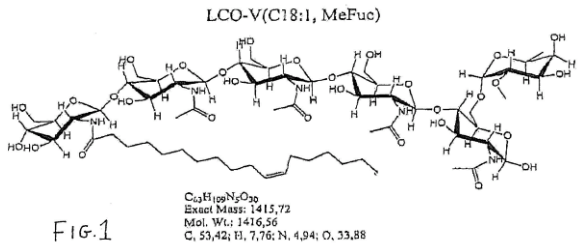
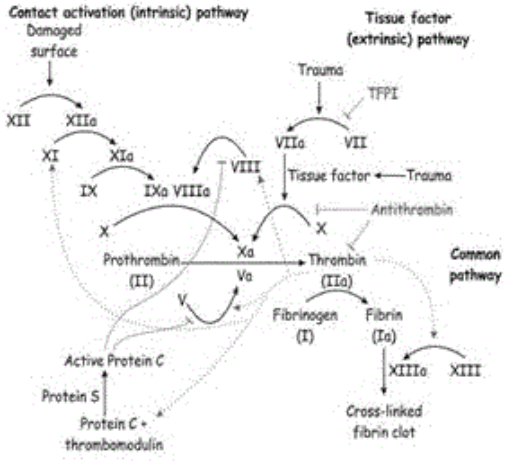


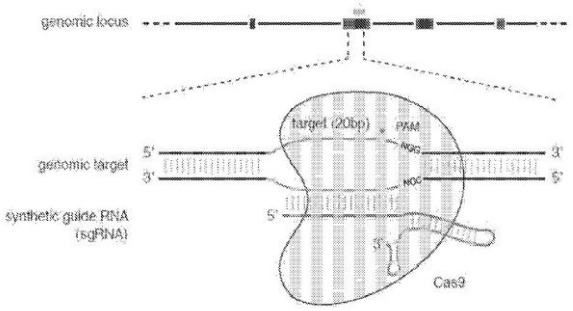
FIG. 1

21: 2014/07293. 22: 2014/10/08. 43: 2025/06/02
51: C07H; C12N
71: GENZYME CORPORATION
72: SEHGAL, ALFICA, TOUDJARSKA, IVANKA, FOSTER, DONALD, MILSTEIN, STUART, BETTENCOURT, BRIAN, MAIER, MARTIN, CHARISSE, KLAUS, KUCHIMANCHI, SATYANARAYANA, RAJEEV, KALLANTHOTTATHIL G, MANOHARAN, MUTHIAH, AKINC, AKIN
33: US 31: 13/837,129 32: 2013-03-15
33: US 31: 61/638,952 32: 2012-04-26
33: US 31: 61/669,249 32: 2012-07-09
33: US 31: 61/734,573 32: 2012-12-07
**54: SERPINC1 IRNA COMPOSITIONS AND METHODS OF USE THEREOF**
00: -
The invention relates to iRNA, e.g., double- stranded ribonucleic acid (dsRNA), compositions targeting the Serpinc1 gene, and methods of using such iRNA, e.g., dsRNA, compositions to inhibit expression of Serpinc1 and methods of treating subjects having a bleeding disorder, such as a hemophilia.




21: 2015/08961. 22: 2015/12/08. 43: 2025/08/06
51: C12N; C40B
71: MASSACHUSETTS INSTITUTE OF TECHNOLOGY, THE BROAD INSTITUTE, INC, PRESIDENT AND FELLOWS OF HAVARD COLLEGE
72: ZHANG, FENG, CONG, LE, RAN, FEI, HEIDENREICH, MATTHIAS, SWIECH, LUKASZ
33: US 31: 61/836,123 32: 2013-06-17
33: US 31: 61/847,537 32: 2013-07-17
33: US 31: 61/862,355 32: 2013-08-05
33: US 31: 61/871,301 32: 2013-08-28
33: US 31: PCT/US2013/074667 32: 2013-12-12
33: US 31: 61/915,225 32: 2013-12-12
33: US 31: 61/979,879 32: 2014-04-15
**54: DELIVERY, USE AND THERAPEUTIC APPLICATIONS OF THE CRISPR-CAS SYSTEMS AND COMPOSITIONS FOR TARGETING DISORDERS AND DISEASES USING VIRAL COMPONENTS**
00: -
The invention provides for delivery, engineering and optimization of systems, methods, and compositions for manipulation of sequences and/or activities of target sequences. Provided are delivery systems and tissues or organ which are targeted as sites for delivery. Also provided are vectors and vector systems some of which encode one or more components of a CRISPR complex, as well as methods for the design and use of such vectors. Also provided are methods of directing CRISPR complex formation in eukaryotic cells to ensure

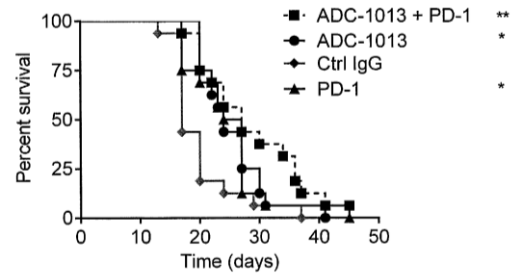
enhanced specificity for target recognition and avoidance of toxicity and to edit or modify a target site in a genomic locus of interest to alter or improve the status of a disease or a condition.

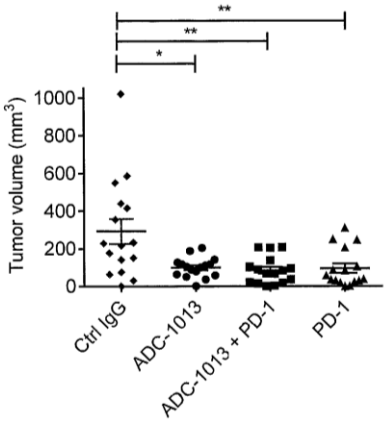



21: 2016/03789. 22: 2016/06/03. 43: 2025/08/04
51: G06Q
71: SMS Switching (Pty) Ltd
72: VAN GOOL, Patrick Mark, VAN GOOL, Andrew Gerard
**54: METHOD FOR MANAGING USE OF A PARKING AREA**
00: -
Disclosed is a method for managing use of a parking area by a user with an associated vehicle, method being implemented by means of a parking area system comprising: a user's mobile communication device; a remote network accessible processor; and a parking area with at least one access control point and at least one exit control point.

21: 2016/05017. 22: 2016/07/19. 43: 2025/07/21
51: A61K; A61P
71: BOEHRINGER INGELHEIM VETMEDICA GMBH
72: ENGEL, Odilo Randolf, MICHEL, Annalena, DE VRIES, Frerich
33: EP 31: PCT/EP2014/055843 32: 2014-03-24
33: EP 31: PCT/EP2014/059525 32: 2014-05-09
33: EP 31: 14180415.3 32: 2014-08-08
**54: IMEPITOIN FOR USE IN TREATING EPILEPTIC DISORDERS IN A FELINE**
00: -
The present invention relates to the use of 1-(4-chlorophenyl)-4-(4-morpholinyl)-2,5-dihydro-1H-imidazol-2- one or a physiologically acceptable salt thereof in a method for treatment and/or prevention of one or more epileptic disorders in a feline animal, preferably a cat.

21: 2017/01126. 22: 2017/02/15. 43: 2025/08/05
51: A61K; C07K; A61P
71: ALLIGATOR BIOSCIENCE AB
72: ELLMARK, Peter, NORLEN, Per, VEITONMÄKI, Niina
33: GB 31: 1414270.7 32: 2014-08-12
33: GB 31: 1422614.6 32: 2014-12-18
33: GB 31: 1507541.9 32: 2015-05-01
**54: COMBINATION THERAPIES WITH ANTI CD40 ANTIBODIES**
00: -
The present invention relates to combination therapies for treating a solid tumour in a subject. The combination therapies comprise (a) an antibody, or antigen-binding portion thereof, that specifically binds to CD40, and (b) a further immunotherapeutic agent with efficacy in the treatment of cancer, which agent is not an anti-CD40 antibody or antigen-binding fragment thereof. The invention also relates to a kits and methods of using such therapies.




21: 2017/02877. 22: 2017/04/25. 43: 2025/08/01
51: G01L; G01S
71: TERRENCE KEITH ASHWIN
72: TERRENCE KEITH ASHWIN
33: ZA 31: 2015/08729 32: 2016-05-30
**54: A WEARABLE IMPACT SENSOR**

00: -
A wearable impact sensor configured to record and transmit the occurrence of a predetermined minimum value impact along with location co-ordinates to a remote server, wherein the impact sensor comprises a plurality of power consumption modes including a sleep mode wherein the sensor does not track its location co-ordinates and an active mode which results in location co-ordinate tracking by the sensor.

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21: 2017/06683. 22: 2017/10/04. 43: 2025/06/02
51: G01N; B01L
71: CEPHEID
72: DORITY, DOUGLAS B
33: US 31: 62/142,063 32: 2015-04-02
**54: FLUIDIC BRIDGE DEVICE AND SAMPLE PROCESSING METHODS**
00: -
A fluidic bridge device for transport of a fluid sample between a first sample processing device and a second sample processing device. The fluidic bridge may include one or more fluid channels extending between fluid-tight couplings attachable to transfer ports of the first and second sample processing device. In one aspect the first device is a sample preparation device and the second device is an assay device. The fluidic bridge can include at least two fluid conduits, at least one for transport of the prepared sample, and at least one other to facilitate displacement of air to allow flow of the prepared sample through the other fluid conduit. The fluid channels can include one or more of an amplification chamber, a processing chamber, a gas-permeable vent, a bubble trap, a filter, and an external port. Methods of preparing and transporting a fluid sample between devices are provided herein.

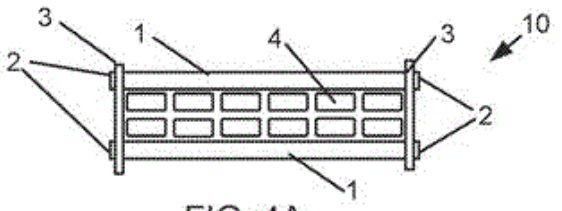

FIG. 4A

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21: 2017/08300. 22: 2017/12/07. 43: 2025/07/31
51: E21F; F16K
71: NICAUD COMPANIES 22 (Pty) Ltd
72: FLANAGAN, Willliam Federick; STEYN, Anthony
33: ZA 31: 2016/08417 32: 2016-12-07
**54: A COMPOSITE NET**
00: -
The invention provides a composite safety net which includes a plurality of net panels, each panel including a plurality of tensile straps, a quadrilateral frame made of the tensile straps, a major grid, within the frame, comprising the tensile straps extending in at least two transverse directions and an elongate interlinking strap, wherein each panel is engaged to the elongate strap along one side of the panel's frame to extend from the elongate strap in the same direction and wherein the panels are spaced from one another along the interlinking strap.

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21: 2018/00022. 22: 2018/01/03. 43: 2025/08/08
51: A61K
71: AURIGENE ONCOLOGY LIMITED
72: SAMAJDAR, Susanta, PODDUTOORI, Ramulu, PANDIT, Chetan, MUKHERJEE, Subhendu, GOSWAMI, Rajeev
33: IN 31: 2803/CHE/2015 32: 2015-06-04
33: IN 31: 6214/CHE/2015 32: 2015-11-18
**54: SUBSTITUTED HETEROCYCLYL DERIVATIVES AS CDK INHIBITORS**
00: -
The present invention provides substituted heterocyclylderivatives of formula (I), which are therapeutically useful, particularly as selective transcriptional CDK inhibitors including CDK7, CDK9, CDK12, CDK13 and CDK18, more particularly transcriptional CDK7 inhibitors. These compounds are useful in the treatment and prevention of diseases and/or disorders associated with selective transcriptional CDKs in a mammal. The present invention also provides preparation of the compounds and pharmaceutical formulations comprising at least one of the substituted heterocyclyl derivatives of formula (I) or a pharmaceutically acceptable salt or a stereoisomer thereof.

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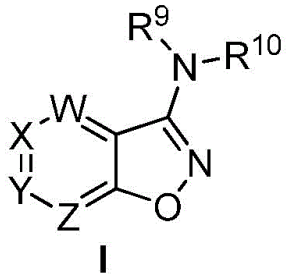
21: 2018/00787. 22: 2018/02/06. 43: 2025/06/10
51: A61K; A61P; C07D
71: Auckland UniServices Limited
72: PALMER, Brian Desmond, CHING, Lai-Ming
33: NZ 31: 711514 32: 2015-08-27
**54: INHIBITORS OF TRYPTOPHAN DIOXYGENASES (IDO1 AND TDO) AND THEIR USE IN THERAPY**
00: -

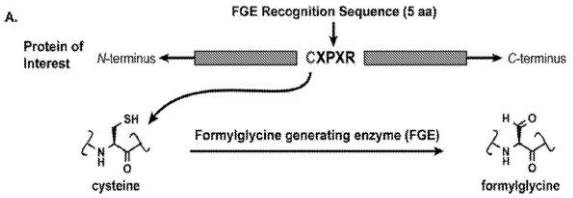
Pharmaceutical compositions comprising 3-aminoisoxazolopyridine compounds of the Formula I having IDO1 and/or TDO inhibitory activity are described, where W is CR1, N or N-oxide; X is CR2, N or N-oxide; Y is CR3, N or N-oxide; Z is CR4, N or N-oxide; and at least one of W, X, Y, and Z is N or N-oxide; and R9 and R10 are as defined. Also described are methods of using such compounds in the treatment of various conditions, such as cancer.



I

21: 2018/03396. 22: 2018/05/22. 43: 2025/05/29
51: A61K; C07K
71: Eli Lilly and Company
72: DEMATTOS, Ronald Bradley, LU, Jirong, TANG, Ying
33: US 31: 62/279,268 32: 2016-01-15
**54: ANTI-N3pGlu AMYLOID BETA PEPTIDE ANTIBODIES AND USES THEREOF**
00: -
Antibodies to human N3pGlu Aß, compositions comprising such N3pGlu Aß antibodies, and methods of using such N3pGlu Aß antibodies for the treatment of a disease characterized by deposition of Aß including clinical or pre-clinical Alzheimers disease, Down's syndrome, and clinical or pre-clinical cerebral amyloid angiopathy.

21: 2018/03476. 22: 2018/05/25. 43: 2025/06/13
51: A61K; C07D; C07K
71: R.P. Scherer Technologies, LLC
72: RABUKA, David, MCFARLAND, Jesse M., DRAKE, Penelope M., BARFIELD, Robyn M.
33: US 31: 62/252,985 32: 2015-11-09
**54: ANTI-CD22 ANTIBODY-MAYTANSINE CONJUGATES AND METHODS OF USE THEREOF**
00: -
The present disclosure provides anti-CD22 antibody-maytansine conjugate structures. The disclosure also encompasses methods of production of such conjugates, as well as methods of using the same.




21: 2018/07206. 22: 2018/10/29. 43: 2025/07/24
51: A23B
71: NATURO INNOVATIONS PTY LTD
72: HASTINGS, Jeffrey John
33: AU 31: 2016901217 32: 2016-04-01
**54: METHOD AND APPARATUS FOR PRODUCING FOOD PRODUCT**
00: -
A method for producing an avocado food product with a reduced instance of pathogens, the method comprising: (a) removing the pip and peel from an avocado leaving the flesh of the avocado; (b) macerating the avocado flesh; (c) exposing the avocado flesh to an atmosphere comprising steam for a predetermined time; wherein the steam is generated at or greater than about atmospheric pressure.

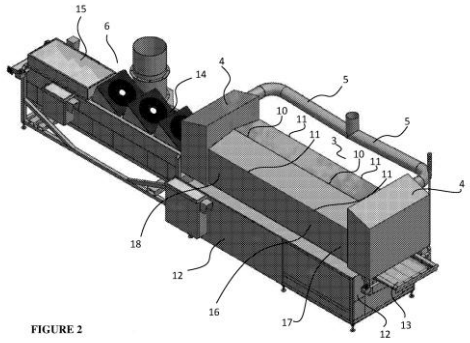
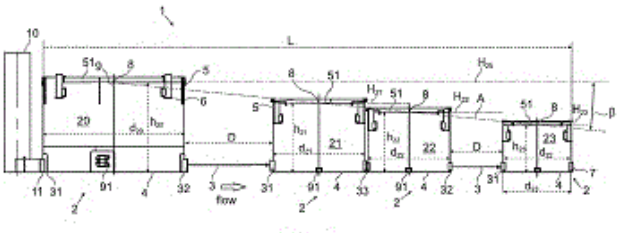


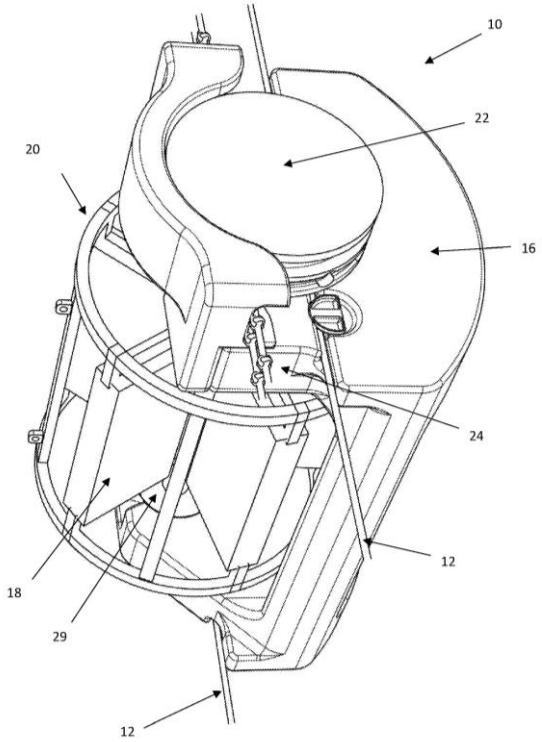
FIGURE 2

21: 2019/00936. 22: 2019/02/13. 43: 2025/06/19
51: B03D
71: METSO OUTOTEC FINLAND OY
72: BOURKE, PETER GERARD, RINNE, ANTTI, COLEMAN, ROB
33: FI 31: PCT/FI2016/050552 32: 2016-08-05
**54: FLOTATION LINE AND A METHOD**
00: -
This disclosure relates to a flotation line for treating mineral ore particles suspended in slurry, comprising at least three flotation units arranged in fluid connection with each other for allowing gravity-driven slurry flow between flotation units, an a feed inlet for supplying slurry into a first flotation unit;

wherein at least three flotation units are configured to be uniplanar, each flotation unit comprises at least one flotation cell; and wherein the launder lip height (H) of each uniplanar flotation unit is lower than the launder lip height (H) of the preceding uniplanar flotation unit in the direction of the slurry flow, so that an angle of sloping (β) between a first uniplanar flotation cell, equipped with a launder lip and being larger than 150 m3, and a last uniplanar flotation cell, equipped with a launder lip and being larger than 40 m3, is formed; and the angle (β) is 1.5 to 10 degrees relative to horizontal. The disclosure further relates to a flotation method.



21: 2019/07919. 22: 2019/11/28. 43: 2025/07/02
51: A01K; B63B
71: BOYLE, Norman
72: BOYLE, Norman
33: AU 31: 2017901617 32: 2017-05-03
**54: OYSTER FARMING APPARATUS, METHODS AND SYSTEMS**
00: -
Disclosed herein is an apparatus for farming oysters and, in particular, intertidal oysters. The apparatus comprises a float, at least one oyster container configured to hold oysters and be carryable on the float, and a driver operable to periodically move each of the at least one oyster container between an underwater position and an above water position.




21: 2020/02019. 22: 2020/05/04. 43: 2025/06/17
51: C07H; C12N
71: GENZYME CORPORATION
72: AKINC, AKIN, SEHGAL, ALFICA, TOUDJARSKA, IVANKA, FOSTER, DONALD, MILSTEIN, STUART, BETTENCOURT, BRIAN, MAIER, MARTIN, CHARISSE, KLAUS, KUCHIMANCHI, SATYANARAYANA, RAJEEV, KALLANTHOTTATHIL G, MANOHARAN, MUTHIAH
33: US 31: 61/734,573 32: 2012-12-07
33: US 31: 61/638,952 32: 2012-04-26
33: US 31: 61/669,249 32: 2012-07-09
33: US 31: 13/837,129 32: 2013-03-15
**54: SERPINC1 IRNA COMPOSITIONS AND METHODS OF USE THEREOF**
00: -
The invention relates to iRNA, e.g., double- stranded ribonucleic acid (dsRNA), compositions targeting the Serpinc1 gene, and methods of using such iRNA, e.g., dsRNA, compositions to inhibit expression of Serpinc1 and methods of treating subjects having a bleeding disorder, such as a hemophilia.

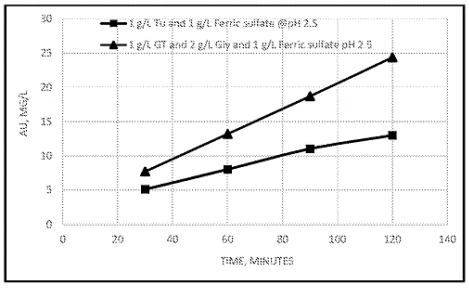
21: 2020/02140. 22: 2020/05/04. 43: 2025/06/18
51: C22B
71: MINING AND PROCESS SOLUTIONS PTY LTD, COVORO MINING SOLUTIONS, LLC

72: ORABY, Elsayed, Abdelrady, EKSTEEN, Jacobus, Johannes
33: AU 31: 2017903921 32: 2017-09-27

**54: PROCESS FOR ACIDIC LEACHING OF PRECIOUS AND CHALCOPHILE METALS**

00: -

A process for recovery of one or more elements, selected from precious metals and chalcophile metals as herein defined, from materials containing precious and/or chalcophile metal/s, said process including: (i) a leaching step comprising contacting the material with an acidic solution containing a lixiviant comprising an aqueous amino acid-thiourea compound formed from an amino acid (as herein defined) and thiourea (as herein defined), in order to form a leachate containing the precious metal and/or chalcophile metal; and (ii) a recovery step comprising recovering the precious metal and/or chalcophile metal from the leachate.

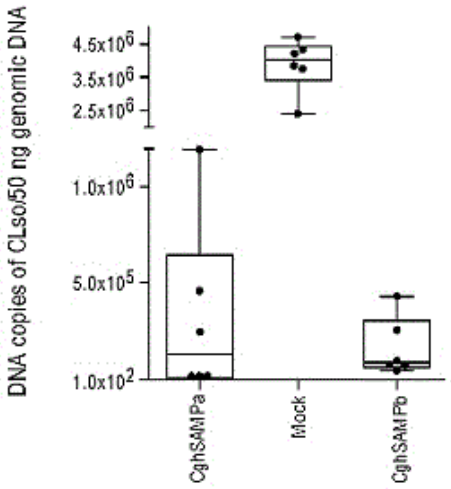



21: 2020/02491. 22: 2020/05/06. 43: 2025/06/17
51: A61K; C07K
71: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
72: JIN, HAILING, HUANG, CHIEN YU
33: US 31: 62/575,993 32: 2017-10-23
33: US 31: 62/677,817 32: 2018-05-30

**54: COMPOSITIONS AND METHODS FOR TREATING LIBERIBACTER DISEASES AND OTHER BACTERIAL DISEASES**

00: -

The disclosure provides stable antimicrobial (e.g., antibacterial or antifungal or both) peptides (SAMPs) that may be used in methods of preventing or treating a bacterial disease (e.g., a Liberibacter disease, such as citrus greening disease (also called Huanglongbing (HLB)) or potato Zebra Chip disease, and other bacterial diseases such as those caused by Agrobacterium tumefaciens (also known as Rhizobium radiobacter) and Pseudomonas syringae) in plants (e.g., citrus plants or potato plants). SAMPs disclosed herein may be heat stable, as well as stable in plant extracts and/or in plant lysates (e.g., citrus lysates).




21: 2020/02729. 22: 2020/05/13. 43: 2025/06/17
51: A47C
71: SEALY TECHNOLOGY, LLC
72: DEMOSS, LARRY K, THOMAS, DARIN T, MANUSZAK, BRIAN M, WALLACE, STEPHEN
33: US 31: 62/579,209 32: 2017-10-31

**54: POCKET COIL SPRING ASSEMBLY INCLUDING FLEXIBLE FOAM**

00: -

A pocket coil spring assembly (10) is provided that includes a coil spring (20) having an upper portion (22) and a lower portion (24) collectively defining an interior cavity of the coil spring. The pocket coil spring assembly further includes a fabric pocket (30) encasing the coil spring with a top area (32) covering the upper portion of the coil spring and a bottom area (34) covering the lower portion of the coil spring. A discrete amount of flexible foam (40) is poured on the top of the fabric pocket such that a top surface (42) of the flexible foam extends above the coil spring. A mattress assembly (200, 300, 400) is further provided that includes the flexible foam dispensed in continuous or discrete amounts between rows of pocket coil springs.

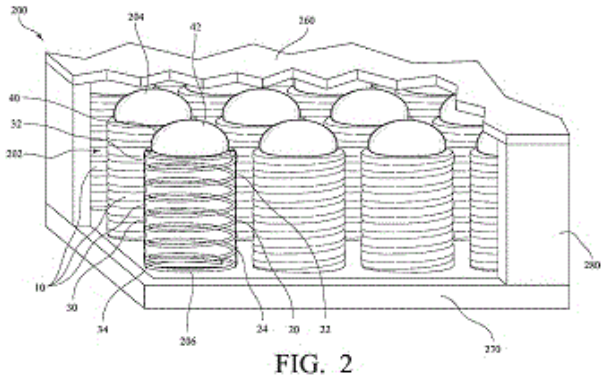


FIG. 2

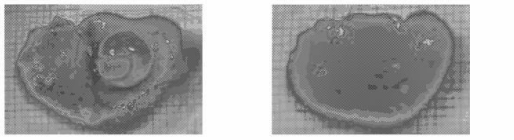
21: 2020/02748. 22: 2020/05/12. 43: 2025/06/13
51: G06F
71: DIAL DIRECT INSURANCE (RF)
72: PRETORIUS, Riaan Jacobus
**54: METHOD OF MANAGING INSURANCE RISK**
00: -
There is disclosed method of managing insurance risk which includes an insurer providing an insured party, directly or indirectly via e service provider, with any one or more tools from the group of tools including, a quantity of data for use in respect of an IoT device or a mobile device on an information exchange network, a quantity of airtime for use in respect of an IoT device or a mobile device on an information exchange network, a quantity of electricity, a mobile device, an IoT device, and a PBS device; and providing the insured party with access, by means of the tools, to a server with the insurer or a third party to manage insurance risks associated with it and to provide the insurer or the third party with risk information.

21: 2020/04136. 22: 2020/06/29. 43: 2025/07/22
51: C07D
71: EIGER GROUP INTERNATIONAL, INC.
72: GLENN, Jeffrey S, PHAM, Edward A
33: US 31: 62/187,061 32: 2015-06-30
**54: USE OF CHLOROQUINE AND CLEMIZOLE COMPOUNDS FOR TREATMENT OF INFLAMMATORY AND CANCEROUS CONDITIONS**
00: -
Disclosed herein are methods for use of R-chloroquine or clemizole or combinations of R-chloroquine and clemizole for the treatment of a subject in need thereof. Uses include methods of treating inflammatory conditions, treating liver cancer or reducing the risk of developing liver cancer in a subject. Uses also include methods of treating non-alcoholic steatohepatitis in a subject.

Inhibition of tumor formation by compound D

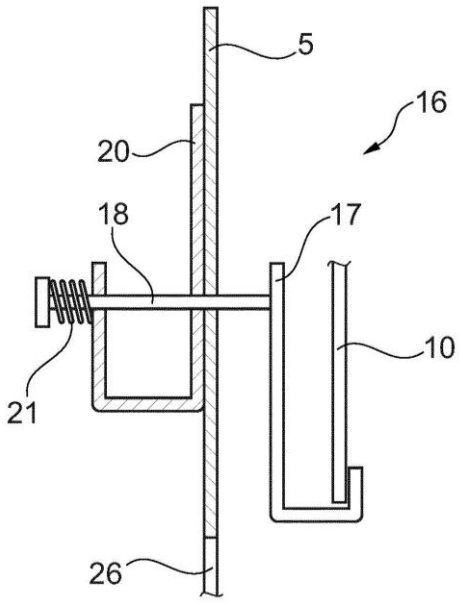
| Group | Mouse ID | Number visible tumor nodules | Maximum diameter of visible tumor nodules (mm) | Mean number visible tumor nodules | Mean maximum diameter of visible tumor nodules (mm) |
|---|---|---|---|---|---|
| Vehicle | 101 | 3 | 14.4 | 3.0 ± 2.0 | 7.3 ± 6.5 |
| | 102 | 5 | 5.4 | | |
| | 111 | 1 | 2.0 | | |
| Compound D | 501 | 0 | 0.0 | 0.3 ± 0.6 | 0.7 ± 1.2 |
| | 505 | 1 | 2.0 | | |
| | 510 | 0 | 0.0 | | |

Figure 8

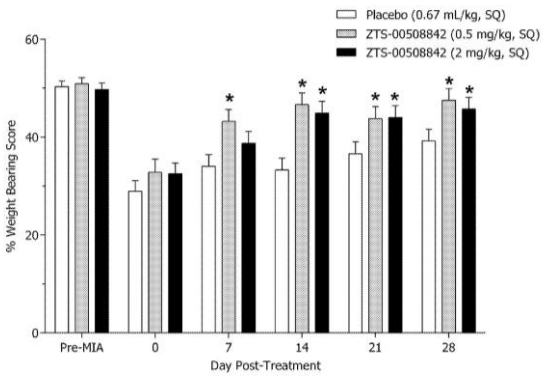


Posterior left lobe—vehicle control Posterior left lobe—compound D treated

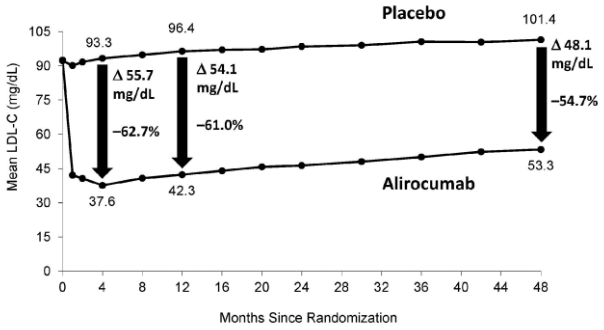
21: 2020/04775. 22: 2020/07/31. 43: 2025/05/27
51: H02B
71: Eaton Intelligent Power Limited
72: LAMMERS, Willem
33: GB 31: 1801656.8 32: 2018-02-01
**54: MAINTENANCE LATCH FOR SWITCHGEAR SHUTTER**
00: -
The invention relates to a switchgear housing for housing an object, such as a circuit breaker, the switchgear housing comprising: - a wall with an access opening for access to for example a high voltage connector; - at least one shutter plate movable parallel to the wall between a closed position, wherein the shutter plate covers the opening and an open position, wherein the shutter plate exposes the opening; - urging means for urging the at least one shutter plate towards the closed position; - an operating mechanism for operating the shutter plate from the closed position to the open position when an object such as a circuit breaker is moved into the housing; and - at least one latch movable in a direction perpendicular to the wall with the access opening and between a latched position and an unlatched position, wherein the path of the latch and the path of the shutter plate intersect, such that the latch, in the latched position, blocks movement of the shutter plate from the open position to the closed position.




21: 2020/05189. 22: 2020/08/20. 43: 2025/05/27
51: A61K; A61P; C07K
71: Zoetis Services LLC
72: STEINIGER, Sebastian C. J., DUNKLE, William, RUGG, Catherine, DUNHAM, Steven A.
33: US 31: 62/641,538 32: 2018-03-12
**54: ANTI-NGF ANTIBODIES AND METHODS THEREOF**
00: -
The present disclosure encompasses novel anti-NGF antibodies, antigen binding proteins and polynucleotides encoding the same. The disclosure further provides use of the novel antibodies, antigen binding proteins and/or nucleotide of the invention for the treatment and/or prevention of NGF related disorders, particularly in for the management of pain.




21: 2020/05282. 22: 2020/08/25. 43: 2025/07/17
51: A61K; G01N; A61P
71: SANOFI BIOTECHNOLOGY, REGENERON PHARMACEUTICALS, INC.
72: BESSAC, Laurence, HANOTIN, Corinne, SASIELA, William, SCHWARTZ, Gregory, PORDY, Robert, STEG, Philippe
33: US 31: 62/639,407 32: 2018-03-06
33: US 31: 62/640,361 32: 2018-03-08
33: US 31: 62/641,082 32: 2018-03-09
33: US 31: 62/641,918 32: 2018-03-12
33: US 31: 62/657,495 32: 2018-04-13
33: US 31: 62/683,695 32: 2018-06-12
**54: USE OF PCSK9 INHIBITOR FOR REDUCING CARDIOVASCULAR RISK**
00: -
The present invention provides methods for treating diseases and disorders that are associated with elevated levels of lipids and lipoproteins. The methods of the present invention comprise administering to a high cardiovascular risk patient a pharmaceutical composition comprising a PCSK9 inhibitor. In certain embodiments, the PCSK9 inhibitor is an anti-PCSK9 antibody such as the exemplary antibody referred to herein as mAb316P or alirocumab. The methods of the present invention are useful for treating high cardiovascular risk patients with hypercholesterolemia and elevated levels of other atherogenic lipoproteins that are not adequately controlled by maximum tolerated dose statin therapy. In particular, the methods of the present invention are useful for reducing cardiovascular risk and lowering atherogenic lipoproteins in high cardiovascular risk patients within 12 months following an acute coronary syndrome event despite a maximum tolerated dose statin therapy.




21: 2020/05479. 22: 2020/09/02. 43: 2025/05/27
51: B03D; B05B
71: FLSmidth A/S
72: WALKER, Mathew

33: US 31: 62/646,967 32: 2018-03-23
**54: FLOTATION MACHINE APPARATUS AND METHOD OF USING THE SAME**
00: -
A flotation machine includes a wash water system that is connectable adjacent a tank to direct sprays of water into froth within a froth zone. Wash water panel assemblies of the system can be positioned adjacent the tank so that each of the wash water panel assemblies are moveable between an open position and a closed position. Each wash water panel assembly can include an outer panel body that at least partially defines a reservoir in which wash water is passable and a spray membrane positionable adjacent the outer panel body. The spray membrane can have a plurality of spray holes in fluid communication with the reservoir such that water is passable from the reservoir and through the spray membrane via the spray holes for spraying water into the froth in the froth zone.

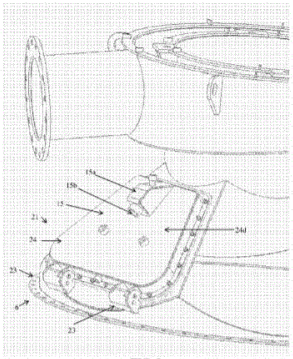


FIG. 3

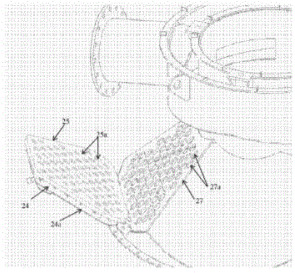
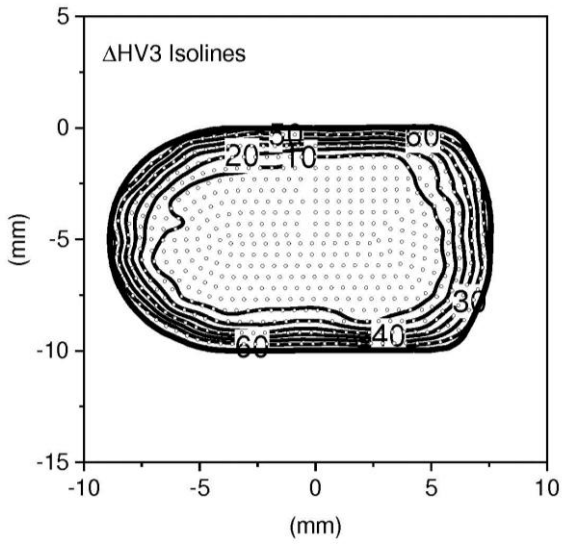


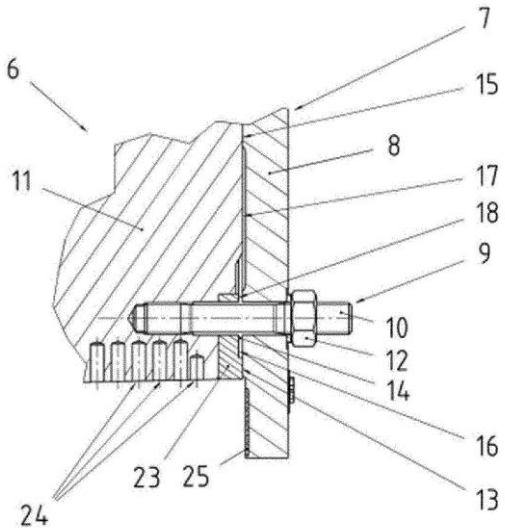
FIG. 4

21: 2020/05778. 22: 2020/09/17. 43: 2025/05/27
51: B22F; C04B; C22C
71: Sandvik Mining and Construction Tools AB
72: LILJA, Mirjam, TARRAGÒ CIFRE, José Maria, BORGH, Ida, MÅRTENSSON, Malin, ARVANITIDIS, Ioannis, TURBA, Krystof
33: EP(SE) 31: 18164215.8 32: 2018-03-27
**54: A ROCK DRILL INSERT**
00: -
A rock drill insert made of cemented carbide that comprises hard constituents of tungsten carbide (WC) in a binder phase of Ni-Cr, or Ni-Co-Cr, and balance WC and unavoidable impurities, wherein the cemented carbide comprises 3.5-18 wt% binder phase, the binder phase comprises > 0 wt% Ni, the mass ratio Cr/(Ni+Co) is 0.02- 0.19, the difference between the hardness at 0.3 mm depth at some point of the surface of the rock drill insert and the minimum hardness of the bulk of the rock drill insert is at least 30 HV3.




21: 2020/06187. 22: 2020/10/06. 43: 2025/05/27
51: B02C
71: FLSmidth A/S
72: PETERWERTH, Bernhard, HOFFMANN, Herbert
33: DE 31: 10 2018 108 690.3 32: 2018-04-12
**54: GRINDING ROLLER AND ROLLER PRESS**
00: -
The invention relates to a grinding roller for a roller press, comprising a cylindrical roller body (6) and at least one lateral wall (7) which is arranged on an end side of the roller body (6) and rotationally fixed to the roller body (6), and which protrudes beyond the outer casing surface of the roller body (6) on the outer side. In addition, the connection between the roller body (6) and the lateral wall (7) is brought about by means of at least one screw connection (9), wherein, in the un-connected state, i.e. when the screw connection provided for the connection is at least not yet tightened with a defined target tightening torque, the lateral wall (7) is in contact with the end wall of the roller body (6) in a first section (13) and a gap (18) is formed between the lateral wall and the end wall of the roller body in a second section (14). In contrast, in the connected state, i.e. when the screw connection (9) provided for the connection is tightened with the defined target tightening torque, this gap (18) is at least partially, preferably completely eliminated as a result of an elastic deformation of the lateral wall (7). Due to this embodiment of the grinding roller, relatively

high axial forces acting on the lateral wall (7) can be compensated by a relatively low tightening torque for the screw connection(s) (9), which has a positive effect on the lifespan of the connection.




21: 2020/06188. 22: 2020/10/06. 43: 2025/05/27
51: G01J
71: Vanessa Research, Inc.
72: FAZEKAS, Ferenc, GRAY, Norman
33: US 31: 62/647,893 32: 2018-03-26
**54: SUN SAFETY DEVICE**
00: -
The sun safety display and dispenser is a rugged outdoor device designed to measure the direct and scattered UV radiation in the atmosphere; to calculate and display a sun safety awareness index warning of the time to skin burn and or potential damage; to provide a personalized sun safety awareness index reading to help the user determine the appropriate SPF sunscreen, manually or automatically; and, to dispense sunscreen generally or by specific SPF as correlated with the user's personalized sun safety awareness index reading.

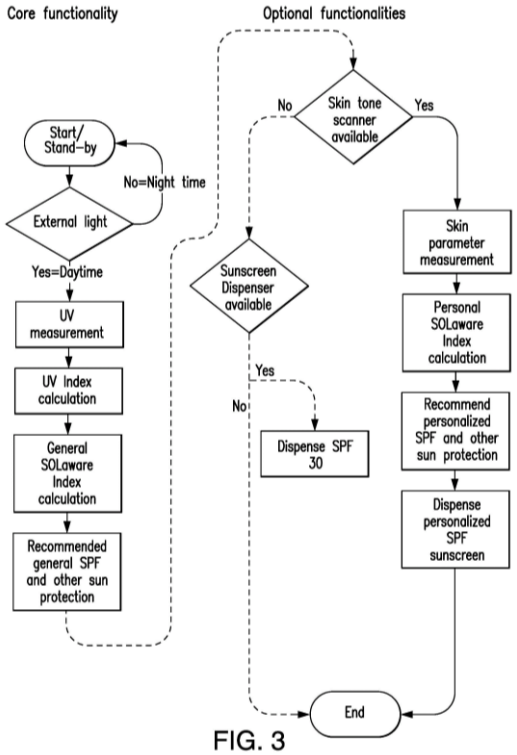
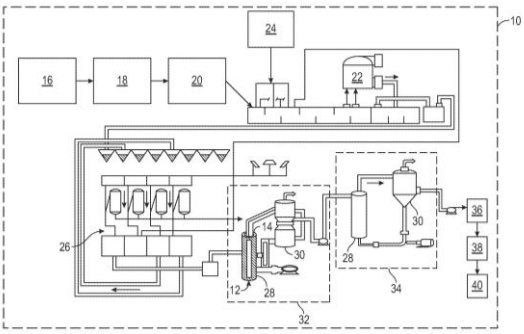



FIG. 3

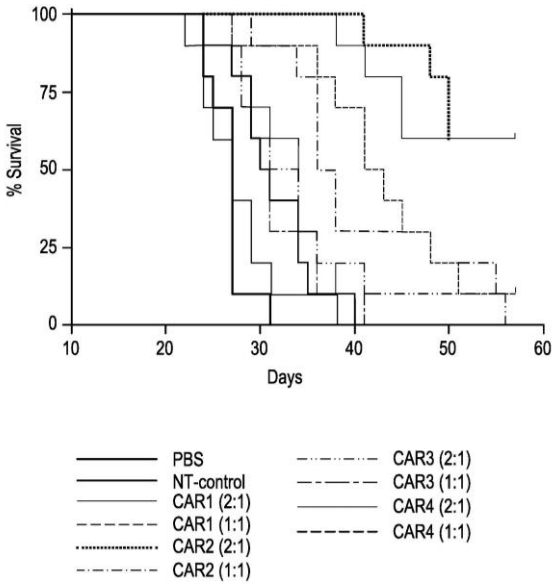
21: 2020/06287. 22: 2020/10/09. 43: 2025/06/03
51: B08B; C01B; C02F
71: Solenis Technologies Cayman, L.P.
72: BAKEEV, Kirill N., DIMAIO, Andrew M., SHEPHERD, Anthony M.
33: US 31: 15/918,079 32: 2018-03-12
**54: SYSTEMS AND METHODS FOR REDUCING FORMATION OF SCALE IN PHOSPHORIC ACID PRODUCTION**
00: -
A method for reducing formation of scale in phosphoric acid production is provided herein. Phosphate-containing ore is combined with an acid to form an acidic slurry and the acidic slurry is processed to form an acidic stream. The method includes providing a scale inhibitor including an inorganic phosphate. The method further includes combining the scale inhibitor and at least one of the phosphate-containing ore, the acidic slurry, or the acidic stream, to reduce the formation of scale. A system for phosphoric acid production exhibiting a reduced formation of scale is also provided herein. The system includes a substrate having a surface in contact with at least one of the phosphate-containing ore, the acidic slurry formed from the phosphate-containing ore and the acid, or the acidic stream formed from the acidic slurry. The system including

the scale inhibitor exhibits a reduced formation of scale on the surface.

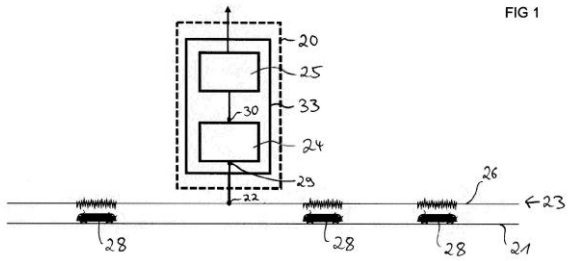



21: 2020/06747. 22: 2020/10/29. 43: 2025/06/09
51: A01N
71: WinField Solutions, LLC
72: GEDNALSKE, Joe V., ROTH, Jason, CLARK, Andrea, MAGIDOW, Lillian C.
33: US 31: 62/928,906 32: 2019-10-31
**54: DRIFT REDUCTION ADJUVANTS AND METHODS OF USING THE SAME**
00: -
Reducing fines from an agricultural spray dispensed from a nozzle is provided in the disclosed methods. The agricultural spray comprises water, an agricultural composition such as a pesticide, at least one oil emulsion drift reduction adjuvant, and at least one spontaneous emulsion drift reduction adjuvant. The agricultural spray exhibits fewer fine droplets having a diameter less than about 105 µm, about 150 µm, and/or about 210 µm compared to an agricultural spray neither or only one of the oil emulsion drift reduction adjuvant and the spontaneous emulsion drift reduction adjuvant.

21: 2020/06943. 22: 2020/11/06. 43: 2025/05/27
51: A61P; C07K
71: Amgen Inc., Kite Pharma, Inc.
72: GIFFIN, Michael John, THOMAS, Melissa, MURAWSKY, Christopher, CASE, Ryan Benjamin, WU, Lawren, WILTZIUS, Jed, RODRIGUEZ, Ruben Alvarez, FENG, Jun
33: US 31: 62/655,725 32: 2018-04-10
**54: CHIMERIC RECEPTORS TO DLL3 AND METHODS OF USE THEREOF**
00: -
Antigen binding molecules, chimeric receptors, and engineered immune cells to DLL3 are disclosed in accordance with the invention. The invention further relates to vectors, compositions, and methods of treatment and/or detection using the DLL3 antigen binding molecules and engineered immune cells.

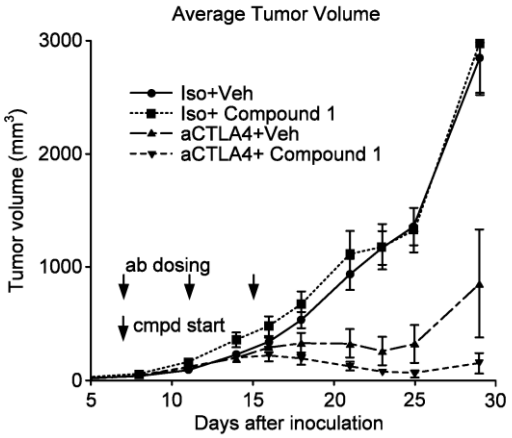



21: 2020/07416. 22: 2020/11/27. 43: 2025/05/27
51: B61L; G01D; G01H; G01S
71: Sensonic GmbH
72: ROSENBERGER, Martin
33: EP(AT) 31: 18175568.7 32: 2018-06-01
**54: MONITORING UNIT FOR MONITORING A LINEAR ASSET AND METHOD FOR MONITORING A LINEAR ASSET**
00: -
A monitoring unit (20)for monitoring a linear asset (21) comprises a connection to a data output (22) of a distributed sensor (23) arranged along the linear asset (21), where the linear asset (21) has a length which is different from the length of the distributed sensor (23), and a processing unit (33) which is configured to receive a data signal provided by the distributed sensor (23), to apply a transfer function, to evaluate the data signal and to provide a tracking output signal, wherein evaluating the data signal comprises running an evaluation algorithm, the transfer function is applied to the data signal or to the evaluation algorithm, and by applying the transfer function the data signal or the evaluation algorithm is normalised. Furthermore, a method for monitoring a linear asset (21) is provided.

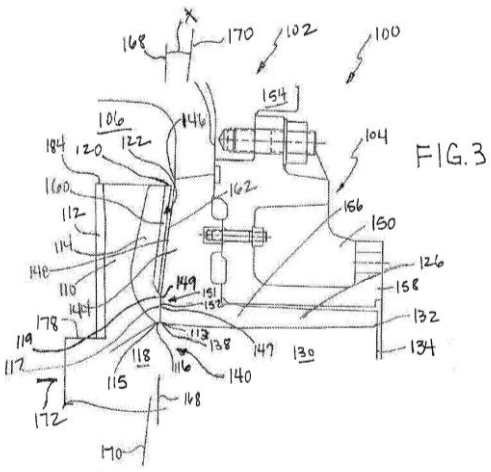



21: 2021/00467. 22: 2021/01/22. 43: 2025/07/02
51: A61K; A61P
71: ADC THERAPEUTICS SA, MEDIMMUNE LIMITED
72: ZAMMARCHI, Francesca, BERTONI, Francesco
33: GB 31: 1814207.5 32: 2018-08-31
33: GB 31: 1908225.4 32: 2019-06-10
**54: COMBINATION THERAPY**
00: -
The present disclosure relates to combination therapies for the treatment of pathological conditions, such as cancer. In particular, the present disclosure relates to combination therapies comprising treatment with an anti-CD19 Antibody Drug Conjugate (anti-CD19 ADC) and an anti-BCL-2 agent.

21: 2021/01055. 22: 2021/02/16. 43: 2025/07/02
51: A61K; C07D
71: CHEMOCENTRYX, INC.
72: LI, Shijie, MALI, Venkat Reddy, SINGH, Rajinder, YANG, Ju, ZHANG, Penglie
33: US 31: 62/724,412 32: 2018-08-29
33: US 31: 62/771,853 32: 2018-11-27
**54: COMBINATION THERAPY USING C-C CHEMOKINE RECEPTOR 4 (CCR4) ANTAGONISTS AND ONE OR MORE IMMUNE CHECKPOINT INHIBITORS**
00: -
The present disclosure is drawn to the combination therapy of a C-C Chemokine Receptor 4 (CCR4) antagonist and one or more immune checkpoint inhibitors in the treatment of cancer.




21: 2021/01210. 22: 2021/02/23. 43: 2025/07/29
51: F04D
71: Weir Minerals U.S. Inc.
72: KOSMICKI, Randy J., RUSSELL, Allen David
33: US 31: 62/713,192 32: 2018-08-01
**54: INVERTED ANNULAR SIDE GAP ARRANGEMENT FOR A CENTRIFUGAL PUMP**
00: -
Various aspects of the disclosure are directed to providing structures that define a radial gap between an impeller and a pump casing element that facilitates minimizing the movement of fluid into the radial gap in a manner that lessens the impact, and consequent degradation, of the inner surface of the pump casing element by movement of abrasive particulates out of the radial gap, which is accomplished by providing a suction inlet arrangement of an impeller and pump casing element that are angled from the eye of the impeller to the outer periphery of the impeller in a direction away from the back shroud or drive side of the impeller and toward a first end of the pump casing in which fluid is introduced into the pump casing.




21: 2021/02118. 22: 2021/03/29. 43: 2025/06/03
51: C12Q; C40B
71: REVVITY HOLDINGS, INC.
72: JASPER, MELINDA, MYERS, STEVEN
33: AU 31: 2018903923 32: 2018-10-17
**54: BARCODING OF NUCLEIC ACIDS**
00: -
The present disclosure relates to methods, kits and products for barcoding of nucleic acids. In certain embodiments, the present disclosure provides a method of producing nucleic acid for sequencing utilising clonal amplification on a solid substrate, the method comprising: (a) providing a nucleic acid sample for sequencing; (b) amplifying the nucleic acid sample using an amplifying primer comprising a degenerate nucleotide sequence and a 5' fixed nucleotide sequence, to produce amplified nucleic acids; and (c) further amplifying the amplified nucleic acids with (i) a first primer comprising the 5' fixed nucleotide sequence and a first adapter nucleotide sequence, and (ii) a second primer comprising the 5' fixed nucleotide sequence and a second adapter nucleotide sequence, wherein the first adapter nucleotide sequence or the second adapter nucleotide sequence provides a sequence for subsequent priming of DNA synthesis from a nucleotide sequence attached to the solid substrate and the other adapter nucleotide sequence provides a sequence for subsequent priming of DNA synthesis from a template produced from the subsequent priming, and wherein one or more of the first primer, the second primer and the amplifying primer comprise a specific identifier sequence to identify nucleic acids amplified with the first primer, the second primer and/or the amplifying primer; thereby producing nucleic acid for sequencing utilising clonal amplification on the solid substrate.

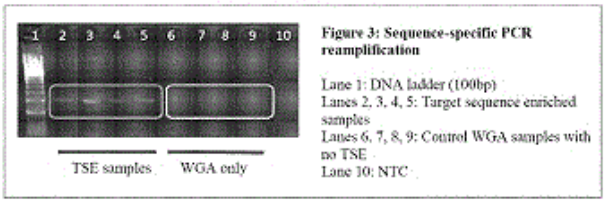
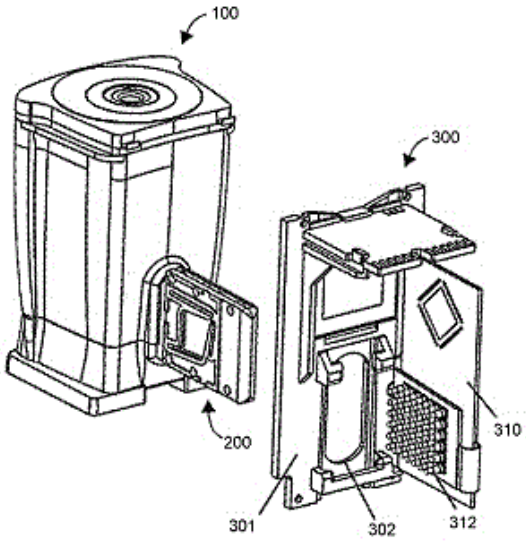


**Figure 3: Sequence-specific PCR reamplification**
Lane 1: DNA ladder (100bp)
Lanes 2, 3, 4, 5: Target sequence enriched samples
Lanes 6, 7, 8, 9: Control WGA samples with no TSE
Lane 10: NTC

21: 2021/02438. 22: 2021/04/14. 43: 2025/06/02
51: A61K
71: ONCOPEPTIDES INNOVATION AB
72: LINDBERG, JAKOB
33: GB 31: 1521217.8 32: 2015-12-01
**54: MELFLUFEN DOSAGE REGIMENS FOR CANCER**
00: -
The present invention provides melflufen (melphalan flufenamide; L-Melphalanyl-4- fluoro-L-phenylalanine ethyl ester), or a salt thereof, for use in the treatment or prophylaxis of multiple myeloma, wherein a dosage of melflufen (excluding the mass of any salt) is administered as a parenteral dosage at an infusion rate of 1.0 to 1.8 mg/min. Also provided is melflufen, or a salt thereof, for use in the treatment or prophylaxis of a cancer, for example a solid cancer, wherein a dosage of melflufen is administered as a parenteral dosage at an infusion rate less than 0.8 mg/min (for example 0.3 to 1.0 mg/minor for example 0.3 to 0.8 mg/min).

21: 2021/02464. 22: 2021/04/14. 43: 2025/06/02
51: B01L
71: CEPHEID
72: SIEGRIST, JONATHAN, CHANG, RONALD, DORITY, DOUGLAS B
33: US 31: 62/734,079 32: 2018-09-20
**54: SYSTEM, DEVICE AND METHODS OF SAMPLE PROCESSING USING SEMICONDUCTOR DETECTION CHIPS**
00: -
Systems for processing a fluid sample to facilitate analysis with a semiconductor detection chip are provided herein. Such systems can include a sample processing cartridge (100) coupleable with a chip carrier device (200) configured for transport of the processed fluid sample from the sample cartridge. The chip carrier device can include one or more fluid channels extending between fluid-tight couplings

attachable to transfer ports of the sample processing cartridge. The chip carrier device can include multiple portions or adapters, including a fluid sample portion, a flowcell portion and a chip carrier. Also provided are methods of preparing and transporting a fluid sample from a sample cartridge into a chip carrier device for analysis with a semiconductor detection chip carried within the chip carrier device.

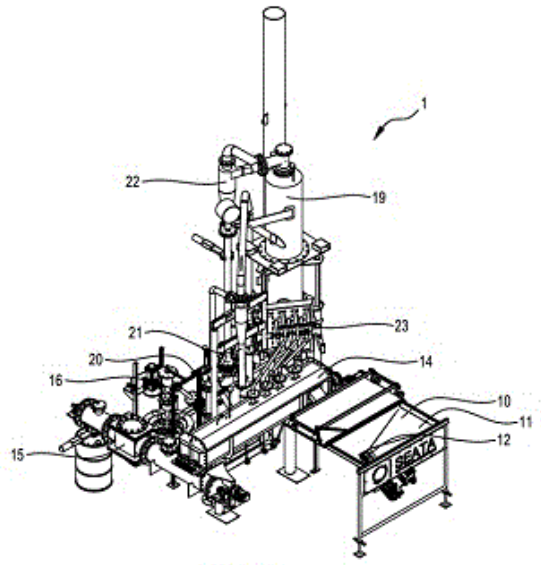



21: 2021/02616. 22: 2021/04/20. 43: 2025/06/11
51: C10B; C10J
71: SEATA HOLDINGS PTY LTD
72: WINTER, JOHN DAVID, MCFARLANE, JAMES
33: AU 31: 2018903826 32: 2018-10-10
33: AU 31: 2019901620 32: 2019-05-13

**54: PROCESS OF TREATING CARBONACEOUS MATERIAL AND APPARATUS THEREFOR**

00: -

A process for processing carbonaceous material, the process comprising: delivering a carbonaceous material to a reactor; delivering a catalyst to the reactor; processing the carbonaceous material at a relatively low temperature within the reactor to decompose the carbonaceous material to base compounds.

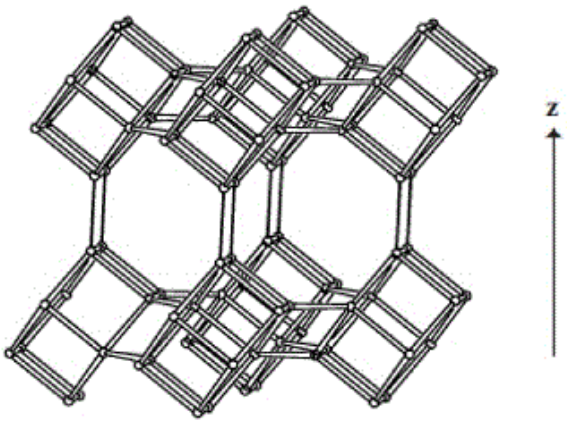



21: 2021/02671. 22: 2021/04/21. 43: 2025/06/11
51: C01B; B01J; B01D; F01N
71: BASF MOBILE EMISSIONS CATALYSTS LLC
72: KUNKES, EDUARD, MOINI, AHMAD, ORTEGA, MARITZA
33: US 31: 62/756,109 32: 2018-11-06

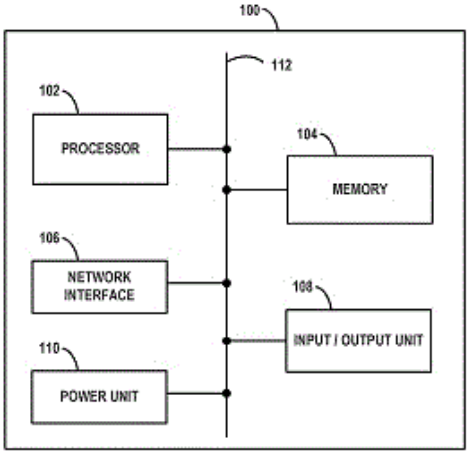
**54: ALUMINOSILICATE ZEOLITE INTERGROWTHS**

00: -

The present disclosure provides a method of making zeolite intergrowths. In one embodiment, the present disclosure provides a method of making an AEI-based material, including the steps of: preparing a mixture of water, an alumina source, a silica source, a CHA structure directing agent, and an AEI structure directing agent, wherein the molar ratio of the CHA structure directing agent to the AEI structure directing agent is from about 1:1 to about 1:15; heating the mixture at a temperature sufficient to promote formation of crystals; and calcining the crystals at a temperature of from about 450 ºC to about 750 ºC to obtain a product, wherein no halide-containing reagent is employed. The AEI-based materials of the present disclosure may find particular use in selective catalytic reduction of $NO_x$ in exhaust gas streams.




21: 2021/02693. 22: 2021/04/22. 43: 2025/06/11
51: G06Q
71: DOW GLOBAL TECHNOLOGIES LLC
72: HUBBS, CHRISTIAN, WASSICK, JOHN MARTIN
33: US 31: 62/750,986 32: 2018-10-26
**54: DEEP REINFORCEMENT LEARNING FOR PRODUCTION SCHEDULING**
00: -
Methods and apparatus for scheduling production at a production facility are provided. A model of a production facility utilizing one or more input materials to produce products that satisfy product requests can be determined. Each product request can specify a requested product to be available at a requested time. Policy and value neural networks can be determined for the production facility. The policy neural network can represent production actions to be scheduled at the production facility and the value neural network can represent benefits of products produced at the production facility. The policy and value neural networks can use the model of the production facility during training for generating a schedule of the production actions at the production facility that satisfy the product requests over an interval of time and relates to penalties due to late production of the requested products.




21: 2021/02772. 22: 2021/04/26. 43: 2025/06/10
51: G06N
71: DOW GLOBAL TECHNOLOGIES LLC
72: WANG, CHUN, WASSICK, JOHN MARTIN, ROTHHAAR, VICKI, DEB, KALYANMOY, DHEBAR, YASHESH, GOODMAN, ERIK
33: US 31: 62/738,482 32: 2018-09-28
**54: HYBRID MACHINE LEARNING MODEL FOR CODE CLASSIFICATION**
00: -
An embodiment involves a hybrid machine learning classifier that uses a random forest of decision tree classifiers to predict a tariff code prefix, and uses a plurality of expert trees to predict a tariff code suffix from properties related to chemical components associated with the respective tariff code prefixes. The embodiment also involves: determining a proportion of a dominant chemical component in comparison to other chemical components in a new set of chemical components; calculating similarity scores for the new set of chemical components and words associated with the tariff code prefixes; generating a feature vector from the proportion and the similarity scores; and obtaining a predicted tariff code including a predicted tariff code prefix determined by applying the random forest to the feature vector, and a predicted tariff code suffix determined by traversing a particular expert tree in accordance with properties related to the new set of chemical components.

21: 2021/03228. 22: 2021/05/12. 43: 2025/06/17
51: A61K; C07D; A61P
71: KEROS THERAPEUTICS, INC.

72: BETHUNE, SARAH, DIAZ, KRISTA, EVANS, CATHERINE A
33: US 31: 62/751,255 32: 2018-10-26
**54: CRYSTAL FORMS OF AN ALK2 INHIBITOR**
00: -
The invention relates to crystalline forms of an ALK2 inhibitor, methods of their preparation, and related pharmaceutical preparations thereof. The invention also relates to pharmaceutical uses of the crystalline forms.

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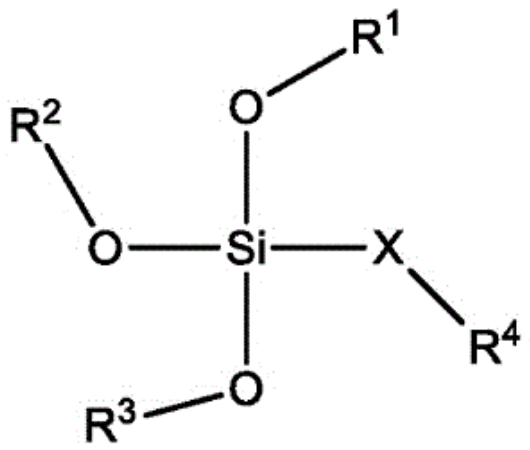
21: 2021/03229. 22: 2021/05/12. 43: 2025/06/23
51: A61K; C07F; C12N
71: ARBUTUS BIOPHARMA CORPORATION
72: ABRAMS, MICHAEL J, HEYES, JAMES, HOLLAND, RICHARD J, LAM, KIEU MONG, WOOD, MARK
33: US 31: 62/758,108 32: 2018-11-09
**54: CATIONIC LIPIDS CONTAINING SILICON**
00: -
Certain embodiments of the invention provide a cationic lipid of formula (I): wherein $R^1$, $R^2$, $R^3$and $R^4$are defined as described herein, as well as methods of making these lipids. Certain embodiments of the invention also provide nucleic acid-lipid particles comprising a cationic lipid of formula (I), methods of making the lipid particles, and methods of delivering and/or administering the lipid particles.




---

21: 2021/03233. 22: 2021/05/12. 43: 2025/06/17
51: C12N; A61K; B82Y
71: ARBUTUS BIOPHARMA CORPORATION
72: HEYES, JAMES, JUDGE, ADAM, LAM, KIEU MONG, PALMER, LORNE RALPH, SCHREINER, PETRA
33: US 31: 62/758,088 32: 2018-11-09
**54: LIPID NANOPARTICLE FORMULATIONS**
00: -
The invention provides certain specific lipid nanoparticles comprising: (a) one or more nucleic acid molecules; (b) cholesterol; (c) DSPC; (d) PEG-C-DMA; and (e) a cationic lipid; and pharmaceutical compositions comprising the lipid nanoparticles. The lipid nanoparticles and pharmaceutical compositions are particularly useful for delivering a nucleic acid such as siRNA or mRNA to a patient (e.g. a human) or to a cell.

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21: 2021/03285. 22: 2021/05/14. 43: 2025/06/23
51: C07D; A61P; A61K
71: TES PHARMA S.R.L.
72: PELLICCIARI, ROBERTO, LISCIO, PARIDE, GIACCHE, NICOLA, DE FRANCO, FRANCESCA
33: US 31: 62/769,959 32: 2018-11-20
**54: INHIBITORS OF ALPHA-AMINO-BETA-CARBOXYMUCONIC ACID SEMIALDEHYDE DECARBOXYLASE**
00: -
The present disclosure discloses compounds capable of modulating the activity of α-amino-β-carboxymuconic acid semialdehyde decarboxylase (ACMSD), which are useful for the prevention and/or the treatment of diseases and disorders associated with defects in $NAD^+$biosynthesis, e.g., metabolic disorders, neurodegenerative diseases, chronic inflammatory diseases, kidney diseases, and diseases associated with ageing. The present application also discloses pharmaceutical compositions comprising said compounds and the use of such compounds as a medicament.

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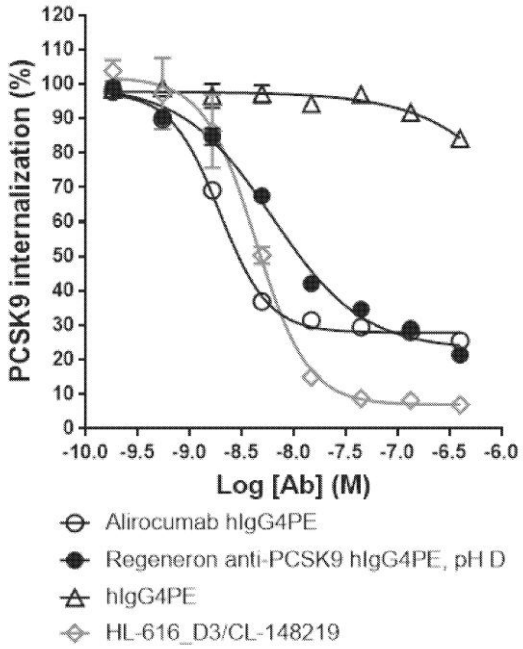
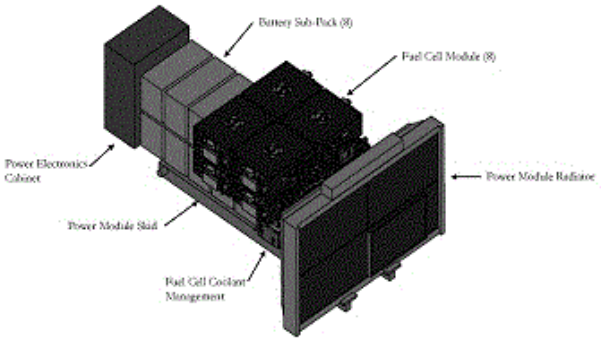
21: 2021/03999. 22: 2021/06/10. 43: 2025/07/25
51: A61K; C07K; A61P
71: KYMAB LIMITED
72: BRADLEY, Allan, LIANG, Qi, LEE, E-Chiang, LIOU, Li-Ying, HUANG, Yu-Hui, CHEN, Yen-Ju, CHEN, Li-Tzu
33: GB 31: 1820687.0 32: 2018-12-19
**54: ANTAGONISTS**
00: -
The invention relates to Proprotein Convertase Subtilisin Kexin type 9 (PCSK9) antagonists, such as antibodies and fragments, as well as methods, uses and combinations.

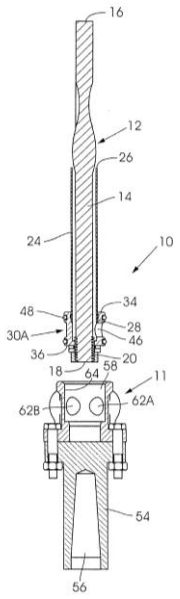



21: 2021/04667. 22: 2021/07/05. 43: 2025/06/18
51: C25B; B60L; H01M
71: CUMMINS INC.
72: SOLES, JULIAN JEREMY, VOORHEES, CHRISTOPHER JASON
33: GB 31: 1914406.2 32: 2019-10-04
**54: HYBRID HYDROGEN POWER MODULE**
00: -
Apparatus for powering trucks, the apparatus including a power module skid and supporting structure for fitting on a truck, the skid housing one or more hydrogen fuel cell modules, one or more battery sub packs, cooling means and cooling management, and integrated power electronics, to provide an electrical drive train of the truck with a constant high voltage DC power supply. Also an integrated system for using renewable energy in a mine environment to reduce the emission of greenhouse gases, in which environment, mined material is transported around the mine using one or more trucks, in which integrated system there are: means for providing renewable energy; means for using the renewable energy to synthesise hydrogen; means for storing the synthesised hydrogen; wherein, the integrated system further includes hybrid hydrogen power modules fitted to each truck, said power modules including hydrogen fuel cell modules and battery sub packs, whereby the stored hydrogen is loaded on to the truck to feed the hydrogen fuel cell modules so that the truck is entirely powered by the combination of the hydrogen fuel cells and the battery sub packs and the battery sub packs are recharged by the hydrogen fuel cells during use such that they do not need to be removed or remotely charged.

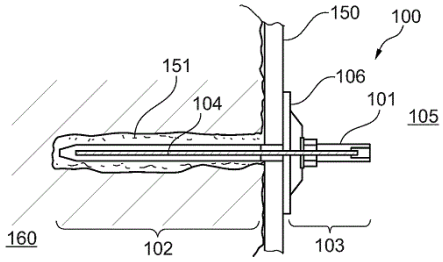



21: 2021/05218. 22: 2021/07/23. 43: 2025/08/06
51: E21D
71: INNOVATIVE MINING PRODUCTS (PTY) LTD
72: CROMPTON, BRENDAN ROBERT, CAWOOD, MARTIN, PASTORINO, PAOLO ETTORE, ABREU, RUAL
**54: RESIN-GROUTED ROCK BOLT ASSEMBLY WITH AN ADAPTED SEALING BUSH**
00: -
The invention provides a rock bolt assembly which includes: an elongate bolt which extends between a distal end and a proximal end; a tubular sleeve which longitudinally extends between a leading end and a trailing end, on the bolt such that at least a proximal end portion of the bolt projects from the trailing end of the sleeve; and a nozzle docking bush on the proximal end portion between the trailing end of the sleeve and the proximal end of the bolt, the bush having a cylindrical body defined between a first end and a second end, a central hole formed through the body between the ends, a pair of spaced apart annular ridges on an outer surface of the cylindrical body, a grout distributing channel between the annular ridges, and an aperture in the channel which communicates the channel with the hole; wherein the central hole includes a leading portion which ends at the first end and which is adapted to receive the trailing end of the sleeve in sealing engagement, and a trailing portion which ends at the second end and which is adapted to sealingly engage the bolt; and wherein each annular

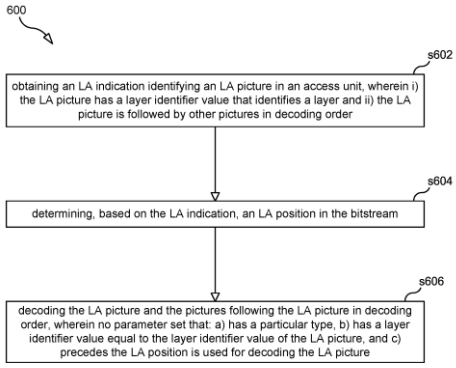
ridge is adapted to seal against a nozzle of a grout delivery system; thereby to provide, on engagement of the nozzle with the bush, a sealed grout passage defined by the grout distributing channel, the aperture, the central hole and an interior of the sleeve.




21: 2021/06890. 22: 2021/09/17. 43: 2025/06/18
51: E21D
71: MONTANUNIVERSITÄT LEOBEN
72: FEIEL, Susanne, KERN, Wolfgang, GRIESSER, Thomas, MOSER, Peter
33: AT 31: A60039/2019 32: 2019-02-19
**54: ROCK BOLT HAVING SENSOR FOR MEASURING MECHANICAL TENSION**
00: -
The present invention relates to a rock bolt (100) having state monitoring for determining tensions or deformations in the form of a conductor track (104) attached to the bolt body (102), the electrical resistance of which conductor track changes proportionately to the tension/deformation. The conductor track can consist of electrically conductive inks which are applied directly to the bolt body by means of a printing process.




21: 2021/10497. 22: 2021/12/15. 43: 2025/07/04
51: H04N
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: SJÖBERG, Rickard, DAMGHANIAN, Mitra, PETTERSSON, Martin
33: US 31: 62/864,683 32: 2019-06-21
**54: VIDEO CODING LAYER UP-SWITCHING INDICATION**
00: -
There are provided mechanisms for decoding a set of pictures from a bitstream. The method comprises obtaining a layer access, LA, indication identifying an LA picture in an access unit, wherein i) the LA picture has a layer identifier value that identifies a layer and ii) the LA picture is followed by other pictures in a decoding order. The method comprises determining, based on the LA indication, an LA position in the bitstream. The method comprises decoding the LA picture and the other pictures following the LA picture in the decoding order, wherein no parameter set that: a) has a particular type, b) has a layer identifier value equal to the layer identifier value of the LA picture, and c) precedes the LA position is used for decoding the LA picture.



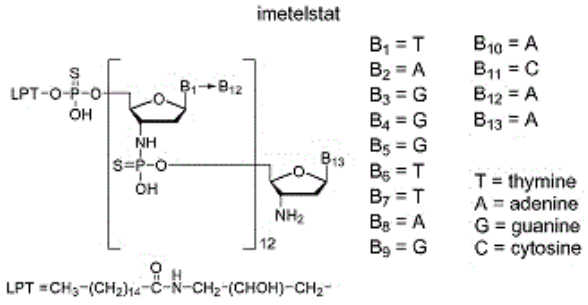

21: 2021/10555. 22: 2021/12/17. 43: 2025/06/18
51: C07H
71: GERON CORPORATION

72: MUSLEHIDDINOGLU, JALE, GALA, DINESH, ALBANEZE-WALKER, JENNIFER ELIZABETH
33: EP 31: 17180426.3 32: 2017-07-10

**54: IMPROVED PROCESS FOR PREPARING IMETELSTAT**

00: -

The present invention relates to a process for preparing the telomerase inhibitor imetelstat using a 3 steps per cycle solid- phase support bound process comprising the steps of deprotection of the 3'-amino group of the support-bound oligonucleotide, coupling with a 5'-phosphoramidite, and sulfurization with an acyl disulfide, characterized by the absence of an additional capping step in each cycle that is used to prevent unreacted 3'-amino oligonucleotide groups from reacting during subsequent cycles. Imetelstat has formula below.

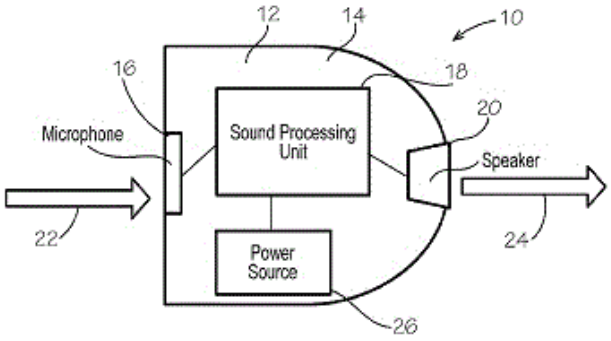



21: 2022/00667. 22: 2022/01/13. 43: 2025/06/03
51: H04R
71: SOUNDTRACK OUTDOORS, LLC
72: DICKINSON, WILLIAM, GNEWIKOW, DAVID
33: US 31: 62/860,867 32: 2019-06-13

**54: HEARING ENHANCEMENT AND PROTECTION DEVICE**

00: -

A listening device (10) is disclosed for positioning in an ear canal of a user to process an environmental sound signal (22). The device can include an earpiece (12) positionable in the ear canal of the user. A microphone (16) can be positioned on the earpiece (12) for receiving the environmental sound signal (22) when the earpiece (12) is positioned in the user's ear canal. A sound processing unit (18) can be electrically coupled with the microphone (16), the sound processing unit (18) programmed to produce a processed sound signal (24) by identifying a target sound signature within the environmental sound signal (22) received from the microphone, and modifying the identified target sound signature within the processed sound signal (24). A speaker (20) can be electrically coupled to the sound processing unit (18), the speaker (20) configured to project the processed sound signal (24) as audible sound.

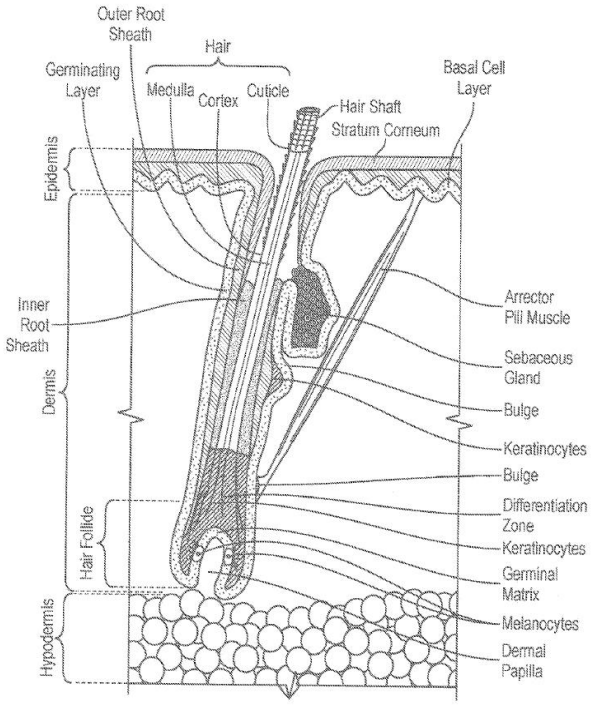



21: 2022/00775. 22: 2022/01/17. 43: 2022/07/27
51: A61K; A61P; A61Q
71: ANEIRA PHARMA, INC.
72: WURST, John Edward
33: US 31: 62/883,809 32: 2019-08-07
33: US 31: 62/895,869 32: 2019-09-04
33: US 31: 63/100,611 32: 2020-03-23

**54: COMPOSITIONS FOR THE TREATMENT OF HAIR LOSS**

00: -

Compositions and methods for the treatment of hair growth and the prevention of hair loss.



21: 2022/01560. 22: 2022/02/04. 43: 2025/07/02
51: A61K; A61L; A61P
71: CAMBRIDGE ENTERPRISE LIMITED
72: POWELL, Jonathan, FARIA, Nuno, BASTOS, Carlos Passos, THOM, Will
33: GB 31: 1911361.2 32: 2019-08-08
33: GB 31: 2007917.4 32: 2020-05-27
**54: LIQUID DRESSING COMPOSITIONS AND THEIR VETERINARY USES**
00: -
Liquid dressing compositions liquid for veterinary use in the treatment or prevention of infection and/or wounds are described that comprise shellac, an anti-infective metal active and a solvent. The compositions are capable of forming a barrier when topically applied to a non-human animal subject, providing an easily applied barrier for protecting lesions and other wounds from external infective agents in a veterinary setting.

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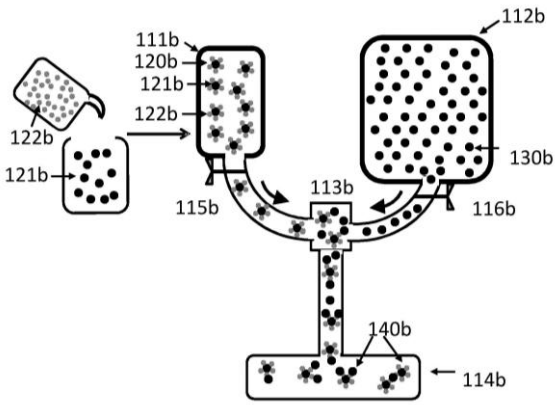
21: 2022/01900. 22: 2022/02/14. 43: 2025/06/06
51: B01J; B82Y; G01N
71: SICPA HOLDING SA
72: PIOTTI, Marcelo Eduardo, SCHEFFLER, Raymond H., KOWALSKI, Mark
33: US 31: 62/874,158 32: 2019-07-15
**54: METHOD FOR MANUFACTURING SURFACE ENHANCED RAMAN SPECTROSCOPY TAGS**
00: -
The present invention relates to the field of methods of manufacturing of surface enhanced Raman spectroscopy (SERS) tags. The manufacturing method according to the present invention is reproducible and versatile and enables the production in an expedient manner of high quantities of SERS tags characterized by a narrow size distribution and a high ratio of low-number aggregates. SERS tags manufactured by the inventive manufacturing method described herein provide increased ensemble SERS responses.

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21: 2022/01901. 22: 2022/02/14. 43: 2025/06/09
51: B01D
71: Daimler Truck AG
72: SCHUMACHER, Eric
33: DE 31: 10 2019 004 927.6 32: 2019-07-15
**54: FLUID FILTER FOR A MOTOR VEHICLE AND FILTER CARTRIDGE FOR A FLUID FILTER**
00: -
The invention relates to a fluid filter (10) for a motor vehicle, having a filter cartridge (12), which is arranged in a filter housing (14), which comprises a housing pot (16) and a cover element (18). The filter cartridge (12) has a filter material (22). The filter cartridge (12) is connected to the housing pot (16) by rotation about a longitudinal axis (26) of the filter cartridge (12). A retaining element (30) having a web (34) is arranged on an end plate (28) of the filter cartridge (12), which web protrudes from a wall (32) of the retaining element (30). The wall (32) is spiral-shaped when viewed from the top in the direction of the longitudinal axis (26). In an assembly position of the filter cartridge (12), the web (34) engages behind a retaining web (36), which, when viewed from the top in the direction of the longitudinal axis (26), protrudes from a spiral-shaped wall (38) of an abutment (42) arranged on the housing pot (16). The invention furthermore relates to a filter cartridge (12).

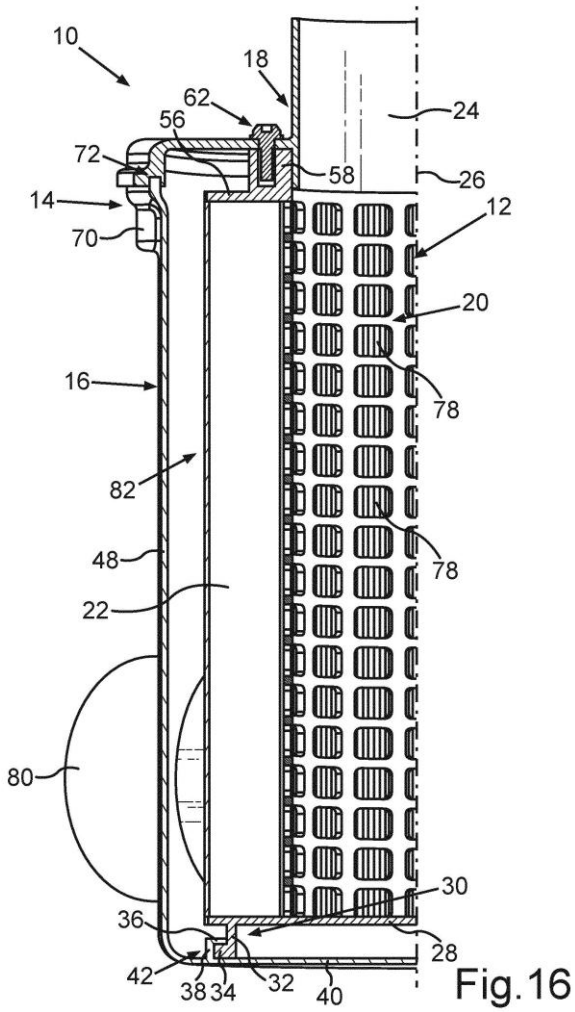
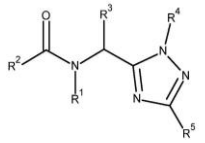


Fig.16

21: 2022/02237. 22: 2022/02/22. 43: 2025/06/06
51: A01N; A01P; A61K; A61P; C07D
71: Bayer Aktiengesellschaft
72: ARLT, Alexander, SCHWARZ, Hans-Georg, CANCHO GRANDE, Yolanda, FÜßLEIN, Martin, JESCHKE, Peter, EBBINGHAUS-KINTSCHER, Ulrich, LINKA, Marc, LÖSEL, Peter, DAMIJONAITIS, Arunas Jonas, TURBERG, Andreas, HEISLER, Iring, MANDZHULO, Oleksandr
33: EP(DE) 31: 19187891.7 32: 2019-07-23
**54: NOVEL HETEROARYL-TRIAZOLE COMPOUNDS AS PESTICIDES**
00: -

The present invention relates to novel heteroaryl-triazole and heteroaryl-tetrazole compounds of the general formula (I), in which the structural elements $R^1$, $R^2$, $R^3$, $R^4$ and $R^5$ have the meaning given in the description, to formulations and compositions comprising such compounds and for their use in the control of animal pests including arthropods and insects in plant protection and to their use for control of ectoparasites on animals.


(I)

21: 2022/02724. 22: 2022/03/07. 43: 2025/07/02
51: H04L
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: NIMBALKER, Ajit, NORY, Ravikiran
33: US 31: 62/914,268 32: 2019-10-11
**54: METHODS AND APPARATUSES FOR HANDLING CONFIGURED AND DYNAMIC DOWNLINK TRANSMISSIONS IN A WIRELESS COMMUNICATION NETWORK**
00: -

Techniques disclosed herein efficiently address prioritization by a UE (12) regarding its reception behavior with respect to a configured downlink transmission that is overlapped by a dynamic assignment and/or the dynamic downlink transmission scheduled via the dynamic assignment. In at least one embodiment having applicability to operation of the UE (12) in a communication network based on the 5G NR specifications, the techniques disclosed herein provide for predictable behavior by the UE (12) as to when the UE (12) prioritizes a configured Physical Downlink Shared Channel (PDSCH) versus another PDSCH. Correspondingly, a radio network node (22) may exploit the predictable behavior of the UE (12) to override a configured PDSCH in favor of a dynamic PDSCH, by transmitting the Physical Downlink Control Channel (PDCCH) that schedules the dynamic PDSCH so that a timing relationship between the PDCCH and the configured PDSCH is satisfied.

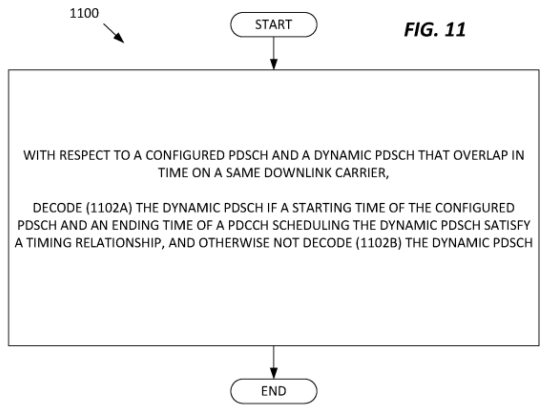
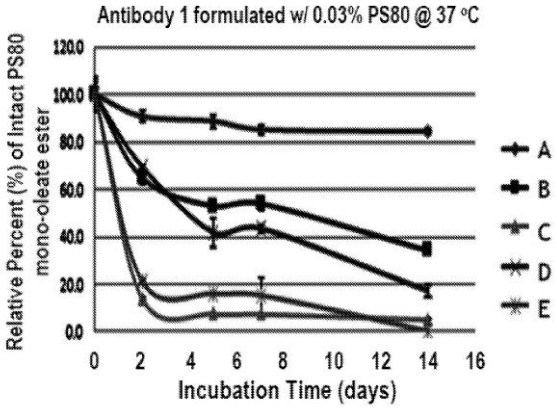
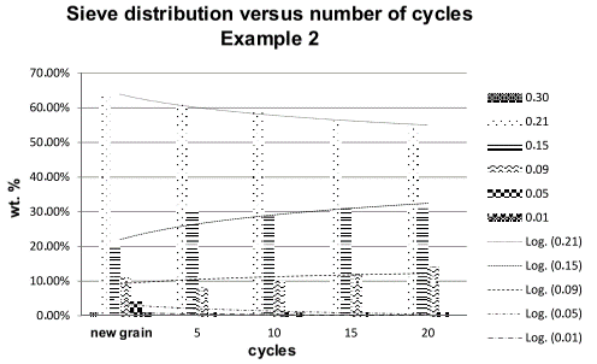



FIG. 11

21: 2022/03208. 22: 2022/03/17. 43: 2025/06/20
51: C07K; C12N
71: Eli Lilly and Company
72: FRYE, Christopher Carl, HALL, Troii, HUANG, Lihua, SANDEFUR, Stephanie Lynn
33: US 31: 62/915,234 32: 2019-10-15
**54: RECOMBINANTLY ENGINEERED, LIPASE/ESTERASE-DEFICIENT MAMMALIAN CELL LINES**
00: -
Mammalian cell lines with reduced expression and/or activity of lipases/esterases, and methods of producing the same are provided. Also provided are compositions comprising polysorbate and recombinant proteins produced in said mammalian cells which have improved polysorbate stability.




21: 2022/03218. 22: 2022/03/17. 43: 2025/07/07
51: B24C
71: VULKAN INOX GMBH
72: HIDDE, Marc, HAHN, André
33: DE 31: 10 2019 133 017.3 32: 2019-12-04
**54: ABRASIVE FOR JET CUTTING**
00: -
The present invention proposes an abrasive for jet cutting comprising particles of a stainless steel, said stainless steel consisting of a microstructure, said microstructure comprising at least martensite, in particular in a range of ≥ 20 wt.% to ≤ 100 wt.%, austenite in a range of ≥ 0 wt% to ≤ 50 wt%, and chromium carbide, chromium nitride and/or mixtures thereof, together in a range of ≥ 0 wt% to ≤ 45 wt% based on the microstructure, the proportions being selected such that together they amount to ≤ 100 wt% based on the microstructure. The abrasives for jet cutting exhibit particularly good lifetime and recyclability. Furthermore, the invention proposes a suspension for jet cutting comprising at least the proposed abrasive for jet cutting and a suspending agent, as well as the use of the abrasive for jet cutting for cutting a workpiece.




21: 2022/03414. 22: 2022/03/23. 43: 2025/06/23
51: A61K; C07K; C12N
71: Chugai Seiyaku Kabushiki Kaisha
72: SHIMADA, Hideaki, KANAMORI, Masakazu, KOO, Xing'er Christine
33: JP 31: 2019-155278 32: 2019-08-28
**54: CROSS-SPECIES ANTI-LATENT TGF-BETA 1 ANTIBODIES AND METHODS OF USE**
00: -
The objective of the invention is to provide cross-species anti-latent TGF-beta 1 antibodies which inhibit a protease mediated activation of latent TGF-beta 1 without inhibiting integrin mediated activation of latent TGF-beta 1. To obtain the anti-latent TGF-beta 1 antibodies of the invention, anti-latent-latent TGF-beta 1 antibodies which inhibit a protease mediated activation of latent TGF-beta 1 without inhibiting integrin mediated activation of latent TGF-beta 1 were screened, and then humanized, and further optimized. The invention also provides combination therapies comprising an anti-latent TGF-beta 1 antibody and one or more immune

checkpoint inhibitors, preferably a PD-1 axis binding antagonists.

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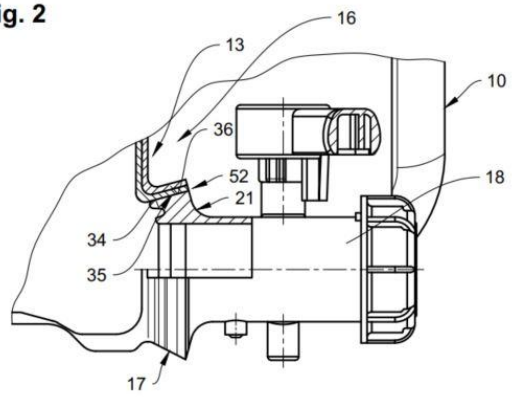
21: 2022/03449. 22: 2022/03/24. 43: 2025/07/07
51: B29C; B29K; B29L; B65D
71: PROTECHNA S.A.
72: BLÖMER, Peter, MOSEN, Johannes, ERLL, Carsten, ERLL, Thomas
33: DE 31: 10 2019 129 504.1 32: 2019-10-31
**54: PLASTIC CONTAINER FOR LIQUIDS AND METHOD FOR PRODUCING A PLASTIC CONTAINER**
00: -
A plastic container (10) and a method for producing a plastic con-tainer for liquids, in particular an inner container for transport and storage containers for liquids comprising an outer jacket made of lat-ticework or of sheet metal material and a pallet-type understructure, the plastic container (10) being realized as a blow-molded body by blow molding from a tubular preform in a blow mold and having a container socket (17) for connecting a container fitting (18) in a fit-ting connecting area (16) of a container wall (13), the container sock-et (17) being provided with a container opening and being connected to a connecting flange (21) of the container fitting (18) via a welded joint (52), wherein the container wall (13) has an inner layer made of a first plastic material and an outer layer made of a second plastic material, and the container socket (17) has a longitudinal cross sec-tion widening toward the container opening in such a manner that an end face of the container socket (17) is formed at least in part by an inner layer segment disposed opposite the outer layer, and a welding contact surface of the container socket (17) is formed by the inner layer segment.

**Fig. 2**

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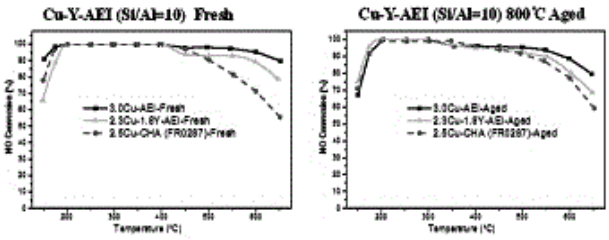
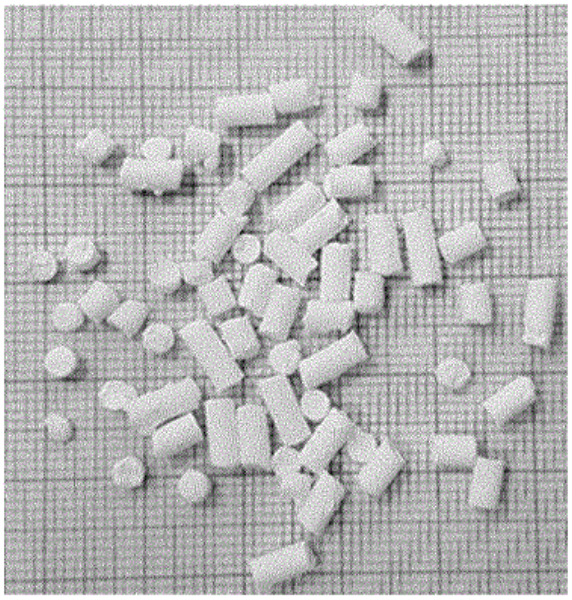
21: 2022/03787. 22: 2022/04/01. 43: 2025/06/02
51: B01J; B01D
71: BASF MOBILE EMISSIONS CATALYSTS LLC
72: PARVULESCU, ANDREI-NICOLAE, MCGUIRE, ROBERT, MUELLER, ULRICH, ZHANG, WEIPING, SHI, CHUAN
33: CN 31: PCT/CN2019/120528 32: 2019-11-25
**54: RARE EARTH ELEMENT CONTAINING ZEOLITIC MATERIAL HAVING THE AEI FRAMEWORK TYPE AND COATED MONOLITH SUBSTRATE**
00: -
A rare earth element containing zeolitic material having an AEI-type framework structure, the framework structure of the zeolitic material comprising $SiO_2$ and $X_2O_3$, X being a trivalent element, wherein the zeolitic material contains one or more rare earth elements as counter-ions at the ion exchange sites of the framework structure, and wherein the zeolitic material is obtainable and/or obtained according to a process involving the hydrothermal treatment of the rare earth element containing zeolitic material at a temperature in the range of from 400 to 1,000 ℃. A coated monolith substrate comprising a rare earth element containing zeolitic material having an AEI-type framework structure, wherein the zeolitic material is supported on the monolith substrate. A process for the production of a coated monolith substrate comprising a rare earth element containing zeolitic material having an AEI-type framework structure.



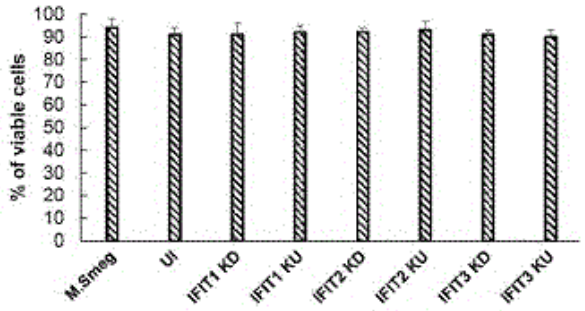

21: 2022/03914. 22: 2022/04/06. 43: 2025/05/30
51: B29B C08J C08K
71: BASF SE
72: GFROERER, Thomas, Georg, SATHYANARAYANA, Shyam, Sundar, GEOERG, Yean, Yik, PUCH, Florian, O'SULLIVAN, Jennifer, M, HERBST, Heinz
33: EP 31: 19196747.0 32: 2019-09-11
**54: METHOD FOR MANUFACTURING A PELLET IN A PELLET MILL, A PELLET AND ITS USE**
00: -
Method for manufacturing a pellet in a pellet mill, comprising the steps of (a) pressing a mixture for compaction by a roller through a nozzle to obtain a strand, and (b) comminuting the strand to obtain the pellet, wherein the mixture for compaction comprises (i) 87 to 97 wt.-% of a polymer stabilizer, which is tris(2,4-ditert- butylphenyl) phosphite (CAS-No. 31570-04-4), and (ii) 3 to 13 wt- % of a processing aid, which is a propylene-ethylene copolymer and which possesses a melting enthalpy below 100 J/g at 101.32 kPa. The pellet is useful for a dust-free handling of its polymer stabilizer at a manufacturing of the stabilized polymer. Furthermore, a method for stabilizing a polymer, which is a polyolefin, a polystyrene or a mixture thereof, is also disclosed, which comprises the dosing of the pellet to the polymer.



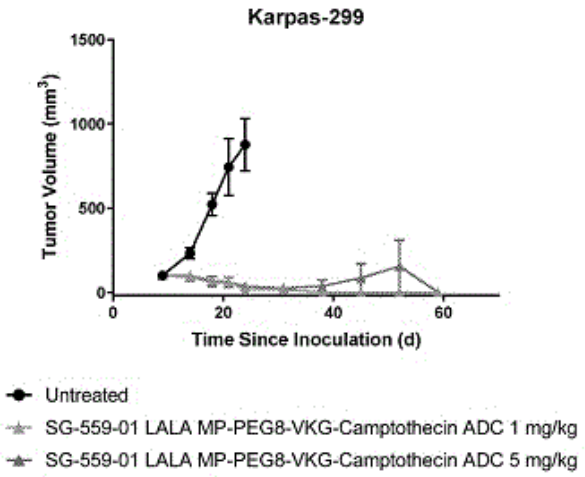
21: 2022/04022. 22: 2022/04/08. 43: 2025/06/02
51: B01J; C10G
71: MURA TECHNOLOGY LIMITED
72: DALEY, RICHARD, ROWLANDS, WILLIAM
33: AU 31: 2019903756 32: 2019-10-04
**54: PROCESS AND APPARATUS FOR CONVERTING POLYMERS INTO PRODUCTS**
00: -
The present invention provides methods and an apparatuses for converting polymeric material into hydrocarbon products.

21: 2022/04201. 22: 2022/04/13. 43: 2025/06/02
51: C07K; A61P
71: STELLENBOSCH UNIVERSITY
72: MISHRA, ABHILASHA MADHVI, BAKER, BIENYAMEEN
33: ZA 31: 2019/06603 32: 2019-10-08
**54: IFIT POLYPEPTIDES AND USES FOR TREATING TUBERCULOSIS INFECTION**
00: -
The present invention relates to methods of increasing the cellular concentration of Interferon Induced Protein with Tetratricopeptide repeats (IFIT) polypeptides in a cell infected with a mycobacterium. The method includes the introduction of exogenous IFIT polypeptides or expression vectors encoding the exogenous IFIT polypeptides into the cell, wherein increasing the cellular concentration of the IFIT polypeptide reduces the number of viable mycobacteria in the cell. The invention also relates

to methods of treatment and uses of IFIT proteins and uses of vectors encoding IFIT proteins.




21: 2022/04437. 22: 2022/04/20. 43: 2025/06/05
51: C07K; A61P; A61K
71: SEAGEN INC.
72: KWAN, BYRON HUA, VAN EPPS, HEATHER, WAIGHT, ANDREW, JEFFREY, SCOTT, LYSKI, RYAN
33: US 31: 62/910,988 32: 2019-10-04
**54: ANTI-PD-L1 ANTIBODIES AND ANTIBODY-DRUG CONJUGATES**
00: -
Provided are novel anti-PD-L1 antibodies and antibody-drug conjugates and methods of using such anti-PD-L1 antibodies and antibody-drug conjugates to treat cancer.

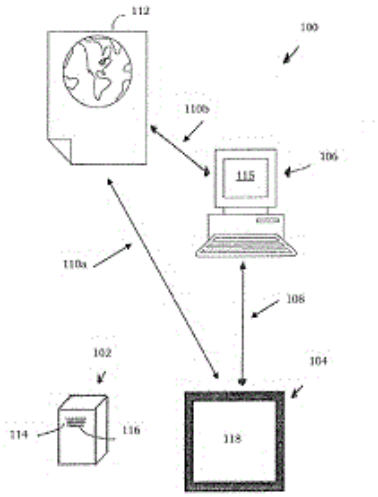



21: 2022/04625. 22: 2022/04/25. 43: 2025/06/05
51: C09D; C08L; C03C
71: ARKEMA FRANCE
72: HOEKMAN, LEENDERT
33: FR 31: FR1915083 32: 2019-12-20
**54: FORMULATION COMPRISING CARNAUBA WAX AND AT LEAST ONE PARTICULAR SORBITAN MONOESTER**
00: -
The present invention deals with a formulation comprising at least one ethoxylated $C_{13}$-$C_{19}$ sorbitan monoester, saturated or not; and carnauba wax. Furthermore, the present invention pertains to a coating dilution comprising said formulation and the use of the formulation or of the coating dilution as a cold-end coating on a glass-container.

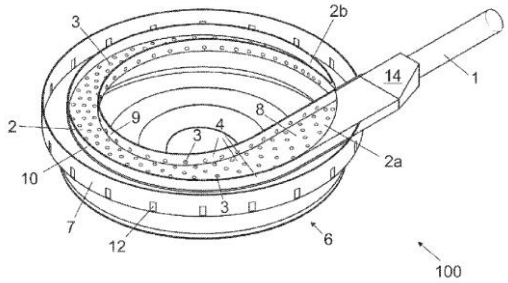
21: 2022/04626. 22: 2022/04/25. 43: 2025/06/05
51: B01D; B01J; C22B
71: RIO TINTO IRON AND TITANIUM CANADA INC.
72: PAQUIN, MICHEL, ROY, SIMON
33: US 31: 62/926,708 32: 2019-10-28
**54: PURIFICATION OF SCANDIUM CONCENTRATE**
00: -
In order to reduce the contamination of scandium oxide products, the present disclosure provides a process for removing at least one metal contaminant from a scandium (Sc) concentrate. The process is based on contacting the Sc concentrate with an ion exchange resin to obtain a purified Sc eluate or raffinate. The first ion exchange resin and the second ion exchange resin are strong acid cationic resins with sulfonic acid functional groups in a potassium or sodium form. The purified Sc eluate or raffinate can be used to make scandium oxide products having a reduced amount of metal ion contaminants.

21: 2022/04708. 22: 2022/04/28. 43: 2025/06/10
51: G06K
71: ALTRIA CLIENT SERVICES LLC
72: CADIEUX, EDMOND J, HARRUP, KEVIN
33: US 31: 62/076,118 32: 2014-11-06
**54: METHODS AND PRODUCTS FOR PRODUCT TRACING AND AUTHENTICATION USING CONDUCTIVE INKS**
00: -
A product authentication method, an authentication server and a product package. The method comprises (i) receiving confirmation from a computing device that a first code has triggered activation of an application running on the computing device, (ii) receiving a second code from the computing device, (iii) determining whether the second code is present in a non-transitory computer readable medium, and (iv) providing the computing

device with access to information if the second code is present in the non-transitory computer readable medium. The product package comprises a substrate and an ink on a surface of the substrate. The ink is electrically conductive and configured to trigger a first authentication process in a computing device when the ink is proximate to the computing device.

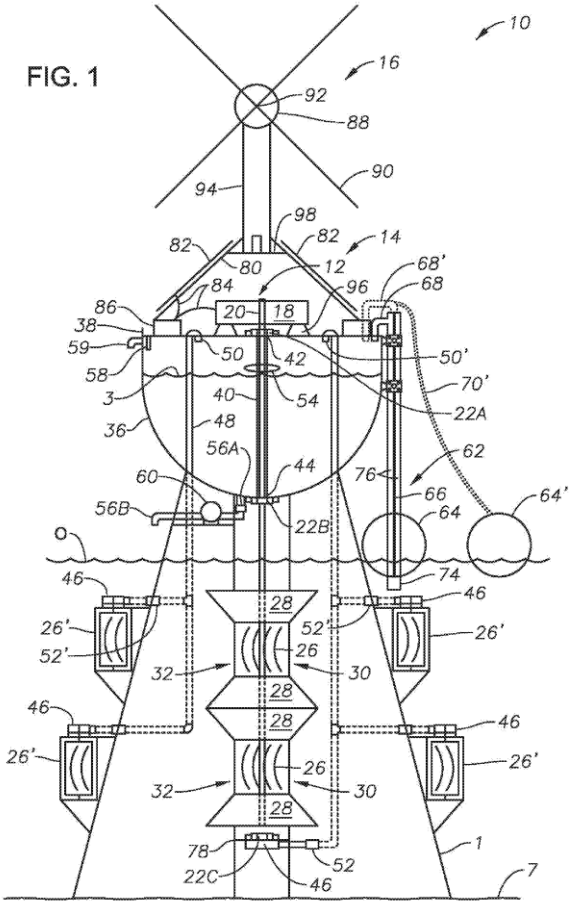



21: 2022/04795. 22: 2022/04/29. 43: 2025/06/03
51: B01D; B03D; C22B
71: METSO OUTOTEC FINLAND OY
72: TRIGLAVCANIN, Richard, VIDUKA, Stephen
33: WO 31: PCT/FI2019/050698 32: 2019-09-30
**54: FEEDWELL APPARATUS, TROUGH, PLANT AND USE**
00: -
A feedwell apparatus trough, plant and use. The apparatus is adapted to materials comprising liquids carrying suspended particles, such as slurry containing minerals. The feedwell apparatus (100) comprises - a supply channel (1) for receiving the material, - a trough (2), a first end (2a) of which being connected in fluid communication with the supply channel (1), the trough (2) comprising a curved shape that turns in one direction, and - plurality of through-openings (3) in the wall(s) (4) of the trough (2).The through- openings (3) are arranged in the trough (2) in unequal pattern such that area of the through-openings (3) in proportion to the corresponding area of the walls (4) has its minimum value in portion of the trough (2) close to the first end (2a) thereof, and said relation being arranged to grow with the distance from the first end (2a).

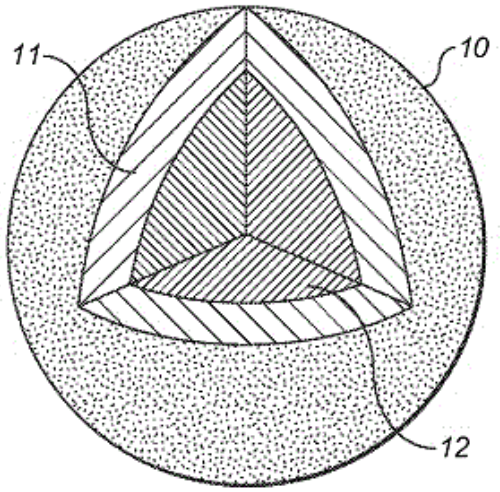



21: 2022/04935. 22: 2022/05/05. 43: 2025/07/17
51: B63B; B63H; F03D
71: CUMMINGS, Michael, Scot
72: CUMMINGS, Michael, Scot
33: US 31: 62/943,455 32: 2019-12-04
33: US 31: 63/023,345 32: 2020-05-12
**54: REACTIVE, REVERSIBLE BLADE TURBINE FOR POWER GENERATION AND PUMPING WATER**
00: -
A reactive blade turbine system works vertically, horizontally, or at an angle and clockwise or counterclockwise according to blade angle and locking position and adjusts to variations in fluid flow such as changes in tidal currents to generate power more efficiently regardless of direction of fluid flow.

FIG. 1



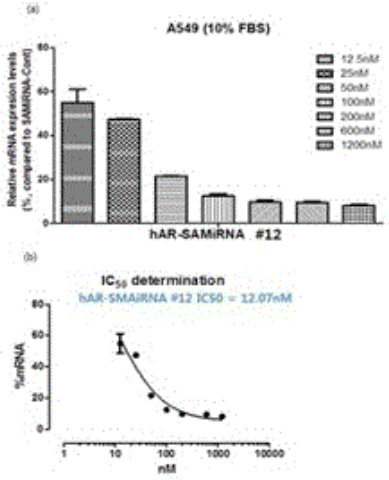

21: 2022/05498. 22: 2022/05/18. 43: 2025/06/24
51: C05D; C05G; C05C
71: ANGLO AMERICAN WOODSMITH LIMITED
72: LEWIS, TIMOTHY DAVID, MEAKIN, ROBERT JOHN
33: GB 31: 1915510.0 32: 2019-10-25
**54: COMPOSITE FERTILISER SYSTEMS**
00: -
A fertiliser product in the form of a pellet, granule or prill, the fertiliser product comprising: a first fertiliser composition capable of providing (a) two or more alkali metal and/or alkaline earth metal nutrients and (b) sulphur; and a second fertiliser composition, the second fertiliser composition being a nitrogen-providing fertiliser composition, and the first fertiliser composition being incorporated into the second fertiliser composition. A bulk fertiliser product comprising a plurality of the said fertiliser products.



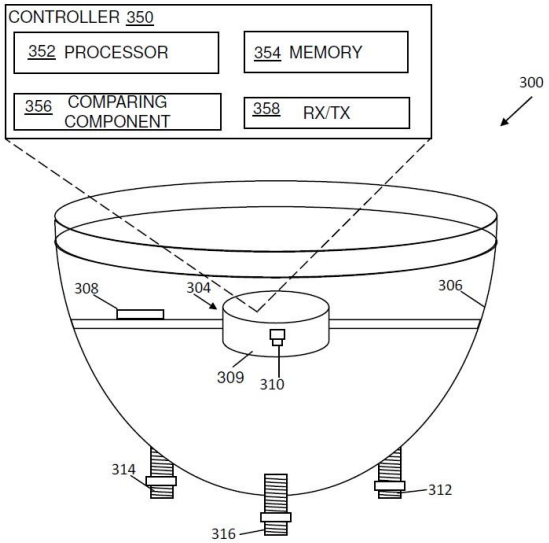

21: 2022/05945. 22: 2022/05/27. 43: 2025/06/24
51: C12Q; C12N; C12P
71: HUNAN LIER BIOTECH CO., LTD.
72: XIE, XINKAI, XU, WEI, FAN, JUNYING
33: CN 31: 201911249924.4 32: 2019-12-09
**54: MODIFIED DAAO ENZYME AND APPLICATION THEREOF**
00: -
The present invention relates to a modified D-amino acid oxidase (DAAO). Specifically, the modified DAAO has activity of catalyzing glufosinate D to be oxidized to PPO. In addition, the modified DAAO has improved activity of catalyzing the glufosinate D to be oxidized to PPO and/or improved stability compared with SEQ ID NO:4. The present invention further relates to a polynucleotide encoding the modified DAAO, a vector and host cell expressing the modified DAAO, and a method for producing L-glufosinate using the modified DAAO and the host cell.

21: 2022/06418. 22: 2022/06/09. 43: 2025/06/18
51: C12N; A61K; A61P
71: BIONEER CORPORATION
72: KIM, TAE-RIM, YOON, PYOUNG OH, KO, YOUNGHO, BAE, SEON JOO, PARK, HAN-OH, SON, SEUNG SEOB, PARK, JUN-HONG, YUN, SUNG Il
33: KR 31: 10-2018-0059783 32: 2018-05-25
**54: AMPHIREGULIN GENE-SPECIFIC DOUBLE-STRANDED OLIGONUCLEOTIDE AND COMPOSITION FOR PREVENTING AND TREATING FIBROSIS-RELATED DISEASES AND RESPIRATORY DISEASES, COMPRISING SAME**
00: -

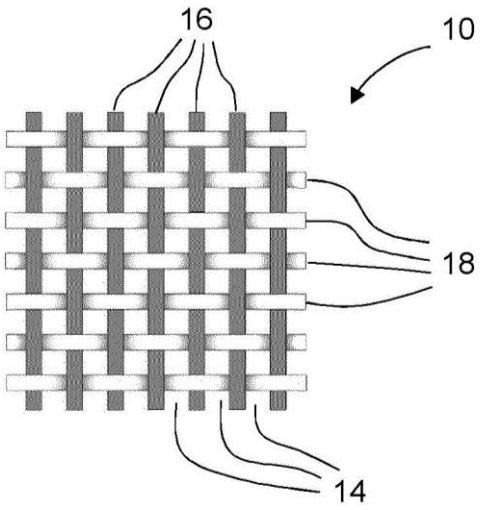
The present invention relates to a double-stranded oligonucleotide which can highly specifically and efficiently inhibit an amphiregulin expression and, preferably, a double-stranded oligonucleotide comprising a sequence in the form of RNA/RNA, DNA/DNA or DNA/RNA hybrid, a double-stranded oligonucleotide structure comprising the double-stranded oligonucleotide, nanoparticles comprising the double-stranded oligonucleotide structure, and a fibrosis or respiratory disease preventive or therapeutic use thereof.



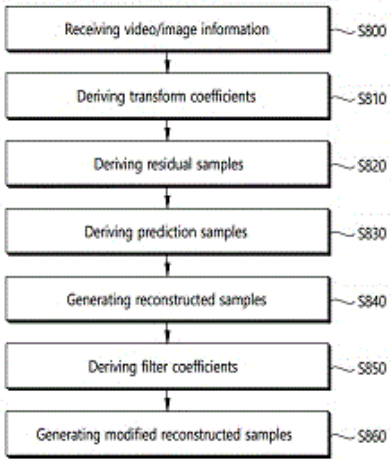

21: 2022/06701. 22: 2022/06/17. 43: 2025/06/11
51: G01W; G02F
71: AFRICA NEW ENERGIES LIMITED
72: LARKIN, Stephen, OMAR, Muhammad, USMAN, Muhammad, TAHA, Muhammad, RAW, Brendon, KHAN, Saad Saleem
**54: PYRANOMETER**
00: -
Embodiments of a pyranometer are disclosed. The pyranometer (300) includes a first thermoelectric sensor (303) and a second thermoelectric sensor (307) that are arranged for sensing solar radiation. A temperature controlling device (305) may be arranged to control an operating temperature of the first and second thermoelectric sensors in use. Another exemplary embodiment (500) of the pyranometer includes an optic (502) configured to split an incident light beam into a plurality of beams having different energies, the optic positioned so that the split beams at least partially strike a thermoelectric sensor (504).



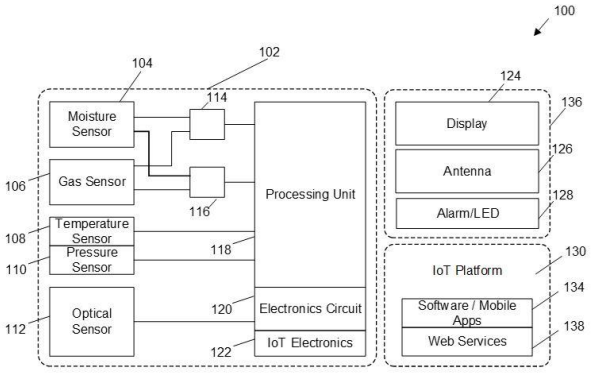

21: 2022/08458. 22: 2022/07/28. 43: 2025/08/08
51: A24F; H05B
71: PHILIP MORRIS PRODUCTS S.A.
72: BUTENKEMPER, Stefan, JOHN, Detlef, ZINOVIK, Ihar, Nikolaevich
33: EP 31: 20154181.0 32: 2020-01-28
33: EP 31: 20197829.3 32: 2020-09-23
**54: HEATING ELEMENT HAVING HEAT CONDUCTIVE AND WICKING FILAMENTS**
00: -
A heating element (10) for an aerosol-generating system, the heating element (10) comprising a plurality of first filaments (16) and a plurality of second filaments (18), wherein the plurality of first filaments (16) are configured to heat a liquid aerosol-forming substrate; and wherein the plurality of second filaments (18) are configured to convey a liquid aerosol-forming substrate to wet at least a portion of the heating element (10) with liquid aerosol-forming substrate.




21: 2022/08523. 22: 2022/07/29. 43: 2025/06/10
51: H04N
71: LG ELECTRONICS INC.
72: PALURI, SEETHAL, HENDRY, HENDRY
33: US 31: 62/961,699 32: 2020-01-15
**54: IMAGE CODING DEVICE AND METHOD BASED ON FILTERING-RELATED INFORMATION SIGNALING**
00: -
According to embodiments of the present document, a zero-order exponential Golomb coding scheme(ue(v)) is used for a parsing procedure of an information/syntax element related to luma/chroma ALF filter coefficient absolute values, so that operational overhead and complexity can be reduced. In addition, since the range of values of the information related to the luma/chroma ALF filter coefficient absolute values is fixed, coding that uses ue(v) can be efficiently performed.

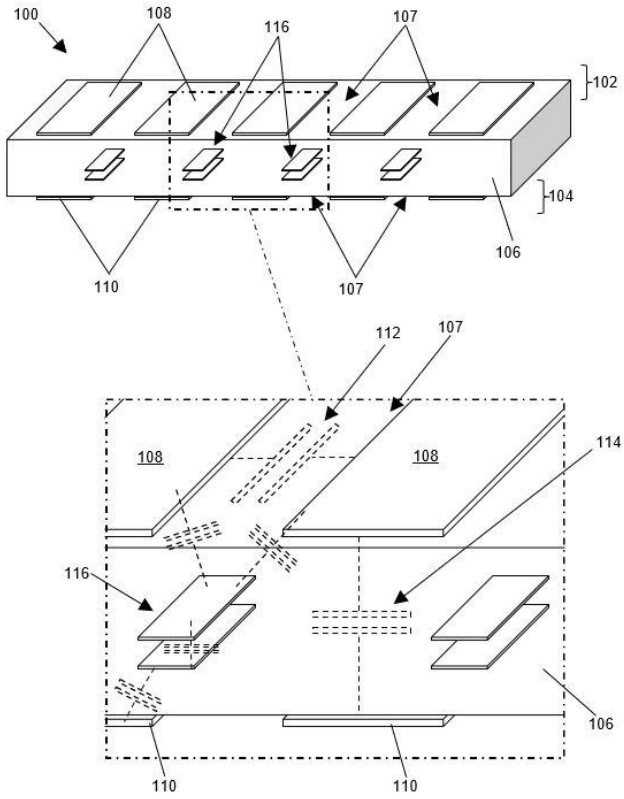



21: 2022/09459. 22: 2022/08/24. 43: 2025/06/09
51: G01K; G01R; H04W
71: AFRICA NEW ENERGIES LIMITED
72: LARKIN, Stephen, OMAR, Muhammad, KHAN, Haris Jamal, USMAN, Muhammad, RAW, Brendon, KHAN, Saad Saleem
**54: FLUID MONITORING**
00: -
There is provided a dielectric permittivity sensing system, sensor and method. A dielectric permittivity sensor includes an electrically conductive structure that has an input and an output. A microwave transmitter is connected to the input of the electrically conductive structure and arranged to energise it in use, so as to cause an output signal to be generated. An electromagnetic sensor is connected and responsive to the output of the electrically conductive structure and capable of generating sensor data. A calibration device automatically calibrates the dielectric permittivity sensor. The calibration device includes a moveable conductive element and a stationary conductive element spaced apart from the moveable conductive element so as to vary a quantity of fluid interposed between the elements. A processing unit is arranged to determine the permittivity of the fluid based on sensor data received from the electromagnetic sensor.



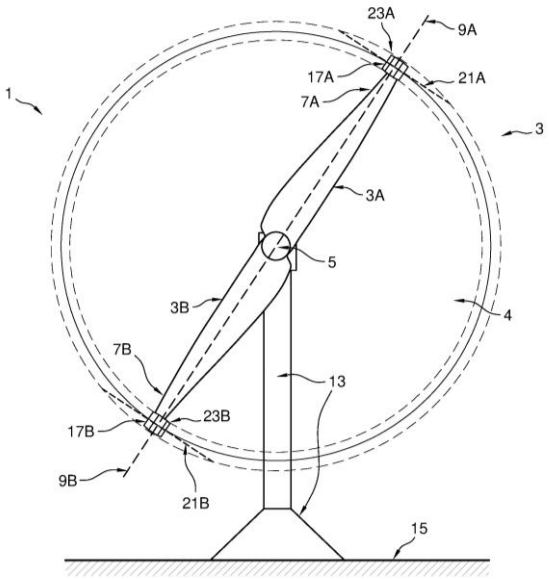

21: 2022/10517. 22: 2022/09/22. 43: 2025/07/02
51: G01R
71: AFRICA NEW ENERGIES LIMITED
72: LARKIN, Stephen, OMAR, Muhammad, KHALEEQ, Tajamal, RAW, Brendon, KHAN, Saad Saleem
**54: FRACTAL CAPACITIVE SENSOR AND NON-INVASIVE VOLTAGE MEASUREMENT APPARATUS INCORPORATING SAME**
00: -

A capacitive sensor and a non-invasive voltage measurement apparatus are disclosed. The sensor has a first conductive plate layer and a second conductive plate layer with a dielectric layer sandwiched between them. Each of the first and second conductive plate layers have spaced-apart conductive plates separated by dielectric gaps. The conductive plates on the first and second conductive plate layers are positioned opposite each other across the dielectric layer. The dielectric layer comprises a non-uniform material having either or both of a plurality of sections of dielectric material having different dielectric constants, and conductive plates embedded in the dielectric layer.



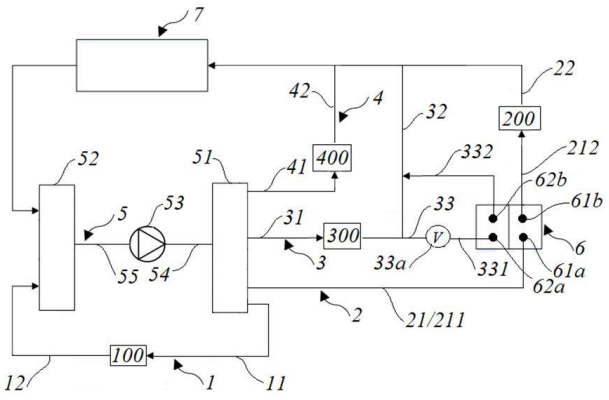

21: 2022/11303. 22: 2022/10/14. 43: 2025/07/02
51: A61K; C07K
71: BIOMODIFYING, LLC, RAMOT AT TEL-AVIV UNIVERSITY LTD.
72: RUBINSTEIN, Daniel, WRESCHNER, Daniel
33: US 31: 62/991,077 32: 2020-03-18
**54: ANTI-*MUC1-SEA* ANTIBODIES**
00: -
The present invention provides isolated monoclonal antibodies which bind to the MUC1 SEA domain. The invention also concerns the use of these antibodies in therapeutic and diagnostic methods.

21: 2022/11834. 22: 2022/10/31. 43: 2025/06/25
51: F03D
71: EQUINOX OCEAN TURBINES B.V.
72: DE HAAS, Pieter Daniël
33: NL 31: 2025538 32: 2020-05-08
**54: TURBINE WITH SECONDARY ROTORS**
00: -
The invention relates to a turbine comprising a primary rotor, for positioning in a fluid flow, having a primary rotor blade rotatable around a primary rotor axis under influence of the fluid flow acting on the primary rotor blade and extending from the primary rotor axis along a longitudinal axis to a free outer end of the primary rotor blade. The primary rotor blade is provided near the free outer end with a secondary rotor. The secondary rotor has a secondary rotor blade rotatable around a secondary rotor axis in response to a rotation of the primary rotor blade around the primary rotor axis. The secondary rotor axis is substantially transverse to the longitudinal axis of the primary rotor blade. The secondary rotor axis is also substantially transverse to the primary rotor axis. The turbine is characterised in that the secondary rotor axis is positioned offset from the longitudinal axis of the primary rotor blade.



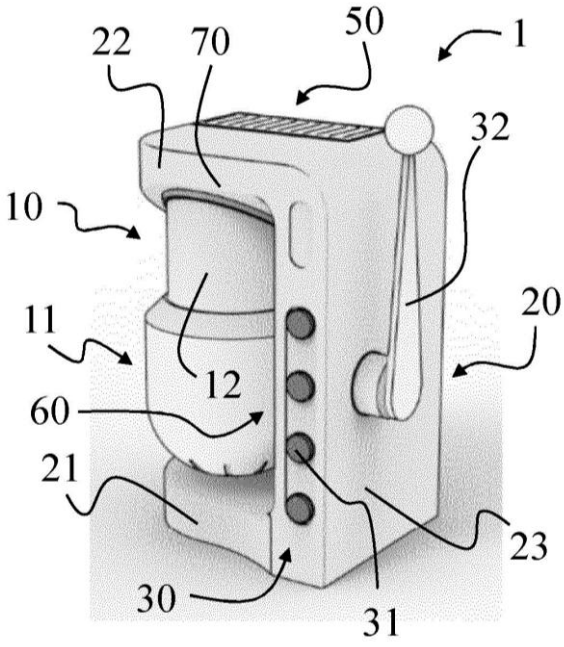

21: 2022/12076. 22: 2022/11/04. 43: 2025/07/07
51: F03D
71: GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.

72: WANG, Dinghui, LIU, Junwei, GAO, Si
33: CN 31: 202010516571.6 32: 2020-06-09
**54: COOLING SYSTEM AND WIND POWER GENERATOR SET**
00: -
A cooling system and a wind power generator set. The cooling system comprises a first cooling circuit (1) for cooling a first heating component (100), a second cooling circuit (2) for cooling a second heating component (200), a third cooling circuit (3) for cooling a third heating component (300), a fourth cooling circuit (4) for cooling a fourth heating component (400), a pump station unit (5), and a heat dissipation unit (7); the pump station unit (5) comprises a pump group (53), a water separator (51), and a water collector (52), a water supply main (54) is provided between the pump group (53) and the water separator (51), and a water return main (55) is provided between the pump group (53) and the water collector (52); the pump group (53) provides a cooling medium for the first cooling circuit (1), the second cooling circuit (2), the third cooling circuit (3) and the fourth cooling circuit (4) by means of the water separator (51); the first cooling circuit (1) is directly in communication with the water separator (51) and the water collector (52); and the second cooling circuit (2), the third cooling circuit (3) and the fourth cooling circuit (4) are in communication with the water collector (52) by means of the heat dissipation unit (7) respectively. The system can control a plurality of cooling circuits in a centralized manner, simplifying pipeline configuration, and reducing the number of heat dissipation components.



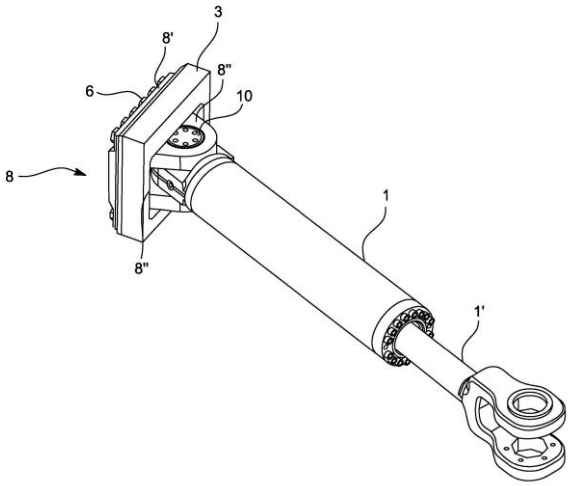

21: 2023/00162. 22: 2023/01/03. 43: 2025/05/29
51: A23F; A23N; A47J

71: Société des Produits Nestlé S.A.
72: SAVIOZ, Grégory, ROUSSELIN, Frank, JANET MAITRE, Ghislain, DEL REY, Jonathan
33: EP(CH) 31: 20179357.7 32: 2020-06-10
**54: APPARATUS AND METHOD FOR ROASTING COFFEE BEANS**
00: -
The invention relates to an apparatus (1) and a method for more convenient roasting of coffee beans. The apparatus (1), which is provided for roasting coffee beans, comprises: a chamber (10) in which coffee beans can be received for roasting, wherein the chamber (10) comprises an opening (13), and a device for roasting the coffee beans received in the chamber (10). The chamber (10) is movable with respect to a movement axis into different positions, wherein these positions comprise a roasting position, preferably a bean reception position, and a bean discharge position, wherein in the roasting position the device is arranged to roast the coffee beans received in the chamber (10), in the bean reception position, if present, the chamber (10) is arranged to receive, via the opening (13), coffee beans for subsequent roasting in the roasting position, and in the bean discharge position the chamber (10) is arranged such that the coffee beans can be discharged via the opening (13) from the chamber (10).



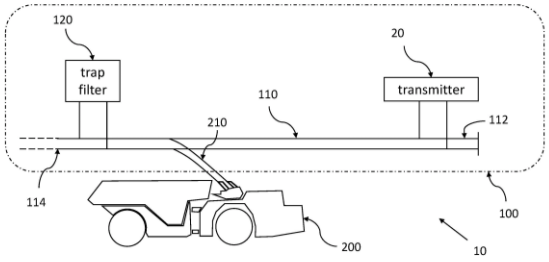

21: 2023/00165. 22: 2023/01/03. 43: 2025/05/29

51: B62D
71: Sandvik Mining and Construction Oy
72: LIETONEN, Jani
**54: A HYDRAULIC CYLINDER MOUNTING ARRANGEMENT**
00: -
A cylinder mounting arrangement including: a mining vehicle having a frame; and at least one hydraulic cylinder (1) mounted to the frame of the vehicle, the cylinder (1) having a cylinder pin (10) for the mounting. In the invention the frame has an opening through which the cylinder (1) can be inserted inside the frame and also removed, and that a mounting element (8) has been assembled to one end of the cylinder (1), the mounting element (8) including a front plate (8') being assembled against the outside of the frame covering the opening (5) at least partially and two ears (8") for the attachment to the cylinder pin (10), and that the front plate (8') is fixed to the frame by mounting bolts (6) or screws from the outside the frame. The invention also relates to a mining vehicle.



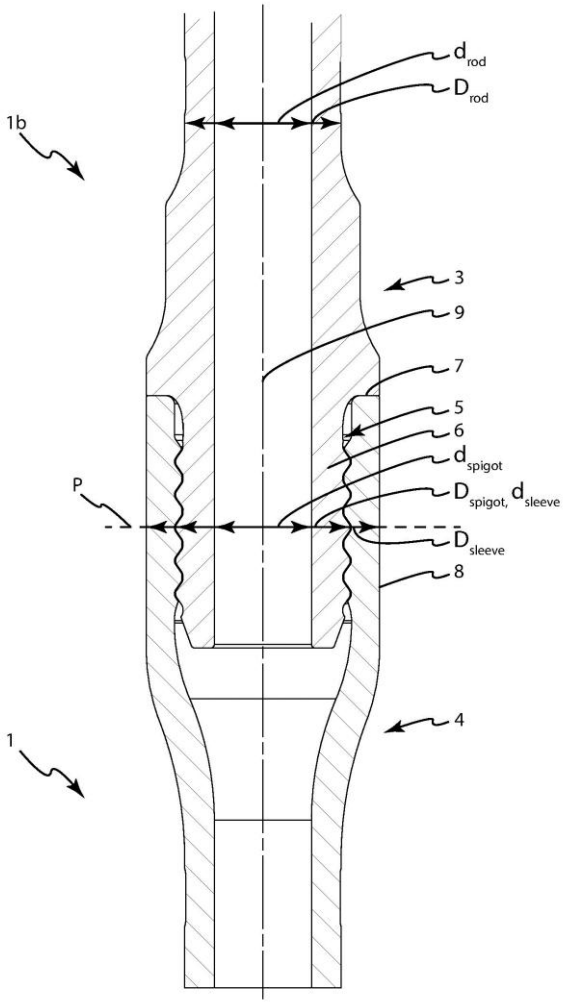

21: 2023/01220. 22: 2023/01/30. 43: 2025/06/10
51: C07D
71: UNIVERSITY OF KWAZULU-NATAL
72: KARPOORMATH, RAJSHEKHAR, SAYYAD, NISAR
33: IN 31: 202021031239 32: 2020-07-21
**54: SYNTHESIS OF HETEROCYCLIC COMPOUNDS FROM CARBOXAMIDE AND CARBOXAMIDE DERIVATIVES WITH HALOALKANOLS**
00: -
The invention provides for methods for the synthesis of various compounds through reaction of carboxamide, or carboxamide derivatives, with various substituted or unsubstituted haloalkanols in a one-step, single vessel, reaction mechanism. Preferably, but not exclusively, the reaction proceeds in the absence of any solvents, catalyst, base, or any further reagents.

21: 2023/01541. 22: 2023/02/07. 43: 2025/05/30
51: B60L
71: Sandvik Mining and Construction Oy
72: JUNTUNEN, Raimo
**54: TROLLEY-ASSISTED WORK MACHINE, ARRANGEMENT AND METHOD**
00: -
Disclosed is a solution for signaling an end of a trolley line for a trolley-assisted work machine. An electric signal is caused to be transmitted along the trolley line for signaling the end of the trolley line so that the electric signal can be received by the work machine when coupled to the trolley line for receiving electric power from the trolley line.




21: 2023/01796. 22: 2023/02/14. 43: 2025/05/30
51: E21B
71: Sandvik Mining and Construction Tools AB
72: JANSSON, Tomas, NORDBERG, Anders
33: EP(SE) 31: 20196583.7 32: 2020-09-17
**54: DRILL STRING JOINT DESIGN**
00: -

A drill string rod (1) to form part of an assembly (10) of connected such drill string rods (1, 1b), the drill string rod (1) comprising: an elongate central rod portion (2) extending axially between a male end (3) and a female end (4), wherein the central rod portion (2) is hollow-cylindrical defined by an inner first diameter ($d_{rod}$) and an outer second diameter ($D_{rod}$), wherein the male end (3) comprises a spigot (5),wherein the spigot (5) comprises a base (6) projecting axially from a shoulder (7) that axially separates the spigot (5) and the central rod portion (2), wherein the female end (4) comprises a sleeve portion (8) configured to fit to the spigot (5), wherein the base (6) is provided with an outer thread and wherein the sleeve portion (8) is provided with an inner thread, wherein the inner thread corresponds to the outer thread such that the inner thread of the sleeve portion (8) is attachable to the outer thread of the base (6) of the spigot (5) of a further drill string rod (1b) of the assembly (10), wherein, in a radial plane (P) to the longitudinal axis (9) of the drill string rod (1), the base (6) of the spigot (5) is defined by an outer third diameter ($D_{spigot}$) and an inner fourth diameter ($d_{spigot}$) and the sleeve portion (8) is defined by an outer fifth diameter ($D_{sleeve}$) and an inner sixth diameter ($d_{sleeve}$), wherein the second diameter ($D_{rod}$) is between 30 and 60 mm, and wherein the six diameters mentioned are selected within specific constraints.




21: 2023/01865. 22: 2023/02/15. 43: 2025/05/30
51: G07D

71: SICPA HOLDING SA
72: MOLINA, Aldric, BREWSTER, James
33: US 31: 63/052,695 32: 2020-07-16

**54: METHOD AND SYSTEM FOR DETECTING AND AUTHENTICATING A TAGGANT IN A MARKING VIA SURFACE-ENHANCED RAMAN SPECTROSCOPY**

00: -

The invention relates to a method, and a corresponding system, capable to check whether genuine SERS or SERRS taggants having a unique characteristic surface enhancement scattering feature are present or not on a machine-readable marking applied on a value document by using a Raman spectrometer adapted to perform a Raman Spectroscopy analysis of the marking. The method according to the invention allows a reliable and fast detection of a presence of the SERS/SERRS taggants, and is particularly suitable for checking authenticity of value documents, e.g. such as banknotes, moving with respect to the Raman spectrometer with a given speed, and possibly with a high speed, or briefly exposed to the Raman spectrometer.

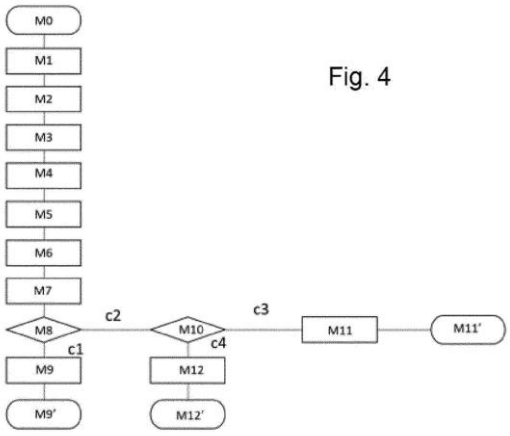



Fig. 4

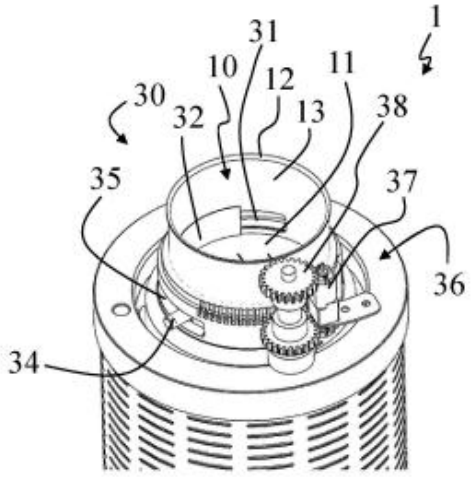
21: 2023/01993. 22: 2023/02/17. 43: 2025/06/05
51: A23F; A23N; A47J
71: Société des Produits Nestlé S.A.
72: SAVIOZ, Grégory
33: EP(CH) 31: 20187611.7 32: 2020-07-24

**54: APPARATUS AND PROCESS FOR ROASTING AND DISCHARGING COFFEE BEANS**

00: -

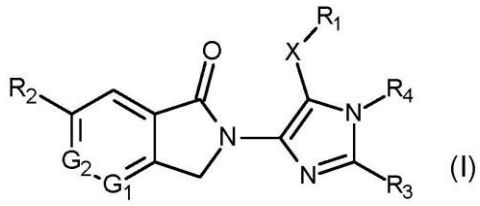
The invention relates to an apparatus (1) for more convenient roasting of coffee. The apparatus (1) in particular facilitates an improved means for discharging or ejecting the so roasted coffee beans

from the apparatus (1). The apparatus (1), which may be a home appliance apparatus, comprises a chamber (10) in which coffee beans can be received for roasting. The apparatus (1) further comprises a device for generating a current of air in order to agitate the coffee beans received by the chamber (10). The chamber (10) is delimited by a bottom (11), a top (12), and a sidewall (13) extending from the bottom (11) to the top (12), wherein the sidewall (13) comprises a discharge port (30), which is selectively moveable between a closed position and an open position, such that the current of air generated by the device can drive the coffee beans through the discharge port (30) to be discharged from the chamber (10), when the discharge port (30) is in the open position.



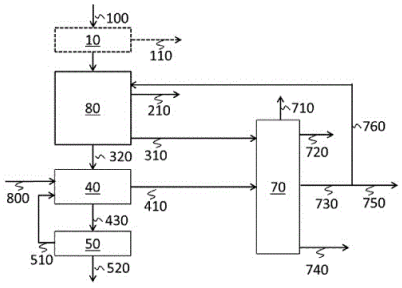

21: 2023/01996. 22: 2023/02/17. 43: 2025/06/05
51: A01N; C07D
71: Syngenta Crop Protection AG
72: SIKERVAR, Vikas, SASMAL, Swarnendu, MUEHLEBACH, Michel, STOLLER, André, EMERY, Daniel, JEANGUENAT, André, BUCHHOLZ, Anke, KURTZ, Benedikt
33: IN 31: 202011037485 32: 2020-08-31
**54: PESTICIDALLY ACTIVE HETEROCYCLIC DERIVATIVES WITH SULFUR CONTAINING SUBSTITUENTS**
00: -

Compounds of the formula (I) wherein $G_1$, $G_2$, X, $R_1$, $R_2$ $R_3$, and $R_4$ are as defined in claim 1. Furthermore, the present invention relates to agrochemical compositions which comprise compounds of formula (I), to preparation of these compositions, and to the use of the compounds or compositions in agriculture or horticulture for combating, preventing or controlling animal pests, including arthropods and in particular insects, molluscs, nematodes or representatives of the order Acarina.



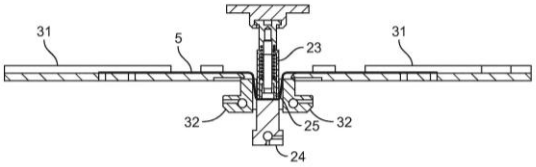

21: 2023/02148. 22: 2023/02/21. 43: 2025/08/08
51: B29B; C09C; C10G
71: IFP ENERGIES NOUVELLES
72: CLOUPET, Ann, DIGNE, Romina
33: FR 31: FR2009912 32: 2020-09-29
**54: METHOD FOR SOLVOLYSING TYRES WITH RECYCLING OF A HYDROCARBON FRACTION COMPRISING AROMATIC COMPOUNDS**
00: -

The invention relates to a method for converting worn tyres to obtain carbon black, comprising the following steps: a) sending a solid charge of worn tyres to a reaction zone in the presence of a liquid solvent to obtain a vapour effluent and a first liquid effluent comprising the carbon black; b) sending the liquid effluent to a filtration and washing unit to obtain a filtered and washed carbon black cake and a second liquid effluent; c) sending the vapour effluent and the second liquid effluent to a fractionation zone to obtain at least one hydrocarbon fraction; d) sending the hydrocarbon fraction obtained at the end of step c) into the reaction zone as a liquid solvent for use in step a); and e) drying the carbon black cake.

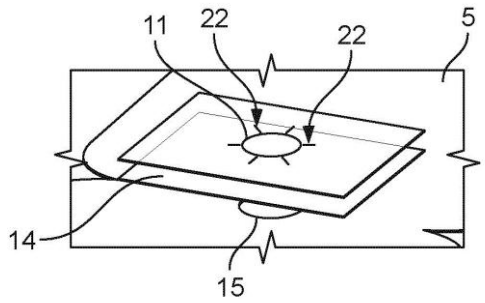



21: 2023/02166. 22: 2023/02/21. 43: 2025/06/06
51: B31B; B65B; B65D
71: Société des Produits Nestlé S.A.
72: PELLEGRINI, Stéphane, GALANTINE, Charles, MORRAL, ROCA Jose
33: EP(CH) 31: 20188733.8 32: 2020-07-30
**54: A PROCESS AND EQUIPMENT FOR MANUFACTURING A REINFORCED SACHET**

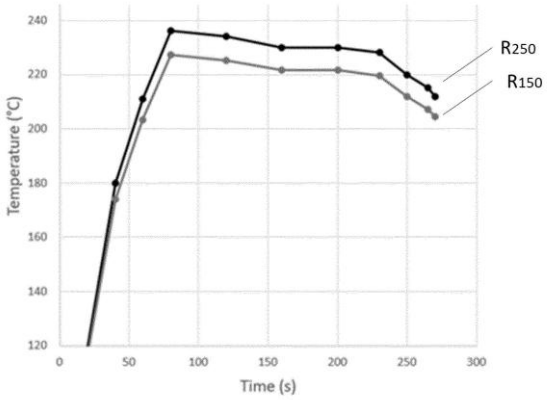
00: -
The present invention is directed to a process for manufacturing a flexible package suitable for containing a food or beverage ingredient and suitable for use with a food or beverage preparation machine, wherein said process comprises punching a flexible flat blank sheet between a plunger and a cavity that are movable relative to one another. According to the invention, the plunger has a concave end side and convex lateral sides, and the profile curvature of its end side is identical to the profile curvature of each of its lateral sides.



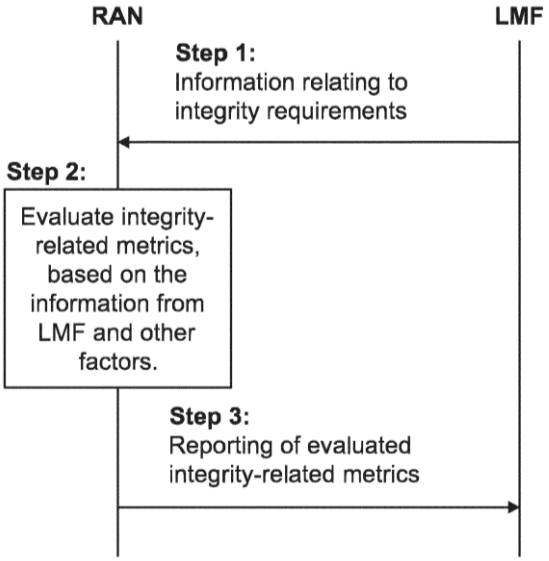

21: 2023/02167. 22: 2023/02/21. 43: 2025/06/06
51: B65D
71: Société des Produits Nestlé S.A.
72: PELLEGRINI, Stéphane, MARTIN, Olivier Jean-Michel, VISHTAL, Alexey
33: EP(CH) 31: 20188741.1 32: 2020-07-30
**54: AN IMPROVED FLEXIBLE PACKAGE FOR FOOD OR BEVERAGE PREPARATION HAVING A RIGID PART**
00: -
The present invention is directed to a closed flexible package comprising: (i) flexible or semi-flexible lateral walls (2) that form a flatten package body, and (ii) a cup-shaped bottom portion adapted to the insertion of a fluid injection element of the machine, the package body and cup-shaped bottom portion being formed from a one-piece elongated primary flat blank sheet made of flexible material, preferably a fiber-based material, that is folded in a U-shape around its transversal symmetry axis, and sealed along its lateral and upper edges, wherein said cup-shaped bottom portion is a hollow volume having a concave lower side and convex lateral sides, and the profile curvature of said lower side being identical to the profile curvature of each of said lateral sides.



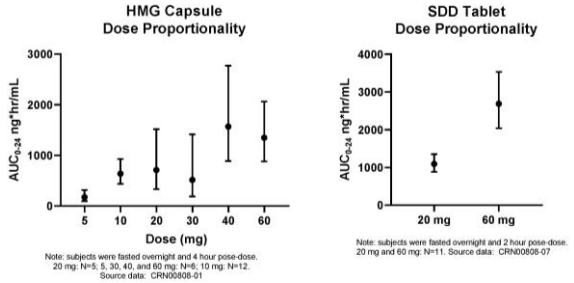

21: 2023/02171. 22: 2023/02/21. 43: 2025/06/06
51: A23F; A23N
71: Société des Produits Nestlé S.A.
72: DUBIEF, Flavien Florent, BIGLER, Nicolas
33: EP(CH) 31: 20188216.4 32: 2020-07-28
**54: METHOD FOR ROASTING COFFEE BEANS**
00: -
The invention concerns a method to determine the recipe Rym for roasting a quantity m of a type Cy coffee beans in a particular type of roasting apparatus, said recipe Rym providing setpoints (Tym@ti; ti), wherein the method comprises the steps of : - getting access to : · a rule to calculate the roasting recipe adapted to the roasting of a quantity of beans, said quantity being comprised in a list of pre-determined quantities (M, M±Δx), from any pre-existing roasting recipe adapted to the roasting of another quantity of beans in said particular type of roasting apparatus, said another quantity being comprised in the list of pre-determined quantities (M, M±Δx), and · to at least one pre-determined original roasting recipe RyMoriginal adapted to the roasting of one original pre-determined quantity Moriginal of the type Cy coffee beans,and - based on the comparison between m, the accessible original pre-determined quantity Moriginal and the accessible pre-determined quantities of the list (M, M±Δx), determining the roasting recipe Rym to be applied on said quantity m of coffee beans.



21: 2023/02272. 22: 2023/02/22. 43: 2025/06/06
51: H04W
71: NOKIA TECHNOLOGIES OY
72: KUO, Ping-Heng, BARBU, Oana-Elena, MICHALOPOULOS, Diomidis
33: US 31: 63/058,734 32: 2020-07-30
**54: REPORTING OF INTEGRITY-RELATED INFORMATION FOR POSITIONING**
00: -
Systems, methods, apparatuses, and computer program products for reporting of integrity -related information for positioning are provided.




21: 2023/03250. 22: 2023/03/01. 43: 2025/07/01
51: A61K; A61P
71: CRINETICS PHARMACEUTICALS, INC.
72: BURKE, Gerald, YATES, Ian, BULOVSKY, Hannah, KYBURZ, Kyle, TYLER, Clayton
33: US 31: 63/076,024 32: 2020-09-09
**54: FORMULATIONS OF A SOMATOSTATIN MODULATOR**
00: -
A spray-dried solid dispersion comprising: (a) 3 - [4 -(4 -amino -piperidin-l-y l)-3 -(3,5 -difluoro-phenyl)-quinolin-6 -yl] -2 -hydroxy-benzonitrile, or a pharmaceutically acceptable salt or solvate thereof; and (b) a pharmaceutically acceptable polymer; wherein said API is dispersed in a polymer matrix formed from the pharmaceutically acceptable polymer. A tablet comprising said the spray-dried solid dispersion and one or more pharmaceutical acceptable ingredients selected from the group consisting of one or more diluents, one or more disintegrants, one or more lubricants, one or more glidants. Said tablet for use in the treatment of acromegaly or neuroendocrine tumors, or both, in a human by oral administration.




21: 2023/03353. 22: 2023/03/06. 43: 2025/06/11
51: G06K; G06Q
71: Bridgestone Europe NV/SA
72: IOZIA, Francesco
33: IT 31: 102020000020770 32: 2020-09-01
**54: METHOD FOR THE MANAGEMENT OF A WAREHOUSE THAT HOUSES PNEUMATIC TYRES FITTED WITH TRANSPONDERS AND ARRANGED IN VERTICAL STACKS**
00: -
Autonomously guided robot (8) for the automatic recognition of pneumatic tyres (2) fitted with transponders (7) and arranged in a stack. The autonomously guided robot (8) has: a main body (21) that is capable of moving independently within a storage warehouse (1) wherein the stack of pneumatic tyres (7) is arranged; a reader device (9) which is provided with a reader component (10) and an antenna(11) and that is capable of reading the transponders (7); a movement unit (14) which is mounted on the main body (21) and that supports the antenna (11) for moving the antenna (11) in relation the main body (21) in a vertical direction (Z); and a control unit (24).

Fig. 2

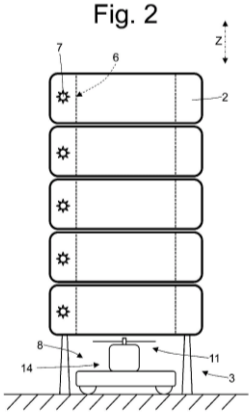
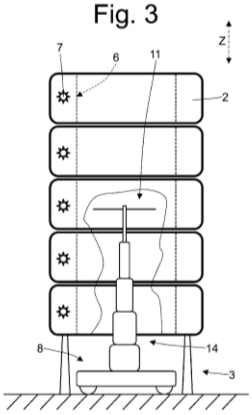


Fig. 3



21: 2023/03373. 22: 2023/03/06. 43: 2025/06/11
51: H04W
71: NOKIA TECHNOLOGIES OY
72: KOSKINEN, Jussi-Pekka, TURTINEN, Samuli, Heikki
33: US 31: 63/023,326 32: 2020-05-12
**54: SELECTION MECHANISM AND USE OF MULTIPLE UL TRANSMISSION SCHEMES**
00: -
Apparatuses and methods are disclosed. A method, comprising: by a user equipment in an inactive or idle state and in response to having uplink data that is to be transmitted, selecting which one of multiple uplink transmission schemes should be used to transmit the uplink data, wherein the multiple uplink transmission schemes comprise a regular connection establishment, a small data transmission, or a preconfigured grant; and performing the selected uplink transmission scheme to transmit the uplink data.

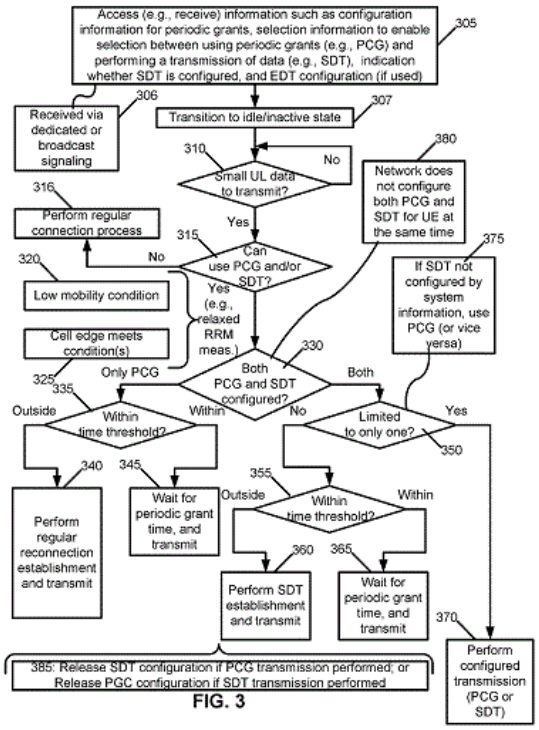
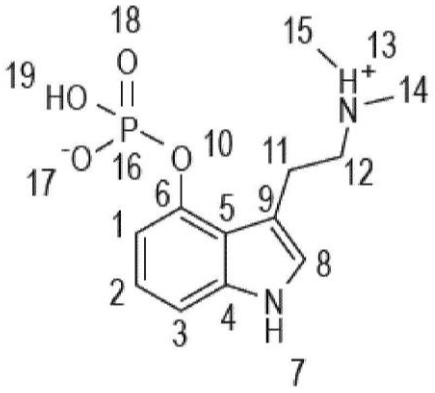
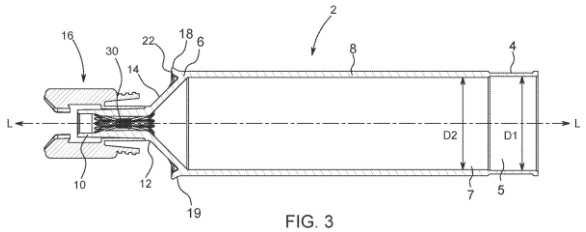


FIG. 3

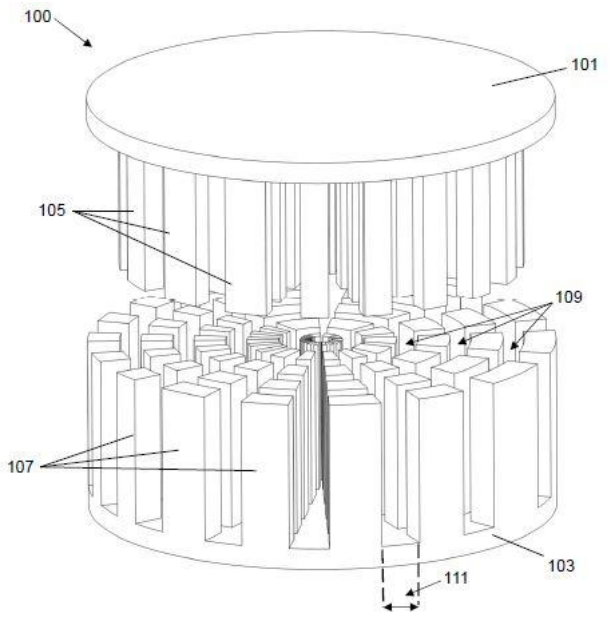
21: 2023/03456. 22: 2023/03/09. 43: 2025/06/11
51: A61K; A61P
71: Compass Pathfinder Limited
72: HICKEY, Molly Tabitha
33: US 31: 63/094,624 32: 2020-10-21
**54: USE OF BENZODIAZEPINES TO INCREASE SENSITIVITY TO PSILOCYBIN FOLLOWING A CHRONIC SSRI REGIMEN**
00: -
The disclosure provides methods for treating a patient in need thereof comprising co-administering to the patient a therapeutically-effective dose of psilocybin and one or more benzodiazepines. The present disclosure also provides methods to reduce the SSRI washout period in patients prior to administration of psilocybin therapy.




21: 2023/03491. 22: 2023/03/10. 43: 2025/06/11
51: A61M
71: Bayer HealthCare LLC
72: SPOHN, Michael, COWAN, Kevin, CAMPBELL, Patrick, CALLAN, Gerald
33: US 31: 62/706,340 32: 2020-08-11
**54: FEATURES FOR ANGIOGRAPHY SYRINGE**
00: -
A syringe including a proximal end, a distal end, and a cylindrical sidewall extending between the proximal end and the distal end, wherein the distal end comprises a conical distal end wall and a fluid nozzle at a distal end of the conical distal end wall; a cylindrical load bearing wall extending axially from the cylindrical sidewall past a proximal end of the conical distal end wall; and a plurality of radial ribs positioned around a periphery of the conical distal end wall, wherein a longitudinal axis of the plurality of radial ribs extends radially inward from the cylindrical load bearing wall towards the fluid nozzle over at least a portion of the conical distal end wall.




21: 2023/03664. 22: 2023/03/17. 43: 2025/07/01
51: H01G
71: AFRICA NEW ENERGIES LIMITED
72: LARKIN, Stephen, OMAR, Muhammad, AIMEN, Habib, KHALEEQ, Tajamal, USMAN, Muhammad, KHAN, Saad Saleem, RAW, Brendon
**54: A TUNEABLE CAPACITOR**
00: -
A tuneable capacitor is provided. The tuneable capacitor comprises at least two parallel and coaxial conductive electrode bodies. Each electrode body has a circular array of curved plates extending transversely therefrom and in the direction of an opposite electrode body with the circular array of curved plates from one electrode body being radially inwardly or outwardly spaced from the circular array of curved plates extending from the opposite electrode body. At least a portion of one of the electrode bodies is configured to be rotatable about a central axis passing through the circular arrays of curved plates so that the mutual overlap between side surfaces of the curved plates of opposite electrode bodies is varied by rotation of the portion of the electrode body relative to the other electrode body in use.

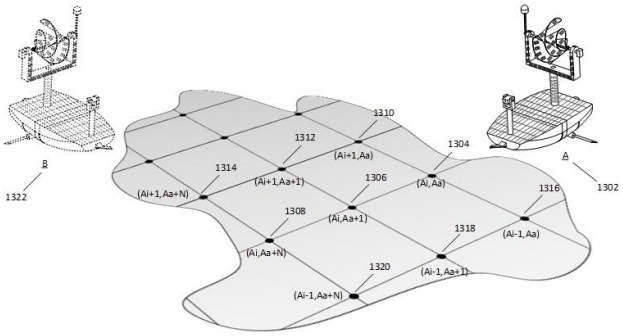



21: 2023/04034. 22: 2023/03/31. 43: 2025/06/24
51: G01N
71: AFRICA NEW ENERGIES LIMITED
72: LARKIN, Stephen, OMAR, Muhammad, TAHA, Muhammad, SIDDIQUE, Husnain, KHAN, Saad Saleem, RAW, Brendon

**54: DEVICE AND ASSOCIATED METHOD FOR CONTAMINANT DETECTION AND MAPPING**

00: -

A device comprising a buoyant body for floating on a surface of a body of water and including a first sensor and a second sensor. The first sensor receives information from the surface of the body of water which is usable to indicate detection of a contaminant in the body of water and the second sensor is configured to test a sample of the body of water to detect the contaminant therein. The device further includes a control unit which is configured to control the second sensor to test the sample when the first sensor receives information indicating detection of the contaminant so as to confirm the detection by the first sensor.

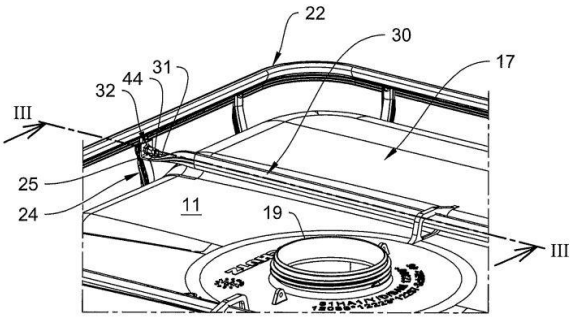



21: 2023/04071. 22: 2023/03/31. 43: 2025/07/23
51: B65D
71: PROTECHNA S.A.
72: FRIEDRICH, Stefan
33: DE 31: 10 2020 127 721.0 32: 2020-10-21

**54: TRANSPORT AND STORAGE CONTAINER FOR LIQUIDS**

00: -

The invention relates to a transport and storage container for liquids comprising a pallet-type understructure for an inner container (11) made of plastic, the inner container (11) having four side walls, a lower and an upper bottom (16, 17), a sealable filling socket (19) which is formed on the upper bottom (17) and an outlet socket which is formed on the lower portion of a side wall, said outlet socket having a tapping fitting, the transport and storage container comprising a cage (22) having horizontal and vertical bars (23, 24) made of metal for receiving the inner container (11), at least two vertical bars (24), which are disposed on opposite side walls, being connected at connecting portions (25) by means of a traverse bar (30) which extends over the upper bottom (17) of the inner container (11) and which is formed by a hollow profile, the vertical bars (24) which are connected to each other via the traverse bar (30) or the traverse bar (30) having a cross section recess for decreasing a shear force acting on the connecting screw in transition portions, which are formed adjacent to the connecting portions (25, 31).



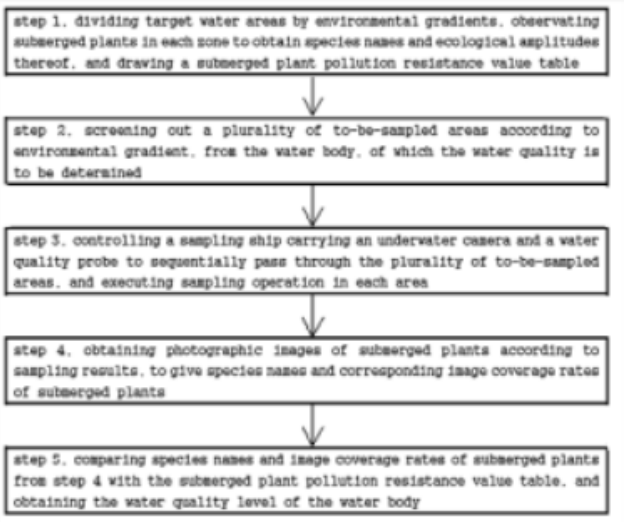

21: 2023/04080. 22: 2023/03/20. 43: 2025/07/02
51: G01N
71: CHINESE RESEARCH ACADEMY OF ENVIRONMENTAL SCIENCES
72: HE, Ping, XU, Jie, HOU, Liping, REN, Ying,
33: CN 31: CN2022102781819 32: 2022-03-21

**54: METHOD FOR JUDGING WATER QUALITY LEVEL BASED ON SUBMERGED PLANT POLLUTION RESISTANCE VALUE**

00: -

The present invention relates to a method for judging water quality level based on submerged plant pollution resistance value, which comprises the following steps of: firstly, sampling different target water areas with known water quality levels, and drawing a submerged plant pollution resistance value table on the basis of species names and ecological amplitudes of submerged plants obtained by sampling; screening out a plurality of to-be-sampled areas from the water body of which the water quality is to be judged; controlling a sampling ship carrying an underwater camera and a water quality probe to sequentially pass through the plurality of to-be-sampled areas, executing sampling operation in each area; and then obtaining species names and corresponding image coverage rates of submerged plants in the water body according to sampling results; and finally, obtaining the water quality level of the water body in combination with

the submerged plants pollution resistance value table.

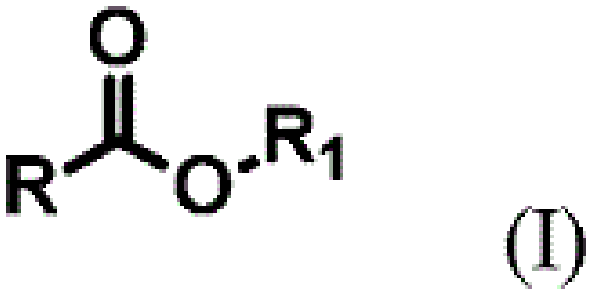



21: 2023/04233. 22: 2023/04/06. 43: 2025/06/02
51: A61K
71: ZEALAND PHARMA A/S
72: VILLADSEN, JESPER SKODBORG, GIEHM, LISE
33: EP 31: 20214558.7 32: 2020-12-16
**54: PHARMACEUTICAL COMPOSITION OF GLP-1/GLP-2 DUAL AGONISTS**
00: -
The present invention relates to pharmaceutical compositions comprising particular preservatives.

21: 2023/04234. 22: 2023/04/06. 43: 2025/06/03
51: A61K
71: ZEALAND PHARMA A/S
72: VILLADSEN, JESPER SKODBORG, GIEHM, LISE
33: EP 31: 20214559.5 32: 2020-12-16
**54: PHARMACEUTICAL COMPOSITION OF GLP-1/GLP-2 DUAL AGONISTS**
00: -
The present invention relates to pharmaceutical compositions comprising particular preservatives.

21: 2023/04235. 22: 2023/04/06. 43: 2025/06/03
51: A61K
71: ZEALAND PHARMA A/S
72: VILLADSEN, JESPER SKODBORG, GIEHM, LISE
33: EP 31: 20214562.9 32: 2020-12-16
**54: PHARMACEUTICAL COMPOSITION OF GLP-1/GLP-2 DUAL AGONISTS**
00: -
The present invention relates to pharmaceutical compositions comprising particular preservatives.

21: 2023/04288. 22: 2023/04/11. 43: 2025/05/30
51: C07C
71: NIACET CORPORATION
72: BRANNEN, Kelly. A., HARRIGAN, David, J., TUNKS, Donal, S., SOJKA, Stanley, A.
33: US 31: 63/079,683 32: 2020-09-17
**54: DIRECT CONVERSION OF ESTERS TO CARBOXYLATES**
00: -
A calcium carboxylate is prepared by reacting water, calcium oxide, and a compound of formula (I), wherein R is a C1-C3 alkyl and R1 is a C1 or C2 alkyl. The reaction solution is heated to remove an amount of a co-product from the reaction solution. The calcium carboxylate may be recovered in a solid form from the reaction solution.

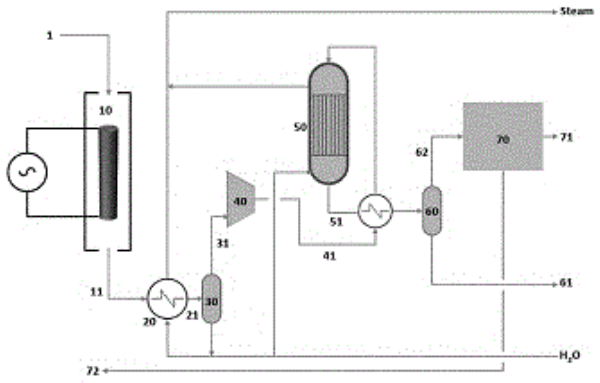



(I)

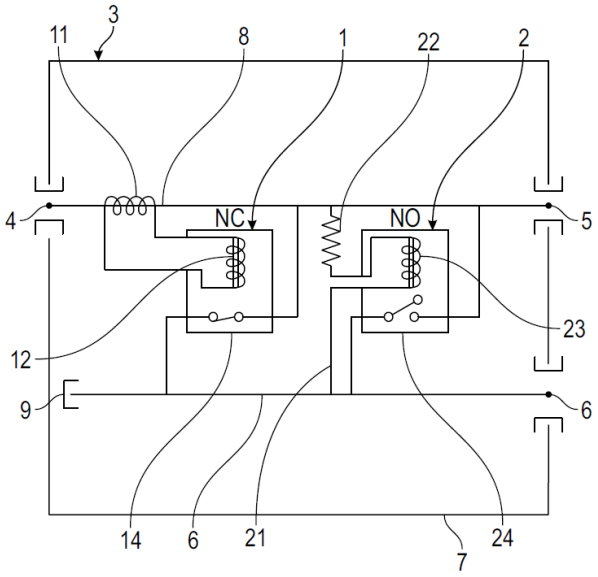
21: 2023/04295. 22: 2023/04/11. 43: 2025/06/02
51: A01N; A01P
71: AGRONATURALIS LTD
72: MILLING, RICHARD
33: GB 31: 2016365.5 32: 2020-10-15
**54: IMPROVEMENTS IN OR RELATING TO COPPER BASED PESTICIDES**
00: -
The effect of aqueous compositions of copper based fungicides is improved by including a mixture of sodium dioctyl sulfosuccinate and sodium lauryl sulphate surfactants in the aqueous composition which does not require the presence of a bicarbonate.

21: 2023/04341. 22: 2023/04/12. 43: 2025/06/02
51: C01B; C07C
71: TOPSOE A/S
72: MORTENSEN, PETER MØLGAARD, NIELSEN, CHARLOTTE STUB

33: EP 31: 20214171.9 32: 2020-12-15
**54: HYDROCARBON UPGRADING TO METHANOL AND HYDROGEN PRODUCT STREAMS**
00: -
The invention relates to a method and a system for upgrading a hydrocarbon-contain-ing feed gas to a methanol product stream and a hydrogen product stream. As part of the method/system, a synthesis gas stream is compressed to a pressure being higher than the feed pressure of the hydrocarbon feed gas, prior to being fed to a methanol synthesis unit. A hydrogen product stream is provided by separating a hydrogen rich stream, downstream the methanol synthesis unit.



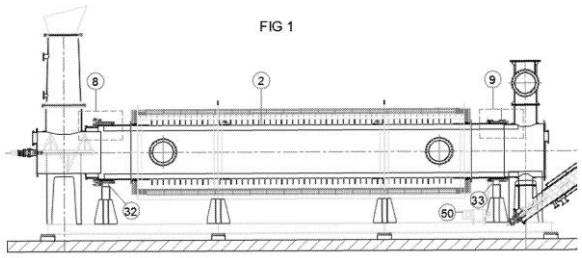

21: 2023/04507. 22: 2023/04/18. 43: 2025/08/04
51: H01B; H02H
71: ENERTECHNOS LIMITED
72: SALEHI-MOGHADAM, Mansour, HAJILOO, Ashkan Daria
33: EP 31: 21164988.4 32: 2021-03-25
33: GB 31: 2016055.2 32: 2020-10-09
**54: ELECTRICAL POWER TRANSMISSION**
00: -
A connection-and-protection device (108) for a power-transmission cable (104) having two capacitively connected conductors (105, 106) respectively connected in use to a supply cable (109) at one end and a load cable (110) at the other end is provided, the connection-and- protection device comprising: • a connection terminal (4) for connection to either of the supply or load cables, • a pair of cable terminals (5, 6) for the respective capacitively connected conductors (105, 106), • a direct connection (8) within the device between the connection terminal (4) and one of the pair of cable terminals (5), the other of the pair cable terminals (6) not normally being connected to the connection terminal (4) and • means (2) for connecting the other of the pair of cable terminals to the connection terminal to protect the capacitive connection of the two conductors, in the event that the voltage between the pair of cable terminals exceeds a threshold and • event detection means comprising means for detection the voltage between the pair of cable terminals (22) exceeding a threshold.




21: 2023/04591. 22: 2023/04/20. 43: 2025/06/05
51: C07K; C12N
71: AKESO BIOPHARMA, INC, AKESO PHARMACEUTICALS, INC.
72: LI, BAIYONG, XIA, YU, WANG, ZHONGMIN
33: CN 31: 202011152518.9 32: 2020-10-23
**54: ANTI-CD73 ANTIBODY AND USE THEREOF**
00: -
An anti-CD73 antibody and the use thereof. The heavy chain variable region of the antibody comprises HCDR1-HCDR3 having amino acid sequences as shown in SEQ ID NOs: 15-17; and the light chain variable region of the antibody comprises LCDR1-LCDR3 having amino acid sequences as shown in SEQ ID NOs: 18-20.

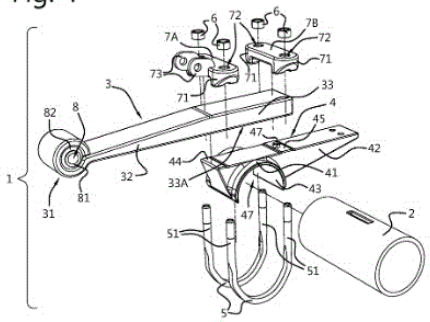
21: 2023/04652. 22: 2023/04/21. 43: 2025/07/02
51: F16J; F27B
71: Tecnored Desenvolvimento Tecnologico S.A.
72: BRASIL, Ludmila Lopes Nascimento, DE OLIVEIRA, Ronald Lopes, GONÇALVES, Guilherme Francisco, SOARES, Álvaro Guedes, FRÓIS,

Fabrício Tinôco, DA SILVA, Ezequiel, POTTER, Stephen Michael
33: BR 31: BR102020019375-9 32: 2020-09-24
**54: SEALING SYSTEM WITH AUTOMATIC COMPENSATION FOR THERMAL EXPANSION FOR A ROTARY CYLINDRICAL REACTOR**
00: -
The present invention relates to sealing systems with automatic compensation for thermal expansion. In this context, the present invention provides a sealing system with automatic compensation for thermal expansion for a rotary cylindrical reactor (2) comprising (a) a first automatic compensation portion (8) positioned at a first end of the rotary cylindrical reactor (2), the first automatic compensation portion (8) comprising (a.1) a guide ring (80) fixed to the supporting structure of the rotary cylindrical reactor (2), (a.2) an axially sliding receiving ring (84) adjacent to the guide ring (80), the axially sliding receiving ring (84) being capable of sliding relative to the guide ring (80) in the axial direction, and (a.3) an annular first bearing race (22) fixed to the shell of the rotary cylindrical reactor (2) and resting on a first supporting roller (32), the first bearing race (22) being capable of sliding in the radial direction relative to the axially sliding receiving ring (84) and rigidly connected thereto in the axial direction of the rotary cylindrical reactor (2); and (b) a second automatic compensation portion (9) positioned at a second end of the rotary cylindrical reactor (2), opposite the first, the second automatic compensation portion (9) comprising (b.1) a receiving ring (94) fixed to the supporting structure of the rotary cylindrical reactor (2) and (b.2) an annular second bearing race (23) fixed to the shell of the rotary cylindrical reactor (2) and resting on a second supporting roller (33), the second bearing race (23) being capable of sliding rotatably relative to the fixed receiving ring (94) and capable of sliding in the axial direction relative thereto.




21: 2023/04703. 22: 2023/04/24. 43: 2025/07/24
51: B60G; F16F
71: VDL WEWELER B.V.
72: SCHRIER, Tom
33: NL 31: 2027187 32: 2020-12-21
**54: TRAILING ARM ASSEMBLY**
00: -
A trailing arm assembly (1) for an air sprung wheel axle suspension comprises a front arm part (3) and a rear arm part (4). A flexible trailing arm (3) pivotally connected to a bearing bracket (9) of a vehicle chassis forms the front arm part. An axle pad (41) and an air spring support arm (42) form the rear arm part. The axle pad (41) is arranged between an attachment portion (33) of the trailing arm and an axle body (2) and defines an axle seat for the axle body (2). Clamping means (5, 6, 7) clamp the axle body (2), the axle pad (41) and the attachment portion (33) of the trailing arm (3) together. The air spring support arm (42) and the axle pad (41) form an integral part (4), i.e. the rear arm part. An air spring (11) is located between the support arm (42) and the chassis.

Fig. 4




21: 2023/04734. 22: 2023/04/24. 43: 2025/06/05
51: C07D; A61K; A61P
71: SHANGHAI YAO YUAN BIOTECHNOLOGY CO., LTD.
72: LIU, DANYANG, XU, CONG, MELVIN JR, LAWRENCE S, WEI, XIONG, LI, TONGRUEI RAYMOND, FAN, JIEQING, PAN, YANFANG, DANG, HUAIXIN, LICHENSTEIN, HENRI, XU, TIAN
33: CN 31: PCT/CN2020/117436 32: 2020-09-24
**54: ALPHA PROTEIN KINASE 1 INHIBITORS AND METHODS OF USE**
00: -

Provided are compounds of Formula I, compositions and methods for their use as inhibitors of alpha-kinase 1 (ALPK1).

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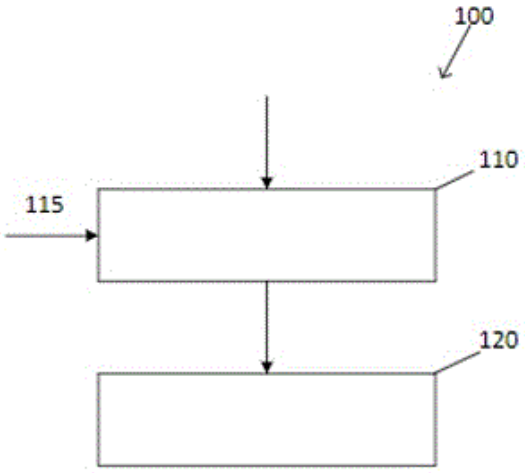
21: 2023/04912. 22: 2023/05/02. 43: 2025/06/13
51: G06Q
71: TOPSOE A/S
72: WILBEK, FIE ALICE HALLKVIST, BOJSEN, ANDERS ERIK, VERDIER, SYLVAIN, RASMUSSEN, HENRIK WOLTHERS, GALLARDO, THOR, THAKKER, PRIYESH, ALKILDE, OLE FREJ, HOVGAARD, LIV, MADSEN, MATHIAS BØJE
33: US 31: 63/136,049 32: 2021-01-11
33: US 31: 63/130,181 32: 2020-12-23
**54: COMPUTER-IMPLEMENTED MONITORING METHODS AND SYSTEMS FOR A PLANT PRODUCING CHEMICALS AND FUELS UTILIZING CARBON CAPTURE**
00: -
The disclosure relates to a computer-implemented monitoring method for a blue plant, the plant being configured for production of a blue chemical or fuel product and comprising a plurality of means for registering parameters of the production process, preferably a plurality of sensors in the plant, e.g., along a reactor, wherein carbon capture is utilized to improve the carbon footprint of the product. The method further comprises calculating a sustainability score from the received sensor data. The disclosure further relates to a computer-implemented monitoring method and system, a data-processing system and a blue plant comprising the above.

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21: 2023/04932. 22: 2023/05/03. 43: 2025/06/18
51: C12N C12P
71: CJ CHEILJEDANG CORPORATION
72: CHOI, Su Jin, YANG, Sunyoung, LEE, Kwang Woo
33: KR 31: 10-2020-0156903 32: 2020-11-20
**54: MICROORGANISM HAVING ENHANCED L-GLUTAMINE PRODUCING ABILITY, AND L-GLUTAMINE PRODUCING METHOD USING SAME**
00: -
The present application relates to a microorganism having enhanced L-glutamine producing ability, and an L-glutamine producing method using same.

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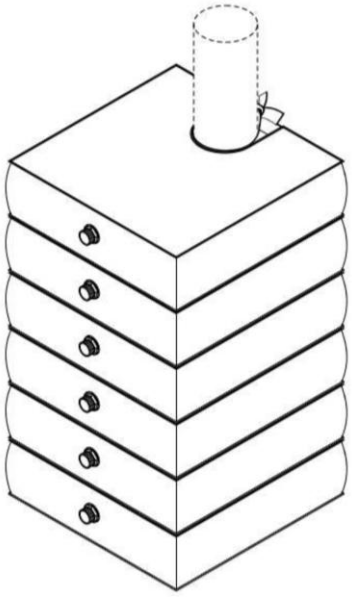
21: 2023/05055. 22: 2023/05/08. 43: 2025/08/13
51: B65D; E21D
71: Timrite (Pty) Ltd
72: Lebogang Mogorosi
33: ZA 31: 2022/03478 32: 2022-03-25
**54: SIDE SUPPORTED MINING PACK**
00: -
This invention relates to a particulate material retaining bag constituted by a closed bag constructed of a fabric suitable for retaining an initially flowable particulate material therein. The bag includes a reclosable filling inlet, constituted by a non-return filling valve, by means of which the flowable particulate material is introduced into the bag. The bag is dimensioned and constructed to assume a cubiform shape, both in idealised form and when pumped and inflated. The bag includes a locating channel formed within one of the side panels which extends from a upper panel of the bag to a lower panel of the bag. The locating channel is shaped and dimensioned at least partially to envelop a discrete cooperating bag positioning body against which the bag is juxtaposed in use. The bag is provided with externally disposed strap-form tie means configured, in use, to secure the bag to the bag positioning body.

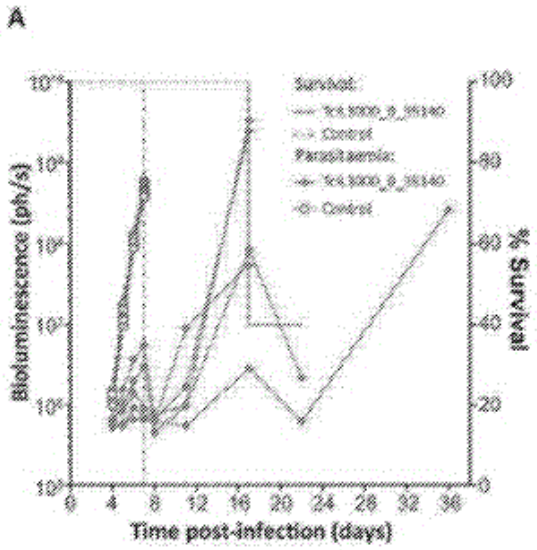


21: 2023/05216. 22: 2023/05/11. 43: 2025/06/13
51: A61K; A61P; C07K
71: GENOME RESEARCH LIMITED
72: WRIGHT, GAVIN, AUTHEMAN, DELPHINE
33: GB 31: 2016270.7 32: 2020-10-14

**54: NOVEL TRYPANOSOMAL VACCINE**

00: -

The present invention relates to a trypanosomal vaccine comprising an FLA1 binding protein, as well as to pharmaceutical compositions comprising said vaccine and their uses in vaccination to prevent or treat trypanosomal infection in a mammal. Thus, also provided are a method of preventing or treating trypanosomal infection comprising administering said vaccine and a kit of parts comprising a medical instrument or other means for administering.



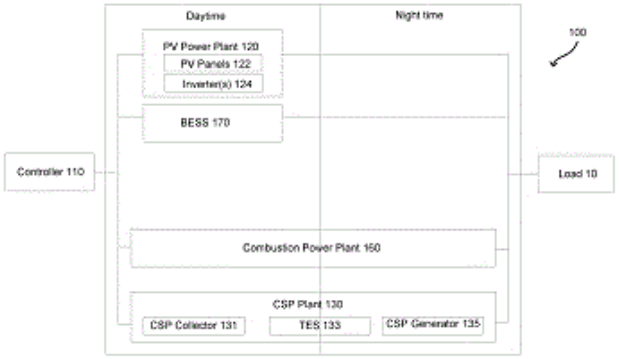

21: 2023/05255. 22: 2023/05/12. 43: 2025/06/12
51: H02J; H02S; G06Q; G01R
71: VAST SOLAR PTY LTD
72: MENZIES, BRIAN WILLIAM, HARDIMAN, LUKE ALEXANDER ARTHUR
33: AU 31: 2020903758 32: 2020-10-16

**54: HYBRID ELECTRICAL POWER GENERATION SYSTEM AND METHOD OF SIMULATING THE SAME**

00: -

A method of operating a hybrid electrical power generation system (100) to supply an electrical demand, the hybrid electrical power generation system (100) having a battery energy storage system (BESS) (170), a renewable energy RE power plant (120), and a combustion power plant (160) having a supply delay, the supply delay being a time associated with signalling the combustion power plant (160) to start-up to the combustion power plant (160) being capable of supplying the electrical demand, the method comprising: determining a state of charge of the BESS (170); in response to determining that the RE power plant (120) is generating electrical power and the state of charge of the BESS (170) is at least at a secure level (176) capable of supplying the electrical demand during the supply delay: dispatching the RE power plant (120) to supply at least some of the electrical demand; and in response to determining that the RE power plant (120) is generating electrical power and the state of charge of the BESS (170) is at an insecure level that is incapable of supplying the electrical demand during the supply delay:

dispatching the RE power plant (120) to charge the BESS (170).

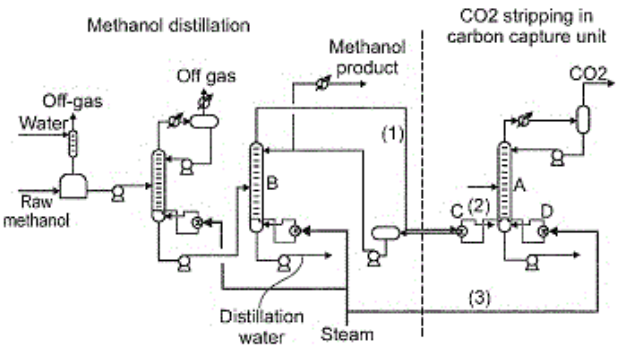



21: 2023/05330. 22: 2023/05/16. 43: 2025/06/13
51: B01D; C01B; C07C; C10K; F25J
71: TOPSOE A/S
72: TJÄRNEHOV, EMIL ANDREAS
33: EP 31: 21151426.0 32: 2021-01-13

**54: METHOD AND SYSTEM FOR RECYCLING OF DISTILLATION ENERGY IN PLANTS WITH CO2 IMPORT FROM CARBON CAPTURE**

00: -

The present invention refers to a method, system and plant for the reduction of energy consumption, preferably a green methanol plant. The present invention provides for a reduced overall energy consumption of the green plant - re-use of the distillation energy into the stabilizer column and $CO_2$ reboiler in carbon capture unit - and thereby a reduced electrical import for heater/boiler or reduced fuel consumption in steam generation.

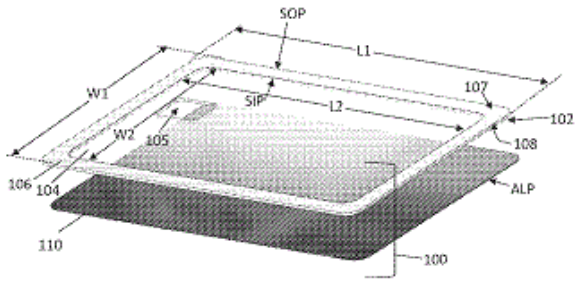



21: 2023/05331. 22: 2023/05/16. 43: 2025/06/17
51: G06K
71: COMPOSECURE, LLC
72: LOWE, ADAM, POTOCKI, KRISTIN
33: US 31: 63/107,698 32: 2020-10-30

**54: TRANSACTION CARD WITH PARTIAL GLASS LAYER**

00: -

A transaction card having a partial glass layer including an interior glass member connected to a non-glass frame. The frame defines opposite planar surfaces, has an outer periphery coextensive with the outer periphery of the card, and has a frame inner periphery spaced radially inward from the frame outer periphery. The frame inner periphery defines an interior area occupied by the glass member. The transaction card further includes at least one additional layer having a periphery coextensive with the periphery of the card, and a payment module configured for contactless operation or dual interface contact/ contactless operation.

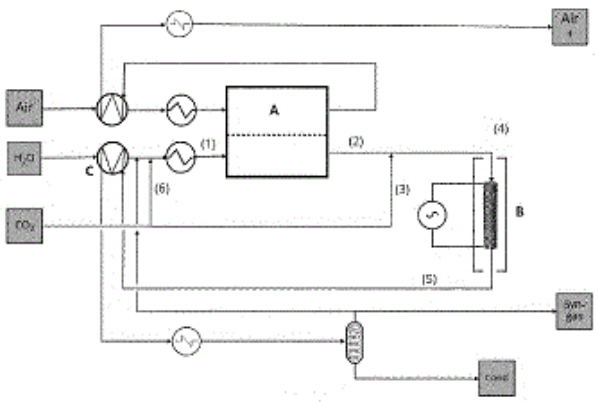



21: 2023/05332. 22: 2023/05/16. 43: 2025/06/13
51: C01B; C25B; C07C
71: TOPSOE A/S
72: MORTENSEN, PETER MØLGAARD, BØGILD HANSEN, JOHN
33: EP 31: 20216623.7 32: 2020-12-22

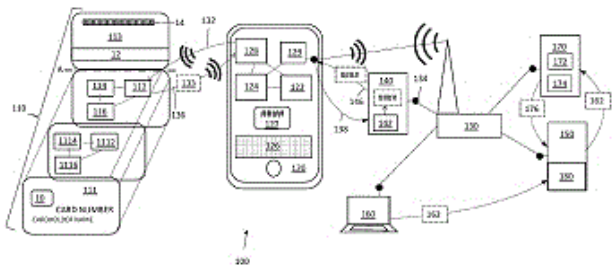
**54: METHOD AND PLANT FOR PRODUCING SYNGAS**

00: -

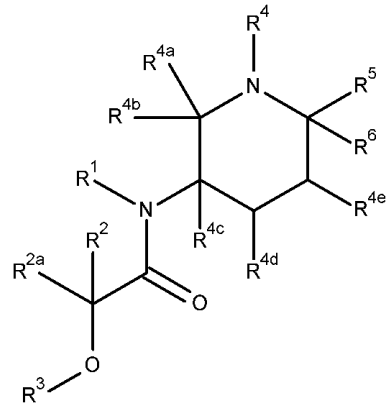
The present invention describes a method of combining electrolysis, preferably SOEC with reforming, preferably eSMR, to produce a carbon monoxide (CO) rich synthesis gas, providing several synergies and overcoming some limitations of the SOEC technology.




21: 2023/05334. 22: 2023/05/16. 43: 2025/06/13
51: G06Q
71: COMPOSECURE, LLC
72: LOWE, ADAM, NUZUM, TODD
33: US 31: 63/115,888 32: 2020-11-19
**54: METHOD AND SYSTEM FOR GENERATING A DYNAMIC CARD VERIFICATION VALUE FOR PROCESSING A TRANSACTION**
00: -
Systems, methods, transaction cards, mobile devices, processors, and computer memory programmed with machine-readable instructions, for providing a dynamic Card Verification Value (dCVV) to a user of a transaction card. A mobile device associated with the user and with the transaction card initiates a non-payment near field communication (NFC) with the transaction card, receives a message from the transaction card in the non-payment NFC communication, transmits a prompt to an IP address or web address over a global computer information network, and receives a secure communication from containing the dCVV from a server accessible from the IP address or web address in response to the prompt. The dCVV code is then provided to the user. In embodiments, the non-payment NFC may be initiated via a card tap, a user interface, or a communication from a website.

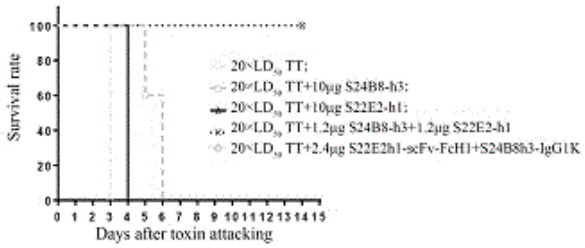


21: 2023/05373. 22: 2023/05/17. 43: 2025/06/18
51: A61P C07D A61K
71: EVOTEC INTERNATIONAL GMBH
72: ATTON, Holly, Victoria, SABBAH, Mohamad
33: EP 31: 20203309.8 32: 2020-10-22
**54: MODULATORS OF THE INTEGRATED STRESS RESPONSE PATHWAY**
00: -
The present invention relates to compounds of formula (I) or pharmaceutically acceptable salts, solvates, hydrates, tautomers or stereoisomers thereof, wherein $R^1$, $R^2$, $R^{2a}$, $R^3$, $R^4$, $R^{4a}$, $R^{4b}$, $R^{4c}$, $R^{4d}$, $R^{4e}$, $R^5$, $R^6$ have the meaning as indicated in the description and claims. The invention further relates to pharmaceutical compositions comprising said compounds, their use as medicament and in a method for treating or preventing of one or more diseases or disorders associated with integrated stress response.

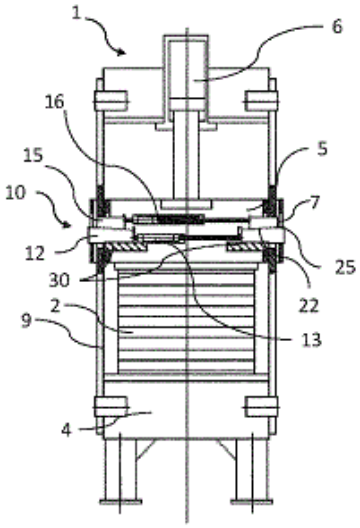

(I)

21: 2023/05429. 22: 2023/05/18. 43: 2025/06/24
51: C07K; A61K; A61P
71: BEIJING WISDOMAB BIOTECHNOLOGY CO., LTD, GENRIX (SHANGHAI) BIOPHARMACEUTICAL CO., LTD., CHONGQING GENRIX BIOPHARMACEUTIAL CO., LTD.
72: LIU, ZHIGANG, ZHOU, XIAOWEI, LIU, YULAN, HAO, XIAOBO, HU, JUNJIE
33: CN 31: 202011128926.0 32: 2020-10-21
**54: ANTIBODY FOR TETANUS TOXIN AND USE THEREOF**
00: -
Provided are a bispecific antibody and a monoclonal antibody for a tetanus toxin, and uses of the antibodies. The bispecific antibody contains a first antigen-binding fragment and a second antigen-binding fragment which bind to different epitopes of the tetanus toxin, and has activity of neutralizing the tetanus toxin. The monoclonal antibody binds to the

tetanus toxin, and has activity of neutralizing the tetanus toxin.




21: 2023/05510. 22: 2023/05/22. 43: 2025/06/24
51: B01D
71: METSO OUTOTEC FINLAND OY
72: LI, ZHIHONG, ILLI, MIKA, YAN, HUAN
33: CN 31: 202011618687.7 32: 2020-12-31
**54: FILTER PRESS LOCKING MEANS**
00: -
A filter press (1) comprising a stationary frame (9), in which a head member (4), a movable tail member (5), an actuator (6) for opening and closing movement of the filter press, and a plurality of filter plates (2) arranged between head member (4) and the movable tail member (5) are arranged, wherein the filter press further comprises a locking arrangement (10) for pressing the filter plates against each other, is disclosed. According to the disclosure the locking arrangement (10) comprises at least one locking member (12) having a first wedge-like surface (22), said at least one locking member (12) is arranged to be movable in a direction perpendicular to the opening and closing movement of the filter press (1), wherein the first wedge-like surface (22) of the at least one locking member (12) is arranged to interact with a corresponding opposite second wedge-like surface (25) provided in the filter press (1), and at least one locking actuator (13) arranged to move the at least one locking member (12) so that the first wedge-like surface (22) can interact with the opposite second wedge-like surface (25) to thereby press the filter plates (2) against each other, and wherein the locking arrangement (10) is arranged to interact with a supporting surface (88) in the stationary frame (9) and a corresponding supporting surface (77) in the movable tail member (5).




21: 2023/05587. 22: 2023/05/24. 43: 2025/06/19
51: E04H; E01F
71: AFFIRM MANUFACTURING SERVICES (PROPRIETARY) LIMITED T/A ROTOTANK
72: STANLEY, TERRENCE CLIVE
33: ZA 31: 2022/02686 32: 2022-03-07
**54: BARRIER ARRANGEMENT**
00: -
The invention relates to a barrier, and more particularly a traffic, pedestrian or animal barrier aimed at regulating the movement of an object, human or animal. The barrier includes a base section, a barrier section standing proud from the base section, and a trough formation which is provided in at least part of the base section. The invention also extends to a barrier arrangement including a plurality of barriers as described above.

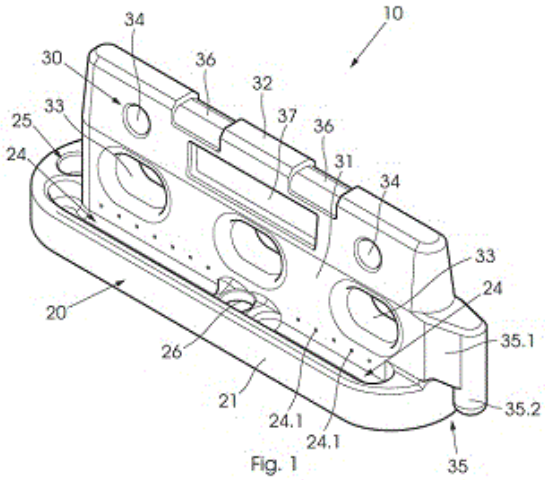
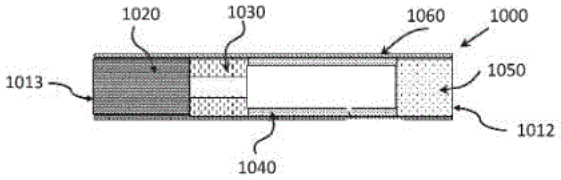
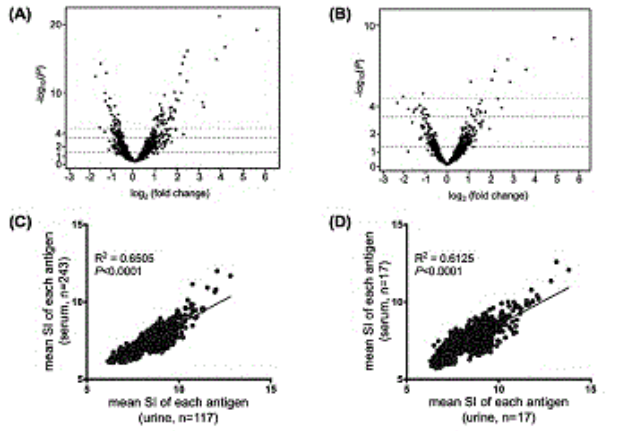


Fig. 1

21: 2023/05636. 22: 2023/05/25. 43: 2025/08/07
51: A24B; A24D; A24F
71: PHILIP MORRIS PRODUCTS S.A.
72: BOVET, Lucien, GOEPFERT, Simon, HILFIKER, Aurore, LANGLET, Delphine
33: EP 31: 20204612.4 32: 2020-10-29
**54: NOVEL AEROSOL-GENERATING SUBSTRATE**
00: -
An aerosol-generating substrate for an aerosol-generating article, the aerosol-generating substrate comprising a homogenised tobacco material, the homogenised tobacco material comprising dried green tobacco material, an aerosol former and a binder. The homogenised tobacco material has an aerosol former content of between 5 percent by weight and 55 percent by weight, on a dry weight basis.




21: 2023/05647. 22: 2023/05/25. 43: 2025/06/24
51: G01N
71: MERCK PATENT GMBH
72: GRECO, BEATRICE, OEUVRAY, CLAUDE, LOUKAS, ALEX, PEARSON, MARK, SOTILLO-GALLEGO, JAVIER
33: EP 31: 20204189.3 32: 2020-10-27
**54: PROTEINS FOR THE DETECTION OF SCHISTOSOMA INFECTION**
00: -
The invention pertains to the field of diagnostic tools for the detection of Schistosoma infection. The invention pertains to proteins derived from Schistosoma Haematobium antigens, useful alone or in combination for the detection of anti-Schistosoma antibodies in biological samples, and thus for the diagnosis of Schistosoma infection in humans.




21: 2023/05650. 22: 2023/05/25. 43: 2025/06/24
51: B65H
71: SCAN COIN AB
72: WALLMAN-CARLSSON, VICTOR, JÖNSSON, MANFRED
33: EP 31: 20207124.7 32: 2020-11-12
**54: A BANKNOTE STACK TRANSPORT ARRANGEMENT AND A CASH HANDLING MACHINE**
00: -
The disclosure relates to a banknote stack transport arrangement (100) for a cash handling machine (10), comprising: a first structure (110) presenting a first banknote engagement portion (116) being displaceable in relation to the first structure; a second structure (120) presenting a second banknote engagement portion (126) being displaceable in relation to the second structure; wherein at least one of the first and second structures is pivotally arranged at its first end (112) so as to be swingably movable between a closed configuration and an open configuration; and a movable banknote engager (150) configured to press the banknote stack towards the first and/or the second banknote engagement portion; wherein the banknote stack transport arrangement is configured to transport said banknote stack (30) out from the temporary banknote receptacle (130) by displacing said first (116) and second (126) banknote engagement portions and by moving the banknote engager (150) to an active position (P2).

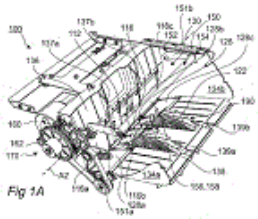


Fig 1A

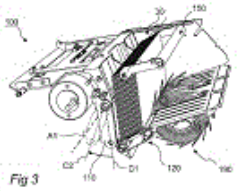


Fig 3

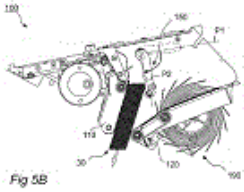
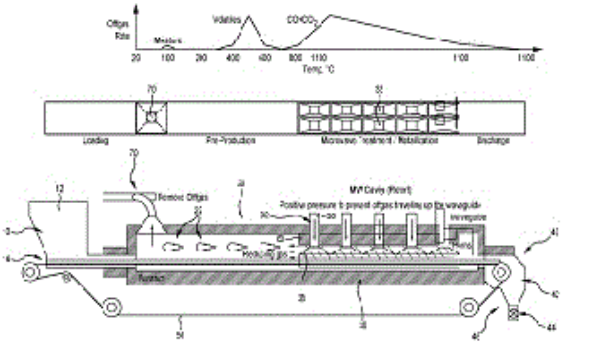


Fig 5B

21: 2023/05697. 22: 2023/05/26. 43: 2025/06/24
51: C21B; C22B
71: TECHNOLOGICAL RESOURCES PTY. LIMITED
72: FARR, IAIN WILLIAM, DRY, RODNEY JAMES, BUCKLEY, MICHAEL
33: AU 31: 2020904332 32: 2020-11-24
**54: BIOMASS DIRECT REDUCED IRON**
00: -
A method and an apparatus method for producing direct reduced iron (DRI) from iron ore using biomass as a source of reductant and as a heating source of the iron ore and electromagnetic energy as a further heating source in a furnace having multiple zones. The zones include a preheat zone and a reduction zone between an inlet for briquettes of iron ore and biomass and an outlet for direct reduced iron. The method includes counter-current movement of (a) briquettes of iron ore and biomass in a direction from the inlet to the outlet and (b) combustible gases in an opposite direction in the furnace.



21: 2023/05746. 22: 2023/05/29. 43: 2025/06/24
51: A01H
71: ENZA ZADEN BEHEER B.V.
72: KOOREVAAR, GERARD NIJS, BRIGA, ROY, ROOBEEK, ILJA, DE LANGE, BRENDA JOHANNA MARIA
**54: CHLOROSIS RESISTANT CYTOPLASMIC MALE STERILE BRASSICA PLANTS**
00: -
The present invention relates to a chlorosis resistant cytoplasmic male sterile (CMS) Brassica rapa plant and methods of producing the chlorosis resistant CMS Brassica rapa plant. The present invention further relates to progeny, a descendent plant, and/ or seed and/ or plant part of the chlorosis resistant CMS Brassica rapa plant.

21: 2023/05799. 22: 2023/05/30. 43: 2025/06/19
51: G01B; G06T; G06N
71: CATERPILLAR INC.
72: OBLAK, TOD A, RAM, SHASTRI, STRINGER, JEFF T, SEKHARAN, SRI, MIANZO, LAWRENCE A, HARTMAN, MARK E
33: US 31: 17/112,932 32: 2020-12-04
**54: SYSTEM AND METHOD OF DIRECTING THREE DIMENSIONAL SCANNING**
00: -
An intelligent three dimensional scanner system mountable on a movable machine (10), including three dimensional scanner (32), a camera (40), and control circuitry (201). The control circuitry (201) is configured to receive three dimensional point data from the three dimensional scanner (S903), receive two dimensional image data from the camera (S903), input the two dimensional image data to a machine learning model, which identifies objects in the two dimensional image data (S909), fuse the three dimensional point data with the identified objects in the two dimensional image data in order to

identify the objects in the three dimensional point data (S911), and control a scan pattern to direct scanning resolution of the three dimensional scanner based on the identified objects (S1105).

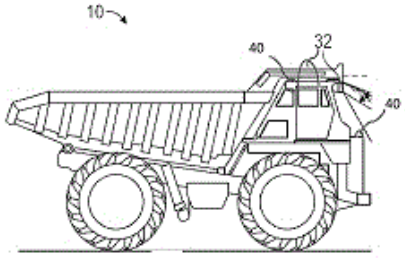



FIG. 1A

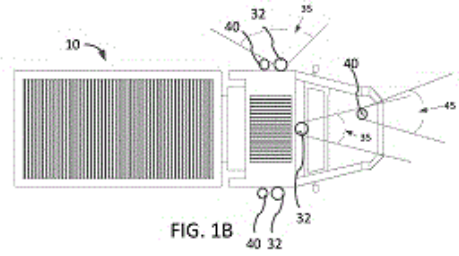
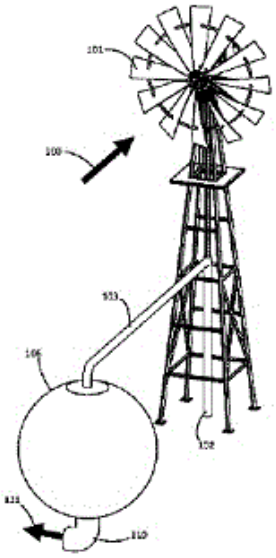


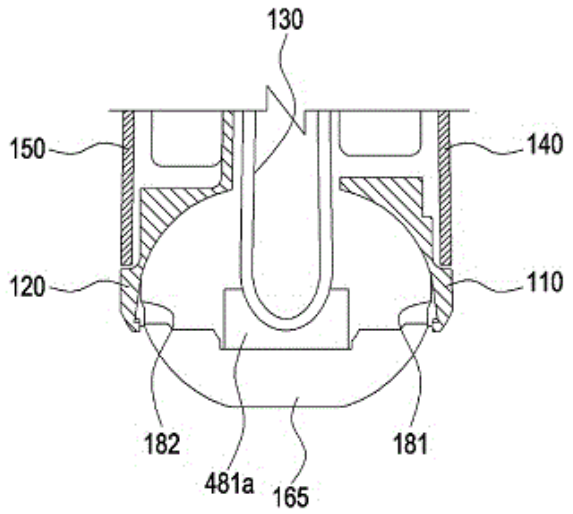

FIG. 1B

21: 2023/06124. 22: 2023/06/09. 43: 2025/06/19
51: F03B; G05F; H02J
71: LONE GULL HOLDINGS, LTD.
72: THORSON, IVAR LEE, SHELDON-COULSON, GARTH ALEXANDER, MOFFAT, BRIAN LEE, PLACE, DANIEL WILLIAM
33: US 31: 63/087,387 32: 2020-10-05
33: US 31: 63/004,299 32: 2020-04-02
33: US 31: 62/911,932 32: 2019-10-07
**54: RESERVOIR-REGULATING DIGITAL LOAD CONTROL**
00: -
Disclosed is an apparatus that adapts the rate of its computational work to match the availability of energy harvested from a stochastic energy source; and, with respect to some types of energy harvesting, regulates the rate of energy capture, the rate of energy conversion, and the rate of consumption of stored potential energy, through its alteration, regulation, and/or adjustment, of that same computational work load.



21: 2023/06238. 22: 2023/06/14. 43: 2025/06/19
51: G06F
71: SAMSUNG ELECTRONICS CO., LTD.
72: PARK, JUNGWON, KANG, YOUNGMIN, KIM, SUNGHUN, KIM, YUNSIK, KIM, JINGOOK, KIM, CHIJOON, LA, HYOSUNG, LEE, SUMAN, LEE, SEUNGJOON, CHOI, SEUNGWHEE, CHOI, JUNYOUNG
33: KR 31: 10-2020-0002991 32: 2020-01-09
33: KR 31: 10-2019-0064725 32: 2019-05-31
33: KR 31: 10-2019-0087766 32: 2019-07-19
33: KR 31: 10-2019-0108733 32: 2019-09-03
**54: PORTABLE COMMUNICATION DEVICE INCLUDING SEALING MEMBER**
00: -
A portable communication device or electronic device is provided. The communication device includes a housing including a first housing structure, a second housing structure, and a hinge cover positioned between at least a portion of the first housing structure and at least a portion of the second housing structure, a flexible display at least partially received in the housing and including a first portion corresponding to the first housing structure, a second portion corresponding to the second housing structure, and a third portion corresponding to the hinge cover, a hinge structure positioned between the third portion of the flexible display and the hinge cover and connected with the first housing structure and the second housing structure, and at least one sealing member positioned between the third

portion of the flexible display and the hinge cover and contacting the hinge cover.




21: 2023/06380. 22: 2023/06/20. 43: 2025/06/11
51: C12N
71: PRESIDENT AND FELLOWS OF HARVARD COLLEGE
72: CHURCH, GEORGE M, MALI, PRASHANT, YANG, LUHAN
33: US 31: 61/738,355 32: 2012-12-17
33: US 31: 61/779,169 32: 2013-03-13
**54: RNA-GUIDED HUMAN GENOME ENGINEERING**
00: -
A method of altering a eukaryotic cell is provided including transfecting the eukaryotic cell with a nucleic acid encoding RNA complementary to genomic DNA of the eukaryotic cell, transfecting the eukaryotic cell with a nucleic acid encoding an enzyme that interacts with the RNA and cleaves the genomic DNA in a site specific manner, wherein the cell expresses the RNA and the enzyme, the RNA binds to complementary genomic DNA and the enzyme cleaves the genomic DNA in a site specific manner.

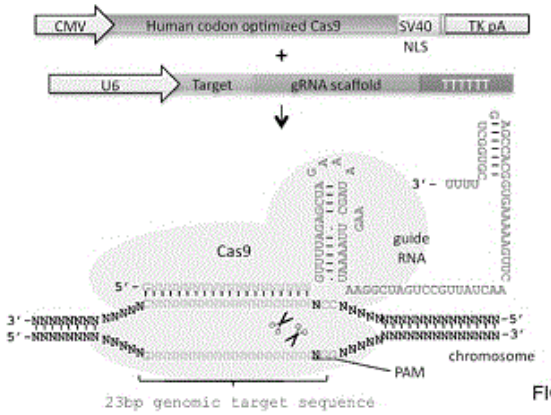
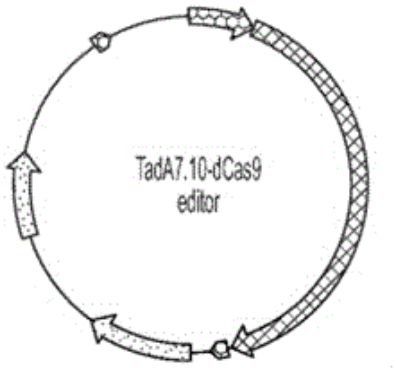


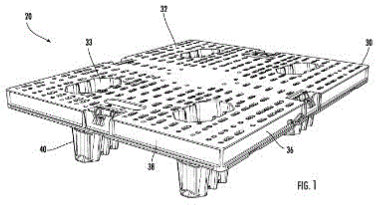
FIG. 1A

21: 2023/06673. 22: 2023/06/29. 43: 2025/06/19
51: C12N
71: BEAM THERAPEUTICS INC.
72: SLAYMAKER, IAN, GAUDELLI, NICOLE, YU, YI, ZETSCHE, BERND, BORN, DAVID A, LEE, SEUNG-JOO, PACKER, MICHAEL
33: US 31: 62/852,228 32: 2019-05-23
33: US 31: 62/852,224 32: 2019-05-23
33: US 31: 62/805,271 32: 2019-02-13
33: US 31: 62/966,526 32: 2020-01-27
33: US 31: 62/931,747 32: 2019-11-06
33: US 31: 62/805,277 32: 2019-02-13
33: US 31: 62/941,569 32: 2019-11-27
33: US 31: 62/931,722 32: 2019-11-06
**54: COMPOSITIONS AND METHODS FOR TREATING HEMOGLOBINOPATHIES**
00: -
The present invention features compositions and methods for editing deleterious mutations associated with hemoglobinopathies, such as sickle cell disease (SCD). In particular embodiments, the invention provides methods for correcting mutations in a beta globin polynucleotide using modified adenosine base editors termed "ABE8" having unprecedented levels (e.g., >60-70%) of efficiency.



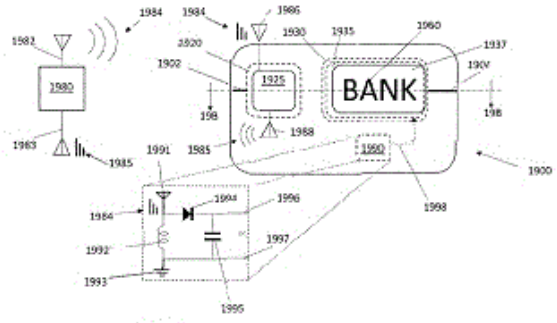

21: 2023/06766. 22: 2023/06/30. 43: 2025/08/05
51: B01D; C01B
71: UNIVERSITE MOHAMED VI POLYTECHNIQUE, OCP SA
72: KHALESS, Khaoula, HAFNAOUI, Anass, BOULIF, Rachid
33: FR 31: 2012902 32: 2020-12-09
**54: METHOD FOR DETERMINING MIXING PARAMETERS FOR THE PREPARATION OF A PHOSPHORIC ACID SOLUTION COMPRISING A CONTROLLED CONTENT OF ONE OR MORE OF ITS CONSTITUENTS**
00: -
The invention relates to a method for determining mixing parameters for the preparation of a phosphoric acid solution comprising a controlled content of at least one of its chemical constituents, referred to as the solution to be prepared, said solution to be prepared being obtained by mixing at least two phosphoric acid solutions, referred to as the solutions to be mixed, each having a different content of said chemical constituent, of which at least one is a permeate resulting from the filtration of a crude phosphoric acid solution through at least one nanofiltration membrane, said method being characterised in that it comprises the following steps: (1) providing a desired content (Tm) of said chemical constituent in the phosphoric acid solution to be prepared, and a desired volume (Vm) of the phosphoric acid solution to be prepared; (2) determining, using a computer, on the basis of the desired content (Tm) and the desired volume (Vm): - at least one combination of at least two phosphoric acid solutions among the phosphoric acid solutions to be mixed; - volumes of each of the phosphoric acid solutions to be mixed of the combination, such that the mixing of the phosphoric acid solutions of the combination leads to the phosphoric acid solution to be prepared.

21: 2023/06839. 22: 2023/07/05. 43: 2025/08/07
51: B65D
71: CHEP TECHNOLOGY PTY LIMITED
72: DAUBENSPECK, Bradley Wayne, SANKAR, Nigel
33: US 31: 63/147,864 32: 2021-02-10
33: US 31: 17/650,259 32: 2022-02-08
**54: STACKABLE QUARTER-SIZE PLASTIC PLATFORM AND ASSOCIATED METHODS**
00: -
A platform includes a top deck with spaced apart platform support leg openings extending therethrough, and platform support legs extending from a lower surface of the top deck and aligned with the platform support leg openings. Each platform support leg includes an upper portion and a lower portion, with the upper portion having an opening extending therethrough and aligned with a respective one of the platform support leg openings in the top deck. The lower portion includes a shelf that separates the opening in the upper portion from the lower portion. The shelf provides support to a bottom surface of a platform support leg from an identical platform when stacked thereon. A pair of extensions extend outwards from a bottom surface of the lower portion, with the opening in the upper portion providing clearance for the pair of extensions on the platform support leg of the identical platform when stacked thereon.

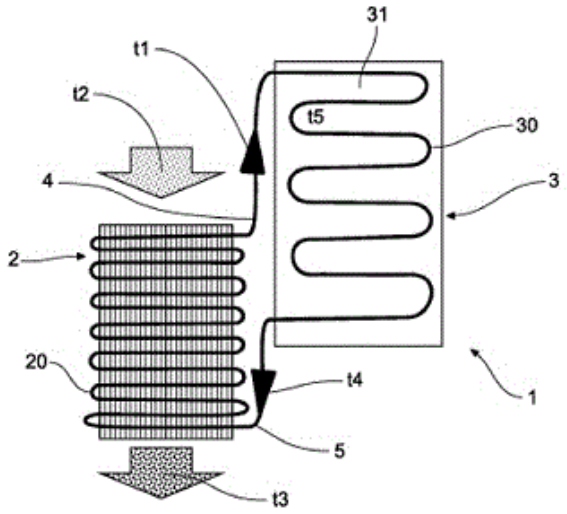



21: 2023/07131. 22: 2023/07/17. 43: 2025/06/10
51: G06K
71: COMPOSECURE, LLC
72: LOWE, ADAM, ESAU, JOHN
33: US 31: 16/751,285 32: 2020-01-24
**54: METAL, CERAMIC, OR CERAMIC-COATED TRANSACTION CARD WITH WINDOW OR WINDOW PATTERN AND OPTIONAL BACKLIGHTING**
00: -

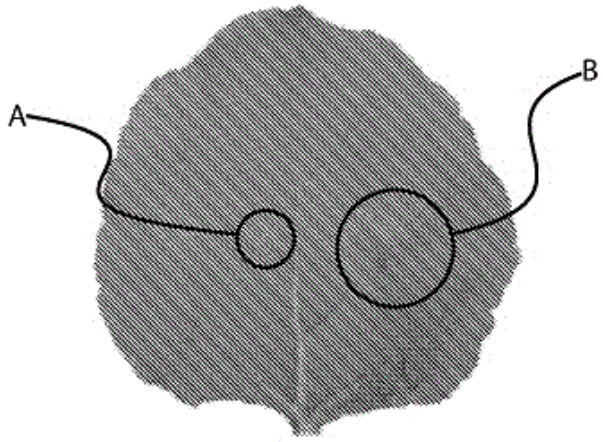
A transaction card (1900) includes at least one metal layer (1910) having one or more apertures (1920, 1930) therein. A light guide (1933) is disposed beneath the metal layer. The light guide has a light output and a light input. The light output is positioned to transmit light through at least the one or more apertures of the metal layer. At least one LED (1935) is positioned to transmit light into the light guide light input.




21: 2023/07285. 22: 2023/07/21. 43: 2025/06/18
51: F24F
71: ICEHEART AB
72: FJAESTAD, ADAM
33: SE 31: 2050061-7 32: 2020-01-23
**54: A METHOD FOR COOLING OF A USER SPACE AND AIR CONDITIONING ARRANGEMENT**
00: -
The invention relates to an air condition arrangement and a method for cooling of a user space. The air condition arrangement comprises a heat exchanger loop (20, 4, 30, 5) having a fluid in operational connection with an evaporator (2) and a condenser (3), wherein a cooling media (31) in said condenser (3) is arranged to absorb heat from said fluid, which fluid in turn absorbs heat from air flowing through said evaporator (2) to provide a cooled air flow out from said air condition arrangement (1). The cooling media (31) at least partly includes ice and the cooling media (31) is arranged to drive the heat exchanger loop (20, 4, 30, 5) in combination with creating a downwardly directed self-draught of air through said evaporator (2).

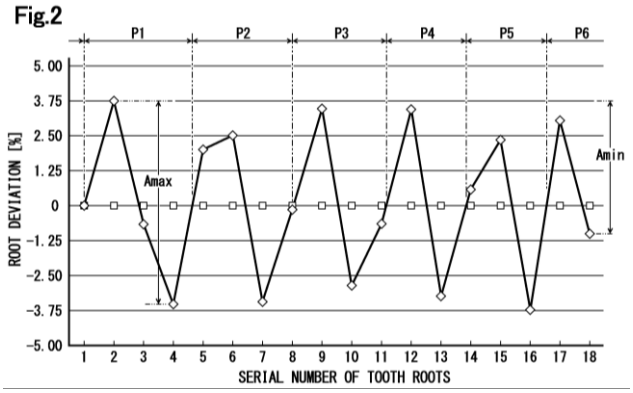



21: 2023/07403. 22: 2023/07/25. 43: 2025/06/05
51: C12N; A01H; C07K
71: ANDREASSON, ERIK, LENMAN, MARIT, ZAHID, MUHAMMAD AWAIS, PHUONG KIEU, NAM, KONAKALLA, NAGA CHARAN
72: ANDREASSON, ERIK, LENMAN, MARIT, ZAHID, MUHAMMAD AWAIS, PHUONG KIEU, NAM, KONAKALLA, NAGA CHARAN, RESJÖ, SVANTE, VETUKURI, RAMESH
33: SE 31: 2150182-0 32: 2021-02-19
**54: METHOD OF PROVIDING BROAD-SPECTRUM RESISTANCE TO PLANTS, AND PLANTS THUS OBTAINED**
00: -
A method of obtaining a plant cell having increased pathogen resistance and/or abiotic stress tolerance is provided, the method comprising the steps of a) providing a plant cell, and b) modifying the genome of the plant cell so as to obtain a decreased or inactivated expression of a protein having an amino acid sequence in which at least one part of the amino acid sequence has at least 78%, such as at least 85%, more preferably at least 90% sequence identity to SEQ ID NO: 5, and wherein the protein comprises less than 200 amino acids. A method of obtaining a plant, as well as a plant cell and a plant, are also provided.

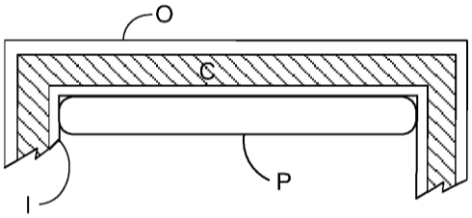



21: 2023/07747. 22: 2023/08/07. 43: 2025/07/01
51: F16H
71: TSUBAKIMOTO CHAIN CO.
72: SHIMIZU, Shoichiro, WATANABE, Yuta, HIRAI, Akira
33: JP 31: 2022-144434 32: 2022-09-12
33: JP 31: 2023-002492 32: 2023-01-11
**54: SPROCKET AND CHAIN DRIVE SYSTEM**
00: -
An object of the present invention is to provide a sprocket that mitigates the impact of tension fluctuations resulting from load torque changes, suppresses noise and vibration, ensures stable chain behavior, prevents sprocket durability loss and the generation of harmonics during rotation, along with a chain drive system. Tooth roots between adjacent teeth of the sprocket include those with a radial deviation from a root circle of a standard tooth profile, set within a predetermined numerical range corresponding to a tooth pitch. A phase variation pattern is created by changing a root radius in accordance with an angular position. The phase variation pattern has a waveform with an amplitude varied within a range of (1/7)Amax, where Amax represents a maximum amplitude. The chain drive system includes a plurality of sprockets and a chain passed over the sprockets, at least one of them being the above-described sprocket.

Fig.2




21: 2023/09423. 22: 2023/10/09. 43: 2025/07/01
51: B32B
71: INNOVIA FILMS LTD
72: SINGH, Shalendra, LEWUCHA, Cezary
33: GB 31: 2105310.3 32: 2021-04-14
33: GB 31: 2111513.4 32: 2021-08-11
**54: NAKED COLLATION PACKAGE FILM**
00: -
A naked collation film comprises a core layer (C), an inner sealing layer (I) of polyolefinic material and an outer sealing layer (O) of polyolefin material, each sealing layer comprising at least two, and preferably three, polyolefins selected from C4, and at least one of C2 and C3 polyolefins. At least one of the inner layer and the outer layer has at least one of: i. a C4 content of greater than about 10mol%; ii. a C4/C2 molar ratio of at least about 1.2; and/or iii. a C4/C3 molar ratio of at least about 0.15. The collation film is preferably non-blocking and has a large incompatibility window with the individually wrapped packages (P) of a naked collation package and has a strong optical performance.




21: 2023/09630. 22: 2023/10/16. 43: 2025/06/05
51: G16H
71: NEL, ANVIL DARRON
72: NEL, ANVIL DARRON
33: ZA 31: 2022/07862 32: 2022-07-15
**54: PREDICTIVE HEALTH AND PREVENTATIVE EMERGENCY MONITORING WEARABLE, SYSTEM AND METHOD**

00: -
A medical and/or safety monitoring wearable, a monitoring system of which the wearable forms part as an input module, and a method of using the system. More particularly, the method is provided for summoning a response in a case of an emergency event and comprises receiving medical data in real time from a first input module associated with a first person. The medical data is analysed, and an emergency event is identified based on a predetermined rule. The method also includes providing an input or prompt to an identified party.

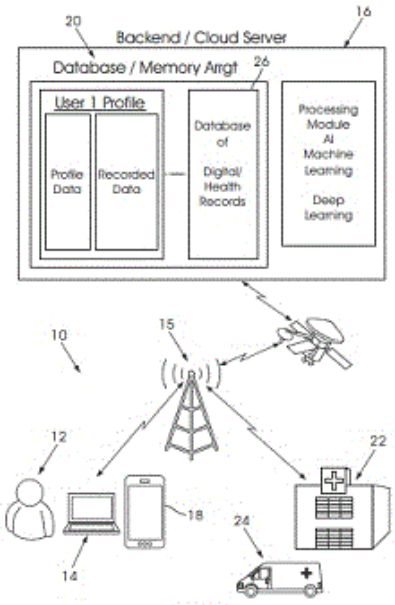


Fig. 1

21: 2023/09864. 22: 2023/10/23. 43: 2025/06/03
51: A61K; A61P
71: Kenvue Brands LLC
72: PANDEY, Anurag
33: US 31: 63/165,198 32: 2021-03-24
**54: A PHARMACEUTICAL COMPOSITION COMPRISING FAMOTIDINE**
00: -
The invention relates to a coated famotidine particle having at least a core and a coating layer, wherein the particle core comprises famotidine, a first filler and a first binder; and wherein the coating layer is substantially free from famotidine and comprises a second filler and a second binder. The invention also relates to solid dosage forms comprising said coated famotidine particle, and the use of the coated famotidine particle for treating a subject suffering from a disease or disorder in the gastrointestinal tract.

21: 2023/10145. 22: 2023/10/31. 43: 2025/06/05
51: B66F; B65G
71: THIEL DESIGN SOLUTIONS (PTY) LTD.
72: THIEL, JONATHAN DAVID
33: ZA 31: 2022/08709 32: 2022-08-04
**54: BELT LIFTER**
00: -
This invention concerns a belt lifter for lifting a conveyer belt. The belt lifter has a pair of frame members being connected to each other by means of a lifting mechanism located substantially between the frame members. The lifting mechanism is operatable between a first, contracted position wherein the frame members are substantially adjacent each other and a second, extended configuration wherein the frame members are spaced apart. A drive member is connected to the lifting mechanism such that manipulation of the drive member operates the lifting mechanism between its first, contracted and second, extended configurations. The belt lifter further has adjustable belt support brackets carried by one of the frame members and adjustable locating formations carried by the other frame member.

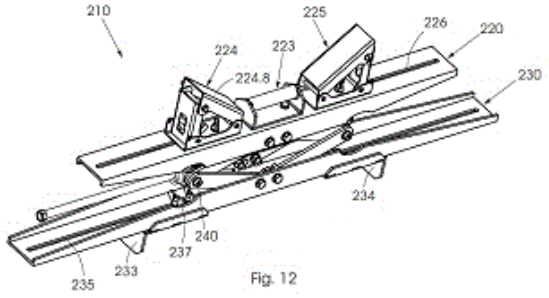
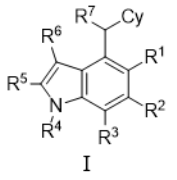


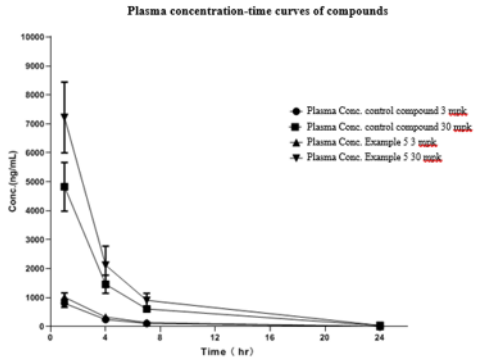
Fig. 12

21: 2023/10378. 22: 2023/11/07. 43: 2025/07/09
51: A61K; C07D; A61P
71: NOVARTIS AG
72: LUAN, Linbo, CHEN, Yongkai, WANG, Chaodong
33: CN 31: 202010790872.8 32: 2020-08-07
**54: COMPLEMENT FACTOR B INHIBITOR, AND PHARMACEUTICAL COMPOSITION THEREOF, PREPARATION METHOD THEREFOR AND USE THEREOF**
00: -

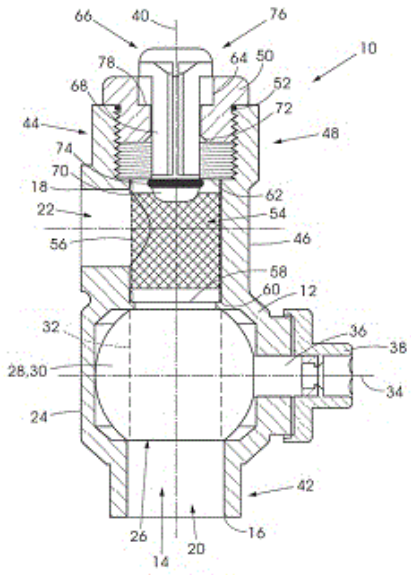
A piperidinyl-containing heterocyclic compound represented by formula (I). The compound can be used for treating a condition or disease related to complement alternative pathway activation by inhibiting/regulating complement factor B.




I




21: 2023/10508. 22: 2023/11/13. 43: 2025/06/12
51: F16K
71: PLASTINTERNATIONAL (PROPRIETARY) LIMITED
72: AMBROSI, LUCA AUGUSTO
33: ZA 31: 2022/09133 32: 2022-08-16
**54: AIR RELIEF VALVE ARRANGEMENT**
00: -
Fluid flow arrangements, typically in the form of an air relief valve arrangement which is typically, but not exclusively, incorporated in a plastic ball valve. The air release valve arrangement may comprise a valve body having a flow passage provided therethrough. The body includes an inlet and outlet port which are angularly offset relative to one another. A release opening is provided in fluid flow communication with the flow passage. A plunger body is displaceable relative to the release opening between a first and second position. When in the first position, the plunger body restricts or closes the release opening, while when in the second configuration, the release opening is at least partially open.




21: 2023/10630. 22: 2023/11/16. 43: 2025/06/25
51: G06Q
71: WILLIAM, THEMBA DESMOND
72: WILLIAMS, DESMOND THEMBA
33: ZA 31: 2022/09137 32: 2022-08-16
**54: A SECURE ENERGY TRANSACTION SYSTEM**
00: -
A secure transaction system for a nano-grid energy management network, with a digital currency platform communicatively linked to a nano-grid communication network, configured to generate digital tokens, at smart meter in communication with the platform, configured to measure and manage a producer's electric power as digital tokens, an energy reservoir in communication with the smart meter and platform, configured to store and transfer electrical power via transaction requests between producers; a decentralized digital ledger in communication with the smart meter, the reservoir, and the platform, configured to verify, authenticate, and record transaction requests; and a process controller in communication with the smart meter, energy reservoir, digital currency platform, wherein the transaction request is processed, and electrical power is transferred or received from the reservoir, with a concomitant recordal of the transaction request via the secure digital ledger

21: 2023/11007. 22: 2023/11/29. 43: 2025/06/24
51: A61K
71: STELLENBOSCH UNIVERSITY, UNIVERSITY OF CAPE TOWN

72: KASCHULA, CATHERINE HART, HUNTER, ROGER
33: ZA 31: 2022/13110 32: 2022-12-05
**54: ORGANOTRISULFIDE AND ORGANOTETRASULFIDE COMPOUNDS AND THE USE THEREOF IN METHODS OF TREATMENT**
00: -
The invention provides for novel organotrisulfide and organotetrasulfide compounds, pharmaceutically acceptable salts, stereoisomers, hydrates, and solvates thereof, as well as pharmaceutical compositions comprising these compounds. The compounds, pharmaceutically acceptable salts, stereoisomers, hydrates, and solvates thereof are useful in the treatment of diseases or disorders such as cancer.

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21: 2023/11244. 22: 2023/12/06. 43: 2025/04/17
51: C09K
71: RPL HOLDINGS LTD
72: POOLE, John Edward, POWELL, Richard Llewellyn
33: GB 31: 2108077.5 32: 2021-06-06
**54: LOW GLOBAL WARMING REFRIGERANT BLENDS**
00: -
A refrigerant composition comprising: Carbon dioxide 1 - 7%, Hydrofluoroolefin (HFO)-1234ze(E) 70 - 97%, HFC-227ea 2 - 16%; and 0-27% of an optional component selected from the group consisting of: HFC-32, HFC-134a, R125 and mixtures thereof, wherein the percentages of the components are by mass and are selected from the ranges quoted to total 100%.

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21: 2023/11446. 22: 2023/12/13. 43: 2025/06/13
51: E21D
71: VALOTECH 181 CC
72: DAVIES, Craig, David, DAVIES, Gordon, Daniel
33: ZA 31: 2022/10800 32: 2022-09-30
**54: COMPOSITE ROCK BOLT**
00: -
The invention provides rod-shaped rock bolt which has a single composite rod with a tapered wedge grip clamp or steel crimped tubular sleeve and a washer plate. The rock bolt 10 has a flange 12 to abut against the rock face aperture 18 opening to locate the rock bolt 10 at the appropriate depth. The flange 12 has openings 14 for pumping grout into the rock face aperture for securing the rock bolt 10 in position. Tubes 16 are located in the apertures 18 as breathers so that when grout is pumped in the air can be displaced from out of the rock aperture. A barrel and wedge 19 are located on the rock bolt shaft 17 and this arrangement allows for swivelling of the rock bolt portion remote the aperture 18 for ease of placement.

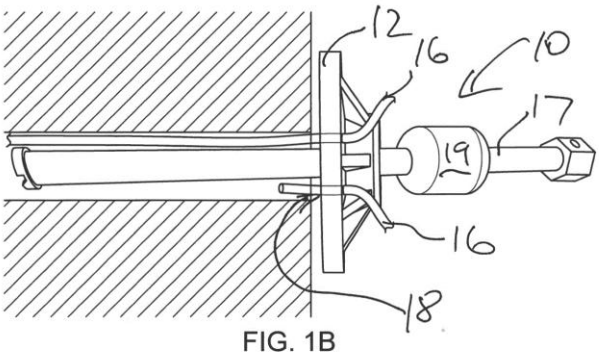

FIG. 1B

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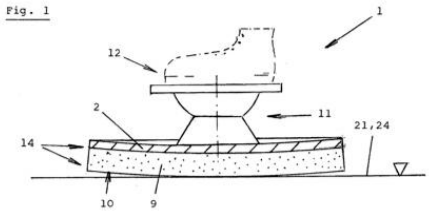
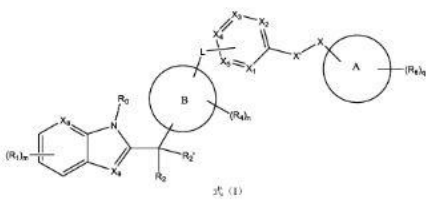
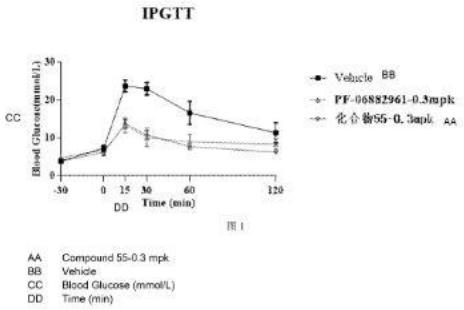
21: 2024/00142. 22: 2024/01/03. 43: 2024/10/01
51: A43C
71: MEYER, Andreas
72: MEYER, Andreas, EBERLEIN, Herbert
33: DE 31: 20 2021 002 037.3 32: 2021-06-11
33: DE 31: 20 2022 000 069.3 32: 2022-01-12
33: DE 31: 20 2022 000 863.5 32: 2022-04-06
**54: WALKING DEVICE FOR WALKING ON SOLAR MODULES**
00: -
The invention relates in each case to one of two walking devices (1, 1' ) for walking on solar modules (2), with a support apparatus (2) which is downwardly adjoined by a damping device (9), with a foot receptacle (12) provided above the support apparatus (2), and with a compensating apparatus (11) which is arranged between the support apparatus (2) and the foot receptacle (12) and permits movement and locking of the foot receptacle (12). A first solution proposes that at least the bottom side (3) of the support apparatus (2) and/or the bottom side (10) of the damping device (9) are/is deflected downwards in a spatially curved manner. A second solution imparts that the support apparatus (2) has at least a first part (5) and a second part (6), wherein the first part (5) is arranged on the second part (6), wherein furthermore at least the second part (6) is designed such that it springs back, and wherein the outline of the first part (5) is smaller than the outline of the second part (6).




21: 2024/00395. 22: 2024/01/11. 43: 2025/05/08
51: A61K; C07D
71: MINDRANK AI LTD.
72: ZHANG, Long, NIU, Zhangming, TANG, Bowen
33: CN 31: 202111017657.5 32: 2021-08-30
33: CN 31: 202111168512.5 32: 2021-09-29
**54: NOVEL ARYL ETHER SUBSTITUTED HETEROCYCLIC COMPOUND AS GLP1R AGONIST**
00: -
The present invention relates to a novel aryl ether substituted heterocyclic compound having GLP1R agonist activity. Specifically, disclosed are a compound as a GLP1R agonist represented by formula (I), or a pharmaceutically acceptable salt, solvate, hydrate, isotope substituent or isomer thereof.






21: 2024/01100. 22: 2024/02/02. 43: 2025/05/30
51: C07K
71: Eli Lilly and Company
72: ATWELL, Shane Krummen, FENG, Yiqing, KARTA, Maya Rachel, LEUNG, Donmienne Doen Mun, NA, Songqing, PELLETIER, Laura Anne, RUIZ, Diana Isabel, STOKELL, David John
33: US 31: 63/229,836 32: 2021-08-05
**54: HUMAN INTERLEUKIN-4 RECEPTOR ALPHA ANTIBODIES**
00: -
The present disclosure relates to antibodies that specifically bind human IL-4Ra, compositions comprising such IL-4Ra antibodies, and methods of using such IL-4Ra antibodies.

21: 2024/01225. 22: 2024/02/07. 43: 2025/06/12
51: B65D; C09J; B65B; A01F
71: MINAS PACK FILMES E EMBALAGENS LTDA
72: OKUBO, DENNY, FIRMEZA, ALINE HURTADO
33: BR 31: 1020210136588 32: 2021-07-10
**54: PACKAGING MATERIAL FOR AGRICULTURAL PRODUCTS AND METHOD FOR PRODUCING A PACKAGING MATERIAL FOR AGRICULTURAL PRODUCTS**
00: -
The present invention relates to a novel proposal for a material for packaging agricultural products, such as cotton, in particular in cylindrical bales using automated agricultural equipment and machines, such as self-propelled balers. More specifically, the present invention relates to a packaging material comprising a single continuous film (1) comprising a plurality of individual packaging portions (2) that can be detached from one another using a break line (3), in which said individual packaging portion (2) has an initial portion (2a) and a final portion (2b), and in which a permanent adhesive (10) is applied close to the final end (5b) of the final portion (2b) and covered with a film (12), the end (12b) of which overlaps said permanent adhesive (10) and is folded into a “V” shape, and in which the opposite end (12a) extends over the initial end (5a) of the initial portion (2a) of the next individual packaging portion (2) and is rigidly connected thereto.

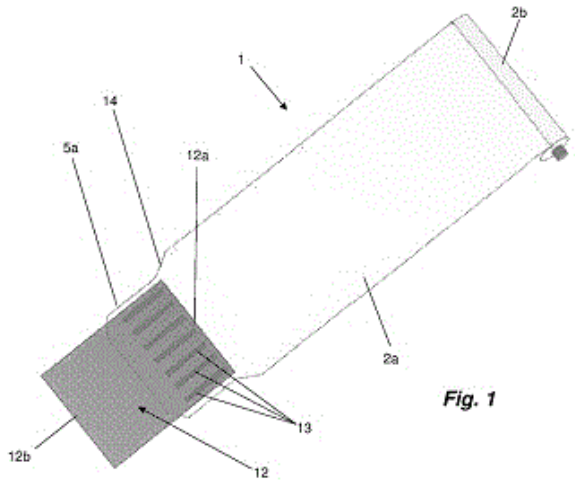


Fig. 1

21: 2024/01241. 22: 2024/02/08. 43: 2025/05/30
51: A61P; C07D
71: Shanghai Maius Pharmaceutical Co. Ltd.
72: SHI, Mingfeng, GUO, Yekun, HU, Xiang, HUANG, Dujian
33: CN 31: 202110907061.6 32: 2021-08-09
**54: DIHYDRO-2H-ISOINDOLE ESTER COMPOUND**
00: -
Disclosed in the present invention is a dihydro-2H-isoindole ester compound, the general structural formula of which is as represented by formula (I). Further provided in the present invention are a preparation method for the dihydro-2H-isoindole ester compound, and the use thereof in the preparation of a drug for multiple myeloma. The dihydro-2H-isoindole ester compound of the present invention has good permeability, and is steadily absorbed and exerts a pharmaceutical effect after oral absorption. Since absorption and metabolism behaviors are different, the compound of the present invention is more suitable for clinical requirements than an existing drug in terms of pharmacokinetic properties.

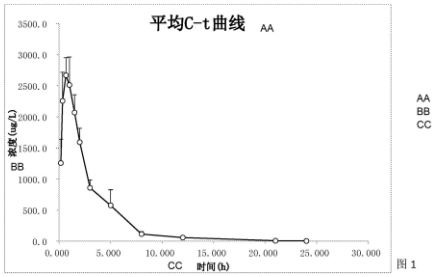
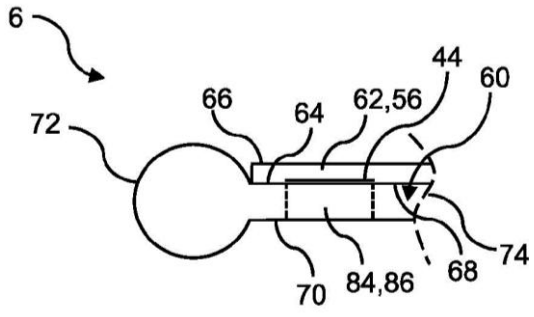


图 1

21: 2024/01277. 22: 2024/02/09. 43: 2025/05/30
51: A47J
71: Société des Produits Nestlé S.A.
72: YOAKIM, Alfred, MOODIE, Simon
33: EP(CH) 31: 21186135.6 32: 2021-07-16
**54: CONTAINER AND BEVERAGE OR FOODSTUFF PREPARATION SYSTEM COMPRISING THE CONTAINER**
00: -
A container (6) arranged for containing a precursor material for use with a machine (4) for preparing a beverage and/or foodstuff, the container comprising: a storage portion (58), a closing member (56), a flange (60) connecting the storage portion and closing member, a machine-readable code (44) storing preparation information for use with a preparation process performed by said machine, and a code carrying member (62), wherein the flange comprises a viewing window (84), the code carrying member (62) extending over the viewing window (84) at a side of the flange that comprises an upper surface (68) of the flange (60), and the code (44) arranged on a flange facing surface (64) of the code carrying member (62), wherein the code (44) is readable from a side of the flange (60) that comprises a lower surface (70) of the flange through the viewing window (84).




21: 2024/01301. 22: 2024/02/12. 43: 2025/07/01
51: A61K; B01F

71: LUMENT AB
72: FORK, Thomas, ADNERHILL, Ingvar, CASAL-DUJAT, Lucia, LIU, Wenyun, BÖÖK, Olof
33: SE 31: 2151163-9 32: 2021-09-23
33: SE 31: 2151200-9 32: 2021-09-30
33: SE 31: 2251068-9 32: 2022-09-15
33: SE 31: 2251071-3 32: 2022-09-15
**54: CONTRAST AGENT MIXER**
00: -
A contrast agent mixer (100) for providing a foam type contrast agent is presented. The mixer (100) comprises a holding arrangement (109) for supporting a mixing container, a substantially homogeneous circular mixer blade (110) for mixing a contrast powder with a liquid in the mixing container (200), and a controller configured to control a rotational speed of the mixer blade (110) and a vertical distance (D) between the holding arrangement (109) and the mixer blade (110). A method, a system and a mixing container are also presented.

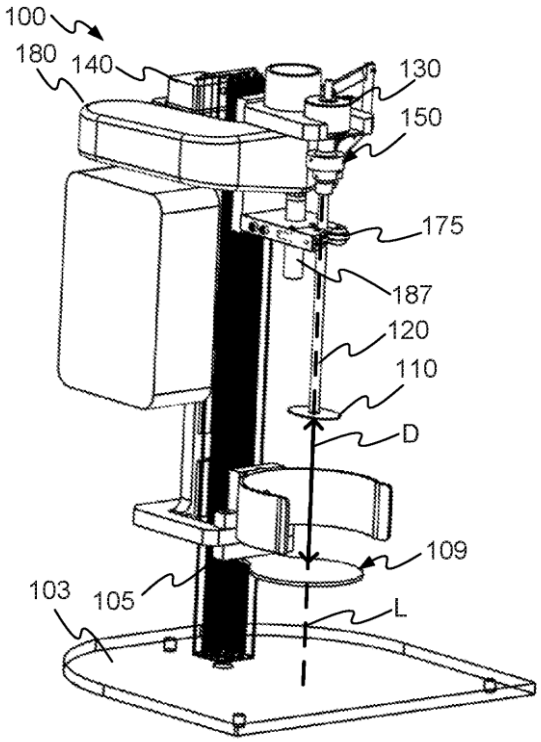
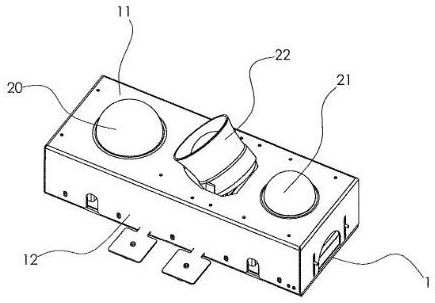


Fig. 1c

21: 2024/01593. 22: 2024/02/22. 43: 2025/07/22
51: F03D; G03B; H04R
71: ORFANOS, Vasileios
72: ORFANOS, Vasileios
33: GR 31: 2010100503 32: 2021-07-26
**54: SYSTEMS FOR INSTALLING ON A WIND TURBINE TOWER MOVING OBJECTS MONITORING DEVICES AND/OR MOVING OBJECTS COLLISION PREVENTION DEVICES**
00: -
A system for installing on a wind turbine tower at least one moving objects monitoring device and/or at least one moving objects collision prevention device, comprising: a mounting base (1) adapted to be mounted on the tower and comprising a flat surface (A) and at least one pair of opposite walls (2, 2'), a box (10) for installing the aforementioned devices comprising a flat base (11) and four sides (12, 12', 12", 12"), wherein the box (10) is adapted to be connected to the mounting base (1) to form a closed space inside the box (10) and comprises at least one opening (13, 13', 13"), and at least one supporting base (14, 14', 14") for supporting the aforementioned devices on the flat base (11) so that only the part which is necessary to be located outside the box (10) for performing the monitoring and/or collision prevention functions protrudes from the opening (13, 13', 13").




21: 2024/01606. 22: 2024/02/23. 43: 2025/06/25
51: C07K; A61P
71: CELLOGEN THERAPEUTICS PVT. LTD.
72: KHARYA, GAURAV
33: IN 31: 202111035166 32: 2021-08-12
**54: CHIMERIC ANTIGEN RECEPTORS (CAR) FOR B CELL MALIGNANCIES**
00: -
The present invention relates to chimeric antigen receptors (CAR) comprising of two or more binding domains that binds CD19, CD20 or CD22 and at least two or more intracellular co-stimulatory signaling domains selected from the group consisting of CD28, 41BB, OX40 and ICOS. The CAR may further comprise of a hinge or spacer

region, a transmembrane region, an intracellular signaling domain and a linker region. The CAR and compositions thereof of the invention is used in the treatment of B-cell malignancies.

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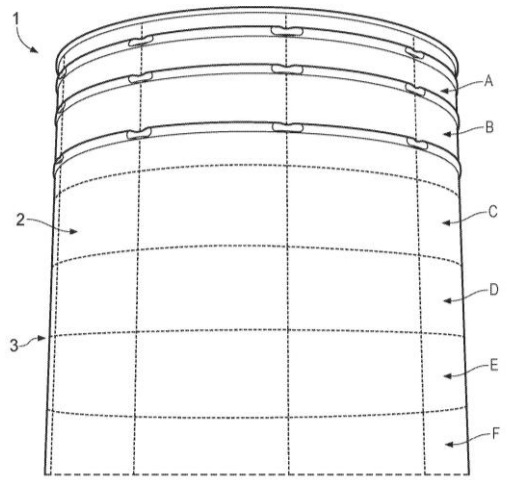
21: 2024/01614. 22: 2024/02/23. 43: 2025/06/11
51: B65D; E04H
71: Permastore Limited
72: CUTRI, Frank, BROOK, Johnathon, GARE, Andrew
33: GB 31: 2112120.7 32: 2021-08-24
**54: TANK AND SILO SYSTEM**
00: -
A tank or silo storage system comprising a plurality of curved tessellating panels, the tessellating panels being arranged in use to form a plurality of cylindrical rings, the plurality of cylindrical rings being arranged in use to be adjacent to one another to form an elongate cylindrical tank or silo body, the panels are provided with protuberances and continuity couplings for the protuberances or the tank or silo is provided with a radially alternating stiffening arrangement.

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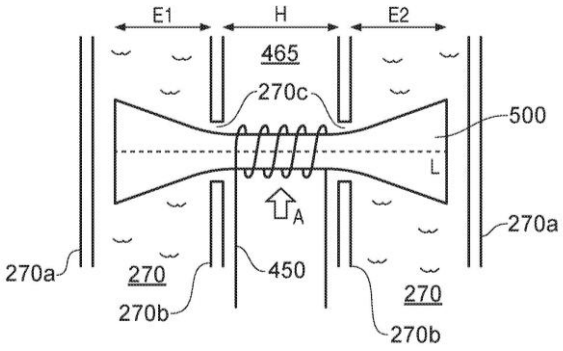
21: 2024/01666. 22: 2024/02/27. 43: 2025/06/13
51: A24F
71: Nicoventures Trading Limited
72: SIMPSON, Alex, ANGELL, Terry Lee
33: GB 31: 1704674.9 32: 2017-03-24
**54: AEROSOL SOURCE FOR A VAPOUR PROVISION SYSTEM**
00: -
An aerosol source for an electronic vapour provision system comprises a heating element (450); an atomising chamber (465); a reservoir (270) for holding free-flowing source liquid; and a porous wick (500) extending from the atomising chamber to the reservoir and comprising a heater portion in cooperation with the heating element within the atomising chamber and at least one liquid collecting portion within the reservoir, the liquid collecting portion having a maximum cross-sectional parameter that is greater than an equivalent cross-sectional parameter of the heater portion.

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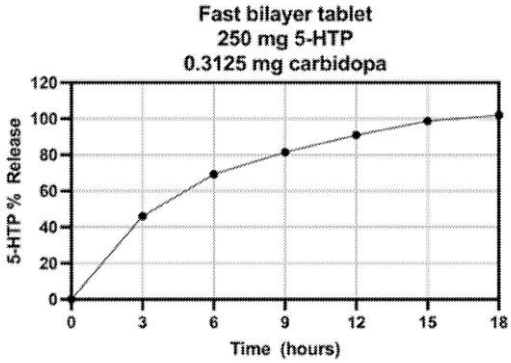
21: 2024/01725. 22: 2024/02/28. 43: 2025/05/30
51: A61K
71: Evecxia Therapeutics, Inc.
72: JACOBSEN, Jacob Pade Ramsoe, BERNER, Bret, LIN, Wu, TAY, Ching Sieu
33: US 31: 63/227,915 32: 2021-07-30
**54: 5-HYDROXYTRYPTOPHAN GASTRORETENTIVE DOSAGE FORMS**
00: -
A gastroretentive, sustained-release dosage form including 5-hydroxytryptophan (5-HTP) as an active ingredient and low-dose carbidopa is described. For example, the dosage form can be provided as a bilayer tablet comprising a swelling layer and a modified release layer, where the 5-HTP and carbidopa are both included in the modified release layer. The dosage form provides for essentially parallel release of the 5-HTP and the carbidopa with, for instance, release of 80% of the 5-HTP and carbidopa at about 5 hours to about 12 hours.




21: 2024/01729. 22: 2024/02/28. 43: 2025/05/30
51: B60K
71: Sandvik Mining and Construction Oy
72: LAIHONEN, Esko, AHTIAINEN, Jouni, KITULA, Mikko, ILJIN, Tuomas
33: EP(FI) 31: 21209967.5 32: 2021-11-23
**54: A POWERTRAIN SUPPORT ARRANGEMENT, AND A MOBILE UNDERGROUND MINING MACHINE**
00: -
A powertrain support arrangement (1) of a mobile underground mining machine (100), wherein the arrangement (1) comprising an axle housing (6), arranged transversely to a longitudinal axis of the mobile underground mining machine (100), the axle housing (6) comprising a first end (7) and a second end (7'), on the first end of the axle housing is arranged a support surface (8) for a hub motor arrangement (30) and on the second end of the axle housing is arranged a support surface for a second hub motor arrangement (30), and wherein a space (17) for at least a part of the hub motor arrangement is arranged inside the axle housing.

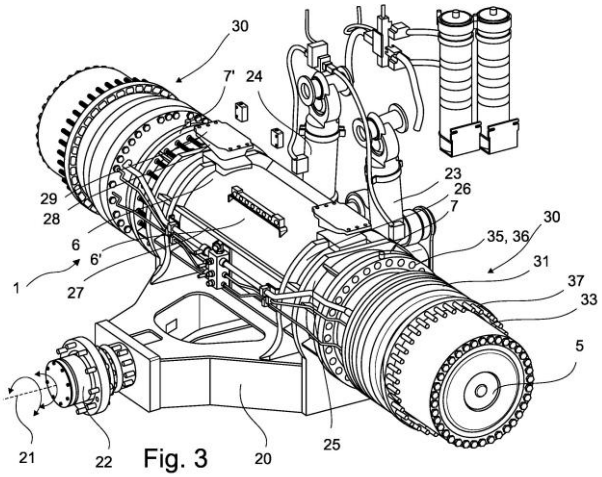
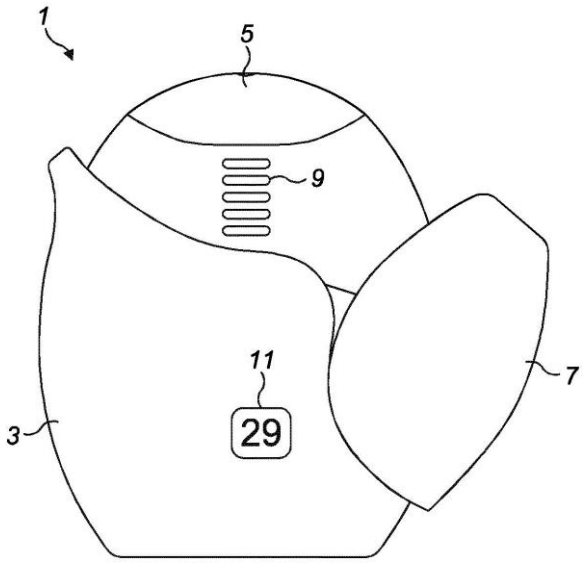


Fig. 3

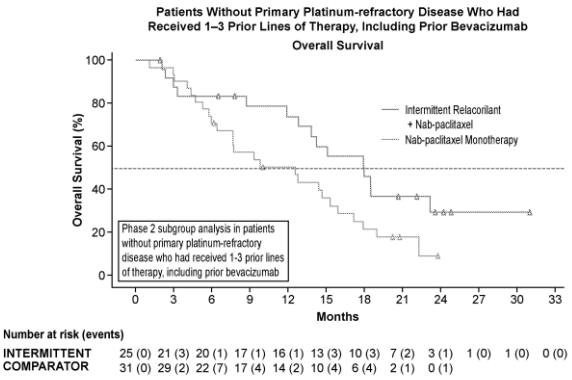
21: 2024/01734. 22: 2024/02/28. 43: 2025/05/30
51: A61M
71: Norton (Waterford) Limited
72: CROWLEY, Peter John, HAZENBERG, Jan Geert, BUCK, Daniel, GOTTESMAN, Josh
33: GB 31: 2111658.7 32: 2021-08-13
**54: DRY POWDER MEDICAMENT INHALER**
00: -
Provided is a dry powder inhaler (1) for delivering medicament from at least one medicament carrier (201) having a plurality of spaced-apart medicament doses. The inhaler comprises: a housing (3) having regions for accommodating unused and used portions of the medicament carrier; a mouthpiece component (5) extending from the housing and through which a user is able to inhale; a manifold (25) arranged in the housing and defining at least part of an air flow path extending from an air inlet to the mouthpiece, the manifold further defining a dispensing position for the medicament carrier; a dispensing mechanism arranged in the housing for moving a medicament dose of the medicament carrier to the dispensing position and for placing the medicament dose in fluid communication with the air flow path ready for inhalation by the user; and a mouthpiece cover (7) being rotatably connected to the housing for sequential movement about a rotation axis from a first position in which the mouthpiece component is completely covered to a second position in which the mouthpiece component is completely covered, and from the second position to a third position in which the mouthpiece component is completely uncovered. The mouthpiece cover is coupled to the dispensing

mechanism such that movement of the mouthpiece cover drives the dispensing mechanism, wherein movement of the mouthpiece cover from the second position to the third position causes a medicament dose of the medicament carrier to be moved to the dispensing position, but movement of the mouthpiece cover from the first position to the second position does not causes the medicament dose to be moved. Also provided are arrangements in which the coupling of the mouthpiece cover to the dispensing mechanism is arranged to be non-linear, such that movement of the mouthpiece cover from a first position to a second position causes the medicament dose to be moved with a first movement ratio, and movement of the mouthpiece cover from the second position to a third position causes the medicament dose to be moved with a second movement ratio which is different to the first movement ratio.

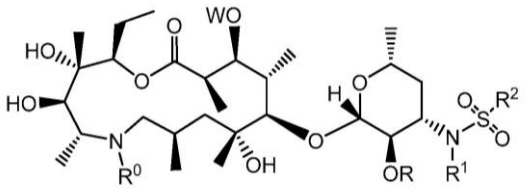



21: 2024/01742. 22: 2024/02/28. 43: 2025/07/01
51: A61K; A61P
71: CORCEPT THERAPEUTICS INCORPORATED
72: SHEPHERD, Stacie, BELANOFF, Joseph K.
33: US 31: PCT/US2021/050617 32: 2021-09-16
33: US 31: 63/244,825 32: 2021-09-16
33: US 31: 63/324,873 32: 2022-03-29
33: US 31: 63/345,682 32: 2022-05-25
**54: INTERMITTENT DOSING OF GLUCOCORTICOID RECEPTOR MODULATORS FOR THE TREATMENT OF OVARIAN AND OTHER CANCERS**

00: -
Methods and compositions for treating cancer (e.g., ovarian, fallopian tube, uterine, cervical, vaginal, vulvar, or peritoneal cancer) are disclosed. The methods include intermittent administration of a glucocorticoid receptor modulator (GRM), such as a non-steroidal GRM (e.g., relacorilant), which may be orally administered, along with a cancer chemotherapy agent to the patient. The patient may have received bevacizumab prior to receiving such intermittent GRM plus chemotherapy treatment. The GRM may be administered: at intervals separated by at least one day without GRM administration; by a schedule linked to the cancer chemotherapy schedule (e.g., a weekly chemotherapy regimen); the day of, or the day before, or the day after, chemotherapy administration; by combinations thereof; and/or on other days. Ovarian cancer patients receiving intermittent relacorilant administration along with nab-paclitaxel administration had improved overall survival, progression free survival, duration of response, and other benefits as compared to patients not receiving relacorilant while receiving nab-paclitaxel.

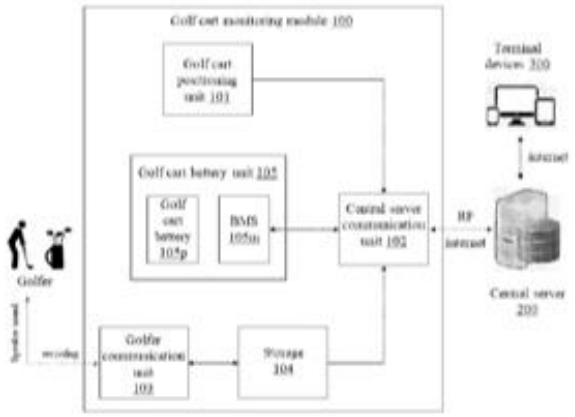



21: 2024/01768. 22: 2024/02/29. 43: 2025/05/30
51: A61K; A61P; C07H
71: Zoetis Services LLC
72: COX, Mark R., EWIN, Richard A., RESPONDEK, Tomasz, HOT, Imelda, MADDUX, Todd M.
33: US 31: 63/241,126 32: 2021-09-07
**54: IMMUNOMODULATING AZALIDES**
00: -
Defined herein are immunomodulating Formula (1) compounds, wherein R, $R^0$, $R^1$, $R^2$ and W are as defined herein, stereoisomers thereof, and pharmaceutically acceptable salts thereof; and compositions comprising said compounds. The invention also includes methods for treating or preventing an inflammatory and/or immunological disease or disorder in an animal by administering a therapeutically effective amount of a Formula (1) compound, stereoisomer thereof, or pharmaceutically acceptable salt thereof; or use of said Formula (1) compound to prepare a medicament for treating or preventing an inflammatory and/or immunological disease or disorder in an animal.



(1)

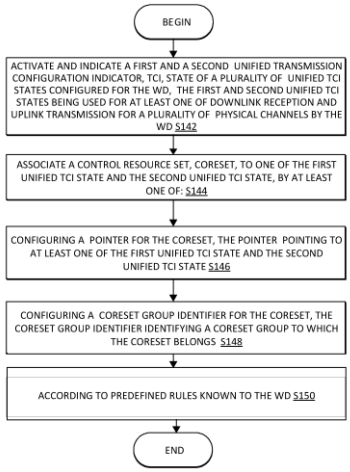
21: 2024/01802. 22: 2024/03/01. 43: 2024/09/04
51: G06Q; H04W
71: TRAN, Van Nam
72: TRAN, Van Nam
33: VN 31: 1-2021-05032 32: 2021-08-16
**54: SYSTEM AND METHOD FOR GOLF COURSE MANAGEMENT**
00: -
The present invention relates to a system and a method for golf course management utilizing IoT solutions to comprehensively improve efficiency of the golf course management. The system according to the present invention comprising: the central sever for storing and processing data corresponding to operations of the golf course, the central sever allowing terminal devices capable of accessing and transceiving data with the central sever; the golf cart monitoring module is disposed on each golf cart for collecting at least the golf cart location data which is related to the real time location of the corresponding golf cart and the battery data which is related to the operating status of the golf cart battery, for sending the golf cart location data and the battery data to the central sever. Utilizing the operating golf cart locations to draw a map which includes at least the operating golf carts for displaying to the marshal of the golf course. The operating golf carts displayed on the map will be assigned the colors of green, red, or yellow due to the corresponding actual moving status of each golf cart to the predetermined moving schedule. A speaker will generate sound for reminding the golfers if they move slower than the moving schedule. The present invention also relates to the corresponding method for golf course management.



21: 2024/01838. 22: 2024/03/04. 43: 2025/06/13
51: A23J
71: TARSHYN&CO LIMITED
72: VORONTSOV, Oleksii Ivanovych, TARSHYN, Stanislav Ivanovych
33: UA 31: a 2021 04736 32: 2021-08-19
**54: METHOD OF PRODUCING PROTEIN ISOLATE FROM SUNFLOWER MEAL**
00: -
A method of producing a protein isolate from sunflower meal is disclosed, including: milling the meal, washing out the milled meal with an acid followed by separating a solvent, extracting a produced product with an alkali followed by separating a protein solution, isoelectrically depositing the protein with the acid, washing out a produced deposit with water and the acid followed by depositing, neutralizing a suspension of the produced product to a pH of 7.0, stabilizing the produced suspension by heating and spray drying the suspension to produce the protein isolate.

21: 2024/01863. 22: 2024/03/05. 43: 2025/06/13
51: H04B; H04L
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: MURUGANATHAN, Siva, NILSSON, Andreas, GAO, Shiwei
33: US 31: 63/238,282 32: 2021-08-30
**54: COMMON SPATIAL FILTER INDICATION FOR CORESETS IN MULTI-TRANSMISSION RECEPTION POINT SYSTEMS**
00: -
A method, network node and wireless device (WD) for common spatial filter indications for control resource sets (CORSETs) in multiple transmission

reception point (TRP) systems are disclosed. According to one aspect, a method in a network node includes activating a plurality of transmission configuration indication (TCI) states. The method also includes configuring a beam index information element (IE) to associate a CORESET to at least one of the unified TCI states.

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21: 2024/01877. 22: 2024/03/05. 43: 2025/06/13
51: A61K; A61P
71: MUSC Foundation for Research Development
72: FEGHALI-BOSTWICK, Carol
33: US 31: 63/241,274 32: 2021-09-07
**54: ENDOSTATIN PEPTIDES FOR THE TREATMENT OF TUMORS, FIBROSIS AND ACUTE LUNG INJURY**
00: -
The present invention provides compositions and methods for treatment or prevention of tumor growth, fibrosis, acute lung injury or a combination thereof. In one embodiment, the composition comprises a peptide derived from the C -terminal region of endostatin.

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21: 2024/02020. 22: 2024/03/11. 43: 2025/06/19
51: A01C
71: YARA INTERNATIONAL ASA
72: REUSCH, Stefan
33: EP 31: 21194224.8 32: 2021-09-02
**54: METHOD AND SYSTEM FOR PROVIDING A SITE-SPECIFIC FERTILIZER RECOMMENDATION**
00: -
The present invention relates to a computer-implemented method for providing a site-specific variable fertilizer recommendation for a crop at a given point in time, the method comprising the steps of: a. determining (1000) at least one agricultural field (1) comprising at least one crop; b. scheduling (1100) a fertilization application for the at least one agricultural field; c. determining (1200) a crop nutrient status of the at least one agricultural field (1), wherein determining a crop nutrient status of the at least one agricultural field (1) comprises: i. receiving remote data, the remote data comprising image data of the at least one agricultural field (1) and a time stamp indicative of when the image data was taken; ii. generating at least one vegetation index indicative of a crop nutrient status based on the image data; iii. determining a crop nutrient status based on the at least one vegetation index; d. adjusting (1300) the crop nutrient status based on the time difference between the time stamp of the image data and the scheduled fertilizer application; e. determining (1500) a variable fertilizer recommendation for the at least one agricultural field based on the adjusted crop nutrient status.

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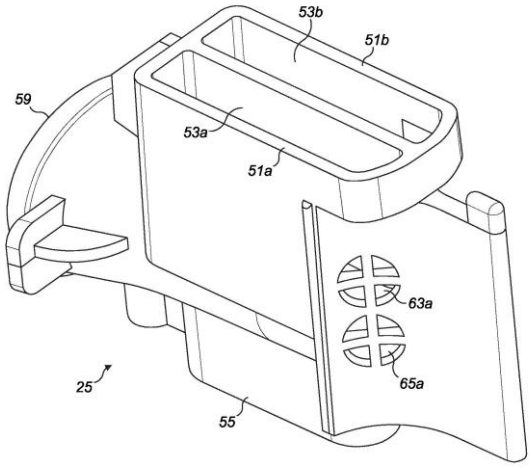
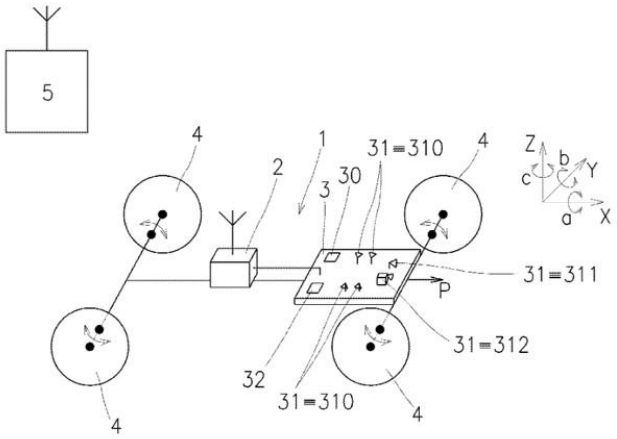
21: 2024/02174. 22: 2024/03/18. 43: 2025/06/19
51: A61M
71: Norton (Waterford) Limited
72: CROWLEY, Peter John, HAZENBERG, Jan Geert, BUCK, Daniel, GOTTESMAN, Josh
33: GB 31: 2113921.7 32: 2021-09-29
**54: DRY POWDER MEDICAMENT INHALER**
00: -
Disclosed is a dry powder inhaler for delivering medicament from at least one blister pack, each blister pack having a plurality of spaced-apart blister pockets containing doses of the medicament. The inhaler comprises: a housing for accommodating unused and used portions of the at least one blister pack together with a dispensing mechanism for simultaneously opening at least two blister pockets at a time; and a manifold component through which air can be drawn in use of the inhaler.



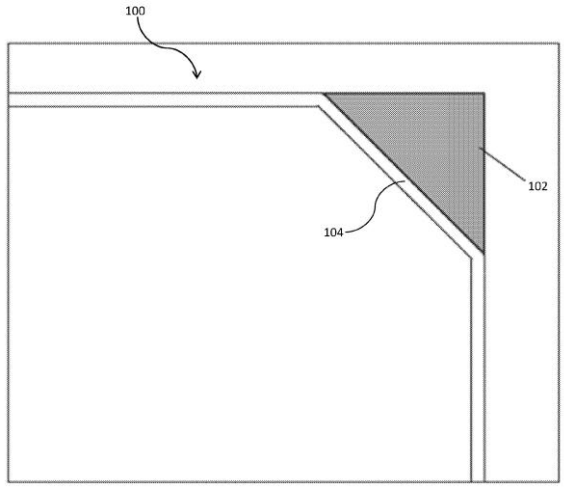

21: 2024/02413. 22: 2024/03/26. 43: 2025/08/13
51: A23K; A61K; C07C
71: Alzchem Trostberg GmbH
72: Peter LOIBL, Judith RINGEL
33: DE 31: 10 2021 126 581.9 32: 2021-10-13
**54: USE OF A FEED ADDITIVE IN LOW ENERGY FEED FOR PIGS**
00: -
The present invention relates to the use of a composition containing guanidinoacetic acid during fattening of pigs with a low-energy feed in order to improve the energy utilisation of the feed by the pigs, wherein the low-energy feed during fattening of the pigs has an energy content in the range of 11.4 to 12.9 MJ ME/kg.

21: 2024/02416. 22: 2024/03/26. 43: 2025/08/13
51: G05D
71: TECHNICKA UNIVERZITA V LIBERCI
72: Jindrich CYRUS, Jaroslav HLAVA, Jan KOCI, David KRCMARIK
**54: METHOD OF NAVIGATING AN AUTOMATED GUIDED VEHICLE FOR INTERNAL LOGISTICS AND A SYSTEM FOR ITS IMPLEMENTATION**
00: -
The invention relates to a method of navigating an automated guided vehicle for internal logistics, in which the current position and inclination of the vehicle (1) provided with a controlled drive and steering connected to an on-board control system (2) is detected, whereupon this detected current position is compared with the desired position of the vehicle (1) on a specified reference trajectory of the vehicle (1) movement, and from the difference between the two positions, correction of the vehicle (1) movement is determined, which is then used to control the direction and speed of the vehicle (1) movement. The current position and inclination of the vehicle (1 ) is detected by a sensor node (3) with an inertial measurement unit (30) and with a set of optical sensors (31), whereby a time stamp is assigned to the detected current position and inclination of the vehicle (1), which describes the time of data acquisition to determine the corresponding values of the current position (x, y, z) and current rotation (a, b, c) of the sensor node (3), whereupon these data are transmitted to the on-board control system (2) for predictive control of the vehicle (1) movement according to the specified reference trajectory of the vehicle (1) and the detected current position of the vehicle (1). The invention also relates to a system for navigating an automated guided vehicle for internal logistics.

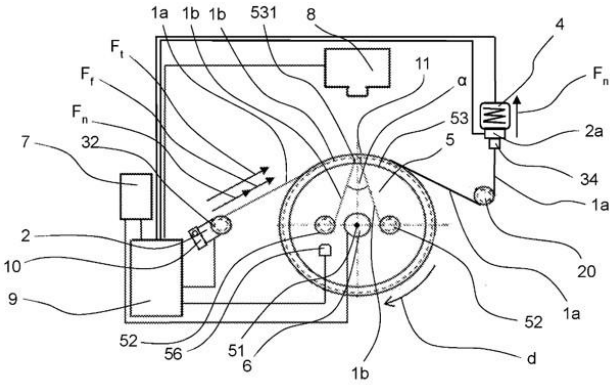



21: 2024/02433. 22: 2024/03/26. 43: 2025/07/01
51: E04G
71: PERI SE
72: ROUTH, Anibrata, ARUN, KS, RAO, CNVS, SHARANAPPA, A, GIRARDI, Marco, FRANCESCONI, Davide
33: IN 31: 202111045993 32: 2021-10-08
**54: A CORNER INSERT FOR FORMWORK PANELS**
00: -
A corner insert (102) for formwork panels (100) is disclosed that includes a planar portion (302) adapted to be aligned with a surface of a formwork panel. The corner insert (102) also includes an engaging portion (304) disposed below the planar portion (302) and adapted to be coupled to the formwork panel (100) to attach the corner insert (104) to a corner (104) of the formwork panel (100).

Further, the planar portion (302) is aligned with the surface of the formwork panel in a manner that a right-angled corner is defined on the formwork panel (100).




21: 2024/02460. 22: 2024/03/27. 43: 2025/08/13
51: G01N
71: TECHNICKA UNIVERZITA V LIBERCI
72: Dana KREMENAKOVA, Jiri MILITKY, Miroslav SVOBODA
33: EP 31: 21202368.3 32: 2021-10-13
**54: DEVICE FOR DETERMINING THE COEFFICIENT OF DYNAMIC FRICTION OF FLEXIBLE PLANAR AND/OR LINEAR STRUCTURES AND A METHOD FOR DETERMINING THE COEFFICIENT OF DYNAMIC FRICTION**
00: -
The invention relates to a device for determining the coefficient (f) of dynamic friction of flexible planar and/or linear structures (1a, 1b), which comprises a sensor (2) of tension force (Ft) which acts in a first flexible planar or linear structure (1a), a tensioning means (4) for tensioning the first flexible planar or linear structure (1a) by tension force (Fn), wherein a friction drum (5) is mounted rotatably transversely between the sensor (2) of tensile force (Ft) and the tensioning means (4), wherein the friction drum (5) is coupled to a drive for rotational movement about a longitudinal axis and provided with means for arranging a second flexible planar or linear structure (2b) on the surface of the friction drum (5), wherein the sensor (2) of tension force (Ft) is connected to a computing unit (9) provided with means for determining the coefficient (f) of dynamic friction of the surfaces of the two flexible planar or linear structures (1a, 1b). In addition, the invention relates to a method for determining the coefficient (f) of dynamic friction of flexible planar and/or linear structures (1), in which a first flexible planar or linear structure (1a) which is at one end connected to a sensor (2) of tensile force (Ft) and at the other end loaded by tension force (Fn), presses against the surface of a second flexible planar or linear structure (1b) arranged on the surface of a rotating friction drum (5), wherein a sensor (2) of tensile force (Ft) measures the tensile force (Ft) acting on this end of the first flexible planar or linear structure (1a) and the coefficient (f) of dynamic friction is determined in radians from the known tension force (Fn) and the measured tensile force (Ft).




21: 2024/02560. 22: 2024/04/02. 43: 2025/07/09
51: A61K; C07K
71: DR REDDY'S LABORATORIES LTD.
72: JAYARAMAN, Murali, K GOUD, Saisharan, NANKAR, Sunil Ashok, NANATH, Maya, SIGIREDDI, Indra Kumar, AGGARWAL, Lovisha, KALIGATLA, Sireesha Goswamy, MARIKANTY, Ravi Kumar, SURESH, Abirami, SIVALANKA, Giridhar, PENMETSA, Ravi Kiranmai, LABALA, Suman, INGALE, Mahesh, SARKAR, Puja, DESAI, Mayur Vijay, KIRAVE, Prathibha Chandrashekhar, SHINDE, Chetan Govindrao
33: IN 31: 202141040075 32: 2021-09-03
33: IN 31: 202241019550 32: 2022-03-31
**54: A METHOD OF IMPROVING STABILITY OF IMMUNE CHECK POINT INHIBITORS**
00: -
The present invention relates to pharmaceutical formulations of antibodies and antigen-binding fragments against human programmed death receptor-1 (PD-1)/ programmed death receptor Ligand 1 (PD-LI), and method for preparing the

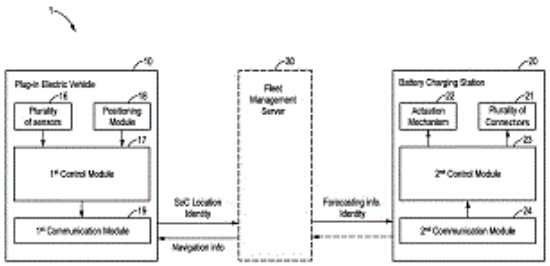
same. The disclosed formulations stabilizes anti-PD1/anti-PD L1 antibody from lower to higher concentrations rendering it suitable for different modes of administration (subcutaneous/intravenous).

---

21: 2024/02561. 22: 2024/04/02. 43: 2025/07/09
51: A61K; C07K
71: DR REDDY'S LABORATORIES LTD.
72: JAYARAMAN, Murali, K GOUD, Saisharan, NANKAR, Sunil Ashok, NANATH, Maya, AGGARWAL, Lovisha, SARKAR, Puja, INGALE, Mahesh, JACOB, Reinhard, SURESH, Abirami, PRIYA, R., L. Shri Ranga, LABALA, Suman
33: IN 31: 202141040074 32: 2021-09-03
**54: A PHARMACEUTICAL FORMULATION OF IMMUNE CHECK POINT INHIBITORS**
00: -
The present invention relates to pharmaceutical formulations of antibodies and antigen-binding fragments against human programmed death receptor-1 (PD-1)/ programmed death receptor Ligand 1 (PD-LI), and method for preparing the same. The disclosed formulations are free of chelators and stabilizes anti-PD1/anti-PD L1 antibody from lower to higher concentrations rendering it suitable for different modes of administration (subcutaneous/intravenous).

---

21: 2024/02562. 22: 2024/04/02. 43: 2025/06/02
51: B60L
71: CATERPILLAR INC.
72: OTHMAN, JEFFERY, CONVERSE, PERRY D, BREWER, MICHAEL A, BARNICKEL, WILLIAM E, VITALE, ANDREW J
33: US 31: 17/492,895 32: 2021-10-04
**54: SYSTEM AND METHOD FOR CHARGING AN ELECTRIC VEHICLE**
00: -
A system (1) and method (100) for charging a plug-in electric vehicle (10) are disclosed. The system (1) includes a plug-in electric vehicle (10) having a frame (11), a rechargeable battery pack (14), a vehicle inlet (15), a positioning module (18), and a first communication module (19); and a battery charging station (20) having a plurality of connectors (21), an actuation mechanism (22), and a second communication module (23). The battery charging station (20) is in operative communication with the PEV (10), can anticipate an arrival of the PEV (10), and can ready a connector (21(a)) corresponding to the PEV's (10) vehicle inlet type. The method (100) includes monitoring one or more characterising parameters of a PEV (10), determining that the PEV (10) needs charging, routing the PEV (10) to a battery charging station (20), transmitting forecasting information and an identity of the PEV (10) to the battery charging station (20), and charging the PEV (10) at the battery charging station (20).

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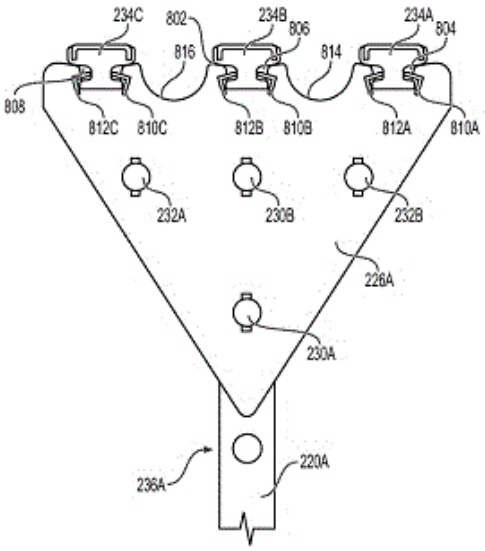
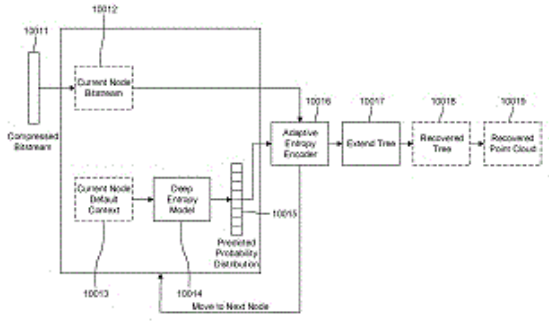
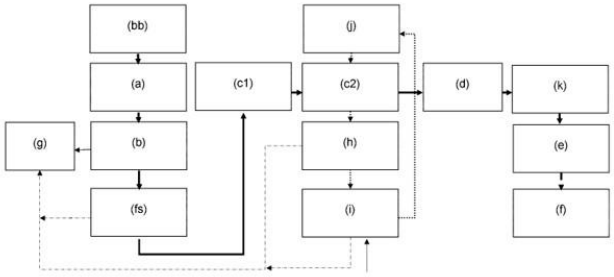
21: 2024/02564. 22: 2024/04/02. 43: 2025/06/03
51: B60M
71: CATERPILLAR GLOBAL MINING EQUIPMENT LLC
72: STRASHNY, IGOR
33: US 31: 17/563,339 32: 2021-12-28
**54: SYSTEM AND METHOD FOR SUPPORTING ELEVATED POWER RAILS**
00: -
A modular structure supports elevated rail segments (240) for delivering electrical power to a moving work machine (100), such as a hauler at a mining site. Opposite ends of a roadside barrier (204) contain complementary tubular couplers (206, 208) arranged vertically. A lower end of a dielectric post (220A) positioned in one of the tubular couplers has opposing dielectric plates (226A, 228A) at an upper end. A top edge (802) of each plate has a creepage concavity (814) between a pair of rail recesses (804, 806). Another dielectric post (220B) of similar configuration is positioned in the other of the tubular couplers. Holes within the couplers and the posts ensure alignment of respective rail recesses in which conductive rails (234A) are placed. Dielectric inserts (810A, 812A) frictionally lock the rails into the rail recesses.




21: 2024/02622. 22: 2024/04/04. 43: 2025/06/02
51: G06T; H04N
71: INTERDIGITAL VC HOLDINGS, INC.
72: LODHI, MUHAMMAD ASAD, PANG, JIAHAO, TIAN, DONG
33: US 31: 63/252,482 32: 2021-10-05
**54: METHOD AND APPARATUS FOR POINT CLOUD COMPRESSION USING HYBRID DEEP ENTROPY CODING**
00: -
Methods and apparatuses for decoding and encoding point cloud data are described herein. A method may include accessing point cloud data compressed based on a tree structure. The method may further comprise fetching points in a neighborhood associated with a current node of the tree structure, and computing a feature using a point-based neural network module, based on three-dimensional (3D) locations of the fetched points. The method may include predicting, using a neural network module, an occupancy symbol distribution for the current node based on the feature, and determining the occupancy for the current node from the encoded bitstream and the predicted occupancy symbol distribution. The method may include computing another feature using a convolution-based neural network module, based on a voxelized version of the fetched points, and fusing the feature and the another feature with one or more known features of a current node to compose a comprehensive feature.

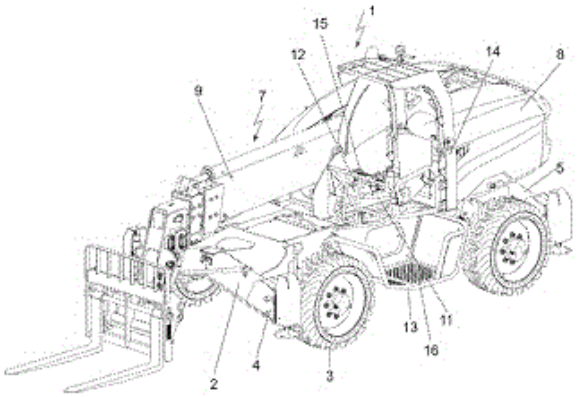



21: 2024/02934. 22: 2024/04/16. 43: 2025/07/16
51: B29B; B29K; B29L
71: ALPLA WERKE ALWIN LEHNER GMBH & CO. KG
72: Cornelius AMANN, Michael HEYDE
33: CH 31: CH070509/2021 32: 2021-11-05
**54: METHOD FOR RECYCLING POLYOLEFIN CONTAINERS**
00: -
The invention relates to a method for recycling polyolefin containers, comprising the following method steps: (a) container sorting, (b) intensive wash with comminution of the containers to form flakes, friction wash and density separation, (c) cleaning step, (d) flake sorting, (e) extrusion and granulation of the cleaned flakes. The cleaning step comprises (c1) a percolation of the flakes with cold sodium hydroxide solution at a temperature of < 60 °C, and (c2) a first deodorization of the flakes with steam carried out subsequently to step (c1).

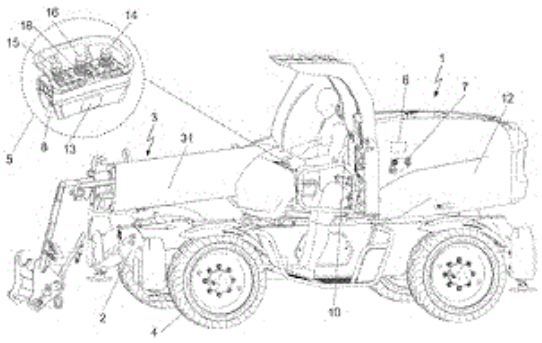



21: 2024/02938. 22: 2024/04/16. 43: 2025/06/04
51: B66F
71: MANITOU BF
72: BREHIER, VALENTIN, LAIR, CHARLOTTE, GABILLARD, GUILLAUME
33: FR 31: FR2110245 32: 2021-09-29
**54: MACHINE FOR HANDLING A LOAD OR A PERSON**
00: -

A machine (1) for handling a load or a person, comprising: - a wheeled chassis (2) having a first part (4) and a second part (5) and two lateral sides connecting the first and second parts, - a handling system (7) borne by the chassis (2) and comprising a rotary turret surmounted by a pivoting arm (9) mounted so as to pivot on the turret (8) between a lower position and an upper position, - and at least one driver's compartment (11) of the machine that is borne by the chassis (2) and delimits a location for an operator, - at least one member (15) for controlling the members (3) for movement on the ground, and - at least one system (12) for controlling the handling system (7), the or one of the control systems (12) being configured to allow the handling system (7) of the machine to be controlled at least outside of the driver's compartment(s) (11) of the machine (1). The or at least one of the driver's compartments (11) of the machine (1) is in at least two parts and comprises a lower part (13) secured to the chassis (2) and arranged along one lateral side of the chassis (2), and an upper part (14) coupled in movement to the turret (8).



21: 2024/02939. 22: 2024/04/16. 43: 2025/06/04
51: B66F
71: MANITOU BF
72: GABILLARD, GUILLAUME
33: FR 31: 2110245 32: 2021-09-29
**54: HANDLING MACHINE**
00: -
A handling machine (1) comprising: - a wheeled chassis (2), - a system (3) for handling a load and/or a person, - a control console (5) for controlling the members (4) for driving on the ground and for controlling the handling system (3) of the machine (1), - a control unit (6). The control console (5) has at least three selectively activatable use configurations. The first and second use configurations are use configurations in which the control console (5) is carried directly or indirectly by the chassis (2) of the machine (1). The third use configuration is a configuration in which the control console (5) is able to operate away from the chassis (2) and from the handling system (3) of the machine (1). The control unit (6) comprises a system (7) for determining the use configuration of the control console (5) and is configured to control the machine (1) according to the determined use configuration.



21: 2024/02956. 22: 2024/04/17. 43: 2025/06/03
51: A61K; C07K
71: SERUM INSTITUTE OF INDIA PRIVATE LTD.
72: SOLI, POONAWALLA CYRUS, MHALASAKANT, DHERE RAJEEV, JANA, SWAPAN KUMAR, SHANTILAL, JAIN SHITAL, DATTATRAYA, MAHAJAN AMOL, SHANKAR, PAUL GOURAB , KUMAR, MALVIYA HITESH , JOSHI, CHETAN VILAS, MAHESH, GAUTAM MANISH, PRAKASH, KALE PRATHAMESH, PRASAD, GAIROLA SUNIL JAGDISH, DINESH, MALLYA ASHA, JAGDISHBHAI, SONI DIPEN, VARDHAMAN, PATNI SUSHIL, VIJAY, GAVADE VINAY
**54: METHODS FOR IMPROVING THE ADSORPTION OF POLYSACCHARIDE-PROTEIN CONJUGATES AND MULTIVALENT VACCINE FORMULATION OBTAINED THEREOF**
00: -
The present disclosure relates to vaccine compositions comprising pneumococcal polysaccharide-carrier protein conjugates. The present disclosure particularly relates to improved, stable, immunogenic multivalent Streptococcus pneumoniae polysaccharide-protein conjugate vaccine compositions having at least three distinct carrier proteins, preparing the vaccine compositions

and methods for prevention and/ or treatment of subjects with Streptococcus pneumoniae. These multivalent pneumococcal compositions will overcome carrier induced epitopic suppression, provide enhanced immune response for new serotypes (as compared to existing approved vaccines) and also help address the emergence of non-vaccine serotypes.

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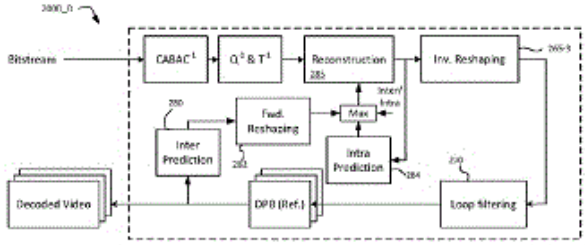
21: 2024/02957. 22: 2024/04/17. 43: 2025/06/25
51: H04N
71: DOLBY LABORATORIES LICENSING CORPORATION
72: YIN, PENG, PU, FANGJUN, LU, TAORAN, CHEN, TAO, HUSAK, WALTER J, MCCARTHY, SEAN THOMAS
33: US 31: 62/792,122 32: 2019-01-14
33: US 31: 62/726,608 32: 2018-09-04
33: US 31: 62/739,402 32: 2018-10-01
33: US 31: 62/691,366 32: 2018-06-28
33: US 31: 62/772,228 32: 2018-11-28
33: US 31: 62/630,385 32: 2018-02-14
33: US 31: 62/782,659 32: 2018-12-20
**54: IMAGE RESHAPING IN VIDEO CODING USING RATE DISTORTION OPTIMIZATION**
00: -
Given a sequence of images in a first codeword representation, methods, processes, and systems are presented for image reshaping using rate distortion optimization, wherein reshaping allows the images to be coded in a second codeword representation which allows more efficient compression than using the first codeword representation. Syntax methods for signaling reshaping parameters are also presented.

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21: 2024/02989. 22: 2024/04/17. 43: 2025/06/10
51: B65D
71: ALPLA WERKE ALWIN LEHNER GMBH & CO. KG
72: GÖPFERT, MAIK, KROON, STEFFEN
33: CH 31: 070339/2021 32: 2021-10-01
**54: CONTAINER CLOSURE AND CONTAINER**
00: -
The invention relates to a container and to a container closure (100). The container closure (100) comprises a main body (1) for fastening to a container, and a metering unit (2) for the metered dispensing of a liquid. The metering unit (2) has a metering body (4) comprising a discharge opening (21), and has a channel (22) adjoining the discharge opening (21). The channel (22) extends in the direction of the container and forms, together with the metering unit (2), an annular groove (23). A metering cap (3) is arranged on the metering unit (2). A metering cap (3) closes the annular groove (23) to form an annular volume (V). The annular volume (V) is connected to a buffer volume (27) by a first opening (24) and to the channel (22) by a second opening (25). The first opening (24) and the second opening are arranged such that any liquid that flows from the first opening (24) to the second opening (25) passes through the annular volume (V), at least along a portion of the annular volume (V), in a direction around the channel (22).

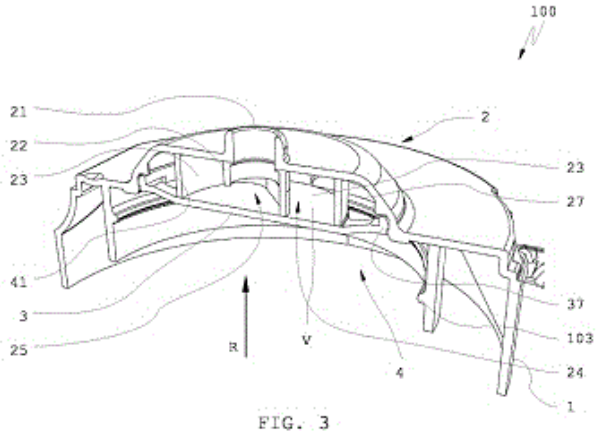

FIG. 3

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21: 2024/03031. 22: 2024/04/18. 43: 2025/06/03
51: A61M
71: MEDIVENA SP. Z O.O.
72: MOLEDA, JAROSLAW
33: US 31: 17/494,904 32: 2021-10-06
**54: METHOD INVOLVING A NEEDLE-BASED DEVICE WITH A SAFETY MECHANISM IMPLEMENTED THEREIN**
00: -
A method includes protecting an entire length of a needle of a needle-based device in a first state of disuse thereof with a needle cap, encompassing, by

a needle shield, the entire length of the needle and at least a partial length of the needle cap in the first state of disuse, and encompassing an entire protruding length of the needle cap outside the needle shield within a safety cap and securing the safety cap onto an outer surface of the needle shield such that the needle and the needle cap are completely protected and covered during the first state of disuse. Following removing the safety cap along with the needle cap from the needle shield, the method also includes retracting the needle shield to cause the needle to emerge out of the needle shield to prepare the needle-based device for a second state of use thereof.

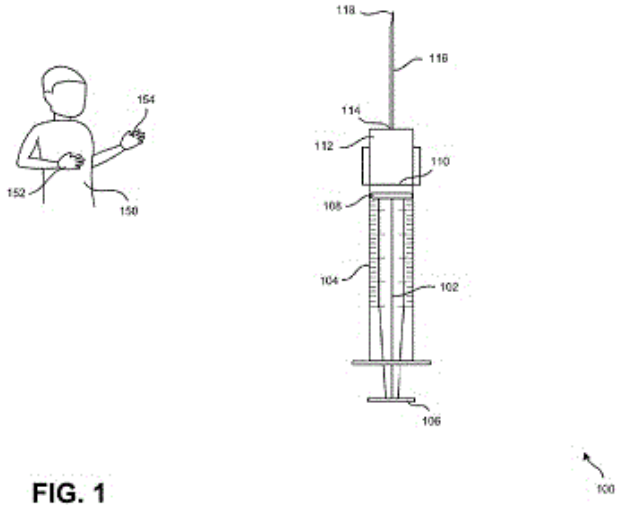
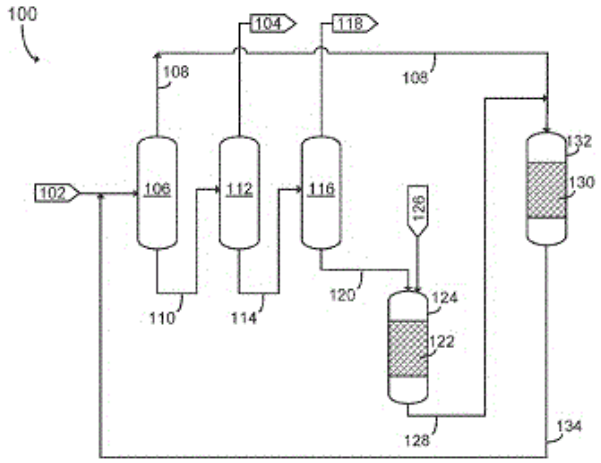
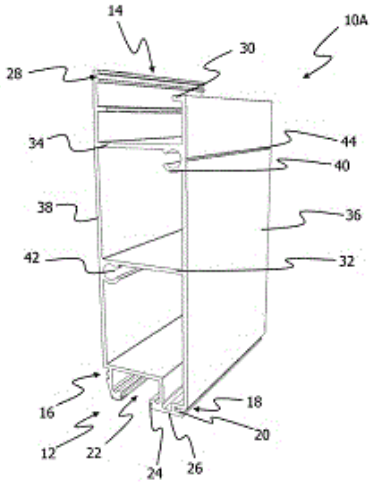



**FIG. 1**

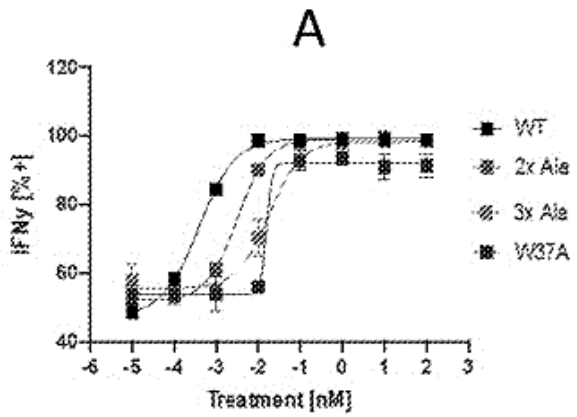
21: 2024/03033. 22: 2024/04/18. 43: 2025/06/03
51: C10G
71: VIRENT, INC.
72: BLOMMEL, PAUL G, VAN STRATEN, MATTHEW, DALLY, BRICE
33: US 31: 63/255,817 32: 2021-10-14
**54: METHODS FOR REFORMING A HEAVY AROMATIC STREAM**
00: -
Processes, catalysts, and reactor systems for reforming heavy aromatic compounds ($C_{11+}$) into $C_{6-8}$ aromatic compounds are disclosed. Also disclosed are processes, catalysts, and reactor systems for producing aromatic compounds and liquid fuels from oxygenated hydrocarbons, such as carbohydrates, sugars, sugar alcohols, sugar degradation products, and the like.




21: 2024/03035. 22: 2024/04/18. 43: 2025/06/10
51: F24S; H02S
71: SCHLETTER INTERNATIONAL B.V.
72: ZAPFE, CEDRIK, ELSNER, TILMANN, BRAUNERSREUTHER, KORBINIAN
33: DE 31: 10 2021 125 841.3 32: 2021-10-05
**54: SUPPORT ELEMENT FOR SUPPORTING A SOLAR MODULE**
00: -
The invention relates to a support system for supporting a solar module, wherein the support element (10) includes at least one first coupling portion (12) and at least one second coupling portion (14), the at least one first coupling portion (12) being provided with at least one hooking receptacle (18) and at least one locking formation (16), the at least one locking formation (16) being formed on an outer face and/or an inner face of the support element (10).



21: 2024/03036. 22: 2024/04/18. 43: 2025/06/03
51: C07K; A61K; A61P; C12N
71: SYNTHEKINE, INC.
72: ROKKAM, DEEPTI, LUPARDUS, PATRICK J
33: US 31: 63/257,913 32: 2021-10-20
**54: HETERODIMERIC FC CYTOKINES AND USES THEREOF**
00: -
The present disclosure provides IL12 and IL23 muteins as partial agonists comprising modified human p40 molecules that associate with human p35 (hP35) and human P19 (hP19) to form modified hIL-12 and IL23 partial agonists wherein the individual components of IL12 and IL23 muteins are linked to engineered Fc domains




21: 2024/03052. 22: 2024/04/19. 43: 2025/06/03
51: B64D
71: P.D. OF MIAMI, INC.
72: COE, WILLIAM JOHN, KAPP, IGNATIUS
33: US 31: 63/072,221 32: 2020-08-30
**54: WING CARGO PARACHUTE SYSTEM UTILIZING DYNAMIC BRAKING TO REDUCE OPENING SHOCK**
00: -
Methods of reducing wing type parachute (1) opening shock during a parachute drop, and parachute systems with reduced opening shocks are disclosed, the opening force reduction is achieved by dynamic braking, i.e. dynamically adjusting the canopy control lines (30) during the inflation stage of the canopy. Typically, the control lines are set to substantially zero brake length when the parachute canopy is released from the deployment bag, and are at least shortened during the inflation stage, optionally all the way to full brake. Optionally the control lines are also lengthened prior to completion of the canopy inflation. Other features and parachute systems are also disclosed.

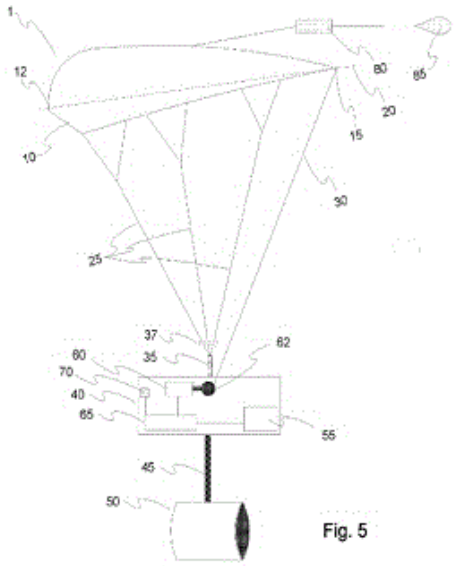
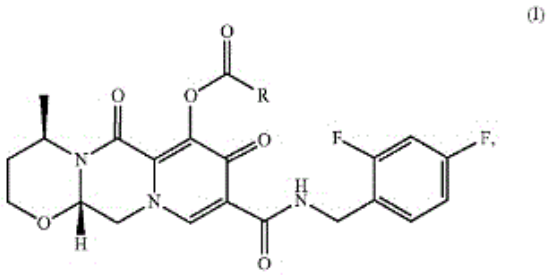


Fig. 5

21: 2024/03101. 22: 2024/04/22. 43: 2025/06/03
51: A61K; C07D
71: BOARD OF REGENTS OF THE UNIVERSITY OF NEBRASKA
72: GENDELMAN, HOWARD E, EDAGWA, BENSON
33: US 31: 62/748,798 32: 2018-10-22
**54: ANTIVIRAL PRODRUGS AND NANOFORMULATIONS THEREOF**
00: -
The present invention provides a compound of formula I, nanoparticles and pharmaceutical compositions thereof.


(I)

21: 2024/03114. 22: 2024/04/22. 43: 2025/06/03
51: C07K; A61P; C12N
71: NAVIGO PROTEINS GMBH
72: BOSSE-DOENECKE, EVA, GLOSER-BRAEUNIG, MANJA, LOTZE, JONATHAN,

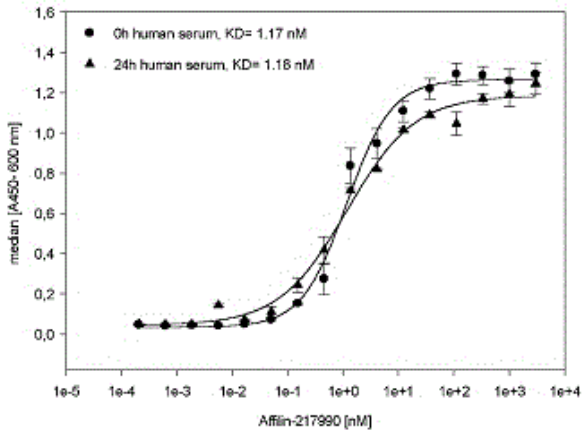
KATZSCHMANN, ANJA, COBURGER, INA, BOECKER, HEIKE, BOBOLOWSKI, HANNA
33: EP 31: 22156353.9 32: 2022-02-11
33: EP 31: 21211160.3 32: 2021-11-29

**54: SPECIFIC BINDING MOLECULES FOR FIBROBLAST ACTIVATION PROTEIN (FAP)**

00: -

The present invention relates to new ubiquitin derived molecules that bind specific to Fibroblast Activation Protein (FAP). The invention further refers to FAP binding ubiquitin derived molecules (Affilin®) proteins that further comprise a diagnostically or therapeutically active component. Further aspects of the invention cover such FAP binding proteins for a use in medicine, for example, for a use in diagnosis (including imaging) or treatment of FAP related tumors.

**FIGURE 3A: Binding affinity of Affilin®-217990 in human serum**




21: 2024/03116. 22: 2024/04/22. 43: 2025/06/04
51: B02C
71: METSO USA INC.
72: REZNITCHENKO, VADIM, HARBOLD, KEITH
33: US 31: 17/546,215 32: 2021-12-09

**54: ROLLER CRUSHER AND METHOD FOR OPERATION THEREOF**

00: -

A scraper device for a roller crusher, which scraper device includes a rotatable multi head scraper unit having at least two scrapers arranged tangentially about the rotatable multi head scraper unit at a respective radial distance from a rotational axis of the rotatable multi head scraper unit. The scraper device further includes a rotation actuator arranged to selectively rotate the rotatable multi head scraper unit to allow operative use of one of the at least two scrapers at a time. The scraper device further includes at least one brake arrangement configured to prevent and/or restrict rotation of the rotatable multi head scraper unit during operation of the one of the at least two scrapers. A roller crusher including the scraper device and a method for operating the roller crusher is also provided.

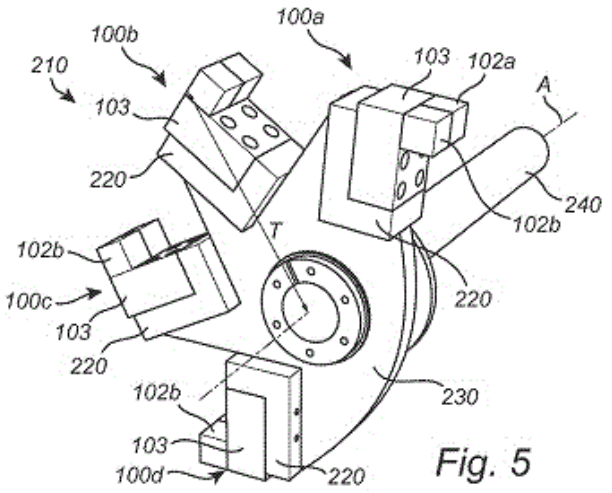



Fig. 5

21: 2024/03118. 22: 2024/04/22. 43: 2025/06/04
51: C12M; C12P; C12N; A23J; A23L
71: MARINE BIOENERGY AS
72: HAUGEN, ARNSTEIN, FRANTZEN, TORSTEIN, ELJE, EIRIK, DUSTAN, ANDREW CHARLES, LIASET, BJØRN, SANDNES, KJARTAN
33: GB 31: 2115923.1 32: 2021-11-05

**54: DEMINERALISATION OF ORGANIC TISSUE**

00: -

A method of processing an organic feedstock comprising mineralised tissues comprise: carrying out enzymatic hydrolysis of the organic feedstock to produce hydrolysis fractions and mineralised tissue remnants, wherein the mineralised tissue remnants comprise a proteinaceous portion; separating the mineralised tissue remnants from the hydrolysis fractions; and demineralising the mineralised tissue remnants to produce solubilised minerals and demineralised tissue remnants.

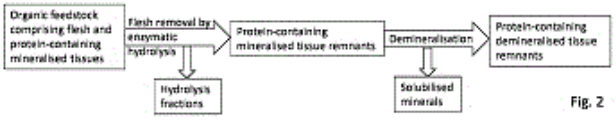



Fig. 2

21: 2024/03154. 22: 2024/04/23. 43: 2025/06/04
51: E04B; A62C
71: HENCO INDUSTRIES, NAAMLOZE VENNOOTSCHAP
72: VAN RIJN, ROBERTUS, LENAERTS, WOUTER
33: DE 31: 10 2021 128 849.5 32: 2021-11-05

**54: ENCLOSURE FOR MOUNTING AN EXTINGUISHING DEVICE OF A FIREFIGHTING SYSTEM, MOUNTING DEVICE, AND METHOD FOR MOUNTING AN EXTINGUISHING DEVICE OF A FIREFIGHTING SYSTEM**

00: -

The invention relates to an enclosure (10) for mounting an extinguishing device (1) of a firefighting system in a concrete or reinforced concrete slab (2) to be poured, the enclosure comprising a body (15) which is provided for remaining in the concrete or reinforced concrete slab (2) in its cured state. The body (15) has a lower side (16) by means of which the body (15) can be placed on a formwork (21) provided to delimit the concrete or reinforced concrete slab (2) during production of the concrete or reinforced concrete slab (2), wherein the body (15) defines an interior (9) which is open towards the lower side (16) and which forms a receiving region (8) for an extinguishing head (3) of the extinguishing device (1). A passage (18) leads into the interior (9), which passage is provided for running a connection through between the receiving region (8) and at least one connecting line (6, 7) for the extinguishing head (3). In order to create an enclosure (10) by means of which reliable protection of the receiving region (8) during the pouring of the concrete or reinforced concrete slab (2) is ensured and which can also be left in the slab without any problems, the body (15) of the enclosure (10) is made entirely of concrete.

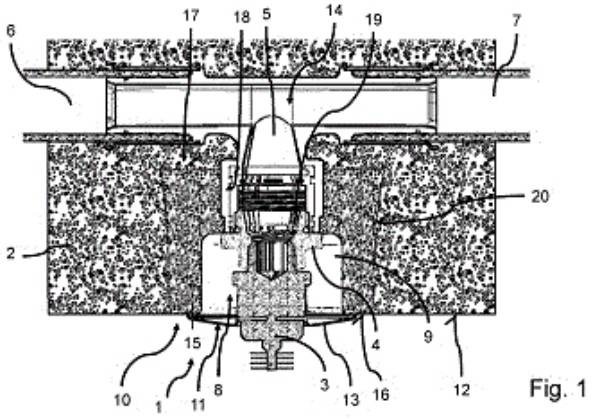


Fig. 1

21: 2024/03155. 22: 2024/04/23. 43: 2025/06/04
51: B62D
71: LUVLY AB
72: HÅKAN GLANTON, LUTZ
33: EP 31: 21202797.3 32: 2021-10-15

**54: SANDWICH PLATE ELEMENT CONNECTION SYSTEM AND METHOD FOR CONNECTING SANDWICH PLATE ELEMENTS**

00: -

The present invention relates to a sandwich plate element connection system (1, 2, 3, 4, 5), comprising two sandwich plate elements (100) and a connection element (200, 400, 500, 600, 700) connecting said two sandwich plate elements (100) by means of an adhesive joint (250) and defining two recesses (210, 220, 410, 420, 510, 520, 530, 610, 620, 630, 640). The connection element (200, 400, 500, 600, 700) comprises a first part (200:1, 400:1, 500:1, 600:1, 700:1) and a second part (200:2, 400:2, 500:2, 600:2, 700:2) connected to each other by a snap fit joint (270, 470, 570, 670, 770), for formation of at least one of said two recesses (210, 220, 410, 420, 510, 520, 530, 610, 620, 630, 640). The adhesive joint (250) comprises an adhesive (260). A chassis (10) for a vehicle comprising a sandwich plate element connection system (1, 2, 3, 4, 5) and a method (20) for connecting two sandwich plate elements (100) are also provided.

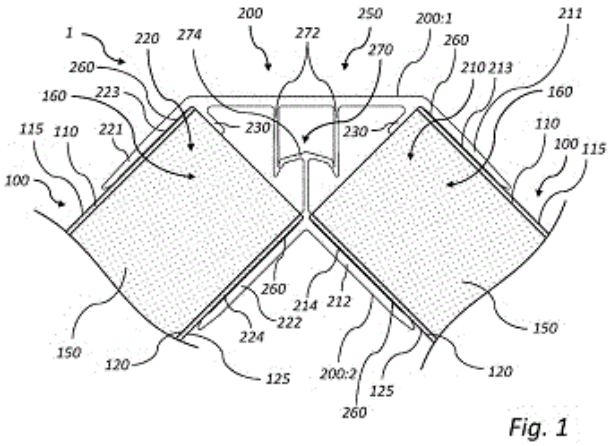


Fig. 1

21: 2024/03156. 22: 2024/04/23. 43: 2025/06/04
51: C12N; C12P; C40B
71: ALVOTECH HF
72: MIRZADEH, KIAVASH, VIKSTRÖM, DAVID, ISMAIL, NURZIAN, SAMUELSON, PATRIK, BARASZKIEWICZ, MARIUSZ, SALIH, TAGRID, SZEKÉR, KATHLEEN, CHUI, DANIEL, GUDISE,

SANTHOSH, EDEBRINK, PER, KADOW, MARIA, STEFANSSON, KARIN, STRANDBERG, KRISTIN
33: SE 31: 2130261-7 32: 2021-09-24
33: SE 31: 2130264-1 32: 2021-09-24
33: SE 31: 2130258-3 32: 2021-09-24
33: SE 31: 2130263-3 32: 2021-09-24
33: SE 31: 2130259-1 32: 2021-09-24

**54: DNA CONSTRUCTS AND HOST CELLS FOR EXPRESSING RECOMBINANT PROTEIN**

00: -

A DNA construct for expressing a recombinant protein, wherein the DNA construct comprises: - at least one of the nucleotide sequences of SEQ ID No 20 and 21, wherein a nucleotide sequence of SEQ ID 20 and 21 is a TIR sequence; and - a nucleotide sequence which encodes a signal peptide; and wherein a nucleotide sequence of SEQ ID No 20 and 21 comprises at least the first 9 nucleotides of said signal peptide encoding sequence.

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21: 2024/03157. 22: 2024/04/23. 43: 2025/06/04
51: A61Q; A61K
71: UNILEVER GLOBAL IP LIMITED
72: WEBB, NICHOLAS, ZDRAVKOVA, ANELIYA NIKOLOVA
33: EP 31: 21211174.4 32: 2021-11-29

**54: HYDRATABLE CONCENTRATED SURFACTANT COMPOSITIONS**

00: -

A fast diluting hydratable concentrated surfactant composition is provided, that comprises: a) from 30 to 50 wt % of anionic surfactant selected from sodium laureth ether sulphate, sodium pareth ether sulphate and mixtures thereof, by weight based on the total weight of the composition; b) from 4 to 12 wt %, of a co-surfactant, which is selected from a betaine, cocamide monoethanolamide and mixtures thereof, based on the total weight of the hydratable concentrated surfactant composition; c) from 0.2 to 3 wt %, by weight of the total composition, of sodium benzoate; d) an additional phase modifier selected from nonionic esters esters comprising a carbon chain having a carbon chain length of C8 – C12; e) from 0.2 to 3 wt % of a viscosity modifier, by weight of the total composition, which is an inorganic electrolyte; f) from 10 to 60 % by weight water by weight of the total composition; wherein the surfactants are in a lamellar phase; and wherein the hydratable concentrated surfactant composition has a pH of from 3 to 6; and wherein the hydratable concentrated surfactant composition has a viscosity of from 8,000 to 200,000 mPas-1 (cps), when measured at 30°C on a Brookfield DV2T using a Spindle RV-05 at 20 rpm for 60 seconds on a Helipath stand; and wherein the weight ratio of a) the anionic surfactant to b) the co- surfactant is from 3:1 to 10:1. wherein the weight ratio of sodium benzoate (c) to total surfactant (a) + (b) is 1:5 to 1: 75, preferably from 1:10 to 1:65, most preferably 1:15 to 1:50.

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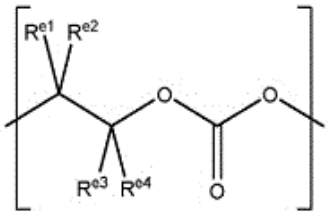
21: 2024/03158. 22: 2024/04/23. 43: 2025/06/04
51: C08G; C11D
71: UNILEVER GLOBAL IP LIMITED
72: BLACKBURN, ANTHEA, KEMBER, MICHAEL, WILLIAMS, CHARLOTTE, CROSSMAN, MARTIN CHARLES, WINTER, JEREMY NICHOLAS
33: GB 31: 2115335.8 32: 2021-10-25

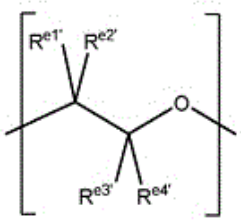
**54: COMPOSITIONS**

00: -

The invention concerns a composition comprising a polycarbonate block polyether of the formula (I) $Z^1$-$(PC)_P$-$(PE)_Q$-$Z^2$ wherein PC represents a carbonate block with P repeat units of formula (II) wherein $R^{e1}$, $R^{e2}$, $R^{e3}$, and $R^{e4}$ are independently selected from H, methyl, ethyl, propyl, butyl, or an ether, ester or carbonate group, with the proviso that when one of $R^{e1}$, $R^{e2}$, $R^{e3}$, and $R^{e4}$ is methyl, ethyl, propyl, butyl, or an ether, ester or carbonate group, the remaining $R^{e1}$, $R^{e2}$, $R^{e3}$, and $R^{e4}$ are H.; PE represents a polyether block with Q repeat units of formula (III) wherein $R^{e1'}$, $R^{e2'}$, $R^{e3'}$, and $R^{e4'}$ are independently selected from H, methyl, ethyl, propyl, butyl, or an ether, ester or carbonate groups, with the proviso that when one of $R^{e1}$, $R^{e2}$, $R^{e3}$, and $R^{e4}$ is methyl, ethyl, propyl, butyl, or an ether, ester or carbonate group, the remaining $R^{e1'}$, $R^{e2'}$, $R^{e3'}$, and $R^{e4'}$ are H; $Z^1$ is R, R-O, R-C(O)-O- or R-O-C(O)-O; R is an optionally substituted straight or branched chain $C_1$-$C_{11}$ alkyl group; $Z^2$ is H, R, R-(O)C or R-O-(O)C; and wherein the value of P does not exceed the value of Q.




(II)




(III)

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21: 2024/03159. 22: 2024/04/23. 43: 2025/06/04
51: A61K; A61P; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: GU, XUELAN
33: EP 31: 22151254.4 32: 2022-01-13
33: CN 31: PCT/CN2021/130878 32: 2021-11-16
**54: SKIN CARE COMPOSITION**
00: -
Disclosed is a skin care composition providing anti-inflammation benefits. The composition is comprising of coffee seed oil and a hydroxy-substituted $C_8$-$C_{24}$ fatty acid being 12-hydroxy stearic acid, wherein the weight ratio of the coffee seed oil to the hydroxy-substituted C8-C24 fatty acid is 1:5 to 15:1.

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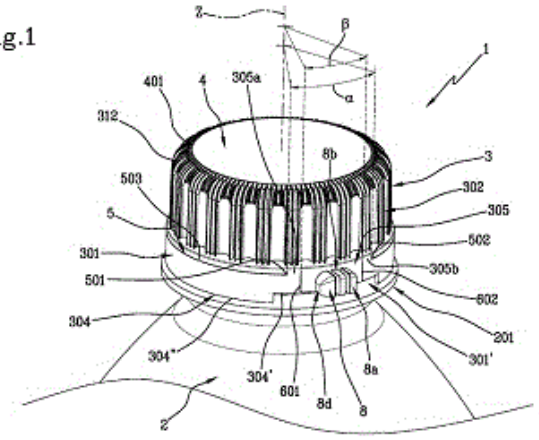
21: 2024/03160. 22: 2024/04/23. 43: 2025/06/04
51: B65D
71: SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA
72: BASSI, VITTORIO, FALZONI, ALESSANDRO
33: IT 31: 102021000028385 32: 2021-11-08
**54: CLOSING CAP FOR A CONTAINER**
00: -
What is proposed is a closing cap (1) for a container, comprising a lateral wall (3) extending around an axis and a transversal wall (4) positioned at one end of the lateral wall, a separating line being provided on the lateral wall to define a retaining ring (301), which is configured to remain anchored to the neck (201) of the container, and a closing element (302) removably engageable with the neck, so as to open or close the container. The separating line extends around the axis and is circumferentially interrupted to define in the lateral wall a joining zone (305), which extends circumferentially for a first angular portion, in which the retaining ring and the closing element are joined. The lateral wall comprises a first cut (601), a second cut (602) and a projection which projects from the lateral wall, wherein the first cut and the second cut extend circumferentially within a second angular portion which is contained in the first angular portion, the projection (8) being circumferentially positioned between the first cut and the second cut. The retaining ring comprises a retaining portion (303) and a free portion which extend as far as a free edge, the retaining portion being configured to internally engage with a stop ring (206) of the neck, during a passage from a closed condition to an open condition of the closing element; the free portion (306) being configured to allow an axial movement at least of the second angular portion of the retaining ring during said passage.

Fig.1

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21: 2024/03161. 22: 2024/04/23. 43: 2025/06/04
51: A61Q; A61K
71: UNILEVER GLOBAL IP LIMITED
72: WEBB, NICHOLAS, ZDRAVKOVA, ANELIYA NIKOLOVA
33: EP 31: 21211174.4 32: 2021-11-29
**54: HYDRATABLE CONCENTRATED SURFACTANT COMPOSITIONS**
00: -
A hydratable concentrated surfactant composition comprising: a) from 30 to 50 wt % of anionic surfactant selected from sodium laureth ether

sulphate, sodium pareth ether sulphate and mixtures thereof, by weight based on the total weight of the composition; b) from 4 to 12 wt %, of a co-surfactant, which is selected from a betaine, cocamide monoethanolamide and mixtures thereof, based on the total weight of the hydratable concentrated surfactant composition; c) from 0.2 to 3 wt %, by weight of the total composition, of sodium benzoate; d) an additional phase modifier selected from alkyl trimethyl ammonium compounds having an alkyl chain of C8 – C22 carbon atoms and salts thereof; e) from 0.2 to 3 wt % of a viscosity modifier, by weight of the total composition, which is an inorganic electrolyte; f) from 10 to 60 % by weight water by weight of the total composition; wherein the surfactants are in a lamellar phase; and wherein the hydratable concentrated surfactant composition has a pH of from 3 to 6; and wherein the hydratable concentrated surfactant composition has a viscosity of from 8,000 to 200,000 mPas-1 (cps), when measured at 30°C on a Brookfield DV2T using a Spindle RV-05 at 20 rpm for 60 seconds on a Helipath stand; and wherein the weight ratio of a) the anionic surfactant to b) the co- surfactant is from 3:1 to 10:1. wherein the weight ratio of sodium benzoate (c) to total surfactant (a) + (b) is 1:5 to 1: 75, preferably from 1:10 to 1:65, most preferably 1:15 to 1:50.

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21: 2024/03162. 22: 2024/04/23. 43: 2025/06/04
51: A61Q; A61K
71: UNILEVER GLOBAL IP LIMITED
72: WEBB, NICHOLAS, ZDRAVKOVA, ANELIYA NIKOLOVA
33: EP 31: 21211171.0 32: 2021-11-29
**54: HYDRATABLE CONCENTRATED SURFACTANT COMPOSITIONS**
00: -
Quick dilution and excellent rheology can be achieved with a hydratable concentrated surfactant composition comprising: a) from 30 to 50 wt % of anionic surfactant selected from sodium laureth ether sulphate, sodium pareth ether sulphate and mixtures thereof, by weight based on the total weight of the composition; b) from 4 to 12 wt %, of a co-surfactant, which is selected from a betaine, cocamide monoethanolamide and mixtures thereof, based on the total weight of the hydratable concentrated surfactant composition; c) from 0.2 to 3 wt % of a phase modifier, by weight of the total composition, which is sodium benzoate; d) from 2 to 7 wt % of a viscosity modifier, by weight of the total composition, which is an inorganic electrolyte; e) from 10 to 60 % by weight water by weight of the total composition; wherein the surfactants are in a lamellar phase; and wherein the hydratable concentrated surfactant composition has a pH of from 3 to 6; and wherein the hydratable concentrated surfactant composition has a viscosity of from 8,000 to 200,000 mPas-1 (cps), when measured at 30°C on a Brookfield DV2T using a Spindle RV-05 at 20 rpm for 60 seconds on a Helipath stand; and wherein the weight ratio of a) the anionic surfactant to b) the co- surfactant is from 3:1 to 10:1. wherein the weight ratio of sodium benzoate (c) to total surfactant (a) + (b) is 1:5 – 1: 75, preferably from 1:10 – 1:65, more preferably 1:15 – 1:50.

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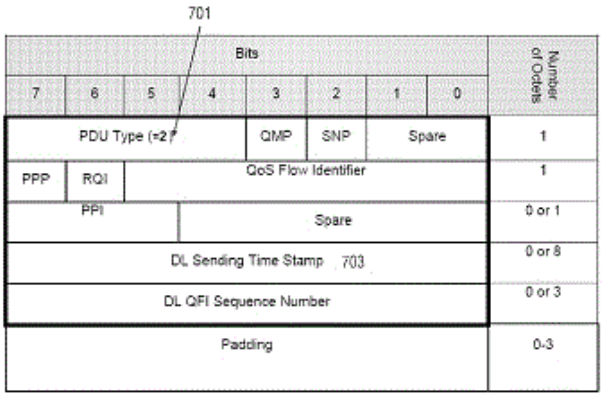
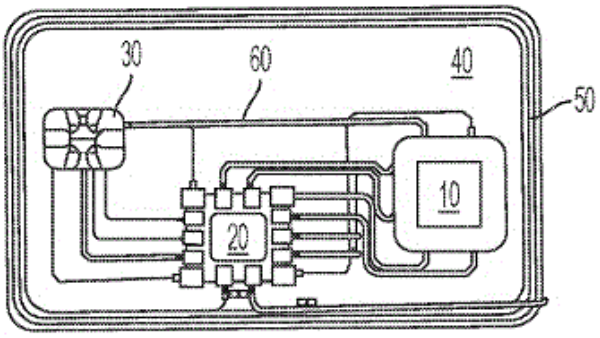
21: 2024/03229. 22: 2024/04/25. 43: 2025/06/05
51: H04W
71: ZTE CORPORATION
72: TAN, JIE, DAI, BO, SHA, XIUBIN, LU, TING, GAO, YUAN
**54: PROTOCOL DATA UNIT (PDU) SESSION INFORMATION FOR DIFFERENT NETWORK SERVICE TYPES**
00: -
Methods, apparatus, and systems that enable speedy and accurate scheduling of data transmission for various services types, such as deterministic networking services. In one example aspect, a method for wireless communication includes transmitting or receiving, by a base station, data packets with Protocol Data Unit (PDU) session information frames. The data packets are associated with one or more service types and each of the PDU session information frames includes a time stamp field. The method also includes scheduling, by the base station, subsequent data packets based on the time stamp field in at least one of the PDU session information frames.

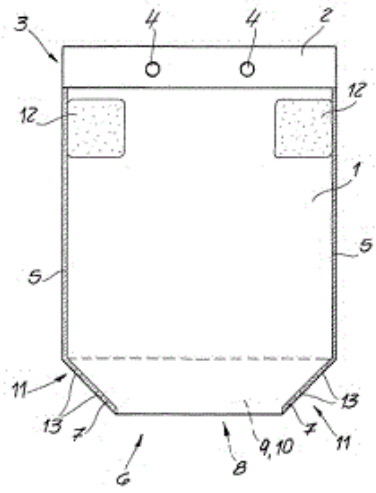



21: 2024/03249. 22: 2024/04/26. 43: 2025/06/05
51: G06K
71: COMPOSECURE, LLC
72: LOWE, ADAM
33: US 31: 62/925,926 32: 2019-10-25
**54: METAL CARD WITH BIOMETRIC FEATURES**
00: -
Metal transaction cards and methods of making metal transaction cards are disclosed. One metal transaction card includes at least one metal layer and an inlay layer comprising a biometric sensor and one or more payment interface components configured to interface with a card reader, a secure element configured to exchange information with the card reader pursuant to processing a financial transaction, and at least one logic component connected to the biometric sensor. The logic component is configured to compare information detected by the biometric sensor to stored information and to enable processing of the financial transaction only upon a detected match between the detected and stored information.




21: 2024/03279. 22: 2024/04/26. 43: 2025/06/04
51: C05C; C05F
71: CCM TECHNOLOGIES LIMITED
72: HAMMOND, PETER
33: GB 31: 2117190.5 32: 2021-11-29
**54: METHOD FOR PREPARING A FERTILISER COMPOSITION**
00: -
A method of preparing a fertiliser composition, the method comprising the steps of: (i) providing a digestate material; (ii) contacting the digestate material with a composition comprising carbon dioxide; (iii) contacting the material obtained in step (ii) with a source of nitrate and/or sulfate; and (iv) admixing the material obtained in step (iii) with urea.

21: 2024/03282. 22: 2024/04/26. 43: 2025/06/04
51: B65D
71: MONDI AG
72: VOHMYAKOV, ILYA, SHEPETUN, ALEXANDER, PERICK, MATTHIAS
33: EP 31: 21217457.7 32: 2021-12-23
**54: PACKAGING BAG AND USE OF THE PACKAGING BAG**
00: -
The invention relates to a packaging bag comprising a web having a front wall (1), a rear wall (2) projecting beyond the front wall (1) on an open top bag edge, stacking openings (4) disposed in the section of the rear wall (2) projecting beyond the front wall (1), the web being formed at least in part of paper. The front wall (1) and the rear wall (2) have chamfered corners (7) at a bottom bag edge (6) opposite the top bag edge.




21: 2024/03286. 22: 2024/04/26. 43: 2025/06/04
51: F24T; C09K; E21B
71: MCINTYRE, JACK

72: MCINTYRE, JACK
33: US 31: 63/272,094 32: 2021-10-26
33: US 31: 17/970,845 32: 2022-10-21
**54: FRACTURING HOT ROCK**
00: -
A system and method for harnessing geothermal energy using fracturing of hot rock. The system has at least a first well and a second well. The method involves introducing an alkali metal downhole in a first well. A solution is also introduced into the first well. The solution produces an exothermic reaction with the alkali metal. The gas and heat fracture the hot rock producing fractures. The fractures fluidly connects the first well to the second well. A solution, such as water, can be pumped through the first well, through the fractures, and into the second well. The hot rock passes geothermal energy to the water which can then be utilized.

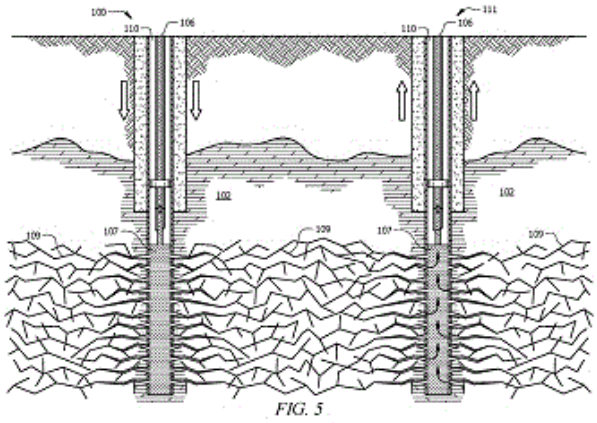
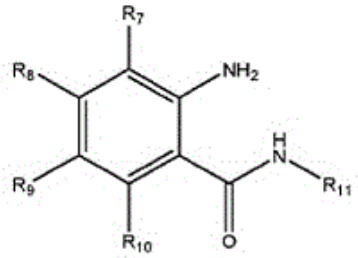


FIG. 5

21: 2024/03308. 22: 2024/04/29. 43: 2025/06/04
51: C07D; C07C
71: FMC CORPORATION, FMC AGRO SINGAPORE PTE. LTD.
72: CHEN, LIANG, FAN, YEFENG, MAO, JIANHUA, XU, ZHIJIAN
33: US 31: 62/929,138 32: 2019-11-01
**54: AN EFFICIENT NEW PROCESS FOR SYNTHESIS OF 2-AMINO-5-CHLORO-N-,3-DIMETHYLBENZAMIDE**
00: -
Described herein are novel methods of synthesizing 2-amino-5-chloro-N,3- dimethylbenzamide. Compounds prepared by the methods disclosed herein are useful for preparation of certain anthranilamide compounds that are of interest as insecticides, such as, for example, the insecticides chlorantraniliprole and cyantraniliprole.



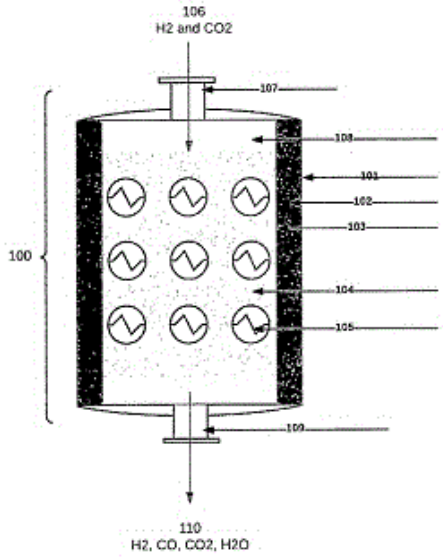
(Formula VI)

21: 2024/03319. 22: 2024/04/29. 43: 2025/07/25
51: A61K; A61P
71: EBERHARD KARLS UNIVERSITÄT TÜBINGEN MEDIZINISCHE FAKULTÄT
72: Dr. Jana HELD, Dr. Lais PESSANHA DE CARVALHO, Sara GRÖGER OTERO, Dr. Peter G. KREMSNER
33: EP 31: 21205968.7 32: 2021-11-02
**54: GAMETOCYTOCIDAL COMPOUND**
00: -
The present invention relates to a new compound for the inhibition of the transmission of malaria in humans, a pharmaceutical composition comprising said compound, and a method for the inhibition of the transmission of malaria in humans comprising the administration of said compound.

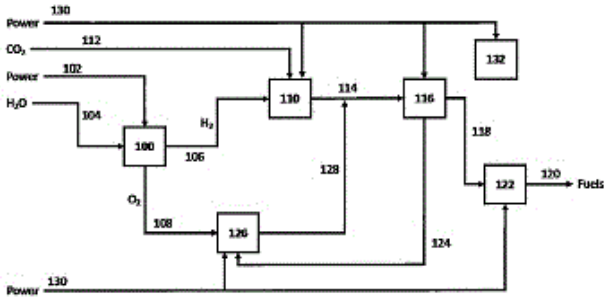
21: 2024/03332. 22: 2024/04/29. 43: 2025/06/04
51: C01B; B01J; C10K
71: INFINIUM TECHNOLOGY, LLC
72: SCHUETZLE, DENNIS, SCHUETZLE, ROBERT, GALLOWAY, ANJA RUMPLECKER, HANBURY, ORION, BUCHER, JAMES, RODRIGUEZ, RAMER
33: US 31: 17/300,828 32: 2021-11-19
**54: IMPROVED CATALYTIC REACTOR FOR THE CONVERSION OF CARBON DIOXIDE AND HYDROGEN TO SYNGAS**
00: -
The present invention is generally directed to a reactor for the production of low-carbon syngas from captured carbon dioxide and renewable hydrogen. The hydrogen is generated from water using an electrolyzer powered by renewable electricity or from any other method of low-carbon hydrogen production. The improved catalytic reactor is energy efficient and robust when operating at temperatures up to 1800°F. Carbon dioxide conversion efficiencies are greater than 75% with carbon monoxide selectivity of greater than 98%. The catalytic reactor is constructed of materials that are physically and chemically robust up to 1800°F. As a result, these

materials are not reactive with the mixture of hydrogen and carbon dioxide or the carbon monoxide and steam products. The reactor materials do not have catalytic activity or modify the physical and chemical composition of the conversion catalyst. Electrical resistive heating elements are integrated into the catalytic bed of the reactor so that the internal temperature decreases by no more than 100°F from the entrance at any point within the reactor. The catalytic process exhibits a reduction in performance of less than 0.5% per 1000 operational hours.

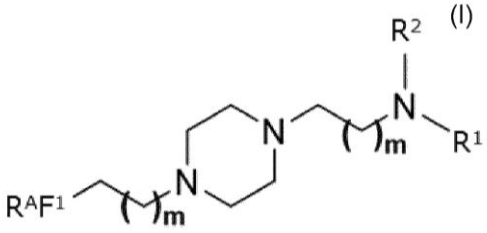
Fig. 1 – Improved Catalytic Reactor




21: 2024/03334. 22: 2024/04/29. 43: 2025/06/04
51: C07C; C01B; G05B
71: INFINIUM TECHNOLOGY, LLC
72: SCHUETZLE, DENNIS, SCHUETZLE, ROBERT, GALLOWAY, ANJA RUMPLECKER, MCGINNIS, GLENN, MATTANA, ALEX
33: US 31: 17/300,821 32: 2021-11-16
**54: SYSTEMS AND METHODS FOR CONTROLLING A POWER-TO-X PROCESS TO REDUCE FEEDSTOCK COSTS**
00: -
Provided herein are systems and methods for controlling production of low-carbon liquid fuels and chemicals. In an aspect, provided herein is a method controlling a process that produces e-fuels. In another aspect, provided herein is a system for producing an e-fuel from constituent ingredients H2 and CO2, with H2 produced via electrolysis powered by renewable electrical energy.

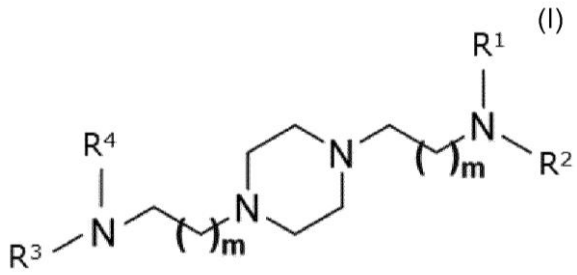



21: 2024/03337. 22: 2024/04/29. 43: 2025/07/31
51: A61K; C07D
71: ZIPHIUS NV
72: VALEMBOIS, Sophie, HAQUE, AKM Ashiqul, SAHU, Itishri, MC CAFFERTY, Séan, CARDON, Christiaan
33: EP 31: 21205899.4 32: 2021-11-02
**54: LIPID NANOPARTICLES FOR OLIGONUCLEOTIDE DELIVERY**
00: -
The current invention relates to ionizable lipid-like compound according to Formula (I) or pharmaceutically acceptable salt, tautomer, or stereoisomer thereof. The present invention also provides a lipid nanoparticle comprising an ionizable lipid-like compound according to Formula (I) and one or more RNA molecules, as well as a pharmaceutical composition or vaccine, comprising such lipid nanoparticles.



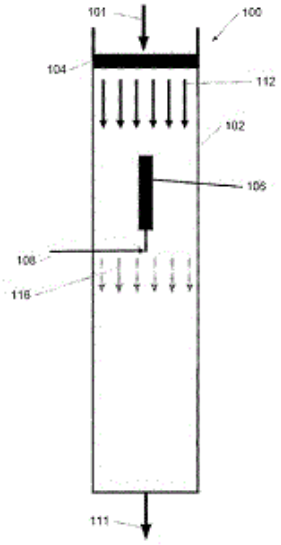

21: 2024/03360. 22: 2024/04/30. 43: 2025/08/05
51: A61K; C07D
71: ZIPHIUS NV
72: HAQUE, AKM Ashiqul, VALEMBOIS, Sophie, MC CAFFERTY, Séan, SAHU, Itishri, CARDON, Christiaan
33: EP 31: 21205904.2 32: 2021-11-02
33: EP 31: 22179399.5 32: 2022-06-16
**54: LIPID NANOPARTICLES FOR OLIGONUCLEOTIDE DELIVERY**
00: -
The current invention relates to ionizable lipid-like compound according to Formula (I) or

pharmaceutically acceptable salt, tautomer, or stereoisomer thereof. The present invention also provides a lipid nanoparticle comprising an ionizable lipid-like compound according to Formula (I) and one or more RNA molecules, as well as a pharmaceutical composition or vaccine, comprising such lipid nanoparticles.

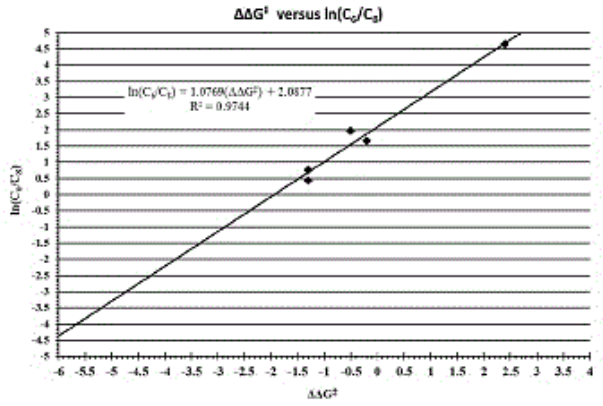



21: 2024/03377. 22: 2024/04/30. 43: 2025/06/04
51: A61Q; A61K
71: UNILEVER GLOBAL IP LIMITED
72: LAHORKAR, PRAFUL GULAB RAO, PERUMAL, RAJKUMAR, VAIDYA, ASHISH ANANT
33: EP 31: 21208863.7 32: 2021-11-17
**54: A PERSONAL CLEANSING COMPOSITION**
00: -
The present invention relates to a personal cleansing composition that provides improved SPF. Particularly, the composition comprises water-soluble UVA sunscreen, water-soluble UVB sunscreen; and an alkali. The invention also relates to a method of and use for providing improved SPF.

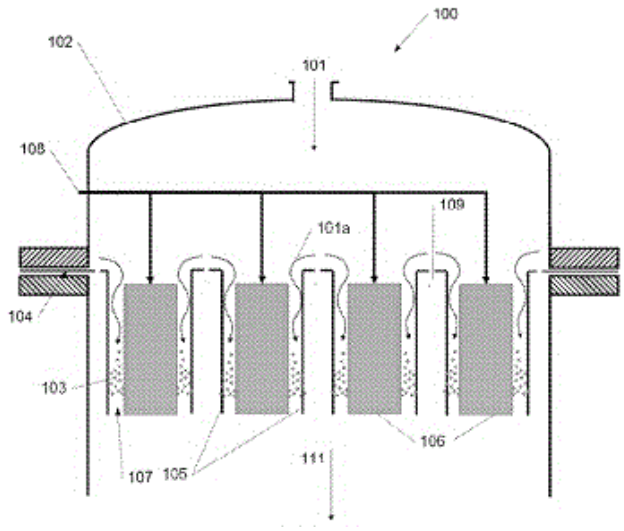
21: 2024/03379. 22: 2024/04/30. 43: 2025/06/04
51: B01F; C12M
71: LANZATECH, INC.
72: BRENC, RACHEL JANE, CONRADO, ROBERT JOHN, COOMBES, JOSS ANTON, EBRAHIMIAQDA, ELHAM, GAO, ALLAN HAIMING, HORTON, BRIAN NELSON, LI, XUELIANG, SATHE, MAYUR, STUDEBAKER, CURTIS PAUL
33: US 31: 17/453,476 32: 2021-11-03
**54: SYSTEM AND METHOD FOR GENERATING BUBBLES IN A VESSEL**
00: -
The systems and methods disclosed herein provide for the efficient generation of fine bubbles. In particular, systems and methods for use in bioreactors are disclosed herein providing a superior means to produce useful fermentation products by the biological fermentation of fine bubble waste substrates injected into a liquid broth containing a microorganism culture.



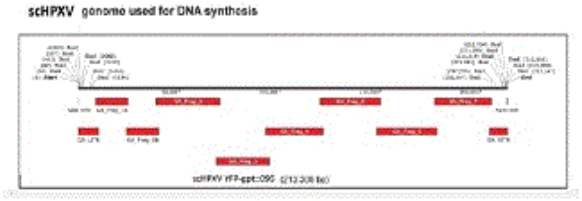

21: 2024/03380. 22: 2024/04/30. 43: 2025/06/04
51: B01J
71: CHEVRON PHILLIPS CHEMICAL COMPANY LP
72: BISCHOF, STEVEN, SYDORA, ORSON L, ESS, DANIEL H, KILGORE, URIAH J, KWON, DOO-HYUN
33: US 31: 17/521,494 32: 2021-11-08
**54: CHROMIUM PHOSPHINYL ISOINDOLE AMIDINE COMPLEXES FOR TETRAMERIZATION OF ETHYLENE**
00: -
The present disclosure relates to a catalyst system comprising i) (a) a bicyclic 2-[(phosphinyl)aminyl] cyclic imine chromium salt or (b) a chromium salt and a bicyclic 2-[(phosphinyl)aminyl] cyclic imine and ii) an organoaluminum compound. The present disclosure also relate to a process comprising: a) contacting i) ethylene; ii) a catalyst system comprising (a) a 2-[(phosphinyl)aminyl] cyclic imine chromium salt complex or (b) a chromium salt and a bicyclic 2-[(phosphinyl)aminyl] cyclic imine; ii) an organoaluminum compound, and iii) optionally an organic reaction medium; and b) forming an oligomer product in a reaction zone.




21: 2024/03385. 22: 2024/04/30. 43: 2025/06/04
51: C12M
71: LANZATECH, INC.
72: SATHE, MAYUR, COOMBES, JOSS ANTON, CONRADO, ROBERT JOHN, MORIN, GREGORY JOSEPH
33: US 31: 63/263,507 32: 2021-11-03
**54: REACTOR HAVING DYNAMIC SPARGER**
00: -
Systems and methods relating to dynamic spargers for generating fine bubbles within reactors such as biological and chemical reactors. A sparger system is positioned within a reactor and comprises a support plate, multiple annular shrouds engaged with the support plate, and spargers positioned within the annular shrouds defining a gap between an interior surface of the annular shroud and an exterior surface of the corresponding sparger. Liquid flows through the defined gap between an interior surface of the annular shroud and an exterior surface of the sparger. Acceleration of the liquid through the gap shears bubbles at the exterior surface of the sparger creating bubbles or fine bubbles.




21: 2024/03393. 22: 2024/05/02. 43: 2025/06/12
51: C12N; A61K
71: TONIX PHARMA LIMITED
72: EVANS, DAVID, NOYCE, RYAN, LEDERMAN, SETH
33: US 31: 62/434,794 32: 2016-12-15
33: US 31: 62/416,577 32: 2016-11-02
**54: SYNTHETIC CHIMERIC POXVIRUSES**
00: -
The invention relates, in general, to synthetic chimeric poxviruses, compositions comprising such viruses, and the development and use of systems and methods for producing such synthetic chimeric poxviruses. The synthetic chimeric poxviruses are well suited for live virus vaccines and pharmaceutical formulations.




21: 2024/03410. 22: 2024/05/02. 43: 2025/06/18
51: D04H A61K
71: GLATFELTER HOLDING (SWITZERLAND) AG
72: SINGH, Vinitkumar
33: DK 31: PA 2021 70495 32: 2021-10-06
33: US 31: 63/252,649 32: 2021-10-06
**54: BIODEGRADABLE WIPE**
00: -
The present invention relates to a biodegradable wipe having a three-dimensional perforated structure

pattern comprising a randomized web of pulp and spunlaced cellulosic fibres in a desired proportion, and optionally a colorant. The wipe in the present invention shows dual nature subject to wet or dry condition of the wipe and effectively traps and removes oily and sticky liquids without scratching underlying surfaces or irritating skin.

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21: 2024/03415. 22: 2024/05/02. 43: 2025/06/12
51: C07K; A61K; A61P; G01N; C12N
71: UNIVERSITE DE LILLE, INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE)
72: PREVARSKAYA, NATALIA, LEHEN'KYI, V'YACHESLAV, HAUSTRATE, AURÉLIEN
33: EP 31: 21306438.9 32: 2021-10-14
**54: ANTIBODIES AGAINST EXTRACELLULAR EPITOPES OF HUMAN TRPV6 CHANNEL AND THEIR DIAGNOSTIC AND THERAPEUTIC USES**
00: -
The invention relates to antibodies against extracellular epitopes of human Transient Receptor Potential Vanilloid 6 (TRPV6) channel protein, in particular antibodies which modulate TRPV6 channel activity on the plasma membrane and thereby trigger apoptosis of cancer cells expressing TRPV6. The invention relates also to the use of said antibodies for the diagnosis, prognosis and treatment of diseases involving TRPV6 channels, in particular diseases associated with TRPV6-expression such as cancers. The invention further relates to peptide antigens from human TRPV6 protein useful for the production of said antibodies.

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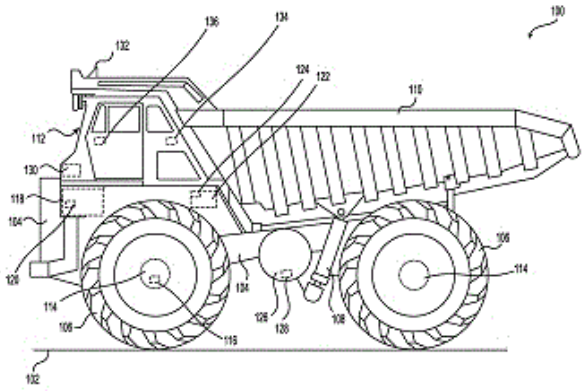
21: 2024/03436. 22: 2024/05/03. 43: 2025/06/12
51: B60L; B60K
71: CATERPILLAR GLOBAL MINING EQUIPMENT LLC
72: LANE, CAMERON THOMAS
33: US 31: 17/519,338 32: 2021-11-04
**54: EXTENDED RANGE OF FUEL CELL MACHINE**
00: -
A fuel cell machine control system and method to provide extended range and operating times of a fuel cell machine (100) with a fuel cell (122) and battery (118) is disclosed. In some cases, the energy capacity of the battery (118) relative to the energy capacity of a fuel tank (126) may be in the range of about 0.2 to about 1.5. The range and/or the operating time of the fuel cell machine (100) is extended by using the fuel cell fuel to power the fuel cell machine (100) and continuing operating the fuel cell machine (100) after the fuel cell fuel is depleted using the battery (118). In some cases, the fuel cell machine (100) may autonomously be moved to a refueling/charging station (202) when the remaining charge in the battery (118) is within a threshold level of being depleted. Additionally, a total energy available to operate the fuel cell machine (100) may be determined and displayed.



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21: 2024/03463. 22: 2024/05/06. 43: 2025/06/12
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: BIAN, WEI, WEI, PING
33: EP 31: 22151278.3 32: 2022-01-13
33: CN 31: PCT/CN2021/134721 32: 2021-12-01
**54: PERSONAL CARE COMPOSITION**
00: -
Disclosed is a personal care composition comprising retinoid, 0.01 to 10% of modified starch by weight of the composition, and sorbitan fatty acid ester, wherein the weight ratio of the sorbitan fatty acid ester to the retinoid is 0.4:1 to 1.4:1 and the weight ratio of the total modified starches to the sorbitan fatty acid ester is 1 :1 to 70:1.

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21: 2024/03484. 22: 2024/05/07. 43: 2025/07/11
51: C02F
71: BGRIMM Technology Group
72: Liu Yanli, Lin Xingjie, Liu Fengbiao, Yang Xiaosong, Qiao Jiyang, Zhang Kai, Shi Peiliang
33: CN 31: 2023114034746 32: 2023-10-26
**54: PROCESS FOR DEEPLY REMOVING FLUORINE FROM WASTEWATER BY MEANS OF INDUCED CRYSTALLIZATION METHOD IN SLUDGE BACKFLOW**
00: -

The present invention discloses a deep fluorine removal process for wastewater using sludge reflux-induced crystallization method. The method includes the following steps: Step 1, preparing lime slurry by mixing lime powder and deionized water in a crystallization reactor, and introducing calcite seeds into the reactor simultaneously; Step 2, introducing high-concentration acidic fluorine-containing wastewater into the reactor; Step 3, introducing the lime slurry prepared in Step 1 into the reactor of Step 2 for reaction, controlling the pH of the mixed solution to remain neutral during the reaction. The invention is based on the High-Density Sludge (HDS) process, utilizing the advantages of the HDS process such as effectively increasing sludge density, reducing lime consumption, facilitating operation, and improving water quality stability. It combines with induced crystallization technology to form a high-density sludge reflux-induced crystallization process, promoting precipitation and crystallization, facilitating rapid settling, shortening process time, and overcoming the shortcomings of traditional lime precipitation methods.

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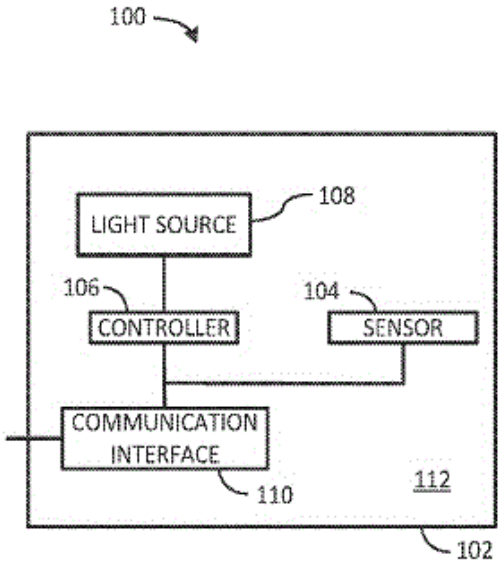
21: 2024/03489. 22: 2024/05/07. 43: 2025/06/12
51: H05B; F21V
71: ADB SAFEGATE BV
72: DININNO, DARYL M, MITCHELL, DOUGLAS A, STACHOW JR, ROBERT PAUL
33: US 31: 63/275,235 32: 2021-11-03
**54: AIRFIELD GROUND LIGHT WITH INTEGRATED LIGHT CONTROLLER THAT EMPLOYS POWERLINE COMMUNICATIONS AND SENSORS**
00: -
Disclosed in an example embodiment herein is an airfield luminaire, comprising a housing, a light source in an interior of the housing, a sensor for sensing a condition associated with the housing, and control logic comprising a processor coupled with the light source and the sensor. The control logic is operable to obtain data from the sensor and determine a status of the airfield luminaire. In another example embodiment, a controller is operable to receive data representative of sensor data from the plurality of airfield lighting fixtures and determine the status of a selected one of the plurality if lighting fixtures based on the sensor data. In yet another example embodiment control logic that comprises a processor is operable to determine the present light output of a LED based on aging rate and amount of time the LED is operated at a plurality of temperatures.

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21: 2024/03493. 22: 2024/05/07. 43: 2025/06/12
51: C03C
71: ARKEMA FRANCE
72: HOEKMAN, LEENDERT
33: FR 31: FR 2112813 32: 2021-12-01
**54: FORMULATION FOR COATING GLASS CONTAINERS**
00: -
The invention relates to a formulation comprising at least one methyl ester of fatty acid and at least one nonionic surfactant having a HLB from 9 to 16. The invention also relates to the use of such a formulation for coating a container, to a coating composition comprising such a formulation, and to a preparation method of such a coating composition.

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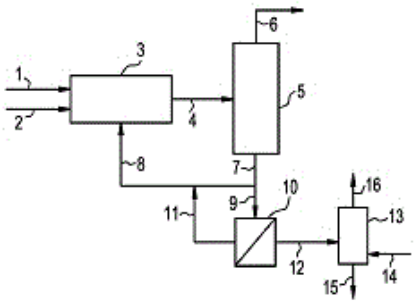
21: 2024/03511. 22: 2024/05/07. 43: 2025/06/17
51: C22B; B01J; C07C
71: DOW TECHNOLOGY INVESTMENTS LLC
72: BRAMMER, MICHAEL A, LIU, YUJUN, SINGH, AMARNATH, MILLER, GLENN A, BACKES, ADRIAN FRANCIS, BETHAM, MICHAEL
33: US 31: 63/263,892 32: 2021-11-11
**54: PROCESSES FOR RECOVERING RHODIUM FROM HYDROFORMYLATION PROCESSES**
00: -
The present disclosure relates to processes for recovering rhodium from a hydroformylation process.

In one aspect, a tails stream from a product-catalyst separation zone is provided to at least one organic solvent nanofiltration separation membrane, wherein a final permeate stream exits a final organic solvent nanofiltration separation membrane, wherein the rhodium concentration in the final permeate stream is lower than the rhodium concentration in the tails stream. The permeate stream is incinerated on-site to create a rhodium-containing ash.

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21: 2024/03547. 22: 2024/05/08. 43: 2025/06/12
51: A61K; A61P; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: GU, XUELAN, MI, TINGYAN
33: EP 31: 22153549.5 32: 2022-01-27
33: CN 31: PCT/CN2021/143517 32: 2021-12-31
**54: A PERSONAL CARE OR PHARMACEUTICAL COMPOSITION**
00: -
Disclosed is a personal care or pharmaceutical composition comprising vitamin B3 compound and carboxymethyl cysteine compound, wherein the weight ratio of the vitamin B3 compound to the carboxymethyl cysteine compound is at least 6:1.

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21: 2024/03548. 22: 2024/05/08. 43: 2025/06/12
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: GU, XUELAN, MI, TINGYAN
33: EP 31: 22153548.7 32: 2022-01-27
33: CN 31: PCT/CN2021/143516 32: 2021-12-31
**54: PERSONAL CARE COMPOSITION**
00: -
Disclosed is a personal care composition comprising carboxymethyl cysteine compound and Sandalwood extract.

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21: 2024/03549. 22: 2024/05/08. 43: 2025/06/12
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: CROPPER, MARTIN PETER, FLETCHER, NEIL ROBERT, JONES, KIMBERLEY ANN, MUNIER, VERONIQUE SANDRINE, STOCKTON, JOANNE ELIZABETH
33: EP 31: 21217099.7 32: 2021-12-22
**54: COSMETIC SWEAT MANAGEMENT COMPOSITIONS**
00: -
A cosmetic composition comprising ethanol, a lipid mixture consisting of isostearyl alcohol and glyceryl monlaurate at a weight ratio of from 25: 75 to 40: 60 and an oil selected from C8 to C16 alkanes, and the use of such compositions in sweat management.

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21: 2024/03550. 22: 2024/05/08. 43: 2025/06/12
51: A01N; A01P; A61K
71: UNILEVER GLOBAL IP LIMITED
72: DASGUPTA, ANINDYA, SAJI, MAYA TREESA, SALGAONKAR, NEHA
33: EP 31: 22153771.5 32: 2022-01-27
33: IN 31: 202121056268 32: 2021-12-03
**54: AN ANTIMICROBIAL COMPOSITION**
00: -
The present invention relates to an antimicrobial composition, more particularly to a method and a composition to prevent or treat acne. This is achieved through a composition that comprises alkyl substituted dihydroxy benzene in combination with select substituted phenol compound. The composition is also seen to have anti- malodour benefits.

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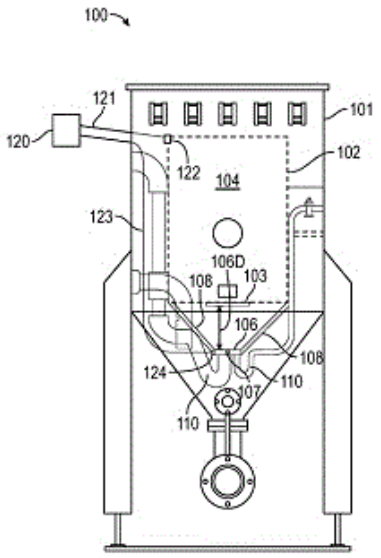
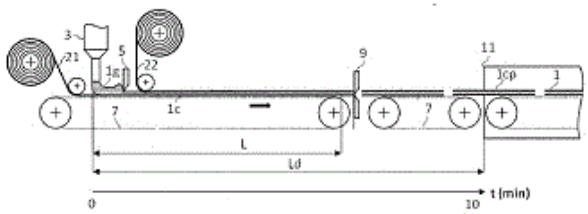
21: 2024/03590. 22: 2024/05/09. 43: 2025/06/12
51: C22B
71: ECOBIOME HOLDINGS, LLC
72: RODRIGUEZ, MARC
33: US 31: 63/275,058 32: 2021-11-03
**54: BIOREACTOR SYSTEM TO PRODUCE METAL**
00: -
A bioreactor stimulator is provided. A platform is operable to receive a metal sample of a desired metal. The metal sample is operable to interact with microbe and stimulate the microbe to recover the desired metal from selection material. An electrical conductor is electrically coupled to the platform. The electrical conductor and the metal sample are operable to receive and transmit electric pulses. The electrical conductor is operable to transmit the electric pulses to the selection material to stimulate

the microbe in the selection material to recover the desired metal.

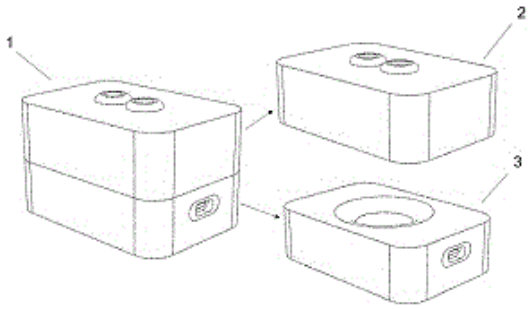



21: 2024/03593. 22: 2024/05/09. 43: 2025/06/19
51: C04B
71: ETEX BUILDING PERFORMANCE INTERNATIONAL SAS
72: BOISVERT, JEAN-PHILIPPE
33: EP 31: 21306944.6 32: 2021-12-24
**54: PROCESS FOR PRODUCING WATER RESISTANT PLASTERBOARDS WITH FIBER CEMENT POWDER**
00: -
Process for producing water resistant plasterboard using the combination of polyhydrogenomethylsiloxane and the waste of fiber cement board.

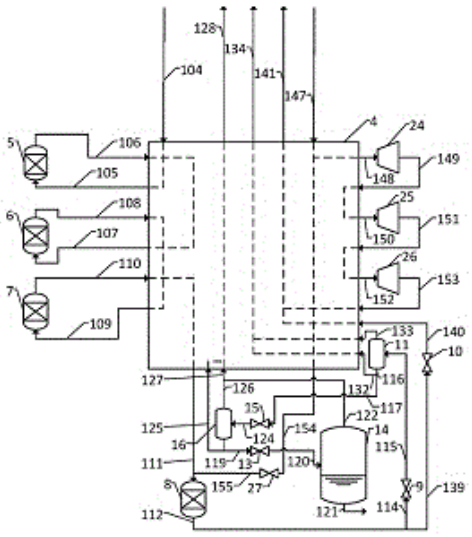



21: 2024/03615. 22: 2024/05/10. 43: 2025/06/12
51: B01L
71: BIOPIX DNA TECHNOLOGY S.A.
72: PAPADAKIS, GEORGIOS, PANTAZIS, ALEXANDROS, FIKAS, NIKOLAOS, FOUNTA, DIMITRA
33: EP 31: 21386071.1 32: 2021-11-12

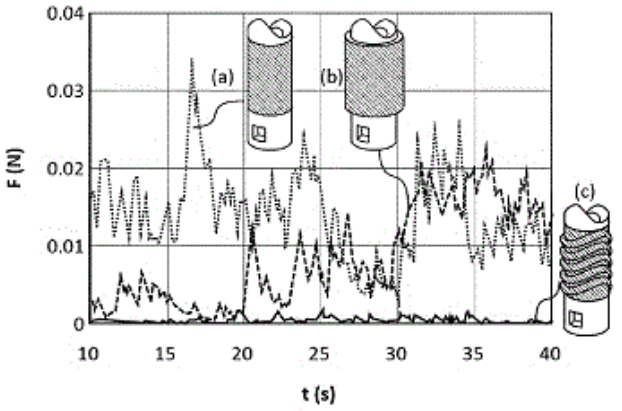
**54: POCKET-SIZE DEVICE FOR ISOTHERMAL NUCLEIC ACID AMPLIFICATION**
00: -
A pocket-size device (1) for isothermal nucleic acid amplification, which comprises an aperture (4) for receiving a reaction vessel (15) in which the nucleic acid amplification takes place and an electronic circuit (10). The electronic circuit (10) comprises a positive temperature coefficient thermistor (13) as heating element, a power port (9) and optionally a resistor (12).




21: 2024/03617. 22: 2024/05/10. 43: 2025/06/12
51: F25J
71: AIR PRODUCTS AND CHEMICALS, INC.
72: HIGGINBOTHAM, PAUL, PETRIK, JOHN H, HARRIS, CHRISTOPHER F
33: US 31: 17/542,682 32: 2021-12-06
**54: HYDROGEN LIQUEFIER**
00: -
Hydrogen is liquefied through a process utilizing refrigeration from hydrogen at one, two, or three different pressures as well as a nitrogen refrigeration cycle. One or more stages of catalyst are used to convert ortho-hydrogen to para-hydrogen as the hydrogen is cooled and liquefied. Subcooled liquid hydrogen feeds the final stage of ortho-hydrogen to para-hydrogen conversion to reduce or eliminate vaporization of the hydrogen during the exothermic ortho-hydrogen to para-hydrogen conversion.



21: 2024/03618. 22: 2024/05/10. 43: 2025/06/12
51: B22D
71: VESUVIUS GROUP, S.A.
72: KREIERHOFF, MARTIN, RAVE, MARCEL, RICHAUD, JOHAN
33: EP 31: 21210310.5 32: 2021-11-24
**54: SUBMERGED NOZZLE COMPRISING CONTINUOUS CIRCUMFERENTIAL WAVY RIBS**
00: -
The present invention concerns a submerged nozzle for casting molten metal into a mould, comprising an erosion resistant sleeve (2) made of a material resistant to erosion provided over a tubular portion and extending along a longitudinal axis (Z), wherein the erosion resistant sleeve comprises at least one annular protrusion (2p), extending radially outwards beyond a recessed portion (2r) of the erosion resistant sleeve over the whole circumference of the erosion resistant sleeve (2), wherein the at least one annular protrusion (2p) follows a periodic wavy trajectory oscillating between one or more tip-points situated closest to the first end and a corresponding number of one or more valley-points situated closest to the second end, the periodic wavy trajectory being defined by an amplitude (A) greater than 5 mm and a periodicity (P) comprised between 1 and 20 tip-to-valley-to tip periods per 2 rad.




21: 2024/03699. 22: 2024/05/13. 43: 2025/06/12
51: A01N; A01P
71: UNILEVER GLOBAL IP LIMITED
72: ROSA, JOSE GUILLERMO, RIENZO, MATTHEW JOSEPH, MITCHELL, DEIDRE LEE, HARICHIAN, BIJAN
33: EP 31: 21217788.5 32: 2021-12-27
**54: ANTIMICROBIAL SYSTEM WITH BETA CARBOLINE ALKALOID AND PHENOLIC ACID AND COMPOSITIONS COMPRISING THEM**
00: -
Antimicrobial systems with naturally derived ingredients and compositions comprising them are described. The systems have a first ingredient comprising a beta carboline alkaloid and a second natural ingredient that includes a phenolic acid where the systems and compositions provide superior antimicrobial benefits.

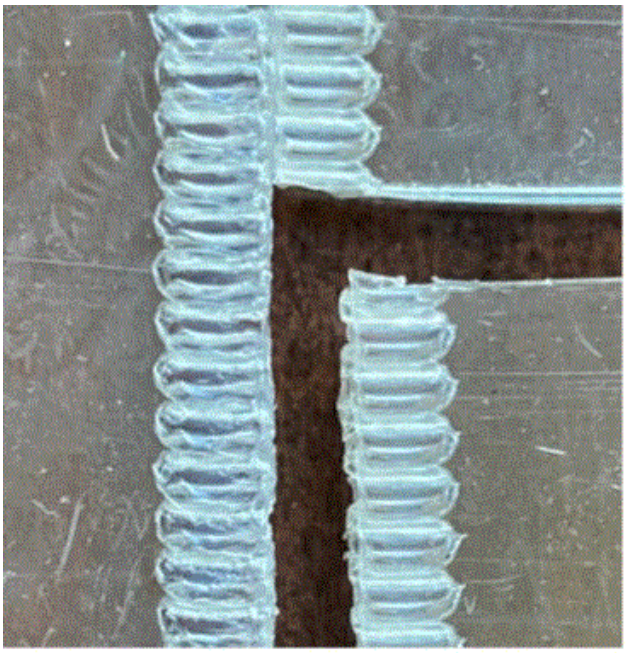
21: 2024/03700. 22: 2024/05/13. 43: 2025/06/12
51: A01N; A01P
71: UNILEVER GLOBAL IP LIMITED
72: HARICHIAN, BIJAN, MITCHELL, DEIDRE LEE, RIENZO, MATTHEW JOSEPH, ROSA, JOSE GUILLERMO
33: EP 31: 21217790.1 32: 2021-12-27
**54: ANTIMICROBIAL SYSTEM WITH BETA CARBOLINE ALKALOID AND INDOLE ALKALOID AND COMPOSITIONS COMPRISING THEM**
00: -
Antimicrobial systems with naturally derived ingredients and compositions comprising them are described. The systems have a first ingredient comprising an indole alkaloid and a second natural ingredient that includes a beta carboline alkaloid where the systems and compositions provide superior antimicrobial benefits.

21: 2024/03701. 22: 2024/05/13. 43: 2025/06/12
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: CHANDAR, PREM, VASUDEVAN, TIRUCHERAI VARAHAN, VELEZIS, NICHOLAS ARTHUR, WALSH, CONNOR PATRICK
33: EP 31: 21217787.7 32: 2021-12-27
**54: LIQUID COMPOSITION HAVING ENHANCED ANTIMICROBIAL ACTIVITY**
00: -
The invention is directed to a mild liquid composition with enhanced antimicrobial activity. The liquid composition of the present invention is mild and unexpectedly yields superior antimicrobial activity when used in cleansing applications. The liquid composition comprises an anionic surfactant and an acid, and is formulated to yield a wash solution having a pH from 2.9 to 5.2.

21: 2024/03703. 22: 2024/05/13. 43: 2025/06/12
51: A61K
71: UNIFARCO S.P.A.
72: BARATTO, GIOVANNI
33: IT 31: 102021000029171 32: 2021-11-18
**54: LIQUID COMPOSITION OF CERAMIDES AND PALMITIC ACID AMIDES**
00: -
Liquid composition consisting of: a) at least one ceramide b) at least one palmitic acid amide of formula (I) $CH_3(CH_2)_{14}CONHR^1$ (I) and c) di-(phytosteryl-2-octyldodecyl)-N-lauroyl-L-glutamate wherein $R^1$ is a straight or branched alkyl selected from the group consisting of a C1-C6 straight or branched alkyl optionally substituted with a hydroxyl group, a C4-C6 cycloalkyl, and wherein said components (a) and (b) are dissolved in said component (c).

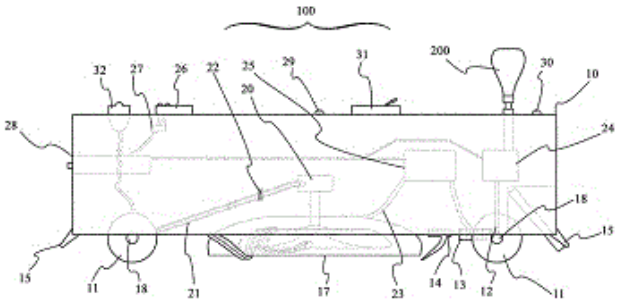
$$CH_3(CH_2)_{14}CONHR^1 \quad (I)$$

21: 2024/03734. 22: 2024/05/15. 43: 2025/06/18
51: B29C
71: LEE, William, Henry
72: LEE, William, Henry
33: ZA 31: 2023/07623 32: 2023-08-02
**54: DISPLAY STRIP FOR SHELF END USE**
00: -
The invention presents an ultrasonic welding apparatus designed to efficiently bond two sheets of plastic material through a central zone, forming two separate strips suitable for holding messages. The apparatus incorporates an ultrasonic horn equipped with either a stitch wheel with radial protrusions or a stationary anvil. These elements are engineered to achieve optimal penetration of the top sheet and partial penetration of the bottom sheet, facilitating a controlled flow of molten material that results in a strong bond between the sheets. The design enables the use of various plastics, including PVC and reclaimed PET (RPET), addressing previous challenges such as inconsistent welds and material brittleness post-welding. Additionally, the apparatus may include a fixed sharp blade for precise separation of the bonded sheets, enhancing the operational flexibility and application of the ultrasonic welding technique in plastic processing.

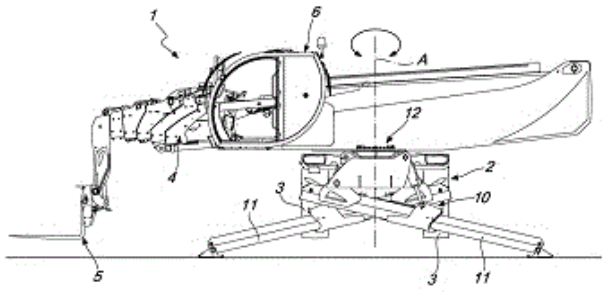


21: 2024/03756. 22: 2024/05/15. 43: 2025/06/12
51: E04F
71: VERRANDO, MIRCO
72: VERRANDO, MIRCO
33: IT 31: 102021000029561 32: 2021-11-23
**54: SELF-CLEANING DEVICE FOR APPLYING MATERIAL BETWEEN THE GROUT LINES OF TILES ON VERTICAL SURFACES**
00: -

Self-cleaning device for applying material between the grout lines of tiles on vertical surfaces (100) adapted to spread and model material of acrylic, silicone and/or soft cementitious paste type in order to create grout lines, joints or mortar on vertical surfaces preventing the product from sliding downwards; said self-cleaning device for applying material between the grout lines of tiles on vertical surfaces (100) adapted to speed up the laying operations and to reduce the effort applied by the operator to a minimum. It comprises at least one microfiber roller (17) adapted to be mobilized by at least one of the drive wheels (11) by means of a rubber belt (21) passing through a pulley (20), so as to clean the spatula (14) and the surface of said product (200) dispensed in excess. By means of a microcontroller (33) all the parameters of the orientable dispenser (17) and of the nebulizer of the liquid (18) are adjusted.



21: 2024/03808. 22: 2024/05/16. 43: 2025/06/12
51: B66F
71: MAGNI REAL ESTATE S.R.L.
72: MAGNI, RICCARDO
33: IT 31: 102021000026735 32: 2021-10-19
**54: TELESCOPIC BOOM LIFT**
00: -
A telescopic boom lift, comprising at least: - a vehicle (2) which can move over ground, - a telescopic boom (4) which is supported directly or indirectly so that it can rotate by the vehicle (2) and is adapted to support a work accessory (5), - an element (7) for the actuation of a respective movement of the lift (1). The lift comprises an electronic control and management unit, provided at least with first instructions for the determination, instant by instant, at least of a state of use of the movement actuated by the element (7), the state being variable between at least two from an enabled state, an inhibited state and an uncontrolled state, and with second instructions, for giving the element (7) a respective color, which corresponds to its state of use and is different from the one that corresponds to the other states of use.



21: 2024/03809. 22: 2024/05/16. 43: 2025/06/12
51: C25B
71: GEARY, PAUL FRANCIS
72: GEARY, PAUL FRANCIS
33: GB 31: 2115054.5 32: 2021-10-20
**54: PRESSURISED ELECTROLYSER**
00: -
The present invention relates to an electrolyser (100) for generating hydrogen, the electrolyser comprising: a housing (102) comprising an electrolyte chamber (104); two electrodes (108, 112) for decomposition of electrolyte water, at least one of the electrodes being permeable to gases produced by the decomposition of electrolyte water, wherein the at least one permeable electrode (108) has a first surface (114) facing the electrolyte chamber and a second surface (116) facing a first gas collection chamber (106); an electrolyte supply circuit (130) for supplying electrolyte water to the electrolyte chamber; and a control unit (160) and/or mechanical control for controlling a pressure drop across the at least one permeable electrode, between the electrolyte chamber and the first gas collection chamber.

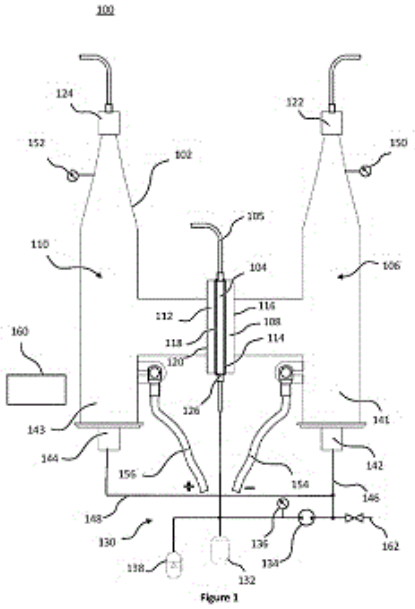


Figure 1

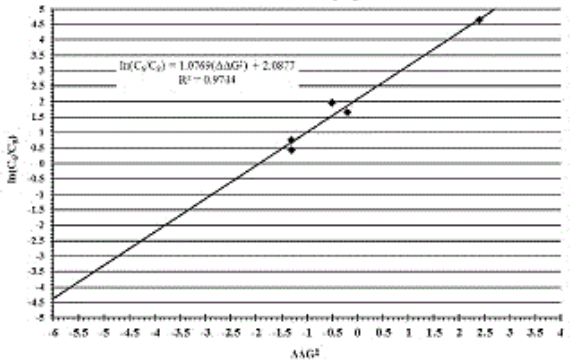
21: 2024/03810. 22: 2024/05/16. 43: 2025/06/12
51: B01J
71: CHEVRON PHILLIPS CHEMICAL COMPANY LP
72: BISCHOF, STEVEN M, SYDORA, ORSON L, ESS, DANIEL H, KILGORE, URIAH J, KWON, DOO-HYUN
33: US 31: 17/521,505 32: 2021-11-08

**54: CHROMIUM BICYCLIC PHOSPHINYL AMIDINE COMPLEXES FOR TETRAMERIZATION OF ETHYLENE**

00: -

The present disclosure relates to a catalyst system comprising i) (a) an $N^2$-phosphinyl bicyclic amidine chromium salt or (b) a chromium salt and an $N^2$-phosphinyl bicyclic amidine and ii) an organoaluminum compound. The present disclosure also relate to a process comprising: a) contacting i) ethylene; ii) a catalyst system comprising (a) an $N^2$-phosphinyl bicyclic amidine chromium salt complex or (b) a chromium salt and an $N^2$-phosphinyl bicyclic amidine; ii) an organoaluminum compound, and iii) optionally an organic reaction medium; and b) forming an oligomer product in a reaction zone.

Figure 1
$\Delta\Delta G^{\ddagger}$ versus $\ln(C_x/C_0)$



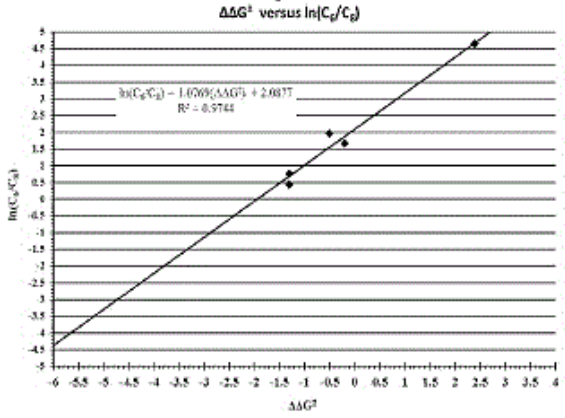

21: 2024/03811. 22: 2024/05/16. 43: 2025/06/12
51: B01J
71: CHEVRON PHILLIPS CHEMICAL COMPANY LP
72: BISCHOF, STEVEN M, SYDORA, ORSON L, ESS, DANIEL H, KILGORE, URIAH J, KWON, DOO-HYUN
33: US 31: 17/521,508 32: 2021-11-08

**54: CHROMIUM PHOSPHINYL HYDROISOINDOLE AMIDINE COMPLEXES FOR TETRAMERIZATION OF ETHYLENE**

00: -

The present disclosure relates to a catalyst system comprising i) (a) a bicyclic 2-[(phosphinyl)aminyl] cyclic imine chromium salt or (b) a chromium salt and a bicyclic 2-[(phosphinyl)aminyl] cyclic imine and ii) an organoaluminum compound. The present disclosure also relate to a process comprising: a) contacting i) ethylene; ii) a catalyst system comprising (a) a 2-[(phosphinyl)aminyl] cyclic imine chromium salt complex or (b) a chromium salt and a bicyclic 2-[(phosphinyl)aminyl] cyclic imine; ii) an organoaluminum compound, and iii) optionally an organic reaction medium; and b) forming an oligomer product in a reaction zone.

Figure 1
$\Delta\Delta G^2$ versus $\ln(C_p/C_p)$




21: 2024/03837. 22: 2024/05/17. 43: 2025/06/24
51: A01H
71: CIBUS EUROPE B.V., CIBUS US LLC
72: GOCAL, GREGORY F W, BEETHAM, PETER R, DE SCHOPKE, AURA, DUMM, SARAH, PEARCE, JAMES, SCHOPKE, CHRISTIAN, WALKER, KEITH A
33: US 31: 61/370, 436 32: 2010-08-03
**54: MUTATED PROTOPORPHYRINOGEN IX OXIDASE (PPX) GENES**
00: -
Provided are compositions and methods relating to gene and/or protein mutations in transgenic or non-transgenic plants. In certain embodiments, the disclosure relates to mutations in the protoporphyrinogen IX (PPX) gene. In some embodiments the disclosure relates to plants that are herbicide resistant.

Figure 1: Amino acid sequence of *Arabidopsis thaliana* chloroplast protoporphyrinogen oxidase (PPOX - At4g01690) (Accession # AX084732) (SEQ ID NO: 1)

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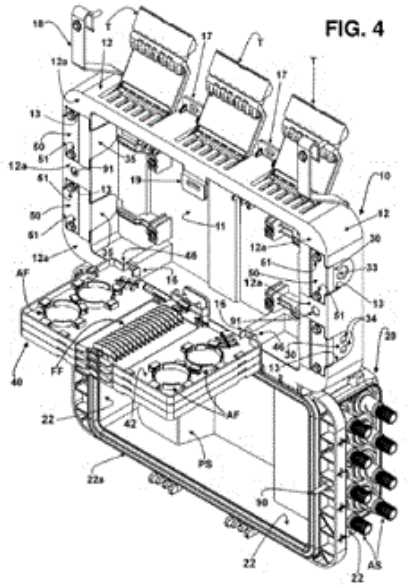
  1 MELSLLRPTTQSLLPSFSKPMLRLNVYEPLRLRCSVAGGPTVQSSKIEDG
 51 GDTTITTDCVIVGGGISGLCIAQALATKHPDAAPNLIVTEAKDRVGGNII
101 TREENGFLWEEGPNSFQPSDPMLTMVVDSGLKDDLVLGDPTAPRFVLWNG
151 KLRPVPSKLTDLPFFDLMSIGGKIRAGFGALGIRPSPPGREESVEEFVRR
201 NLGDEVFERLIEPFCSGVYAGDPSKLSMKAAFGKVWKLEQNGGSIIGGTF
251 KAIQERKNAPKAERDPRLPKPQGQTVGSFRKGLRMLPEAISARLGSKVKL
301 SNRLSGITKLESGQYNLTYETPDGLVSVQSKSVVMTVPSHVASGLLRPLS
351 ESAANALSKLYYPPVAAVSISYPKEAIRTECLIDGELKGFGQLHPRTQGV
401 ETLGTIYSSSLFPNRAPPGRILLLNYIGGSTNTGILSKSEGELVEAVDRD
451 LRKMLIKPNSTDPLKLGVRVWPQAIPQFLVGHFDILDTAKSSLTSSGYEG
501 LFLGGNYVAGVALGRCVEGAYETAIEVNNFMSRYAYK
```

21: 2024/03839. 22: 2024/05/17. 43: 2025/06/24
51: G02B
71: FURUKAWA ELECTRIC LATAM S.A.
72: VIEIRA, THIAGO DECONTO
33: BR 31: BR 10 2019 023385 0 32: 2019-11-07
**54: OPTICAL BRANCHING AND TERMINATION BOX**
00: -
An optical termination and derivation box, having a base (10) and a lid (20). The base (10) has a bottom wall (11) and peripheral walls (12) defining a leading edge (12a). The lid (20) is hinged to the base (10) and has a top wall (21) and peripheral walls (22) defining a trailing edge (22a) carrying a sealing gasket (24). The box comprises a splitter accommodation tray (60) having a front face (61) secured against the top wall (21) of the lid (20) and carrying a splitter accommodation means (MSF), and a rear face (62) which is covered by a plate (PE), fixed inside the lid (20). Each splitter and/or fiber accommodation means (MSF) is connectable, on the one side, to a fiber extension (EF1) derived from an optical cable (CO) received in the base (10) and, on the other side, to split fiber extensions (EF2), maintained on the front face side (61) and connectorized to output adapters (AS) passing through at least one of two opposite peripheral walls (22) of the lid (20), not hinged to the base (10). The output adapters (AS) are externally connected to respective connectors (C) from a terminal cable (CT) external to the box.

FIG. 4



21: 2024/03858. 22: 2024/05/17. 43: 2025/06/24
51: A61N; G02B; H01S
71: ENDO UV TECH
72: WATSON, BRANT D, VAN VURST, HENRY W
**54: DEVICE AND METHOD FOR DILATION OF A TUBULAR ANATOMICAL STRUCTURE**
00: -
Described is a method and device for dilating a tubular anatomical structure. The device and method

can be useful for extracting a blood clot in an artery of a mammal by concentrically irradiating an inner wall of the occluded artery using an ultraviolet (UV) laser beam delivered by an optical fiber having an external or inverted conical tip. Dilation results from photophysical production and release of nitric oxide from the cells lining the arterial wall when UV laser light is projected as a ring beam onto the inner arterial wall. This "minimal contact persistent dilation system" prepares the artery for safer mechanical extraction by thrombectomy, owing to decrease in friction and dissolution of chemical bonding.

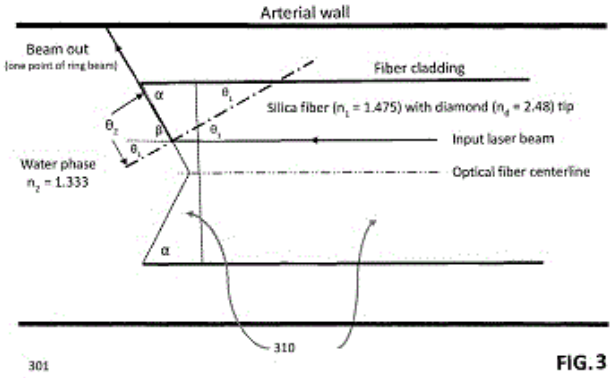
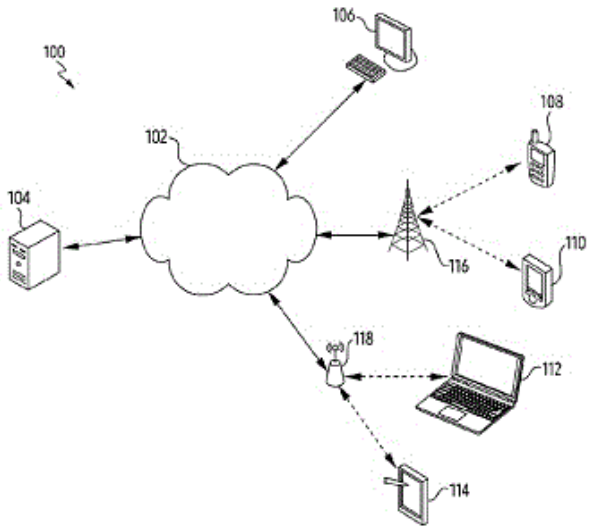
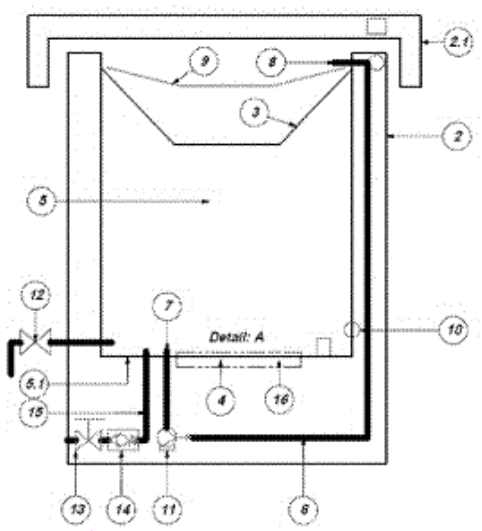


FIG. 3

21: 2024/03860. 22: 2024/05/17. 43: 2025/06/24
51: H04L; H04W
71: SAMSUNG ELECTRONICS CO., LTD.
72: RAMA CHANDRAN, SANIL
33: US 31: 63/281,463 32: 2021-11-19
33: US 31: 18/055,366 32: 2022-11-14
**54: METHOD AND APPARATUS FOR ROBUST MESSAGE TRANSMISSION RECEPTION OVER FRONTHAUL NETWORK**
00: -
Methods and apparatuses for handling an acknowledgement of C-plane message in a wireless communication system are provided. A method of a transmitter device comprises generating a section extension for an ACK/NACK request including an ackNackReqId field and an extLen field. The ackNackReqId field indicates the ACK/NACK request ID of a section description and the extLen field indicates a size of the section extension. The method comprises transmitting, to a receiver device, the C-plane message including the section extension for the ACK/NACK request. The method comprises receiving, from the receiver device, an ACK message corresponding to the C-plane message.




21: 2024/03861. 22: 2024/05/17. 43: 2025/06/24
51: A47J
71: BRAVILOR BONAMAT B.V.
72: DE GRAAF, MARGRIET, HAANTJES, JELLE, ANSING, JAN, DE GROOT, GERARDUS CORNELIS JOZEF
33: NL 31: 2029845 32: 2021-11-19
**54: A HOT COFFEE BREWING APPARATUS**
00: -
A hot coffee brewing apparatus (1) with a casing (2) comprising a coffee extractor (3) equipped to receive ground coffee beans, a heater (4), and a container (5) for water used in the extraction of coffee and for receiving the extracted coffee, a circulation path (6) having an input (7) connecting 5 to the container (5) and having an output (8) to the coffee extractor (3), and from which coffee extractor (3) the extracted coffee leaving the coffee extractor (3) will enter into the container (5), wherein the container (5) is immovably placed in the casing (2) and the heater (4) is in direct heat 10 conducting contact with the container (5).




21: 2024/03862. 22: 2024/05/17. 43: 2025/06/24
51: B65D; E05B
71: YETI COOLERS, LLC
72: BULLOCK, DUSTIN R, DARLING, COLIN, BLANCHARD, WALTER T
33: US 31: 17/530,053 32: 2021-11-18
**54: CONTAINER AND LATCHING SYSTEM**
00: -
A container (100) has a base (110) with a lid (150) that is rotatable about a hinge from a closed configuration to an open configuration. The lid may be secured to the base with a latch assembly (200). The latch assembly may have a locked position and an unlocked position, where the latch assembly includes: a latch body (210) pivotally connected to the lid, a latch button (230) slidably connected with the latch body, the latch button having a latch button-locking member (232), a latch-locking arm (250) pivotally connected to the latch body, and a latch-locking arm biasing member (282) that exerts a rotational force on the latch-locking arm. When the latch assembly is moved to the locked position, the latch-locking arm may engage the base and rotate against the rotational force from the latch-locking arm causing the latch button to move against the linear force until the latch button-locking member engages the arm-locking member.

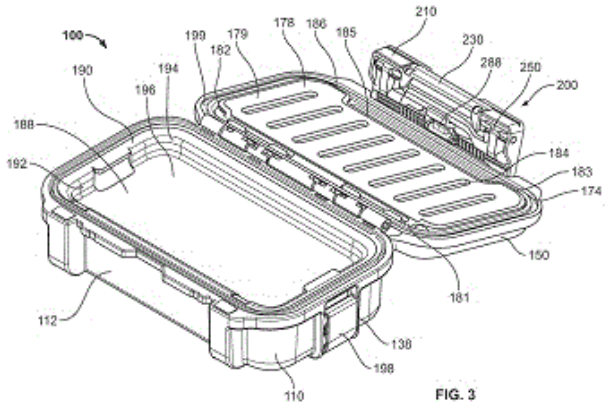


FIG. 3

21: 2024/03863. 22: 2024/05/17. 43: 2025/06/24
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: DAS, SOMNATH, SAMADDER, SATYAJIT
33: EP 31: 21216324.0 32: 2021-12-21
**54: ANTIPERSPIRANT COMPOSITION**
00: -
The present invention relates to antiperspirant composition, particularly to antiperspirant composition having high levels of oil. The present inventors have found that when compositions having an unsaturated oil such as sunflower seed oil is present in the antiperspirant composition together with high total oil content present in the composition, the fabric which comes in contact with the composition in the axilla tends to get stained on repeated use. The present inventors have found that the problem of staining or yellowing of fabrics is significantly lowered when a combination of an alkoxylated aliphatic ether with an alkyl chain length of $C_3$ to $C_{10}$ and specific polyethylene glycol diester of fatty acid with chain length of $C_{12}$ to $C_{18}$ is used in an antiperspirant composition having high total oil content including unsaturated oil and an antiperspirant active.

21: 2024/03906. 22: 2024/05/20. 43: 2025/06/25
51: A61K; A61P
71: CYBIN UK LTD
72: RANDS, PETER, ROUTLEDGE, CAROL, LAYZELL, MARIE, JAMES, ELLEN, JOEL, ZELAH, BENWAY, TIFFANIE, GOOD, MEGHAN
33: GB 31: 2119021.0 32: 2021-12-24
33: EP 31: PCT/EP2021/082227 32: 2021-11-18
33: TW 31: 110143066 32: 2021-11-18

33: EP 31: PCT/EP2022/055324 32: 2022-03-02
33: US 31: 17/574,424 32: 2022-01-12
**54: INJECTABLE AND INHALABLE FORMULATIONS**
00: -
The present invention relates to aqueous pharmaceutical formulations, methods for their production, and uses thereof. The aqueous pharmaceutical formulations comprise a salt of an optionally substituted dimethyltryptamine compound and water, with a pH from 5 to 6.5, preferably from about 5 to about 6, and a concentration of the optionally substituted dimethyltryptamine compound of about 10 mg/ml or greater as the freebase equivalent. These formulations can comprise an effective dose of an optionally substituted dimethyltryptamine compound for use in psychedelic assisted therapy within a volume of 5 ml or less. Such formulations are surprisingly suitable both for intramuscular injection and nebulised inhalation, being both stable and clinically acceptable, and have potential uses in the treatment of psychiatric or neurological disorders.

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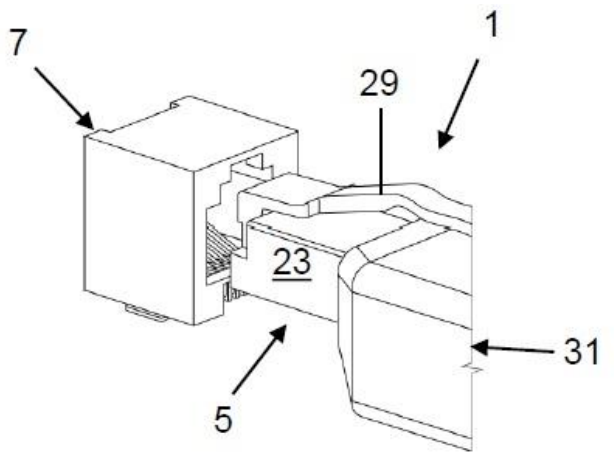
21: 2024/03969. 22: 2024/05/22. 43: 2025/07/03
51: H01R
71: HUBBLE ENERGY (PTY) LTD
72: DE LANGE, Cornelius
33: ZA 31: 2023/05487 32: 2023-05-22
**54: CONNECTOR ASSEMBLY**
00: -
A connector assembly for a standardised connector socket is provided. The connector assembly comprises a printed circuit board (PCB) and a plug formation configured to fit within and cooperate with the socket. The PCB has a portion configured to fit within a cavity defined within the plug formation and has conductive traces disposed thereon for cooperating with conductive terminals within the socket. The plug formation includes an aperture which provides communication between the cavity and an exterior of the plug formation and is arranged to expose the conductive traces disposed on the portion of the PCB to the exterior of the plug formation to permit electrical coupling between the conductive traces and corresponding conductive terminals of the socket in use.

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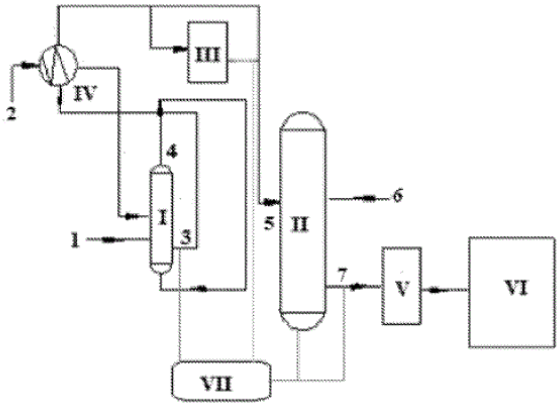
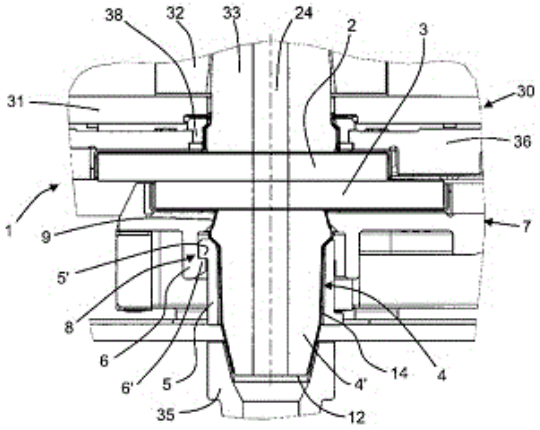
21: 2024/03973. 22: 2024/05/22. 43: 2025/06/18
51: C10G B01J
71: CHINA ENERGY INVESTMENT CORPORATION LIMITED, NATIONAL INSTITUTE OF CLEAN-AND-LOW-CARBON ENERGY
72: DU, Bing, BU, Yifeng, ZHAO, Yongming, TONG, Ruili, FENG, Liuhai, MEN, Zhuowu
**54: METHOD AND DEVICE FOR CONTINUOUS OPERATION OF FISCHER-TROPSCH SYNTHESIS CATALYST**
00: -
The present invention relates to the technical field of Fischer-Tropsch synthesis, and specifically to a method and device for the continuous operation of a Fischer-Tropsch synthesis catalyst. On the premise of not reducing an activation effect of a Fischer-Tropsch synthesis catalyst, the operation method provided by the present invention changes an intermittent activation operation of the existing catalyst into a continuous operation, which realizes the continuous operation of the activation process and the online replacement process of the Fischer-Tropsch synthesis catalyst. Particularly, combining a solid-solid heat exchange between a fresh catalyst and an activated catalyst, so that an activation reactor keeps the activation process conditions unchanged, saves on the time consumed by the activation reactor in heating and cooling, pressurizing and depressurizing, and gas replacement, etc., and reduces the operation complexity and energy consumption; moreover, a replacement period and the replacement rate of a deactivated catalyst in a Fischer-Tropsch synthesis reactor are reduced, so that the overall performance of the catalyst in the Fischer-Tropsch synthesis reactor is more stable, thereby effectively reducing

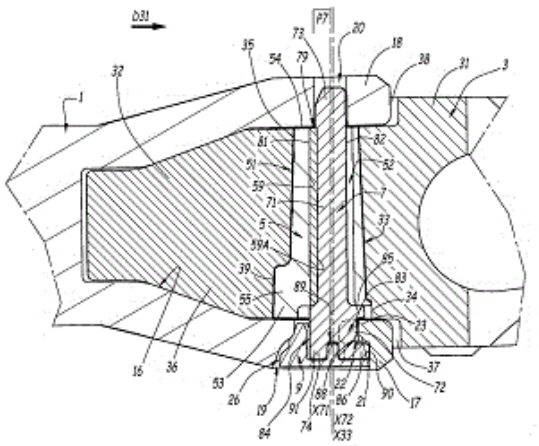
the equipment investment cost of the activation reactor.



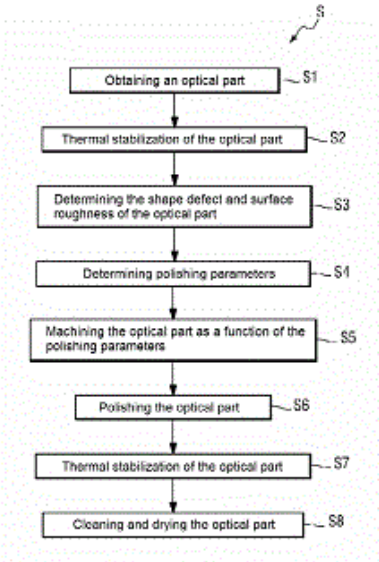

21: 2024/03999. 22: 2024/05/22. 43: 2025/06/25
51: B22D
71: REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG
72: BAUMGARTNER, GUIDO, HEINRICH, BEAT
33: EP 31: 21215722.6 32: 2021-12-17
**54: SLIDING CLOSURE FOR A METALLURGICAL VESSEL, AND AN EXCHANGEABLE SPOUT**
00: -
A sliding closure (1) for a metallurgical vessel is provided with a slider unit (7), a refractory closing plate (3) which can be inserted therein, a refractory exchangeable spout (4) which can be sealingly connected to the closing plate (3) and has a top face (15) and an outlet opening (24), and a fastening means (8). By means of said fastening means (8), the exchangeable spout (4) can be pressed against a stop (9) in the slider unit (7). Said stop (9) in the slider unit (7) and the exchangeable spout (4) are each designed with a stop surface (16, 17) conically tapering toward the closing plate (3) such that, when assembled, they are correspondingly pressed against one another with a refractory sealing material between the exchangeable spout (4) and the slider unit (7). Improved axial and lateral fixation between these components is therefore achieved, thereby reducing the risk of breaching.




21: 2024/04000. 22: 2024/05/22. 43: 2025/06/24
51: E02F
71: SAFE METAL
72: MARCHAND, FABRICE
33: FR 31: FR2113016 32: 2021-12-06
**54: WEAR ASSEMBLY FOR A BUCKET OF AN EXTRACTION OR WORKS MACHINE**
00: -
Wear assembly, comprising a tooth holder (3) and a tooth (1) for a bucket, and also a sheath (5), with a housing duct (52), the sheath being received in the tool holder. Also provided is a key (7) which is received in the housing duct (52) by pivoting between an insertion orientation, so as to be slid into the housing duct, and a locking orientation, so as to clamp the tooth against the tooth holder by the key bearing against the tooth and the sheath bearing against the tooth holder under the action of the key, in opposite directions. In order to facilitate manufacture without prejudicing reliability, the key is monolithic and comprises both a bearing cam (71), for bearing against the tooth holder, and a bearing end (72), for bearing against the tooth (1).



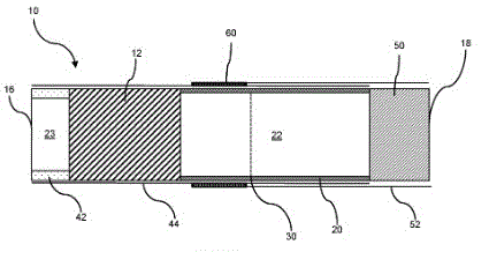
21: 2024/04001. 22: 2024/05/22. 43: 2025/06/24
51: B24B; G02B
71: SAFRAN REOSC
72: LAGRANGE, THIERRY, JOSEPH, CÉDRIC, FOUCAUD, GUILLAUME, MERCERON, JEAN-MARC, RODOLFO, JACQUES
33: FR 31: FR2112744 32: 2021-12-02
**54: OPTICAL SURFACE OF A HIGH-PRECISION METAL MIRROR WITH VERY LOW ROUGHNESS AND SHAPE DEFECT**
00: -
The present invention relates to a method of manufacture (S) of an optical surface (4) of an optical part (1), comprising the following steps: obtaining (S1) an optical part (1) comprising a substrate (3) made of a first aluminium alloy and a coating (2) made of a second aluminium alloy having a porosity less than that of the first aluminium alloy; determining (S3) a reference shape defect and a reference surface roughness of the optical surface (4); determining (S4) polishing parameters for obtaining the reference surface roughness; depending on the polishing parameters, machining (S5) the coating (2) so as to give it a modified shape defect; and polishing (S6) the coating (2) according to the polishing parameters until the reference surface roughness and the reference shape defect are obtained.




21: 2024/04002. 22: 2024/05/22. 43: 2025/06/24
51: A01N; A01P
71: UNILEVER GLOBAL IP LIMITED
72: HARICHIAN, BIJAN, MITCHELL, DEIDRE LEE, RIENZO, MATTHEW JOSEPH, ROSA, JOSE GUILLERMO
33: EP 31: 21217789.3 32: 2021-12-27
**54: ANTIMICROBIAL SYSTEM WITH INDOLE ALKALOID AND PHENOLIC ACID AND COMPOSITIONS COMPRISING THEM**
00: -
Antimicrobial systems with naturally derived ingredients and compositions comprising them are described. The systems have a first ingredient comprising an indole alkaloid and a second natural ingredient that includes a phenolic acid where the systems and compositions provide superior antimicrobial benefits.

21: 2024/04031. 22: 2024/05/23. 43: 2025/08/12
51: A24D; A24F
71: PHILIP MORRIS PRODUCTS S.A.
72: BESSANT, Michel, MONNEY, Patrick Philippe
33: CN 31: PCT/CN2021/126124 32: 2021-10-25
**54: AEROSOL-GENERATING ARTICLE WITH PHOTOLUMINESCENT TAGGANT**
00: -
There is provided an aerosol-generating article (10) comprising an aerosol-forming substrate (12) and a taggant (60). The taggant (60) comprises a photoluminescent material having an emission half-life of between about 50 microseconds and about 1000 microseconds after photoexcitation of the photoluminescent material. Also provided is an

aerosol-generating system (100) comprising the aerosol-generating article (10) and an aerosol-generating device (1). Also provided is an aerosol-generating device (1) comprising a source of radiation and a photodetector.



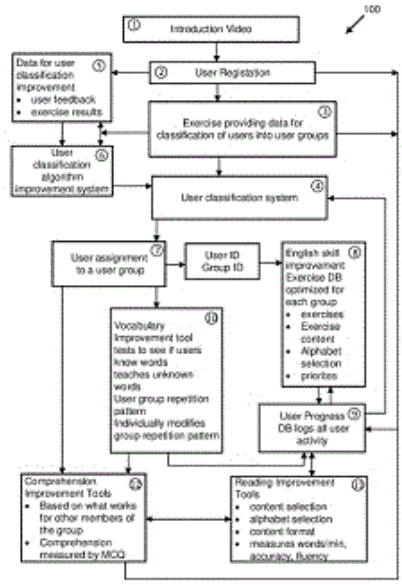

21: 2024/04043. 22: 2024/05/23. 43: 2025/06/24
51: A61Q; A61K; C11D
71: UNILEVER GLOBAL IP LIMITED
72: BEKTO, HASIBA, DOUTHIT, JENNA CHRISTINE, KEMLER, KAYLA MARIE, LOU, ANJING
33: EP 31: 21216563.3 32: 2021-12-21
**54: POWDERED COSMETIC COMPOSITION**
00: -
Disclosed herein are personal care compositions. More particularly, disclosed herein is a rapidly hydratable, powdered cosmetic compositions comprising a quaternary ammonium compound mixture comprising a quaternary ammonium compound mixture comprising a quaternary ammonium compound, fatty acid, fatty alcohol, or combination thereof, and hydration enhancer; and a stabilizing carrier. Such a powdered cosmetic composition unexpectedly remains free- flowing under high humidity and/or high temperature conditions, is convenient to evacuate from packaging.

21: 2024/04044. 22: 2024/05/23. 43: 2025/06/24
51: C11D; A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: CHANDAR, PREM, KUZNITZ, MATTHEW FRED, VINSKI, PAUL, WALSH, CONNOR PATRICK
33: EP 31: 21217786.9 32: 2021-12-27
**54: BAR COMPOSITION HAVING ENHANCED ANTIMICROBIAL ACTIVITY**
00: -
The present invention is directed to a mild bar composition with enhanced antimicrobial activity. The bar composition of the present invention is mild and unexpectedly yields superior antimicrobial activity when used in cleansing applications. The bar composition comprises an anionic surfactant and an acid, and is formulated, when lathered, to generate a wash slurry having a pH from 2.9 to 5.2.

21: 2024/04047. 22: 2024/05/23. 43: 2025/06/25
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: CROPPER, MARTIN PETER, FLETCHER, NEIL ROBERT, MUNIER, VERONIQUE SANDRINE, STOCKTON, JOANNE ELIZABETH
33: EP 31: 21217085.6 32: 2021-12-22
**54: COSMETIC SWEAT MANAGEMENT COMPOSITIONS**
00: -
An antiperspirant aerosol composition comprising a three-component mixture of propellant, ethanol and a lipid mixture consisting of glycerol monolaurate and isostearyl alcohol at a ratio of from 25: 75 to 45: 55, wherein the propellant content of the three-component mixture is from 40 to 87.5%; the ethanol content of the three-component mixture is from 10 to 57.5% and the lipid content of the three-component mixture is from 2.5% up to a maximum equal to the sum of 4.805 and the ethanol content multiplied by 0.115.

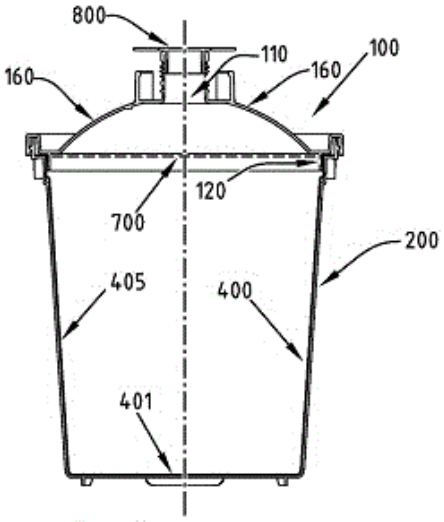
21: 2024/04071. 22: 2024/05/24. 43: 2025/06/25
51: G09B; G06F; G06N; G10L
71: ELVO3 PTY LTD
72: STEPHEN, CHRISTOPHER COLIN
33: AU 31: 2022228148 32: 2022-09-08
33: AU 31: 2021903667 32: 2021-11-16
**54: METHOD AND SYSTEM**
00: -
A publishing system with components, including: a system configured to receive at least one document including text that defines a base alphabet in one or more formats; a system configured to provide additional data for a reader to better understand the document which includes: a method of encoding or marking up non-phonetic words in the document to enable the reader to decode sounds of each non-phonetic word; and a system configured to output an encoded document with the text and the additional data in one or more formats, wherein the method of automatically encoding the non-phonetic words to make the encoded words phonetic: for at least one character ("spelling character") in the non-phonetic word, using a compound character that includes the

spelling character and a sound character, wherein the sound characters: are human-readable characters in the base alphabet and/or in one or more secondary alphabets, are added to the spelling characters to indicate that each spelling character makes the usual sound of the sound character, are added so that spelling characters can be visually discriminated from sound characters, are added such that a reader can recognize the non-phonetic word by sight because the spelling of the word is unchanged, and are added to the spelling characters such that the spelling characters and the sound characters remain human-readable such that the spelling character and the sound character of each compound character are within one visual field; and automatically outputting the encoded words in a human-readable form/format such that the compound characters in the encoded word visually indicate which of the spelling characters have a sound other than their usual sound and what sound each character makes in the non-phonetic word when it does not make its usual sound.




21: 2024/04076. 22: 2024/05/24. 43: 2025/06/25
51: B05B
71: CHEMICAR EUROPE NV
72: WAMBEKE, ALAIN MARCEL, VAN DRIESSCHE, DIRK, GREEVE, PIET JAN ERNST
33: BE 31: 2021/5893 32: 2021-11-18
**54: ASSEMBLY OF A CUP, LINER AND LID FOR A PAINT SPRAY GUN**
00: -

An assembly for use with a spray gun comprising a lid (100) with a passage (110) for a liquid, a cup (200) and a liner (400) configured to be arranged in the cup; wherein the lid (100) is configured to be removably couplable to the cup (200), such that in a coupled state of the lid on the cup an upper end (410) of the liner is clamped between the lid and the cup; wherein the lid (100) is provided with an inner peripheral wall (120) which is configured to extend at least partially into the cup, wherein the inner peripheral wall has an outer surface (122) lying opposite an inner surface (221); wherein the outer surface (122) of the inner peripheral wall and/or the inner surface (221) of the cup is provided with at least one seal (500).




21: 2024/04115. 22: 2024/05/27. 43: 2025/06/25
51: B60L; B60M
71: CATERPILLAR INC.
72: STRASHNY, IGOR, HAMILLA, ANDREW
33: US 31: 17/535,075 32: 2021-11-24
**54: CONCENTRIC CONDUCTOR**
00: -

A conductor rod (106) having several cylinder conductors (202, 206, 210, 214) concentrically placed within a barrel (109) to transfer power from a power source to a work machine (100) and the work machine (100) that uses the conductor rod (106) is disclosed. In some cases, the conductor rod (106) has at least a first cylinder conductor (302) and a second cylinder conductor (304) that are concentrically aligned along a longitudinal axis (AB) of the conductor rod (106). The first cylinder

conductor (302) and the second cylinder conductor (304) are affixed to a head-end interface (120) and a connector assembly (114) at either end of the cylinder conductors (302, 304).

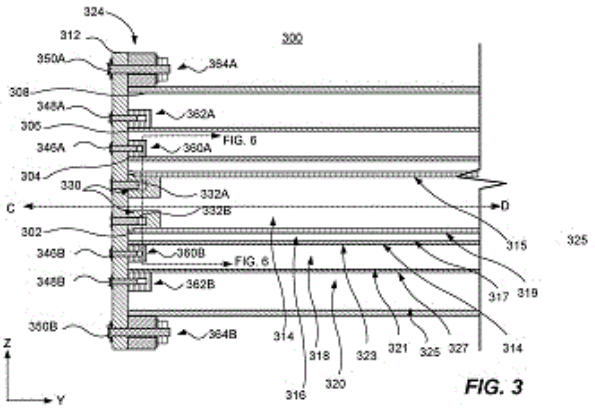



FIG. 3

21: 2024/04117. 22: 2024/05/27. 43: 2025/06/24
51: H01R; B60L; B60M
71: CATERPILLAR INC.
72: STRASHNY, IGOR
33: US 31: 17/456,479 32: 2021-11-24

**54: SLIDABLE NESTED CONDUCTORS**

00: -

A conductor rod (100) having an arm section (962) that slides into and out of a barrel section (960), the arm section (962) and barrel section (960) providing power from a power source to a work machine (100), and a work machine (100) for using the conductor rod (100) are described herein. The arm section (962) includes piston conductors (912, 914) that slidable engage with cylinder conductors (902, 904) of the barrel section (960), forming concentric tubular conductors. The concentric tubular connectors maintain physical and electrical contact as the conductor rod (106) extends and contracts so that contact with electrical power is maintained despite lateral movements of the work machine (100) caused by steering or road conditions.

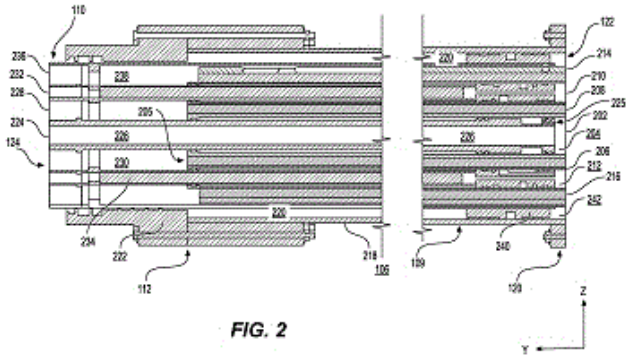


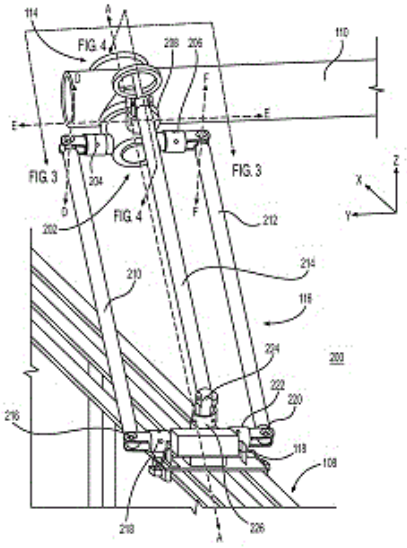

FIG. 2

21: 2024/04118. 22: 2024/05/27. 43: 2025/06/25
51: H01R; B60M; B60L
71: CATERPILLAR INC.
72: STRASHNY, IGOR
33: US 31: 17/535,235 32: 2021-11-24

**54: TERMINAL ASSEMBLY FOR CONDUCTOR ROD HAVING MULTIPLE DEGREES OF FREEDOM**

00: -

A work machine (100), such as a hauler at a mining site, includes a conductor rod (106) housing concentric metal tubes (302, 304, 306) for receiving multiple poles of electrical power from a contactor (118) sliding on a power rail (108). A terminal assembly (200) includes conductive extensions (308, 318, 314) from the respective metal tubes that are arranged concentrically and rotatably around an axis orthogonal with the conductor rod (106), rotatable metal pins (204, 206, 208) positioned transversely to the axis, and conductive arms (210, 212, 214) connected through hinge joints (320, 322, 404) to respective ones of the rotatable metal pins. When the conductive arms are connected to rotatable and hinged joints at the contactor (118), the terminal assembly (200) provides multiple degrees of freedom for the conductor rod (106) relative to the contactor (118) and avoids detachment of the contactor (118) from the power rail (108).



21: 2024/04119. 22: 2024/05/27. 43: 2025/06/25
51: B60L; B60M; F16C
71: CATERPILLAR INC.
72: STRASHNY, IGOR
33: US 31: 17/535,301 32: 2021-11-24
**54: CONNECTOR ASSEMBLY FOR CONDUCTOR ROD HAVING MULTIPLE DEGREES OF FREEDOM**
00: -
A work machine (100), such as a hauler at a mining site, includes a conductor rod (106) housing concentric metal tubes (302, 304, 306) for receiving electrical power from a contactor (118) sliding on a power rail (108). A connection assembly (500) includes lugs (504, 506, 508) branching orthogonally from respective ones of the concentric metal tubes to an exterior of the conductor rod (106). The lugs include ball-and-socket joints (604, 608, 612) configured to enable semi-spherical movement of the lugs at the exterior with respect to the joints. When attached to the contactor (118) via conductive arms (210, 212, 214), the connection assembly (500) provides multiple degrees of freedom for the conductor rod (106) relative to the contactor (118) and avoids detachment of the contactor (118) from the power rail (108).

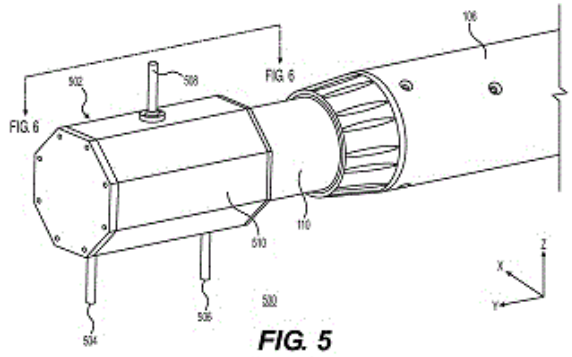


FIG. 5

21: 2024/04120. 22: 2024/05/27. 43: 2025/06/25
51: B60L; B60M
71: CATERPILLAR INC.
72: STRASHNY, IGOR
33: US 31: 17/535,166 32: 2021-11-24
**54: MULTI-TIERED INTERFACE BETWEEN CONDUCTOR ROD AND WORK MACHINE**
00: -
An apparatus (106) for conducting electricity and a head-end interface (310) connected to the apparatus (106) are described. A head-end interface (310) of the conductor rod (106) proximate a work machine (100) includes multiple tiers (410, 412, 414, 416) to which terminal connectors (408A/B, 406A/B, 404A/B, 402A/B) are affixed. The tiers (410, 412, 414, 416) are at different heights above the base (430) of the head-end interface (310), providing a distance or spacing between adjacent terminal connectors, thus reducing the need to increase a diameter of head-end interface (310) to accommodate adjacent terminal connectors.

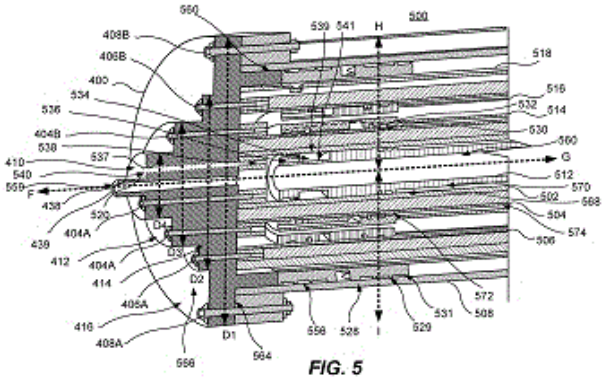


FIG. 5

21: 2024/04121. 22: 2024/05/27. 43: 2025/06/25
51: H01R; B60L; B60M
71: CATERPILLAR INC.
72: STRASHNY, IGOR

33: US 31: 17/535,254 32: 2021-11-24
**54: RADIAL AND AXIAL INTERFACE BETWEEN CONDUCTOR ROD AND WORK MACHINE**
00: -
A work machine (100), such as a hauler at a mining site, includes a conductor rod (106) housing concentric metal tubes (802, 806, 812, 816) for receiving electrical power from a contactor sliding on a power rail. A head-end interface (120) of the conductor rod (106) proximate the work machine (100) includes metallic rings (704, 706) spaced apart and extending circumferentially around the head-end interface (120). Bores (716) pass longitudinally through the head-end interface (120) and into cavities within the conductor rod (106) between the concentric metal tubes(802, 806, 812, 816). The metallic rings (704, 706) enable the delivery of electrical power radially from the conductor rod (106) for powering the work machine (100), while the bores (716) enable the delivery of pneumatic power longitudinally into the conductor rod (106) for powering axial movement of the conductor rod (106).

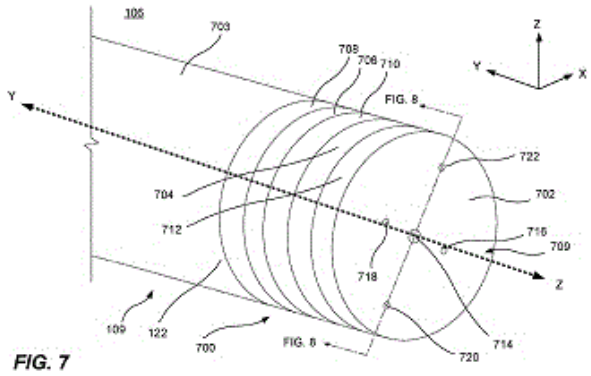
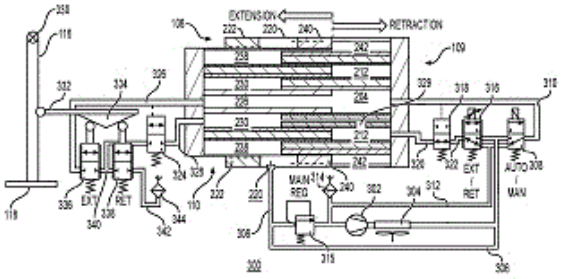


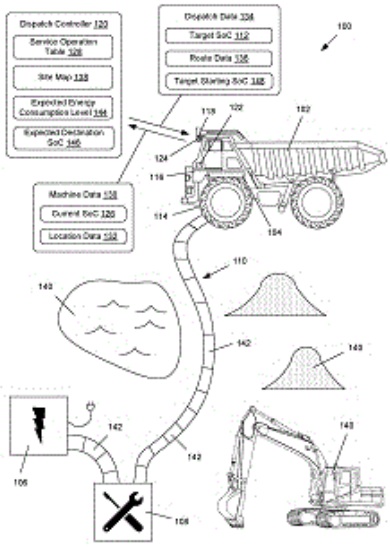
FIG. 7

21: 2024/04123. 22: 2024/05/27. 43: 2025/06/25
51: B60L; B60M; F15B
71: CATERPILLAR INC.
72: STRASHNY, IGOR
33: US 31: 17/535,162 32: 2021-11-24
**54: SYSTEM AND METHOD FOR POSITIONING A CONDUCTIVE ROD POWERING A WORK MACHINE**
00: -
A work machine (100) powered electrically by a conductor rod (106) includes a pneumatic control system (300) for moving the conductor rod (106) axially to contact power rails (108) along a haul route (101). The conductor rod (106) has a central passageway pneumatically coupling a head (122) to a tip (124). A barrel (109) extending from the head (122) and an arm (110) extending from the tip (124) have concentric tubular conductors radially offset from each other and slidably mated together. Arrangements of pneumatic control valves (316, 336, 338) provide pressurized air to selected cavities formed at ends or sides of the tubular conductors, causing axial forces that are balanced to effect retraction and extension of the arm (110) within the barrel (109). In an open-loop mode, the pneumatic control system (300) enables attachment of the arm (110) to the power rails (108). In a closed-loop mode, mechanical feedback of relative position between the arm (110) and power rails (108) leads to axial adjustment pneumatically so that contact with electrical power is maintained despite lateral movements caused by steering or road conditions.




21: 2024/04124. 22: 2024/05/27. 43: 2025/06/25
51: B60L; H02J
71: CATERPILLAR GLOBAL MINING EQUIPMENT LLC
72: LANE, CAMERON T
33: US 31: 17/537,365 32: 2021-11-29
**54: BATTERY MANAGEMENT FOR MACHINE SERVICE OPERATIONS**
00: -
A system can plan a route for a machine, such as an electric vehicle or other mobile machine, from a current location of the machine to a maintenance station where a service operation is to be performed on the machine. The service operation can be associated with a target state of charge (SoC) for a battery of the machine. The system can plan the route such that an expected energy consumption level, associated with traversal of the route by the machine, causes the SoC of the battery to satisfy the target SoC when the machine arrives at the maintenance station. The system can also dynamically adjust the route, charges of the battery,

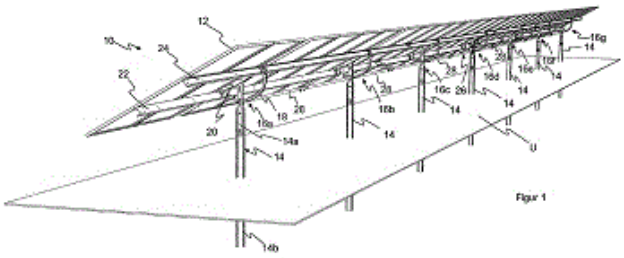
and/or machine operations performed along the route, during travel to cause the SoC of the battery to satisfy the target SoC when the machine arrives at the maintenance station.



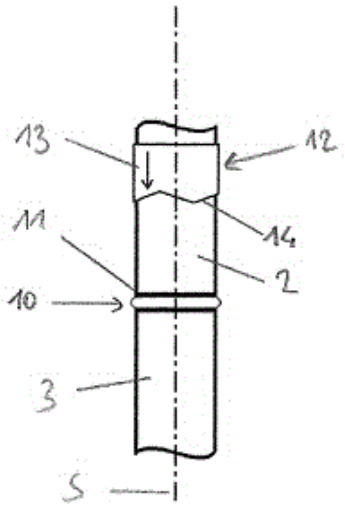
21: 2024/04151. 22: 2024/05/27. 43: 2025/06/25
51: C11D; A01N; A01P
71: UNILEVER GLOBAL IP LIMITED
72: MAHAPATRA, SAMIRAN, MEDEPALLI, SRILAXMI VENKATA, MOHAPATRA, NAMISHA, VARMA, SANDEEP
33: EP 31: 22150129.9 32: 2022-01-04
**54: AN ANTIFUNGAL COMPOSITION**
00: -
The present invention relates to a use of an alkyl substituted dihydroxy benzene compound for inhibition of fungal melanin and for reducing adhesion of fungus on to surfaces. The invention more particularly relates to a composition for removal of fungus that produce DHN melanin, from hard surfaces as well as soft ones like fabric. This is achieved by combining an alkyl substituted dihydroxybenzene compound with a cationic surfactant.

21: 2024/04152. 22: 2024/05/27. 43: 2025/06/25
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: GU, XUELAN, MI, TINGYAN
33: EP 31: 22153546.1 32: 2022-01-27
33: CN 31: PCT/CN2021/143514 32: 2021-12-31
**54: PERSONAL CARE COMPOSITION**
00: -
Disclosed is a personal care composition comprising a carboxymethyl cysteine compound and hydroxyl substituted fatty acid.

21: 2024/04185. 22: 2024/05/28. 43: 2025/06/25
51: F24S; H02S
71: SCHLETTER INTERNATIONAL B.V.
72: DECHANT, GABRIEL, ZAPFE, JAN
33: DE 31: 10 2022 102 605.1 32: 2022-02-03
**54: TRACKING DEVICE FOR SOLAR MODULES**
00: -
The present invention relates to a tracking device (10) for solar modules, comprising: at least one pivoting unit (16), wherein the at least one pivoting unit (16) comprises at least one curved drive element (18) and one crossmember (20) which can be pivoted about a pivot axis (S) and is connected to the at least one curved drive element (18), wherein the at least one curved drive element (18) comprises holding recesses (42) and drive recesses (40) arranged alternatingly in the circumferential direction, at least one post (14), on which the at least one crossmember (20) is mounted pivotably about the pivot axis (S), at least one transmission element (38) which is rotatable about a rotational axis, wherein the at least one transmission element (38) comprises at least one drive element (86) for engaging into one of the drive recesses (40) and at least one holding element (88) for engaging into one of the holding recesses (42), at least one drive shaft (28) which is coupled to the at least one transmission element (38), and at least one drive unit (26) which is attached to the at least one post (14), wherein the at least one drive unit (26) comprises at least one motor (30) and at least one output element (54), wherein the at least one output element (54), the at least one drive shaft (28) and the at least one transmission element (38) are coupled to one another in a torque-transmitting manner at a common axial coupling point (KS1).

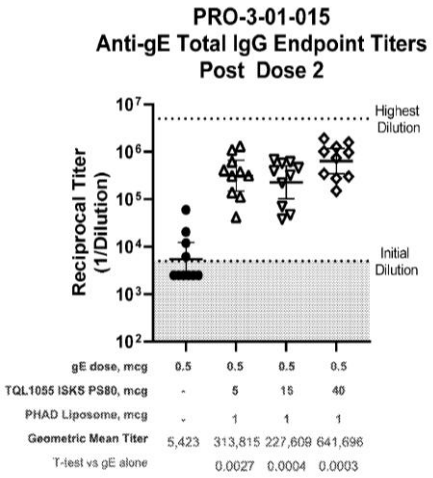


21: 2024/04186. 22: 2024/05/28. 43: 2025/06/25
51: B21D; A44C; B21J; B23D; B44B; B23P
71: HRACH, THOMAS
72: HRACH, THOMAS
33: AT 31: A 50859/2021 32: 2021-10-29
**54: METHOD AND APPARATUS FOR PRODUCING A CALIBRATED STAMPED PART**
00: -
A method for producing a calibrated stamped part for use in the production of embossed products, in particular coins, from a flat, in particular rolled or drawn, stamped part (1), comprises the following steps: - a positioning step a), in which the flat stamped part (1) is positioned between an upper punch surface (4) and a lower punch surface (5), - a contact step b), after which the two punch surfaces (4, 5) are in contact with the flat stamped part (1), - a calibration step c), in which the flat stamped part (1) is plastically deformed until a predefined distance (A) is reached between the punch surfaces (4, 5), with material of the flat stamped part (1) being displaced laterally, and - at least one severing step d), in which the laterally protruding material (10) of the flat stamped part (1) is severed.




21: 2024/04188. 22: 2024/05/28. 43: 2025/06/25
51: A61K; A61P
71: NEUROTECH MEDICAL CO., LTD.
72: KIHOIN, NAGATOSHI, OKADA, KUNIHIKO
33: JP 31: 2020-198046 32: 2020-11-30
**54: THERAPEUTIC AGENT FOR NERVE DISORDERS**
00: -
The present invention addresses the problem of providing a therapeutic agent that is more efficacious for treating nerve disorders, said therapeutic agent comprising a culture supernatant of mesenchymal stem cells. The present invention provides a therapeutic agent for nerve disorders, said therapeutic agent comprising a culture supernatant of mesenchymal stem cells and/or cells capable of differentiating into mesenchymal stem cells and being to be used together with stimulation of patient's nerves, wherein the stimulation is preferentially provided to one or more sites selected from the group consisting of a site of nerve damage, an area surrounding a site of nerve damage, and a site compensating for the function of a site of nerve damage.

21: 2024/04218. 22: 2024/05/30. 43: 2025/06/23
51: A61K C07H
71: ADJUVANCE TECHNOLOGIES, INC.
72: WENGER, Jared, William, CHAUHAN, Harsh, Vardhan
33: US 31: 63/277,001 32: 2021-11-08
33: US 31: 63/351,057 32: 2022-06-10
**54: ADJUVANT COMPOUNDS AND FORMULATIONS**
00: -
The present application relates to triterpene glycoside saponin-derived adjuvants, syntheses thereof, and intermediates thereto. The application also provides formulations and pharmaceutical compositions comprising compounds of the present invention and methods of using said compounds, formulations, or compositions in the treatment of and immunization for infectious diseases.




21: 2024/04277. 22: 2024/05/31. 43: 2025/08/12
51: A62C; F16L
71: LUBRIZOL ADVANCED MATERIALS, INC.
72: KACIK, Mark, MIDLIK, Andrew J., GUHDE, Brian, ZOOK, Christopher D.
33: US 31: 63/290,773 32: 2021-12-17
**54: PIPE APPARATUS, COUPLING DEVICES, AND METHODS**
00: -
Pipe apparatus can include a coupling device with a seal circumscribing a central axis. The seal further includes a first circumferential pocket at least partially defined by a first and second circumferential flange. A fluid guide device positioned at least partially within the first circumferential pocket includes a plurality of segments that are radially arranged to circumscribe the central axis. The fluid guide device at least partially defines a fluid path. Methods can include using the coupling device to couple a first end portion of a first pipe segment to a second end portion of a second pipe segment. Methods of using the pipe apparatus can include passing fluid through the fluid path to cool the seal.

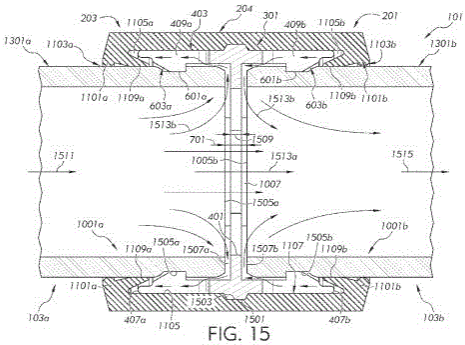
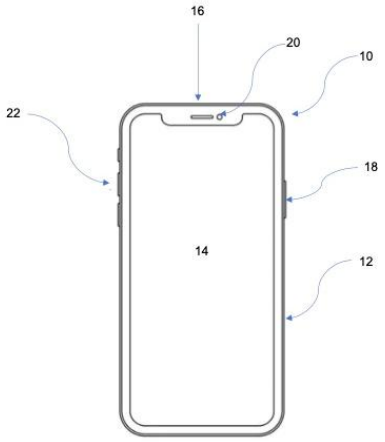


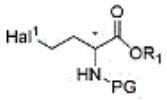
FIG. 15

21: 2024/04352. 22: 2024/06/04. 43: 2024/12/20
51: G06F
71: ALPHA91 ENTERPRISES (PTY) LTD
72: ALISCHIA MYBURGH, REGARDT MYBURGH
**54: SECURITY SYSTEM AND APPARATUS**
00: -
This invention generally relates to a multifunctional apparatus, and more particularly relates to a multifunction apparatus embedding multiple security solutions in a single handheld device.




21: 2024/04371. 22: 2024/05/31. 43: 2025/06/19
51: C07F; C07C
71: LIER CHEMICAL CO., LTD., GUANGAN LIER CHEMICAL CO., LTD.
72: LIU, YONGJIANG, ZHOU, LEI, ZENG, WEI, XU, MIN, CHENG, KE, YIN, YINGSUI
33: CN 31: 202010064268.7 32: 2020-01-20
**54: PREPARATION METHOD FOR GLUFOSINATE AMMONIUM**
00: -
A preparation method for glufosinate ammonium or a salt thereof, an enantiomer thereof, or mixtures of the enantiomer thereof in all ratios, comprising reacting a compound of formula (II) or a salt, an

enantiomer, or mixtures of the enantiomer in all ratios with one or more compounds of formula (III) or mixtures thereof.

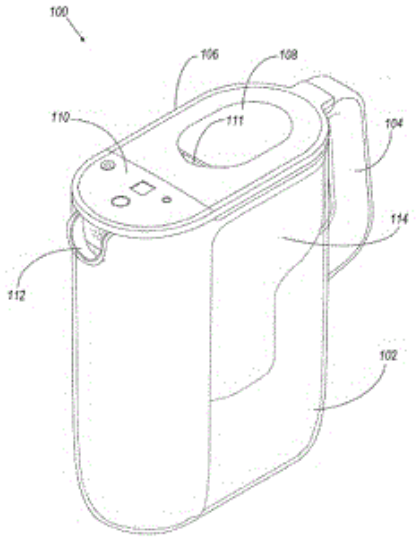



(II)

(III)

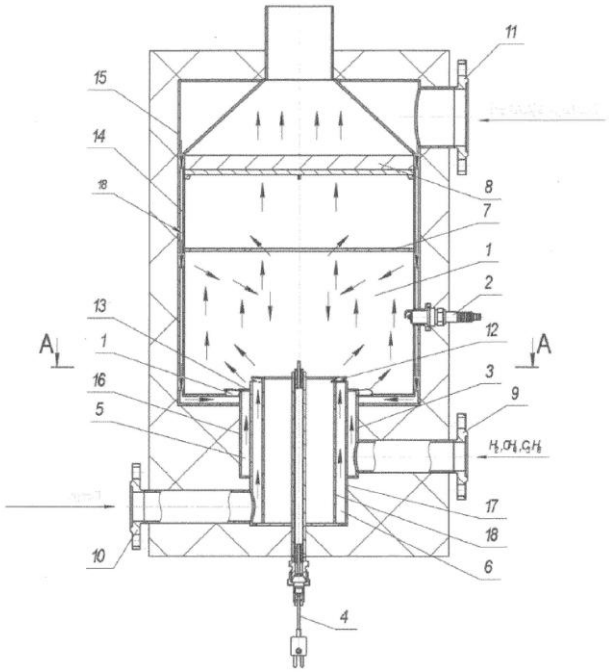
21: 2024/04418. 22: 2024/06/06. 43: 2025/06/11
51: D04H
71: TEXOL S.R.L.
72: GAGLIARDINI, ALESSANDRO, CIMINI, CARMINE, ODOARDI, RENZO MARCELLO
33: IT 31: 102022000000437 32: 2022-01-13
**54: HEMP HURD-BASED NONWOVEN MATERIAL AND RELATED PRODUCTION METHOD**
00: -
The present invention relates to a non-woven material, and to the related preparation method, which allows to guarantee a good absorbent power towards biological liquids, by using a cheaper and more sustainable material than the currently used materials such as cellulose pulp, synthetic fibers, cotton fibers, viscose fibers or superabsorbent polymers. In particular, the invention relates to a non-woven material having absorbent properties and to the related production method, comprising a portion of hemp hurd powders and/or fibrils and a portion of synthetic or natural fibres or a combination thereof, characterized in that the hemp hurd powders and/or fibrils are cohesive with said synthetic or natural fibers or a combination thereof.

21: 2024/04850. 22: 2024/06/20. 43: 2025/06/23
51: C02F; A61L; H10N
71: SODASTREAM INDUSTRIES LTD.
72: RING, ALLAN, COHEN, AVRAHAM, WAISMAN, ALON, GUR, VLADISLAV
33: US 31: 17/578,454 32: 2022-01-19
**54: WATER TREATMENT PITCHER**
00: -
A water treatment pitcher includes a portable container, with a cover to and a filling inlet, and a spout for dispensing filtered water. The pitcher has an upper water basin inside the portable container for receiving water, having a filter seat for a filter. The water basin allows the filtered water to drip into and be collected in a space of the container that is lower with respect to the filter when the container is upright; and an ultraviolet (UV) generator configured to radiate UV radiation from a UV emitter on the water collected in the space and to radiate UV radiation from the UV emitter onto the filtered water as it drips from an outlet of the upper water basin to the space of the container that is lower with respect to the filter.



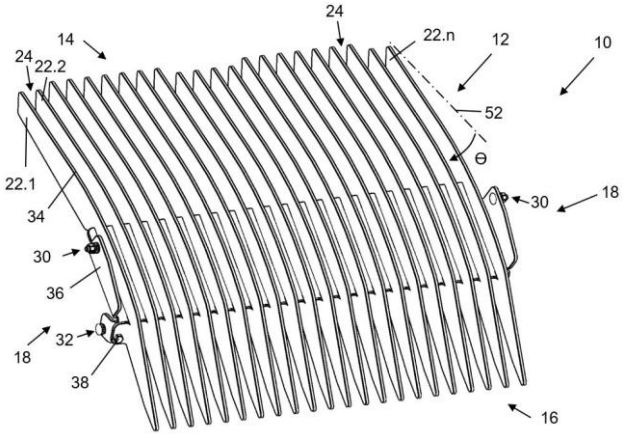

21: 2024/04876. 22: 2024/06/21. 43: 2025/07/11
51: F23C; F23L; F23N
71: JOINT STOCK COMPANY "ROSENERGOATOM", FEDERAL'NOE GOSUDARSTVENNOE UNITARNOE PREDPRIYATIE 'ROSSIYSKIY FEDERAL'NIY YADERNIY TSENTR - VSEROSSIYSKIY NAUCHNO-ISSLEDOVATEL'SKIY INSTITUT EKSPEREMENTAL'NOY FIZIKI', SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE
72: BRIZITSKIY, Oleg Fedorovich (deceased), TERENT'EV, Valeriy Yakovlevich, MOROZOV, Yuriy Vasil'evich, KHROBOSTOV, Lev Nikolayevich, FILIMONOV, Sergey Vladimirovich
33: RU 31: 2021138240 32: 2021-12-22
**54: DEVICE FOR COMBUSTING AMMONIA**
00: -
The invention relates to the field of chemical engineering, and more particularly to a device for combusting ammonia, which can be used in heating devices for producing heat and in devices for decomposing ammonia into a nitrogen-hydrogen mixture. The device for combusting ammonia comprises a cylindrical combustion chamber, a device for supplying air-ammonia mixture, including

at least one main channel for its supply, at the outlet of which is installed tangential swirler, spark plug installed in the combustion chamber, a channel for supplying auxiliary fuel with increased flammability. A cylindrical body is introduced, inside of which a cylindrical combustion chamber is located coaxially with the formation between them, the entrance of the main channel and the tangential swirler, an additional annular channel for supplying and heating the air-ammonia mixture, wherein the cylindrical side surfaces of the body and the combustion chamber have at least one through hole for installation of the spark plug, a flame sensor, a device for secondary air supply and a flame stabilizer are introduced, wherein the combustion chamber is a cooling chamber, at the outlet of which a catalytic unit is installed. The achieved technical result is the increase of ecological parameters of the burner, reliability of its operation and safety.




21: 2024/05141. 22: 2024/07/01. 43: 2025/07/01
51: A01B; A01C
71: ROVIC INTERNATIONAL (PTY) LTD
72: VAN ZYL, Casper Jacobus Johannes
33: ZA 31: 2023/06771 32: 2023-07-03
**54: SEPARATOR AND AGRICULTURAL SPREADER**
00: -

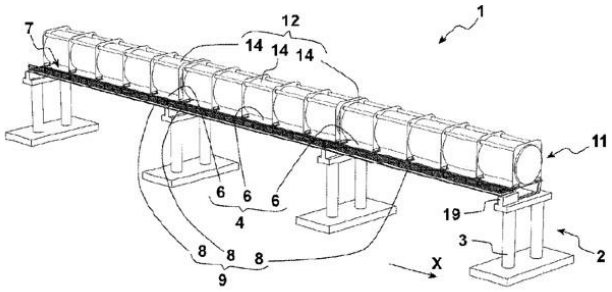
There is provided a separator and an agricultural spreader. The separator includes a guide frame that extends from a leading end toward a trailing end thereof. A mounting structure is arranged to fit the guide frame to an agricultural machine such as the spreader. Particulate material of various sizes can be supplied to the guide frame. The guide frame has a plurality of guide members that are spaced from one another so as to define gaps that are sized to permit particulate material having a smaller size than the gaps to fall through the guide frame. The guide members are arranged to separate particulate material that is larger in size than the gaps from the smaller particulate material. The guide frame is shaped to operatively guide the larger particulate material over the guide frame.



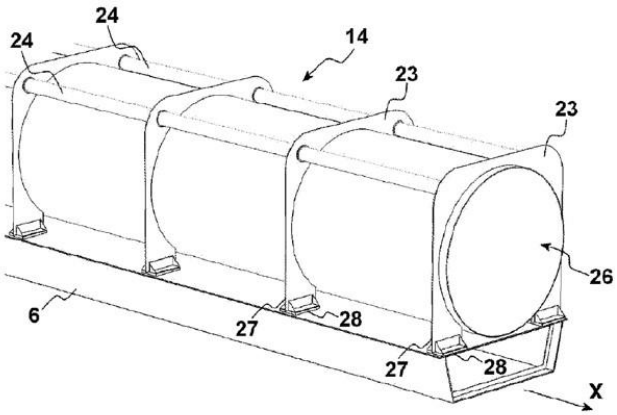

21: 2024/05161. 22: 2024/07/02. 43: 2025/08/13
51: B32B; B65D
71: ALPLA WERKE ALWIN LEHNER GMBH & CO. KG
72: Robert SIEGL
33: CH 31: 070736/2021 32: 2021-12-17
**54: REUSABLE PLASTIC BOTTLE**
00: -
The invention relates to a reusable plastic bottle for receiving a product, which bottle consists of a plastic material that absorbs odorous molecules from the product or from residues of the product. Coffee additives and/or coffee flavors are added to the plastic material, thereby reducing the penetration of odorous molecules into the plastic and reducing, masking or neutralizing off-odors of the odorous molecules.

21: 2024/05487. 22: 2024/07/15. 43: 2025/07/25

51: B61B; E01B; E01D
71: ARCELORMITTAL
72: Giuseppe SELLITTO, MICHAËL GREMLING, Elena DI SILVESTRO
**54: METHOD FOR ERECTING A TRANSPORTATION STRUCTURE**
00: -
The invention relates to a method for erecting a portion of a transportation structure comprising a first assembly of tube segments, capable of being placed under low air pressure and through which pods may travel substantially free of air friction, the method comprising: (a) erecting a substructure comprising a first plurality of girders forming a first transportation pathway and a plurality of platforms forming a service pathway, the erecting step comprising conveying with vehicle(s) the girders and platforms along the first transportation pathway, positioning them and having the vehicle(s) return along the service pathway, (b) conveying, with vehicle(s), the tube segments along the first transportation pathway, positioning them and having the vehicle(s) return along the service pathway. The invention also relates to the portion of transportation structure thereof.

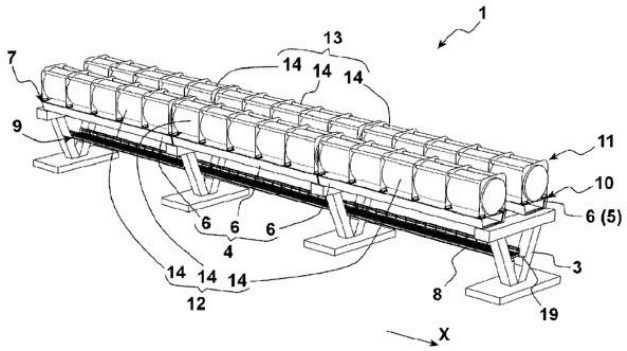



21: 2024/05555. 22: 2024/07/17. 43: 2025/07/25
51: B61B; E01B; E01D; F16L
71: ARCELORMITTAL
72: Giuseppe SELLITTO, MICHAËL GREMLING, Elena DI SILVESTRO
**54: TRANSPORTATION STRUCTURE**
00: -
The invention relates to of a portion of transportation structure comprising: a substructure comprising a plurality of piers, a first plurality of girders (6) positioned on at least some of the piers and forming a first transportation pathway, a first assembly of tube segments (14), capable of being placed under low air pressure and through which pods may travel substantially free of air friction, the first assembly of tube segments been positioned on the first transportation pathway and each tube segment comprising: a main tube with legs (27) distributed along the length of the main tube and suitable for the main tube to rest on the substructure on its legs, shims (28) positioned in-between the substructure and at least part of the legs, the thickness of each shim been adapted so that the deflection of the substructure between piers is offset.

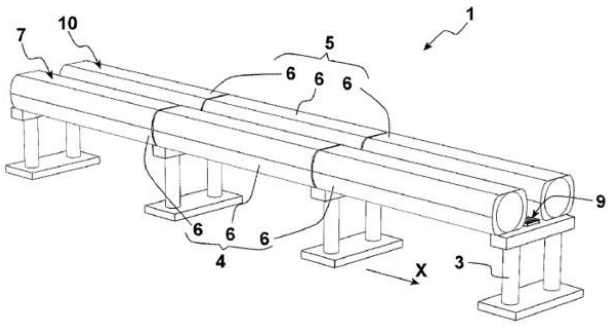



21: 2024/05560. 22: 2024/07/17. 43: 2025/07/25
51: B61B; E01B; E01D; F16L
71: ARCELORMITTAL
72: Giuseppe SELLITTO, MICHAËL GREMLING, Elena DI SILVESTRO
**54: METHOD FOR ERECTING A TRANSPORTATION STRUCTURE**
00: -
The invention relates to a method for erecting a portion (1) of a transportation structure comprising two assemblies (12, 13) of tube segments (14), capable of being placed under low air pressure and through which pods may travel substantially free of air friction, the method comprising: (a) erecting a substructure (2) comprising a first plurality of girders (6) forming a first transportation pathway (7), a second plurality of girders forming a second transportation pathway and a plurality of platforms forming a service pathway (10), the erecting step comprising conveying with vehicle(s) the girders and platforms along the first and/or second transportation pathway, positioning them and having the vehicle(s) return along the service pathway, (b) conveying, with vehicle(s), the tube segments along the first and/or second transportation pathway, positioning them and having the vehicle(s) return along the service

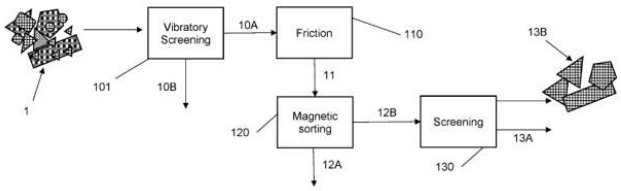
pathway. The invention also relates to the portion of transportation structure thereof.




21: 2024/05592. 22: 2024/07/18. 43: 2025/07/25
51: B61B; E01B; E01D; F16L
71: ARCELORMITTAL
72: Giuseppe SELLITTO, MICHAËL GREMLING, Elena DI SILVESTRO
**54: METHOD FOR ERECTING A TRANSPORTATION STRUCTURE**
00: -
The invention relates to a method for erecting a portion of a transportation structure comprising a plurality of piers (3), a plurality of platforms (8) forming a service pathway, a first plurality of girders (6) forming a first assembly of tube segments (14) and a first rooftop transportation pathway (7), a second plurality of girders (6) forming a second assembly of tube segments (14) and a second rooftop transportation pathway (10), both assemblies being capable of being placed under low air pressure and through which pods may travel substantially free of air friction, the method comprising conveying with vehicle(s) the girders and platforms along the first and/or second rooftop transportation pathway, positioning them and having the vehicle(s) return along the service pathway. The invention also relates to the portion of transportation structure thereof.

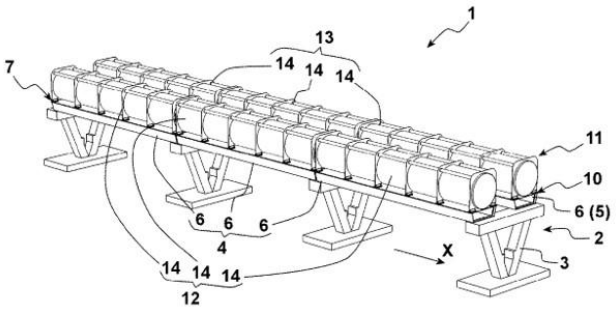



21: 2024/05625. 22: 2024/07/19. 43: 2025/07/25
51: B03C; B09B; C22B
71: ARCELORMITTAL
72: Asier VICENTE ROJO, Philippe Marcel RUSSO
**54: METHOD FOR THE TREATMENT OF FERROUS SCRAP COMPRISING MAGNETIC AND NONMAGNETIC MATERIALS AND ASSOCIATED PLANT**
00: -
A method for the treatment of ferrous scrap (1) comprising magnetic and non-magnetic materials, said method comprising at least a friction step (110) wherein the ferrous scrap is subjected to a mechanical friction to obtain cleaned scrap (11) and a magnetic sorting step (120) wherein the cleaned scrap (11) is separated into a non-magnetic coarse fraction (12A) and a magnetic coarse fraction (12B). Associated steelmaking method and plant.

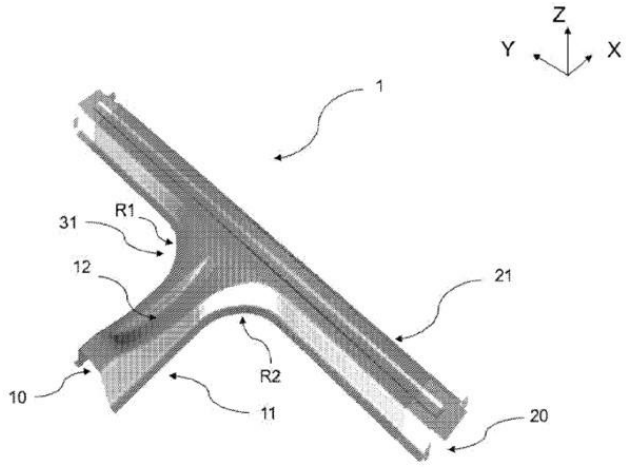



21: 2024/05626. 22: 2024/07/19. 43: 2025/07/25
51: B61B; E01B; E01D; F16L
71: ARCELORMITTAL
72: Giuseppe SELLITTO, Michaël GREMLING, Elena DI SILVESTRO
**54: METHOD FOR ERECTING A TRANSPORTATION STRUCTURE**
00: -
The invention relates to a method for erecting a portion of a transportation structure comprising two assemblies of tube segments, capable of being placed under low air pressure and through which pods may travel substantially free of air friction, the method comprising: (a) erecting a substructure comprising a first plurality of girders forming a first

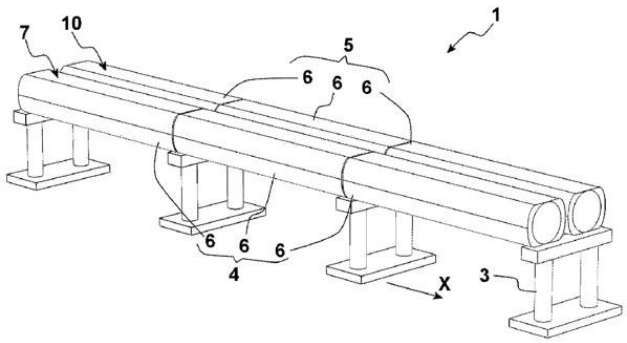
transportation pathway and a second plurality of girders forming a second transportation pathway, the erecting step comprising conveying with vehicle(s) the girders along one single transportation pathway, positioning them and having the vehicle(s) return along the other transportation pathway, (b) conveying, with vehicle(s), the tube segments along one single transportation pathway, positioning them and having the vehicle(s) return along the other transportation pathway. The invention also relates to the portion of transportation structure thereof.




21: 2024/05629. 22: 2024/07/19. 43: 2025/07/25
51: B62D
71: ARCELORMITTAL
72: Joel WILSIUS, Gilson DONYA
33: IB 31: PCT/IB2022/052208 32: 2022-03-11
**54: VEHICLE FLOOR PANEL REINFORCEMENT MEMBER**
00: -
Floor panel reinforcement member (1) for an automotive vehicle (100) attached to a floor panel (3) and comprising at least: -a front longitudinal portion (11) extending substantially longitudinally from a dash panel (4) to a transition portion (31) and forming with said floor panel (3) a front longitudinal hollow volume (10), -a front transverse portion (21) extending in a substantially transverse direction between right and left side sills (61, 62) of said vehicle, forming with said floor panel (3) a front transverse hollow volume (20) and connected to said front longitudinal portion (11 ) in the transition portion (31), wherein said floor panel reinforcement member (1 ) is manufactured by forming a single metal blank (7).




21: 2024/05630. 22: 2024/07/19. 43: 2025/08/13
51: B61B; E01B; E01D
71: ARCELORMITTAL
72: Giuseppe SELLITTO, Michaël GREMLING, Elena DI SILVESTRO
**54: METHOD FOR ERECTING A TRANSPORTATION STRUCTURE**
00: -
The invention relates to a method for erecting a portion of a transportation structure comprising a plurality of piers (3), a first plurality of girders (6) forming a first assembly of tube segments and a first rooftop transportation pathway (7), a second plurality of girders forming a second assembly of tube segments and a second rooftop transportation pathway (10), both assemblies being capable of being placed under low air pressure and through which pods may travel substantially free of air friction, the method comprising conveying with vehicles the girders along one single rooftop transportation pathway, positioning them and having the vehicles return along the other rooftop transportation pathway. The invention also relates to the portion of transportation structure thereof.




21: 2024/05978. 22: 2024/08/02. 43: 2025/07/01
51: B65D
71: VINCO STEEL (PTY) LTD
72: LOUBSER, Nicolaas Willem
**54: PRODUCE BIN ASSEMBLY**
00: -

A produce bin assembly is provided which includes a bin pivotally mounted on a base to be movable between a storage condition in which the bottom of the bin rests generally adjacent the base, and a tipped condition in which the contents of the bin can be tipped out of it with the base in a generally horizontal condition. A hydraulic ram, connectable to a source of water under pressure to be operable thereby, is provided between the bin and base and operable to move the bin between the storage condition and tipped condition.

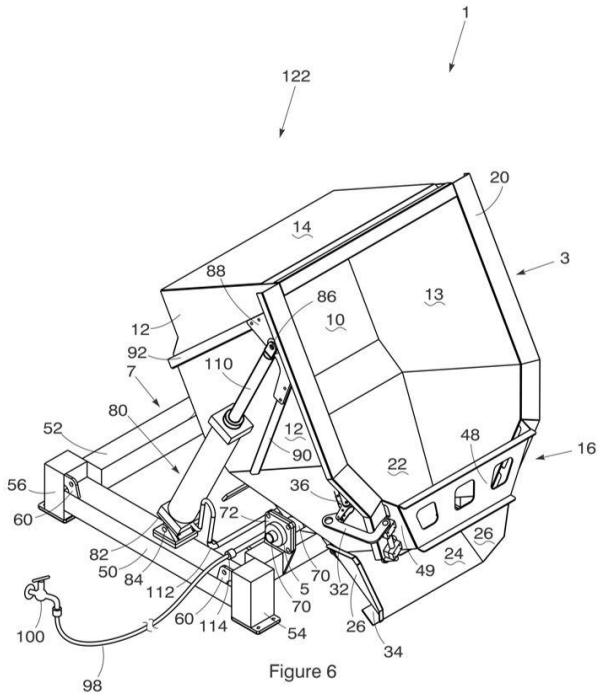
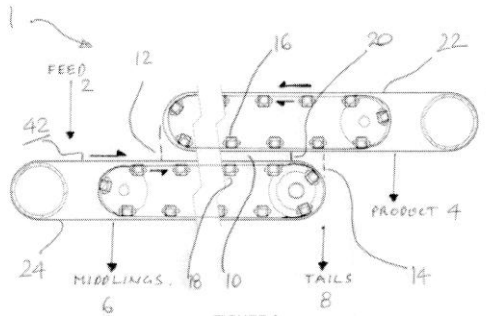


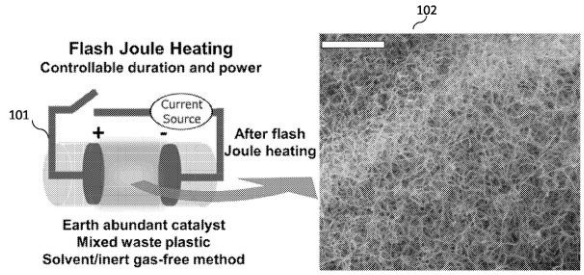
Figure 6

21: 2024/07397. 22: 2024/09/27. 43: 2025/07/02
51: B03C; H01F
71: DRY TAIL IP PTY LTD
72: KUCHEL, Ian (deceased)
33: AU 31: 2022900996 32: 2022-04-14
**54: APPARATUS AND METHOD FOR MAGNETISING MATERIALS**
00: -

An apparatus is disclosed for inducing magnetism in a flowstream of at least partially magnetisable, dry particulate feed material, in order to effect a subsequent particle classification. The dry separation stage is located proximal to the magnetic induction apparatus, in the form of a treatment chamber 10 with a plurality of spaced-apart magnets 16, 18 located adjacent to, and moveably displaceable along the length of both an upper and a lower side region of the treatment chamber 10, to generate a localised magnetic induction field zone. Conveyer belts 22, 24 carrying the dry particles move across each of the outer faces of the magnets 16, 18 on both sides of the chamber 10, but at differential relative velocities to each other, creating a region of air-particle fluidisation and agitation within the treatment chamber 10 and then a physical separation of the particulate feed material can occur based upon their susceptibility to magnetic induction.




21: 2024/08596. 22: 2024/11/12. 43: 2025/06/06
51: C01B; H05B
71: William Marsh Rice University
72: TOUR, James M., LI, John Tianci, WYSS, Kevin, CHEN, Jinhang, CHEN, Weiyin, EDDY, Lucas, SCOTLAND, Phelecia
33: US 31: 63/341,934 32: 2022-05-13
**54: FLASH JOULE HEATING FOR PRODUCTION OF 1D CARBON AND/OR BORON NITRIDE NANOMATERIALS**
00: -
Flash Joule heating (FJH) for production of one-dimensional (1D) carbon and/or boron nitride nanomaterials, and 1D materials integrated with 0D, 1D, 2D, and 3D nanomaterials, composites, nanostructures, networks, and mixtures thereof. Such materials produced by FJH include 1D carbon and hybrid nanomaterials, boron nitride nanotubes (BNNTs), turbostratic boron-carbon-nitrogen (BCN), doped (substituted) graphene, and heteroatom doped (substituted) re-flashed graphene.




21: 2024/08640. 22: 2024/11/13. 43: 2025/06/06
51: E05B
71: dormakaba Schweiz AG
72: GUGERLI, Benjamin, RAIMANN, Christian, KORNHOFER, Markus
33: CH 31: 000446/2022 32: 2022-04-14
**54: KEY ELEMENT, LOCK CYLINDER, LOCKING SYSTEM, AND METHOD**
00: -
The flat key (1) comprises a key head and a key shank which extends along a key axis from the key head to a front key tip and has two parallel flat sides and two mutually opposing narrow sides. On at least one of the flat sides, an inlet groove extending from the key tip in parallel with the key axis is provided which has a non-constant depth along its axial extent. The inlet groove can have a first depth, in particular in a tip region, and a second, greater depth in a coding region remote from the key tip. According to the present invention, the inlet groove is undercut, as a result of which an expanded sensing head (154) of a block tumbler 141 can engage therein.

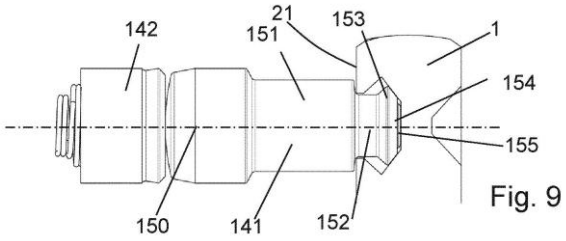
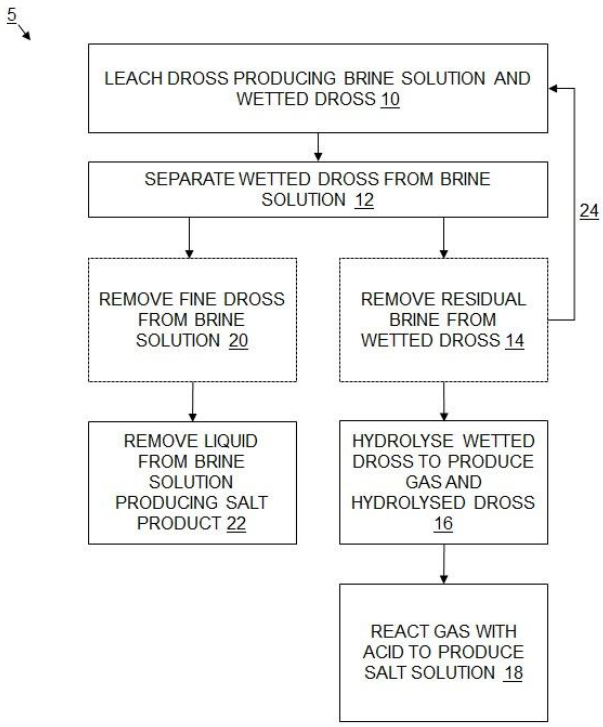
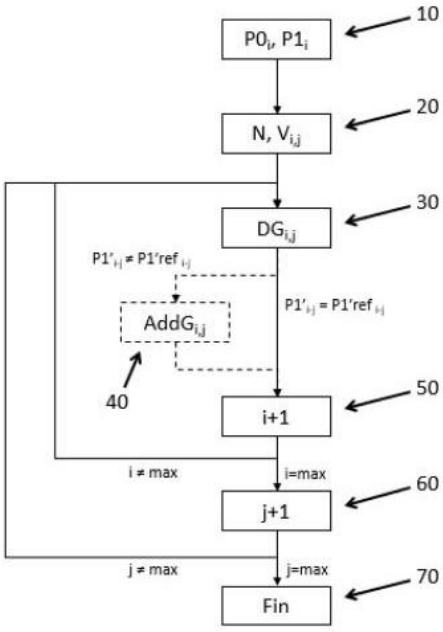


Fig. 9

21: 2024/08657. 22: 2024/11/14. 43: 2025/05/27
51: C01C; C01F; C22B
71: FINEXTECH (PTY) LTD
72: FINCH, Dennis
**54: PROCESS FOR REMOVING SALTS FROM AN ALUMINIUM DROSS**
00: -
A process is described for the removal of salts from an aluminium dross. The process comprises leaching particulate dross with a solvent to produce a brine solution and wetted dross. Separating the wetted dross from the brine solution. Hydrolysing the wetted dross to produce gas and a hydrolysed dross. Reacting the gas with an acid producing a salt solution. Removing liquid from the brine solution to produce a salt product.




21: 2024/08671. 22: 2024/11/14. 43: 2025/07/01
51: B60C
71: TELEFLOW SAS
72: ONILLON, Vincent
33: FR 31: 2205459 32: 2022-06-07
**54: INFLATION METHOD FOR A VEHICLE PROVIDED WITH A CENTRALISED TYRE INFLATION SYSTEM**
00: -
The invention relates to a method for adjusting the tyre pressure of a vehicle by means of a central tyre inflation system, CTIS; - the vehicle comprising at least a first group and a second group of tyres (EM i), each group (EM i) comprising at least one tyre; - each group (EM i) having an initial pressure (P0 i); - a predetermined target pressure (P1 i) corresponding to each group (EM i); the method involving carrying out a sequence for adjusting the pressure of each group (EM i) from the initial pressure (P0 i) to the target pressure (P1 i); - the sequence comprising at least one increment (DG i-j) for each group (EM i); each increment (DG i-j) being defined by an air volume (Vi-j) to be added to the tyres of the group (EM i); - the sequence involving adjusting the pressure of the groups (EM i) increment by increment (DG i-j), by switching to another group (EM i) once one increment (DG i-j) has been carried out until each group (EM i) has reached its target pressure (P1 i).

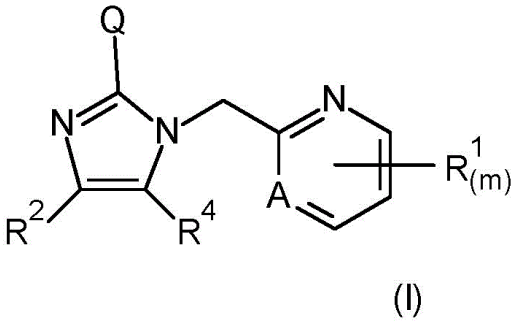



21: 2024/08755. 22: 2024/11/18. 43: 2025/08/07
51: B01D; B01J
71: ZEOCHEM LLC
72: PURCELL, Patrick, WESTON, Kerry C.
33: US 31: 17/807,810 32: 2022-06-20
**54: ADSORBENT FOR SEPARATION OF A GASEOUS STREAM**
00: -
A zeolite adsorbent for separation of oxygen from a gaseous stream. The adsorbent is a blend of a lithium exchanged zeolite 13X, a lithium exchanged low silica X zeolite, and halloysite clay. Also is disclosed a process of making the zeolite adsorbent. Further is disclosed a process for production of oxygen from a gaseous stream utilizing the zeolite adsorbent.

21: 2024/08830. 22: 2024/11/20. 43: 2025/05/29
51: A01N; C07D
71: Syngenta Crop Protection AG
72: DALE, Suzanna, ELVES, Philip Michael, KINGSTON, Charles William Frederick, MORRIS, James Alan, SIKERVAR, Vikas, WATKIN, Samuel Vaughan
33: GB 31: 2209286.0 32: 2022-06-24
**54: HERBICIDAL IMIDAZOLE-CONTAINING COMPOUNDS**

00: -

The present invention relates to compounds of Formula (I) or an agronomically acceptable salt of said compounds wherein A, Q, $R^1$, $R^2$, $R^4$ and m are as defined herein. The invention further relates to herbicidal compositions which comprise a compound of Formula (I) and to the use of compounds of Formula (I) for controlling weeds, in particular in crops of useful plants.



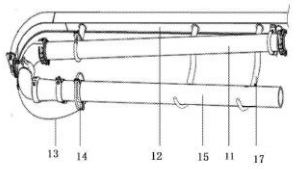

(I)

21: 2024/08832. 22: 2024/11/20. 43: 2025/05/29
51: B22D; E04G; F16L
71: Jiangsu XCMG Construction Machinery Research Institute Ltd., Xuzhou XCMG Schwing Machinery Co. Ltd.
72: ZHANG, Xiang, ZHANG, Zhongyuan, WANG, Haibo

**54: CONCRETE DISTRIBUTING BOOM, CONCRETE PUMPING EQUIPMENT AND METHOD AND EQUIPMENT FOR MANUFACTURING CONCRETE DISTRIBUTING BOOM BRACKET**

00: -

A concrete placing boom (12). The concrete placing boom (12) is provided with supports (17), the supports (17) being configured to support a hose (15) at the tail end of a concrete conveying pipe (11); each support (17) is formed by a multi-layer composite tube made of at least two layers of aluminum alloys that are stacked; the at least two layers of aluminum alloys comprise an outermost-layer aluminum alloy (171) and an innermost-layer aluminum alloy (173); in the at least two layers of aluminum alloys, the outermost-layer aluminum alloy (171) has better wear resistance, and the innermost-layer aluminum alloy (173) has higher rigidity. The supports (17) have improved wear resistance and bearing performance and reduced weight, thereby improving the bearing performance and prolonging the service life of the concrete placing boom (12).

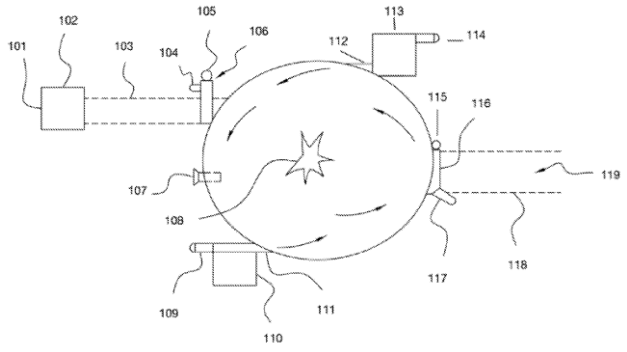



21: 2024/08841. 22: 2024/11/20. 43: 2025/05/29
51: G01N; G02B
71: DE SANTO, Keith Louis
72: DE SANTO, Keith Louis
33: US 31: 63/343,004 32: 2022-05-17
33: US 31: 63/345,825 32: 2022-05-25
33: US 31: 63/353,099 32: 2022-06-17
33: US 31: 63/353,101 32: 2022-06-17

**54: APPARATUS AND METHOD FOR DETECTING MATTER AND MICRO-ORGANISMS**

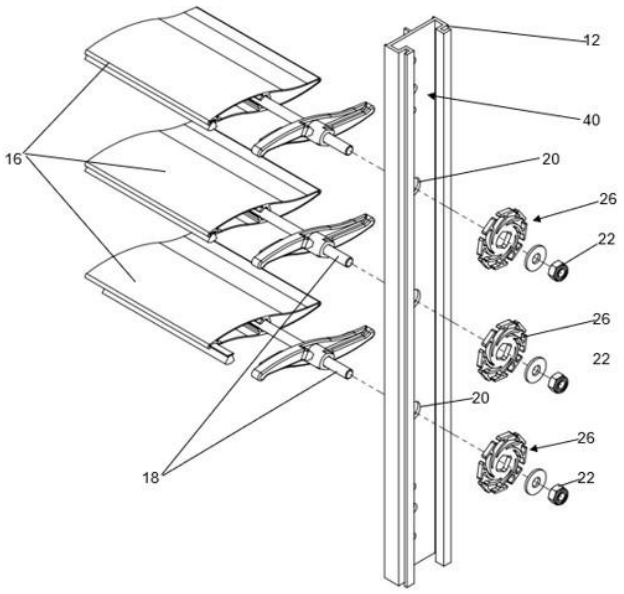
00: -

An apparatus and method of using said apparatus for detecting a matter and microorganisms, the apparatus comprising: at least one sample reservoir having a sample inlet and a sample outlet for holding a sample comprising liquid, matter, and microorganisms; at least one liquid tube connected to a sample outlet of the sample reservoir, wherein the liquid tube comprises a plurality of microscope slides embedded therein, a plurality of image enlargement device located above or below the microscope slide, and a light source for emitting the sample on the plurality of microscope slides; and a control unit having computer software and algorithm programs that manage the operation of the apparatus and identify and classify the sample, wherein the control unit is in electric communication with the at least one sample reservoir and the at least one liquid tube.



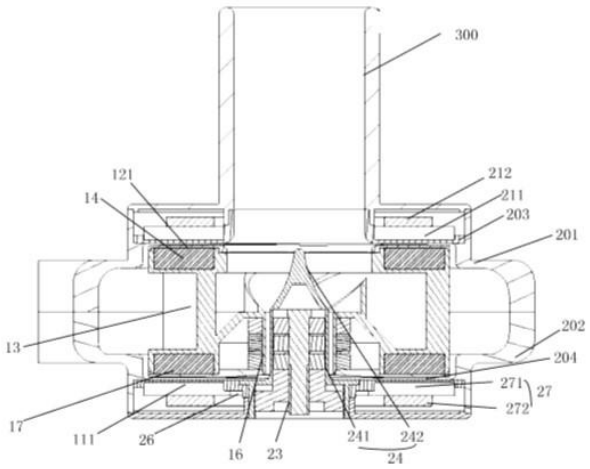

21: 2024/08860. 22: 2024/11/21. 43: 2025/05/29
51: E06B

71: TRELLICOR (PTY) LTD
72: CAMPBELL, Timothy
**54: PIVOT CONTROL MECHANISM FOR A SHUTTER LOUVRE**
00: -
The invention provides a pivot control mechanism, configured to control the pivoting movement of one or more louvres of a louvred shutter, the louvred shutter comprising one or more louvres, each louvre mounted pivotally about its axis between opposed stiles of a rectangular frame, and pivotally interconnected to one another, each louvre having a pivot mounting pin, configured to rotate when the louvre pivots about its axis, projecting from each end wall and receivable in an aperture formed in the stile. The louvre pivot control mechanism comprises an indexing wheel, coaxially receivable on a free end of the pivot mounting pin in a mechanical coupling and locatable in a frictional fit, within a channel defined in the stile, the indexing wheel being configured to rotate in incremental steps within the channel in the stile.

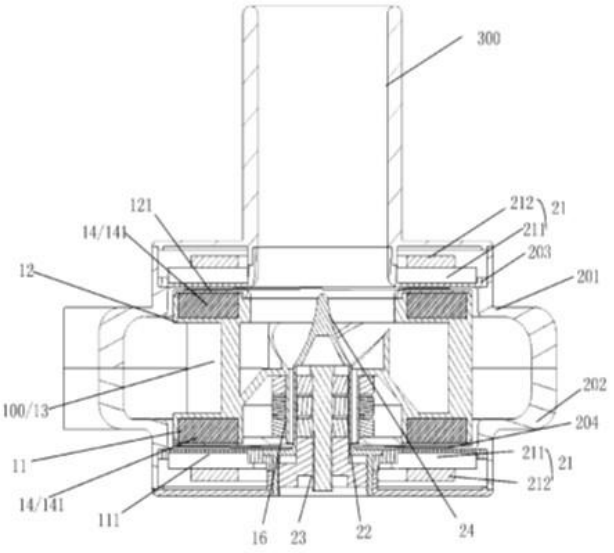



21: 2024/08893. 22: 2024/11/22. 43: 2025/06/13
51: A61M
71: ROCKETHEART TECHNOLOGY CO., LTD
72: HAN, Zhifu, WU, Wenjin, FAN, Qinglin, ZHANG, Xuman, DAI, Ying, JING, Pengfei, SONG, Guogang
33: CN 31: 202210565543.2 32: 2022-05-23

**54: MAGNETIC LEVITATION CENTRIFUGAL PUMP**
00: -
A magnetic levitation centrifugal pump, which comprises a volute (200), a static magnetic ring (22), and a rotor (100); the volute (200) is provided with a levitation cavity, a medium inlet, and a medium outlet; the rotor (100) is located in the levitation cavity, and the static magnetic ring (22) is fixed to the volute (200); the rotor (100) comprises a rotor body, a moving magnetic ring (16) positioned at the rotor body, and at least two blades (13); and the moving magnetic ring (16) and the static magnetic ring (22) are coaxial and in a nested arrangement to limit a radial position of the rotor body and the volute (200); the rotor body is fixedly provided with a magnet assembly (14); the rotor body is further fixedly provided with a magnetic member (17); the volute (200) is packaged with a driving coil assembly (21) arranged opposite the magnet assembly (14), and the driving coil assembly (21) cooperates with the magnet assembly (14) to cause the rotor body to rotate in the circumferential direction; the volute (200) is fixedly provided with a magnetic levitation coil assembly (27), and when electricity is provided to the magnetic levitation coil assembly (27), the magnetic member (17) and the magnetic levitation coil assembly (27) generate an axial force. By means of magnetic action between the moving magnetic ring (16) and the static magnetic ring (22), fully levitating operation of the rotor (100) can be achieved; heat generation and wear are reduced, and the possibility of blood clotting as well as crushing and destroying blood cells is maximally reduced; control over the rotational driving and the axial position of the rotor (100) are completely independent, and the present invention has simple control logic.




21: 2024/08894. 22: 2024/11/22. 43: 2025/05/29
51: A61M
71: ROCKETHEART TECHNOLOGY CO. LTD
72: HAN, Zhifu, WU, Wenjin, FAN, Qinglin, ZHANG, Xuman, DAI, Ying, JING, Pengfei, SONG, Guogang
33: CN 31: 202210565532.4 32: 2022-05-23
**54: MAGNETIC SUSPENSION TYPE CENTRIFUGAL PUMP**
00: -
A magnetic suspension type centrifugal pump, comprising a volute (200), a static magnetic ring (22), and a rotor (100). The volute (200) is provided with a suspension cavity, a medium inlet and a medium outlet. The rotor (100) is located inside the suspension cavity. The static magnetic ring (22) is fixed to the volute (200). The rotor (100) comprises a rotor body and a movable magnetic ring (16) positioned on the rotor body. The movable magnetic ring (16) and the static magnetic ring (22) are coaxial and nested, so as to limit the radial position of the rotor body and the volute (200). The rotor body is further fixed with magnetic steel assemblies (14). The magnetic steel assemblies (14) comprises N first magnetic steels (141) that are circumferentially arranged. The magnetic poles of all the first magnetic steels (141) are arranged in a staggered manner. Drive coil assemblies (21) are further packaged at two ends of the volute (200). The two drive coil assemblies (21) cooperate with the magnetic steel assemblies (14) to provide axial force and rotational force for the rotor body moving in the axial direction. Thus, axial force is provided by means of the magnetic steel assemblies (14) arranged at the two ends of the rotor (100) and the corresponding drive coil assemblies (21) on the volute (200), additional coils and sensor assemblies are not needed, such that the size and the weight can be greatly reduced, and high reliability and miniaturization of a blood pump are achieved.




21: 2024/08899. 22: 2024/11/22. 43: 2025/06/10
51: B60G; B60K; B60P; B62D
71: Softcar SA
72: CHOMAT, Timothée, CROZIER, Etienne, HEISEL, Guillaume, THULIEZ, Jean-Luc
33: PCT/IB 31: 2022/054919 32: 2022-05-25
**54: ALL-TERRAIN SOLAR TRACTOR VEHICLE HAVING INTERCHANGEABLE MODULES**
00: -
Disclosed is an all-terrain electric vehicle which has a simple architecture and on which several modules can be mounted according to the desired use, the vehicle being provided with adjustable suspensions making it possible to change the modules and to adjust the ground clearance, the vehicle also having a structure supporting solar panels for recharging the batteries powering the electric drive, the vehicle being particularly suitable for use in sunny countries with uneven roads.

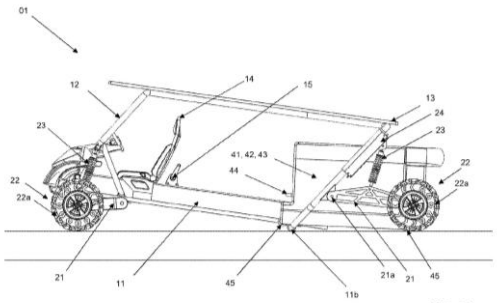


FIG. 5

21: 2024/08956. 22: 2024/11/25. 43: 2025/06/06
51: G01R
71: Siemens Energy Global GmbH & Co. KG
72: NAJAFI, Seyed Amir Mahmood
33: US 31: 63/351,512 32: 2022-06-13
**54: TRANSIENT OVERVOLTAGE DETECTION SYSTEM AND METHOD**
00: -
A detection system for detecting a transient overvoltage event in an electrical system that operates at a system frequency includes an analog circuit connected to the electrical system and having a high pass filter operable to allow for the passage of a transient voltage signal having a signal frequency greater than the system frequency. A digital circuit includes an analog to digital convertor that operates to convert the transient voltage signal to a digital transient voltage signal and a microprocessor operable to receive the digital transient voltage signal, to direct the digital transient voltage signal to a data storage device for storage in an overvoltage database, and to reset the analog circuit. A computer system is operable to output the data stored in the overvoltage database.

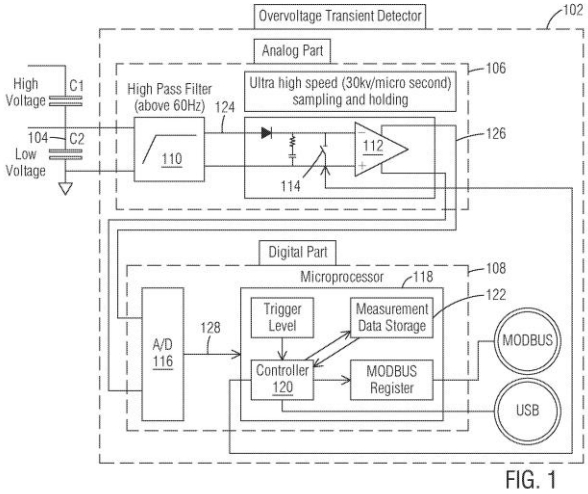


FIG. 1

21: 2024/08969. 22: 2020/02/06. 43: 2025/06/02
51: H04W
71: NOKIA TECHNOLOGIES OY
72: TURTINEN, Samuli, WU, Chunli
**54: RANDOM ACCESS IN COMMUNICATION SYSTEM**
00: -
Embodiments of the present disclosure relate to random access in a communication system. A first device determines whether a contention-free random access resource is allocated from a second device for a first random access type. In accordance with a determination that the contention-free random access resource is allocated, the first device compares a target transport block size corresponding to the contention-free random access resource with a first transport block size configured for a first group of preambles available for the first random access type, and performs random access to the second device based on a result of the comparison.

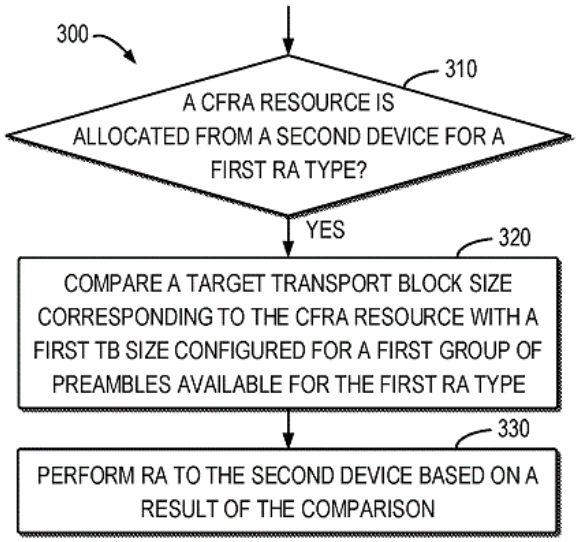
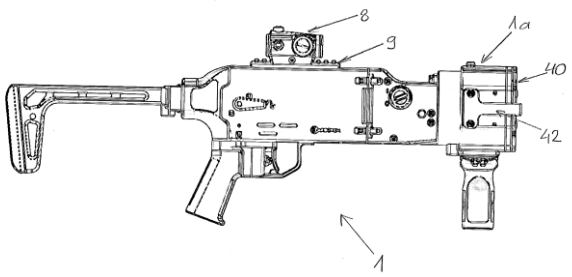
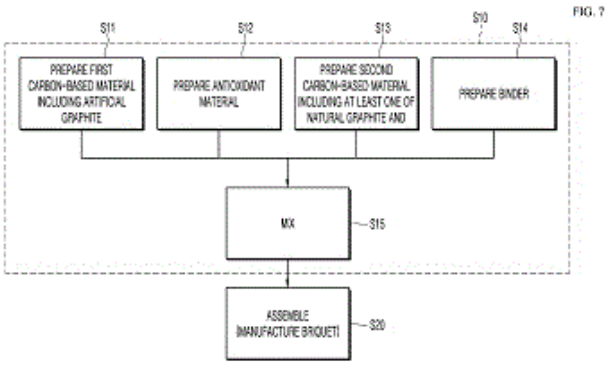


Fig. 3

21: 2024/08993. 22: 2024/11/26. 43: 2025/06/02
51: F41G; F41H; G01S
71: CARBOTEH TECHNOLOGIES D.O.O.
72: KNEŽEVIĆ, Srečko, PETERCA, Primož, SERNEC, Radovan, ZUPANČIČ, Luka, KOSMAČ, Jure
33: SI 31: PCT/SI2022/050018 32: 2022-06-02
**54: DEVICE FOR ANTI-AIRCRAFT SPOOFING AND JAMMING AND AN AIR DEFENSE SYSTEM COMPRISING SAID DEVICE**
00: -
The invention refers to a counter countermeasures device, for use in an anti - aircraft combat. In one embodiment the CCM device together with an anti-aircraft weapon system forms an air defense system. The counter countermeasures device is configured for generating and emitting electromagnetic radiation of appropriate wavelengths and is capable of operating in spoof and jam mode and switching between both modes. The mode of operation is dependent on the selection of the output power of the EM source unit and the distance to the target. The selection of the output power may be done with a mechanical cover or with an electronic solution, decreasing driving current of the EM sources. With the CCM device the anti-aircraft missile launch warning and detection system installed on aircrafts are deceived and the countermeasures are released. With the use of the CCM device the efficiency of the anti-aircraft combat is highly improved, i.e. the probability of the target hit is highly improved.

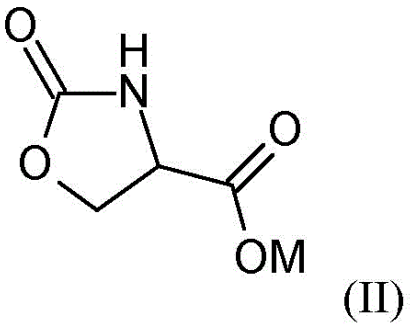



21: 2024/08997. 22: 2024/11/26. 43: 2025/06/02
51: H05B; C04B
71: POSCO CO., LTD
72: KANG, DONG SU, PARK, JAE HOON, LEE, SANG BEOM, PARK, SANG CHAE, LEE, SANG DONG, KIM, YONG IN
33: KR 31: 10-2022-0128663 32: 2022-10-07
**54: COMPOSITION FOR ELECTRODE ROD, ELECTRODE ROD, METHOD FOR MANUFACTURING ELECTRODE ROD, AND METHOD FOR PRODUCING MOLTEN METAL**
00: -
An embodiment of the present invention is directed to a composition for an electrode rod to manufacture an electrode member of an electric furnace, wherein the composition may comprise a first carbon-based material including artificial graphite, an antioxidant material including a material having higher reactivity with oxygen (O) than carbon (C), and a binder. According to embodiments of the present invention, the oxidation resistance of the electrode member provided on the electrode rod of the electric furnace can be improved, and thus the rate at which the electrode member is oxidized can be reduced. Therefore, penciling can be inhibited where the diameter of the electrode member is reduced by oxidation.

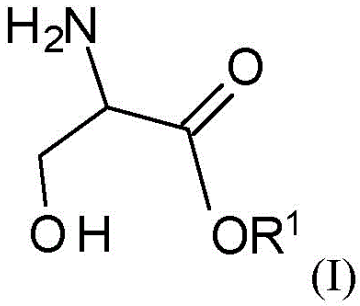


21: 2024/09007. 22: 2024/11/26. 43: 2025/06/02
51: A01N; C07D
71: Syngenta Crop Protection AG
72: GRIBKOV, Denis, UNSINN, Andreas, ANTELMANN, Bjoern, LUETTIN, Antonia
33: EP(CH) 31: 22176222.2 32: 2022-05-30
**54: PROCESS FOR THE PREPARATION OF 4-SUBSTITUTED 2-OXAZOLIDINONES**
00: -

The present invention relates to a process for the preparation of a compound of formula (II) wherein M is selected among Na, K and Li, by reacting a compound of formula (I) wherein $R^1$ is selected among hydrogen, Na, K and Li, with a base, a reagent, and optionally an organic solvent, characterized in that the base is a metal salt of alkoxide.



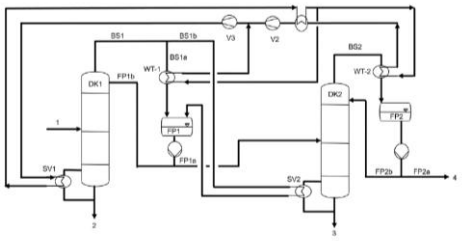
(II)



(I)

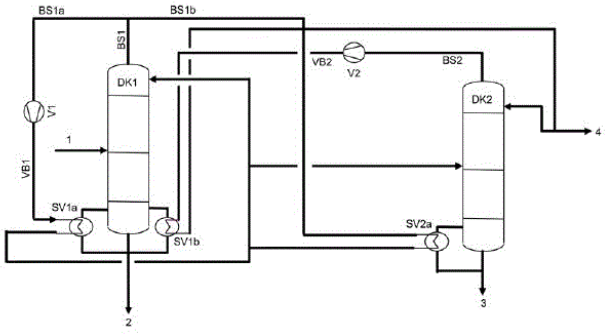
21: 2024/09107. 22: 2024/11/28. 43: 2025/06/05
51: C07C B01D
71: EVONIK OXENO GMBH & CO. KG
72: PAUL, Niklas, RIX, Armin, Matthias, SCHRÖDER, Moritz, SIX, Tanita, Valèrie, STEENWEG, Tanja, MELLAERTS, Wim, KNOSSALLA, Johannes, PEITZ, Stephan, STOCHNIOL, Guido, LAIBLIN, Tobias
33: EP 31: 23213041.9 32: 2023-11-29
**54: ENERGY-EFFICIENT PROCESS FOR SEPARATION OF 1-BUTENE FROM A HYDROCARBON STREAM USING A HEAT TRANSFER MEDIUM**
00: -

The invention provides a process for separating 1-butene from a C4 hydrocarbon stream containing at least 1-butene, 2-butene, n-butane and isobutane in a separation unit comprising at least two distillation columns DK1 and DK2, wherein the heat of condensation is rendered utilizable by means of a heat transfer medium W in order to save energy costs and reduce CO2 emission.

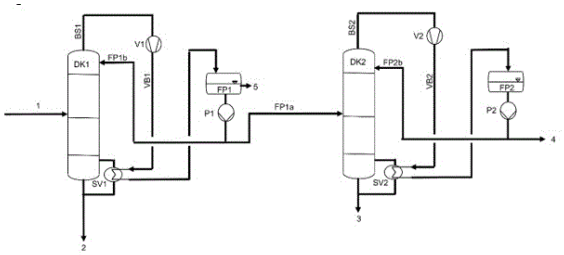



21: 2024/09108. 22: 2024/11/28. 43: 2025/06/05
51: C07C B01D
71: EVONIK OXENO GMBH & CO. KG
72: PAUL, Niklas, RIX, Armin, Matthias, SCHRÖDER, Moritz, SIX, Tanita, Valèrie, STEENWEG, Tanja, MELLAERTS, Wim, KNOSSALLA, Johannes, PEITZ, Stephan, STOCHNIOL, Guido, LAIBLIN, Tobias
33: EP 31: 23213045.0 32: 2023-11-29
**54: ENERGY-EFFICIENT PROCESS FOR SEPARATION OF 1-BUTENE FROM A HYDROCARBON STREAM**
00: -

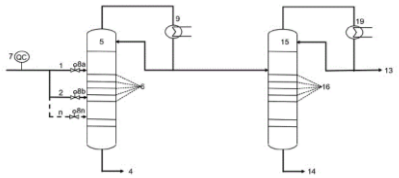
The invention provides a process for separating 1-butene from a hydrocarbon stream containing at least 1-butene, 2-butene, n-butane and isobutane in a separation unit comprising at least two distillation columns DK1 and DK2, wherein the heat of condensation is utilized in order to save energy costs and reduce CO2 emission.



21: 2024/09109. 22: 2024/11/28. 43: 2025/06/05
51: C07C B01D
71: EVONIK OXENO GMBH & CO. KG
72: PAUL, Niklas, RIX, Armin, Matthias, SIX, Tanita, Valèrie, STEENWEG, Tanja, PEITZ, Stephan, STOCHNIOL, Guido, FLEISCHER, Vinzenz, WESSNER, Lea, SCHRÖDER, Moritz
33: EP 31: 23213040.1 32: 2023-11-29
**54: ENERGY-EFFICIENT PROCESS FOR SEPARATION OF 1-BUTENE FROM A HYDROCARBON STREAM WITH OPTIMIZED VAPOUR COMPRESSION**
00: -
The invention provides a process for separating 1-butene from a hydrocarbon stream containing at least 1-butene, 2-butene, n-butane and isobutane in a separation unit comprising at least two distillation columns DK1 and DK2, wherein the heat of condensation is recirculated into the process by optimized vapour compression in order to save energy costs and CO2 emissions.




21: 2024/09110. 22: 2024/11/28. 43: 2025/06/05
51: C07C G01J
71: EVONIK OXENO GMBH & CO. KG
72: PAUL, Niklas, RIX, Armin, Matthias, SIX, Tanita, Valèrie, STEENWEG, Tanja, WESSNER, Lea, OLDEMEYER, Martin
33: EP 31: 23213043.5 32: 2023-11-29
**54: ENERGY-EFFICIENT DISTILLATION PROCESS WITH VARIATION OF INFLOW**
00: -
The invention provides a process for distilling a raffinate 2 stream as feed stream in at least two distillation columns DK1 and DK2, wherein at least the distillation column DK1 has two different inlets for the feed stream. It is a feature of the process that the feed stream is analysed for its composition before being introduced; and one of the at least two inlets for the feeding of the feed stream is chosen depending on the composition of the feed stream.



21: 2024/09111. 22: 2024/11/28. 43: 2025/06/05
51: A01N; A01P; A61K
71: Intervet International B.V.
72: HECKEROTH, Anja Regina, LUTZ, Jürgen, MERTENS, Christina, WILLIAMS, Heike, ZOLLER, Hartmut, MITA, Takeshi
33: US 31: 60/956,448 32: 2007-08-17
33: EP(NL) 31: 07016152.6 32: 2007-08-17
**54: ISOXAZOLINE COMPOSITIONS AND THEIR USE AS ANTIPARASITICS**
00: -
This invention relates to methods for controlling parasitic infestations of animals and their environments, and, more particularly, to methods using isoxazolines to control parasites in or on animals or in their environments, as well as treat parasitoses of animals. The isoxazolines include 4-(isoxazolinyl)-benzamides (specifically, substituted 4-(5-(halomethyl)-5-phenyl- isoxazo lin-3 -yl)-benzamides) and 4-(isoxazolinyl)- benzothioamides (specifically, substituted 4-(5-(halomethyl)-5-phenyl-isoxazolin-3-yl)-benzothioamides). This invention also relates to compositions comprising the isoxazolines for use in such methods, the use of the isoxazolines to make medicaments for use in such methods, and kits comprising the isoxazolines for carrying out such methods. This invention further relates to the use of the isoxazolines as medicaments, particularly medicaments that can be used in the above-referenced method.

21: 2024/09115. 22: 2024/11/28. 43: 2025/06/05
51: H01B
71: ABERDARE CABLES (PTY) LTD
72: SCHOLTZ, Hendrik Paul, WANG, Jian, THULASEE, Vishal Roychand Bharath
**54: MIXED METAL ANTI-THEFT SERVICE CONNECTION CABLE**
00: -
The present invention relates to a service connection electrical power cable 10 specifically designed to deter theft and for use in aerial applications. The cable 10 features an insulated phase conductor 12 which comprises tinned hard-drawn or annealed

Copper Clad Aluminium Alloy (CCAA) elements 12.1. These tinned elements 12.1 reduce the risk of cable theft by obscuring the appearance of copper, thereby making it less attractive to potential thieves, and diminishing the cable's scrap value due to mixed metal contamination. The cable 10 further includes a concentric conductor 14 which comprises split neutral and earth cores, 14.1, 14.2 respectively. The neutral core 14.1 comprises insulated tinned CCAA wires 14.1.1 and the earth core 14.2 comprises three bare tinned CCAA wires. The electrical cable 10 is insulated and accordingly has an outer sheath 15 which surrounds the concentric conductor 14.

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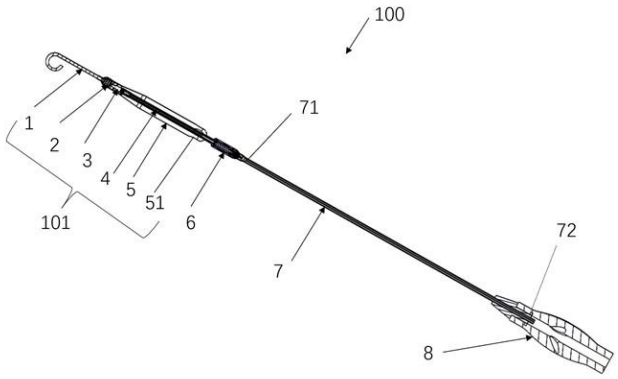
21: 2024/09122. 22: 2024/11/28. 43: 2025/06/06
51: A61M
71: ROCKETHEART TECHNOLOGY CO. LTD
72: HAN, Zhifu, ZHANG, Xuman, FAN, Qinglin, WANG, Xian, WANG, Chao, ZHANG, Hongqing, MA, Hongbin, DING, Mingqian, JING, Pengfei
33: CN 31: 202210991439.X 32: 2022-08-18
33: CN 31: 202222177977.3 32: 2022-08-18
**54: INTERVENTIONAL BLOOD PUMP**
00: -
An interventional blood pump (100), comprising a pump body (101) and a driving unit (6). The pump body comprises a blood inlet (23) and a blood outlet (51). The pump body comprises: a rotatable rigid impeller (3) configured for increasing power for the flow of blood and accommodated in a rigid impeller outer cylinder (34), a proximal end of the impeller being connected to a distal end of the driving unit by means of a flexible shaft (4), wherein a distal end of the impeller outer cylinder communicates with the blood inlet (23), and a proximal end of the impeller outer cylinder comprises an impeller outlet (36); and a radially expandable catheter (5) arranged outside the flexible shaft and extending in at least one part of the length of the flexible shaft, a distal end of the radially expandable catheter being hermetically connected to the impeller outer cylinder and covering the impeller outlet, and a proximal end of the radially expandable catheter being provided with the blood outlet (51). When the catheter is in a radial expansion state, a gap (52) between the catheter and the flexible shaft forms a blood flow channel communicating with the blood inlet (23) and the blood outlet (51). When the pump body is at a working position in the heart, the blood inlet is located in the left ventricle or right ventricle, the blood outlet is located in the aorta or pulmonary artery, and the catheter (5) spans the corresponding arterial valve.

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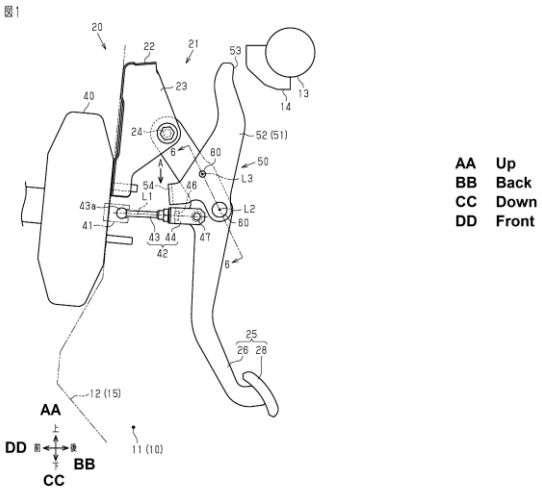
21: 2024/09124. 22: 2024/11/28. 43: 2025/06/06
51: B60T; G05G
71: Toyoda Iron Works Co., Ltd.
72: TSUGUMA, Tomohiro
33: JP 31: 2022-092267 32: 2022-06-07
**54: OPERATION PEDAL DEVICE FOR VEHICLE**
00: -
This operation pedal device for a vehicle comprises: a pedal bracket; an operation pedal; a rotating lever; and a shared part. The rotating lever has a contact part and a pressing part. The rotating lever is configured to rotate about a rotating shaft part such that the pressing part presses an input shaft as a result of the contact part receiving a load equal to or greater than a threshold value when the contact part has contacted a vehicle body component. The shared part is configured: to secure the rotating lever to a pedal arm when a load received by the rotating lever from the vehicle body component is less than the threshold value; and to break and release the secured state when the load is equal to or greater than the threshold value.




21: 2024/09125. 22: 2024/11/28. 43: 2025/06/18
51: H04L
71: Huawei Technologies Co., Ltd.
72: WANG, Yali, ZHANG, Xudong, WANG, Jian
**54: ADDRESS ALLOCATION METHOD AND APPARATUS**
00: -
Provided is an address allocation method. The method comprises: receiving a first message sent by a node, which makes an address application, wherein the first message comprises a first type identifier, which indicates a first address type; and sending a second message to the node, wherein the second message comprises a first network address allocated to a first node or to a service on the node, and the address type of the first network address is the first address type. By means of implementing the present application, a network address of a specified address type can be allocated, and the efficiency of allocating network addresses is improved.

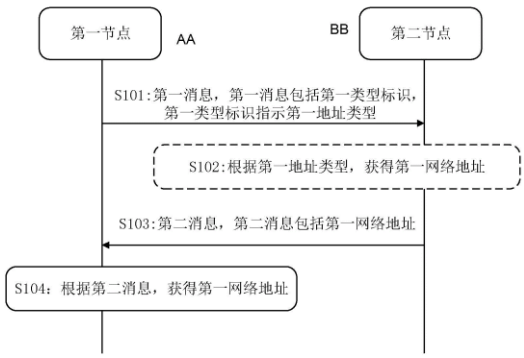
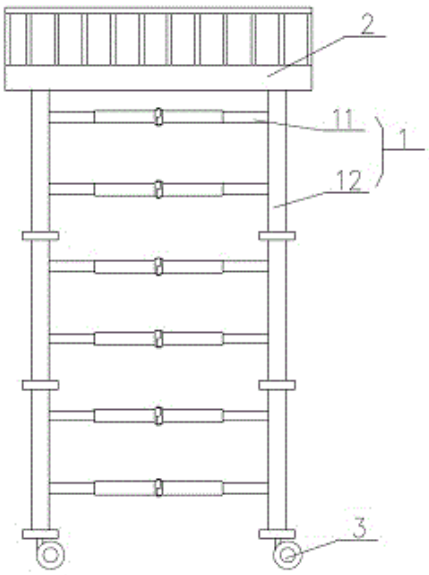



图 3

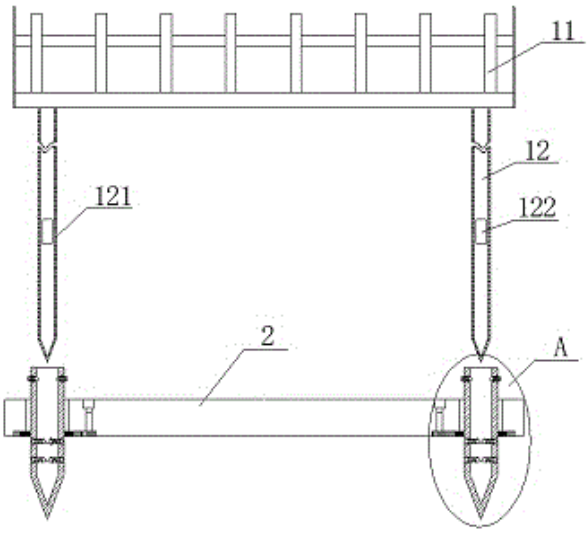
S101 First message, wherein the first message comprises a first type identifier, which indicates a first address type
S102 Obtain a first network address according to the first address type
S103 Second message, wherein the second message comprises the first network address
S104 Obtain the first network address according to the second message
AA First node
BB Second node

21: 2024/09131. 22: 2024/11/28. 43: 2025/06/09
51: E04G
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: DONG, YAN
33: CN 31: 202410382327.3 32: 2024-04-01
**54: QUICK-DISMOUNTING SCAFFOLD**
00: -
The invention discloses a quick-dismounting scaffold, comprising multiple unit frames sequentially spliced in a vertical direction, each unit frame comprising two pairs of jacks and multiple cross bars, any two adjacent jacks being connected by at least one horizontally arranged cross bar, and two pairs of jacks of any two adjacent unit frames being detachably connected; a working platform detachably connected with two pairs of jacks of the topmost unit frame, an edge of the working platform being surrounded by a protective guard, an upper surface of the working platform being provided with an anti-skid layer; and two pairs of universal wheels detachably arranged at bottoms of four jacks corresponding to the bottommost unit frame. The scaffold of the invention is formed by assembling a plurality of unit frames, can be quickly mounted and disassembled, and a height of working platform can be flexibly adjusted according to a working altitude.



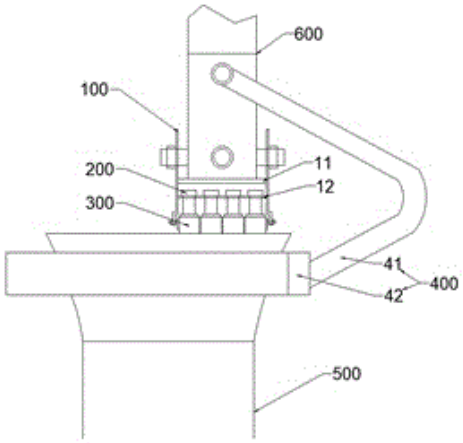

21: 2024/09132. 22: 2024/11/28. 43: 2025/06/06
51: E04G
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: LI, JING
33: CN 31: 202410382348.5 32: 2024-04-01
**54: SCAFFOLD FOR BUILDING CONSTRUCTION**
00: -

The present invention discloses a scaffold for building construction, comprising a base whose corners is provided with a first through hole, a sleeve arranged in first through hole; a mounting cylinder spirally connected with sleeve, slidably connected with first through hole, and provided with multiple second through holes; a first movable block arranged in each second through hole; a scaffold body comprising a working platform and four supporting legs, a lower end of supporting leg being inserted into a mounting cylinder, multiple third through holes annularly arranged on supporting leg, and one end of first movable block penetrating through third through hole to extend into supporting leg. The scaffold is applicable to construction sites with uneven ground, solves technical defects that existing scaffold body is difficultly and stably mounted on uneven ground and is easy to fall, realizes rapid and stable mounting and improves safety in a construction operation.

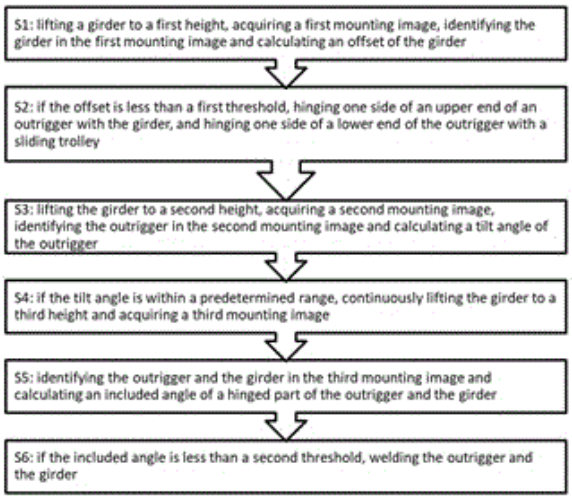



21: 2024/09133. 22: 2024/11/28. 43: 2025/06/06
51: E01D
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: LIU, CHENG
33: CN 31: 202410409491.9 32: 2024-04-07
**54: SUPPORTING DEVICE FOR SUPPORTING LEG OF BRIDGE ERECTING MACHINE**
00: -

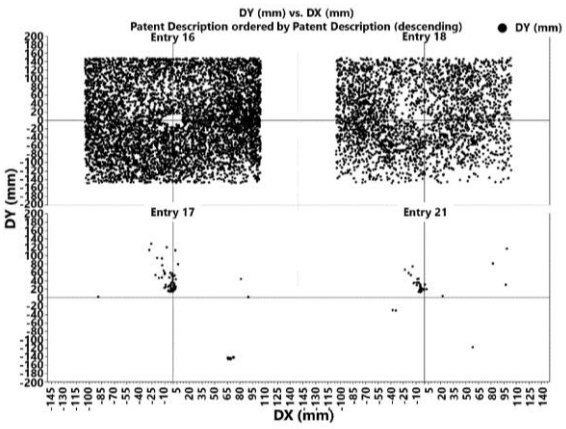
The present invention discloses a supporting device for a supporting leg of a bridge erecting machine, comprising: a base assembly comprising a base arranged at a front supporting leg; multiple lifting drivers arranged in the base; multiple bottom plate supports connected to multiple lifting drivers; a lock sleeve assembly comprising a pair of locking rods hinged on front supporting leg, and provided with a first locking frame; a pair of first tension drivers arranged on first locking frame, telescopic moving ends of first tension drivers being provided with a second locking frame; a pair of second tension drivers arranged on second locking frames, telescopic moving ends of second tension drivers being provided with a third locking frame; multiple pressing units comprising a manipulator, a pressing driver and a pressing plate. The present invention can prevent support of front supporting leg from displacement and instability when laying long-span or sloping bridge.




21: 2024/09134. 22: 2024/11/28. 43: 2025/06/06
51: B66C
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: HE, JUNBIAO
33: CN 31: 202410467521.1 32: 2024-04-18
**54: PORTAL CRANE MOUNTING METHOD**
00: -
The present invention discloses a portal crane mounting method, comprising lifting a girder to a first height, acquiring a first mounting image, identifying girder in first mounting image and calculating an offset; if offset is less than a first threshold, hinging an upper end of an outrigger with girder, and hinging a lower end of outrigger with a sliding trolley; lifting girder to a second height, acquiring a second mounting image, identifying outrigger in second mounting image and calculating a tilt angle; if tilt angle is within a predetermined range, lifting girder to a third height and acquiring a third mounting image; identifying outrigger and girder in the third mounting image and calculating an included angle of a hinged part of outrigger and girder; and if included angle is less than a second threshold, welding outrigger and girder. The present invention controls a mounting process and ensures a mounting accuracy.




21: 2024/09163. 22: 2024/11/29. 43: 2025/06/06
51: A01M; A01N; A01P
71: Syngenta Crop Protection AG
72: CALDWELL, Simon James, PENFOLD, Nicholas Jonathan William, SEVASTOS, Apostolos, TAYLOR, Philip
33: GR 31: 20220100542 32: 2022-07-07
**54: PRECISION APPLICATION DEVICES AND COMPOSITIONS**
00: -
A composition comprising: an agrochemical; diutan gum; and a carrier fluid, wherein the diutan gum is present in an amount of from 0.001 to 2% by weight, wherein the carrier fluid comprises water and is present in an amount of from 65 to 95% by weight.

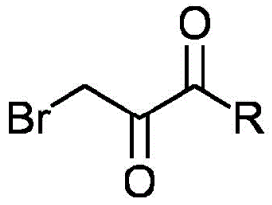



21: 2024/09170. 22: 2024/11/29. 43: 2025/06/13
51: A61K
71: KoDiscovery, LLC
72: KO, Young Hee
33: US 31: 63/337,573 32: 2022-05-02

**54: A SYSTEM AND METHOD FOR COMPARTMENTALIZED INGREDIENTS FOR A LIQUID PHARMACEUTICAL FORMULATION**

00: -

A system of compartmentalized ingredients for a liquid pharmaceutical formulation having a first vessel including a cellular energy inhibitor according to formula I in a first liquid carrier, wherein R is selected from one of OR', N(R")2, C(O)R", C1-C6 alkyl, C6-C12 aryl, C1-C6 heteroalkyl, C6-C12 heteroaryl, H, or an alkali metal, where R' is selected from one of H, an alkali metal, C1-C6 alkyl, C6-C12 aryl or C(O)R"', where $R^1$ is selected from one of H, C1-C6 alkyl, or C6-C12 aryl, and where R"' is selected from one of H, C1-C20 alkyl or C6-C12 aryl, and a second vessel including an excipient in a second liquid carrier that is chemically reactive with the cellular energy inhibitor, wherein admixing the first liquid carrier with the second liquid carrier creates a finished liquid dosage form.




(I);

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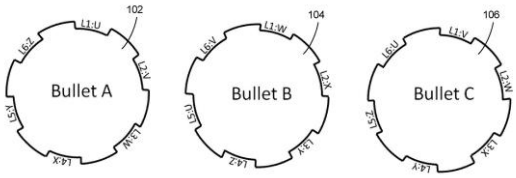
21: 2024/09171. 22: 2024/11/29. 43: 2025/06/12
51: F42B; G06V
71: Forensic Technology (Canada) Inc.
72: ROBERGE, Danny, BEAUCHAMP, Alain, LEVESQUE, Serge
33: US 31: 63/346,927 32: 2022-05-30

**54: METHOD AND SYSTEM FOR BALLISTIC SPECIMEN CLUSTERING**

00: -

There are described a method and a system for generating clusters of ballistic specimens. Using an image acquisition tool, topographic data for at least three ballistic specimens of at least one region of interest is acquired. From the topographic data, at least one parameter characterizing optimal toolmark alignment is determined for every distinct pair of the at least three ballistic specimens, each ballistic specimen having a plurality of toolmarks formed thereon. From the topographic data, at least one pairwise similarity score associated with optimal toolmark alignment is determined for every distinct pair of the at least three ballistic specimens. At least one triplet-wise consistency measure indicative of a consistency of optimal toolmark alignment is determined for every distinct triplet of the at least three ballistic specimens. A cluster analysis is conducted based on the at least one similarity score and the at least one consistency measure to generate the clusters.




$P_{AB}$=4, $P_{BC}$=1, $P_{CA}$=1

$P_{ABC}$=[($P_{AB}$ +$P_{BC}$ +$P_{CA}$) Modulo 6] = [(4+1+1) Modulo 6] = 0

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21: 2024/09177. 22: 2024/11/29. 43: 2025/06/06
51: A61K; A61P; C07C; C07D
71: Acadia Pharmaceuticals Inc.
72: QUIBELL, Martin, SCHULZ-UTERMOEHL, Tim, MURRAY, Fraser
33: GB 31: 2209195.3 32: 2022-06-22

**54: MODULATORS OF G PROTEIN-COUPLED RECEPTOR 88**

00: -

Cycloalkylmethoxy- and cycloalkyloxy-substituted N-benzyl-2-phenylacetamide compounds and derivatives are G-protein coupled receptor (GPR) 88 modulators for use in the treatment of a disease mediated by GPR88. Indications include Tourette's Syndrome, Huntington's Disease (HD), Addiction, Parkinson's Disease (PD), Schizophrenia, and Attention Deficit Hyperactivity Disorder (ADHD), choreiform movements, speech delay, learning disabilities, depression, hyperkinetic movement disorders characterised by chorea and/or dystonia, psychosis, cognitive deficits in schizophrenia, affective disorders, bipolar disorder, Alzheimer's disease and basal ganglia disorders.

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21: 2024/09178. 22: 2024/11/29. 43: 2025/06/06
51: A61K; A61P; C07D
71: Acadia Pharmaceuticals Inc.
72: QUIBELL, Martin, SCHULZ-UTERMOEHL, Tim, MURRAY, Fraser
33: GB 31: 2209193.8 32: 2022-06-22

**54: MODULATORS OF G PROTEIN-COUPLED RECEPTOR 88**

00: -

Alkoxy-substituted N-benzyl-2-phenylacetamide compounds and derivatives are G-protein coupled

receptor (GPR) 88 modulators for use in the treatment of a disease mediated by GPR88. Indications include Tourette's Syndrome, Huntington's Disease (HD), Addiction, Parkinson's Disease (PD), Schizophrenia, and Attention Deficit Hyperactivity Disorder (ADHD), choreiform movements, speech delay, learning disabilities, depression, hyperkinetic movement disorders characterised by chorea and/or dystonia, psychosis, cognitive deficits in schizophrenia, affective disorders, bipolar disorder, Alzheimer's disease and basal ganglia disorders.

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21: 2024/09179. 22: 2024/11/29. 43: 2025/06/06
51: A01K; B63B; D01F; D02G
71: Industrias Chilenas de Alambre Inchalam S.A.
72: CEA WINKLER, Gonzalo Armando, SAAVEDRA CASTALDINI, Álvaro Francisco
33: CL 31: 1212-2022 32: 2022-05-09

**54: METAL CORE COATED WITH PLASTIC LINING HAVING COPPER OXIDE NANOPARTICLES**

00: -

The present invention relates to a core covered with a plastic lining or coating and intended for manufacturing nets to farm fish, as well as securing or anchoring cables. The core slows down the rate of fouling by freshwater and marine biological materials, wherein the plastic coating comprises copper oxide nanoparticles that are distributed throughout the plastic matrix and have a size between 50 and 200 nanometres (nm) with a concentration of 10 to 30% by weight. The copper oxide nanoparticles may be agglomerated, forming an agglomerate having a size between 500 and 1000 nm. The copper oxide nanoparticles are oxidised to a Cu+2 state.

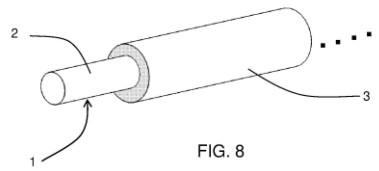

FIG. 8

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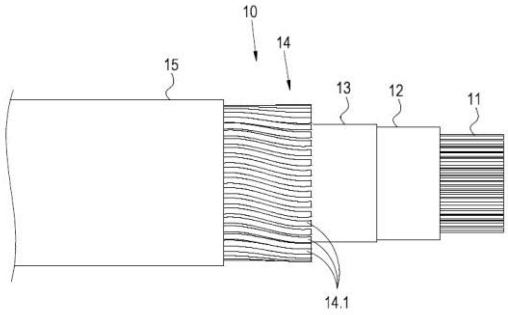
21: 2024/09225. 22: 2024/12/02. 43: 2025/06/10
51: H01B
71: ABERDARE CABLES (PTY) LTD
72: SCHOLTZ, Hendrik Paul, THULASEE, Vishal Roychand Bharath, WANG, Jian

**54: ARMOURING FOR POWER CABLES**

00: -

This invention relates to an electrical power cable which comprises an inner conductor 11, an insulating layer 12 around the inner conductor 11, concentric armour bedding sleeve/layer 13, composite, non-metallic armouring 14 instead of conventional steel wire armouring or aluminium wire armouring and an outer sheath 15. The invention extends to single or multiple core cables and low or medium voltage cables. The non-metallic armouring 14 comprises a plurality of glass reinforced plastic armour elements 14.1 which are helically wound about the bedding sleeve/layer 13. The use of the composite armour elements 14.1 provides a lighter, less expensive alternative to conventional metal armouring used for power cables. These non-metallic fibres, laid helically over a bedding layer, provide high mechanical strength and flexibility while minimizing drawbacks associated with metal armouring.

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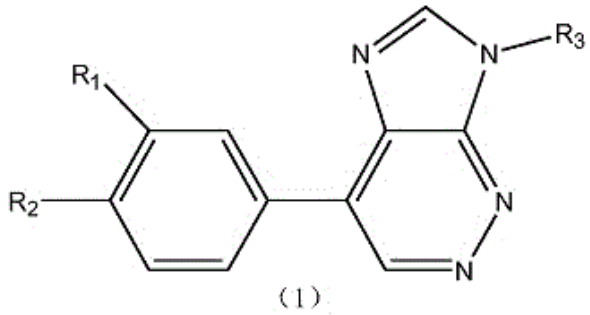
21: 2024/09227. 22: 2024/12/02. 43: 2025/06/10
51: C07D; A61K; A61P
71: SHANGHAI SIMR BIOTECHNOLOGY CO., LTD
72: WANG, FEI, CHEN, NANYANG, SUN, YONG
33: CN 31: 202210542611.3 32: 2022-05-10

**54: IMIDAZOPYRIDAZINE SUBSTITUTED BENZENE RING DERIVATIVE, PREPARATION METHOD, PHARMACEUTICAL COMPOSITION AND USE**

00: -

The present invention relates to an imidazopyridazine derivative, and a preparation method therefor, a pharmaceutical composition thereof and the use thereof. Provided in the present invention are a compound as represented by formula (1), and a stereoisomer, a tautomer, a prodrug, a pharmaceutically acceptable salt, an amorphous

substance, an isotope, a polymorph or a solvate thereof. Further provided are a pharmaceutical composition comprising the compound, and the use of the compound as a $GABA_A$ receptor modulator.



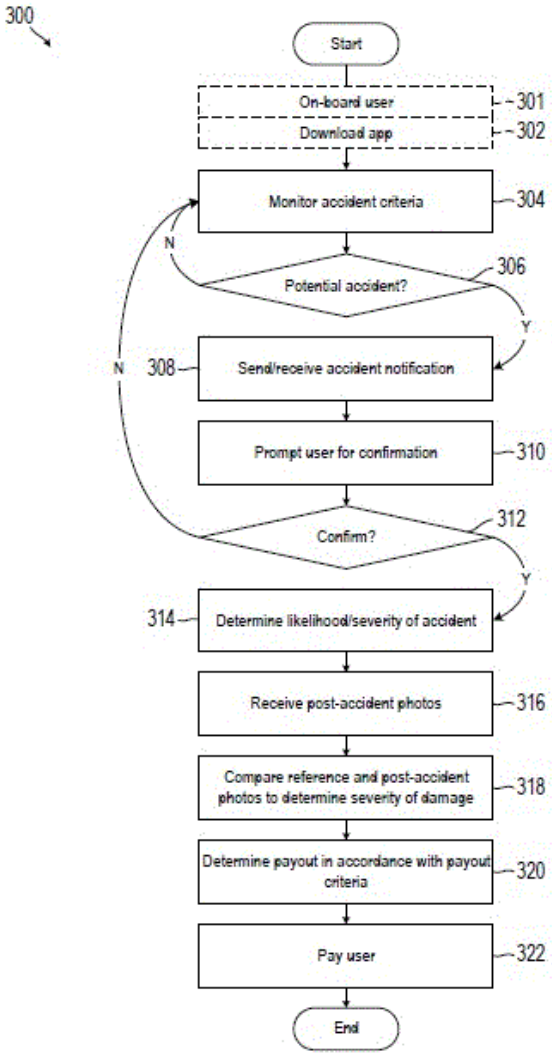

(I)

21: 2024/09243. 22: 2024/12/03. 43: 2025/06/11
51: G06F; G06Q
71: WEPAYCLAIMS (PTY) LTD.
72: DE SOUZA, Anton, WILKEN, Johannes Willem
33: ZA 31: 2023/11178 32: 2023-12-05

**54: A Computer-Implemented Method of Assessing an Accident of a Motor Vehicle, and an Associated System**

00: -

A no-fault method of assessing an accident of a motor vehicle includes receiving an accident notification from a mobile device, the mobile device being in a vehicle when the accident. This notification includes collision information and telemetry information about the vehicle. The method includes receiving a series of post-accident images of an exterior of the vehicle. The method includes comparing (1) the collision information to predefined collision metrics, to determine a probability that the accident occurred, (2) comparing the telemetry information to severity criteria to determine a severity, and (3) comparing the post-accident images with a series of reference images, to determine damage. The method then includes determining based on at least (1) probability of the vehicle accident having occurred, (2) the determined severity of the vehicle accident, and (3) the determined damage to the vehicle, based on pre-defined payout criteria, a payout to the user or a beneficiary.



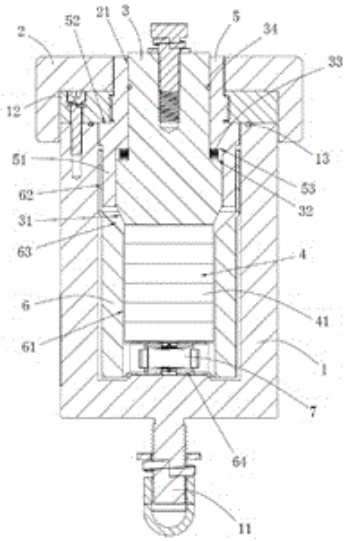

21: 2024/09253. 22: 2024/12/03. 43: 2025/06/11
51: H02H, H05K
71: CHENGDU PEDARO TECHNOLOGY CO., LTD.
72: ZENG, ZICHENG, XU, SIRAN, WANG, JUN, LIU, XUELIN
33: CN 31: 202411571063.2 32: 2024-11-06

**54: ALTERNATING CURRENT POWER SURGE PROTECTIVE DEVICE**

00: -

The present application discloses an alternating current power surge protective device, and relates to the technical field of power surge protection. The alternating current power surge protective device includes a cylinder body, a cover body, an electrode column, and a pressure sensitive group, wherein the electrode column is coated with a first insulator, a second insulator is disposed in the cylinder body, a locating slot for holding the pressure sensitive group

is disposed in the second insulator, the pressure sensitive group includes a plurality of pressure sensitive resistors spliced sequentially, all the pressure sensitive resistors are coaxially placed in the locating slot, aloxite surfaces are disposed on surfaces of the pressure sensitive resistors, sand pits are disposed in the aloxite surfaces, aluminum films are disposed between every two adjacent pressure sensitive resistors, and a pressing structure used for enabling the electrode column to press against the pressure sensitive group is disposed on the cylinder body. A gas discharge tube respectively connected to the pressure sensitive group and the cylinder body is further mounted in the cylinder body, and a grounding column is disposed on a bottom end of the cylinder body. The present application ensures that all the pressure sensitive resistors can uniformly share a voltage and a current, thereby prolonging the service life of the alternating current power surge protective device.

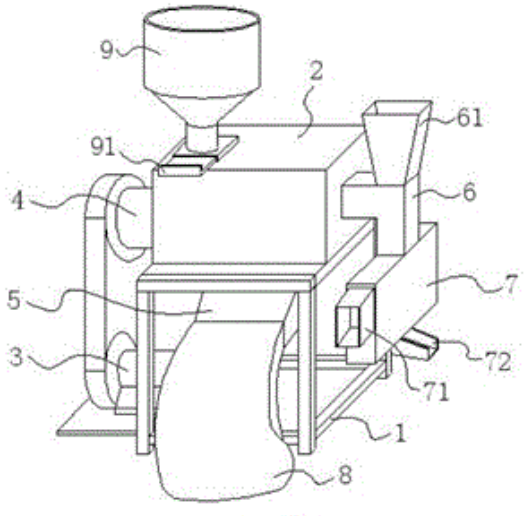



21: 2024/09255. 22: 2024/12/03. 43: 2025/06/23
51: A23N
71: KUNMING METALLURGY COLLEGE
72: YIN, BINGJING, ZHANG, SONGYUAN, ZHAO, FABIN, JI, HAOBO, MAO, YING
33: CN 31: 2024104576343 32: 2024-04-16

**54: GLEDITSIA SINENSIS SEED PEEL STRIPPING EQUIPMENT**

00: -

The present invention discloses a gleditsia sinensis seed peel stripping equipment, which includes a stripping box, a motor and a bracket. A feed hopper is installed on the top of the stripping box, and the bottom is in an open shape and connected to a discharge hopper. A horizontally arranged filter plate is provided in the stripping box. The chamber of the stripping box is divided into a striking chamber above and a collecting chamber below by the filter plate. On the right side of the striking chamber is provided a shell discharge pipe discharged from the shell. A rotating shaft is provided through the striking chamber. One end of the rotating shaft is driven and connected by a motor, and the other end is rotatably connected to the stripping box. Hammer rods are provided on the outer wall of the rotating shaft. Teeth that are staggered and cooperate with the hammer rods are provided on the inner wall of the collecting chamber. By using the rotating shaft and hammer rods, gleditsia sinensis can be hammered and crushed to realize rapid stripping of gleditsia sinensis seeds, greatly improving the stripping efficiency of gleditsia sinensis seeds. Combined with the winnowing box, air separation and filtration can be performed on the peel slag and secondary air separation and impurity removal can be performed on gleditsia sinensis seeds, which can not only prevent gleditsia sinensis seeds from being discharged with the peel, but also fully reduce the impurity content such as trivial shell chips of gleditsia sinensis seeds, and effectively improve the production operation efficiency of gleditsia sinensis seed stripping.




21: 2024/09281. 22: 2024/11/28. 43: 2025/06/12
51: A61K; A61P; C07D; C07F

71: Omeros Corporation
72: CUTSHALL, Neil S., GAGE, Jennifer Lynn, GOLDSTEIN, Sara Rebecca, KESHIPEDDY, Santosh Kumar, KWON, Do Yeon, LEMUS, Robert Huerta, LITTLE, Thomas L., METZ, Markus, NOLLERT VON SPECHT, Peter Kurt, PRICE, Loren Michael, TSOUNG, Jennifer
33: US 31: 62/943,622 32: 2019-12-04
**54: MASP-2 INHIBITORS AND METHODS OF USE**
00: -
The present disclosure provides, inter alia, compounds with MASP-2 inhibitory activity, compositions of such compounds, and methods of making and using such compounds.

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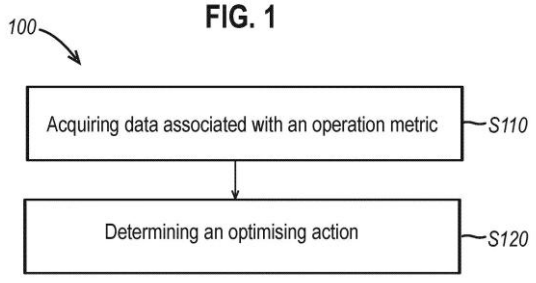
21: 2024/09303. 22: 2024/12/04. 43: 2025/06/12
51: G06Q
71: Blue Prism Limited
72: HADZIC, Tarik
33: EP(GB) 31: 22177398.9 32: 2022-06-06
**54: METHODS AND SYSTEMS FOR MANAGING ROBOTIC PROCESS AUTOMATION**
00: -
There is provided a method (100) for managing a Robotics Process Automation (RPA) robot. The method comprises: acquiring (S110) data associated with an operation metric of the RPA robot during execution of an automation workflow, and determining (S120) an optimising action based on a policy and the acquired data associated with the operation metric of the RPA robot.

FIG. 1

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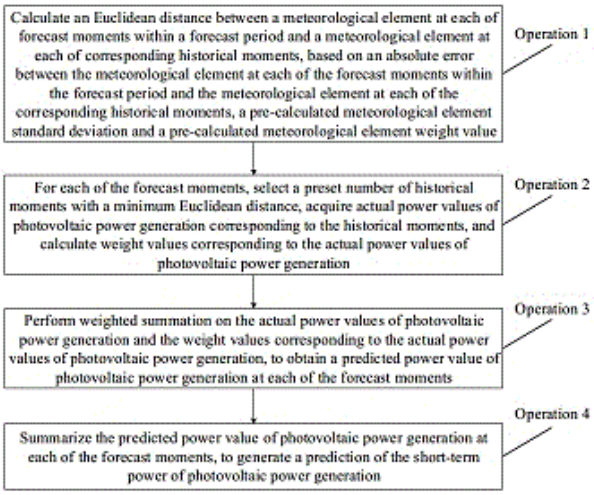
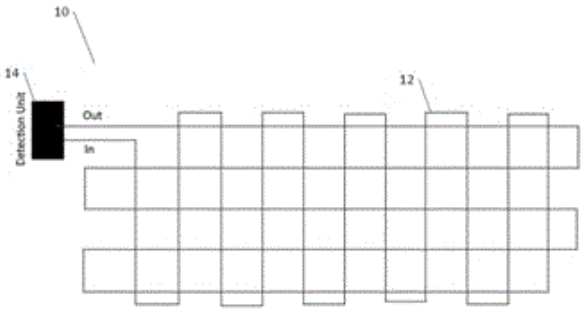
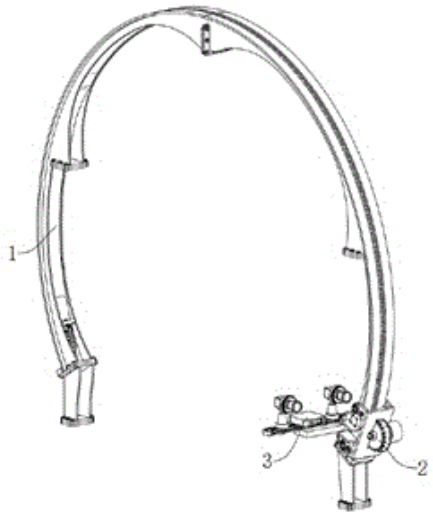
21: 2024/09350. 22: 2024/12/05. 43: 2025/06/25
51: G06Q; H02J
71: CHINA ELECTRIC POWER RESEARCH INSTITUTE, STATE GRID CORPORATION OF CHINA, STATE GRID XINJIANG ELECTRIC POWER CO., LTD, ELECTRIC POWER RESEARCH INSTITUTE
72: LI, DENGXUAN, ZHOU, HAI, CHENG, XU, QIN, FANG, MA, WENWEN, HU, SIYU, YAO, HONGCHUN, CHEN, WEIDONG, WU, JI, DING, HUANG, CUI, FANG, YANG, FAN, JU, RONGRONG, LI, YINQING
33: CN 31: 202210523546.X 32: 2022-05-13
**54: PHOTOVOLTAIC POWER GENERATION SHORT-TERM POWER PREDICTION METHOD AND SYSTEM**
00: -
The present invention provides a photovoltaic power generation short-term power prediction method and system. The method comprises: calculating a Euclidean distance between meteorological elements on the basis of absolute errors between the meteorological elements at forecasting moments within a forecasting period and corresponding historical moments, a pre-calculated meteorological element standard deviation, and a pre-calculated meteorological element weight value; for the forecasting moments, selecting a preset number of historical moments having a minimum Euclidean distance, obtaining photovoltaic power generation actual power values corresponding to the historical moments, and calculating weight values corresponding to the photovoltaic power generation actual power values; performing weighted summation on the photovoltaic power generation actual power values and the weight values corresponding to the photovoltaic power generation actual power values to obtain photovoltaic power generation predicted power values of the forecasting moments; and summarizing the photovoltaic power generation predicted power values of the forecasting moments to generate a photovoltaic power generation short-term power prediction. The present invention is less dependent on actually measured meteorological data, and is high in adaptability, simple and applicable, reliable in calculation, and easy to implement and deploy on an engineering site.



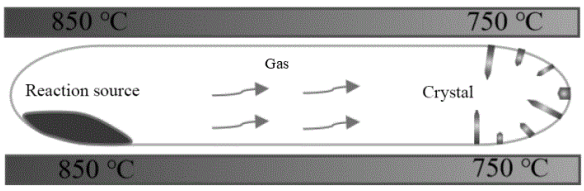

21: 2024/09425. 22: 2024/12/09. 43: 2025/06/26
51: G08B
71: G-MATRIX SYSTEMS (PTY) LTD
72: ALBERTS, CHRISTIAAN ABRAHAM, VAN WYNGAARDT, QUINTIN
33: ZA 31: 2023/08608 32: 2023-09-08
**54: A DEVICE FOR PROTECTING AN ASSET**
00: -
This invention relates to a device designed to protect assets. The device features a mesh including a single continuous transmitter with two ends, a transmitter module at one end, and a receiver module at the other. It includes a long-range communication module and a processor that connects to the transmitter, receiver, and communication modules. The processor monitors the mesh's continuity by sending and receiving signals through the single continuous transmitter. If a signal sent from the transmitter is not received by the receiver, the processor triggers an alarm via the long-range communication module.




21: 2024/09426. 22: 2024/12/09. 43: 2025/06/27
51: G06T, G06V, E21D
71: CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING BUREAU GROUP CO., LTD., THE 2ND ENGINEERING CO., LTD. OF CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING BUREAU GROUP
72: WU, YAFEI, LI, JUNLIN, ZHOU, GUANNAN, ZHANG, SHENGLONG, FANG, WEITAI, AN, WEIHUI, CAI, HUIFANG, LIU, YAPING
33: CN 31: 202411570688.7 32: 2024-11-05
**54: QUALITY INSPECTION DEVICE AND METHOD FOR SEGMENT ERECTION DURING SHIELD TUNNEL CONSTRUCTION BASED ON BINOCULAR VISION**
00: -
The present application relates to the field of quality inspection technology for shield tunnel segment erection, and particularly to a device and method for quality inspection of tunnel segment erection during shield tunnel construction based on binocular vision. The device for quality inspection of tunnel segment erection during shield tunnel construction based on binocular vision includes a primary structural assembly, an automatic running assembly, and a binocular vision imaging assembly. The automatic running assembly is installed on the primary structural assembly, and a binocular vision imaging assembly is further installed on the automatic running assembly. The device and method provided in the present application can intelligently detect the quality of segment erection during shield tunnel construction in real-time, thereby improving the efficiency and accuracy of quality inspection of segment erection.

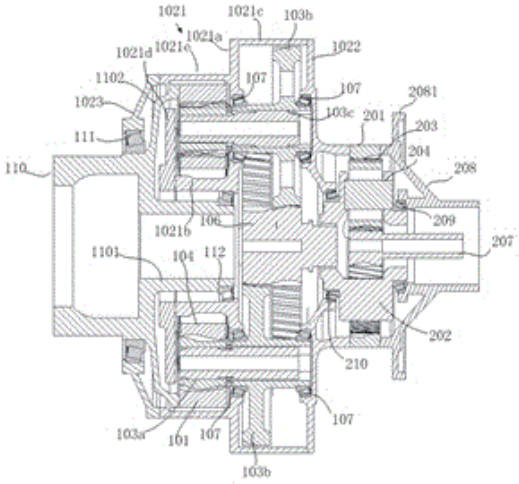


21: 2024/09430. 22: 2024/12/09. 43: 2025/07/22
51: H01F
71: Huainan Normal University
72: Zhang Ying, Quan Guiying
33: CN 31: 202411285875.0 32: 2024-09-13
**54: TWO-DIMENSIONAL FERROMAGNETIC SINGLE CRYSTAL CR1-XVXI3 AND PREPARATION METHOD AND APPLICATION THEREOF**
00: -
The present invention relates to the technical field of two-dimensional materials and preparation thereof, and provides a two-dimensional ferromagnetic single crystal Cr1-xVxI3 and a preparation method and an application thereof. The two-dimensional ferromagnetic Cr1-xVxI3 single crystal takes CrI3 is taken as a matrix, and V is introduced by doping, the crystal is obtained by partially replacing a Cr site in CrI3, and a chemical formula is Cr1-xVxI3, where x is a molar percentage of V doping in the Cr site in CrI3, and a value range of X is 10%-90%. A preparation method of the present invention is simple and easy to operate, and is easy to popularize and use in large-scale production. A two-dimensional magnetic Cr1-xVxI3 single crystal obtained by the preparation method has characteristics of large size, high yield and high quality.




21: 2024/09443. 22: 2024/12/09. 43: 2025/07/07
51: A61K; A61P
71: CHENGDU SHIBEIKANG BIOMEDICAL TECHNOLOGY CO., LTD.
72: ZHANG, Hai, NIE, Yu, MOU, Xia, SU, Yongwen, YI, Zeqin
33: CN 31: 202210688248.6 32: 2022-06-17
**54: PHARMACEUTICAL COMPOSITION FOR TREATING AND RESISTING BLOOD COAGULATION AND USE THEREOF**
00: -
The present invention relates to a composition for treating and resisting blood coagulation and use thereof, and particularly relates to a pharmaceutical composition containing (7aS, 2'S)-2-oxo-clopidogrel and use thereof. The present invention provides a medicinal specification of a solid preparation which, after oral administration before/after meals for use in healthy adults, can be similar to clopidogrel bisulfate tablets that are 12.5 times larger in specification in terms of $C_{max}$, $AUC_{[0-t]}$, and $AUC_{[0-\infty]}$ of a metabolically produced compound A and an active metabolite H4, thereby ensuring the effectiveness and safety of usage of medication.

21: 2024/09468. 22: 2024/12/09. 43: 2025/06/27
51: F16H
71: BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD.
72: AI, XIAOLAN, YANG, YULIANG, GAO, SI, XU, HONGLEI, SONG, XINLIANG
33: CN 31: 202210583186.2 32: 2022-05-26
**54: GEAR SHIFTING DEVICE, TRANSMISSION MECHANISM, AND WIND TURBINE GENERATOR SYSTEM**
00: -
A gear shifting device, comprising a first planetary gear train (100). The first planetary gear train comprises a first ring gear (101), a first planet carrier (102), a first planet gear (103), a sun idler (104), and a planet idler (105); the planet idler and the first planet gear are both installed on the first planet carrier; the first planet gear comprises a pinion (103a) and a bull gear (103b) coaxially connected to the pinion; the planet idler and the pinion are both meshed with the inside of the first ring gear and are both meshed with the outside of the sun idler; the pinion can float in the radial direction relative to the first planet carrier; an input shaft (110) is further provided; one end of the input shaft is connected to the first ring gear. The gear shifting device has a high torque load density, and can achieve a small volume, a large transmission ratio, and a high torque load capacity.

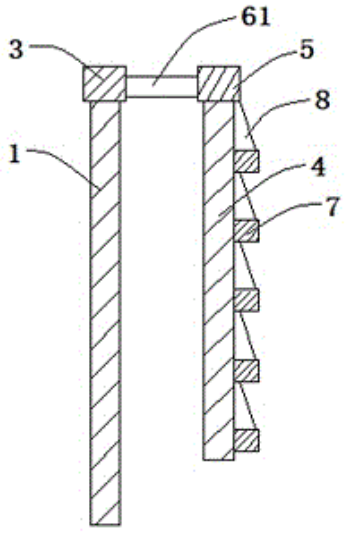



21: 2024/09469. 22: 2024/12/09. 43: 2025/06/27
51: E02D
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: YANG, JIAYAN
33: CN 31: 2024106346581 32: 2024-05-22

**54: SUPPORTING STRUCTURE FOR FOUNDATION PIT OF GARBAGE STORAGE PIT AND CONSTRUCTION METHOD THEREOF**

00: -

The present invention discloses a supporting structure for a foundation pit of a garbage storage pit comprising: continuous secant piles arranged around a periphery of foundation pit and provided with first crown beams; multiple reinforced concrete cast-in-place piles arranged on inner sides of continuous secant piles, arranged in a circumferential direction of the foundation pit, and provided with second crown beams; connecting beams arranged between first crown beams and second crown beams; multiple supporting beams arranged in a height direction of foundation pit, and arranged around one sides of multiple reinforced concrete cast-in-place piles; and multiple groups of retaining plates in one-to-one correspondence with multiple supporting beams, each group of retaining plates comprising multiple retaining plates arranged in a length direction of supporting beam, and each retaining plate being arranged between two adjacent reinforced concrete cast-in-place piles. The supporting structure has high strength and good supporting effect.

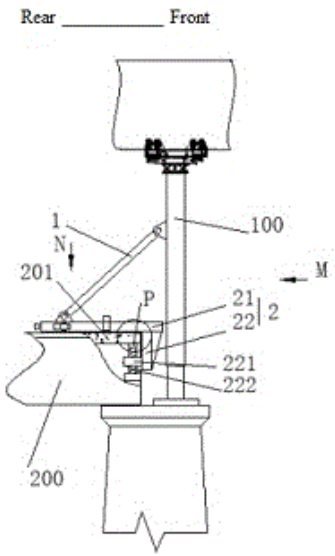



21: 2024/09470. 22: 2024/12/09. 43: 2025/06/27
51: E01D
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: LI, JINGJUN
33: CN 31: 2024106761724 32: 2024-05-29

**54: DIAGONAL BRACING STRUCTURE FOR FRONT SUPPORTING LEG OF BRIDGE ERECTING MACHINE AND CONSTRUCTION METHOD THEREOF**

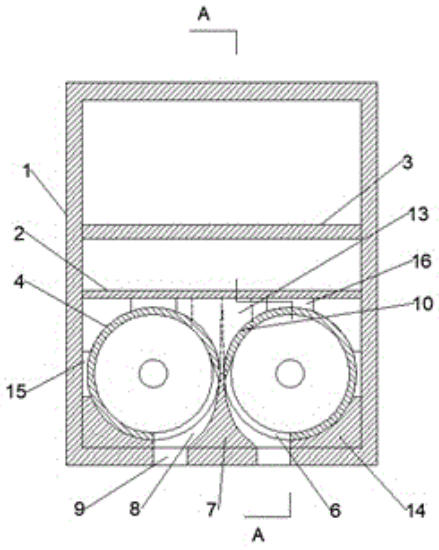
00: -

The present invention discloses a diagonal bracing structure for a front supporting leg of a bridge erecting machine, which is located between front supporting leg of bridge erecting machine and an erected box girder for fixing and supporting front supporting leg of bridge erecting machine on a girder head of erected box girder, and comprises: a diagonal bracing rod hinged with front supporting leg; a fixing mechanism arranged at diagonal bracing rod, comprising: a first fixing member arranged on girder head and hinged with diagonal bracing rod; a second fixing member arranged on first fixing member and abutted against girder head, comprising: a bump located below erected box girder; a first screw connected with bump through a self-locking thread, penetrating through bump from bottom to top and being perpendicular to top wall. The present invention improves construction efficiency of bridge erecting machine and reliability of a diagonal bracing mechanism.



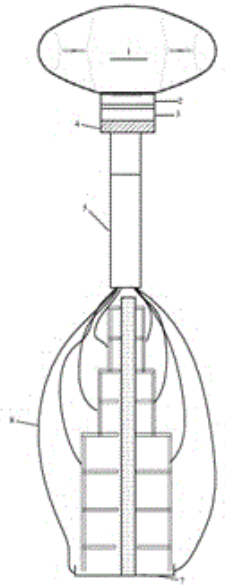

21: 2024/09471. 22: 2024/12/09. 43: 2025/06/27
51: E02D
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: SU, YANSONG
33: CN 31: 2024105870739 32: 2024-05-13
**54: ENERGY DISSIPATION SELF-ANCHORED CAISSON**
00: -

The present invention discloses an energy dissipation self-anchored caisson, comprising a caisson body. A first baffle and a second baffle are arranged between two side panels of the caisson body to divide the caisson body into a first energy dissipation compartment, a second energy dissipation compartment and a sand filling compartment from front to back; two vortex energy dissipation anchoring structures are arranged in first energy dissipation compartment along a central line of caisson body, and comprises a vortex barrel and a vortex bucket coaxially spliced at vortex barrel. A middle upper part of vortex barrel is provided with a water inlet, and a middle lower part of the vortex bucket is provided with a water outlet. The present invention can well dissipate energy of waves rushing to caisson, and skillfully generate a pressure on caisson by means of a wave flow, thus enhancing an anchoring effect of caisson.

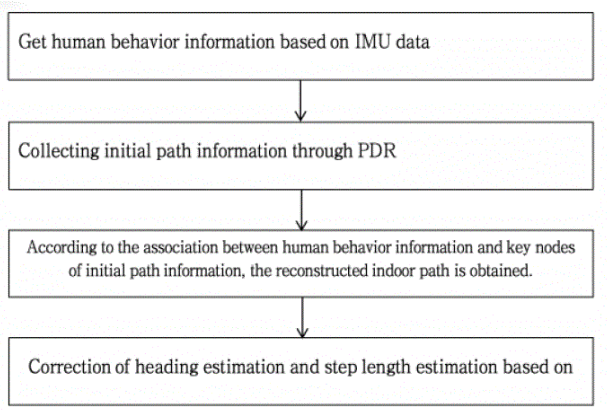



21: 2024/09517. 22: 2024/12/10. 43: 2025/06/30
51: B66C
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: LI, JIA
33: CN 31: 2024107441545 32: 2024-06-11
**54: LIFTING DEVICE AND METHOD FOR HOISTING A RADAR ANTENNA**
00: -

The present invention discloses a lifting device for hoisting a radar antenna, comprising: an unmanned aerial vehicle body provided with a mounting base; a hoisting arm mounted on mounting base and telescopic in a vertical direction; a hoisting fixture comprising multiple fixing supports and fixing brackets arranged below multiple fixing supports sequentially arranged in the vertical direction and provided with a central cavity channel for antenna to pass through, an outer side of each fixing support being provided with at least two axisymmetric lifting lugs, comprising two bracket sections, and each bracket section being provided with at least one lifting lug; and multiple ropes, one ends of multiple ropes being fixed on hoisting arm, and the other ends of multiple ropes being respectively connected to one of lifting lugs. The present invention realizes fast and efficient hoisting of radar antenna, and improves mounting and maintenance efficiency.



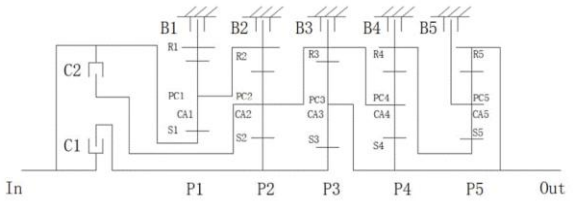
21: 2024/09528. 22: 2024/12/11. 43: 2025/06/26
51: H04W
71: Peking University
72: Zhang Guangyuan, Fan Yonglei
33: CN 31: 2024115286452 32: 2024-10-30
**54: A METHOD, DEVICE, SYSTEM, AND STORAGE MEDIUM FOR INDOOR POSITIONING ERROR CALIBRATION**
00: -
The invention discloses a method, device, system, and storage medium for indoor positioning error calibration, including the following steps: Step S1: Obtain human behavior information based on IMU (Inertial Measurement Unit) data; Step S2: Collect initial path information through PDR (Pedestrian Dead Reckoning); Step S3: Obtain a reconstructed indoor path based on the correlation between human behavior information data and key nodes of the initial path information; Step S4: Perform correction of heading estimation and step length estimation based on the reconstructed indoor path. The technical solution of the present invention improves the accuracy of PDR positioning.



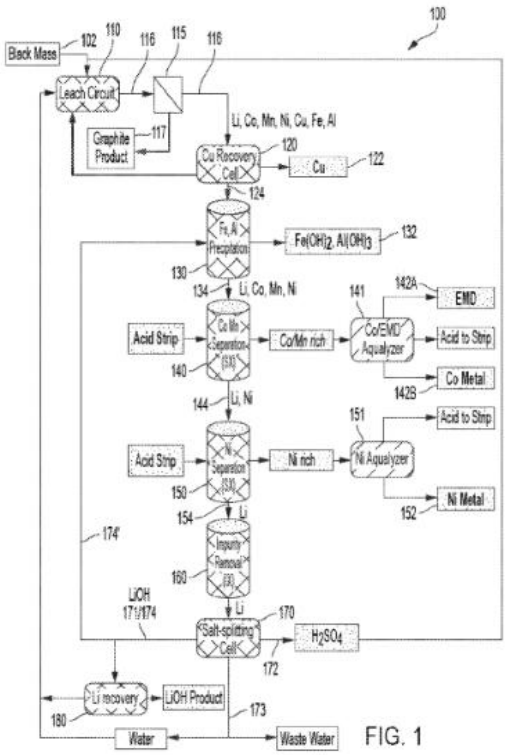

21: 2024/09552. 22: 2024/12/11. 43: 2025/06/27
51: A61K; A61P
71: INITIATOR PHARMA A/S
72: SIMONSEN, Ulf, COMERMA-STEFFENSEN, Simon
33: EP 31: 22183862.6 32: 2022-07-08
**54: COMPOUND FOR TREATMENT OF FEMALE SEXUAL DYSFUNCTION**
00: -
The disclosure relates treatment of female sexual dysfunction with a chromen-2-one compound.

21: 2024/09570. 22: 2024/12/11. 43: 2025/07/11
51: F16H
71: JIANGSU ADVANCED CONSTRUCTION MACHINERY INNOVATION CENTER LTD.
72: Feng LIU, Haoyue ZHU, Weili WANG
33: CN 31: 202310769435.1 32: 2023-06-27
**54: HIGH-POWER PLANETARY HYDRAULIC TRANSMISSION DRIVE MECHANISM**
00: -
A gear train for a high-power planetary hydrodynamic transmission comprises a first planetary gear set P1, a second planetary gear set P2, a third planetary gear set P3, a fourth planetary gear set P4 and a fifth planetary gear set P5 which are arranged sequentially and parallely. Each planetary gear set comprises a sun gear, a planetary carrier, a planetary gear and a gear ring. In each planetary gear set, the planetary gear externally meshes with the sun gear and internally meshes with the gear ring. The five sun gears are coaxial. The planetary carrier of the first planetary gear set P1 is fixedly connected to the gear ring of the second planetary gear set P2, the planetary carrier of the second planetary gear set P2 is fixedly connected to the gear ring of the third planetary gear

set P3, the gear ring of the third planetary gear set P3 is fixedly connected to the planetary carrier of the fourth planetary gear set P4, and the gear ring of the fourth planetary gear set P4 is fixedly connected to the sun gear of the fifth planetary gear set P5.

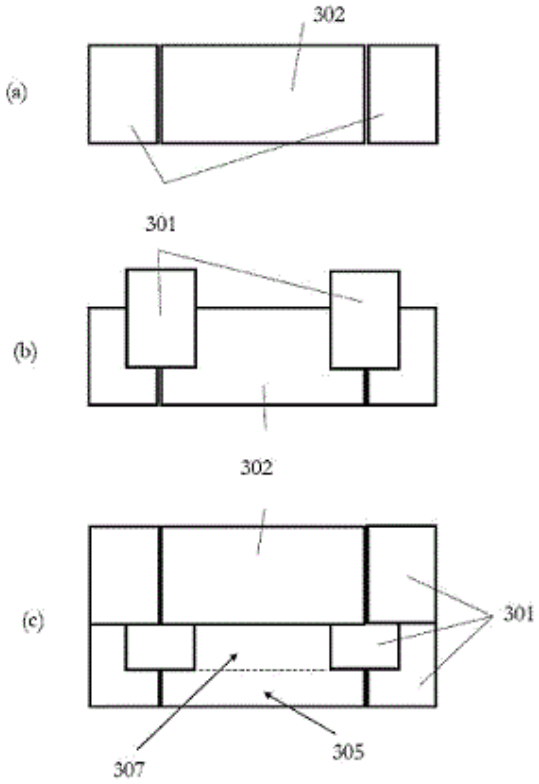



21: 2024/09573. 22: 2024/12/11. 43: 2025/07/25
51: C22B; H01M
71: AQUA METALS INC.
72: DOUGHERTY, Brian, James, KENNEY, James, STRAUSS, Mark
33: US 31: 63/321,897 32: 2022-03-21
**54: IMPROVED SYSTEMS AND METHODS FOR METAL RECOVERY FROM LITHIUM ION BATTERIES**
00: -
Black mass from disused lithium batteries is leached for recovery of various metals in a process that includes precipitation, solvent exchange, ion exchange, and salt splitting to create multiple product streams for recovery of pure value products. Most typically, the process is a closed-loop process and allows for production of metallic cobalt and nickel, EMD, and a high purity lithium hydroxide or carbonate product with minimal generation of waste streams.



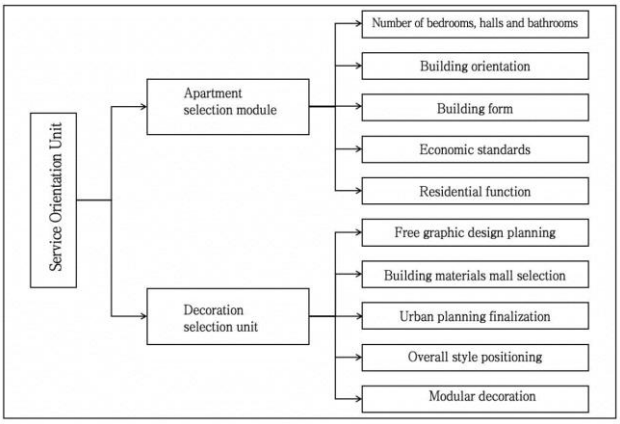

21: 2024/09599. 22: 2024/12/12. 43: 2025/06/27
51: E04D
71: BROATCH, Peter
72: BROATCH, Peter
33: GB 31: 2209698.6 32: 2022-07-01
**54: PHOTOVOLTAIC ROOF TILES**
00: -
Photovoltaic roof tiles are known to replace conventional roof tiles in a single-lap arrangement. To prevent rain water from passing between adjacent tiles and leaking into the building below, such photovoltaic roof tiles are provided with interlocking edges; however, these can be expensive to manufacture and time-consuming to install. A more cost-effective option of tiling would be to use a double-lap tile arrangement. Because plain tiles have no interlocking edges, water can leak through the joins between tiles. This requires a third tile to be placed below the join to catch any water passing through. However, with double-lap tiles, a significant part of each tile remains covered after installation, such that a relatively small surface area is in view of the sun. This not an efficient use of expensive photovoltaic materials. The present invention provides a photovoltaic roof tile 302 for use with double-lap tiles 301, the photovoltaic roof tile

302 having a tile width equal to an integral multiple of the double-lap tile width. In this way, such photovoltaic roof tiles 302 may be arranged with conventional double-lap roof tiles 301 to increase the proportion thereof available to sunlight 305, 307, without risking ingress of water.




21: 2024/09602. 22: 2024/12/12. 43: 2025/06/27
51: B27K
71: SYMONS, Michael, Windsor
72: SYMONS, Michael, Windsor
33: ZA 31: 2022/06139 32: 2022-06-02
**54: MINERALISATION OF WOOD PRODUCTS AND MINERALISED WOOD PRODUCTS**
00: -
The invention provides a method to produce mineralised wood products, which products are stable, hardened and resistant to microbial or insect attack. The method includes the steps of preparing an impregnation mixture by mixing finely ground non hydrated CaO and preferably salt, applying a vacuum to wood products in a chamber, introducing the impregnation mixture into the vacuum chamber in surface contact with the wood products, and applying pressure to the chamber.

21: 2024/09628. 22: 2024/12/13. 43: 2025/07/11
51: F16M
71: Xinyu University
72: Xu li, Teng wenhao, Xu minghao, Wang chengyuan, Cui shengchao, Cai yunfang, Guo qiulan, Wang juan, Hong ziqi, Wang zhongyi, Chen yue
33: CN 31: 2024115133601 32: 2024-10-28
**54: A BIM-BASED LOW-ENERGY CONSUMPTION PREFABRICATED MODULAR RESIDENTIAL INTEGRATED INTELLIGENT BUILDING CONSTRUCTION MANAGEMENT SYSTEM**
00: -
This invention mainly relates to the field of prefabricated building construction. It discloses an intelligent building management system for zero-energy prefabricated residential buildings based on BIM (Building Information Modeling), which includes a client-side and a construction-side. The system is characterized by the user interacting with the client-side interface to perform service positioning, related costs, energy monitoring, and after-sales service modules, based on the selection of the user's relevant home layout. It allows the user to select decoration styles and building materials, while also enabling real-time energy monitoring and management, as well as related after-sales services. The construction-side includes an information data collection unit, structural design unit, BIM building model processing unit, data analysis unit, virtual simulation unit, automatic control unit, and human-machine interaction unit. The beneficial effects of the invention include providing users with more personalized services, improving the efficiency of integrated construction, greatly saving both construction time and costs for users, while the intelligent building management system offers more efficient construction plans. This ensures residential comfort and accurate energy consumption monitoring, thereby guaranteeing the economy and practicality of the residence.




21: 2024/09641. 22: 2024/12/13. 43: 2025/06/30
51: H02J
71: XI'AN HIGH VOLTAGE APPARATUS RESEARCH INSTITUTE CO., LTD.
72: FAN, Guangwei, WANG, Peiren, DU, Junchen, QIAO, Jishan
33: CN 31: 202410032740.7 32: 2024-01-09
**54: HIGH-VOLTAGE HARMONIC CURRENT SOURCE DEVICE CONVERSION MODULE AND CONVERTER COMBINATION DEVICE**
00: -
This disclosure relates to the field of large-capacity tests for electrical apparatuses, in particular to a high-voltage harmonic current source device conversion module and a converter combination device, including a soft start/main start circuit connected to a module power supply, where the soft start/main start circuit, a rectifier module, a direct-current support circuit, an inverter module, an output filter circuit and a protective fuse are connected in sequence; and a high-voltage test loop is connected to an output end of the protective fuse. The high-voltage harmonic current source device conversion modules are achieved by low-voltage elements, and the requirement of an on-load tap-changer harmonic current switching test on a high-voltage harmonic current source can be met by connecting the high-voltage harmonic current source device conversion modules in parallel, and the parallel combination of the multiple modules is facilitated to increase the capacity requirement for an entire unit.

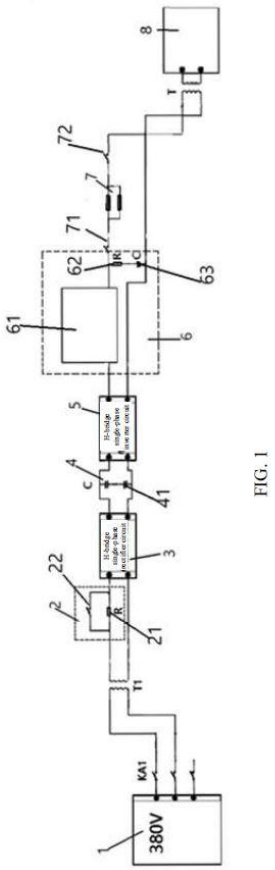
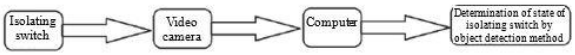


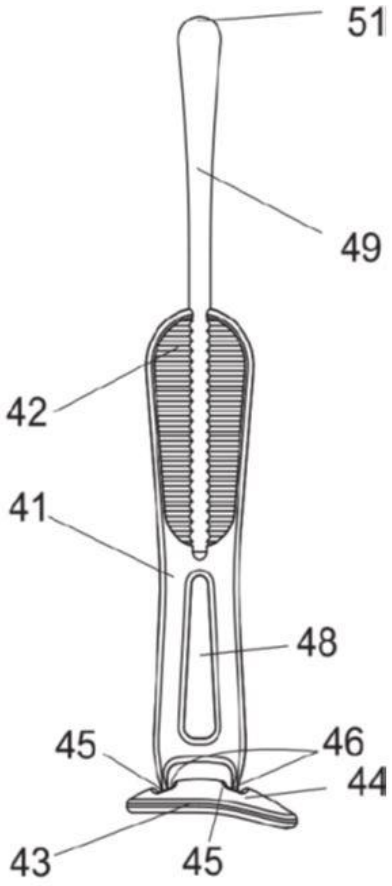
FIG. 1

21: 2024/09642. 22: 2024/12/13. 43: 2025/06/30
51: G06N
71: XI'AN HIGH VOLTAGE APPARATUS RESEARCH INSTITUTE CO., LTD.
72: ZHANG, Baoqiang, YAN, Duifeng, YANG, Ning, JU, Jindong, SHI, Yuqiang
33: CN 31: 202410146289.1 32: 2024-02-01
**54: INTELLIGENT PATROL INSPECTION METHOD AND SYSTEM FOR ISOLATING SWITCH, AND DEVICE**
00: -
An intelligent patrol inspection method and system for an isolating switch, and a device. The method includes: collecting a sample dataset of the isolating switch, labeling different state features of the isolating switch, and labeling markers on the isolating switch to obtain a training dataset; training the training dataset with a Yolo algorithm to obtain an object detection model; detecting an image captured by a video camera based on the object detection model, including: first labeling an isolating-switch pixel area in the image captured by the video camera, then labeling markers in the isolating-switch pixel area, extracting long sides of the markers, and

calculating an included angle between the long sides of the markers; and comparing the included angle between the long sides of the markers with a preset threshold to determine a closing/opening state of the isolating switch.

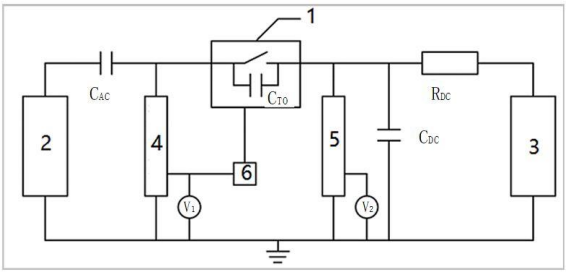



21: 2024/09643. 22: 2024/12/13. 43: 2025/07/07
51: A61B
71: INNOVATIVE MEDICAL TECHNOLOGY (PTY) LTD
72: PARKER, Cyril Norman, PARKER, Elisabeth Regina, VORSTER, Jared Mark, WISEMAN, David Christopher
33: ZA 31: 2017/01743 32: 2017-03-10
**54: CIRCUMCISION DEVICE**
00: -
There is disclosed a glans penis protector. The glans penis protector includes a handle having a proximal operating end region and a transverse glans penis engaging cover at its distal end. An attachment of the handle to the glans penis engaging cover is capable of being parted so that the handle can be separated from the glans penis engaging cover during a circumcision procedure. The attachment of the handle to a proximal surface of the glans penis engaging cover is located in spaced recesses in the proximal surface of the glans penis engaging cover by way of a pair of spaced necks immediately adjacent the proximal surface of the glans penis engaging cover.



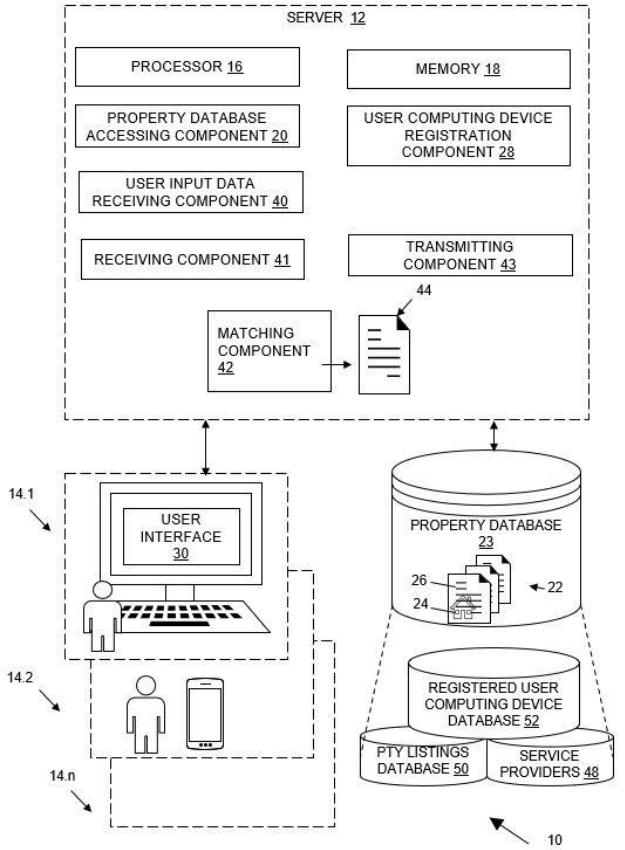

21: 2024/09644. 22: 2024/12/13. 43: 2025/06/30
51: H01H; H02H
71: XI'AN HIGH VOLTAGE APPARATUS RESEARCH INSTITUTE CO., LTD.
72: SU, Chunqiang, FAN, Kesong, LI, Bo
33: CN 31: 2024114320189 32: 2024-10-14
**54: DYNAMIC VOLTAGE TEST CIRCUIT AND METHOD FOR HIGH-VOLTAGE ALTERNATING-CURRENT CIRCUIT-BREAKER FOR FILTER BANKS**
00: -
Disclosed in the present disclosure are a dynamic voltage test circuit and method for a high-voltage AC circuit-breaker for the filter banks, include: a high-voltage AC circuit-breaker for the filter banks, a power-frequency voltage test system, a DC voltage test system, a DC blocking capacitor, a protective resistor, and measurement devices; one terminal of the high-voltage AC circuit-breaker is connected to one terminal of the DC blocking capacitor, the other terminal of the DC blocking capacitor is connected to a high-voltage output terminal of the power-frequency voltage test system; the other terminal of the high-voltage AC circuit-breaker is connected to

one terminals of the protective resistor and the protective capacitor; the other terminal of the protective resistor is connected to a high-voltage output terminal of the DC voltage test system; and two terminals of the measurement devices are connected to two terminals of the high-voltage AC circuit-breaker.




21: 2024/09645. 22: 2024/12/13. 43: 2025/07/07
51: H04L
71: TERBLANCHE, Alissa Agneta
72: TERBLANCHE, Alissa Agneta
33: ZA 31: 2023/11496 32: 2023-12-14
**54: PROPERTY DATA PROCESSING**
00: -

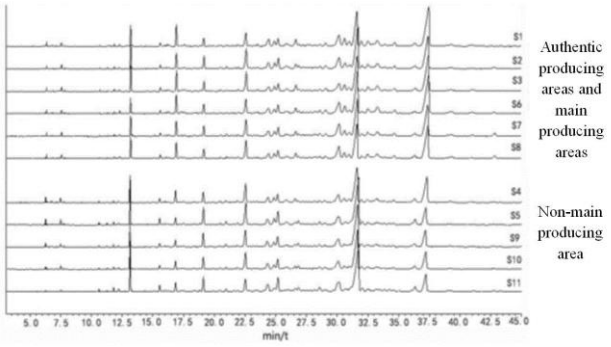
There is provided systems and methods method for processing property data. A server is in data communication with user computing devices. The method includes accessing a property database that includes stored property data including at least image data and property parameter data relating to each of the plurality of properties. A registration process in respect of a first user computing device is performed. The first user computing device is prompted to capture initial user input data, the initial user input data including two or more values of user preference as to the displayed image data and property parameter data relating to each of the plurality of properties in the subset. The server performs a matching process by accessing at least the initial user input data and matching it to the stored property data, facilitating display of a customized list of properties that are customized for the first user computing device.




21: 2024/09695. 22: 2024/12/17. 43: 2025/07/21
51: A61K
71: Institute of Chinese Materia Medica China Academy of Chinese Medical Sciences, Linyi Medical Care and Health Industry Research Institute, Linyi Hospital of Traditional Chinese Medicine
72: LI Raorao, ZHANG Zhijie, YAO Junna, ZHANG Peihui, YAO Li, GONG Suqin, ZHAI Deyin, DU Xiyang
33: CN 31: 2024116817336 32: 2024-11-22
**54: METHOD OF DISTINGUISHING THE AUTHENTIC MEDICINAL MATERIAL TAN CYPERI RHIZOMA FROM OTHER MAIN ORIGINS AND NON-MAIN ORIGINS CYPERI RHIZOMA**
00: -

The invention is disclosed a method of distinguishing the authentic medicinal material Tan CYPERI RHIZOMA from other main origin and non-main origin CYPERI RHIZOMA, the method belongs to the field of Chinese medicine testing. According to the present invention, 111 kinds of CYPERI RHIZOMA volatile oil of 11 batches from different origin can be detected, of which 24 kinds are common components, among which the relative

content of alpha-Vanillone is the variable, 11 batches of CYPERI RHIZOMA can be divided into 3 classes. Among them, Shandong Tancheng (S1), Guangdong (S2, S3), Zhejiang (S6), Hunan (S7) and Henan (S8) are grouped into a class, Hainan (S4, S5) and Guangxi (S9, S10) are grouped into a class, and Anhui S11 is grouped into a class. The invention provides a method with simple operation and high detection efficiency for CYPERI RHIZOMA detection in different areas, and can accurately distinguish Tan CYPERI RHIZOMA from other main and non-main areas of CYPERI RHIZOMA. It laid a theoretical technique for the detection and effective application of Tan CYPERI RHIZOMA.

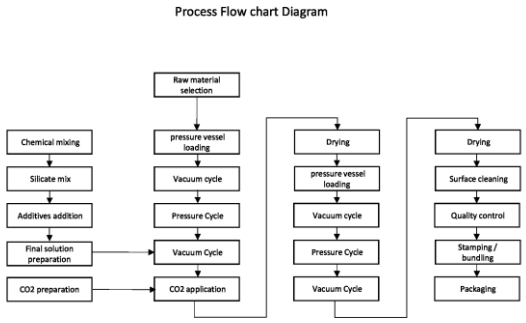



21: 2024/09735. 22: 2024/12/17. 43: 2025/06/30
51: B27K
71: T2EARTH HOLDINGS, LLC
72: KIER, Joel, FRITSCH, Roland, MALZER, Kurt, POLLARD, V, Levi Anderson, MAY, Leondra
33: US 31: 63/352,899 32: 2022-06-16

**54: PROCESS AND DESIGN MODIFICATIONS TO RETROFIT A CONVENTIONAL WOOD PLANT**

00: -

A transformation of an existing, conventional southern yellow pine (SYP) lumber pressure treatment plant that previously impregnated wood with non-sustainable chemicals, to using environmentally friendly sodium silicate formulations. The transformation may include adding heated storage tanks for solutions of siliceous solutions and adding a heater to an existing storage tank, installing delivery lines capable of handling high pH, viscous solutions between at least the pre-existing vacuum pressure impregnation tank and the added or existing heated storage tank, a $CO_2$ storage tank with associated vaporizer and a $CO_2$ recovery system, associated lines to and from the pre-existing vacuum pressure impregnation tank and the $CO_2$ storage tank and the $CO_2$ recovery system, pumps for circulating the solutions, and a thermal management system including: insulation and cladding on one or more of the tanks and lines, heat tracing on all level indicators; and insertion of heating coils in working tanks.



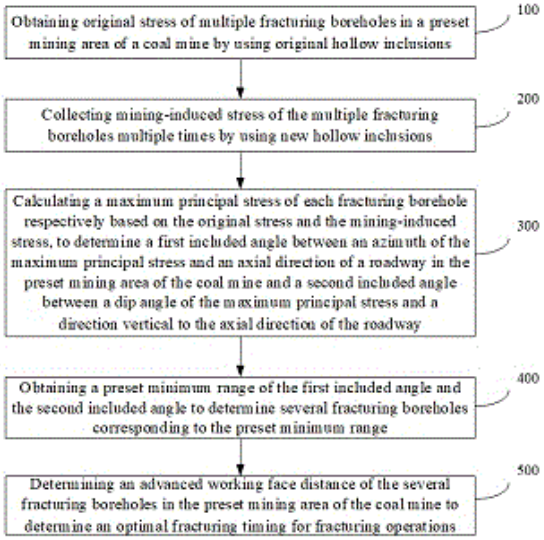

21: 2024/09740. 22: 2024/12/17. 43: 2025/06/30
51: E21B; E21F; E21C
71: CCTEG COAL MINING RESEARCH INSTITUTE, TIAN DI SCIENCE & TECHNOLOGY CO., LTD.
72: LIN, JIAN, CHU, XIAOWEI, WU, ZHIGANG, SUN, ZHIYONG, WANG, TAO
33: CN 31: 202210557277.9 32: 2022-05-19

**54: METHOD AND SYSTEM FOR DETERMINING HYDRAULIC FRACTURING ROOF-CUTTING PRESSURE RELIEF TIME OF DYNAMIC PRESSURE TUNNEL**

00: -

The present application provides a method and system for determining a hydraulic fracturing roof-cutting pressure relief time of a dynamic pressure tunnel. The method comprises: acquiring original rock stresses of a plurality of fracturing drill holes in a coal mine preset mining area; recollecting mining-induced stresses of the plurality of fracturing drill holes; respectively calculating the maximum principal stress of each fracturing drill hole to determine a first included angle between the azimuth angle of the maximum principal stress and the axial direction of a tunnel in the coal mine preset mining area, and a second included angle between the inclination angle of the maximum principal stress and the axially vertical direction of the tunnel; acquiring preset minimum ranges of the first included angle and the second included angle, and determining a plurality of fracturing drill holes corresponding to the preset minimum ranges; and determining the time corresponding to an advanced working face distance of the plurality of fracturing drill holes in the coal mine preset mining area as an optimal fracturing time for performing fracturing

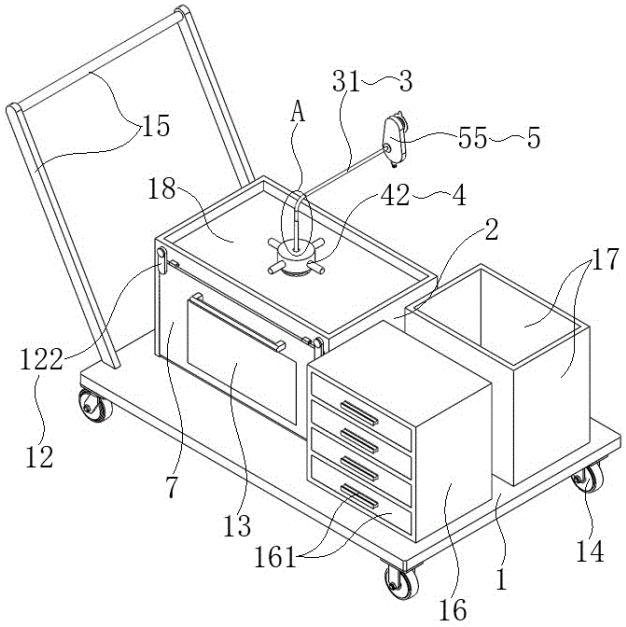
operation. According to the present application, the optimal fracturing time of a rock stratum is obtained by analyzing a rock stratum stress evolution rule, so that a crack is expanded in the vertical direction and the axial direction of the tunnel as far as possible, and thus an optimal roof-cutting effect is achieved, thereby controlling the deformation of the dynamic pressure tunnel.




21: 2024/09770. 22: 2024/12/18. 43: 2025/06/30
51: A01N
71: Wuhan Academy of Agricultural Sciences
72: Mihong Ge, Dehuan Wang, Huan Liang, Zhaoyang Zhang, Juhong Zhu, Xianfeng Shi, Qian Yu, Jiangyong Hu, Jing Song, Aicheng Li, Mobing Zhou, Zuping Chen, Ping Huang
33: CN 31: 202411475527.X 32: 2024-10-22
**54: APPLICATION OF STREPTOMYCES MURINUS JKTJ-3 IN STRAWBERRY SEEDLING CULTIVATION**
00: -
The present invention discloses the application of Streptomyces murinus JKTJ-3 in the cultivation of strawberry seedling. The invention uses S. murinus JKTJ-3 to prepare a microbial agent with a spore concentration ranging from 109 cfu·g-1 to 1012 cfu·g-1. The resulting S. murinus JKTJ-3 microbial agent is applied to strawberry seedlings, which could significantly increase the plant height, stem diameter, root length, leaf number, and biomass of the mother plant seedlings. Furthermore, during the subsequent transplantation and propagation period of the strawberry mother plants, those cultivated with the S. murinus JKTJ-3 microbial agent sprout their stolens earlier, as well as a significant increase in the number of emergent stolens and daughter plants. Thus, the utilization of S. murinus JKTJ-3 in the cultivation of strawberry mother plant seedlings demonstrates a notable efficacy in improving the propagation efficiency of strawberry mother plants, thereby filling a significant gap of microbial methods in strawberry seedling cultivation.

21: 2024/09797. 22: 2024/12/18. 43: 2025/06/30
51: A61K; C07K; C12N; G01N; A61P
71: FUTUREGEN BIOPHARMACEUTICAL (BEIJING) CO., LTD.
72: YANG, Yaping, ZHAO, An, ZHANG, Li'na, LI, Yun, JIN, Zhaoyu, HUO, Naifan, YANG, Xi
33: CN 31: 202210613702.1 32: 2022-05-31
33: CN 31: 202210616280.3 32: 2022-05-31
33: CN 31: 202310573344.0 32: 2023-05-19
**54: ANTI-CD40 ANTIBODY, ANTI-PD-L1×CD40 BISPECIFIC ANTIBODY, AND USE THEREOF**
00: -
Disclosed are an anti-CD40 antibody, an anti-PD-L1×CD40 bispecific antibody, and use thereof. The anti-CD40 antibody comprises a heavy chain variable region and a light chain variable region. The heavy chain variable region comprises the HCDR1, HCDR2 and HCDR3 in SEQ ID NO: 64. The light chain variable region comprises the LCDR1, LCDR2 and LCDR3 in SEQ ID NO: 65. The novel anti-CD40 agonistic antibody of the present invention can effectively regulate and control the activation of DC cells, has a stronger T cell activation effect while having low toxic and side effects, and is suitable for immunotherapy of tumors. The bispecific antibody of the present invention can maximize the anti-tumor drug effect, improve the selectivity of CD40 activation by means of PD-L1-dependent CD40 activation, and lower the toxic and side effects of the CD40 agonistic antibody.

21: 2024/09856. 22: 2024/12/19. 43: 2025/07/21
51: A61M
71: The Second Affiliated Hospital of Guangzhou Medical University
72: Zixin Jiang, Weiyan Chen, Zhibo Li, Deliang Wen
33: CN 31: 202411475336.3 32: 2024-10-21
**54: DRAINAGE DEVICE FOR CRITICAL CARE MEDICINE**
00: -
A drainage device for critical care medicine is provided. Because a puncture site is provided with an exudation collection assembly specially used for receiving exudation, the skin near the puncture site can be kept dry and clean. Because the liquid in the body of a patient is drained by changing the external air pressure of a drainage bag in the present application, components for auxiliary drainage such as a container and a negative pressure pump are not in direct contact with the liquid so that these components can be kept clean without cleaning and may not cause cross infection. Because the liquid in the body of the patient enters the closed drainage bag directly through a drainage tube, and the exudation on the body surface of the patient enters the closed exudation collection assembly, the liquid may not come into contact with the outside and the generated odor may not be discharged into the air. The use is safer and more reliable. In general, through the use of the drainage device for critical care medicine, the puncture site on the body surface of the patient and various components for auxiliary drainage can be kept clean, and the waste liquid is difficult to leak.




21: 2024/09874. 22: 2024/12/19. 43: 2025/07/01
51: B29C
71: STARLINGER & CO GESELLSCHAFT M.B.H.
72: SCHNEIDER, Franz, WEISS, René
33: EP 31: 22184126.5 32: 2022-07-11
**54: ANNEALING MODULE OF A DEVICE FOR PRODUCING STRETCHED THERMOPLASTIC TAPES**
00: -
The annealing module (1) of a device for producing stretched thermoplastic tapes (20) has a housing (2) with an inlet (4) and an outlet (5) for the passage of the plastic tapes (20) to be treated through the inner space (3) of the housing (2). Within the inner space (3) a plurality of rotationally driven rollers (6-11) are arranged on axes parallel to each other and are at least partly enclosed by the plastic tapes (20). The annealing module (1) is equipped with heating means for heating the inner space (3) uniformly up to a temperature, which is at least 70% of the melting temperature of the plastic tapes (20) to be treated, and for heating the inner space (3) up to a temperature of at most 5% above the melting temperature of the plastic tapes (20) to be treated. The rollers (6-11) are driven at such a rotational speed that the tapes, as a function of the path through the annealing module (1), have a dwell time within the annealing module of at most 10 seconds.

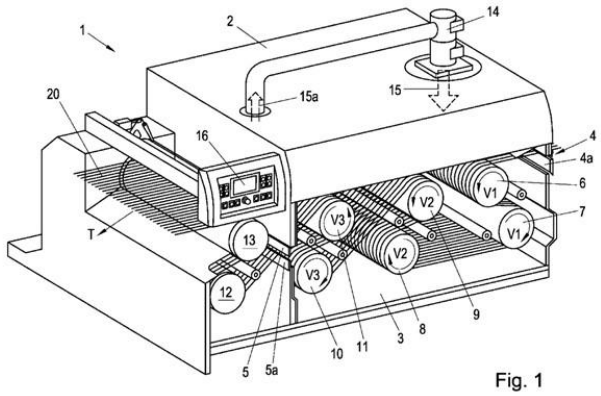
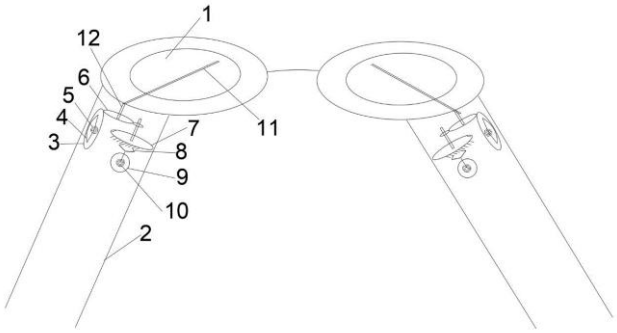
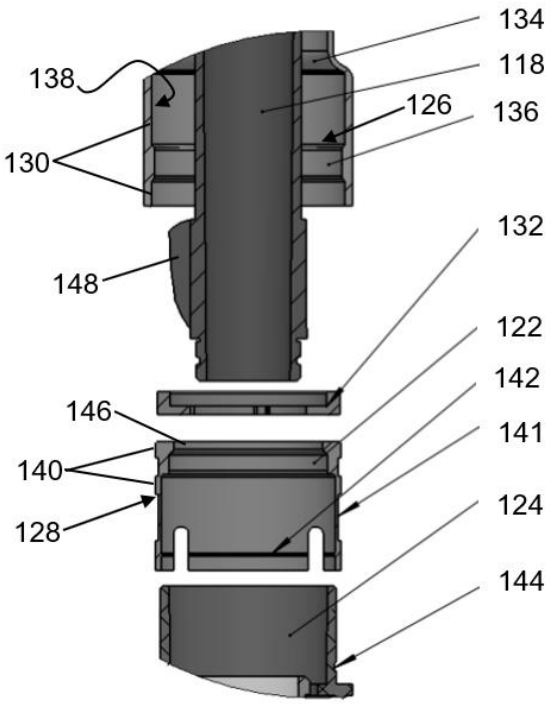


Fig. 1

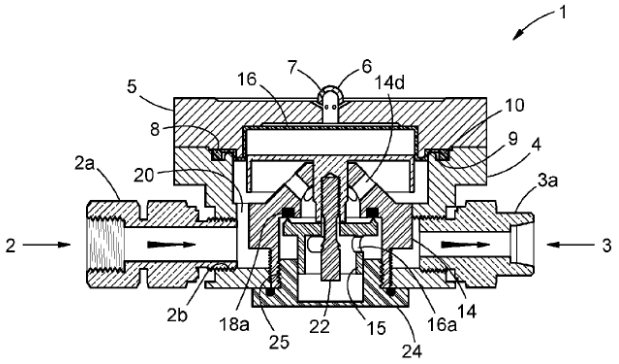
21: 2024/09900. 22: 2024/12/20. 43: 2025/07/21
51: G02C
71: Shanxi Huajin Mingzhu Coal Industry Co., Ltd, North China Institute of Science and Technology, Middling coal Mining Research Institute Co., Ltd, University of Science and Technology Beijing, China University of Mining & Technology, Beijing, Jiangsu Hengyichuang Intelligent Technology Co., Ltd., Zhengzhou Ningke Mine Engineering Co., Ltd.
72: WANG Jinlong, LI Wengang, CHENG Zhiheng, WANG Yang, JU Luchao, CHEN Haoyi, ZHANG Zejun, GUO Kai, LAN Yunpeng, ZHOU Lijie, NIU Zhenjiang, LI Chunyuan, KANG Ning, LIU Jiaqi, HE Wanshun, HE Liusheng
**54: MINE GLASSES WITH SELF-CLEANING FUNCTION**
00: -
The invention discloses mine glasses with self-cleaning function, and belongs to the technical field of underground operation protection. The main device comprises a lens, a hollow frame, two symmetrically arranged micro wiper swing arms and a driving mechanism. The driving mechanism consists of an automatic lever, a clockwork box wheel, an escapement mechanism, a transmission wheel and a transmission rod, and is installed inside the spectacle frame; one section of the transmission wheel is connected with the clockwork box wheel, and the other side is connected with the escapement mechanism; the transmission wheel comprises a gear and a transmission shaft; the escapement mechanism comprises an escapement fork, an escapement wheel and a balance wheel; the micro wiper is connected with that transmission shaft of the transmission wheel, the swing arm of the micro wiper is hinged with the transmission shaft, and a coil spring is arrange on the hinged shaft of the swing arm of the micro wiper and the transmission shaft, and the coil spring is used for enabling the swing arm of the micro wiper to adhere to the lens. The invention can protect workers' eyes from being damaged by dust when working underground, and can realize automatic cleaning without manual cleaning, keep good sight, improve work efficiency and ensure work safety.



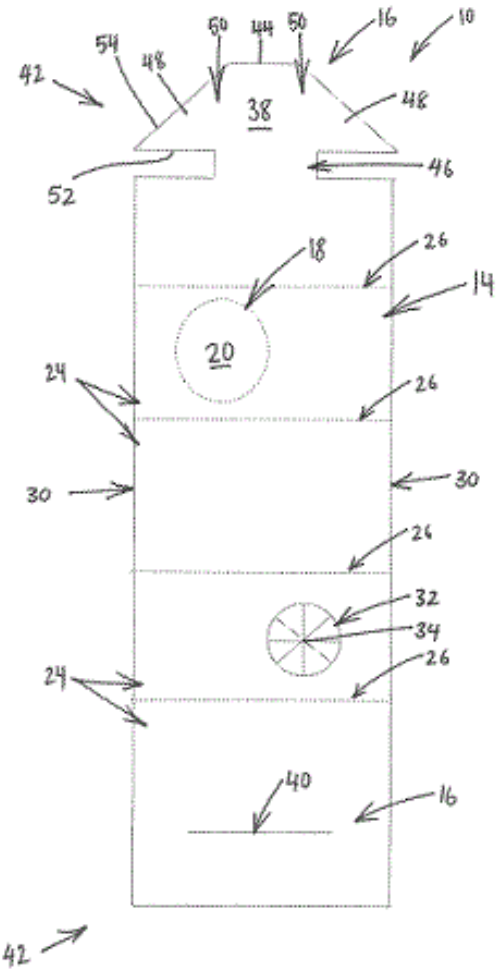

21: 2024/09908. 22: 2024/12/20. 43: 2025/07/02
51: E04H
71: INTEGRATED POOL PRODUCTS (PTY) LTD
72: JUBBER, Wesley
33: ZA 31: 2023/09266 32: 2023-10-04
**54: SWIMMING POOL CLEANER**
00: -
The invention relates to a swimming pool cleaner of the kind that uses a diaphragm to provide a flow interruption drive mechanism. An outer tube for a pool hose has a first internal shoulder and a swivel bushing has a second external shoulder. The shoulders have an overlapping interference configuration to couple the outer tube to the swivel bushing and permit axial rotation of the outer tube on the swivel bushing. An outlet spigot on the head is provided with overlapping interference fit formations to retain the swivel bushing on the spigot.



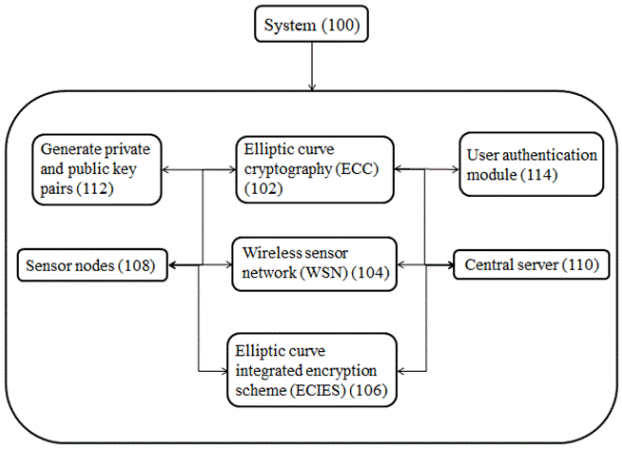

21: 2024/09924. 22: 2024/12/20. 43: 2025/07/02
51: F16K
71: ROHLSSEN, Christian Karl Peter
72: ROHLSSEN, Karl Peter
33: ZA 31: 2022/07075 32: 2022-06-27
**54: DEMAND VALVE FOR AN OXY-FUEL WELDING AND CUTTING SYSTEM**
00: -
This invention relates to a demand valve (1), and more particularly, but not exclusively to a demand valve (1) for use in an oxy -fuel system. A demand valve comprising a valve body made of a nylon material and having an operatively upper (5) and lower section (4) secured together with securing means (12), a flow path through the valve body, a flow path closure device (15) and a diaphragm (8) to move the closure from a closed position to an open position in case of a pressure difference across the diaphragm (8).




21: 2024/09926. 22: 2024/12/20. 43: 2025/06/18
51: B65D F17C
71: CASILLO, Andrea, Vincenzo
72: CASILLO, Andrea, Vincenzo
33: ZA 31: 2022/07397 32: 2022-07-05
**54: A COVER FOR A VALVE**
00: -
A biodegradable cover (10) for a valve (12) of a fluid container which includes a body (14) which is sized, shaped and configured to cover the valve (12) in a covering condition, a retaining arrangement (16) for retaining the body (14) in the covering condition, which retaining arrangement (16) is configured to break irreparably upon removal of the cover (10) from the covering condition, and a zone of weakness (18) defined in the body (14) which defines an access inhibiting portion (20) which is positioned to inhibit access to an opening (22) to the valve (12) in the covering condition, the zone of weakness (18) permitting a user to break the access inhibiting portion (20), typically away from the body (14), and gain access to the opening (22) without the need to break the retaining arrangement (16).

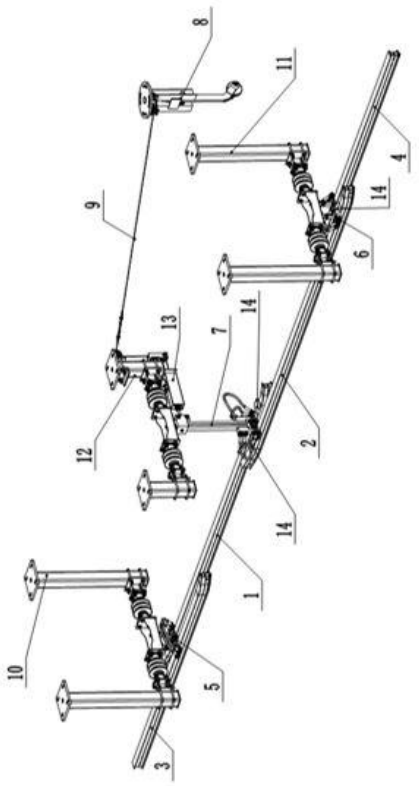



21: 2024/09962. 22: 2024/12/23. 43: 2025/07/02
51: G06F; H04L
71: Harekrushana Parthasarathi Patra, Dr. Anita Dolorosa E, Dr. Sangeetha S, Dr. Kishore Kumar P K, Dr. Pradeep D G
72: Harekrushana Parthasarathi Patra, Dr. Anita Dolorosa E, Dr. Sangeetha S, Dr. Kishore Kumar P K, Dr. Pradeep D G
33: IN 31: 202441099631 32: 2024-12-17
**54: A CRYPTOGRAPHY BASED INTELLIGENT SYSTEM AND METHOD FOR SECURE DATA TRANSACTION**
00: -
This invention relates to a secure data transaction system (100) and method (200) utilizing Elliptic Curve Cryptography (ECC) (102) within a wireless sensor network (WSN) (104). The system (100) features an ECC module (102) for generating public and private key pairs (112), enabling robust encryption and decryption of data transmitted between sensor nodes (108) and a central server (110). It employs the Elliptic Curve Integrated Encryption Scheme (ECIES) (106) to ensure data integrity, confidentiality, and authentication (114) during communication. User authentication (114) is further strengthened through biometric data, such as fingerprint scanning, integrated into the system (100). This secure communication channel supports multi-hop protocols for efficient data transmission and minimizes computational overhead, making it suitable for devices with limited resources. The invention provides a comprehensive security framework addressing the challenges of data privacy and integrity in modern distributed systems.




21: 2024/09989. 22: 2024/12/23. 43: 2025/07/02
51: B60M
71: CHINA RAILWAY HIGH-SPEED ELECTRIFICATION EQUIPMENT CORPORATION LIMITED, CHINA RAILWAY ELECTRIFICATION SURVEY DESIGN AND RESEARCH INSTITUTE CO., LTD.
72: DENG, Xianglong, WANG, Xin, WANG, Zheng, LI, Shoujie, LV, Lihu, FENG, Yong, LIU, Juan, LIN, Jian, LI, Fengyuan, LI, Jinlong, ZHOU, Yujie, LI, Junjie, XIANG, Dong, LI, Li, SUO, Huimin, HE, Hualei, LIU, Jianglei, WU, Qian
33: CN 31: 202410344741.5 32: 2024-03-25
**54: RIGID OVERHEAD-CONTACT-SYSTEM ANCHOR SEGMENT BASED ON THE TRIGGER DISCONNECTION OF CIVIL DEFENSE DOOR**
00: -
A rigid overhead-contact-system anchor segment based on the trigger disconnection of a civil defense door, including: a first busbar, a second busbar, a left-side busbar terminal and a right-side busbar terminal. A left end of the first busbar and the left-side busbar terminal are suspended on a left side of

a door frame of a civil defense door through two first rotary line clamps; a right end of the second busbar and the right-side busbar terminal are suspended on a right side of the civil defense door which has been completely and horizontally opened through two second rotary line clamps; a right end of the first busbar and a left end of the second busbar are suspended on the right side of the door frame of the civil defense door through a detachable line clamp, and a detaching point of the detachable line clamp is higher than a top end of the civil defense door; a swing arm mechanism is fixedly suspended above an end of the civil defense door away from a door shaft after the civil defense door is completely horizontally opened, the swing arm mechanism being connected to the detachable line clamp through a tension cable; a lower end of the swing arm is pushed to rotate upwards when the civil defense door is closed, so that the detachable line clamp is detached and rapidly rotates around the first rotary line clamp and the second rotary line clamp respectively to a vertical state under the action of gravity, so as to leave a closure space for the civil defense door.



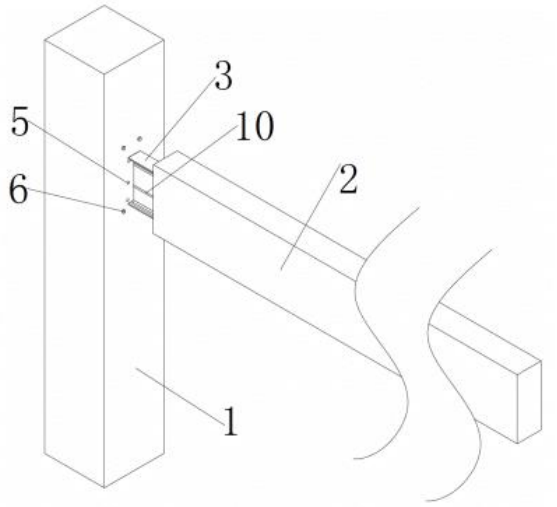

21: 2025/00024. 22: 2025/01/02. 43: 2025/07/14
51: E04B
71: Xinyu University
72: Cai Yunfang, Wang Chengyuan, Sun Yanping, Xu Minghao, Cui Shengchao, Zhang Wu, Liao Feifei, Pi Ling
33: CN 31: 2024227728242 32: 2024-11-14

**54: A NOVEL PREFABRICATED COLUMN-BEAM JOINT STRUCTURE**

00: -

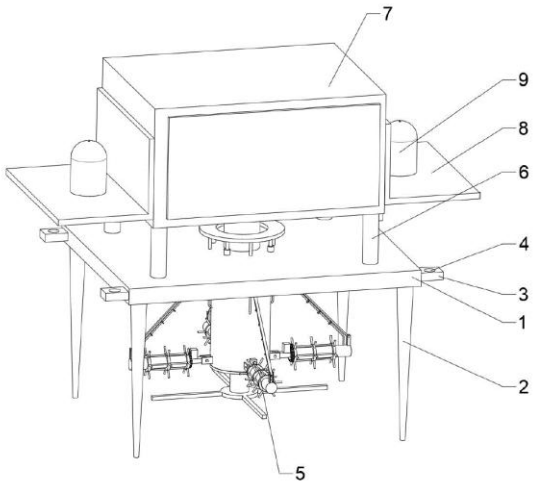
This invention belongs to the field of prefabricated column-beam technology, and particularly relates to a novel prefabricated column-beam joint structure. The structure includes a prefabricated column and a prefabricated beam, with the prefabricated column located to the left of the prefabricated beam. The prefabricated column and beam are arranged in a T-shape, and an H-beam is inserted between the column and the beam. A steel plate is inserted into the middle of the H-beam. The external forces borne by the prefabricated column and beam are transmitted to the “cross” intersection between the H-beam and steel plate for decomposition. Since reinforcing bar sleeves are pre-installed in the prefabricated column, the rebars extending from the prefabricated beam pass through the steel plate and

into the corresponding reinforcing bar sleeves. This arrangement facilitates the efficient and rapid assembly of the joint between the prefabricated column and beam, preventing the H-beam from shifting positions. It enhances the seismic resistance of the connection between the prefabricated column and beam, addressing the problems of insufficient connection strength, low construction efficiency, and high construction difficulty in existing column-beam joint structures.




21: 2025/00032. 22: 2025/01/02. 43: 2025/07/14
51: B09B
71: South China University of Technology
72: Liu Weizhen, Gao Wuyou, Gao Huiqin, Huang Xingzhong, Lin Zhang
33: CN 31: 2024117582200 32: 2024-12-03
**54: A SYNERGISTIC TREATMENT METHOD FOR ALUMINUM DROSS AND FLY ASH**
00: -
The invention belongs to the technical field of solid waste treatment and discloses a synergistic treatment method for aluminum dross and fly ash. The method comprises the following steps: (1) uniformly stirring and mixing fly ash and aluminum dross to obtain a homogeneous mixture; (2) subjecting the fly ash-aluminum dross mixture to microwave treatment for 5–10 minutes at 300 W; (3) adding sodium silicate and sodium hydroxide to water, stirring and dissolving to obtain an alkali activator; (4) adding the alkali activator to the fly ash-aluminum dross mixture, stirring to form a slurry, then transferring the slurry to a mold, shaking to remove bubbles, and curing to obtain a product containing Friedel's salt. The invention generates a novel cementing material, Friedel's salt, through the synergistic treatment of fly ash and aluminum dross from waste incineration, achieving the synergistic treatment of fly ash and aluminum dross and realizing the purpose of waste-to-waste treatment.

21: 2025/00051. 22: 2025/01/02. 43: 2025/07/14
51: G01D
71: Jining Normal University
72: Bao Xiangping, Pang Yan
**54: AN ENVIRONMENTAL MONITORING ECOLOGICAL SAFETY EARLY WARNING DEVICE**
00: -
The invention provides an environmental monitoring ecological safety early warning device, related to the technical field of warning devices. This environmental monitoring ecological safety early warning device includes a mounting plate, where the upper side of the mounting plate is fixedly connected to a vertical rod. The upper end of the vertical rod is fixedly connected to a monitoring instrument, which contains a pressure sensor and a methane sensor. The lower side of the mounting plate is equipped with a collection unit and is fixedly connected to an insertion rod. Both sides of the monitoring instrument are fixedly connected to mounting blocks, and the upper side of each mounting block is fixedly connected to a warning device. By configuring the monitoring instrument, mounting plate, central collection pipe, multiple collection branch pipes, collection holes, rotating ring, and stirring rod, the device facilitates gas collection from marsh areas. The stirring rod is controlled to rotate, stirring the marsh soil, allowing gases within the marsh to quickly escape. This enables rapid gas collection, monitoring, and timely warning.

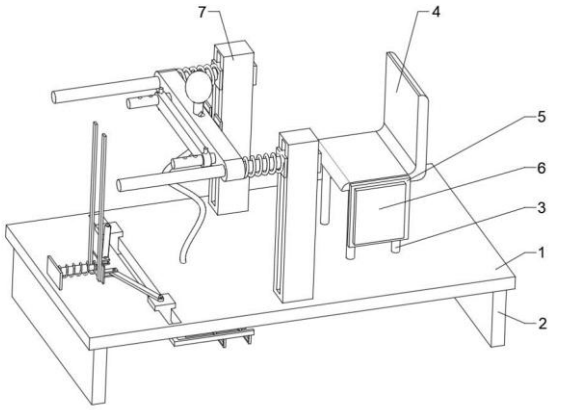



21: 2025/00055. 22: 2025/01/02. 43: 2025/07/14
51: A63B
71: HuaiNan Normal University
72: Li lanfang, Zhang jing

**54: A SPORTS PHYSICAL FITNESS TRAINING DEVICE**

00: -

This invention provides a sports physical fitness training device, related to the field of fitness equipment. The sports physical fitness training device includes a base plate, with a support block fixedly connected to the underside of the base plate. A vertical rod is fixedly connected to the upper side of the base plate, and a seat is fixedly connected to the upper end of the vertical rod. The upper side of the base plate is equipped with a training unit, which consists of two vertical plates. Both vertical plates are fixedly connected to the upper side of the base plate. The outer sides of the vertical plates are provided with lifting grooves, inside of which lifting blocks are connected to slide. A sliding rod is fixedly connected to the left side of the lifting block, and a push plate slides on the outer side of the sliding rod. By providing vertical plates, sliding rods, push plates, and spring components, the device facilitates leg physical fitness training. Additionally, through the use of a fixed pipe, airbag, secondary sliding groove, secondary slider, inclined board, control block, side plates, and air tank, the device allows for easy training observation and adjustment through changes in the airbag, enabling better tracking of training progress.

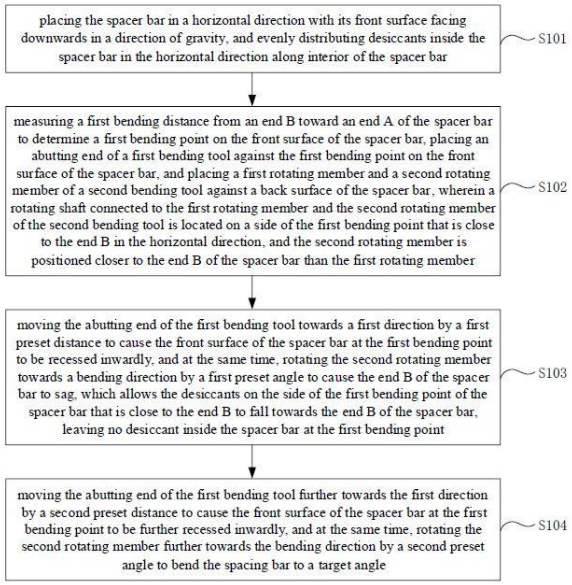



21: 2025/00101. 22: 2025/01/02. 43: 2025/07/07
51: B21D; E06B
71: SHANDONG NATERGY ENERGY TECHNOLOGY CO., LTD.
72: GAO, Wei
33: CN 31: 202210779496.1 32: 2022-07-04

**54: BENDING METHOD FOR SEALED-FILLER-TYPE SPACER BAR FOR INSULATING GLASS UNIT**

00: -

A bending method for a sealed-filler-type spacer bar for an insulating glass unit, which relates to the technical field of insulating glass units. The bending method comprises the following steps: placing a spacer bar in a horizontal direction with a front surface thereof downwards in the direction of gravity, and causing desiccants in the spacer bar to be uniformly distributed in the horizontal direction along the interior of the spacer bar; and measuring a first bending distance from an end B to an end A of the spacer bar so as to determine a first bending point on the front surface of the spacer bar, making an abutting end of a first bending tool abut against the position of the first bending point on the front surface of the spacer bar, and making a first rotating member and a second rotating member of a second bending tool abut against a back surface of the spacer bar, wherein a rotating shaft connected to the first rotating member and the second rotating member of the second bending tool is located on the side of the first bending point close to the end B in the horizontal direction, and the second rotating member is closer to the end B of the spacer bar relative to the first rotating member. The method can solve the negative effect of internal desiccants on the bending of a spacer bar when the spacer bar is bent.

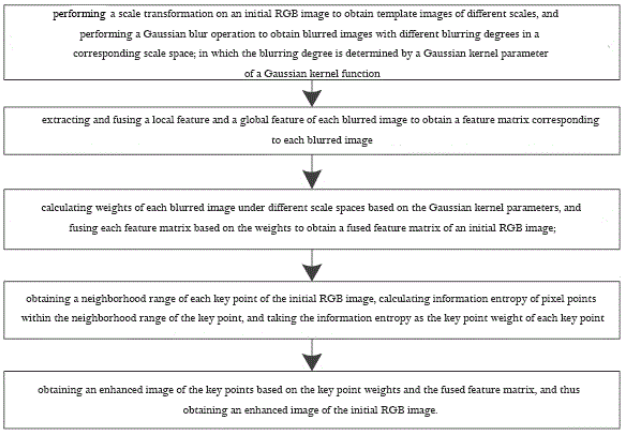



21: 2025/00127. 22: 2025/01/03. 43: 2025/07/25
51: G06T
71: Zhengzhou University of Aeronautics
72: Litao ZHANG, Yongwei ZHOU, Yingchao ZHAO, Xin LIAO, Erbao FENG, Yifan ZHANG, Junhui ZHU, Zhanwei WANG, Dayong WU, Xia LIU, Fang YAN

**54: IMAGE ENHANCEMENT METHOD BASED ON GAUSSIAN BLUR PROCESSING**

00: -

The disclosure relates to the technical field of image processing, and is specifically an image enhancement method based on Gaussian blur processing, in which a scale transformation is performed on an initial RGB image, local and global feature of each blurred image are extracted, and a feature matrix corresponding to each blurred image is fused to obtain the corresponding feature matrix of each blurred image; the weights of each blurred image are calculated for each blurred image in different scale spaces; the fusion is performed on the respective feature matrices based on the weights, and a fused feature matrix of the initial RGB image is obtained The fused feature matrix is fused based on the weights to obtain the fused feature matrix of the initial RGB image; the neighborhood range of each key point of the initial RGB image is determined, and the information entropy of the pixels within the neighborhood range of the key point is calculated as the key point weight of each key point; based on the key point weight and the fused feature matrix, the initial RGB image is enhanced, and the initial RGB image can be accurately enhanced.

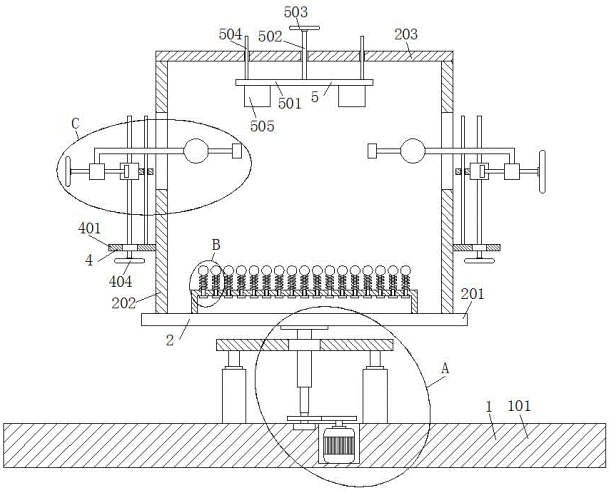



21: 2025/00128. 22: 2025/01/03. 43: 2025/07/21
51: A47F
71: Jiaxing Vocational & Technical College
72: MENG Weiyang

**54: CLAMPING DISPLAY DEVICE FOR AUTOMOBILE MODULE TEACHING**

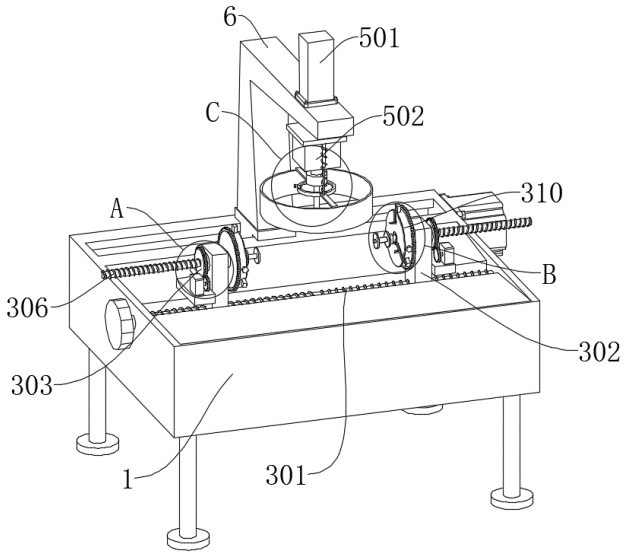
00: -

The invention discloses a clamping display device for automobile module teaching in the technical field of automobile teaching, it includes a display assembly, which includes a base, and a first bearing is fixedly connected at the middle position of the top of the base; through the arrangement of the first positioning assembly, the second positioning assembly and the third positioning assembly, the automobile module can be placed on the surfaces of a plurality of spherical balls, and can be elastically limited according to the area of the bottom of the automobile module through the arrangement of the limiting rod, the limiting plate and the first spring, and the automobile module can be further clamped and fixed through the arrangement of the clamping blocks at two sides and the top splint, in addition, through the arrangement of the limiting square rod, the square hole ring, the circular plate and the second spring, the distance between two adjacent clamping blocks can be expanded and contracted, and the distance between two adjacent clamping plates can be adjusted through the arrangement of the third threaded rod and the third hand wheel, so that automobile modules with different thicknesses can be clamped, and the flexibility of the display device is improved.



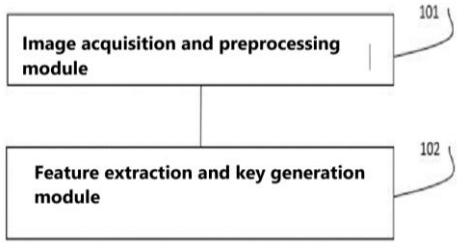

21: 2025/00130. 22: 2025/01/03. 43: 2025/07/25
51: B23B
71: Zhengzhou University of Aeronautics
72: Yonghui WEI, Hehuan ZHU, Shuai ZHOU, Xiuli WANG, Axiang ZHOU
**54: PIPE HOLE DRILLING APPARATUS FOR MECHANICAL PROCESSING**
00: -

The invention discloses pipe hole drilling apparatus for mechanical processing in the field of drilling apparatus technology. It comprises a machine base with a mounting slot and a positioning slot. A fastening assembly is installed in the mounting slot, and a traversing mechanism is installed in the positioning slot. A frame is mounted on the traversing mechanism, and a drilling unit is installed on the frame. The beneficial effect is achieved through motor I, gear II, gear I and lead screw which adjust the position of the support bracket inside the tubular member. The support bracket provides support on both sides of the drilling position, improving positional stability, preventing deformation at the drilling location, facilitating optimized drilling operations, and enhancing drilling quality.




21: 2025/00131. 22: 2025/01/03. 43: 2025/07/25
51: H04L
71: Zhengzhou University of Aeronautics
72: Litao ZHANG, Yongwei ZHOU, Yingchao ZHAO, Xin LIAO, Erbao FENG, Yifan ZHANG, Junhui ZHU, Zhanwei WANG, Dayong WU, Xia LIU, Fang YAN
**54: FINGERPRINT KEY ACQUISITION SYSTEM BASED ON GRAYSCALE COVARIANCE MATRIX**
00: -

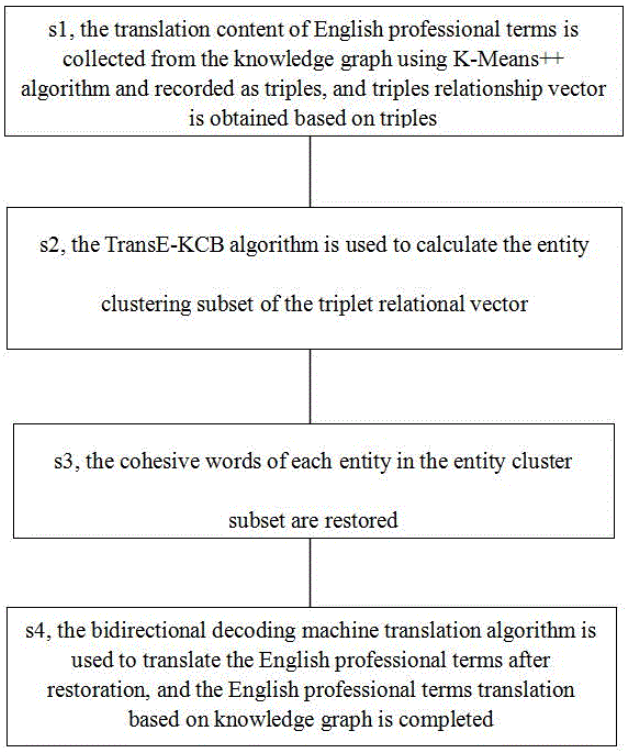
The disclosure relates to data processing, and specifically relates to a fingerprint key acquisition system based on a grayscale covariance matrix, comprising: an image acquisition and preprocessing module for acquiring a fingerprint grayscale image and obtaining a processed fingerprint image; a feature extraction and key generation module for acquiring a grayscale covariance matrix and an expanded grayscale dependency matrix of the fingerprint grayscale image, so as to obtain a grayscale feature matrix; obtaining a tensor in each direction based on the direction field to get the specific value; obtaining the texture value of the fingerprint grayscale image according to the clustering result; obtaining the new texture value and the data after binaryization of each eigenvalue in the grayscale eigenmatrix according to the new texture value and the grayscale eigenmatrix, and obtaining the fingerprint key to improve the security of the fingerprint key.




21: 2025/00132. 22: 2025/01/03. 43: 2025/07/21
51: A01B
71: Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences
72: CHEN Guoshuang
**54: METHODS FOR IMPROVING THE SALINE-ALKALI SOIL OF LYDUM CHINENSE MIL1 ECOLOGICAL FOREST**
00: -
The invention provides a method for improving saline-alkali soil of Lydum chinense Mil1 ecological forest, which relates to a method for improving soda saline-alkali soil. The invention aims to solve the technical problems of high cost and waste of water resources caused by the high amount of modifier applied by the existing method for improving soda alkaline land. The method is as follows: 1, Plot selection; 2, deep loosening preparation; 3, the seedling belt ditch; 4, Lydum chinense Mil1 planting; 5, Water and fertilizer management; 6, plastic trimming; 7, Prevention and control of diseases, pests and grasses; 8, fruit picking. The method does not input chemical improver, reduces initial land development cost, realizes cost saving and efficiency increase, has simple operation method, and can provide important technical support for sustainable production and utilization of soda saline-alkali land. The pH value of saline-alkali land with pH value of 9.25 ~ 9.56 and salt content of 0.3% ~ 0.5% can be reduced to 8.65 and the desalting rate can reach 35.8% after the method of the invention is improved. The invention belongs to the field of saline-alkali land improvement.

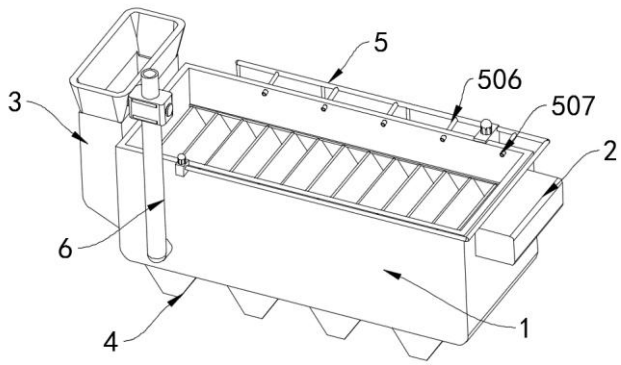
21: 2025/00133. 22: 2025/01/03. 43: 2025/07/21
51: C05G
71: Shandong Academy of Agricultural Sciences
72: ZHONG Ziwen, ZHANG Yingpeng, MA Pan, LI Yan, LIU Zhaodong, SUN Ming, JING Yongping, BO Luji
33: CN 31: 2024110917256 32: 2024-08-09
**54: A POLYURETHANE COATING MATERIAL AND COATED FERTILIZER**
00: -
This invention provides a polyurethane coating material, comprising polyol, an isocyanate component, 1,4-butanediol, an enhancer, and a lubricant, in a mass ratio of (35-55):(40-52):(1.5-4.5):(0-0.5):(5-6.5). The enhancer is triethylamine, and the lubricant is paraffin. The isocyanate component includes MDI-50 and castor oil. The preparation method of the coated fertilizer involves mixing and stirring the fertilizer with the coating material to obtain the coated fertilizer. This invention offers a coated fertilizer using polyurethane as the raw material, which enables rational fertilizer application without increasing costs, improves fertilizer utilization, reduces nutrient loss, and minimizes environmental pollution. It achieves one-time fertilization, directly addressing the impact of labor shortages in modern rural areas on agricultural production, and delivers significant ecological and economic benefits.

21: 2025/00134. 22: 2025/01/03. 43: 2025/07/21
51: G06F
71: Henan University of Urban Construction
72: SHI Chunyan, GE Jing, YU Ruixue
**54: TRANSLATION METHOD AND SYSTEM OF ENGLISH PROFESSIONAL TERMS BASED ON KNOWLEDGE GRAPH**
00: -
This application discloses a translation method and system of English professional terms based on knowledge graph, the method includes: the translation content of English professional terms is collected from the knowledge graph using K-Means++ algorithm and recorded as triples, and triples relationship vector is obtained based on triples; the TransE-KCB algorithm is used to calculate the entity clustering subset of the triplet relational vector; the cohesive words of each entity in the entity cluster subset are restored; the bidirectional decoding machine translation algorithm is used to translate the English professional terms after restoration, and the English professional terms translation based on knowledge graph is completed.



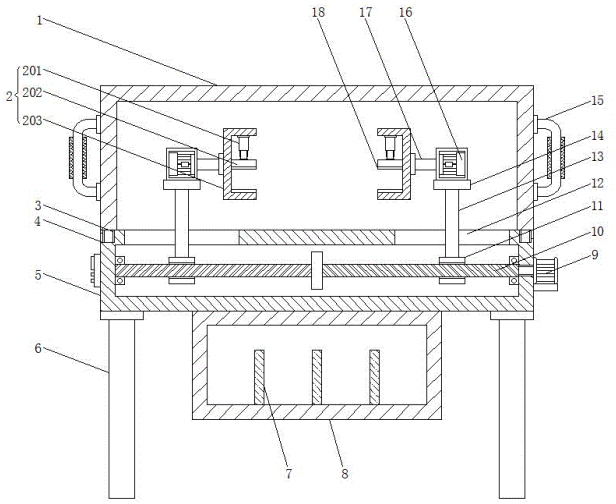

21: 2025/00135. 22: 2025/01/03. 43: 2025/07/21
51: A23K
71: LESHAN NORMAL UNIVERSITY, Sichuan Meishan Wanjiahao Feedstuff Co., Ltd.
72: GONG Mingfu, GUAN Qinlan, DAI Fawen, LI Xia
**54: PROBIOTICS OF PIG CONSISTING OF LACTOBACILLUS PARACASEI, LACTOBACILLUS HARBINENSIS, LACTOBACILLUS BUCHNERI AND PICHIA DESERTICOLAICOLA**
00: -
The invention discloses a pig probiotic preparation composed of Lactobacillus paracasei, Lactobacillus harbinensis, Lactobacillus buchneri and Pichia deserticola, which belongs to the technical field of pig breeding. The probiotic composition is composed of Lactobacillus paracasei, Lactobacillus harbinensis, Lactobacillus buchneri and Pichia deserticola, and the additive is added to produce the benefit bacteria preparation, which is mixed with the conventional pig feed, and the survival rate of the probiotic is found to be extremely high, reaching 97% through the simulated gastric juice digestion experiment; the results show that the probiotic preparation provided by the invention as a feed additive can significantly increase the content of probiotics in pig intestine, and has broad application prospect.

21: 2025/00136. 22: 2025/01/03. 43: 2025/07/21
51: B01D
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: GU Deming, MAO Yanli, LI Lei, KANG Haiyan, WANG Quanjun, PAN Hongwei, RONG Haoxiang, SU Zhe
**54: INTELLIGENT, EFFICIENT, GREEN AND LOW-CARBON SLUDGE DISCHARGING AND CLEANING DEVICE FOR SEDIMENTATION TANK**
00: -
The invention relates to the field of sewage treatment, in particular to an intelligent, efficient, green and low-carbon sludge discharging and cleaning device for sedimentation tank, which comprises a sedimentation tank, a water discharge tank, liquid inlet box, sludge bucket, circulating cleaning module and sludge suction pipe. The invention uses the sludge suction pipe, which is located in the sedimentation tank and corresponding to the position of the sludge bucket, and can be used for sucking the deposited sludge. The ultrasonic mud level meter is used for real-time monitoring the parameters such as the mud level height and the residual amount of sludge, and the detected data is sent back to the control terminal through the pipeline, so that the mud suction rate of the sludge suction pipe can be adjusted in real time. With the cooperation of the high-pressure water gun, the circulating water pipe is connected for water supply through the circulating cleaning module, so that the sludge bucket can be cleaned to prevent residue, and the high-pressure water gun is used for cleaning, so as to achieve the effect of thorough cleaning, improve the sludge discharge efficiency and make the effluent more stable.




21: 2025/00137. 22: 2025/01/03. 43: 2025/07/21

51: G05B
71: Jiaxing Vocational & Technical College
72: MENG Weiyang
**54: COMPUTERIZED NUMERICAL CONTROL MACHINE TOOL TRAINING OPERATION PLATFORM**
00: -
The invention discloses a computerized numerical control machine tool training operating platform, which relates to the technical field of the practical training platform, comprises a bearing seat (5), both ends of the bottom of the bearing seat (5) are installed with a telescopic support column (6), and the top of the bearing seat (5) is provided with a dust cover (1), both ends of the bottom of the dust cover (1) are connected with a card plate (3), both ends of the top of the bearing seat (5) are provided with a card slot (4) matching with the card plate (3), the inner cavity of the bearing seat (5) is provided with a translation component, both ends of the top of the translation components are arranged with a drive motor (16), the output end of the two groups of drive motors (16) is equipped with a drive shaft (17), one end of the two sets of drive shafts (17) far from the drive motor (16) is provided with a clamping components (2). The invention through the dust cover, card plate and card slot with the matching setup, through the card plate and card slot insertion fit, the dust cover is installed in the top of the carrier seat, so that the machining parts can be protected from dust, as far as possible to avoid the internal parts into the dust, resulting in the use of the later inconvenient situation.




21: 2025/00163. 22: 2025/01/06. 43: 2025/07/08
51: C12Q
71: SERUM INSTITUTE OF INDIA PRIVATE LIMITED
72: GAIROLA, Sunil Jagdishprasad, GOEL, Sunil Kumar, SHARMA, Pankaj Keshav, KALE, Sameer Manohar, PHUGARE, Swapnil Suresh, MANDHAN, Aarushi, SHINDE, Sagar Tanaji
33: IN 31: 202421001155 32: 2024-01-05
**54: METHOD FOR QUANTIFICATION OF FREE POLYSACCHARIDE AND TOTAL POLYSACCHARIDE IN VACCINE COMPOSITIONS**
00: -
The present disclosure relates to a method for separation and/or quantification of free polysaccharide and/or total polysaccharide content in the monovalent polysaccharide protein conjugate bulk or multivalent conjugate vaccine composition. Particularly, the present disclosure relates to a method involving separation of free polysaccharide using multi-modal or mixed-mode chromatography and direct quantification of free polysaccharide and/or total polysaccharide content by spectrophotometry method, wherein serotype specific polysaccharide standard is utilized (instead of conventionally used phosphorus standard). The spectrophotometry utilizes combination of acids in a specific ratio/temperature/duration and provides simultaneous degradation and decolorization of sample, along with use of centrifugal filters that avoid excipient interference. The combination of multi-modal or mixed-mode chromatography and spectrophotometry method provides better

separation of free polysaccharides and direct estimation of free polysaccharide in conjugate bulk or vaccine composition avoiding use of carrier gas, costly derivatizing agents and use of conversion factor. This optimized method exhibits several advantages (such as simplicity, sensitivity, robustness, reproducibility, easy, accuracy and shorter duration analysis time, cost effectiveness and reliability).

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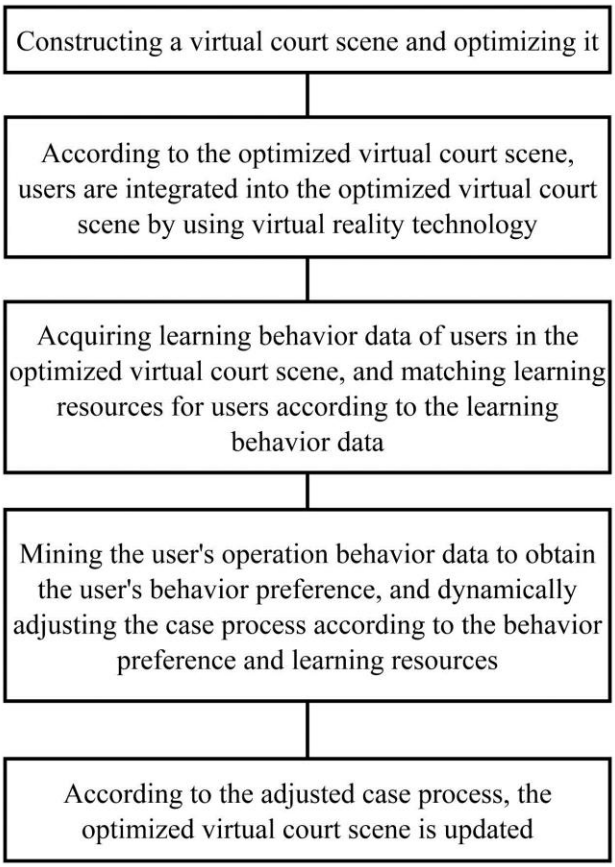
21: 2025/00167. 22: 2025/01/06. 43: 2025/07/21
51: G06F
71: Henan University of Urban Construction
72: WEI Lijun, MA Dongli, GUO Yizhen, LIU Hongwei, LU Ling, LI Yanke

**54: TEACHING METHOD AND SYSTEM OF COURT DRILL BASED ON VIRTUAL REALITY**

00: -
The invention relates to a teaching method and system of court drill based on virtual reality, which includes the following steps: constructing a virtual court scene and optimizing it; according to the optimized virtual court scene, users are integrated into the optimized virtual court scene by using virtual reality technology; acquiring learning behavior data of users in the optimized virtual court scene, and matching learning resources for users according to the learning behavior data; mining the user's operation behavior data to obtain the user's behavior preference, and dynamically adjusting the case process according to the behavior preference and learning resources; according to the adjusted case process, the optimized virtual court scene is updated. The invention provides an immersive learning experience, and effectively improves the pertinence and effect of legal talent training.

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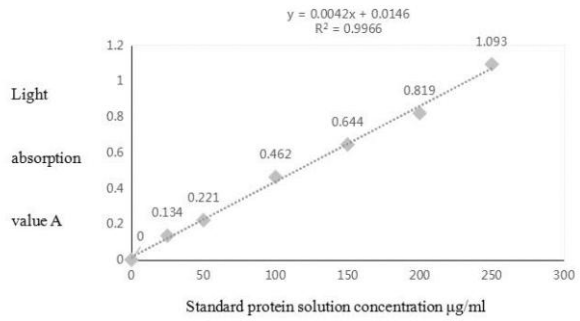
21: 2025/00169. 22: 2025/01/06. 43: 2025/07/21
51: A23L
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: LU Tie, GAO Zhaojia, CUI Weizheng, WANG He, WANG Qiyuan, WANG Feiran, LUO Xiang, XIE Zhaohui

**54: MEAL REPLACEMENT FOOD BASED ON THE BIDIRECTIONAL FERMENTATION OF OUDEMANSIELLA RAPHANIPIES AND PEANUTS**

00: -
The invention discloses a meal replacement food which is based on the bidirectional fermentation of oudemansiella raphanipies and peanut. Peanut, yam, rice and oxidized flaxseed were selected as the single component fermentation substrate, and the fermentation mycoplasm is obtained after inoculation with the liquid culture of oudemansiella raphanipies for about 10 days. The protein in the mycoplasm is extracted and measured, and then the polypeptide content is measured by hydrolyzing the protein. Finally, the antioxidant activity of the polypeptide is tested after the removal of impurities, and the optimal mycoplasm is selected: The production of

meal replacement food was carried out in the group ofoudemansiella raphanipies. This meal replacement is characterized by the following ingredients: purple sweet potato powder, buckwheat flakes, servings konjaku flour powder, servings wheat germ powder, servings quinoa flour power , servings purple potato flour, servings mung bean peptide powder, servings red dates, servings wheat oligopiptide powder, servings rice peptide powder, servings red kidney bean powder, servings peanut and oudemansiella raphanipies powder, servings conjugated linoleic acid glyceride, servings whole grain rice flour, servings kudzu powder. The meal replacement food has the effects of slimming and reducing fat, clearing dampness and supplementing qi and blood, protecting kidney and liver, anti-oxidation and enhancing human immunity. The invention also provides a preparation method for the meal replacement food.

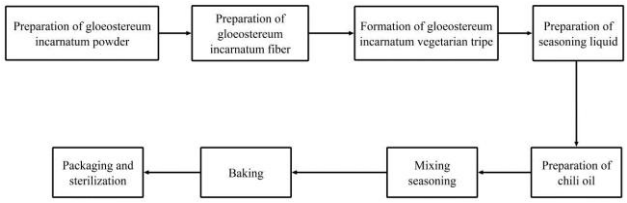



21: 2025/00170. 22: 2025/01/06. 43: 2025/07/21
51: A23P
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: LU Tie, WANG He, ZHANG Zibo, ZHANG Xiaorui, ZHANG Suya, WANG Gaofeng, Hou Siyu, XIE Zhaohui

**54: GLOEOSTEREUM INCARNATUM VEGETARIAN TRIPE RICH IN ULMUS PUMILA POLYSACCHARIDE**

00: -

The invention discloses a gloeostereum incarnatum vegetarian tripe rich in ulmus pumila polysaccharide. A gloeostereum incarnatum vegetarian tripe rich in ulmus pumila polysaccharide includes the following components: gloeostereum incarnatum, chili pepper, soybean oil, soy protein isolate, white sugar, pepper, garlic slices, cinnamon, star anise, fennel, licorice, clove, ginger, salt, soy sauce, ulmus pumila polysaccharide, carrageenan, cellulase, monosodium glutamate, honey, vitamin C, disodium nucleotide and sodium diacetate. The preparation process includes the following steps: S1 preparation of gloeostereum incarnatum powder, S2 enzymatic preparation of gloeostereum incarnatum fiber, S3 formation of gloeostereum incarnatum vegetarian tripe, S4 preparation of seasoning liquid, S5 preparation of chili oil, S6 mixing seasoning, S7 baking, S8 packaging and sterilization. The raw material of the invention is a medicinal fungus with an appearance similar to that of tripes, which is a high-protein and low-fat food. The taste of ulmus pumila polysaccharide is similar to that of tripes, crisp and refreshing, and gloeostereum incarnatum is rich in ulmus pumila polysaccharide, which has good antioxidant, antibacterial and antitumor activities. It is beneficial to the development of edible fungi resources to prepare the ear-covering beef tripe.




21: 2025/00172. 22: 2025/01/06. 43: 2025/07/21
51: C04B
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: YAO Liyang, GAO Wenying, FU Hao, LI Guobin, ZHANG Junguan

**54: COAL GANGUE ASPHALT MIXTURE AND PREPARATION METHOD THEREOF**

00: -

The invention discloses a coal gangue asphalt mixture and a preparation method thereof. The weight ratio of each component is 30-80 parts of coarse aggregate, 20-70 parts of fine aggregate, 3-6 parts of asphalt and 3-6 parts of modified coal gangue. The preparation method is as follows: (1) coal gangue modification; (2) preheating coarse and fine aggregates at 160-180 degrees Celsius, adding asphalt and stirring evenly; (3) adding the modified coal gangue into the mixture prepared in step (2) and mixing well. The invention uses industrial waste coal gangue as the raw material of asphalt mixture, which can not only turn waste into treasure, reduce land occupation area and environmental pollution, but also reduce the material cost of preparing

asphalt mixture, and improve the road performance of asphalt mixture at the same time, and is worthy of wide popularization and use.

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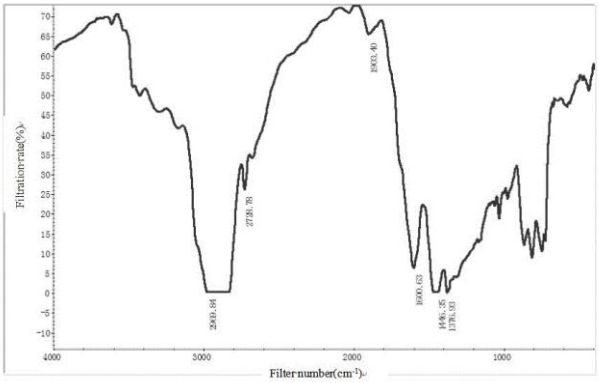
21: 2025/00173. 22: 2025/01/06. 43: 2025/07/21
51: G01N
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: YAO Liyang, GAO Wenying, FU Hao, LI Guobin, ZHANG Junguan
**54: A SAMPLE PREPARATION METHOD FOR INFRARED SPECTRUM ANALYSIS OF ASPHALT-BASED MATERIALS**
00: -
The invention discloses a sample preparation method for infrared spectrum analysis of asphalt-based materials, which includes the following steps: firstly, heating the asphalt-based materials into a liquid state, then a metal ring with a diameter greater than 13mm is immersed in the liquid asphalt-based material., and then slowly taking out the metal ring, so that the asphalt-based materials will form a film on the metal ring, putting the metal ring and the film together in an oven, and drying at 60°C for 1h, so as to prepare a film sample required by infrared spectrum analysis, and placing the film on a plug-in board equipped with an infrared spectrum analyzer for infrared spectrum scanning test. The method provided by the invention is simple, convenient to operate, convenient and easy to operate without any other intermediate materials or carriers, and does not need to be cleaned; the prepared analysis sample meets the thin-film sample required by infrared spectrum analysis; the obtained infrared scanning spectrum is clear and reliable, and the result reproducibility is good, so that the method is suitable for wide popularization and application on all asphalt-based materials and other viscous materials.

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21: 2025/00174. 22: 2025/01/06. 43: 2025/07/21
51: E01C
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: YAO Liyang, GAO Wenying, FU Hao, LI Guobin, QIN Chongsen, LUO Yangyang, XU Bo
**54: A OPEN GRADING DRAINAGE WEARING LAYER ADDING BASALT FIBER**
00: -
The invention discloses an open grading drainage wearing layer adding basalt fiber, which consists of a conventional open grading drainage wearing layer and chopped basalt fiber, and the dosage of chopped basalt fiber is 0.1-1.0% of the total weight of the open grading drainage wearing layer mixture. The basalt fiber reinforced open grading drainage wearing layer of the invention has excellent drainage, anti-skid, noise reduction and other functions, as well as good high-temperature rutting resistance and water damage resistance; basalt fiber has the functions of adsorption, reinforcement, viscosity enhancement, crack resistance and toughening in the mixture of open grading drainage wearing layer, so that the open grading drainage wearing layer reinforced by basalt fiber has good drainage, anti-skid, noise reduction and other functions, as well as good high-temperature stability and water stability. The implementation method is simple and easy, and that basalt fib reinforced open grading drainage wearing lay mixture can be directly prepared by using the existing equipment, and can be used for highways of all grades.

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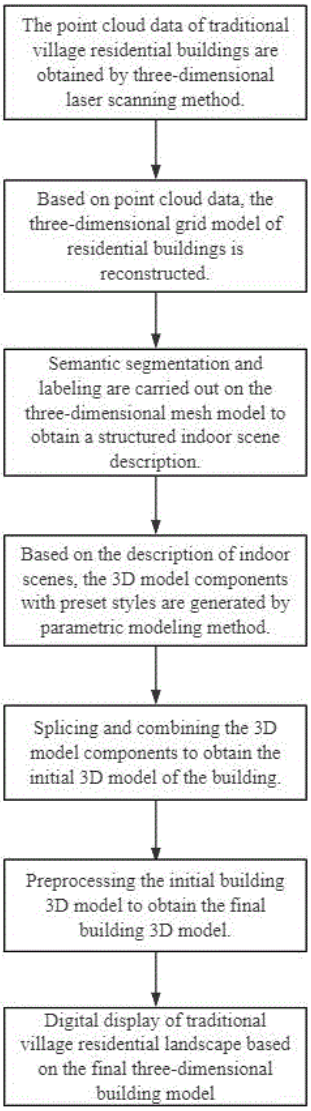
21: 2025/00175. 22: 2025/01/06. 43: 2025/07/21
51: G06F
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

72: HUANG Wei, REN Huijuan, DANG Wei, WU Wanying, CUI Mingming, LI Jiang

**54: A METHOD AND A SYSTEM FOR DIGITAL DISPLAY OF TRADITIONAL VILLAGE RESIDENTIAL LANDSCAPE**

00: -

The invention relates to a digital display method and system of traditional village residential landscape, which includes the following steps: acquiring point cloud data of traditional village residential buildings by adopting a three-dimensional laser scanning method; based on point cloud data, the three-dimensional grid model of residential buildings is reconstructed; semantic segmentation and labeling are carried out on the three-dimensional mesh model to obtain a structured indoor scene description; based on the description of indoor scene, a 3D model component with preset style is generated by parametric modeling method. Splicing and combining the three-dimensional model components to obtain the initial three-dimensional model of the building; pre-process the initial building 3D model to obtain the final building 3D model. The invention solves the problems of insufficient precision, difficult style restoration, single information display and the like in the digital reconstruction of traditional houses, realizes the high-precision three-dimensional reconstruction and multi-modal information display of traditional village houses, and provides a new technical means for the digital protection and inheritance of traditional buildings.




21: 2025/00177. 22: 2025/01/06. 43: 2025/07/21
51: G09B

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

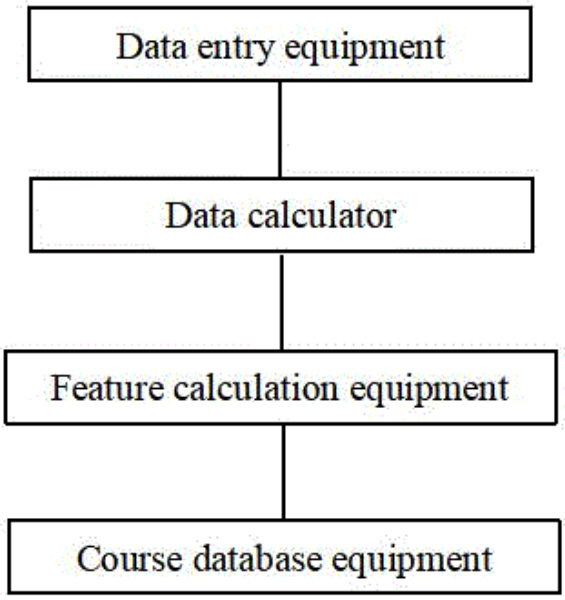
72: ZHANG Qiang, HE Xiaoli, WANG Xiaoyong, ZHANG Xiaojuan, ZHAO Kehui, WANG Shihan, ZHANG Haopeng

**54: REAL ESTATE LEGAL TRAINING SYSTEM**

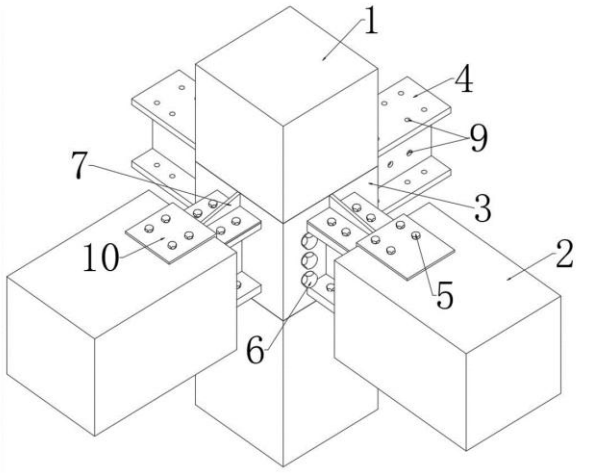
00: -

The invention discloses a real estate legal training system, which comprises a data entry equipment, a data calculator, a feature calculation equipment and a course database equipment; the data entry equipment is used to collect the historical learning data of the learners in the process of learning the legal course; the data calculator is used for preprocessing that historical learning data to obtain

preprocessed data; the feature calculation equipment is used for extracting the learning features in the preprocessed data; the course database equipment generates training courses based on learning features. The invention can significantly improve the personalized level of legal course training, and through the big data analysis technology, the teaching content and methods can be dynamically adjusted according to the specific situation of each learner, thus improving the learning efficiency and learning results. The invention can not only improve the quality and effect of legal education, but also promote educational equity and provide equal learning opportunities for learners with different backgrounds and abilities.

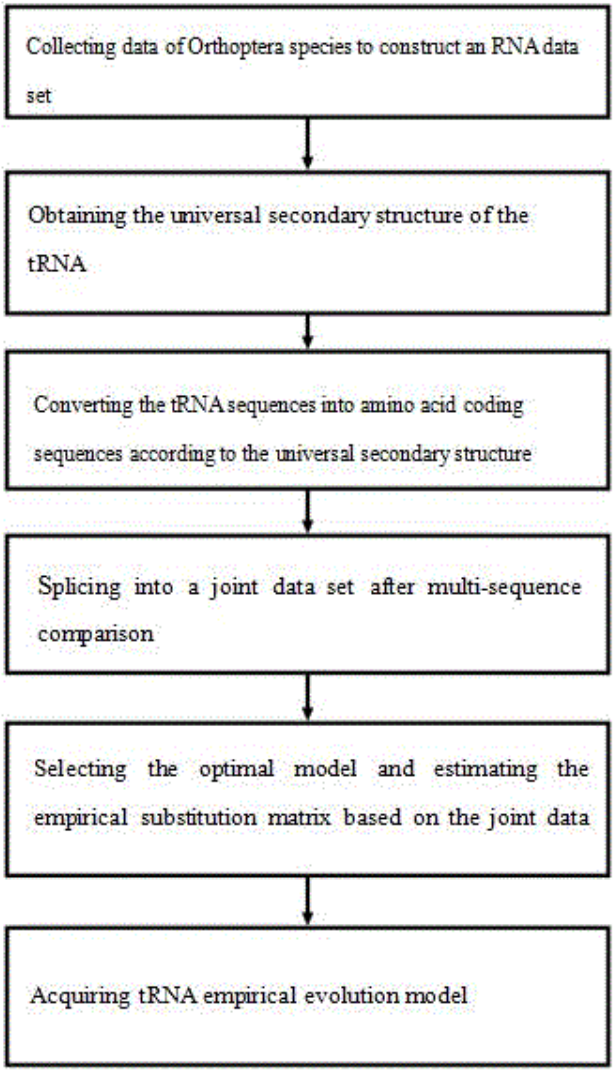



21: 2025/00178. 22: 2025/01/06. 43: 2025/07/21
51: E04B
71: Xinyu University
72: Zhang yuqing, Li jialin, Han lei, Ai chunhong, Wang chengyuan, Li zhen, Teng wenhao, Cui shengchao, Cai yunfang, Li jie, Fu siyong
33: CN 31: 2024230915704 32: 2024-12-16
**54: A NOVEL PREFABRICATED CONCRETE COLUMN-BEAM JOINT CONNECTION STRUCTURE**
00: -
This invention provides a novel prefabricated concrete column-beam joint connection structure, which includes: a concrete column and a concrete beam, where the concrete column is connected to the concrete beam. A steel sleeve is attached to the middle of the outer side of the concrete column. The steel sleeve is connected to steel sleeve corbels at the front, rear, left, and right sides. Multiple high-strength bolt reserve holes are evenly spaced on the steel sleeve corbels. The steel sleeve corbels are in an I-beam shape. The concrete beam has I-shaped reserve holes, through which the concrete beam is connected to the steel sleeve corbel. The top and bottom ends of the steel sleeve corbels are connected to the concrete beam through Z-shaped overlap plates and multiple high-strength bolts. A triangular rib plate is welded to the surface of the Z-shaped overlap plate near the steel sleeve. This novel prefabricated concrete column-beam joint connection structure addresses the issues with traditional connection methods. It has the advantages of reducing the possibility of uneven force distribution at the rebar connection points, providing better connection strength, and improving construction efficiency.




21: 2025/00179. 22: 2025/01/06. 43: 2025/07/21
51: G06N
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: CHANG Huihui, WU Miao, LU Guangyi, HOU Wenting, LIU Xinhu, XIE Zhaohui
**54: CONSTRUCTING METHOD OF TRNA EMPIRICAL EVOLUTION MODEL**
00: -
The invention relates to a constructing method of a tRNA empirical evolution model, which includes the following steps: collecting data of Orthoptera species

to construct an RNA data set; calibrating the secondary structure of the tRNA gene sequence in the RNA data set to obtain the universal secondary structure of the tRNA; converting the tRNA sequences into amino acid coding sequences according to the universal secondary structure, and splicing the amino acid coding sequence into a joint data set after multi-sequence comparison; based on the joint data set, the optimal model is selected and estimated, and the tRNA empirical evolution model is constructed. According to the invention, the secondary structure information of tRNA can be integrated into the empirical evolution model, and the blank of related research is filled.



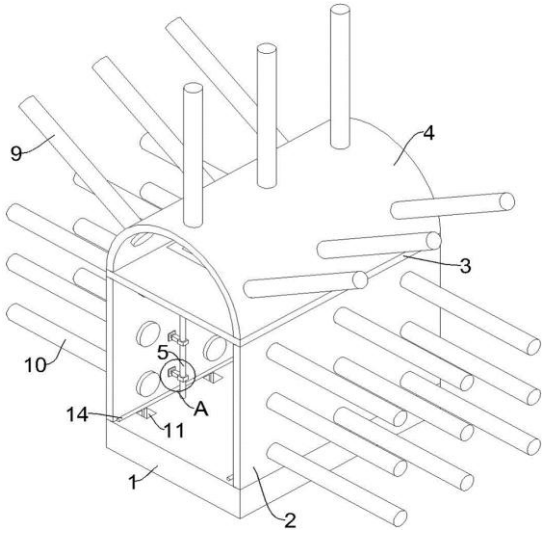

21: 2025/00214. 22: 2025/01/07. 43: 2025/07/21
51: E21F

71: Taiyuan University of Science and Technology
72: FU Yuping, HE Yongliang, LI Chuantian

**54: DEVICE FOR PREVENTING AND CONTROLLING UNDERGROUND ROADWAY FLOOR HEAVE IN COAL MINE**

00: -

The invention belongs to the technical field of underground roadway treatment in coal mines, in particular to a device for preventing and controlling underground roadway floor heave in coal mine, which comprises a bottom plate, where both sides of the top of the bottom plate are fixedly connected with side plates respectively, and both side plates are vertically arranged; the top ends of the two side plates are fixedly connected with a top plate; the top end of the top plate is fixedly connected with an arc plate; the arc plate is fixedly connected with the top wall of the roadway through a plurality of top wall anchor bolts; and the side plates are fixedly connected with the side walls of the roadway through a plurality of side wall anchor bolts. A plurality of stable brackets are arranged between the top plate and the arc plate, a plurality of support columns are arranged between the bottom plate and the top plate, each support column is provided with an adjusting support part, the top of the bottom plate is provided with a plurality of water storage tanks, each water storage tank is provided with a water pump, and a plurality of drainage parts are fixedly communicated with a confluence pipe together. The invention can achieve the purpose of controlling the floor heave of underground roadway in coal mine.

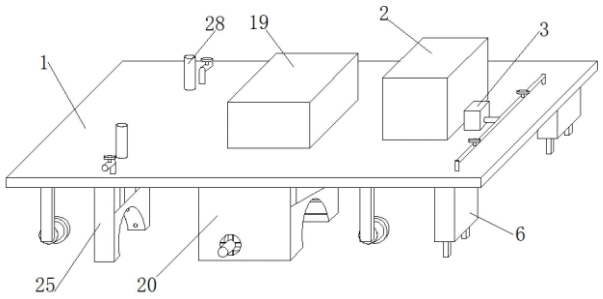


21: 2025/00216. 22: 2025/01/07. 43: 2025/07/21
51: B24B
71: Central South University, Guangzhou City Polytechnic, Guangzhou Metro Design & Research Institute Co., Ltd., China Railway Nanchang Bureau Group Co., Ltd., CHINA RAILWAY 12TH BUREAU GROUP CO., LTD.
72: HAN Marui, LI Peicheng, YE Mengxuan, WU Shuang, LI Ping, YIN Huatuo, WU Da, ZENG Zhiping, XU Chundong, REN Xuefei, FENG Ning, TANG Jie, YUAN Fanghua, QIN Biao, QI Xingzhe, DUAN Tingfa, CAI Fuhai

**54: A DEVICE FOR CLEANING AND OILING THE SURFACE RUST OF RAILS**

00: -

The invention discloses a device for cleaning and oiling the surface rust of rails, the top surface of a vehicle body is fixedly connected with a liquid storage tank, the liquid storage tube is connected with a main water tube through pressurization equipment, the main water tube is connected with a branch water tube through a male and female terminal, the outer wall of the female terminal is fixedly connected with a connecting frame, the outer wall of the male terminal is fixedly connected with a transverse plate, the bottom of the transverse plate is fixedly connected with a side plate, the top of the transverse plate is fixedly connected with a moving frame, and the moving frame is connected with a first motor through a gear, the middle part of the bottom surface of the vehicle body is fixedly connected with a first support frame, the inner wall of the bottom of the first support frame is fixedly connected with a reflector, the inner side of the reflector plate is provided with a heating tube, the rear part of the bottom surface of the vehicle body is fixedly connected with a second support frame, the upper part of the second support frame is fixedly connected with a sealing tube, the sealing tube is slidably connected with a piston, the top of the piston is fixedly connected with an electric push rod, the bottom of the sealing tube is fixedly connected with a second valve, and the inner side of the bottom of the second support frame is fixedly connected with a nozzle to automatically remove rust and dry.

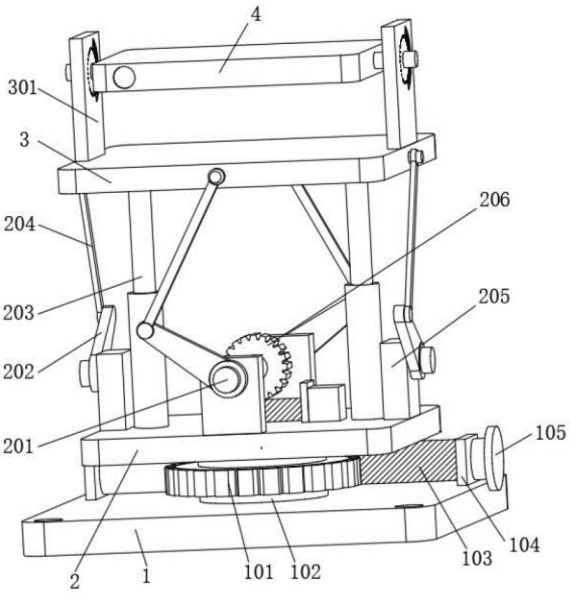



21: 2025/00217. 22: 2025/01/07. 43: 2025/07/21
51: G03B
71: Huainan Normal University, Anhui University
72: Bai Ruiping, Li Qingping, Liu Yuxin

**54: A LIFTABLE PROJECTION DEVICE FOR ONLINE TEACHING**

00: -

The invention provides a liftable projection device for online teaching, comprising a base plate, where installation holes are provided at all four corners above the base plate. A first rotating shaft is rotatably connected at the center of the upper part of the base plate. A rotating seat is fixedly connected to the top of the first rotating shaft, and fixed blocks are fixedly connected to all four corners above the rotating seat. A second rotating shaft is rotatably connected inside one of the fixed blocks. The invention utilizes a second worm gear, second worm wheel, motor, rotating rod, and linkage rod to perform the lifting and lowering adjustment of the entire projection device. The worm wheel and worm at the bottom achieve the horizontal angle adjustment of the device, while the gears above work with the rack inside the arc-shaped slot to achieve the pitch adjustment of the projection component. The entire projection device integrates horizontal, pitch, and height adjustments, providing convenience for online teaching staff. Additionally, the entire device is easy to adjust and operate, significantly reducing the difficulty of operation for teaching staff and improving teaching efficiency.

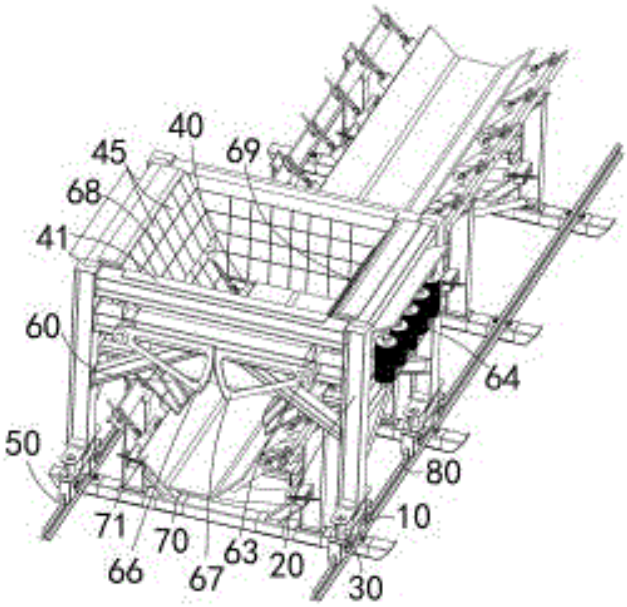



21: 2025/00218. 22: 2025/01/07. 43: 2025/07/21
51: B01D
71: Ningxia Tiandi Northwest Coal Machinery Co. , Ltd.
72: WANG Zhangui, ZHANG Fenyou, LIU Zengjie, WU Tao, ZHANG Ruizheng, ZHOU Hailin, MA Yupeng, MA Liwei, MA Zhao, TIAN Yanjun, WANG Pengcheng, CHEN Hao

**54: MOBILE MULTI-POINT RECEIVING EQUIPMENT**

00: -

The mobile multi-point receiving device is equipped with a walking mechanism of the normally closed structure brake structure to move with the conveyor track, which meets the requirements of multi-point receiving. The front receiving plate, the back receiving plate, the first left receiving plate, the first right receiving plate, the second left receiving plate and the second right receiving plate are equipped with splicing wear-resistant plates, which can withstand the impact of large and hard materials on the receiving equipment and is convenient to replace; The front receiving plate, the back receiving plate, the first left receiving plate and the first right receiving plate are in a longitudinal funnel-shaped structure, and the second left receiving plate and the second right receiving plate are in a horn closing mode along the running direction of the conveyor belt, which can effectively buffer and dredging materials and avoid damage to the conveyor belt. Elastic parts are installed between the walking mechanism and the skip frame body as a first-level buffer. At the same time, in order to further avoid damage to the conveyor belt, the second left receiving plate and the second right receiving plate are subjected to the heavy hammer assembly and the first metal spring torque to form a secondary buffer of the relative open and closed structure.



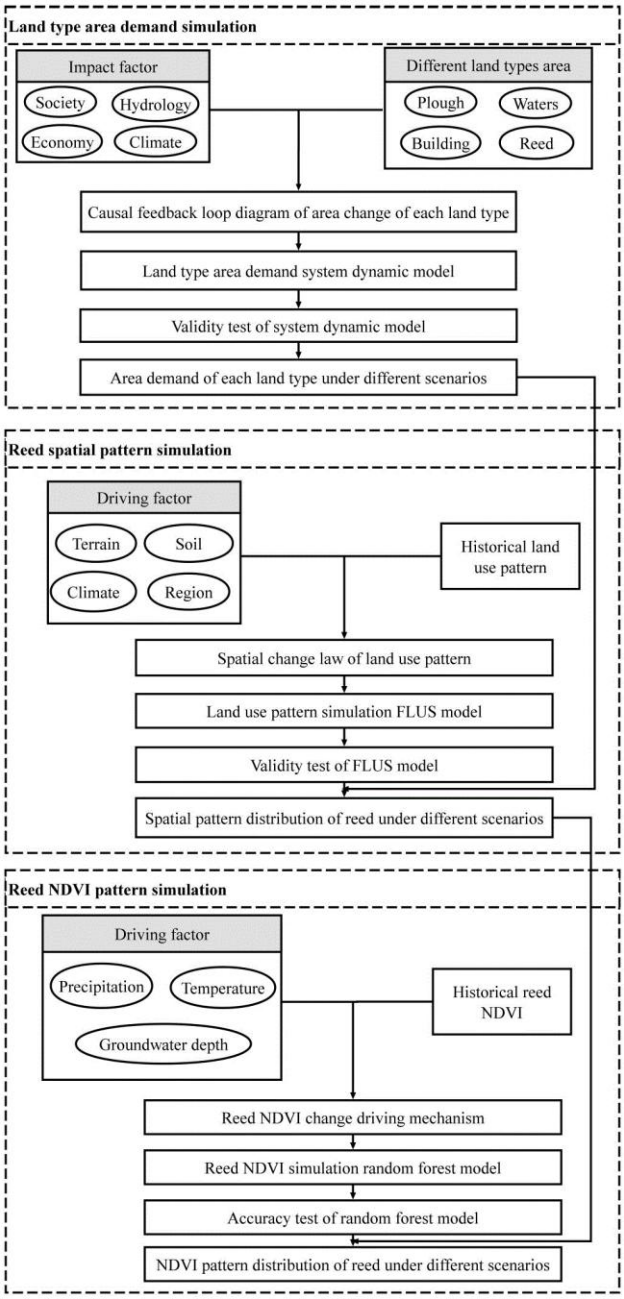

21: 2025/00219. 22: 2025/01/07. 43: 2025/07/21
51: G06F
71: BEIJING NORMAL UNIVERSITY
72: WANG Xuan, LIAO Zhenmei, ZHANG Yunlong, YAN Shengjun, LI Chunhui, LIU Qiang, CAI Yanpeng

**54: SIMULATION AND PREDICTION METHOD FOR REGIONAL NORMALIZED DIFFERENCE VEGETATION INDEX PATTERN OF REED BASED ON DUAL-DRIVE ANALYSIS**

00: -

The invention relates to the technical field of vegetation pattern simulation and regulation, and particularly discloses a simulation and prediction method for regional normalized difference vegetation index pattern of reed based on dual-drive analysis. The invention considers the influences of social factors such as policy planning, social development and land evolution on reed macro-pattern distribution, and also considers the influences of natural conditions on reed micro-pattern distribution. By combining the driving effects of natural factors and social factors, the simulation of multi-scenario schemes is realized at the same time, which overcomes the limitation that traditional methods

only consider natural driving effects and limited simulation schemes.

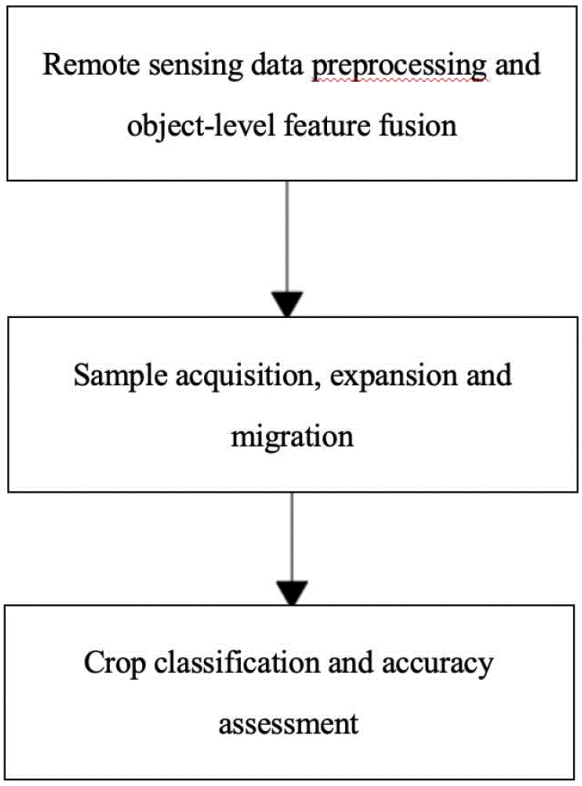



21: 2025/00220. 22: 2025/01/07. 43: 2025/07/21
51: G06Q
71: Henan University of Urban Construction
72: JIANG, Yongtao, WANG, Limei, LU, Chunyang, QU, Qianlong, ZHANG, Caili, LU, Kun, DING, Leixiang, YANG, Yun

**54: A LONG-TERM SEQUENCE CROP DYNAMIC MAPPING METHOD BASED ON SYNERGISTIC ACTIVE-PASSIVE REMOTE SENSING**

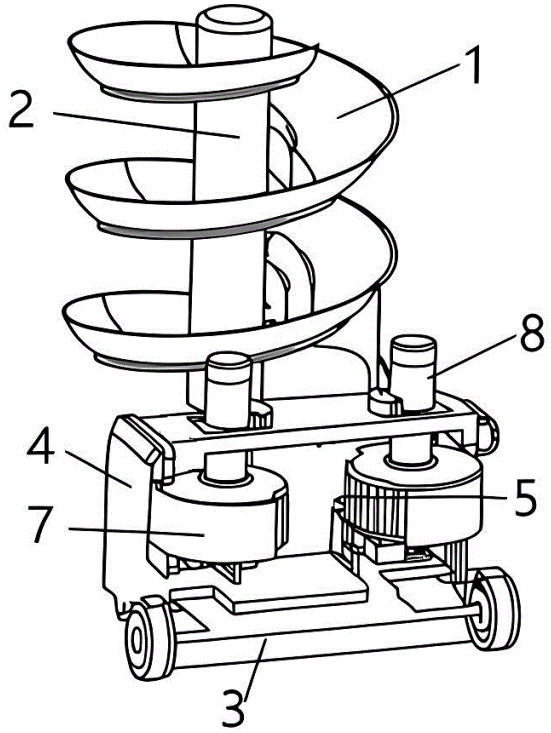
00: -

The invention provides a long-time series crop dynamic mapping method based on synergistic active and passive remote sensing, including the following steps: S1. Remote sensing data preprocessing and object-level feature fusion; S2. Sample acquisition, expansion, and migration; S3. Crop classification and accuracy assessment module. By combining active and passive remote sensing data for synergistic utilization, this invention proposes a long-time series crop dynamic mapping method that effectively addresses data differences in cross-temporal and cross-regional crop monitoring. It uses Sentinel-2 optical images and Sentinel-1 SAR data for remote sensing data preprocessing, improving data quality. The method utilizes the GEE platform for monthly synthesis of multi-temporal remote sensing images. Through these multi-source and multi-temporal remote sensing data, the method significantly improves the accuracy of crop time-series feature extraction, laying a solid foundation for subsequent sample acquisition and classification.



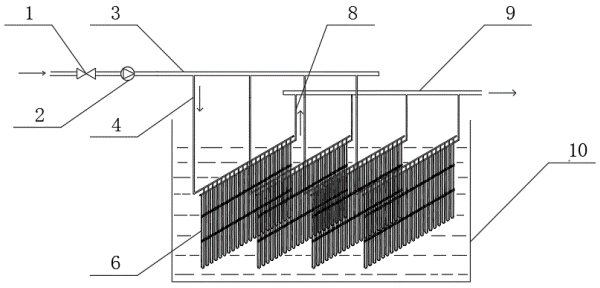

21: 2025/00221. 22: 2025/01/07. 43: 2025/07/21
51: A63B

71: Henan University of Urban Construction
72: JIANG Chen, ZHANG Wei, LI Che
**54: SPORTS BALL TRAINER**
00: -
The invention relates to the technical field of sports equipment, and discloses a sports ball trainer, which comprises a spiral fairway, where the spiral fairway is fixedly installed on a base; two serve pieces, wherein the two serve pieces are positioned below the spiral fairway, the tail ends of the spiral fairway are abutted with the outer sides of the two serve pieces, and a gap is arranged between the two serve pieces, the size of the gap is matched with the diameter of the sphere, and the serve pieces are installed on the base. In this device, a spiral fairway is arranged for placing balls, and a plurality of balls are placed in the spiral fairway, so that the times of picking up balls manually are reduced, and manpower and time are saved; serve pieces are arranged below the spiral fairway, and there is a gap between the two serve pieces; the balls enter the serve pieces through the spiral fairway and are emitted through the gap between the two serve pieces under the action of the serve pieces, and the power of each serve piece is set to be consistent, so that the direction and strength of each service are consistent, which is convenient for trainers to repeat many exercises.




21: 2025/00222. 22: 2025/01/07. 43: 2025/07/21
51: F24D
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: YU Tingting, FU Haoka, CHEN Haiyan, JIN Junjie, ZHANG Peilu, XU Hongbin
**54: CAPILLARY REFRIGERATION AIR CONDITIONING SYSTEM FOR SHALLOW WATER WELLS**
00: -
The invention belongs to the technical field of air conditioning refrigeration, in particular to a capillary refrigeration air conditioning system for shallow water wells, which comprises a shallow water well heat exchange module, an air heat exchange module and a power transmission device for providing flowing power for liquids in the shallow water well heat exchange module and the air heat exchange module; the shallow water well heat exchange module comprises a first capillary network heat exchange unit arranged in the shallow water well; the air heat exchange module comprises an air channel, an air induction unit arranged at the air inlet end of the air channel, and a second capillary network heat exchange unit arranged in the air channel; the water inlet end of the first capillary network heat exchange unit is connected with the

water outlet end of the second capillary network heat exchange unit through the backwater main pipe, and the water outlet end of the first capillary network heat exchange unit is connected with the water inlet end of the second capillary network heat exchange unit through the water supply main pipe. The invention can achieve the purpose of refrigeration under the condition of extremely low energy consumption.

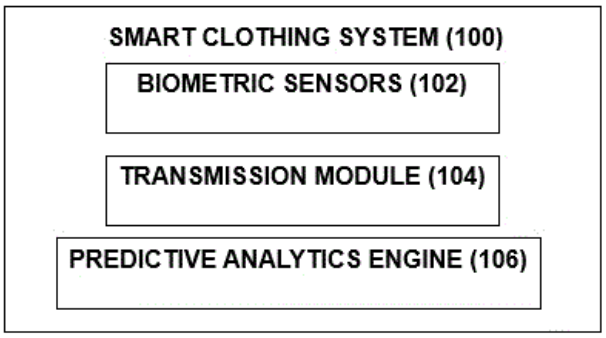



21: 2025/00229. 22: 2025/01/07. 43: 2025/07/10
51: A63B
71: Dr. Sinku Kumar Singh, Dr. Vikram Shankarrao Kunturwar, Ramakant Dnyanobarao Bansode, Dr. Jaibhagwan Singh Goun, Dr. Anand Namdeorao Wankhede
72: Dr. Sinku Kumar Singh, Dr. Vikram Shankarrao Kunturwar, Ramakant Dnyanobarao Bansode, Dr. Jaibhagwan Singh Goun, Dr. Anand Namdeorao Wankhede

**54: SMART CLOTHING WITH INTEGRATED PREDICTIVE ANALYTICS FOR ATHLETE HEALTH MONITORING AND INJURY PREVENTION**

00: -

The proposed invention operates by integrating advanced biometric sensors directly into the fabric of the smart clothing. These sensors, including EMG sensors, thermal sensors, and motion sensors, are carefully positioned to ensure accurate data collection from critical muscle groups and body areas. The clothing material is engineered for flexibility and durability, allowing athletes to perform unrestricted movements during training and competitions while ensuring continuous data monitoring.

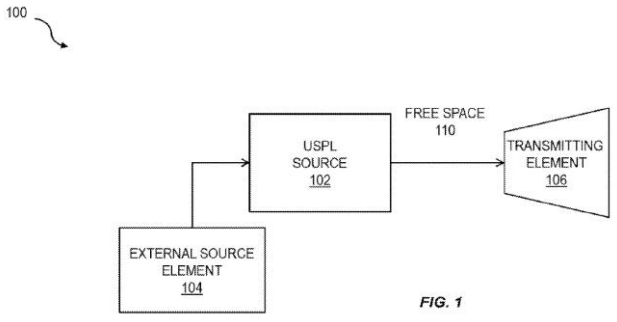



21: 2025/00238. 22: 2025/01/07. 43: 2025/07/10
51: H04B
71: ATTOCHRON, LLC
72: CHAFFEE, Thomas M., KNOX, Wayne H., LEBON, Alexander B., GREGORY, Brian M., COLANGELO, Taz M.
33: US 31: 17/932,364 32: 2022-09-15

**54: REDUCING SCINTILLATION NOISE IN FREE SPACE OPTICAL COMMUNICATIONS**

00: -

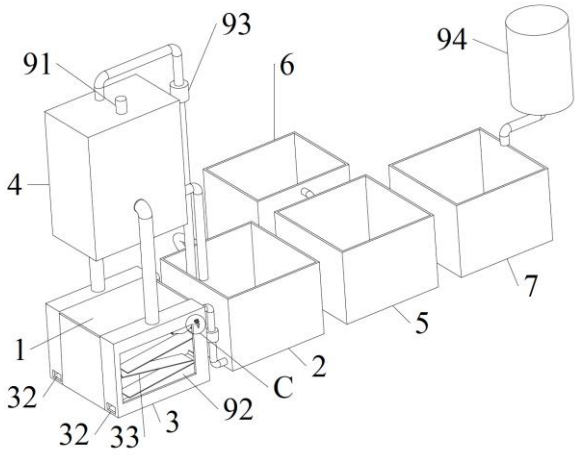
In some embodiments, an optical communication system may include an optical source, a modulator, and a photoreceiver. The optical source may be configured to generate a beam comprising a series of light pulses. The photoreceiver may have a detection window duration of 1 nanosecond or less. When a first pulse travels through a variably refractive medium, photons in the first pulse may be refracted to travel along different ray paths to arrive at the photoreceiver according to a temporal distribution curve. A full width at half maximum (FWHM) value of the temporal distribution curve may be greater than a coherence time value of the first pulse, and the detection window of the photoreceiver may be greater than the FWHM value of the temporal distribution curve.



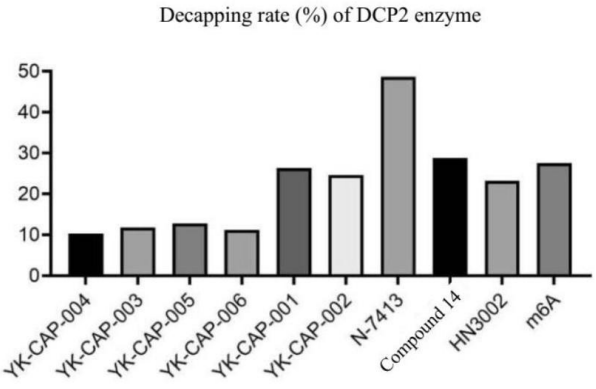

21: 2025/00252. 22: 2025/01/07. 43: 2025/07/21
51: A01N; C07C; A01P

71: NINGXIA HUGERISE CHEMICAL CO., LTD.
72: HAO, Liyong, GUO, Chuanlei, XU, Kun, YIN, Cuiping
33: CN 31: 202311774550.4 32: 2023-12-21
**54: USE OF SULFOXAMYL, PREPARATION METHOD THEREFOR, AND OXIDATION SYSTEM**
00: -
Provided are use and a preparation method of sulfoxamyl, and an oxidation system, belonging to the technical field of pesticides. Provided is use of sulfoxamyl in killing nematodes. The sulfoxamyl shows an excellent killing activity against the nematodes as well as a desirable inhibitory effect on nematode eggs. Provided is an oxidation system for oxidizing a sulfur group in oxamyl and oxamyl oxime into a sulfone group. The oxidation system adopts hydrogen peroxide as an oxidant, which is safer, less explosive, and less expensive than peracetic acid; further, carboxylic acid or an aqueous solution of the carboxylic acid is used as a reaction medium, which is safer and more environmental-friendly than organic solvents. Moreover, the oxidation system can increase an oxidation rate and shorten a reaction time. Moreover, the method shows the advantages of rapid oxidation, shortened reaction time, and high yield.

21: 2025/00253. 22: 2025/01/07. 43: 2025/07/25
51: C21D
71: Tangshan Hongli Tool Manufacturing Co., Ltd
72: Tang Na, Pang Jianna, Pang Jianchun, Chen Jianliang
33: CN 31: 2024105499325 32: 2024-05-06
**54: A QUENCHING AGENT CLEANING SYSTEM**
00: -
This invention relates to the field of quenching agent cleaning technology and proposes a quenching agent cleaning system, which includes a quenching tank, a primary cleaning tank, and a quenching agent recovery box located next to the quenching tank. The quenching agent recovery box is connected to the primary cleaning tank via a pipeline, and the recovery box has a steam outlet and a quenching agent outlet. Through this technical solution, the problems of excessive pollutant discharge and quenching agent waste during workpiece quenching in the prior art are addressed.




21: 2025/00267. 22: 2025/01/08. 43: 2025/07/10
51: A61K; C07H; C12P
71: HANGZHOU TIANLONG PHARMACEUTICAL CO., LTD.
72: SONG, Gengshen, ZHANG, Honglei, LIU, Yangjian, DONG, Kai, ZHANG, Jinyu, GAO, Chuan, JIN, Lijie, LI, Yuqing, HUANG, Huajie, LI, Yanfen, LIANG, Limin, YU, Xiaowen, HUANG, Dawei
33: CN 31: 2024100260290 32: 2024-01-09
**54: C6'-SUBSTITUTED LOCKED NUCLEIC ACID-MODIFIED CAP ANALOG AND USE THEREOF**
00: -
The present disclosure provides a C6'-substituted locked nucleic acid-modified cap analog and a use thereof, wherein the cap analog improves the stability of mRNA and/or the translation efficiency of mRNA.

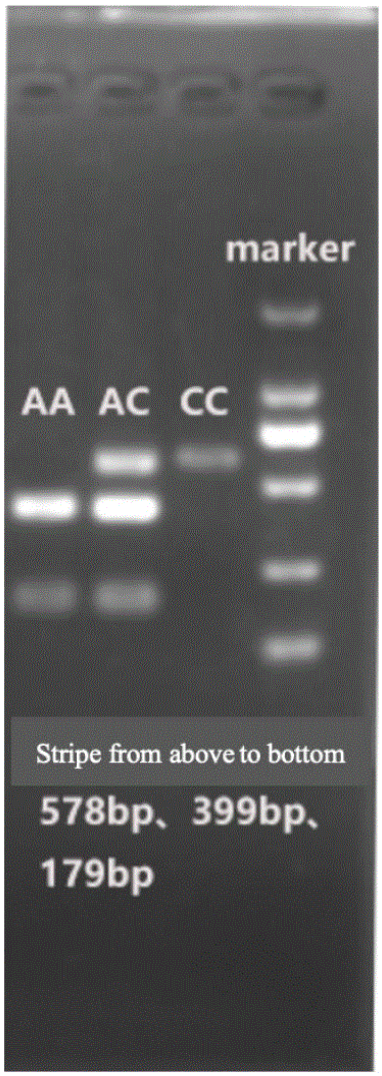



21: 2025/00278. 22: 2025/01/08. 43: 2025/07/21
51: C12Q
71: China Agricultural University
72: Fang Meiying, He Shuaihan, Wang Yubei, Tang Qiguo, Luo Yabiao, Chan Shuheng, Xue Mingming
33: CN 31: 2022108762474 32: 2022-07-25

**54: SNP MOLECULAR MARKERS ASSOCIATED WITH INTRAMUSCULAR FAT TRAITS IN PIGS, AS WELL AS THEIR APPLICATIONS AND DETECTION METHODS**

00: -

This invention relates to the field of molecular genetics, specifically to SNP molecular markers associated with intramuscular fat traits in pigs, as well as their applications and detection methods. The invention identifies an SNP locus at base 12726 of the intron region of the DKK2 gene or base 114874954 of pig chromosome 8 (A-C). The allele A is positively correlated with lower intramuscular fat traits, while allele C is positively correlated with higher intramuscular fat traits. The invention provides methods and kits for detecting this SNP molecular marker. If the digestion products are two bands, the base at the mutation site is A; if the digestion product is one band, the base at the mutation site is C. This method allows early, rapid, cost-effective, and efficient prediction of intramuscular fat content in pigs and can be used as a molecular marker for genetic improvement of pig breeds. It has broad application and market prospects in pig breed improvement, and the kit developed for this invention offers substantial economic and social benefits.



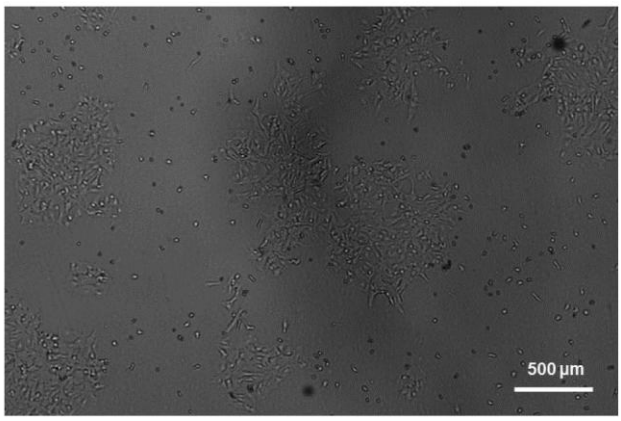

21: 2025/00303. 22: 2025/01/09. 43: 2025/07/21
51: C12N
71: Qingdao University
72: Xiao XU, Wenhua XU, Quan TIAN, Xiaomin WANG, Yan TANG, Liang ZHANG, Dan HAN
33: CN 31: 2024114147700 32: 2024-10-11

**54: AN ISOLATION AND CULTURE METHOD AND APPLICATION FOR PORCINE ENDOMETRIAL MESENCHYMAL STEM CELLS**

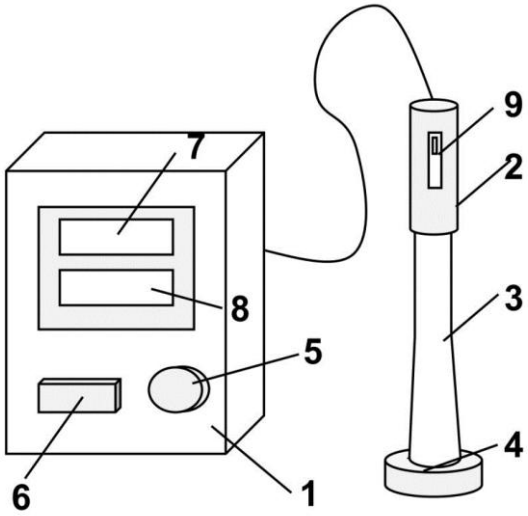
00: -

The present invention belongs to the field of cell biology and regenerative medicine technology, which specifically relates to an isolation and culture method and application for porcine endometrial mesenchymal stem cells (eMSCs), the present invention is isolated from the uterine tissue of large animals: pigs, the steps are simple and the amount of cells is large, and the cultured eMSCs have

phenotypes of CD34-, CD11b-, CD44 +, and CD105 +, in vitro, they can be induced to differentiate into osteocytes, adipocytes, and chondrocytes; during culture, collagenase II and DNase I are used in combination to decompose collagen in the extracellular matrix, degrade DNA, and reduce cell aggregation, and jointly promote effective digestion of tissues, thereby obtaining high-quality single cell suspension; when applied, it can repair cells such as intrauterine adhesions, skin and vascular injury the repair method is simple and easy, and it can be regenerated and repaired by implanting it into the lesion site with biomaterials, which provides a new way for cell transplantation therapy.

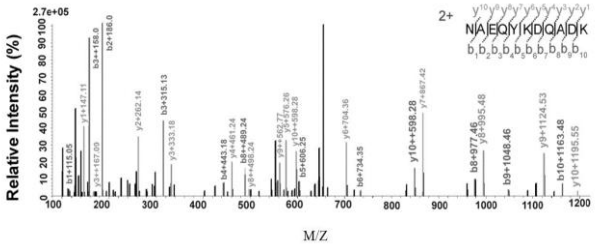



21: 2025/00304. 22: 2025/01/09. 43: 2025/07/21
51: G09B
71: Qingdao University
72: Xiaomin WANG, Wenhua XU, Yan TANG, Xin MA, Xiaoying KONG, Dan HAN, Liang ZHANG, Xiao XU, Junlin LYV, Nailong PAN, Mengyu ZHANG
33: CN 31: 2024113546690 32: 2024-09-27
**54: A STANDARDIZED DEVICE FOR ANIMAL SKIN BURN MODELING**
00: -
The present invention relates to the field of burn and scald experimental technology, and relates to a standardized device for animal skin burn modeling, the main structure comprises a host 1 and a handle 2 connected to the host 1, and a metal sheet 4 connected to the handle 2 through a metal rod 3, and the metal rod 3 and the metal sheet 4 are configured to be detachably connected, the host 1 has at least a temperature regulating knob 5 and a switch button 6 and a temperature display screen 7 and a pressure display screen 8, the handle 2 has at least a pressure regulating push rod 9, and at least a heating wire, an insulation layer, a pressure sensor and a spring are arranged inside, the present invention can control the degree of burn by adjusting the temperature and pressure and shortening the contact time, so as to realize the first-degree burn or shallow second-degree burn, and can also adjust the shape and size of the metal sheet to perform burn modeling on animals such as mice or rats, particularly to prepare the deep second-degree burn model, and can also ensure the safety of personnel, animals and equipment in the experimental process through measures such as overheating protection and emergency shutdown, and can be widely used in many fields of basic medicine, such as preclinical drug screening, therapeutic method evaluation, and analysis of the pathological mechanism of burn.




21: 2025/00305. 22: 2025/01/09. 43: 2025/07/21
51: G01N
71: Qingdao University
72: Yan TANG, Wenhua XU, Xiaomin WANG, Xin MA, Mengyu ZHANG, Xiaoying KONG, Shengjie LIU, Liang ZHANG, Dan HAN
33: CN 31: 2024112734476 32: 2024-09-12
**54: A NEW APPLICATION FOR PIR-HSA-164586 AND MYH9**
00: -
The present invention belongs to the field of biomedical technology, and specifically relates to a new application for piR-hsa-164586 and MYH9, based on the interaction between piR-hsa-164586 and MYH9: piR-hsa-164586 regulates the expression of MYH9 and promotes the metastasis of NSCLC, piR-hsa-164586 and MYH9 can be used as

a therapeutic target for NSCLC, and have become a potential therapeutic drug, wherein the MYH9 is obtained by RNA pulldown assay and verified by protein mass spectrometry, molecular docking and RIP assays, the piR-hsa-164586 can positively regulate the expression of MYH9, and verified by performed qRT-PCR, western blotting and tissue immunofluorescence staining assays on the piR-hsa-164586 NC group, piR-hsa-164586 KD group, and piR-hsa-164586 OE group. The interaction between piR-hsa-164586 and MYH9 can up-regulate the expression of MYH9 in NSCLC cell lines, the verification experiment process was confirmed by Transwell experiment after knockdown of piR-hsa-164586 and MYH9 respectively.

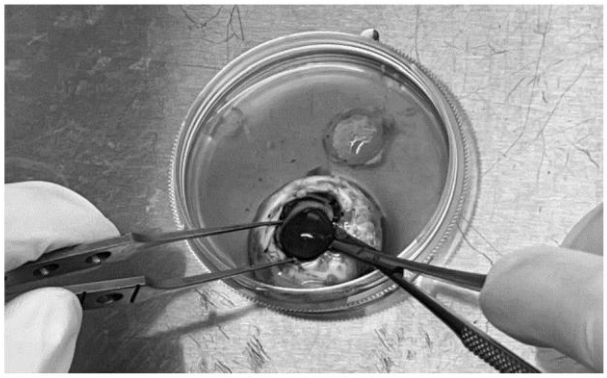



21: 2025/00306. 22: 2025/01/09. 43: 2025/07/21
51: C12N
71: Qingdao University
72: Zhen SHANG, Wenhua XU, Xiaoying KONG, Dan HAN, Liang ZHANG, Nailong PAN, Xiaomin WANG, Shan YANG, Junlin LYU, Xiaotong LI
33: CN 31: 2024116868234 32: 2024-11-25

**54: CULTURE METHOD AND APPLICATION FOR PORCINE LIMBAL EPITHELIAL STEM CELLS**

00: -

The invention belongs to the field of cell biology and regenerative medicine technology, which specifically relates to a culture method and application for porcine limbal epithelial stem cells, during culture, the cells are pretreated first, then coated with culture dishes, centrifuged, cultured and passaged, and identified by immunofluorescence staining, it can be applied to the repair of corneal diseases including limbal stem cell deficiency, during repair, it can be combined with biological materials to form a stem cell engineering carrier and implanted into the injured site, the method of separation and culture is simple and the amount of cells obtained is large, it is suitable for separation from the eyeballs of large animals-pigs, limbal epithelial stem cells cultured in vitro can form cell clusters, which is called stem cell islands, the obtained limbal epithelial stem cells include phenotypes of BMI1+ and (delta)Np63(alpha)+, and CK14+ and ABCG2+, based on experimental research and clinical research, it can provide a new way for cell transplantation.



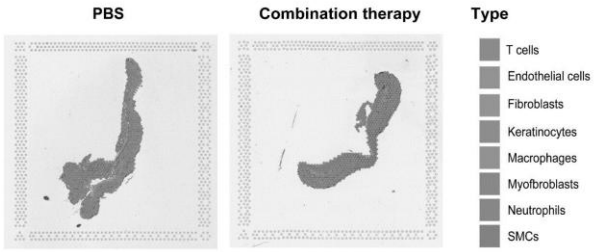
21: 2025/00309. 22: 2025/01/09. 43: 2025/07/21
51: C12N
71: Qingdao University
72: Xiaomin WANG, Wenhua XU, Jiaxu SONG, Yan TANG, Xiaoying KONG, Dan HAN, Liang ZHANG, Yiwei XU, Zhen SHANG, Chongwang WANG
33: CN 31: 2024114871213 32: 2024-10-24

**54: ANALYSIS METHOD OF SPATIAL TRANSCRIPTOME-BASED 4D-PRINTED STEM CELL SCAFFOLD FOR IMPROVING DIABETIC SKIN INJURY**

00: -

The invention belongs to the field of bioinformatics technology, and specifically relates to an analysis method of a spatial transcriptome-based 4D-printed stem cell scaffold for improving diabetic skin injury, firstly, the spatial transcriptome sequencing is performed on the tissues of the PBS group and the combined treatment group, respectively; then, cell clustering and cell annotation were performed, after identifying the main cell types, the spatial distributions of the two groups of cell types are visualized, and the proportions of various cell types are statistically quantified and plotted; finally, the cell subsets with significant differential genes are enriched and verified. Through 4D-printed stem cell scaffold combined with piRNA inhibitor and stem cell combination therapy, it shows the spatial distribution and dynamic changes of cells during wound healing and reveals the precise location and gene expression pattern of cells in tissues, it is very important to understand the complex biological

process of biomaterials in promoting the healing of diabetic injury. At the same time, it can provide new ideas for subsequent drug development.

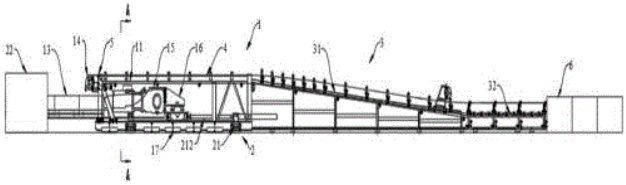



21: 2025/00310. 22: 2025/01/09. 43: 2025/07/21
51: G01N
71: Ningxia Tiandi Northwest Coal Machinery Co., Ltd., National Energy Group Ningxia Coal Industry Co., Ltd.
72: WANG Ning, LAN Chunsen, HAN Fangjun, CAI Ruikun, MA Yue, YANG Hai, TONG Jianzhong, WANG Hao, YANG Ping, MA Yupeng, MIAO Jing, WANG Xinghong, MA Liwei

**54: UNLOADING DEVICE WITH SYNCHRONOUS CONTROL OF NON-STOP BACKFILLING AND WORKING FACE PROPULSION AND METHOD**

00: -

The invention discloses an unloading device with synchronous control of non-stop backfilling and working face propulsion and a method, which comprises an unloading mechanism for self-unloading, a power mechanism for controlling the movement of the self-unloading mechanism, a feeding part for conveying gangue and a traction mechanism for assisting the power mechanism; the unloading mechanism comprises a main frame, the main frame is provided with an unloading platform, and the unloading platform is slidably provided with a scraper, and one side of the power part of the scraper facing away from the scraper is fixedly connected with a mobile trolley which is slidably connected with the main frame; the power mechanism includes a forward power part for controlling the movement of the main frame, and a propulsion power part arranged at one end of the scraper far away from the unloading mechanism and controlling the movement of the scraper; the traction mechanism comprises a transition part fixedly arranged at one end of the main frame far away from the scraper, and a telescopic fuselage is arranged at one end of the transition part far away from the main frame, and the unit fuselage is connected with the unit fuselage. The invention realizes the non-stop backfill transportation of gangue by pushing the working face of the self-moving unloading device for 3 meters.

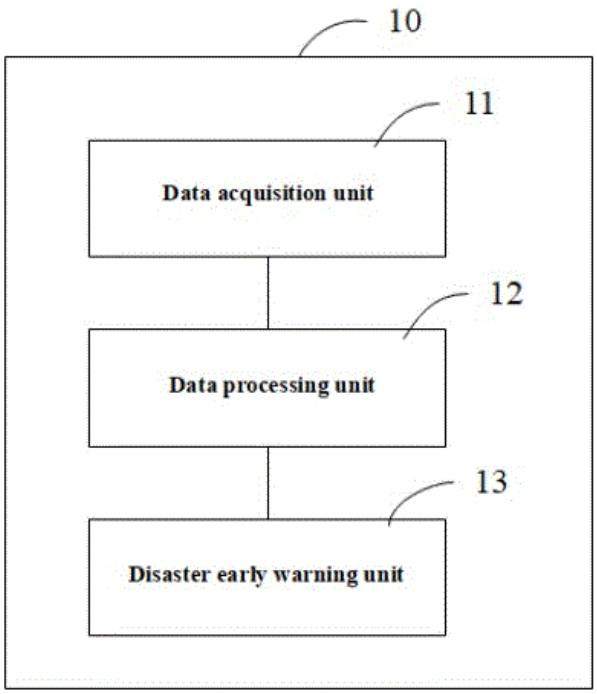


21: 2025/00314. 22: 2025/01/09. 43: 2025/07/21
51: E21F
71: Henan University of Urban Construction
72: WANG Yong, TIAN Junfeng, JIANG Zhongfeng, WU Li, LIANG Feng, ZHANG Peixin, LI Songfeng, DONG Wenchao, LI Shuaiqi, WANG Jin

**54: EARLY WARNING SYSTEM AND METHOD FOR MONITORING MINE GEOLOGICAL DISASTERS**

00: -

The present application provides an early warning system and method for monitoring mine geological disasters, including a data acquisition unit for collecting geological data in a mine monitoring area; a data processing unit for processing geological data to obtain input data; a disaster early warning unit for inputting the input data into a preset geological disaster monitoring model, obtaining monitoring results determined by the geological disaster monitoring model based on the input data, and determining whether to issue an early warning based on the monitoring results. By fusing the common surface displacement data and seismic waveform data, the gas content data, temperature data, humidity data, and groundwater level data are fused in the time dimension, and then the first fusion data and the second fusion data are secondary fused based on the sampling points to form input data, thereby reducing the difficulty of fusion, realizing data fusion analysis, and realizing early warning of mining geological disasters more accurately, effectively and in real time.

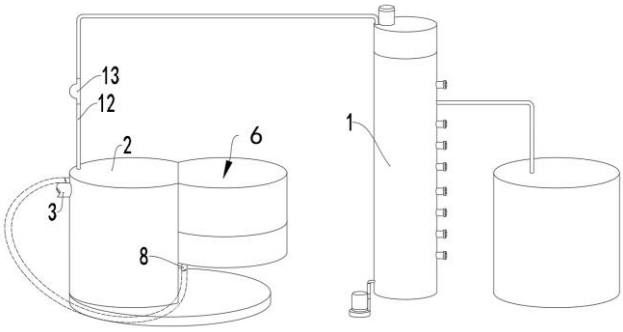



21: 2025/00315. 22: 2025/01/09. 43: 2025/07/21
51: C02F
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: WANG Le, WANG Linpei, LI Songya, GENG Yanxiang, WU Junfeng

**54: AEROBIC GRANULAR SLUDGE REACTOR FOR DOMESTIC SEWAGE PRETREATMENT WITH IMPURITIES**

00: -

The invention discloses an aerobic granular sludge reactor for domestic sewage pretreatment with impurities, comprising: continuous reactor body, inlet water tank, drain water tank, water pump and two connecting pipes, the continuous reactor body and the inlet water tank are connected through a connecting pipe and a water pump, the continuous reactor body is connected with the drain water tank through a connecting pipe, the water pump and the connecting pipe transport the sewage into the inlet water tank into the continuous reactor body for sewage treatment. The improved aerobic granular sludge reactor can directly inject sewage into the water tank when in use, and the device can continuously inject sewage into the water tank for solid-liquid separation in time, so as to prevent impurities from mixing with sewage, greatly reduce the amount of impurities in the sewage dissolution, and make impurities do not enter the reactor. Thus, the influence of impurities on the use of aerobic granular sludge is greatly reduced, and the device is small and easy to use.




21: 2025/00322. 22: 2025/01/09. 43: 2025/07/22
51: G06T
71: ILLUMINA, INC.
72: OJARD, Eric Jon, MEHIO, Rami, PARNABY, Gavin Derek, UDPA, Nitin, VIECELI, John S.
33: US 31: 63/020,449 32: 2020-05-05
33: US 31: 17/308,035 32: 2021-05-04

**54: EQUALIZATION-BASED IMAGE PROCESSING AND SPATIAL CROSSTALK ATTENUATOR**

00: -

The technology disclosed attenuates spatial crosstalk from sequencing images for base calling. In particular, the technology disclosed accesses an image whose pixels depict intensity emissions from a target cluster and intensity emissions from additional adjacent clusters. The pixels include a center pixel that contains a center of the target cluster. Each pixel in the pixels is divisible into a plurality of subpixels. Depending upon a particular subpixel, in a plurality of subpixels of the center pixel, which contains the center of the target cluster, the technology disclosed selects, from a bank of subpixel lookup tables, a subpixel lookup table that corresponds to the particular subpixel. The selected subpixel lookup table contains pixel coefficients that are configured to maximizes a signal-to-noise ratio. The technology disclosed element-wise multiplies the pixel coefficients with the pixels and determines a weighted sum.

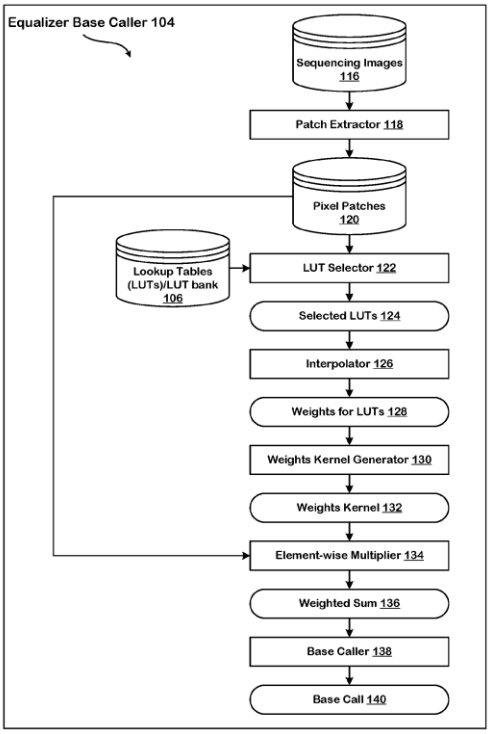
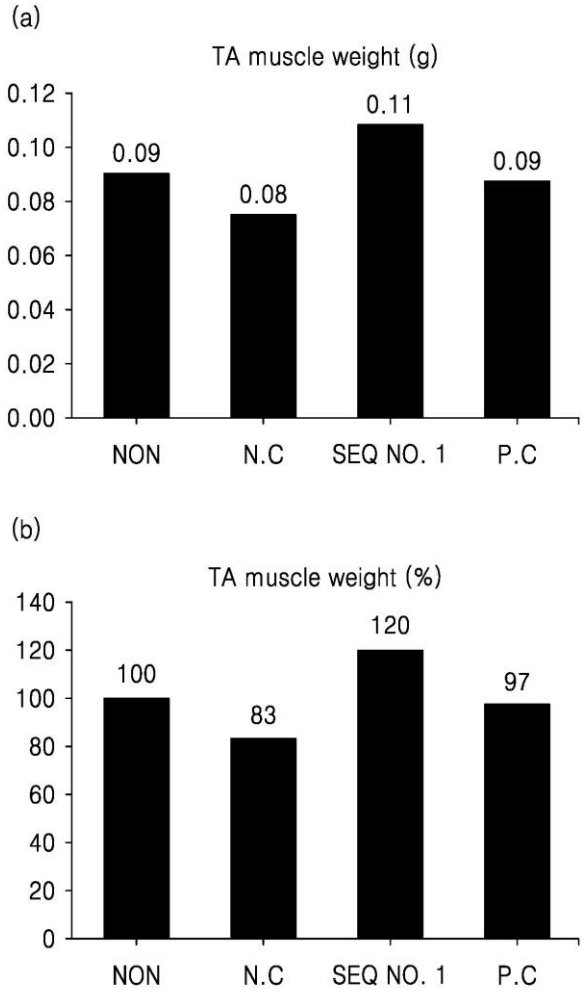


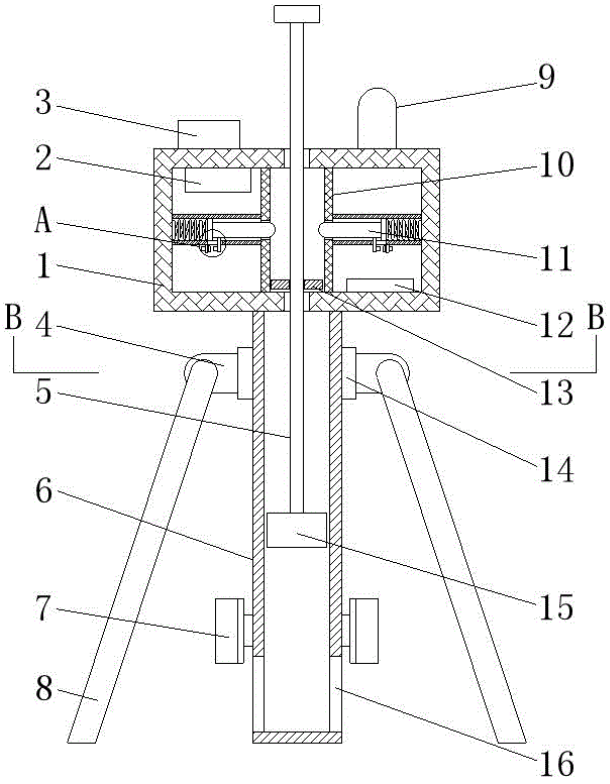
Figure 1B

21: 2025/00328. 22: 2025/01/09. 43: 2025/07/11
51: A23L; A61K; C07K; A61P
71: CAREGEN CO., LTD.
72: CHUNG, Yong Ji, KIM, Eun Mi, KIM, Seon Soo
33: KR 31: 10-2022-0071033 32: 2022-06-10
**54: PEPTIDE EXHIBITING MUSCLE LOSS PREVENTION AND MUSCLE MASS PROMOTION ACTIVITIES, AND USE THEREOF**
00: -
The present application relates to a peptide exhibiting muscle loss prevention and muscle mass promotion activities, and use thereof, and provides: a peptide consisting of an amino acid sequence of SEQ ID NO: 1; a pharmaceutical composition for preventing or treating a muscle disease, comprising the peptide as an active ingredient; and a food composition for preventing or ameliorating a muscle disease, comprising the peptide as an active ingredient.




21: 2025/00363. 22: 2025/01/10. 43: 2025/07/25
51: E21F
71: Henan University of Urban Construction
72: WANG Yong, ZHANG Peixin, JIANG Zhongfeng, WU Li, LIANG Feng, TIAN Junfeng, LI Songfeng, DONG Wenchao, JI Yajuan, WANG Wanlu
**54: WATER LEVEL ALARM DEVICE FOR EARLY WARNING OF COAL MINE WATER DISASTERS**
00: -
The invention relates to the technical field of water level monitoring, and discloses a water level alarm device for early warning of coal mine water disasters, which includes a mounting frame, where a conducting tube is installed in the middle of the bottom end of the mounting frame, water inlets are formed in the bottoms of both sides of the conducting tube, a movable tube is vertically installed in the middle of the mounting frame, and an adjusting rod is vertically movably installed in the middle of the mounting frame. According to the

invention, the height of the foam block can be adjusted by rotating the adjusting rod in the middle of the limit plate, so that the height of the early warning water level can be set; water enters through the conducting tube, and the foam block is pushed upward by the water entering the conducting tube, so that the limit plate can push the movable rod to move to both sides respectively, so that the touch rod can exert pressure on the piezoelectric sensor, and the piezoelectric sensor sends a signal to the controller, so that the buzzer and the warning light can be controlled to start, and the alarm function can be played for workers.

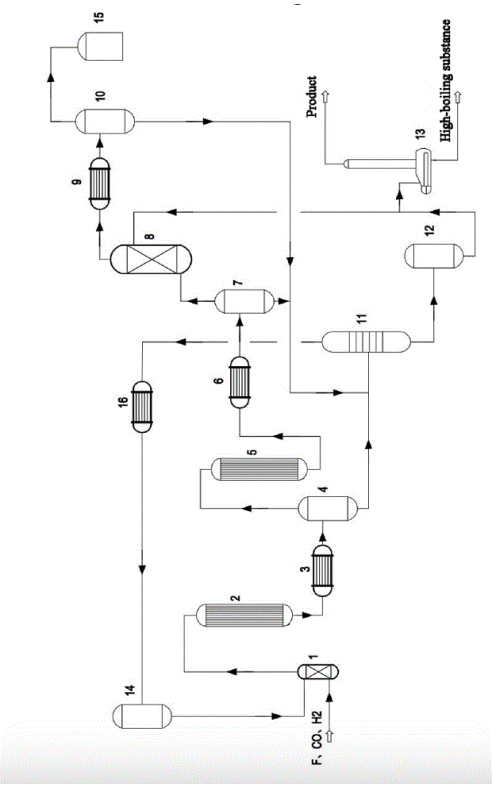



21: 2025/00364. 22: 2025/01/10. 43: 2025/07/18
51: C01B
71: Hongye biotechnology Co., Ltd.
72: CHEN ZHIYONG, XING PEIZHI, CHEN WEI, WU TONGDA

**54: A COMPREHENSIVE UTILIZATION AND PURIFICATION METHOD OF BIOBASED SYNGAS CONTAINING FURAN**

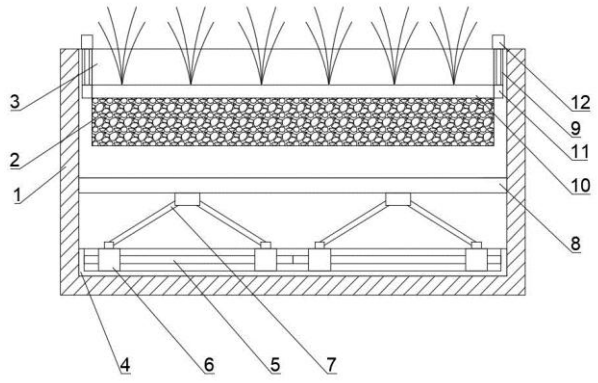
00: -

The present invention belongs to the technical field of comprehensive utilization and purification of biobased waste gas, and specifically relates to a method for comprehensive utilization and purification of biobased syngas containing furan. The system described in the present invention comprises a delighting tower, an acetone storage tank, a gas storage tank, a condenser of the delighting tower, and a vaporizer, a one-stage fixed-bed reactor, a one-stage condenser, a one-stage separator, a two-stage fixed-bed reactor, and a two-stage condenser, which are sequentially connected through pipelines. The method described in the present invention can produce a downstream product DFP by subjecting a biobased furan to a two-stage continuous gas-phase fixed-bed reaction with acetone, and at the same time, the biobased syngas can be efficiently purified by using the de-lightened DFP as a drenching agent, thus realizing the comprehensive utilization of the furan and the purification of the biobased syngas. The biobased syngas obtained by the method has a furan volume ratio of less than 0.5% and a total volume ratio of hydrogen and carbon monoxide of more than 99%, which can be used to produce biobased methanol, realizing the comprehensive utilization of furans in the furan-containing biobased syngas and the purification of the syngas.



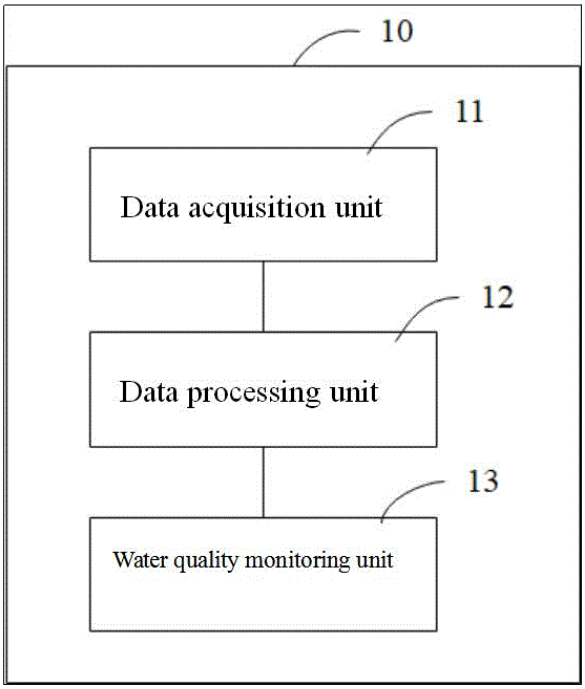

21: 2025/00365. 22: 2025/01/10. 43: 2025/07/25
51: C02F

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: GU Deming, HUANG Zhenzhen, WANG Quanjun, MA Yao, YUE Mingfei, SU Zhe, LIU Wen, KANG Haiyan, MAO Yanli
**54: INTELLIGENT ANTI-CLOGGING CONSTRUCTED WETLAND SYSTEM**
00: -
The invention relates to the technical field of constructed wetlands, and discloses an intelligent anti-clogging constructed wetland system, which includes a filter bed, where a packing layer is arranged in the filter bed, and a planting layer is arranged at the top of the packing layer; the clean assembly includes a elevating component, a lifting component and a backwashing component, where that elevating component is arranged in the filter bed, the elevating component is used for controlling the lifting of the packing layer, the lifting component is arranged above the packing layer for controlling the lifting of the planting layer, and the backwashing component is arranged on the packing layer for backwashing the packing layer, where when the packing layer is clogged and needs to be cleaned, the elevating component controls the separation of the packing layer from the filter bed and the lifting component controls the separation of the planting layer from the backwashing component; the detection component is installed on the packing layer, and the detection end of the detection component extends into the packing layer. The invention realizes the automatic cleaning of the packing layer, reduces the labor amount of manual treatment, improves the cleaning efficiency and avoids the clogging of the artificial wetland.

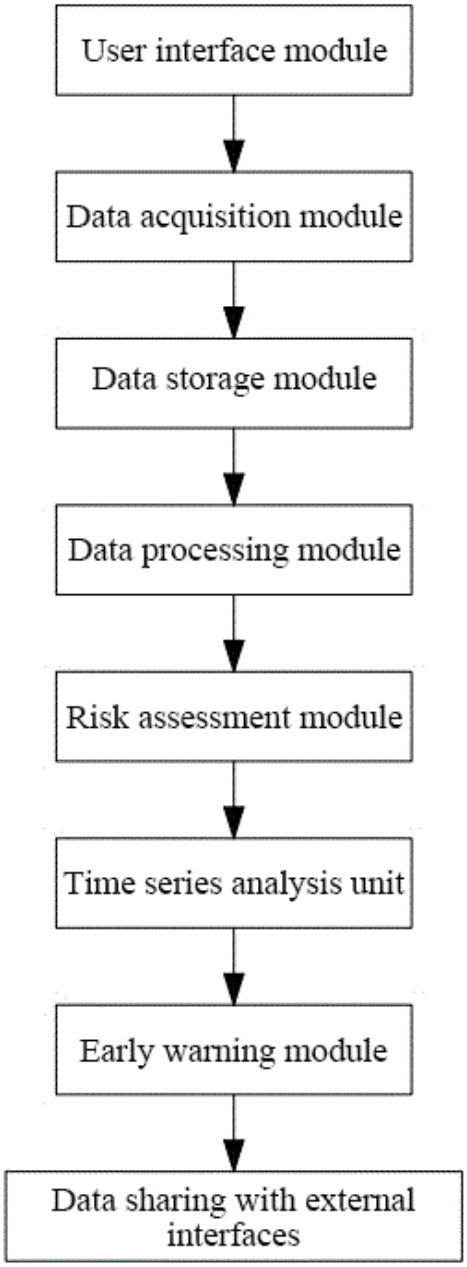



21: 2025/00367. 22: 2025/01/10. 43: 2025/07/25
51: G01N

71: Henan University of Urban Construction
72: WANG Yong, TIAN Junfeng, JIANG Zhongfeng, WU Li, LIANG Feng, ZHANG Peixin, LI Songfeng, DONG Wenchao, MA Yan, LI Yuya
**54: SYSTEM FOR MONITORING COAL MINE UNDERGROUND WATER QUALITY BASED ON THE INTERNET OF THINGS**
00: -
The application provides a system for monitoring coal mine underground water quality based on the Internet of Things, which includes a data acquisition unit used for acquiring the pH value, turbidity, oxidation-reduction potential, temperature, dissolved oxygen, heavy metal ions, organic substances and the like of underground water and surface water in the monitoring period of the coal mine underground water quality monitoring area; a data processing unit for further generating input data; and the water quality monitoring unit is used for monitoring the input data through the water quality monitoring model to obtain a water quality monitoring result. Through the Internet of Things technology, various sensors are used to collect various water quality parameters in real time to form input data, and artificial intelligence technology is used to reliably monitor the water quality in coal mines, find water quality problems in time, effectively prevent sudden water accidents, and ensure the quality and safety of surface water and underground water in coal mines.

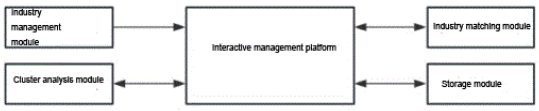



21: 2025/00378. 22: 2025/01/10. 43: 2025/07/21
51: E21F
71: Shaanxi Energy Institute
72: Zhao Wei, Yangyang You, Jiaming Wang
**54: A COAL MINE RISK EARLY WARNING SYSTEM BASED ON BIG DATA ANALYSIS**
00: -
The invention relates to a coal mine risk early warning system based on big data analysis, which comprises: data acquisition module for real-time collection of data in coal mine operation; The data storage module is configured to store historical data records collected by the data acquisition module; The data processing module uses big data analysis techniques to process stored data and identify potential risk factors; The risk assessment module, according to the analysis results of the data processing module, evaluates the risk level of coal mine operation, including low, medium and three levels; The early warning module, when the risk level reaches the preset threshold, sends an early warning signal to the relevant personnel. This application can collect multi-dimensional data in coal mine in real time, and realize the early warning of safety risk of coal mine environment through data processing, analysis and evaluation model. The system has the ability of efficient data collection, accurate risk assessment, timely early warning and emergency response, and effectively improves the safety of coal mine operation.




21: 2025/00379. 22: 2025/01/10. 43: 2025/07/18
51: G06Q
71: HUNAN WOMEN'S UNIVERSITY
72: LI, Rong
33: CN 31: 202311742003.8 32: 2023-12-18
**54: RESOURCE INFORMATION INTERACTIVE MANAGEMENT SYSTEM FOR DIFFERENTIATED AND COORDINATED DEVELOPMENT OF COUNTY ECONOMY**

00: -
The present application belongs to the field of county economic development and involves data analysis technology. It is used to solve the problem that the existing technology cannot integrate characteristic industries and leading industries into the industrial chain division of labor and build characteristic industrial clusters. Specifically, it is a resource information interactive management system for differentiated and coordinated development of county economy, including an interactive management platform. The interactive management platform is communicatively connected with an industry management module, a cluster analysis module, an industry matching module and a storage module; the cluster analysis module is used to perform cluster management and analysis on county economic industries: pillar objects are arranged in descending order according to the management coefficient GL values to obtain a pillar sequence, and the pillar sequence is intercepted and analyzed to obtain a number of retained clusters; the present application can perform management and analysis on county economic industries, and provide feedback on the overall development status of county economic industries through management coefficients, so as to provide data support for the cluster management and analysis process.




21: 2025/00394. 22: 2025/01/13. 43: 2025/07/25
51: B65B
71: PINGDINGSHAN UNIVERSITY
72: LIU Yang, MA Sha, WANG Luwei, TANG Wanquan

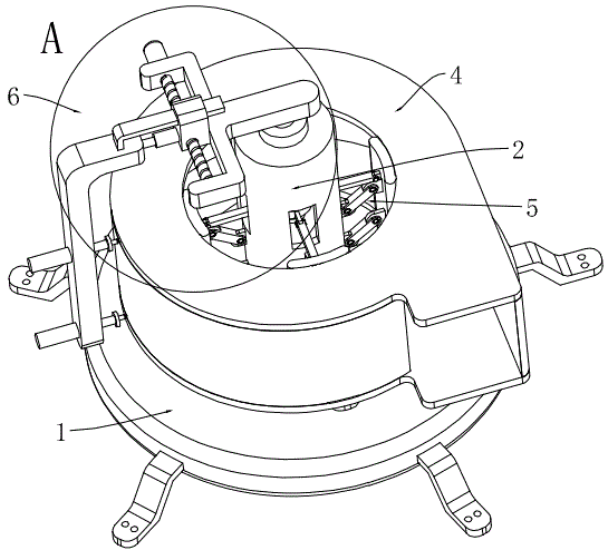
**54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING SWOLLEN LIVER DISEASE OF TRIONYX SINENSIS AND PREPARATION METHOD THEREOF**

00: -
The invention discloses a traditional Chinese medicine composition for treating swollen liver disease of Trionyx sinensis and a preparation method thereof. The traditional Chinese medicine composition consists of the following components in parts by weight: 15-25 parts of camellia, 11-15 parts of jujube leaves, 15-25 parts of scutellaria baicalensis, 10-15 parts of Fraxinus rhynchophylla seeds, 10-15 parts of Radix Paeoniae Alba and 8-10 parts of Schisandra chinensis. The traditional Chinese medicine composition obtained by the invention has a good therapeutic effect on treating swollen liver disease of Trionyx sinensis, is safe, non-toxic, has obvious curative effect, does not produce drug resistance, and the cured Trionyx sinensis has a relatively low chance of getting the disease again.

21: 2025/00402. 22: 2025/01/13. 43: 2025/07/18
51: B24B
71: Zhongshan Medida Electrical Appliance Co., Ltd.
72: Wei Zhou

**54: RANGE HOOD FAN VOLUTE PROCESSING DEVICE**

00: -
A range hood fan volute processing device, comprising a base, the base is circular and a vertical support column is fixed at a center thereof; multiple support plates are fixed at a bottom of the support column; a volute placed on the support plates is provided outside the support column; an inner support mechanism is provided on the support column to fix and support the volute; a welding mechanism is also provided on a top of the support column to automatically weld the volute. The invention belongs to the technical field of fan volute processing, and in particular to a range hood fan volute processing device.




21: 2025/00409. 22: 2025/01/13. 43: 2025/07/22
51: H01M
71: POWERCELL SWEDEN AB
72: EKBLAD, Oskar
33: SE 31: 2250946-7 32: 2022-08-03
**54: FUEL CELL STACK ASSEMBLY WITH COMPRESSION MEANS**
00: -
An electric cell stack assembly (100) is provided which comprises at least an electric energy generating cell stack body (102) with a plurality of unit cells stacked in a stacking direction (104), a first and second endplate (106) sandwiching the cell stack body (102), wherein at least one of the end plates (106) has an opening (108, 114) in a side face (110), and at least one compression element (1) configured to compress the cell stack body (102) between the first and second endplate (106) in the stacking direction (104), wherein the at least one compression element (1) comprises a band element (2) having a first attaching element (8) arranged at a first end (4), and a second attaching element (10) arranged at a second end (6), wherein the first attaching element (8) is an anchor bolt-like element (12) protruding from the compression element (1) perpendicular to the stacking direction (104), and the second attaching element (10) is an anchor bolt-like element (8) protruding from the compression element perpendicular to the stacking direction (104) or a pressure adjusting element (24) configured to adjust a pressure applied by the at least one compression element (1) in the stacking direction (104), wherein each anchor bolt-like element (12) is formed integrally with or permanently fixed to the band element (2), wherein at least one anchor bolt-like element (12) is inserted in the opening (108) provided in the side face (110) of the at least one end plate (106).

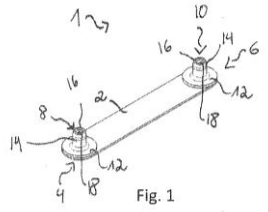


Fig. 1

21: 2025/00435. 22: 2025/01/13. 43: 2025/07/22
51: A01N; C07K; C12Q; G01N
71: INSTITUTE OF VEGETABLES, TIBET ACADEMY OF AGRICULTURE AND ANIMAL HUSBANDRY SCIENCES
72: ZHANG, Kai, LI, Yanfeng, ZHAO, Liyang, Nanjizhuoma
**54: ANTIBODY RESISTANT TO BOTRYTIS CINEREA ATP3 PROTEIN AND APPLICATION THEREOF**
00: -
The present invention discloses an antibody resistant to a Botrytis cinerea ATP3 protein and an application thereof, and relates to the technical field of biology. The antibody for detecting a pathogenic bacterium of gray mold in the present invention is obtained by immunizing an animal by taking the Botrytis cinerea ATP3 protein as an antigen, and an amino acid sequence of the Botrytis cinerea ATP3 protein is shown as SEQ ID NO.1. In the present invention, based on specific binding characteristics of the antigen and the antibody, the Botrytis cinerea ATP3 protein is detected by western blotting and immunomicrosphere technologies; defects of long traditional Botrytis cinerea detection time and high requirements are overcome; and detection of gray mold is well ahead of time, thereby achieving an early, rapid and accurate detection effect on gray mold.

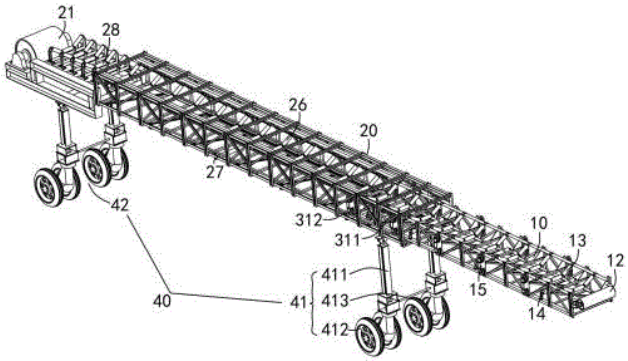
21: 2025/00436. 22: 2025/01/14. 43: 2025/07/25
51: B65G
71: Ningxia Tiandi Northwest Coal Machinery Co. , Ltd.
72: SU Xiaoping, YANG Jie, ZHANG Cheng, LI Juan, LI Jiapeng, WU Tao, ZHANG Ruizheng, ZHOU Hailin, GAO Xinfei, WANG Feifei, WANG

Pengjia, SHENG Weiqing, WANG Pengcheng, CHEN Hao

**54: TRUSS NESTED BELT CONVEYOR**

00: -

A truss nested belt conveyor comprises a first truss, a second truss, a traveling mechanism and a moving mechanism; the left end of the first truss is nested in the right end of the second truss, and the second truss is installed above the moving mechanism; the conveyor takes the first truss and the second truss as the basic supports, uses the gears of the traveling mechanism to provide power, and uses the pin row as the transmission medium to drive the first truss to expand and contract in the abdomen of the second truss; the moving mechanism can easily realize universal movement; the invention has the beneficial effects that the first truss and the second truss are nested with each other, and the second upper idler group is connected in series with a circular ring chain, so that the telescopic distance can reach 6m, and the telescopic distance does not interfere with each other; the traveling mechanism of gear and pin row is adopted during expansion and contraction, which avoids the shortcomings that the traditional gear or rack and chain structure is difficult to process, and the whole rack needs to be replaced if it is broken. The structure of gear and pin row has independent fault points and is very convenient to process and install.




21: 2025/00437. 22: 2025/01/14. 43: 2025/07/22

51: C12Q

71: ZHEJIANG UNIVERSITY

72: YAN, Jingying, NI, Liang, LV, Bingtao

**54: RECOMBINASE POLYMERASE AMPLIFICATION (RPA) KIT AND DETECTION METHOD FOR VISUALLY DETECTING MULTIPLE TRANSGENIC MARKERS**

00: -

Provided are a recombinase polymerase amplification (RPA) kit and detection method for visually detecting transgenic markers, which belong to the technical field of molecular biological detection. The RPA kit includes an RPA primer set, guide ribonucleic acid (gRNA), a single-stranded deoxyribonucleic acid (ssDNA) fluorescent probe and Cas12a protein. According to the present invention, the RPA primer set, the gRNA and the ssDNA fluorescent probe are designed for the transgenic markers CaMV35S, NptII and Hyg, and are combined with CRISPR-Cas12a such that the three transgenic markers CaMV35S, NptII and Hyg can be visually detected; and moreover, an experimental result is stable, repeatability is excellent, no special apparatus is needed, the transgenic markers are detected on site, and the present invention is convenient to popularize and use at a basic level.

21: 2025/00438. 22: 2025/01/14. 43: 2025/07/22

51: B65G; G01N

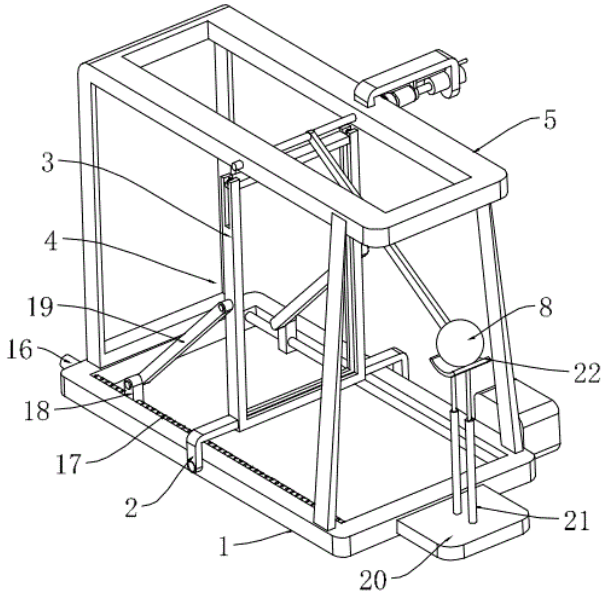
71: Digaonuo Electric Appliance Technology Development Co., Ltd.

72: Xianping Wu

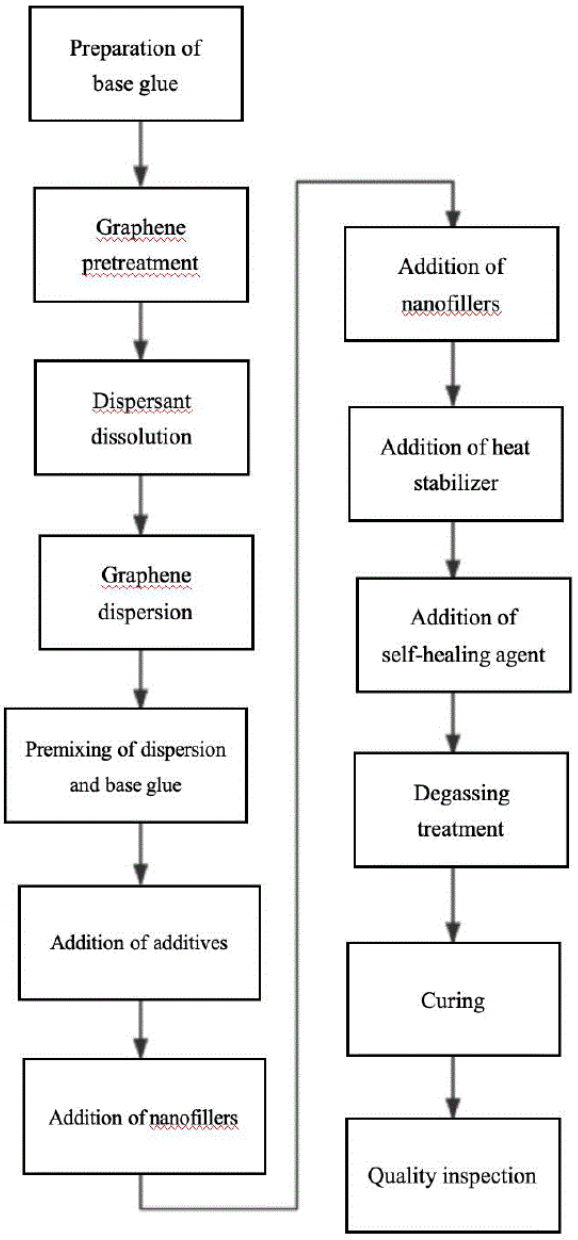
**54: COMPRESSIVE PERFORMANCE TESTING DEVICE FOR TEMPERED GLASS PRODUCTION**

00: -

A compressive performance testing device for tempered glass production, comprising a base, and the base is provided in a  shape; a movable frame is rotatably provided on the base; a U-shaped mounting frame is fixed on the movable frame; adjustment mechanisms connected to the mounting frame are also provided on the base; a frame is fixed on the base; a rotating rod is rotatably provided on a top of the frame; a connecting rod is fixed on the rotating rod; an impact ball is fixed at one end of the connecting rod. The invention belongs to the technical field of tempered glass test, and in particular to a compressive performance testing device for tempered glass production.

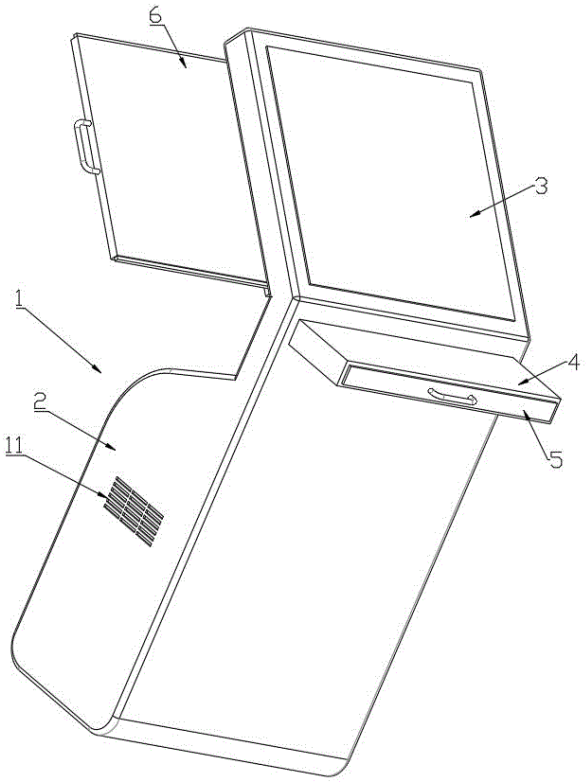



21: 2025/00440. 22: 2025/01/14. 43: 2025/07/25
51: C08L
71: Yancheng Teachers University
72: Sun Yuzhen, Wang Liping, Xing Rong, Liu Yu, Zhao Zhiyuan, Wang Jindi, Wu Huayu, Chang Yingna, Song Kefan
33: CN 31: 2024118975527 32: 2024-12-23
**54: A GRAPHENE-MODIFIED ADHESIVE, ITS PREPARATION METHOD, AND ITS APPLICATION**
00: -
This invention provides a graphene-modified adhesive, along with its preparation method and applications. The graphene-modified adhesive comprises the following components: Base adhesive: One or more selected from epoxy resin, polyurethane, or acrylate adhesives. Graphene filler: Content ranging from 0.5% to 5% of the total weight of the base adhesive. Dispersant: content ranging from 0.1% to 1% of the total weight of the base adhesive. Additives: content ranging from 0.1% to 2% of the total weight of the base adhesive. The preparation method involves surface functionalization of the graphene filler and the use of sodium dodecyl sulfate as the dispersant, combined with ultrasonic-assisted dispersion technology. This method effectively addresses the issue of uneven dispersion of graphene within the base adhesive. By ensuring uniform distribution of graphene in the adhesive, the method avoids inconsistencies in performance and localized stress concentration. As a result, the overall mechanical properties, electrical conductivity, and thermal stability of the adhesive are significantly improved.




21: 2025/00441. 22: 2025/01/14. 43: 2025/07/22
51: G09B
71: DEZHOU VOCATIONAL AND TECHNICAL COLLEGE
72: Tingting Wang
**54: INTERACTIVE CHINESE TEACHING DEVICE AS A FOREIGN LANGUAGE**
00: -
An interactive Chinese teaching device as a foreign language, belonging to the technical field of teaching

devices, comprising an inquiry machine, wherein the inquiry machine comprises a chassis, a touch screen provided on a top wall of the chassis; a storage board provided on one side of the touch screen is provided on a front wall of the chassis, and a storage drawer for storing writing pens, erasers and other items is slidably inserted in the storage board; a writing board provided behind the touch screen is slidably connected to a rear wall of the chassis; a handle is provided on a side wall of the writing board; a baffle frame provided outside the writing board is provided at one end of the rear wall of the chassis, and a bolt for locking the writing board is provided on the baffle frame.When teaching Chinese as a foreign language, the invention allows learners to conveniently search for Chinese knowledge by operating the touch screen, making human-computer interaction more convenient; the storage drawer can be used to store writing pens, erasers and other items, which are available for learners to use at any time when teaching Chinese as a foreign language; after searching for corresponding Chinese knowledge, learners can put books and notebooks on the storage board so as to implement the corresponding Chinese knowledge in the book or write them on the notebook; by locking the position of the writing board on one side of the touch screen, learners can take out the corresponding writing pens and erasers from the storage drawer, use the writing pens to write on the writing board, and can write Chinese characters on the blackboard while learning Chinese characters, which helps to consolidate the Chinese character knowledge learned by learners during Chinese teaching, and has more functions.

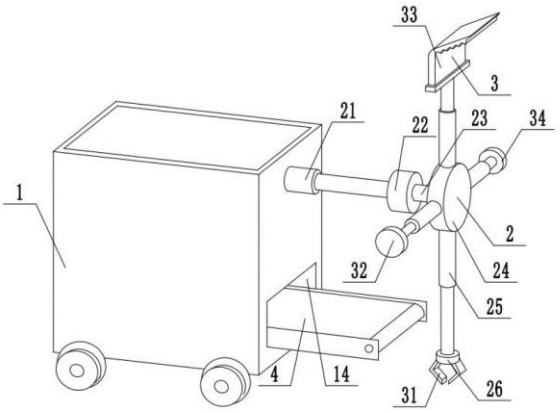



21: 2025/00442. 22: 2025/01/14. 43: 2025/07/22
51: B61F
71: Henan University of Urban Construction
72: WU, Wenlong, WANG, Zhijia, JIA, Haipeng, JIA, Senchun, LI, Siyuan, ZHAO, Yuxia

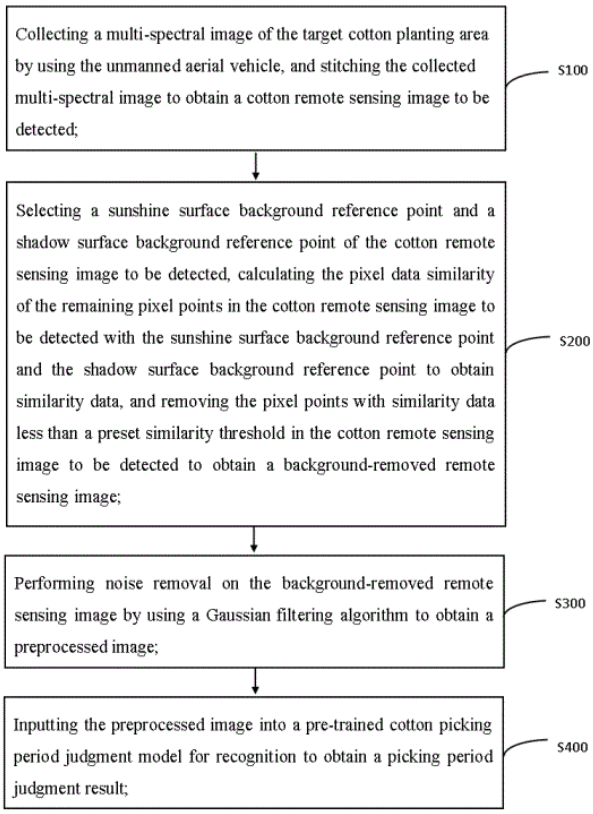
**54: OBSTACLE REMOVING DEVICE**

00: -

The present invention discloses an obstacle removing device, including a collecting box. A partition is provided inside the collecting box. The partition divides an interior space of the collecting box into a collecting bin and a clearing bin. The collecting box moves on railway tracks via moving wheels. A debris clearing mechanism is provided on the collecting box, and the debris clearing mechanism is configured to clear different obstacles dropped on the railway tracks by means of shoveling, gripping, magnetic adsorption, or shattering. A conveying and collecting mechanism is provided below the debris clearing mechanism, and the conveying and collecting mechanism is configured to convey the obstacles cleared by the debris clearing mechanism into the collecting bin for collection and storage. A lifting mechanism is provided in the collecting bin, and the lifting mechanism is configured to convey the obstacles from the collecting bin into the clearing bin.

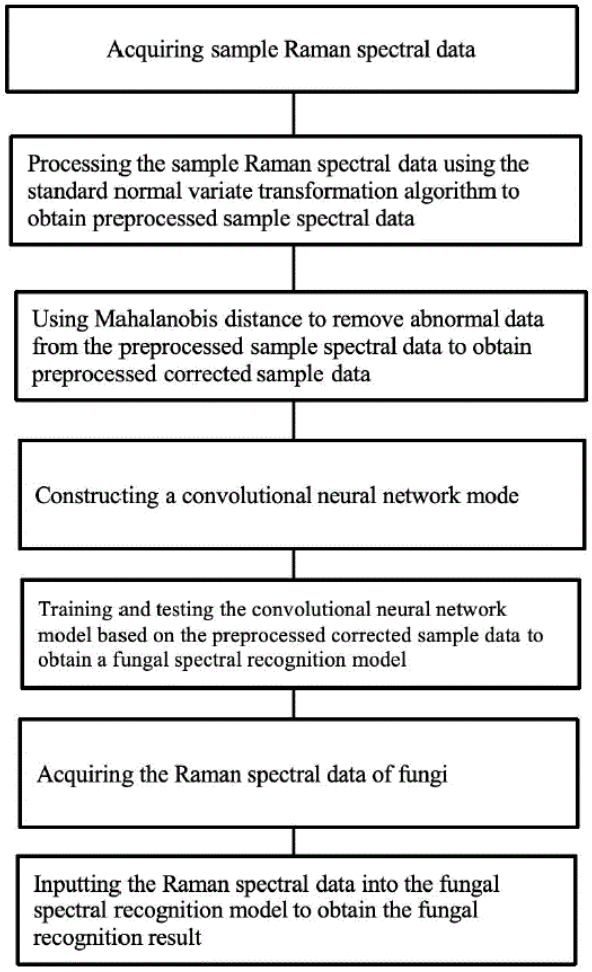



21: 2025/00443. 22: 2025/01/14. 43: 2025/07/22
51: G06F
71: Inner Mongolia Academy of Agricultural & Animal Husbandry Sciences
72: Wulan Tuya, Bao Junwei, Wang Baolin, Guo Jia, Yang Chao, Wu Shengnan, Ji Shiyu
**54: METHOD FOR DETERMINING COTTON PICKING PERIOD BASED ON REMOTE SENSING MONITORING**
00: -
The invention belongs to the technical field of cotton detection, and provides a method for determining cotton picking period based on remote sensing monitoring, which comprises the following steps: acquiring remote sensing images of cotton to be detected, removing background, removing noise and recognizing a cotton picking period judgment model; the training process of cotton picking period judgment model includes: multi-spectral image acquisition, image preprocessing, cotton plant recognition module recognition, positive and negative sample labeling, YOLOv11 network training, statistical classification module construction and cotton picking period judgment model construction. By using similarity and Gaussian filtering algorithm, the invention improves the background and noise removal effect of the collected image and improves the quality of the input image of the detection model; by collecting multi-spectral images of several kinds of cotton in mature stage, the detection universality of cotton picking period judgment model is improved; by constructing positive and negative samples, the accuracy and reliability of model detection are improved.

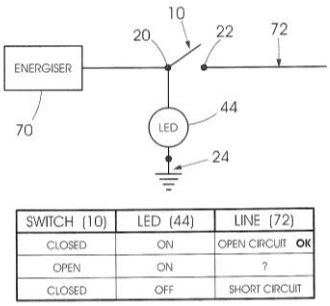



21: 2025/00444. 22: 2025/01/14. 43: 2025/07/25
51: G01N
71: Nankai University
72: Wangbin, Xu Xiaoxuan, Liang jing, Huang Mingyue, Feng Hailong, Xujing
**54: A METHOD, DEVICE, ELECTRONIC DEVICE, AND STORAGE MEDIUM FOR FUNGAL RAMAN SPECTRAL RECOGNITION BASED ON CONVOLUTIONAL NEURAL NETWORK**
00: -
The present invention provides a method, device, electronic equipment, and storage medium for fungal Raman spectral recognition based on convolutional neural networks (CNN), belonging to the field of clinical microbiological testing. The method includes the following steps: Acquiring sample raman spectral data: collecting the Raman spectral data of the fungal samples. Preprocessing the sample spectral data: applying the standard normal variate transformation algorithm to process the Raman spectral data, resulting in preprocessed sample spectral data. Removing abnormal data: using Mahalanobis distance to remove abnormal data points from the preprocessed spectral data, yielding corrected sample data. Training the CNN model:

using the corrected sample data to train and test the constructed convolutional neural network model, which generates a fungal spectral recognition model. Fungal identification: inputting the Raman spectral data of fungi into the fungal spectral recognition model to obtain fungal identification results. This technical solution integrates Raman spectroscopy with convolutional neural networks, inputting fungal Raman spectral data into the recognition model to classify and identify fungi, thus improving both the efficiency and accuracy of fungal identification.

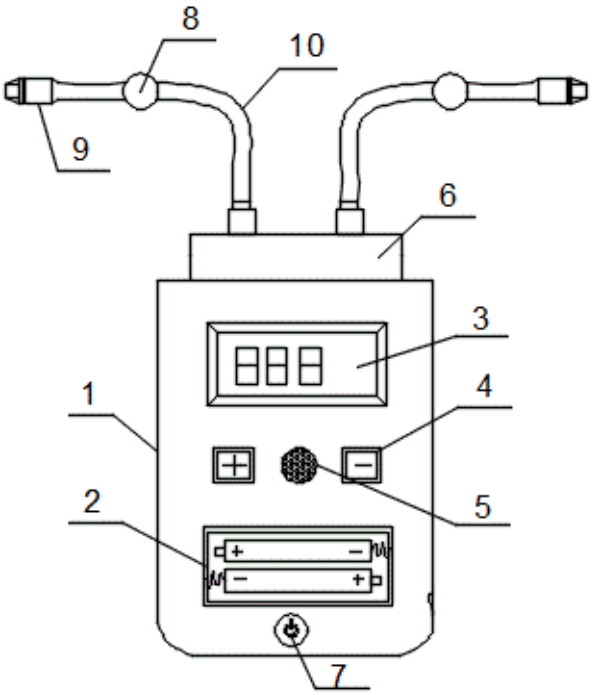



21: 2025/00445. 22: 2025/01/14. 43: 2025/07/22
51: A01K; H01H
71: NEMTEK (PTY) LTD
72: MANIOUDAKIS, Nicolas
**54: ELECTRIC FENCE SWITCH**
00: -
A switch which is connectable to an electric fence and which is operable to disconnect the fence from an energiser and which has LEDs which provide a visual indication of the integrity of the electric fence installation.




| SWITCH (10) | LED (44) | LINE (72) |
|---|---|---|
| CLOSED | ON | OPEN CIRCUIT OK |
| OPEN | ON | ? |
| CLOSED | OFF | SHORT CIRCUIT |

21: 2025/00446. 22: 2025/01/14. 43: 2025/07/22
51: A61M
71: THE FIRST AFFILIATED HOSPITAL OF SOOCHOW UNIVERSITY
72: ZHAO, Dan, YANG, Yufan, JI, Fuhai, SHAN, Xisheng, KUAI, Lingyu
**54: PROPOFOL TARGET CONTROLLED INFUSION PUMP FOR ANESTHESIA**
00: -
The present disclosure provides a propofol target controlled infusion pump for anesthesia, including a housing, where a switch and a display screen are provided on a surface of the housing, buttons and a voice receiver are provided below the display screen, and a liquid storage bag is provided inside the housing. The liquid storage bag is connected to a transfer chamber, and a liquid is injected from the liquid storage bag into the transfer chamber through a motor and a micro pump, and the liquid enters an infusion tube through the transfer chamber. A control chip is mounted inside the housing, and a button operation module and a voice recognition and processing module input a signal to the control chip. The control chip controls the motor based on the signal to drive the micro pump and the flow valve to work.

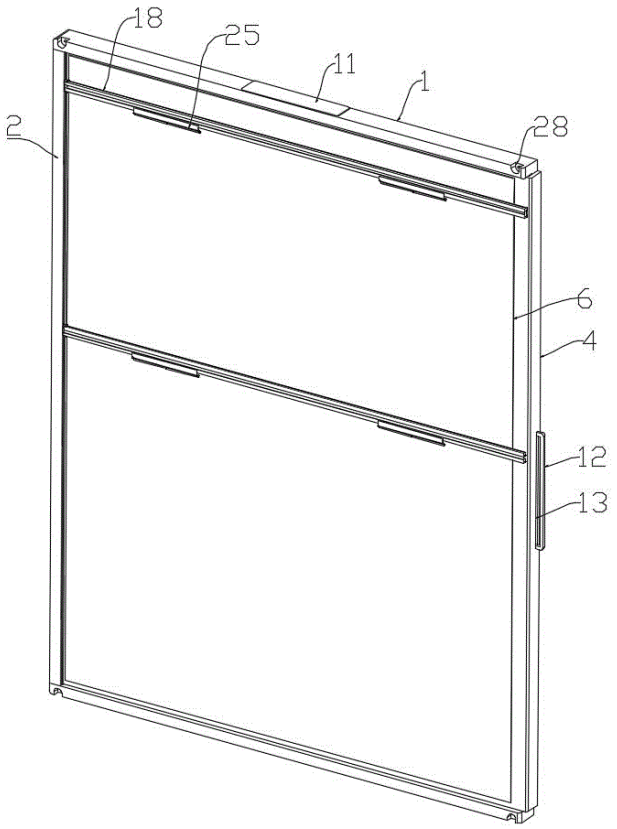



21: 2025/00455. 22: 2025/01/14. 43: 2025/07/22
51: G02B
71: Xiangya Hospital of Central South University
72: Haiyun Tang

**54: A RADIOLOGY IMAGING DIAGNOSTIC FILM READING DEVICE**

00: -

The invention relates to the technical field of a film reading light box, in particular to a radiology imaging diagnostic film reading device, including a mounting plate, the mounting plate is "C"-shaped plate-like structure, one side of the mounting plate is fixed with a baffle plate, the other side of the mounting plate is inserted with a mounting frame, the surface of the mounting frame is provided with a through mouth, the surface of the mounting frame is fixed with a through hole, the through hole covers the through mouth, and the mounting plate is equipped with a through hole. The surface of the baffle plate is sliding and connected with a suspension plate, the side of the suspension plate away from the through hole is fixed with an elastic splint, and the side of the suspension plate facing the through hole is fixed with a wipe cotton board; The advantages are as follows: the radiology image diagnostic film reading device of the invention has a removable structure on the mounting plate, which is convenient to disassemble the mounting frame, thus facilitating the cleaning of the through hole surface and the maintenance of the LED light bar. This design not only improves the maintenance convenience of the device, but also prolongs the service life of the device.



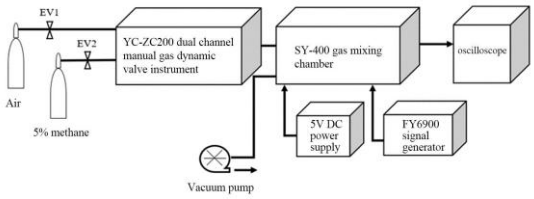

21: 2025/00480. 22: 2025/01/15. 43: 2025/07/22
51: G05B
71: Henan University of Urban Construction
72: Zhenzhen Cheng, Wei He, Yanfei Dong, Guofeng He

**54: A METHOD FOR DYNAMICALLY REGULATING THE LINEARITY OF TEMPERATURE**

00: -

The invention relates to the field of sensor technology, and discloses a method for dynamically adjusting the linearity of temperature, designing an experimental system, selecting a temperature modulation mode, carrying out static testing, and recording the response of the sensor under different concentrations of gas by changing the heating voltage and thereby changing the temperature to improve the selectivity, linearity and other performance of the gas sensor. Based on the static test results, the dynamic response of the sensor under sine wave, square wave, FM wave and AM

wave temperature modulation is measured, and the maximum response amplitude is extracted from the dynamic response data as the characteristic value. At the same time, the correlation coefficient between the calibration concentration point and the maximum response amplitude is calculated to evaluate the linearity of the sensor under the temperature modulation mode. The correlation coefficients of different temperature modulated waveforms were compared to determine the optimal temperature modulated waveform. Finally, according to the comparison of experimental results, the best scheme of sine wave, square wave, FM wave and AM wave was selected.

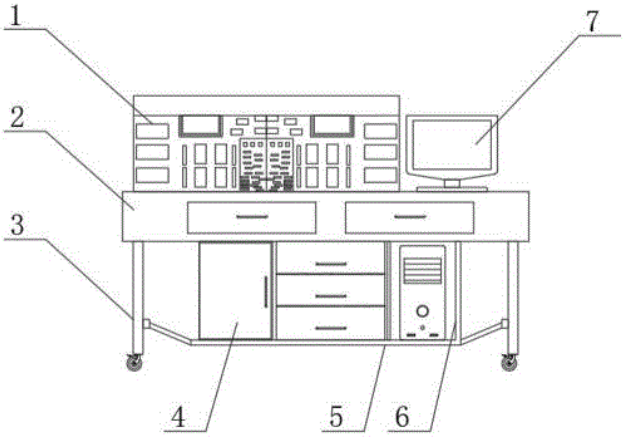



21: 2025/00481. 22: 2025/01/15. 43: 2025/07/25
51: A47B
71: HUNAN CITY UNIVERSITY
72: ZENG Ying, WANG Ke, ZENG Yuliang, ZHANG Tao

**54: COMPUTERIZED TRAINING DEVICE FOR NETWORK PLANNING WITH EASY HEAT DISSIPATION**

00: -

The invention discloses a computerized training device for network planning with easy heat dissipation, comprising a worktable, wherein support columns are symmetrically fixed on the side of the bottom end of the worktable; a placing plate is arranged on the inner side of the bottom end of the worktable; a protective plate is fixed on the top end surface of the placing plate; the protective plate has a hollow rectangular parallelepiped structure; a plurality of parallel radiating grooves are formed on both sides of the protective plate; the radiating grooves formed on both sides of the protective plate are staggered; through the designed radiating grooves, the working heat of the host computer can be effectively discharged, so as to avoid the failure of the host computer caused by high-temperature gas, and ensure the normal teaching and training. At the same time, the designed radiating grooves are staggered, so as to avoid external dust from sticking to the side of the host computer. With the designed cleaning plate, the dust inside the protective plate can be pulled out and cleaned, which is very convenient to use.

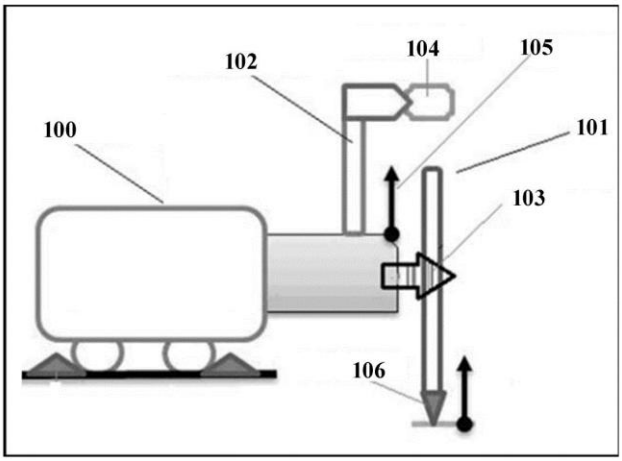



21: 2025/00482. 22: 2025/01/15. 43: 2025/07/22
51: G06F
71: Henan University of Urban Construction
72: SHEN, Tong, YUAN, Yue, HAN, Yang

**54: ARTIFICIAL INTELLIGENCE INTEGRATED SYSTEM FOR GEOTECHNICAL SAMPLING LAYOUT**

00: -

An artificial intelligence integrated system for geotechnical sampling layout is proposed. The system includes a rapid pre-sampling engineering vehicle and a re-sampling static cone penetrometer. The rapid pre-sampling engineering vehicle includes a dynamic cone penetrometer (DCP), a data processing engine, and a visual interface. The DCP includes optical fiber sensors, and a base, a frame, foot pads, screw rods, handles, guide rods, guide holes, and a level ruler are arranged on the re-sampling static cone penetrometer. The DCP performs penetration sampling on a predetermined geotechnical target region, and the optical fiber sensors send data acquired by each time of penetration sampling to the data processing engine. The data processing engine analyzes the sampling data through an AI data expansion engine, and the visual interface displays recommended re-sampling layout points within the predetermined geotechnical target region. The re-sampling static cone penetrometer performs geotechnical sampling on the recommended re-sampling layout points.




21: 2025/00485. 22: 2025/01/15. 43: 2025/07/22
51: G01N
71: CHANG'AN UNIVERSITY
72: Lili PEI, Bo YUAN, Wei LI, Daijie HE, Jiangang DING, Yao GAO, Danni MAO
33: CN 31: 2024115219392 32: 2024-10-29

**54: METHOD AND DEVICE FOR ANNOTATING PAVEMENT STRUCTURE LAYER DISTRESSES UNDER THREE-DIMENSIONAL MULTI-VIEW IMAGING**

00: -

The present invention provides a method and device for annotating pavement structure layer distresses under three-dimensional multi-view imaging, and relates to the technical field of computer image recognition. The method comprises: splicing a horizontal plane view and a longitudinal section view to obtain a two-dimensional image across views; constructing a horizontal plane-longitudinal section feature association annotation model including multiple multi-level feature fusion networks and a spatial pyramid pooling layer; and obtaining a trained feature association annotation model for the model using a training set. In this way, distresses are automatically annotated by using the trained horizontal plane-longitudinal section feature association annotation model, which reduces the time for manual annotation and improves the efficiency of distresses annotation; using the two-dimensional image across views, considering the similar distresses feature association information between adjacent horizontal plane views and longitudinal section views, the annotation performance of the model is optimized, and the distresses are automatically annotated by using the trained horizontal plane-longitudinal section feature association annotation model, which reduces mis-annotation and missed annotation and improves the accuracy of distresses annotation.

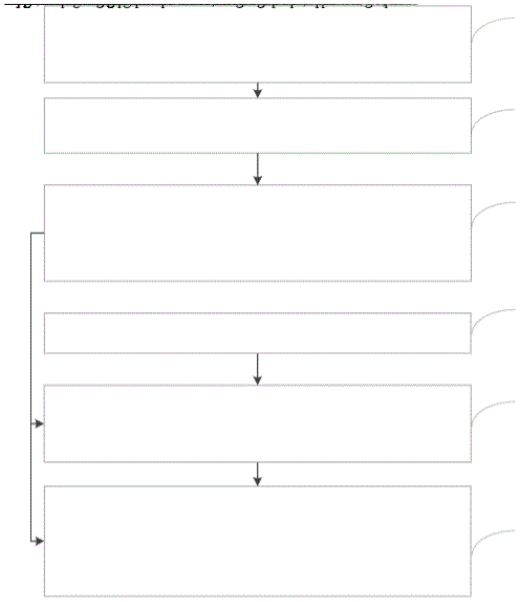


FIG. 1

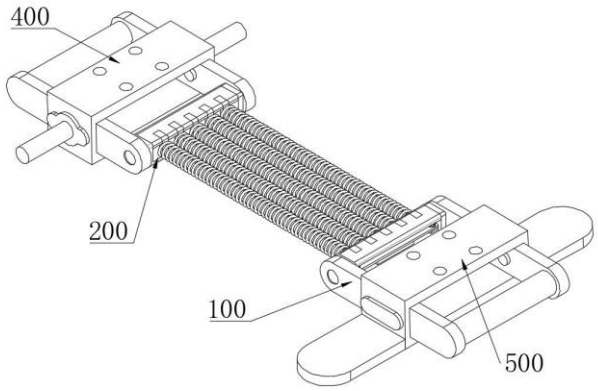
21: 2025/00486. 22: 2025/01/15. 43: 2025/07/25
51: A63B
71: Henan University of Urban Construction
72: JIANG Chen, YANG Hao, ZHANG Wei

**54: STRETCHER FOR PHYSICAL FITNESS**

00: -

The invention relates to the technical field of fitness equipment, and discloses a stretcher for physical fitness, which comprises a pull handle, a rotating block, a tension spring, a first sleeve block and a second sleeve block, wherein the number of the pull handles is two, and the tension spring is located between the two pull handles. According to the stretcher for physical fitness, the rotating block is arranged, and after the lock plate is rotated, the pull ring of the end of the tension spring can be sleeved on the hook, and then the lock plate is rotated; when the clamping block is inserted into the through groove, the lock plate can be effectively prevented from rotating because the clamping block is clamped with the through groove, and the groove is clamped on the surface of the hook at this time, so that the end of the tension spring is prevented from falling off from the hook and the user is prevented from being hurt; when the user wants to stretch his hands and feet synchronously, the first sleeve block can be

fixed on the surface of one pull handle, and the second sleeve block can be fixed on the surface of the other pull handle, so that the hand can hold the hand lever, and the hand and foot can be stretched synchronously after the foot is put into the foot wearing plate.




21: 2025/00489. 22: 2025/01/15. 43: 2025/07/22
51: A61K; A61P
71: HUNAN FANAPLOS BIOTECHNOLOGY LLC., HUNAN LONSTAR BIOTECH CO., LTD.
72: Shan WANG, Dun HU, Yiyi SUN
33: CN 31: 202210951941.8 32: 2022-08-09
33: CN 31: 202210950392.2 32: 2022-08-09
33: CN 31: 202210950391.8 32: 2022-08-09

**54: METAL-CHELATED PHOSPHOLIPID COMPLEX, METAL-CHELATED PHOSPHOLIPID COMPLEX NANOPARTICLE AND DRUG-LIPID PARTICLE, AND PREPARATION METHODS AND USES THEREOF**

00: -

The present disclosure provides a metal-chelated phospholipid complex, a metal-chelated phospholipid complex nanoparticle and a drug-lipid particle, and preparation methods and uses thereof, which relates to the field of biotechnology. The metal-chelated phospholipid complex is formed by reaction of a phospholipid molecular moiety, a linker molecular moiety, and a metal ion moiety. The metal-chelated phospholipid complex nanoparticle comprises a metal-chelated phospholipid complex, a particle aggregation-inhibiting conjugated lipid, and a non-cationic lipid or a non-ionizable lipid. The drug-lipid particle comprises a drug and the metal-chelated phospholipid complex nanoparticle. The metal-chelated phospholipid complex has a function in adsorbing drugs with negative charges and self-assembling with other lipids into metal-chelated phospholipid complex nanoparticles (MPP), so as to avoid the use of cationic lipid or ionizable lipid under the condition of ensuring the effectiveness which is not less than that of LNP, so that the toxicity of the drug-lipid particle is greatly reduced compared with LNP, the biological safety is remarkably improved, and the delivery of drugs with negative charges in organisms is facilitated.

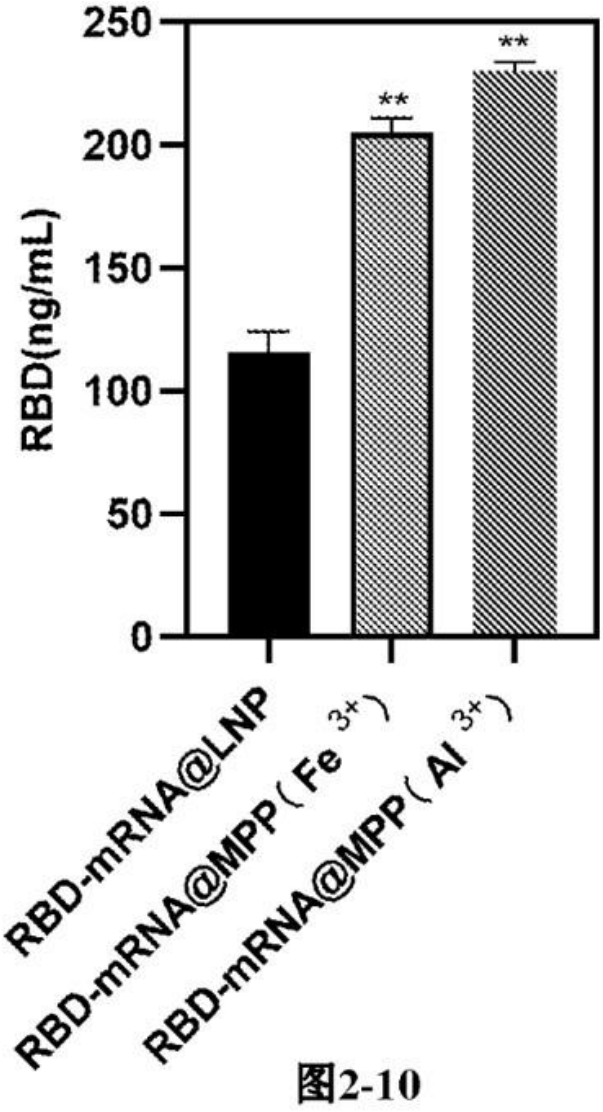



图2-10

21: 2025/00491. 22: 2025/01/15. 43: 2025/07/22
51: F03B
71: TURTLE PROP HTP HOLDING B.V.
72: VAN BRIEMEN, Johannes, Willem, VAN DIJK, Ronald
33: NL 31: 2032174 32: 2022-06-15

**54: PROPELLOR SYSTEM WHICH IS SUITABLE FOR KINETIC INTERACTION WITH A FLUID THAT FLOWS UNIDIRECTIONALLY THROUGH A**

**CHANNEL, AND A CHANNEL FOR A UNIDIRECTIONAL FLUID FLOW PROVIDED WITH SUCH A PROPELLOR SYSTEM**
00: -
Propellor system which is suitable for kinetic interaction with a fluid that flows unidirectionally through a channel, wherein the propellor system comprises a supporting body which is configured to be integrated within the channel in a fixed position, and a kinetic interaction system which is provided on the supporting body such that the kinetic interaction system extends in an interior area of the channel when the supporting body is integrated in the fixed position, wherein the kinetic interaction system is provided with either at least one pair of rotatory blades, or a single rotatory blade, and wherein each rotatory blade performs a combinatory rotation.

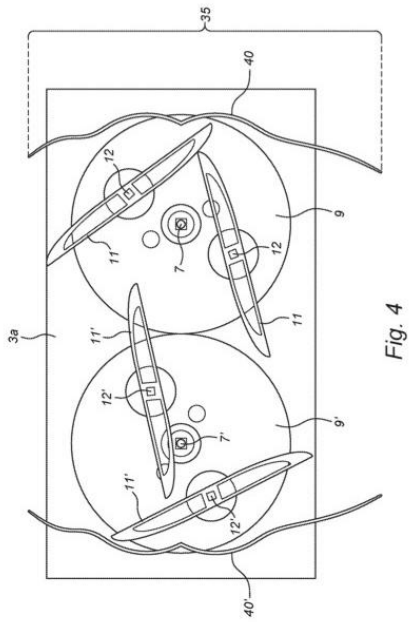
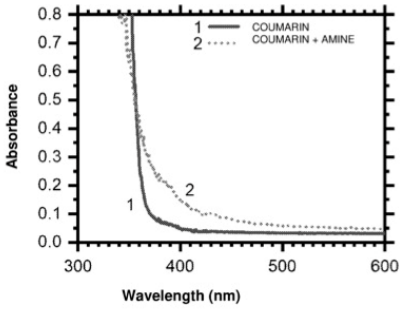


Fig. 4

21: 2025/00495. 22: 2025/01/15. 43: 2025/07/22
51: A61K; C07K; A61P
71: JOINT STOCK COMPANY "BIOCAD"
72: IAKOVLEV, Aleksandr Olegovich, LOMKOVA, Ekaterina Aleksandrovna, SOZONOVA, Aleksandra Aleksandrovna, ZINKINA-ORIKHAN, Arina Valerevna, BOLSUN, Daria Dmitrievna, MOROZOV, Dmitry Valentinovich
33: RU 31: 2022120466 32: 2022-07-26
33: RU 31: 2022127768 32: 2022-10-26
**54: PHARMACEUTICAL COMPOSITION OF ANTI-CD20 ANTIBODY AND USE THEREOF**
00: -
The present invention relates to the field of pharmacy and medicine, specifically to pharmaceutical compositions of anti- CD20 antibody, in particular divozilimab, which compositions may be used to treat a CD20-mediated disease or disorder. The invention further relates to the use of said compositions for the treatment of a CD20-mediated disease or disorder, as well as to a method of treating a CD20-mediated disease or disorder, comprising administering said compositions.

21: 2025/00496. 22: 2025/01/15. 43: 2025/07/22
51: G01N
71: MICAMO LAB S.R.L.
72: TISO, Micaela, POLLIO, Massimo, TAVELLA, Christian, POGGI, Alice, LOVA, Paola, COMORETTO, Davide, ESCHER, Andrea, GRASSELLI, Elena
33: IT 31: 102022000015411 32: 2022-07-21
**54: DETECTION SYSTEM FOR AMINES IN FOOD PRODUCTS**
00: -
The present invention relates to novel detection systems for amine compounds for monitoring the storage condition of food products.




21: 2025/00497. 22: 2025/01/15. 43: 2025/07/22
51: G06N; G06Q
71: FEATURESPACE LIMITED

72: COOPER, Simon

**54: MACHINE LEARNING SYSTEM**

00: -

A machine learning system (700) for processing incoming event data (702) associated with a transaction. A state delta generator (708) retrieves a version of the state data (712) from a database (704) and receives incoming event data (702). The generator (708) processes the event data (702) and the state data (712) using a model to generate a state delta (710) comprising a set of pending updates to the state data which is stored in a queue. An updater (714) retrieves the event state deltas (710) from the queue and the state data (716) from the database (704). The updater (714) applies the pending updates from each state delta (710) to generate updated state data (716) used to update the database (704). A cache (718) stores a copy of each of the state deltas (710), where the copies of the state deltas are stored in the cache together with a value indicative of the version of the state data used to generate the state delta.

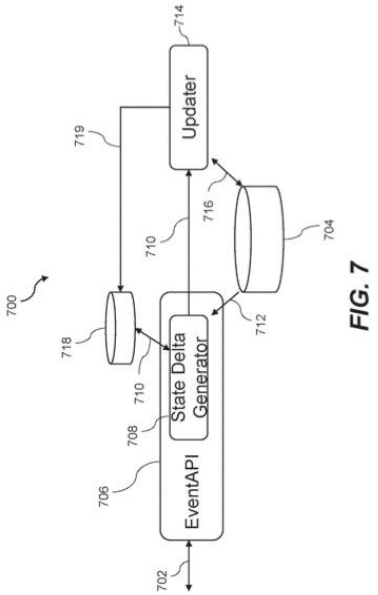



FIG. 7

21: 2025/00501. 22: 2025/01/15. 43: 2025/07/22

51: A61K; A61P

71: BEIJING NEUROSURGICAL INSTITUTE, SHANGHAI YUANXI MEDICINE CORP

72: CHANG, Yuanhao, ZENG, Fan, JIANG, Tao, PANG, Bo, YIN, Hanwei, ZENG, Huihui

33: CN 31: 202211460109.4 32: 2022-11-21

**54: USE OF BENZISOSELENAZOLE COMPOUND IN PREPARATION OF DRUG FOR TREATMENT OF SPINAGLIOMA**

00: -

The present invention relates to use of a benzisoselenazole compound in the preparation of a drug for the treatment of spinaglioma. By applying the benzisoselenazole compound, cell proliferation of the spinaglioma can be effectively inhibited at the cellular level, with an obvious dose dependence. The tumor growth of a tumor-bearing mouse can be effectively inhibited at the animal model level, and the survival period of the tumor-bearing mouse can be prolonged.

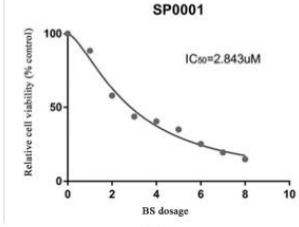



FIG. 4

21: 2025/00502. 22: 2025/01/15. 43: 2025/08/05

51: G06F

71: PENNY PIXEL, INC.

72: Achim DÖBLER

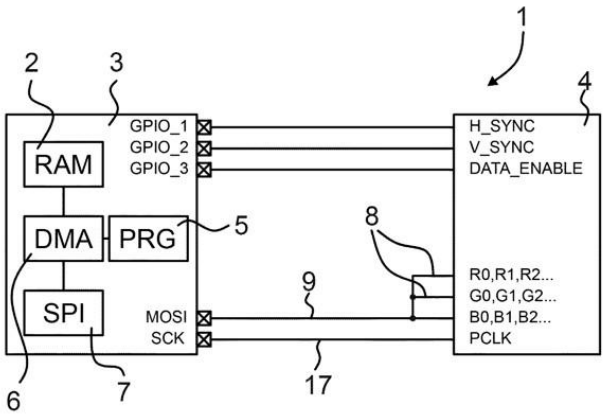
33: DE 31: 10 2022 119 130.3 32: 2022-07-29

**54: METHOD FOR ACTUATING ACTIVE MATRIX DISPLAYS, CORRESPONDING CONTROLLER, AND COMPUTER PROGRAM PRODUCT**

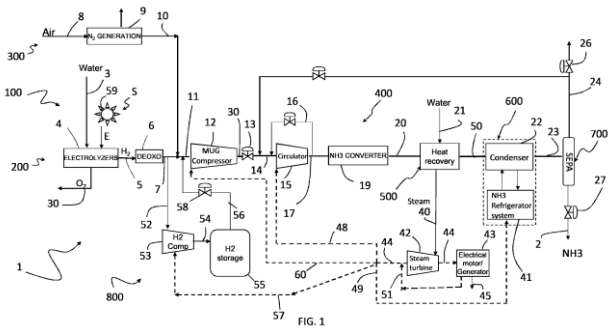
00: -

The invention relates to a method for controlling active matrix displays (4), said method allowing active matrix displays to be controlled in an inexpensive manner, in particular in an inexpensive manner and with a highly flexible color diversity, having, inter alia, the steps of running a program stored in a program storage device (5) of a microcontroller (3), said program controlling a DMA controller (6) such that the DMA controller (6) reads the image data of the color depth of 1 bit per pixel from the data storage device (2), and transmitting an RGB image data set generated by the program therefrom to a hardware SPI (7) connected to the DMA controller (6) by means of the DMA controller (6), said hardware SPI transmitting the RGB image data set to the active matrix display (4) in a serial manner via the data output (MOSI) thereof, wherein

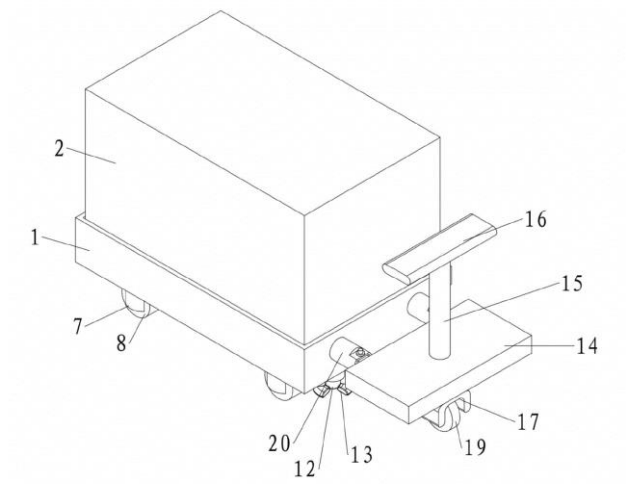
in order to synchronize the data transmission to the active matrix display (4), the SPI clock output (SCK) controls the pixel clock input (PCLK) of the active matrix display (4). The invention additionally relates to a corresponding controller (1) and to a computer program product.



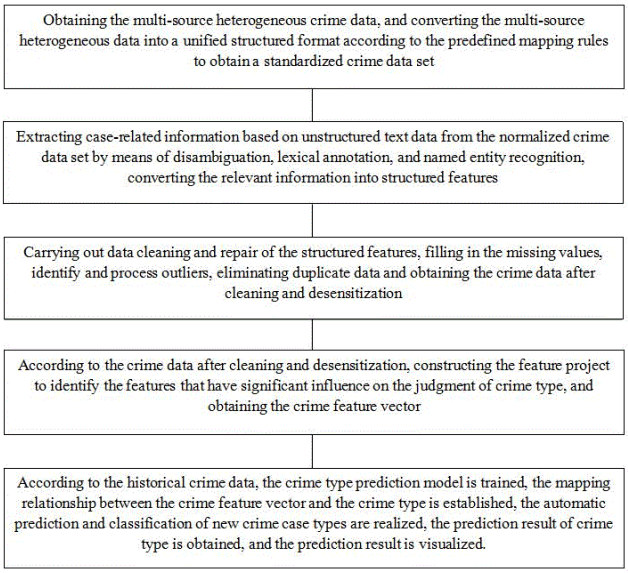

21: 2025/00516. 22: 2025/01/15. 43: 2025/07/22
51: C01C; C25B
71: CASALE SA
72: GALIMBERTI, Leonardo Angelo, PANZA, Sergio, BARATTO, Francesco, GENOVA, Giovanni
33: EP 31: 22183670.3 32: 2022-07-07
**54: PROCESS FOR PRODUCING AMMONIA**
00: -
A process for producing ammonia (2) in an ammonia synthesis converter (19) with co-production of steam (40) from the recovery of process heat generated in the synthesis converter, the process includes producing power (44) from expansion of said steam (40) in a steam turbine (42) which is mechanically coupled to a reversible motor/generator (43) and to a compressor so to form an assembly which can be selectively operated in a first mode of operation and in a second mode of operation wherein: in said first mode, mechanical power (44) is transferred from said steam turbine (42) to said reversible motor/generator (43) and to said compressor whilst in said second mode, mechanical power (44) is transferred to said compressor from said steam turbine (42) and from said reversible motor/generator.




21: 2025/00519. 22: 2025/01/16. 43: 2025/07/25
51: C25D
71: Yancheng Teachers University
72: Wang Jindi, Yue Mohan, Liu Jiahao
33: CN 31: 2024119325969 32: 2024-12-26
**54: AN ELECTROPLATING DEVICE DESIGNED FOR THE PREPARATION OF RECHARGEABLE ZINC BATTERY ANODE METAL MATERIALS**
00: -
The invention discloses an electroplating device for preparing rechargeable zinc battery anode metal materials, comprising: a support base, with the electroplating device installed inside the support base. The lower surface of the electroplating device is in contact with two support plates, and the two support plates are symmetrically arranged on the left and right sides of the electroplating device. The lower surfaces of the two support plates are fixedly connected to first fixed columns, and the lower surfaces of the first fixed columns are fixedly connected to limit plates, which are in contact with the lower surface of the support base. The outer surfaces of the first fixed columns are sleeved with springs, and the springs are in contact with the inner surface of the support base. The lower surface of the support base is fixedly connected to four hydraulic pumps, and the output ends of the four hydraulic pumps are fixedly connected to hydraulic rods. The lower surfaces of the hydraulic rods are fixedly connected to connection seats. By horizontally placing the support plates, the materials can fully and evenly contact the electroplating solution in all areas, ensuring uniform deposition of the electroplating layer, thereby improving the stability of the battery’s charge and discharge performance.

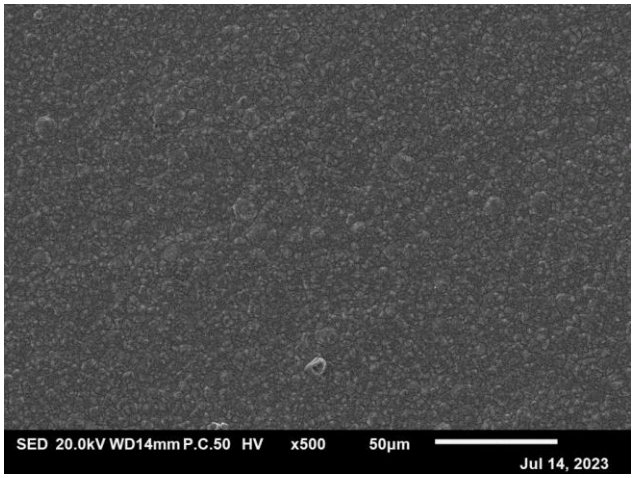



21: 2025/00520. 22: 2025/01/16. 43: 2025/07/25
51: G06Q
71: Henan University of Urban Construction
72: MA Dongli, LI Yanke, GUO Yizhen, LU Ling
**54: METHOD AND SYSTEM OF CRIME TYPE TREND ANALYSIS BASED ON BIG DATA**
00: -
The invention discloses a method and system of crime type trend analysis based on big data, including: obtaining multi-source heterogeneous crime data, convert multi-source heterogeneous data into unified structured format, and obtain standardized crime data set; according to the unstructured text data of the standardized crime data set, the relevant information of the case is extracted and transformed into structured features; carrying out data cleaning and repairing for structural features, fill in missing values, identify and process outliers, eliminate duplicate data, and obtain crime data after cleaning and desensitization; according to the crime data after cleaning and desensitization, the feature project is constructed to identify the features that have significant influence on the judgment of crime type, and the crime feature vector is obtained; according to the historical crime data, the crime type prediction model is trained, the mapping relationship between the crime feature vector and the crime type is established, the automatic prediction and classification of new crime case types are realized, and the prediction result of crime type is obtained.




21: 2025/00521. 22: 2025/01/16. 43: 2025/07/25
51: C25C
71: Henan University of Science and Technology
72: CHENG Chu, SONG Kexing, LIU Haitao, ZHANG Guoshang, YUE Pengfei, LU Weiwei, CHEN Chen, LU Qiongqiong, ZHOU Yanjun, PENG Xiaowen, LI Yankun, LI Shaolin, ZHANG Yanmin, GAO Yan
**54: METHOD FOR PREPARING LOW-GOLD-SILVER CATHODE COPPER BY CONTINUOUS ELECTROLYTIC REFINING OF HIGH-GOLD-SILVER COPPER PLATE**
00: -
The invention provides a method for preparing low-gold-silver cathode copper by continuous electrolytic refining of a high-gold-silver copper plate, and relates to the technical field of copper electrolytic refining. The invention provides a method for preparing low-gold-silver cathode copper by continuous electrolytic refining of a high-gold-silver copper plate, which includes the following steps: electrolyzing and refining copper by using the high-gold-silver copper plate as an anode plate in an electrolyte, and applying ultrasonic waves to the electrolyte in the electrolytic process; the electrolyte is circularly purified in the electrolytic process, and the circular purification includes continuous outflow, purification and reflux of the electrolyte; In the electrolytic process, the gas generated in the electrolytic process is continuously removed; the silver content in the high-gold-silver copper plate is less than or equal to 1903.5 g/t, and the gold content is less than or equal to 198.4 g/t. By applying

ultrasonic waves in the electrolysis process and circulating the electrolyte after purification, the cavitation and mechanical stirring of ultrasonic waves can prevent gold and silver from mechanically adhering to cathode copper in the form of fine particles, reduce the gold and silver content of cathode copper, suspend anode mud in the electrolyte, realize real-time separation and collection with the electrolyte circulation, and improve the recovery efficiency of gold and silver.

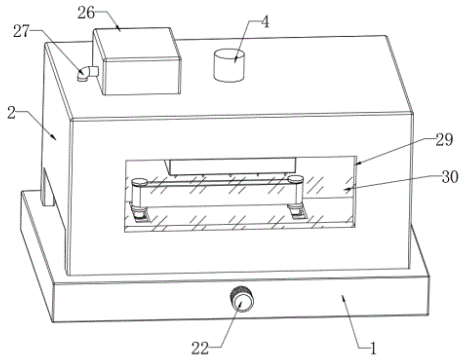



21: 2025/00523. 22: 2025/01/16. 43: 2025/07/22
51: B05C; H01L
71: Guangdong Lihe Lighting Technology Co., Ltd.
72: Xiewen Zhi

**54: LED LAMP BEAD PACKAGING DEVICE**

00: -

An LED lamp bead packaging device, comprising a base, a shell is arranged on the base, the device further comprises an electric push rod installed on a top of the shell, a dispensing plate is arranged at a bottom output end of the electric push rod, material tanks are installed on a top of the dispensing plate, and a constant pressure feeding assembly is arranged in each material tank; the base is provided with a push groove, a push adjustment assembly is arranged in the push groove, and movable grooves that are arranged opposite to each other penetrate through a top of the push groove, a support shaft connected to the push adjustment assembly is arranged in each movable groove, and a conveyor belt is rotatably arranged between two support shafts on the each same side.

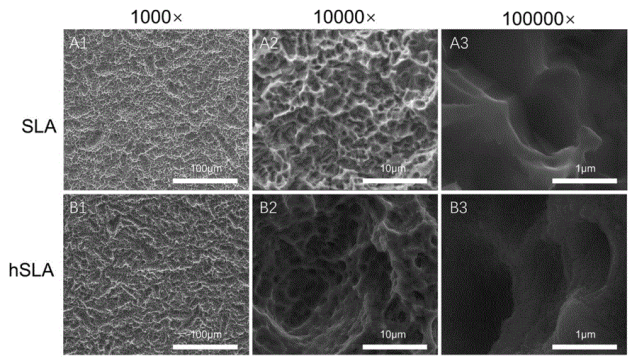



21: 2025/00524. 22: 2025/01/16. 43: 2025/07/22
51: C23F
71: ZUO Jun, ZUO Xingzhi, HUANG Jinghui, LI Huangdi
72: ZUO Jun, ZUO Xingzhi, HUANG Jinghui, LI Huangdi, CHEN Ziyuan, TANG Zhangui

**54: METHOD FOR SURFACE MODIFICATION OF PURE TITANIUM OR TITANIUM ALLOY MEDICAL IMPLANT MATERIAL**

00: -

The invention provides a method for surface modification of pure titanium or titanium alloy medical implant material, includes sand blasting and acid etching and loading strontium ions on surface, where the surface loading of strontium ions includes following steps: putting the medical material obtained in step B into strontium ion aqueous solution with concentration of 2.0-3.0 mg/mL, shaking for 20-40 s, then adjusting pH to 7.60, then cleaning the medical material, and drying to obtain the surface modification of the medical material. According to the invention, the surface of the implant is modified by using the Sr-acid network, so that the hydrophilicity of the implant interface is improved, and the surface oxide layer is thickened and contains active oxygen, so that the bonding performance between the implant and the bone is better improved and the possibility of inflammation is reduced. The modified implant is expected to shorten the osseointegration time, accelerate bone healing, shorten the diagnosis and treatment cycle of patients, improve the success rate of implantation and reduce the incidence of inflammation.

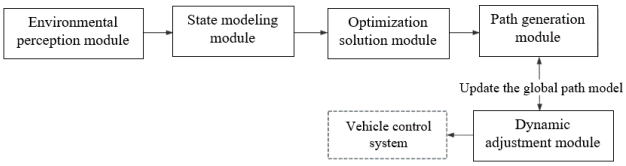



21: 2025/00526. 22: 2025/01/16. 43: 2025/07/22
51: G01C
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: ZHANG Yao, LI Hua, WANG Xiaohui, CAI Jing, ZHANG Zilu, KOU Mengtian, XU Huafeng, CHEN Yao, LIU Lijun, LI Yajie

**54: AUTONOMOUS VEHICLE PATH GENERATION SYSTEM BASED ON MULTI-OBJECTIVE CONSTRAINTS**

00: -

The present invention relates to the field of autonomous driving and provides an autonomous vehicle path generation system based on multi-objective constraints, including: an environmental perception module that collects dynamic and static environmental information around the vehicle and generates a local environmental model; a state modeling module that establishes state equations based on the kinematic characteristics of the vehicle and defines multi-objective constraints and optimization objective functions; an optimization solution module that calculates optimal control variables and state sequences; a path generation module that generates the global driving path of the vehicle and marks key points to support precise vehicle control; and a dynamic adjustment module that performs real-time optimization on the path to adapt to complex dynamic environmental changes. The present invention may meet the path planning requirements of autonomous vehicles under multi-objective constraints, and has global optimality, high efficiency, and dynamic environmental adaptability, and is applicable to various scenarios such as urban traffic, highway, and campus autonomous driving.

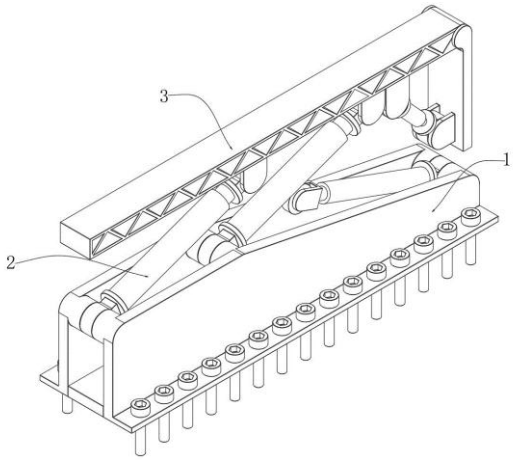



21: 2025/00527. 22: 2025/01/16. 43: 2025/07/22
51: E21F
71: Henan University of Urban Construction
72: Hao Yang, Rongfu Peng

**54: A MINING SAFETY PROTECTION DEVICE FOR NON-COAL MINE**

00: -

The invention relates to the technical field of mining safety protection, and discloses a mining safety protection device for non-coal mine, which comprises an installation mechanism for stable installation with the ground, a supporting mechanism for supporting the top wall and side wall of the mine hole is arranged at the upper end of the installation mechanism, and an adjustment mechanism for driving the lifting and angle adjustment of the supporting mechanism is arranged between the supporting mechanism and the installation mechanism. Through the adjustment of the adjustment mechanism, the supporting mechanism can quickly and accurately reach the predetermined position and provide stable support for the mine hole. Its beneficial effect is mainly reflected in two aspects: one is small in size, which is easy to build and disassemble in the small mine passage, greatly improving the safety and efficiency of mining operations; the other is the stability of the support, through accurate adjustment, It ensures the effective support of the top wall and side wall of the mine and reduces the risk of mine accident.

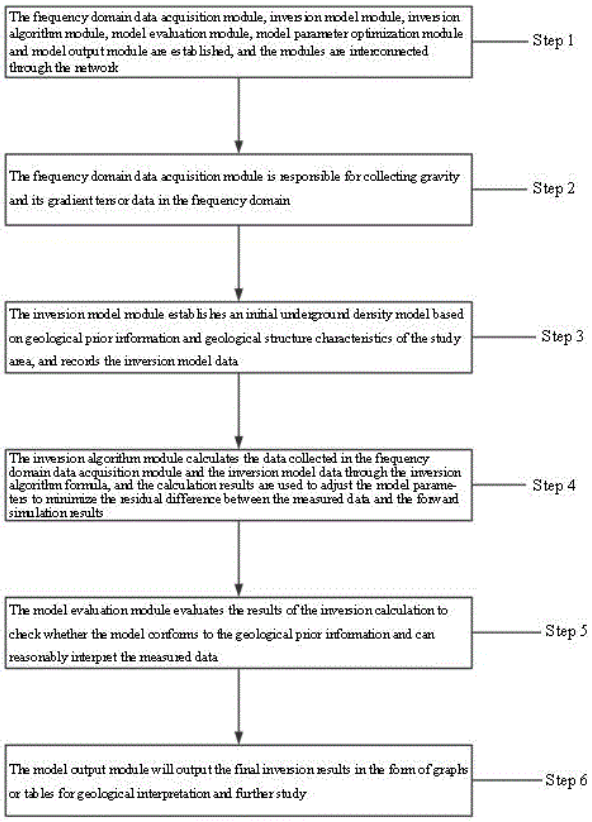



21: 2025/00528. 22: 2025/01/16. 43: 2025/07/22
51: G01V
71: Henan University of Urban Construction
72: Sheng Liu, Fangchao Lu, Yiju Tang, Bing Jia, Quan Lou, Haomin Tian, Yanhui Yang, Lulu Zhang

**54: A THREE-DIMENSIONAL INVERSION METHOD FOR GRAVITY AND ITS GRADIENT TENSOR DATA IN FREQUENCY DOMAIN**

00: -

The invention relates to the technical field of geophysical exploration, and discloses a three-dimensional inversion method for gravity and its gradient tensor data in frequency domain. Data is collected in the frequency domain data acquisition module by establishing a frequency domain data acquisition module, an inversion model module, an inversion algorithm module, a model evaluation module, a model parameter optimization module and a model output module. In the inversion model module, an initial underground density model is established according to the geological prior information and the geological structure characteristics of the study area, and the data of the inversion model is recorded. The data calculation is carried out in the inversion algorithm module. The calculation results are used to adjust the model parameters to minimize the residual difference between the measured data and the forward simulation results. Checking whether the model conforms to the geological prior information, and the model output module outputs the final inversion results in the form of graphs or tables for geological interpretation and further research.



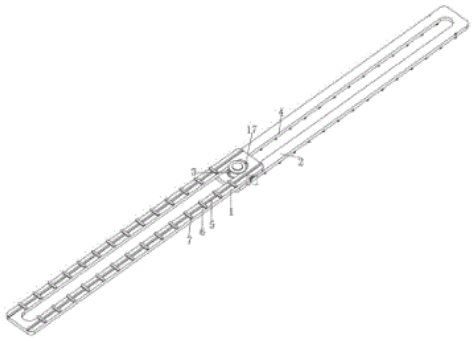

21: 2025/00529. 22: 2025/01/16. 43: 2025/07/22
51: G01B
71: Hunan Provincial Center For Disease Control And Prevention (Hunan Academy of Preventive Medicine)
72: WANG, Fei, TAN, Yaqing

**54: HYGIENICS MEASURING EXTENSION RULE FOR MEASURING STANDARD MODELS OF DESKS AND CHAIRS FOR PRIMARY AND SECONDARY SCHOOLS**

00: -

The present invention discloses a hygienics measuring extension rule for measuring standard models of desks and chairs for primary and secondary schools, relating to the field of extension rules, and including an extension rule body. An elongation rule is provided below the extension rule body, a fixing groove is arranged in each of the extension rule body and the elongation rule, and a hinge member is slidably connected between the fixing grooves. A first cavity is arranged on each of two sides of an end of the extension rule body, and a limiting mechanism configured for fixing the extension rule body and the elongation rule is provided in the first cavity. The hygienics measuring

extension rule for measuring standard models of desks and chairs for primary and secondary schools can fix positions of the extension rule body and the elongation rule by the limiting mechanisms.

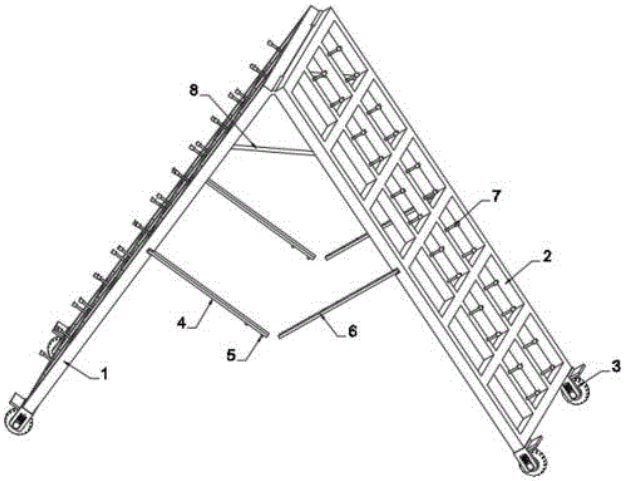


21: 2025/00530. 22: 2025/01/16. 43: 2025/07/25
51: A24B
71: Guangdong Institute of Tobacco Science, Guangdong Tobacco Shaoguan Co., Ltd.
72: ZONG Zhaohui, WANG Jun, ZHAO Weicai, WANG Xuebo, LIU Lan, WANG Xing, SUN Zheng, FAN Miaomiao

**54: A SUN-CURED YELLOW TOBACCO MODULATING, FOLDING AND DRYING DEVICE**

00: -

The invention discloses a sun-cured yellow tobacco modulating, folding and drying device, which relates to the technical field of sun-cured yellow tobacco, and includes an iron fence I and an iron fence II, where the upper ends of the iron fence I and the iron fence II are hinged through hinges to form an iron frame for drying tobacco leaves; the lower ends of the iron fence I and the iron fence II are respectively provided with two movable rubber casters with buckles and locks, which are used for moving and fixing when drying enterprise sheds, small sheds and greenhouses; the left and right ends of the iron fence I are provided with two iron sheets I. The invention realizes the simplification of the two steps of bone cutting and weaving, and reduces the modulation cost; the opening and closing angle of the tobacco leaf preparation device is adjusted by the cooperation of the iron sheet I and the iron sheet II in the processes of drying the enterprise shed, the small shed and the greenhouse, etc., so as to achieve the required angles of the enterprise shed, the small shed and the greenhouse, and the adjustment angle does not need to be moved again by personnel; four movable rubber casters can be moved under the shed by the casters when the stages of drying enterprise shed, drying small shed and drying greenhouse are completed, so that the handling efficiency is improved and the labor cost is reduced.

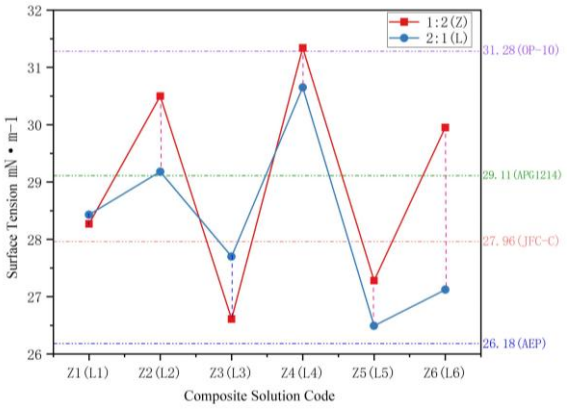



21: 2025/00531. 22: 2025/01/16. 43: 2025/07/22
51: C09K
71: Kunming University of Science and Technology
72: Xueming Fang, Lin Zhao, Xinhui Luo, Jiajia Zou, Gongbo Liu

**54: A COMPOSITE DUST SUPPRESSANT AND ITS APPLICATION**

00: -

The present invention relates to the field of coal mine dust suppression technology, specifically to a composite dust suppressant and its application. The dust suppressant is a mixture of any two of the following: polyethylene glycol octylphenol ether (JFC-C), polyoxyethylene octylphenol ether-10 (OP-10), lauryl alkyl glucoside (APG1214), and isooctanol polyoxyethylene ether phosphate ester (AEP(OPE-95)). By blending surfactants such as polyethylene glycol octylphenol ether (JFC-C), polyoxyethylene octylphenol ether-10 (OP-10), and lauryl alkyl glucoside (APG1214), the surface tension of water is effectively reduced. This reduction allows the dust suppressant to rapidly spread and cover the surface of dust particles, enhancing the wetting ability of water molecules on dust particles. Through the enrichment of surfactant molecules at the water-air interface, the interfacial energy is reduced, improving the spreading ability of water and significantly increasing the dust settlement efficiency.

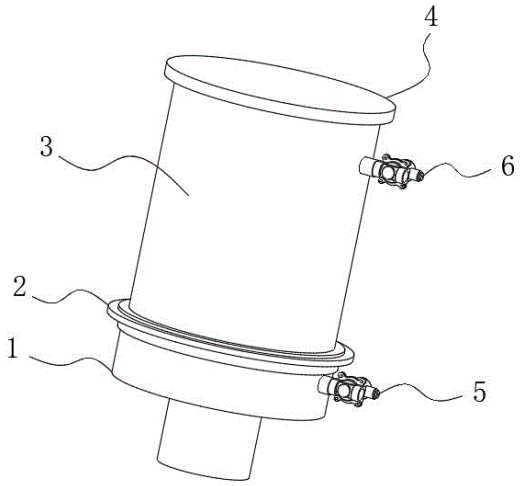



21: 2025/00532. 22: 2025/01/16. 43: 2025/07/25
51: C09B
71: XUZHOU COLLEGE OF INDUSTRIAL TECHNOLOGY, Jiangsu Nhwa Pharmaceutical Co., Ltd.
72: WU Xian, WU Hao, YANG Rui, LI Xiang
**54: PLANT DYE AND PREPARATION METHOD THEREOF**
00: -
The invention provides a plant dye and preparation method thereof, belongs to the technical field of dyeing material, the plant dye includes following components in parts by mass: 20-40 parts of mimosa plant dye solution, 10-30 parts of mahonia leaf pigment stock solution and 5-10 parts of natural modifier. According to the invention, dyes are extracted from mimosa, and the obtained plant dye has good color fastness and high dye uptake; the plant dyes provided by the invention not only contain dyeing components, but also have modified components; and when the plant dyes are added to fabrics containing components such as cellulose fibers, a temporary storage formed by the dyeing components and modified components is combined with the fabrics to form a stable dye-modifier-fiber structure, and the dye uptake and color fastness of the plant dyes are obviously improved. According to the invention, berberine natural dyes are extracted from mahonia leaves, and berberine with certain antibacterial performance is added into the dyes, so that the added value of textiles is improved, and the textiles have certain antibacterial effects.

21: 2025/00534. 22: 2025/01/16. 43: 2025/07/22
51: A23K; C08B
71: INNER MONGOLIA ACADEMY OF AGRICULTURAL & ANIMAL HUSBANDRY SCIENCES
72: LIU, Wei, LI, Shengli, WANG, Na, DAI, Lingli, ZHANG, Yuemei, PEI, Le, LI, Xue, ZHANG, Chunhua, LIU, Min, JIN, Lu, WU, Zhihong, DANG, Juan, WU, Rentaodi, TU, Buxinbilige
**54: FEED ADDITIVE OF ARTEMISIA DESERTORUM SPRENG POLYSACCHARIDE FOR PREGNANT FEMALE LIVESTOCK AND PREPARATION METHOD THEREOF**
00: -
The present invention discloses a feed additive of Artemisia desertorum Spreng polysaccharide for pregnant female livestock and a preparation method thereof, falling within the technical field of feed additives. The present invention uses Artemisia desertorum Spreng polysaccharide, wheat bran, Angelica sinensis, Rhodiola rosea, Eucommia ulmoides, bergamot, heartleaf houttuynia herb, Crataegus pinnatifida Bunge, Gentiana cruciata, yinqiao, Rubus idaeus, taurine, dried small shrimps, fish meal, cranberry powder, Cicer arietinum, hydroxymethyl cellulose, glucosamine hydrochloride, enzyme preparation and composite bacterial agents to prepare a feed additive. According to the present invention, a preparation method of the feed additive is simple, easy to operate, wide in raw material sources and relatively low in cost.

21: 2025/00535. 22: 2025/01/16. 43: 2025/07/25
51: C02F
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: HU Xiaoxian, LI Xinyu, ZHANG Di, WU Junfeng, LI Houyun, LI Ziang
**54: CAPACITIVE DESALTING DEVICE CONVENIENT TO DISASSEMBLE**
00: -
The invention discloses a capacitive desalting device convenient to disassemble, which comprises a base, wherein a mounting seat is detachably installed at the top of the base, a protective shell is detachably installed at the top of the mounting seat, a cover plate is installed at the top of the protective shell, and a filter assembly is detachably installed inside the protective shell; the mounting seat comprises a filter disc, the middle part of the filter disc is uniformly provided with filter holes, the bottom of the filter disc is fixed with a lower mounting head, the outer wall of the base is provided with external threads, and the

base is in threaded connection with the lower mounting head, and the top of the filter disc is fixed with an upper mounting head. The invention can be divided into three sections, and the glue can be further removed, and the filter assembly can be removed for replacement or cleaning, so that three-section separation is realized, and the cleaning is better; the driving of the stirring blades can be realized through the arranged driving motor, so that the water body can realize vortex in a rotating way, and the liquid can be mixed and stirred, thus preventing blockage caused by large particles.

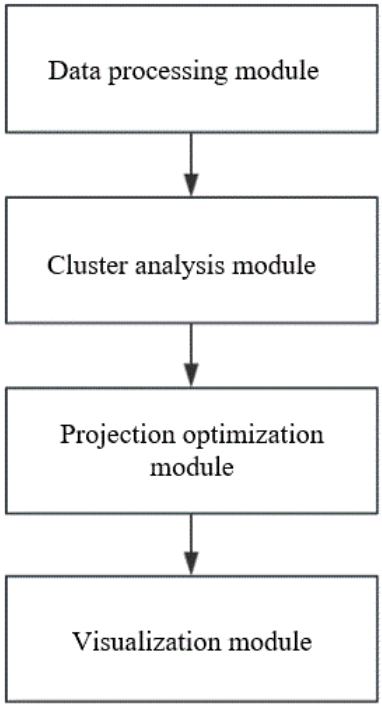



21: 2025/00536. 22: 2025/01/16. 43: 2025/07/22
51: G06Q
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: ZHANG Yao, CAI Jing, WANG Xiaohui, ZHOU Yiming, CHEN Meng, WANG Chaoyong, ZHAO Xupei, LI Qiuhong, CHEN Yao, LI Yajie

**54: MULTI-DIMENSIONAL DATA ANALYSIS AND VISUALIZATION SYSTEM BASED ON CLUSTERING ALGORITHMS**

00: -

The present invention relates to the field of data analysis and visualization, and provides a multi-dimensional data analysis and visualization system based on clustering algorithms, including: a data processing module, a cluster analysis module, a projection optimization module, and a visualization module. The data processing module is used for cleaning and standardizing multi-dimensional data, and generating a weight matrix based on the similarity between data points. The cluster analysis module performs cluster analysis on the data using various clustering algorithms to generate clustering results and cluster labels. The projection optimization module generates a low-dimensional projection result by jointly optimizing an objective function that includes a neighborhood structure preservation constraint and a clustering consistency constraint. The visualization module generates an interactive two-dimensional or three-dimensional visualization chart based on the low-dimensional projection result and the clustering results. The present invention realizes efficient cluster analysis and visual display of high-dimensional data, and has high analysis accuracy and interpretability.



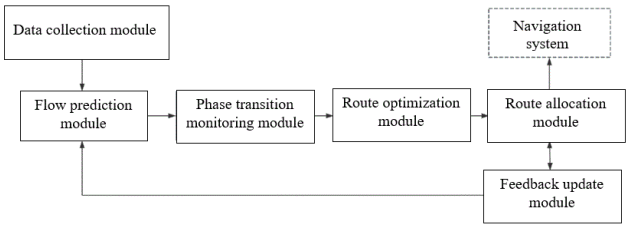

21: 2025/00537. 22: 2025/01/16. 43: 2025/07/22
51: H04L
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: ZHANG Yao, HAN Zongyuan, CAI Jing, WANG Xiaohui, KOU Mengtian, LIU Yuxiao, ZHANG Zilu, ZHAO Xupei, CHEN Yao, LI Yajie

**54: INTELLIGENT ROUTE ALLOCATION SYSTEM FOR REAL-TIME TRAFFIC FLOW OPTIMIZATION**

00: -

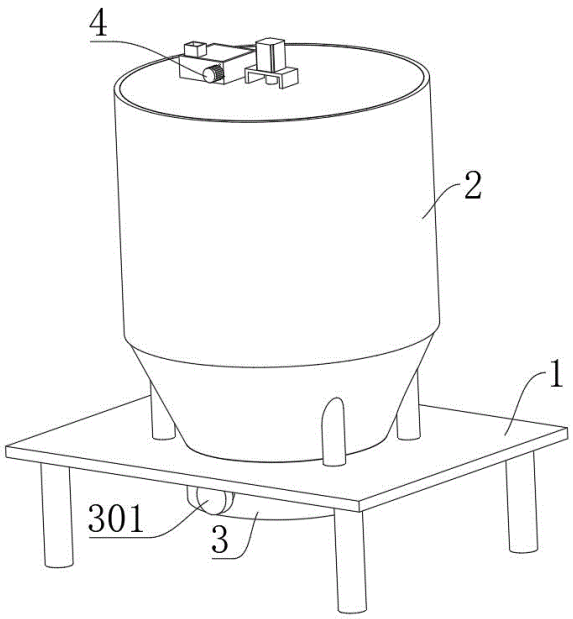
The present invention relates to the field of intelligent transportation and provides an intelligent route allocation system for real-time traffic flow optimization, including: a data collection module collects real-time traffic data; a flow prediction

module predicts traffic flow and vehicle flow density in future time periods; a phase transition monitoring module identifies the traffic flow state and determines the existence of a flow critical state or congestion risk in the current or future links; a route optimization module generates a route allocation scheme; a route allocation module provides dynamic navigation route information to vehicles according to the route optimization scheme; a feedback update module dynamically adjusts the parameters of the optimization model based on the actual traffic flow data and updates the route allocation scheme. The present invention realizes real-time optimization of traffic flow and dynamic route allocation, improves the overall traffic efficiency, and effectively avoids congestion.




21: 2025/00538. 22: 2025/01/16. 43: 2025/07/25
51: C02F
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: LI Xinyu, HU Xiaoxian, ZHANG Di, WU Junfeng, LI Houyun, LI Ziang
**54: CAPACITIVE DEIONIZATION DESALINATION TREATMENT DEVICE FOR WATER TREATMENT**
00: -

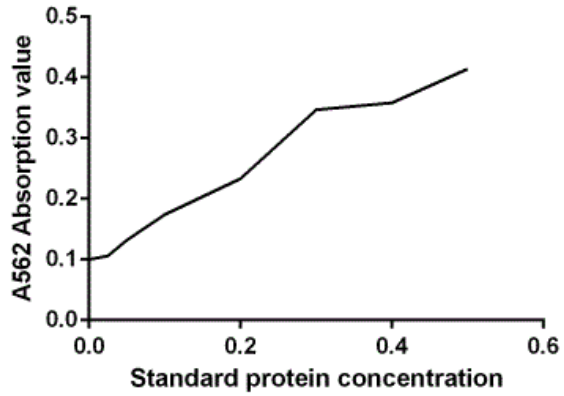
The invention relates to the technical field of sewage treatment, and discloses a capacitive deionization desalination treatment device for water treatment, including a base, characterized in that the top of the base is provided with a desalination device, the desalination device is internally provided with a stirring mechanism, a cleaning mechanism for cleaning the inner wall of the desalination device is arranged below the stirring mechanism, the top side of the desalination device is provided with a conveying mechanism for quantitatively conveying the solution, the top of the desalination device is provided with a driving device for driving the stirring mechanism, the conveying mechanism includes an installation shell fixed on the top side of the desalination device, the inner wall of one side of the installation shell is rotatably connected with a worm, the inner wall of one end of the installation shell is provided with a sliding chute. By arranging the conveying mechanism, when the motor is running, the two half gears will drive the moving block to move back and forth in the chute, and the moving block will drive the baffle to move back and forth at this time, thus achieving the effect of quantitative conveying of the solution.



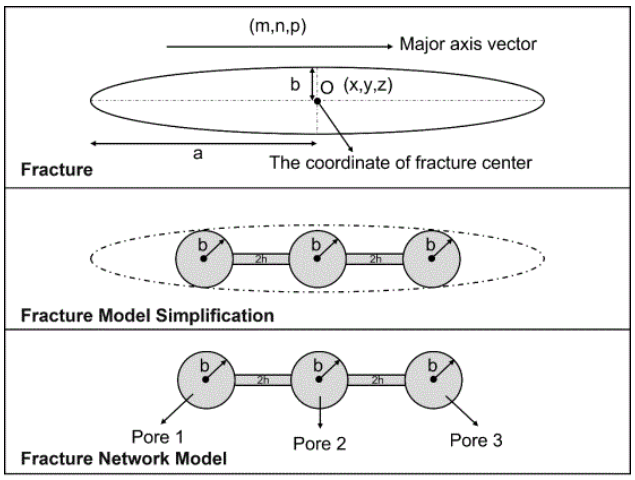

21: 2025/00539. 22: 2025/01/16. 43: 2025/07/22
51: A61K
71: Southwest University
72: Jia LUO, Qiang PU, Daiyu ZHANG, Zhenhao WEN, Taorun LUO, Zihan Ma
**54: APPLICATION FOR PORCINE UMBILICAL CORD BLOOD EXOSOME IN PREPARATION OF BIOLOGIC FOR REPAIRING SKIN INJURY**
00: -

An application for porcine umbilical cord blood exosome (PUCB-Exo) in a preparation of biologic for repairing skin injury is disclosed, which belongs to the field of molecular biology technology. The application for PUCB-Exo in preparation of biologic for repairing skin injury. The PUCB-Exo is used to repair one or more of the chronic acute skin injuries caused by radiation, diabetes, or burns. The biologic for repairing injured skin, wherein the biologic includes the PUCB-Exo. The present invention discloses the application for PUCB-Exo in the preparation of biologic for repairing skin injury, by regulating the inflammatory response, promoting

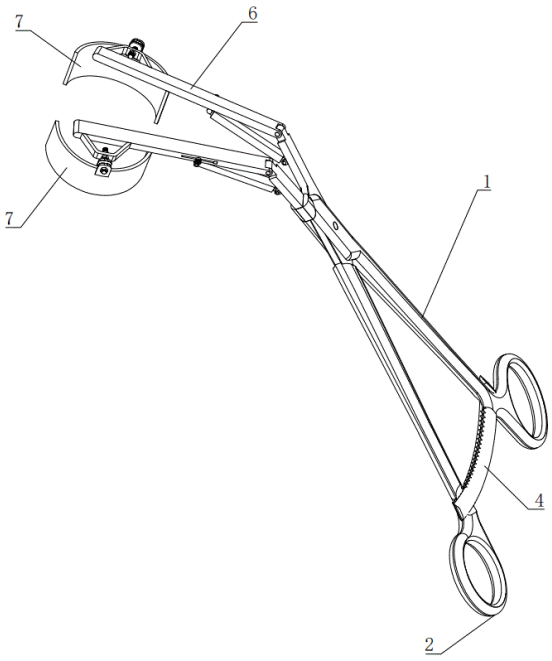
neovascularization, changing collagen deposition, promoting the proliferation and migration of fibroblasts, and then repairing and treating chronic acute skin injury caused by radiation, diabetes or burns.




21: 2025/00540. 22: 2025/01/16. 43: 2025/07/22
51: G06F
71: Nanchang Institute of Technology
72: Yuejian LU, Zebing ZHOU, Bin XU, Chu ZHANG, Jian FENG, Xipeng CHEN, Bo FENG
**54: DISCRETE FRACTURE MODEL BASED ON POROUS MEDIUM PORE NETWORK MODEL AND ADDING METHOD THEREOF**
00: -
A discrete fracture model based on a porous medium pore network model and an adding method thereof is disclosed, which belongs to the field of fluid migration technology in porous media, assuming that the fracture is an ellipse on a two-dimensional plane, its size is controlled by a long semi-major axis a and a semi-major axis b, a thickness of the fracture is set to 2h, a major-axis direction of the fracture is (m, n, p), a minor-axis direction is (i, j, k), and a coordinate of a center point of the fracture is set to (x, y, z); the discrete fracture model consists of two pores of the ellipse located in focus New_pore1 and New_pore3, the center point pore New_pore2, and the pore throats New_throat1 and New_throat2 between the three pores, and the radius of New_pore1, New_pore2 and New_pore3 are b, the radius of New_throat1 and New_throat2 are h, and the length is the half focal length of the ellipse. The present invention adopts the above-mentioned discrete fracture model based on the porous medium pore network model and adding method thereof, which has simple structure, convenient operation, and can efficiently simulate the effect of fracture development in porous media on the characteristics of the reservoir fluid flow.




21: 2025/00544. 22: 2025/01/16. 43: 2025/07/22
51: A61B
71: THE FIRST AFFILIATED HOSPITAL OF ZHENGZHOU UNIVERSITY
72: Liu Senyuan, Dai Quanwei, Ding Yalei, Qiu Xinguang
**54: A STRIPPING DEVICE FOR THYROID SURGERY**
00: -
The present invention discloses a stripping device for thyroid surgery, comprising a half forceps body, and two half forceps bodies are connected by a rotating shaft to form a relatively rotatable whole. The rear end of the half forceps body is provided with a handle, and the front end of the half forceps body is provided with a forceps mouth. The end of the forceps mouth away from the handle is provided with a support rod, and the end of the support rod away from the forceps mouth is provided with an expansion plate. An angle adjustment mechanism is provided between the support rod and the forceps mouth, and the angle adjustment mechanism is used to adjust the angle between the support rod and the forceps mouth. The angle adjustment mechanism comprises a hinge rod and a sliding seat, and the sliding seat is set to slide along the length direction of the support rod. One end of the hinge rod is set to rotate on the forceps mouth, and the other end is set to rotate on the sliding seat. This invention solves the problem The problem of requiring at least two medical staff to perform surgical operations in existing technology.

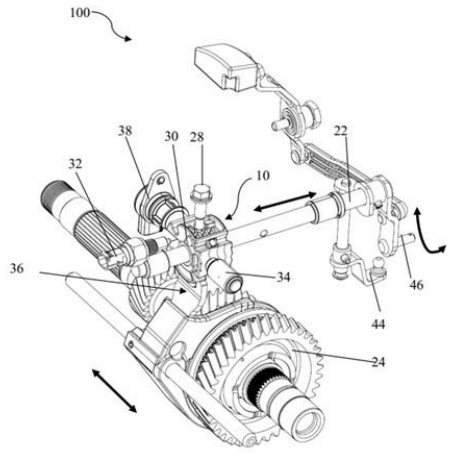



21: 2025/00545. 22: 2025/01/16. 43: 2025/07/22
51: F16H
71: MAHINDRA & MAHINDRA LIMITED
72: KISHORE, SELVAM, MUTHURAMAN, Ranganathan, SATHISHWARAN, Natarajan, DHANANJAYA, Rao Boita
33: IN 31: 202441053476 32: 2024-07-12

**54: A MULTI-FACETTED SHIFT FINGER AND A GEAR SHIFT ASSEMBLY FOR A VEHICLE**

00: -

The present disclosure refers to a multi-facetted shift finger for a shift tower (100) of a vehicle. The shift finger (10) being defined by an annular cylindrical body. The shift finger (10) comprises a plurality of surfaces defined by an arcuate-segment and is extending along the operative length of the shift finger (10); a groove (20a, 20b, 20c, 20d), configured to partition each of the surfaces and is extending along the operative length of the shift finger (10). The shift finger (10) is configured to be operably mounted on a rail (22) and is further configured to be displaced angularly and to move linearly with the movement of the rail to facilitate engagement and disengagement of gears in the gearbox of the vehicle.



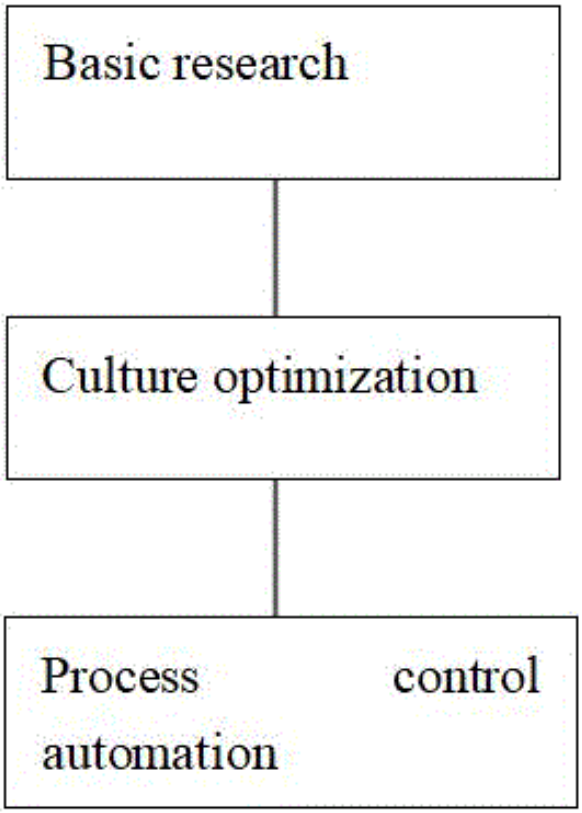

21: 2025/00546. 22: 2025/01/16. 43: 2025/07/22
51: C12P
71: Ji'an College
72: Zeng Qing, Peng Weifu, Yang Huan, Tang Hongying, Xie Chunlian, Yang Ziying, Tang Jun
33: CN 31: 2024117502812 32: 2024-12-02

**54: METHOD FOR IMPROVING SYNTHESIS EFFICIENCY OF NANO-SELENIUM MICROORGANISMS**

00: -

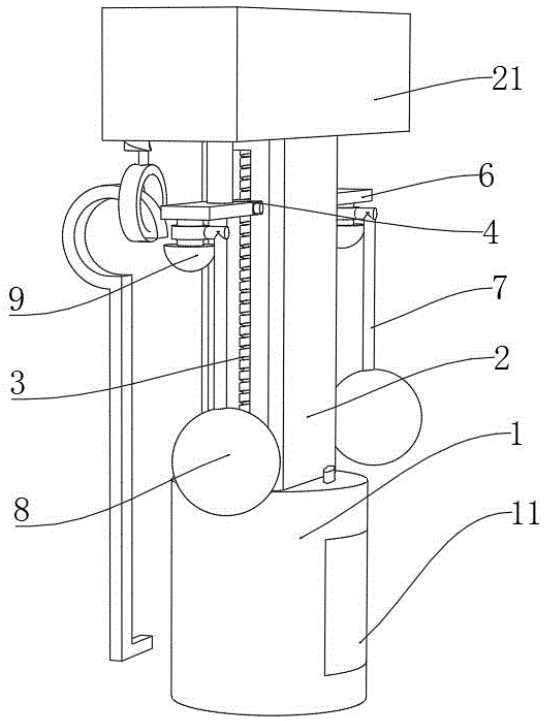
The present invention provides a method for improving synthesis efficiency of nano-selenium microorganism, including steps of basic research, culture optimization and process control automation. The basic research includes the steps of microorganism screening and identifying. The culture optimization includes the steps of culture medium optimization and culture condition optimization. The process control automation includes the steps of bioreactor design and automation and control. The microorganism screening and identification includes the steps of sample collection and selective culture. The culture medium optimization includes a response surface method and a step of adding an organic selenium source. In the present invention, through sample collection and selective culture, microbial strain with high-efficiency selenium reduction ability is screened out, and the selenium reduction efficiency is improved. The composition of the culture medium is optimized by adopting the method of response surface method and adding organic selenium source and the like to provide the best growth and selenium reduction environment for the microorganism, and growth rate and selenium reduction efficiency of the microorganism are further improved by optimizing

culture conditions such as temperature, pH value and oxygen concentration.



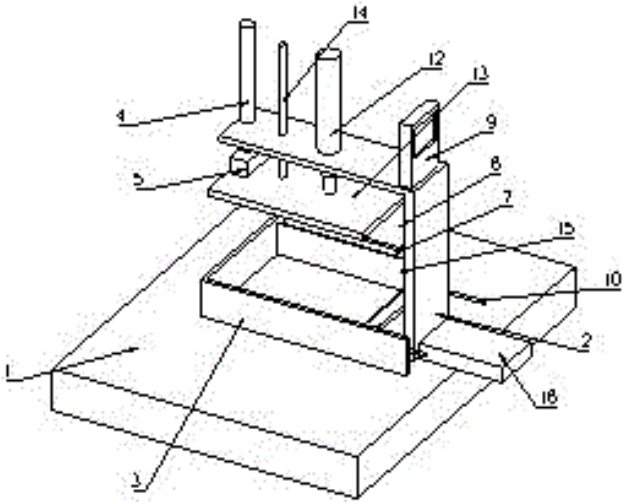

21: 2025/00547. 22: 2025/01/16. 43: 2025/07/22
51: A63B
71: Inner Mongolia University of Science Technology
72: Li Qinghua, Li Jiangong, Bai Nan
**54: JUGGLING AUXILIARY DEVICE FOR FOOTBALL TRAINING**
00: -

The present invention discloses a juggling auxiliary device for football training, comprising a cleaning tank, wherein brushes are fixedly connected to the inner walls of the cleaning tank, a second servo motor is fixedly connected to the top of the cleaning tank, a stirring rod is fixedly connected to the output end of the second servo motor, and brush rollers are fixedly connected to the outer rings of the stirring rod. In the present invention, the first servo motor drives the rotation of the stirring rod, causing the brush roller to stir and clean the surface of the football body. By using the brush on the inner wall of the cleaning tank, the surface of the football body can be thoroughly wiped and cleaned, thereby efficiently cleaning the surface of the football body.

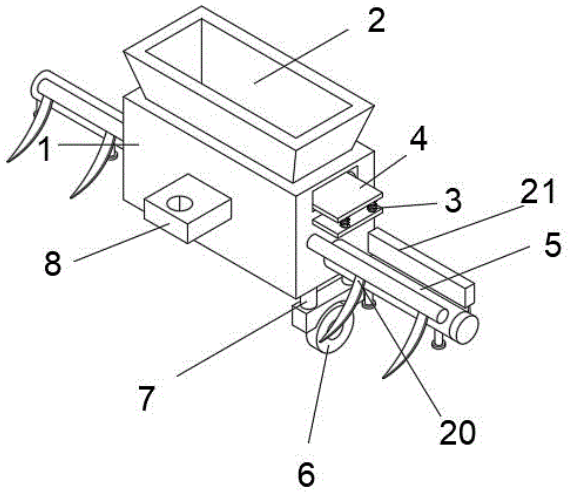



21: 2025/00548. 22: 2025/01/16. 43: 2025/07/22
51: B42B
71: Xinyu University
72: Chen Xiaoyun
**54: ARRANGEMENT DEVICE FOR FINANCIAL VOUCHERS**
00: -

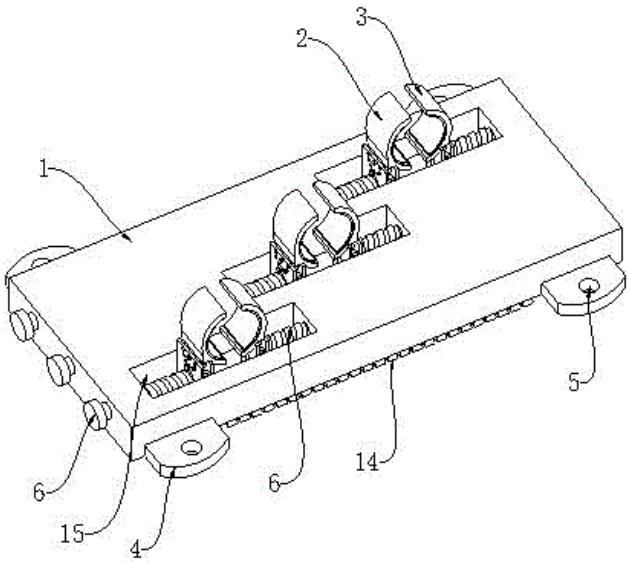
Disclosed is an arrangement device for financial vouchers, relating to the field of the vouchers arrangement equipment. A plate body is included, a fixing frame is fixed on the plate body, and the fixing frame is L-shaped; a limit frame is fixed on a side of the plate body, a hydraulic telescopic rod I is fixed to an end of the limit frame, and a binding machine is fixed to an telescopic end of the hydraulic telescopic rod; and a cylinder I is fixed on the plate body, an arrangement mechanism is arranged between the cylinder I and the fixing frame. Through the arrangement mechanism, the financial vouchers that have been put in can be arranged, reducing the manual arranging, which is convenient to arrange financial vouchers of different sizes, and can improve the efficiency of arranging and facilitate binding.



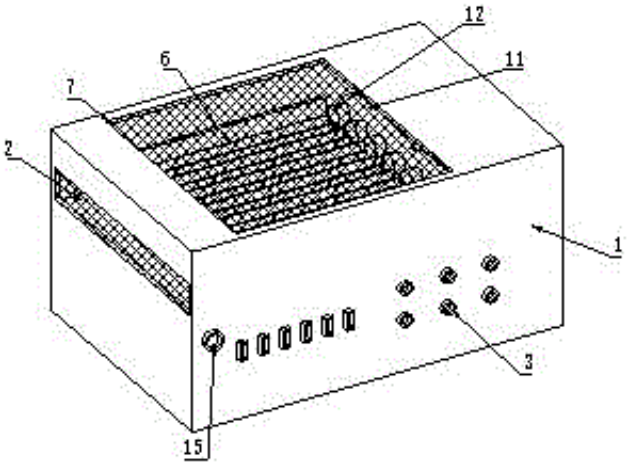

21: 2025/00549. 22: 2025/01/16. 43: 2025/07/22
51: A01G
71: Institute of Tropical Biotechnology, Chinese Academy of Tropical Agricultural Sciences
72: Cai Wenwei, Tan Xianjiao, Hu Siyang, Peng Lishun, Gan Yimei, Cao Zhengying, Wu Yuanli, Wang Yongzhuang
**54: FERTILIZER INJECTION DEVICE IN CULTIVATION OF SUGARCANE VIRUS-FREE ORIGINAL SEEDLING**
00: -
The present invention discloses a fertilizer injection device in cultivation of sugarcane virus-free original seedling, comprising a device main body, wherein a driving motor is fixedly connected at the middle of the inner bottom end of the device main body, a pointed cone is fixedly connected at the top end of the driving motor, and a gear disc is fixedly connected at the driving end of the driving motor. Both sides of the gear disc are meshed with bevel gears, and one end of the bevel gear is fixedly connected to a spiral roller; The top of both sides of the inner wall of the device main body are fixedly connected with triangular fixed blocks, and the bottom end of the triangular fixed block conflicts with a flip cover plate. The flip cover plate is fixedly connected with a tension spring at the bottom end away from the device main body, and the bottom end of the tension spring is fixedly connected with a fixed seat. Through the above structure, the middle trailer ring on one side of the device main body is connected to the tractor to achieve coupling and coordination. The drive motor is started, and the spiral roller circulates the fertilizer into the interior of the fertilizer pipe, which is then opened by an electric valve for fertilizer circulation operation.



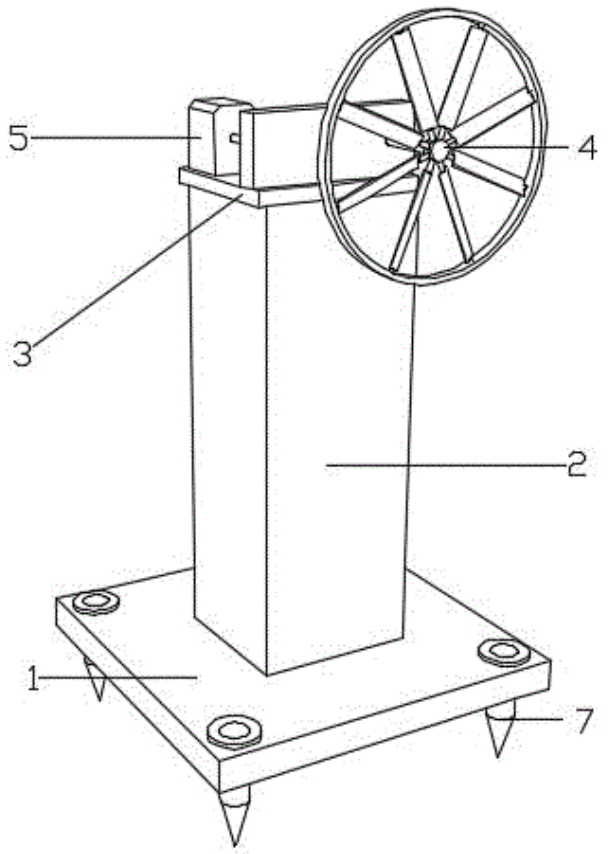

21: 2025/00550. 22: 2025/01/16. 43: 2025/07/22
51: H02G
71: Xinyu University
72: Luo Jun, Sun Yanping, Fu Kai, Wang Jiahui
**54: CABLE CLAMPING DEVICE FOR ELECTRONIC INFORMATION COMMUNICATION**
00: -
This application discloses a cable clamping device for electronic information communication, which relates to the field of cable installation technology. This application comprising an installation plate, a first clamping ring is installed on the installation plate, a second clamping ring is installed on the side of the clamping ring, the first clamping ring and the second clamping ring are symmetrically arranged, and an adjustment structure is provided between the installation plate and the first clamping ring and the second clamping ring, the fixed blocks are fixed at all four corners of the installation plate, and fixed holes are opened on the fixed blocks. By adjusting the structure, the distance between the first clamping ring and the second clamping ring can be adjusted, making it suitable for clamping restrictions on cables of different diameters, improving the applicability of the clamping device, and making it more convenient




21: 2025/00551. 22: 2025/01/16. 43: 2025/07/22
51: G06F
71: Xinyu University
72: Cai Lin, Jiang Hanbing
**54: BIG DATA ANALYSIS INFORMATION PROCESSING DEVICE WITH HIGH SECURITY**
00: -
The present application discloses a big data analysis information processing device with high security, which relates to the field of data analysis information processing technology, comprising a device body, an information processing component installed inside the device body, a plug connector fixed on one side of the device body and distributed in an array, and a power head fixed on the side of the device body away from the plug connector, there are fixed thermal columns and arranged in an array on the processing component. The thermal columns extend into the processing component, and a heat dissipation plate is fixed at the upper end of the thermal columns. The heat dissipation fins are fixed on the heat dissipation plate and arranged in an array. There are heat dissipation ports on both the upper and side surfaces of the device body, which correspond to the heat dissipation fins. A heat dissipation box is fixed inside the device body, and a heat dissipation mechanism is set between the heat dissipation box and the device body. By adopting the above technical solution and using a heat dissipation mechanism, it is easy to increase the heat dissipation effect of the processing device, reduce the accumulation of heat, minimize the impact on operating speed, and reduce the impact on operating quality and lifespan.




21: 2025/00552. 22: 2025/01/16. 43: 2025/07/22
51: F03D
71: Xinjiang Engineering Institute
72: Yin Cui, Shi Qian, Yin Chao, Gao Jia, Xing Liqiang
**54: WIND TURBINE POWER PREDICTION DEVICE**
00: -
Disclosed is a wind turbine power prediction device in the present invention, including a supporting seat, a power machine and a motor. A fixing block is fixedly connected to one end above the supporting seat, a lifting mechanism for adjusting height is arranged at one end of an interior of the fixing block, a prediction assembly for testing is arranged at one end above the lifting mechanism, and fixing stakes penetrates through and are arranged at four ends of an interior of the supporting seat; and in the present invention, the height of the prediction assembly may be lifted through the lifting mechanism and the motor, better predicting more true and accurate data, and avoiding the occurrence of data deviation caused by different heights.




21: 2025/00553. 22: 2025/01/16. 43: 2025/07/23
51: G06T
71: SHANDONG UNIVERSITY
72: LIU, Jingting, SONG, Yongxing, JIANG, Bo, WANG, Yuxin, CHEN, Pengchen

**54: THREE-DIMENSIONAL VISUALIZATION IMAGING DEVICE FOR BUBBLE AND THREE-DIMENSIONAL RECONSTRUCTION METHOD FOR BUBBLE BASED ON OPTICAL PATH OBSERVATION**

00: -

The present invention discloses a three-dimensional visualization imaging device for a bubble and a three-dimensional reconstruction method for a bubble based on optical path observation, and relates to the technical field of image information processing. The three-dimensional visualization imaging device includes a bubble imaging module, a camera, and a processing module; the bubble imaging module includes a first LED lamp, a water tank, a first adjustable mirror, a first fixed mirror, an injection pump, a second LED lamp, a second adjustable mirror and a second fixed mirror and is configured to generate a target bubble; the camera is configured to capture images of the target bubble at different viewing angles; and the processing module includes a computer and is configured to process the captured target bubble. Based on the three-dimensional visualization imaging device, the present invention can reconstruct a bubble morphology while obtaining the bubble motion trajectory, and can effectively simulate the three-dimensional morphological evolution and motion trajectory of a bubble during the rising process; which effectively solves the defects such as complex measurement and calculation and limited imaging area, simplifies the implementation principle, improves applicability and operability, and reduces costs.

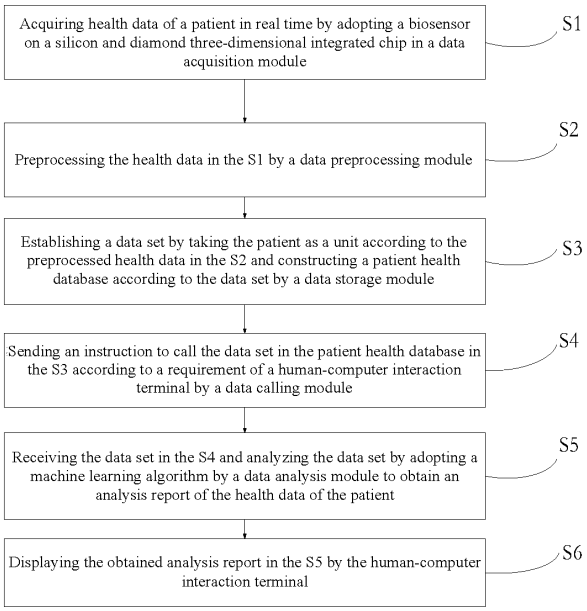
21: 2025/00554. 22: 2025/01/16. 43: 2025/07/23
51: G02F; G06F
71: ZHOU, Weiping
72: LIU, Enping, LIU, Yidi, TAN, Ping, LIU, Sujun, WANG, Shengxiang

**54: HEALTH DATA MANAGEMENT METHOD AND SYSTEM BASED ON SILICON AND DIAMOND THREE-DIMENSIONAL INTEGRATED CHIP**

00: -

The present invention discloses a health data management method and system based on a silicon and diamond three-dimensional integrated chip, and relates to the technical field of health management. The method comprises: acquiring health data of a patient in real time by adopting a biosensor on a silicon and diamond three-dimensional integrated chip in a data acquisition module; preprocessing the health data by a data preprocessing module; establishing a data set by taking the patient as a unit according to the preprocessed health data and

constructing a patient health database according to the data set by a data storage module; sending an instruction to call the data set in the patient health database according to a requirement of a human-computer interaction terminal by a data calling module; receiving the data set and analyzing the data set by adopting a machine learning algorithm by a data analysis module to obtain an analysis report of the health data of the patient; and displaying the obtained analysis report by the human-computer interaction terminal. The present invention helps to apply a three-dimensional integrated chip based on silicon and diamond to realize the acquisition and analysis of user health data.




21: 2025/00558. 22: 2025/01/16. 43: 2025/07/23
51: C04B
71: Miluo Fuyuan New Materials Co., Ltd
72: Jiufu YANG, Botao GU
33: CN 31: 2023117186859 32: 2023-12-14
**54: REPAIR AGENT AND REPAIR METHOD FOR GRAPHITE CRUCIBLE**
00: -
The present invention discloses a repair agent and repair method for graphite crucibles, the repair agent is a two-component repair agent comprising an interface repair agent and a surface layer repair agent; the interface repair agent is prepared from graphite powder, paraffin oil, asphalt powder, pyridine, and SiC-Y2O3 slurry; the surface layer repair agent is prepared from petroleum coke powder, graphite powder, asphalt powder, and resin material; the corresponding graphite crucible repair method uses the repair agent to repair the damaged area of the damaged graphite crucible, firstly, coating the interface repair agent onto the damaged area of the damaged graphite crucible, after coating, covering the coated area with aluminum foil, wrapping the fiberglass mesh fabric for pre-curing treatment, then using the surface layer repair paste to finally complete the repair work of the graphite crucible. The repair agent and repair method of the present invention exhibit excellent repair effects on damaged graphite crucibles and can be used to extend the service life of damaged graphite crucibles.

21: 2025/00560. 22: 2025/01/16. 43: 2025/07/23
51: A61K; C07C; A61P
71: AKUMS DRUGS & PHARMACEUTICALS LIMITED
72: JAIN, Sanjeev, JAISWAL, Sunil, CHAUDHARY, Arun, PAL, Krishna
33: IN 31: 202311063613 32: 2023-09-20
**54: ROOM STABLE HYDROXYUREA ORAL SUSPENSION**
00: -
The present invention provides a liquid composition comprising effective amount of Hydroxyurea for oral administration. The invention further discloses liquid formulation in form of ready to use oral suspension which remains stable at room temperature at the time of dispensing, storage and even after reopening of the container comprising the suspension. Also provided is a method of preparing the formulation and treating sickle cell anemia in pediatric patients.

21: 2025/00575. 22: 2025/01/16. 43: 2025/07/23
51: A23K; C08B
71: INNER MONGOLIA ACADEMY OF AGRICULTURAL & ANIMAL HUSBANDRY SCIENCES
72: LI, Shengli, LIU, Wei, ZHANG, Chunhua, ZHANG, Chongzhi, SA, Chula, JIN, Lu, BAO, Hua, LI, Wenting, SUN, Haizhou, AI, Dong, LIU, Zhiyou, TU, Buxinbilige
**54: ARTEMISIA SPHAEROCEPHALA KRASCH. POLYSACCHARIDE FEED ADDITIVE FOR IMPROVING SHEEP IMMUNITY AND PREPARATION METHOD THEREOF**

00: -
The present invention discloses an Artemisia sphaerocephala Krasch. polysaccharide feed additive for improving sheep immunity and a preparation method thereof, which belongs to the field of feed additive. The feed additive is composed of the following raw materials: 10-15 parts of Artemisia sphaerocephala Krasch. polysaccharide, 5-10 parts of fucoidan, 5-8 parts of Radix Glycyrrhizae, 1-5 parts of Nitraria fruit, 2-5 parts of Rhizoma Atractylodis Macrocephalae, 2-5 parts of Cordyceps militaris, 0.5-3 parts of yeast powder, 0.5-3 parts of bee pollen, 1-5 parts of Camellia sinensis, 1-3 parts of Cinnamomum cassia Presl, 0.5-2 parts of fish oil, 2-5 parts of multivitamins, 2-5 parts of compound fermentation broth, and 15-30 parts of soybean meal. The present invention not only have prominent technical advantages, but also have significant economic and social value, and are of great significance for promoting the development of breeding industry.

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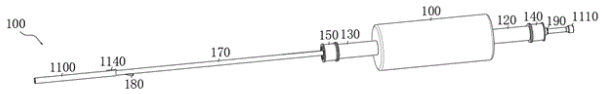
21: 2025/00576. 22: 2025/01/17. 43: 2025/07/23
51: A61M
71: THE FIRST AFFILIATED HOSPITAL OF SOOCHOW UNIVERSITY
72: PENG,ke, YANG,Yufan, MENG, Xiaowen, SHAN, Xisheng, LIU, Huayue, YANG, Guowang, MA, Zhengmin, JI, Fuhai
33: CN 31: 202411820729.3 32: 2024-12-11
**54: TRANSVALVULAR BLOOD PUMP**
00: -
The present disclosure relates to a transvalvular blood pump, including a pump body, an input tube, an output tube, a first one-way valve, a second one-way valve, a sac, a catheter, a third one-way valve, a fourth one-way valve and a pressure generating mechanism, where the pump body includes a first accommodating space, a first opening communicating with the first accommodating space and a second opening communicating with the first accommodating space are provided on the surface of the pump body, one end of the input tube is connected to the first opening of the pump body, and one end of the output tube is connected to the second opening of the pump body.

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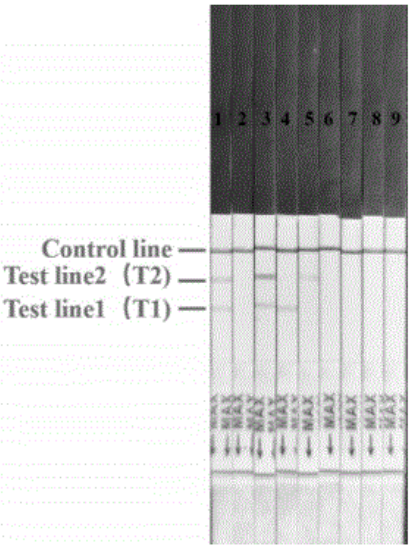
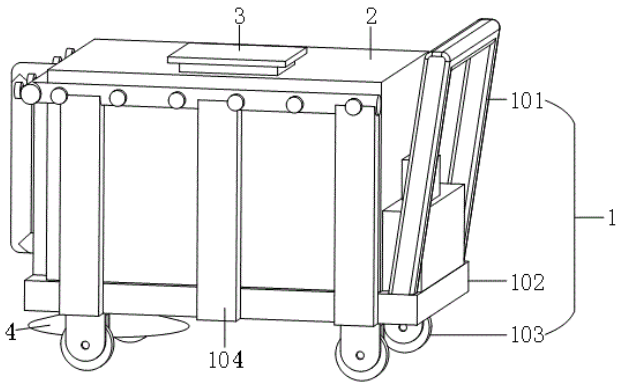
21: 2025/00577. 22: 2025/01/17. 43: 2025/07/23
51: C12Q
71: Shanxi Agricultural University
72: HE, Junping, SHENG, Ruimin, HU, Wanxing, ZHU, Qi, ZHANG, Yaning, JI, Shusen, YANG, Yulong, WANG, Hui
**54: PRIMER SETS FOR DETECTING VIRULENCE GENES OF CLOSTRIDIUM PERFRINGENS BASED ON DOUBLE LOOP-MEDIATED ISOTHERMAL AMPLIFICATION, AND KIT AND DETECTION METHOD THEREOF**
00: -
Primer sets for detecting virulence genes of Clostridium perfringens based on double loop-mediated isothermal amplification (LAMP), and a kit and a detection method thereof are provided, which belong to the field of biotechnology. The primer sets include a primer set for detecting the cpb virulence gene and a primer set for detecting the etx virulence gene. The primer sets can be used for specifically detecting the cpb and etx virulence genes, thereby realizing identification and classification of C. perfringens type B, type C, and type D. A non-diagnostic method for classifying C. perfringens is provided, which combines double LAMP with a lateral flow chromatographic test strip, to realize simultaneous detection of the cpb and etx virulence genes with a visual detection result.




21: 2025/00578. 22: 2025/01/17. 43: 2025/07/23
51: C12N
71: Shandong Agricultural University
72: SU, Yinghua, ZHANG, Xiansheng, TANG, Liping, ZHAI, Liming, GAO, Yue, MENG, Shuran, LI, Xinyu
33: CN 31: 202411806163.9 32: 2024-12-10
**54: METHOD FOR INDUCING MULTIPLE TYPES OF SOMATIC CELLS TO UNDERGO FATE TRANSITION AND DIRECTLY DEVELOP INTO SOMATIC EMBRYOS AND APPLICATION**
00: -
Disclosed are a method for inducing multiple types of somatic cells to undergo fate transition and directly develop into somatic embryos and application. The present invention finds functional genes SPCH (AT5G53210) and ARF5 (AT1G19850) which can promote multiple types of somatic cells to undergo transition into totipotent stem cells. Overexpression of a totipotent regulatory factor LEC2 can induce formation of the somatic embryos on Arabidopsis thaliana cotyledons, and under the background, the functional genes are expressed ectopically. Without calluses, overexpression of the SPCH can transform more Arabidopsis thaliana cotyledon cells into totipotent stem cells, and also transform shoot apical meristem cells, hypocotyl cells and root cells into totipotent stem cells. Overexpression of the ARF5 can transform more Arabidopsis thaliana cotyledon cells into the totipotent stem cells, and also transform the shoot apical meristem cells and the root cells into the totipotent stem cells.

21: 2025/00579. 22: 2025/01/17. 43: 2025/07/23
51: A01G
71: Gansu Agricultural University
72: Lixiang WANG, Chunchun LI, Lei LIU, Suqin SHANG, Xiaoxiao CHEN
**54: HIGH-EFFICIENCY MOVABLE INSECT-REPELLENT DEVICE FOR PLANTS**
00: -
The invention discloses a high-efficiency movable insect-repellent device for plants, which relates to the field of the insect-repellent technology for plants. The device includes a mobile device, a weeding device, a drug storage tank, a stirring device, a spraying device, and a battery, the weeding device is arranged below the mobile device, the drug storage tank is arranged above the mobile device, the stirring device is arranged in the drug storage tank and connected to the drug storage tank, the top of the drug storage tank is provided with a dosing port, the three sides of the spraying device are arranged on the mobile device and are flush with the height of the drug storage tank, and the battery is arranged on the mobile device. The invention adopts the high-efficiency movable insect-repellent device for plants with the above structure to solve the problem that the existing insect-repellent device is not easy to move in the forest and the spraying efficiency is low.




21: 2025/00580. 22: 2025/01/17. 43: 2025/07/23
51: E21D
71: China Construction Fifth Engineering Division Corp., Ltd, China Construction Fifth Engineering

Bureau (Qingdao) Construction Engineering Co., Ltd., China Construction Infrastructure Co., Ltd.
72: HE, Laisheng, LIU, Xiaoliang, WANG, Guangqun, CHEN, Youtong, WANG, Xirui, ZHU, Baohe, HUANG, Zuowan, GONG, Zhengjun, WANG, Minggang, YU, Longtao, GAO, Tianxiang, YIN, Hengqi, LV, Yifei

**54: METHOD FOR INSTALLING A PREFABRICATED SUBWAY STATION**

00: -

The present invention relates to the technical field of prefabricated station installation, and in particular to a method for installing a prefabricated subway station, comprising the following steps: S1: constructing a subway station information model; S2: prefabricating all prefabricated components of the prefabricated station; S3: initial installation of prefabricated components; S4: strengthening node connections; S5: waterproofing of the joints of adjacent prefabricated components; and S6: post-installation acceptance. Sensors are arranged in each prefabricated component in the construction method. After the actual installation is completed, strain sensors can be installed in the prefabricated subway components to measure the stress borne by the components in real time, and to achieve displacement monitoring and crack monitoring. For the side wall components of the prefabricated subway station, groundwater pressure or temperature changes may cause cracks. Timely discovery of cracks and evaluation of their development trends are helpful to take appropriate waterproofing and reinforcement measures to avoid groundwater leakage and reduced structural durability.

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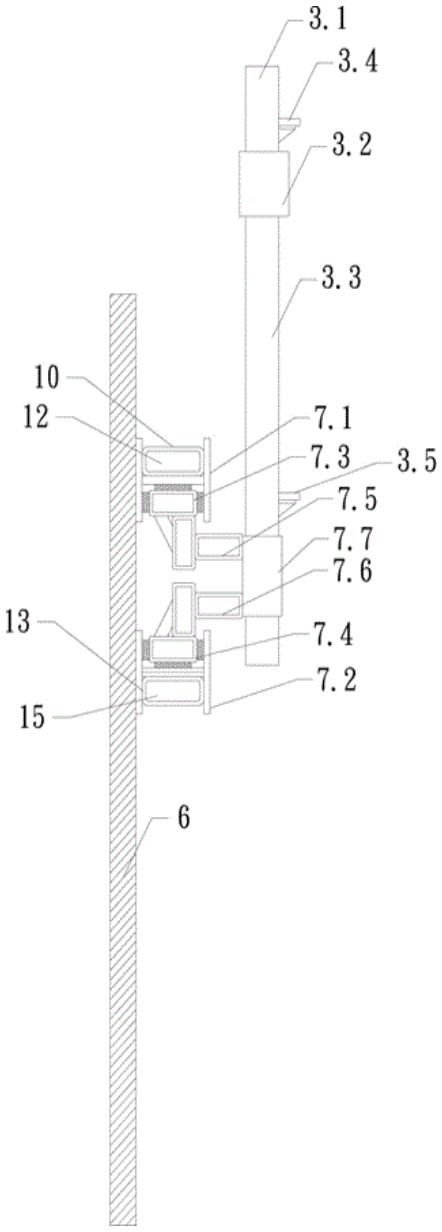
21: 2025/00581. 22: 2025/01/17. 43: 2025/07/23
51: E02D
71: China Construction Fifth Engineering Division Corp., Ltd, China Construction Infrastructure Co., Ltd., China Construction Fifth Engineering Bureau (Qingdao) Construction Engineering Co., Ltd.
72: WANG, Xirui, LIU, Xiaoliang, HE, Laisheng, CHEN, Youtong, ZHU, Baohe, WANG, Guangqun, HUANG, Zuowan, GONG, Zhengjun, WANG, Minggang, YU, Longtao, GAO, Tianxiang, JI, Hongkui, SUN, Pengfei

**54: DEEP FOUNDATION PIT SUPPORT STRUCTURE**

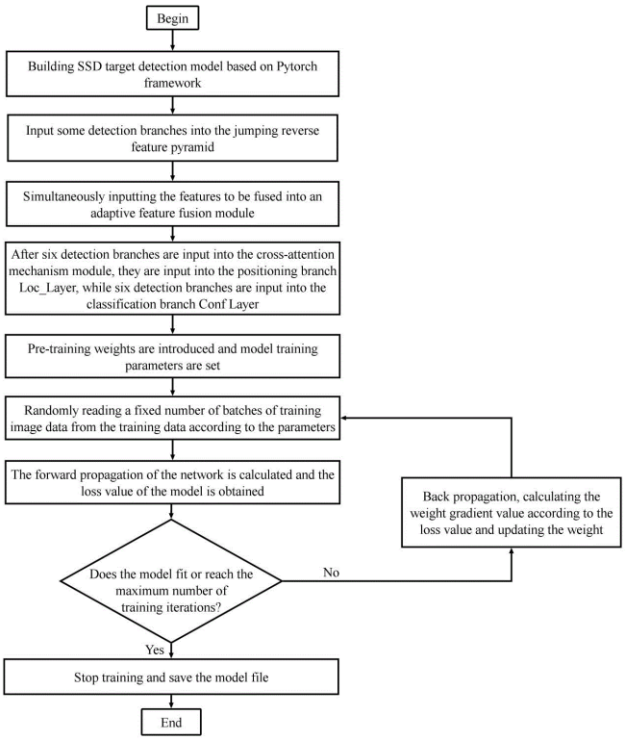
00: -

The present invention relates to a deep foundation pit support structure, belonging to the technical field of building construction. The deep foundation pit support structure includes a purlin assembly A, a purlin assembly B and a support assembly for supporting the purlin assembly, which are arranged in the foundation pit. The support assembly includes a top support beam which is located above the foundation pit and is arranged horizontally. The top support beam is provided with a vertical support column A for supporting the purlin assembly A and a vertical support column B for supporting the purlin assembly B. The purlin assembly A includes a plurality of groups of adjacently arranged guardrail panels A, and the adjacent guardrail panels A are connected by guardrail panel connectors A. The purlin assembly B includes a plurality of groups of adjacently arranged guardrail panels B, and the adjacent guardrail panels A are connected by guardrail panel connectors B. The beneficial effects of the present invention are as follows: the purlin assembly A and the purlin assembly B used for supporting the foundation pit are split structures, which are convenient to transport, and a plurality of groups of guardrail panels A can be spliced by the guardrail panel connectors A, thereby improving the bearing capacity of the connection nodes of the guardrail panels A.



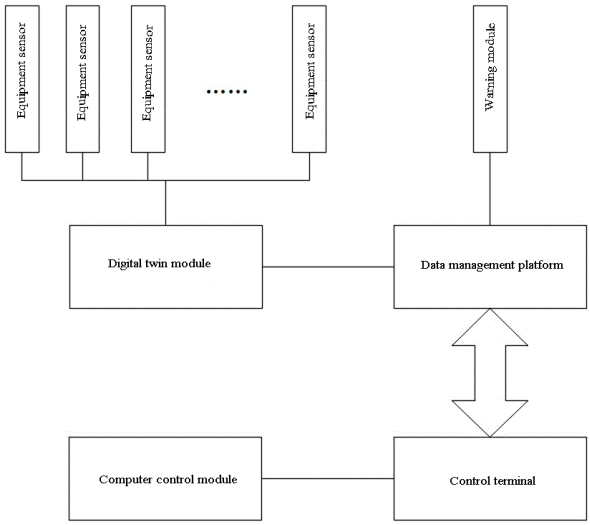

21: 2025/00582. 22: 2025/01/17. 43: 2025/07/23
51: G01N
71: Yangtze Normal University
72: CHEN, Yun, YI, Yong, HUANG, Qian
**54: SELF-POWERED MULTIFUNCTIONAL PIEZOELECTRIC INTELLIGENT AGGREGATE, AND MANUFACTURING METHOD AND APPLICATION THEREOF**
00: -
The present invention provides a self-powered multifunctional piezoelectric intelligent aggregate, and a manufacturing method and application thereof, which belong to the technical field of asphalt pavement health monitoring. The self-powered multifunctional piezoelectric intelligent aggregate includes a piezoelectric device for pavement, an encapsulating container and a shielding wire, where the encapsulating container is manufactured from epoxy resin 6200A, a curing agent 6200B and quartz powder, the piezoelectric device for pavement includes a copper foil substrate and a piezoelectric material for pavement loaded on one side of the copper foil substrate, and the piezoelectric material for pavement includes asphalt, piezoelectric ceramic powder PZT 5-X and conductive carbon black.

21: 2025/00583. 22: 2025/01/17. 43: 2025/08/04
51: G06K
71: LIAONING TECHNICAL UNIVERSITY
72: LI Jiandong, LI Jiaqi, GAO Xingqi, PAN Yuanyang
**54: PEDESTRIAN RECOGNITION METHOD FOR ROAD SCENES BASED ON ATTENTION MECHANISM**
00: -
The invention discloses a pedestrian recognition method for road scenes based on attention mechanism, which includes the following steps: acquiring an image to be recognized; Inputting the image to be recognized into a target detection model to obtain a detection result, where the target detection model is constructed based on an attention mechanism, and the target detection model is used for detecting local salient features of the image, and obtaining the detection result according to the acquaintance degree of the local salient features. Aiming at the problem that the multi-scale prediction feature layers of the SSD model are independent of each other, the invention studies the feature extraction mode of the model to solve the effective integration of key information of each detection branch.



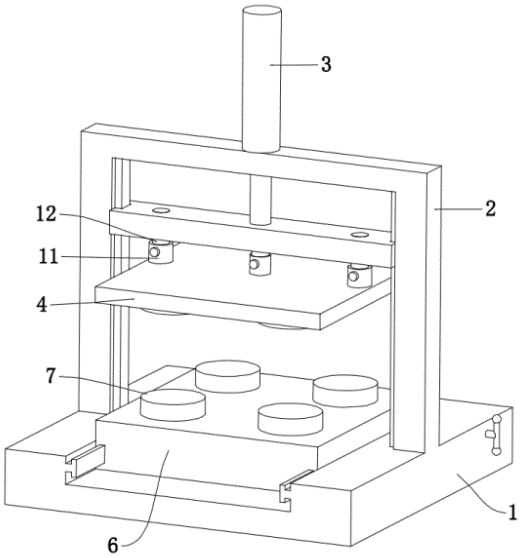

21: 2025/00584. 22: 2025/01/17. 43: 2025/07/23
51: G06K
71: China Railway No. 4 Engineering Group Co., Ltd., The Fourth Engineering Co., ltd. of CTCE Group
72: JIA, Kai, DU, Mei, JIN, Rongwei, YUAN, Zhengpu, ZHU, Hongbo, YANG, Wenjie, DU, Fa, ZHANG, Jie, GUO, Guohui
33: CN 31: 2024118388265 32: 2024-12-13
**54: SYSTEM AND METHOD FOR MONITORING CONSTRUCTION NEAR EXISTING RAILWAYS**
00: -

The present invention provides a system for monitoring the construction near existing railways; a plurality of the equipment sensors are respectively located on moving parts of the construction equipment, and are used to monitor operation action information of the construction equipment; the equipment sensors transmit the operation information of the construction equipment to the digital twin module to form a twin model for digital twinning of the construction equipment; the data management platform is connected to the digital twin module data to predict the danger of subsequent actions of the twin model and generate construction equipment operation commands based on prediction results. The present invention conducts comprehensive and real-time monitoring of the status of construction equipment, which is an important measure to ensure the safety of construction sites of railways close to existing lines and by real-time monitoring of the status of equipment, abnormal conditions of equipment can be discovered in time.




21: 2025/00585. 22: 2025/01/17. 43: 2025/07/23
51: B29C
71: Zhongshan Jiancheng Plastic Technology Co., Ltd.
72: Ping Jiang
**54: GATE CUTTING DEVICE FOR PLASTIC PRODUCTS**
00: -

A gate cutting device for plastic products, comprising a workbench, a top wall of the workbench is provided with a support frame, a telescopic member is arranged on the support frame, a bottom end of the telescopic member is detachably connected to a support plate, cutting knives are arranged on a bottom wall of the support plate, and a bracket corresponding to the support plate is detachably arranged on the top wall of the workbench, the bracket is provided with bosses corresponding to the cutting knives.

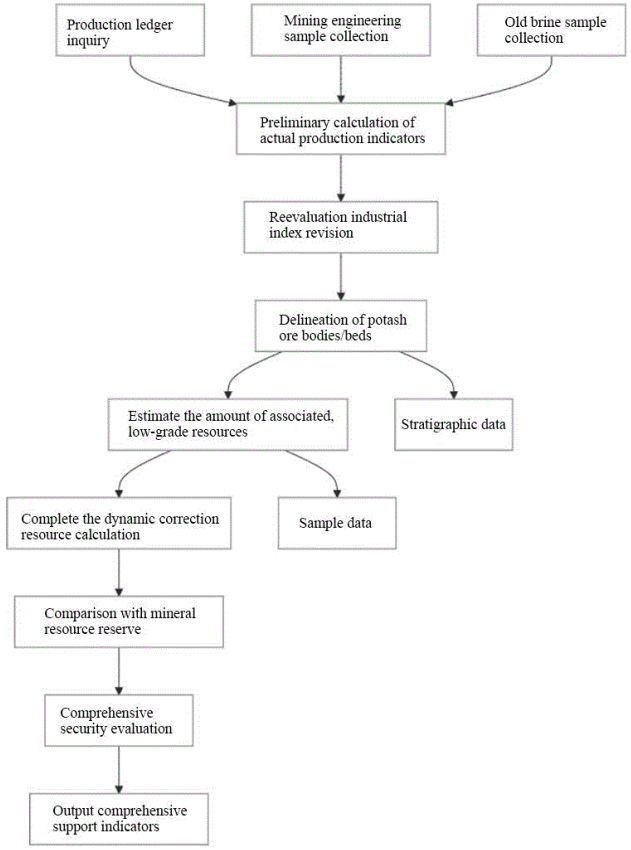



21: 2025/00586. 22: 2025/01/17. 43: 2025/07/23
51: G06Q
71: Qinghai Qaidam Comprehensive Geological and Mineral Exploration Institute, Qinghai Geological Survey, Qinghai Provincial Geological Survey Institute
72: Zhicheng Jing, Shanbin Bao, Chengwu Jiang, Jiubo Liu, Yuzhen Yang

**54: A REEVALUATION METHOD OF LOW GRADE AND SALT LAKE TYPE POTASSIUM SALT MINERALS CO-ASSOCIATED RESOURCES**

00: -

The invention discloses a reevaluation method of low grade and salt lake type potassium salt minerals co-associated resources, belonging to the technical field of mineral resources evaluation. The method includes five steps: calculation of actual production index, revision of reevaluation industrial index, delineation of ore body, estimation of resources and comprehensive support evaluation. The sampling data and environmental parameters are dynamically corrected by the production index correction algorithm, and the preliminary industrial index is generated. The precision calibration algorithm of industrial index is used to correct the preliminary industrial index and get the re-evaluation industrial index. The ore body spatial distribution model is generated by the ore body distribution delineation algorithm combined with geological stratification data. The resource quantity estimation algorithm is used to calculate and dynamically modify the resource quantity. The comprehensive guarantee index is generated by resource quantity comparison algorithm and comprehensive resource guarantee algorithm to quantify resource exploitation potential. The invention has the characteristics of high evaluation accuracy, strong dynamic adjustment ability and whole process optimization, and is suitable for scientific evaluation and comprehensive development of low grade resources associated with salt lake type potassium salt mine.



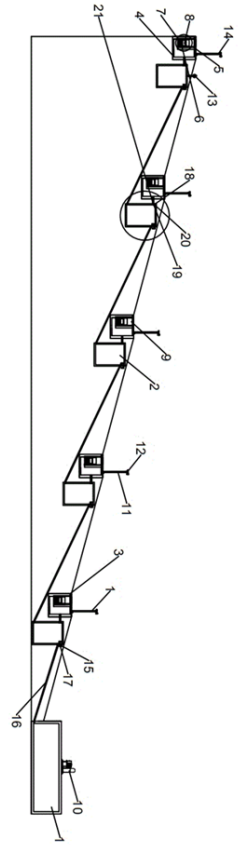

21: 2025/00587. 22: 2025/01/17. 43: 2025/08/04
51: E02D
71: Henan University of Urban Construction
72: WANG Yong, LI Songfeng, JIANG Zhongfeng, WU Li, LIANG Feng, TIAN Junfeng, ZHANG Peixin, DONG Wenchao, CHEN Guofeng, LI Shuaiqi

**54: MINE WATER STORAGE SPRAYING DEVICE FOR ECOLOGICAL RESTORATION**

00: -

The invention discloses a mine water storage spraying device for ecological restoration, which includes a reservoir, a plurality of water storage tanks with the same structure and a plurality of drainage grooves with the same structure, where the drainage grooves are uniformly installed on the mine, are respectively connected with the water

storage tanks, are connected with the water storage tanks through a differential drainage structure, are respectively provided with filtering structures, and are respectively provided with spraying structures; the invention has the beneficial effects that the excess water on the ore is collected through the filtering structure and the potential difference drainage structure, and when the humidity of the ore is lower than the set value, the liquid in the reservoir and a plurality of water storage tanks is sprayed on the mine through the spraying structure, so that the water on the mine can be recycled, and the water flow rate is avoided; meanwhile, a large amount of water flow rate is avoided through the siphon principle, and the water consumption is reduced as much as possible.

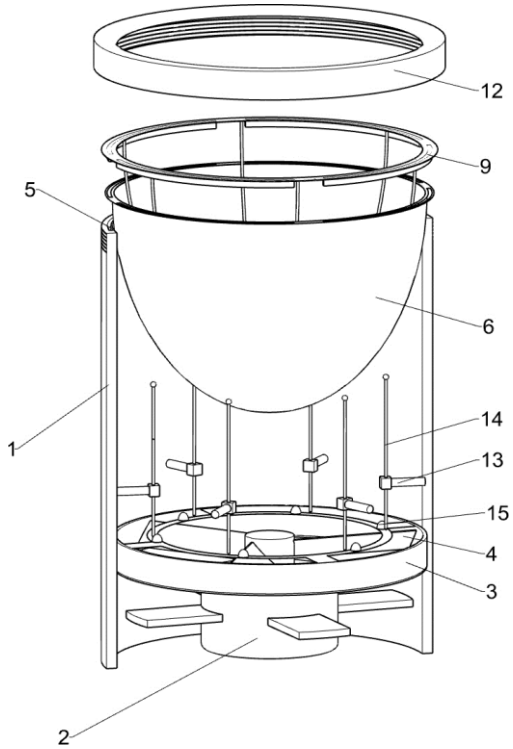



21: 2025/00588. 22: 2025/01/17. 43: 2025/07/23
51: E21F
71: Henan University of Urban Construction
72: Hao Yang, Rongfu Peng

**54: A VENTILATION DEVICE FOR SAFETY IN NON-COAL MINES**

00: -

The present invention relates to the technical field of non-coal mines, and more particularly to a ventilation device for safety in non-coal mines. The device includes a ventilation duct, wherein the lower part inside the ventilation duct is connected to a motor through a mounting base. The inner wall of the ventilation duct is rotatably connected to a rotating frame, and fan blades connected to the motor output shaft are fixedly attached to the inner periphery of the rotating frame at equal intervals. The top of the ventilation duct is circumferentially and equidistantly provided with slots, and a dust filter bag is arranged inside the ventilation duct. The outer side of the dust filter bag is fixedly connected with a connecting plate, which is circumferentially and equidistantly provided with slots. The present invention enables the extraction and discharge of air from the mine through the rotation of the fan blades. By utilizing the rotation of the rotating frame, the pressing block pushes the guide rod upward to collide with the dust filter bag, causing the impurities and dust filtered by the dust filter bag to slide down its expanded inclined surface to the inner bottom for collection. This prevents the impurities and dust filtered by the dust filter bag from adhering to its surface in the absence of external force, thereby affecting the air extraction.

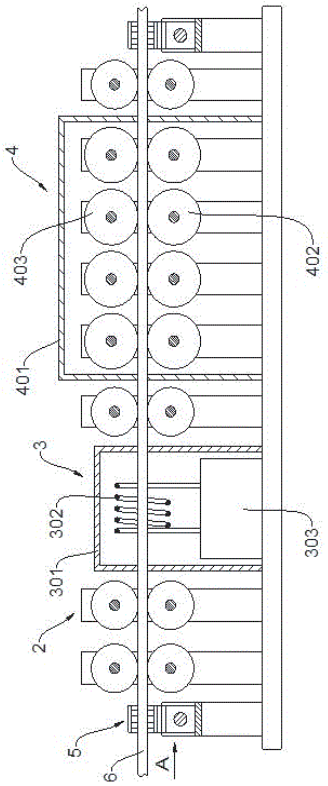


21: 2025/00589. 22: 2025/01/17. 43: 2025/07/23
51: B21D
71: Sichuan Pangang Jiade Precision Technology Co., Ltd.
72: Jun Liu, Yong Xiao, Jie Yang, Yong Yang, Jia Ma

**54: A TITANIUM ALLOY STEEL PROCESSING TECHNOLOGY**

00: -

The invention relates to the technical field of titanium alloy processing, and provides a titanium alloy steel processing technology, including the following steps S1, hot rolling titanium alloy slab into titanium alloy belt; S2, titanium alloy belt through the transmission device to the heating device, titanium alloy belt heated to the target temperature into the cold bending unit; S3, cold bending machine will roll titanium alloy belt into steel. The titanium alloy slab slab of the invention is directly rolled into a titanium alloy belt after hot rolling, which saves the process of winding and unwinding, greatly saves time and improves production efficiency. The heating device is installed to heat the titanium alloy belt before entering the cold forming unit, which can eliminate the internal stress and prevent cracking; Heating can also change the microstructure of the titanium alloy belt, improve toughness, reduce deformation resistance, better withstand deformation, and reduce the possibility of cracking.

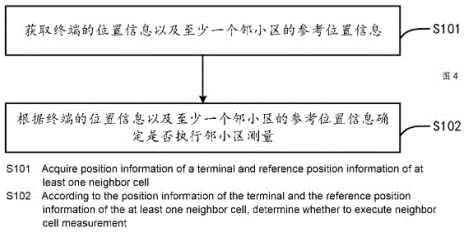



21: 2025/00597. 22: 2025/01/17. 43: 2025/07/23
51: H04B; H04W
71: SHENZHEN TRANSSION HOLDINGS CO., LTD.
72: HUANG, Junwei

**54: MEASUREMENT METHOD, TERMINAL, NETWORK DEVICE, AND STORAGE MEDIUM**

00: -

Provided in the present application are a measurement method, a terminal, a network device, and a storage medium. The method comprises: according to position information of a terminal and reference position information of at least one neighbor cell, determining whether to execute neighbor cell measurement. The implementation of the technical solution of the present application facilitates an improvement in the reliability of neighbor cell measurement initiation, thereby reducing the power consumption of a terminal.



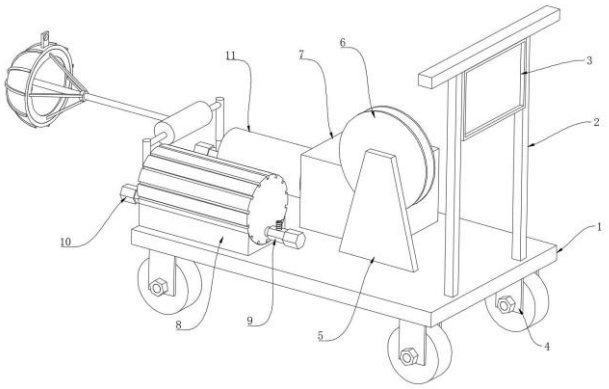

21: 2025/00601. 22: 2025/01/17. 43: 2025/07/23
51: C04B
71: Miluo Fuyuan New Materials Co., Ltd
72: Jiufu YANG, Botao GU
33: CN 31: 2023117187122 32: 2023-12-14
**54: METHOD FOR PREPARING HIGH THERMAL CONDUCTIVITY GRAPHITE FILM MATERIAL BY USING RECYCLED MATERIALS**
00: -
The present invention discloses a method for preparing a high thermal conductivity graphite film material by using recycled materials. According to the method, damaged graphite materials are first crushed to prepare a recycled graphite powder material, then asphalt is mixed with the recycled graphite powder material and fumed silica, and a solvent is used for modulating to obtain mixture paste for later use; then polyimide resin slurry is prepared, and graphene is dispersed therein; the polyimide resin slurry and the mixture paste are laminated to obtain a composite film, and continuous reciprocating roll-pressing operations are used, such that a thickness of the composite film is reduced, and then high-temperature curing treatment is performed on polyimide resin in the composite film, making the polyimide resin undergo a cross-linking reaction; then carbonization and graphitization treatment is performed in sequence on the composite film subjected to polyimide resin curing, to obtain a finished heat dissipation graphite film material. By the method of the present invention, low-cost raw materials can be used to prepare a carbon-based film heat dissipation material with better physical properties and structural stability, and excellent thermal conductivity.

21: 2025/00623. 22: 2025/01/20. 43: 2025/07/23
51: B09C
71: Anhui Water Conservancy Technical College
72: Cheng Yin, Shenglong Kuai, Yuan Gao, Dandan Liu, Jingmeng Sheng, Xianglin Zhang
**54: METHOD FOR REMEDIATING SOIL CONTAMINATED WITH POLYCHLORINATED BIPHENYLS**
00: -
A method for remediating soil contaminated with polychlorinated biphenyls, comprising the following steps: step 1: soil pretreatment; step 2: prepare the microbial remediation solution and apply it to the pretreated soil; step 3: select plants tolerant to polychlorinated biphenyls and plant them in the soil; step 4: manage the planted plants by implementing routine management measures. The method for remediating soil contaminated with polychlorinated biphenyls is easy to operate and use and effective for degradation application.

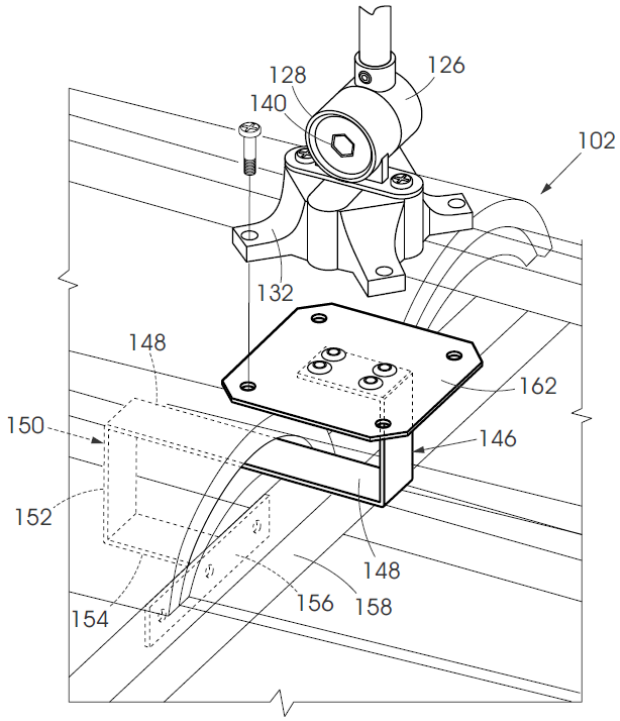
21: 2025/00624. 22: 2025/01/20. 43: 2025/07/23
51: C12C
71: Jilin Agricultural University
72: SHI, Junhua, ZHENG, Hongyan, GAO, Yawen, LIU, Chunlei
**54: BREWING PROCESS FOR GAMMA-AMINOBUTYRIC ACID-RICH BEER**
00: -
The present invention discloses a brewing process for gamma-aminobutyric acid-rich beer. The present invention provides a brewing process for gamma-aminobutyric acid-rich beer, which is simple in operation, low in cost, and produces a beer, which has a good appearance and color, a delicate taste, no off-flavor, rich in foam, and has a fresh beer aroma, and in particular, the content of GABA in the beer reaches 83.5mg/L, which greatly enhances the nutritional value of the beer.

21: 2025/00625. 22: 2025/01/20. 43: 2025/08/04
51: B08B
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: GU Deming, MAO Yanli, WANG Quanjun, PAN Hongwei, SU Zhe, LIU Wen, KANG Haiyan, YIN Shiqiang
**54: MULTIFUNCTIONAL COMBINED PIPELINE CLEANING TOOL**
00: -
The invention relates to the technical field of water supply and drainage pipeline cleaning, and discloses a multifunctional combined pipeline cleaning tool, which comprises a mobile vehicle body, wherein the top of the mobile vehicle body is provided with a

high-pressure water pump and a high-pressure air pump, and both sides of the high-pressure water pump are respectively provided with a water inlet valve and a water outlet valve. The multifunctional combined pipeline cleaning tool uses relatively little water at the same time, and has high cleaning efficiency, and can also avoid damage to the surface of a cleaned object. The advantages of mechanical cleaning of the balloon are that it can fully contact with the surface of an object with a complex shape, is suitable for cleaning pipelines with various diameters, and has a wide cleaning range. Moreover, the balloon material is soft, does not scratch the inner wall of the object, and can better protect the cleaned object. The advantages of ultraviolet disinfection are that it has high sterilization efficiency, can destroy the structure of microorganisms, and quickly reduce a variety of pathogens. The operation is simple, and it can be used after being opened and placed in a disinfection space and set for a certain time; wide disinfection range, which can disinfect the surface of the pipeline and cover a certain space.

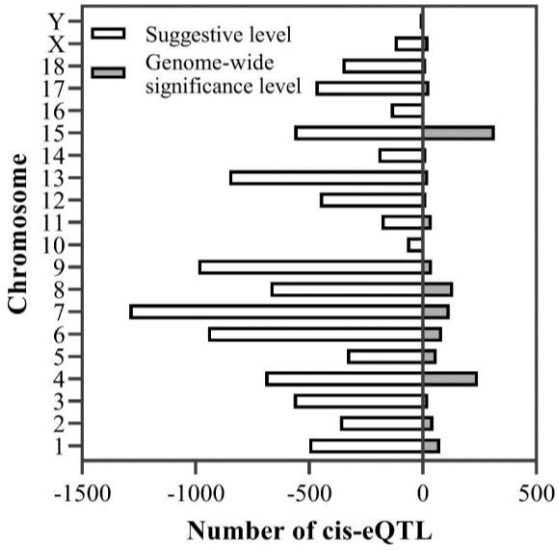



21: 2025/00626. 22: 2025/01/20. 43: 2025/07/23
51: A01M
71: BAD BIRDY (PTY) LTD
72: VAN BILJOEN, Jeffrey, VAN BILJOEN, Kyle Liam
33: ZA 31: 2023/09786 32: 2023-10-20
**54: A SCARECROW**
00: -
The invention relates to a scarecrow comprising a rotatable support carrying a bird repellent reflector assembly which is preferably wind-driven. A mounting bracket is configured for engagement between tiles on a roof. The rotatable support is connected to the mounting bracket through a releasably securable hingeable connection for angular variation and fixing of the rotatable support relative to roof structure.




21: 2025/00628. 22: 2025/01/20. 43: 2025/08/04
51: C12N
71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences
72: ZHAO Xueyan, WANG Jiying, LI Jingxuan, WANG Yanping, GUO Jianfeng
**54: MED17 GENE RELATED TO INTRAMUSCULAR FAT CONTENT IN PIGS AND ITS APPLICATIONS**
00: -
The invention discloses a MED17 gene related to the intramuscular fat content in pigs and its applications, which belongs to the field of biotechnology. The invention provides the following applications of MED17 gene: (1) application in detecting the intramuscular fat content of pigs; (2) application in the preparation of products for the detection of intramuscular fat content in pigs; (3) application in breeding pig breeds with different intramuscular fat content. The nucleotide sequence of the MED17 gene is shown as SEQ ID NO.1. Experiments have proved that MED17 is a key gene affecting the intramuscular fat content in pigs, and it may reduce the intramuscular fat content by

reducing the adipogenic differentiation of preadipocytes. The invention lays a solid theoretical foundation for the study of the mechanism of intramuscular fat deposition in pigs, and is of great significance for breeding pig breeds with different intramuscular fat contents.




21: 2025/00629. 22: 2025/01/20. 43: 2025/07/23
51: A61K
71: Shuiquan Cheng
72: Shuiquan Cheng

**54: TRADITIONAL CHINESE MEDICINE COMPOSITION AND PREPARATION METHOD THEREOF**

00: -

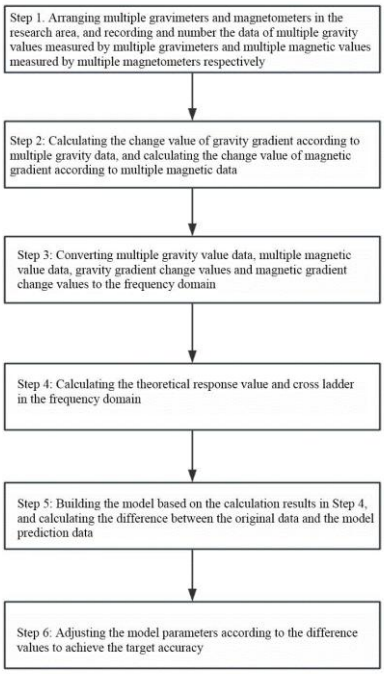
The invention discloses a traditional Chinese medicine composition and a preparation method thereof, wherein the traditional Chinese medicine composition includes the following raw materials in parts by weight: 6-9 parts of Ligustrum lucidum, 7-9 parts of Semen cuscutae, 3-7 parts of Panax notoginseng, 4-6 parts of Atractylodes macrocephala, and 8-12 parts of red dates. The preparation method of the tradition Chinese medicine composition includes the following steps: step 1): weighing each raw material by weight, and mixing the weighed raw materials evenly to obtain a Chinese medicine mixture; step 2): adding the Chinese medicine mixture to 400-600 ml of water and soaking for 30 minutes to 1 hour; then pouring the soaked herbs and the soaking liquid into a decoction container, heating over a low heat and decocting until boiling, keeping boiling for 3-5 minutes and then stopping the heat; step 3): filtering the decocted medicinal liquid to remove the medicinal residue to obtain a Chinese medicinal decoction; step 4): dividing the obtained Chinese herbal medicine decoction into packages, sterilizing and packaging to obtain a finished product.

21: 2025/00630. 22: 2025/01/20. 43: 2025/07/23
51: G01V
71: Henan University of Urban Construction
72: Sheng Liu, Yiju Tang, Fangchao Lu, Bing Jia, Quan Lou, Haomin Tian, Yanhui Yang, Lulu Zhang

**54: A CROSS-GRADIENT JOINT INVERSION METHOD FOR GRAVITY AND MAGNETISM AND THEIR GRADIENT TENSOR DATA IN FREQUENCY DOMAIN**

00: -

The invention relates to the technical field of geophysical exploration, and discloses a cross gradient joint inversion method of gravity and magnetism and their gradient tensor data in frequency domain, which comprises arranging multiple grays and magnetometers in the study area, and recording and numbered the multiple gravity value data measured by multiple grays and the multiple magnetic value data measured by multiple magnetometers respectively. The change value of gravity gradient ZTbh is calculated according to multiple gravity value data, the change value of magnetic gradient CTbh is calculated according to multiple magnetic value data , the change value of gravity value data, the change value of gravity gradient and the change value of magnetic gradient are converted to the frequency domain, and the theoretical response value and cross ladder in the frequency domain are calculated. Based on the calculation results, a model is constructed. The difference between the original data and the predicted data is calculated, and the model parameters are adjusted according to the difference to achieve the target accuracy and improve the degree of restoration to the real geological situation.

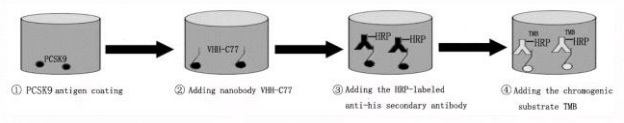



21: 2025/00631. 22: 2025/01/20. 43: 2025/07/23
51: A61K; C07K; C12N; C12R; G01N; A61P
71: Henan University of Urban Construction
72: Li, Xinyang, Zhang, Shuaiguo, Hong, Jun, Wang, Qingqing, Wang, Jiaqian, Zhu, Mingxia, Zhao, Shaoyue

**54: A NANOBODY SPECIFICALLY BINDING TO THE PROPROTEIN CONVERTASE SUBTILISINKEXIN TYPE 9 AND ITS APPLICATIONS**

00: -

The nanobody of the present invention is derived from the variable region of heavy-chain antibodies of camelids. It consists of framework regions (FR regions) and complementarity-determining regions (CDR regions). Among them, the three CDR regions are as shown in SEQ ID NO: 1 to SEQ ID NO: 3, and the four FR regions are as shown in SEQ ID NO: 6 to SEQ ID NO: 9. The nanobody of the present invention demonstrates strong interaction with the recombinant PCSK9 protein. It can be used in the development of antibody-based drugs targeting the PCSK9 protein and for the immunological detection of PCSK9 levels in various biological samples.

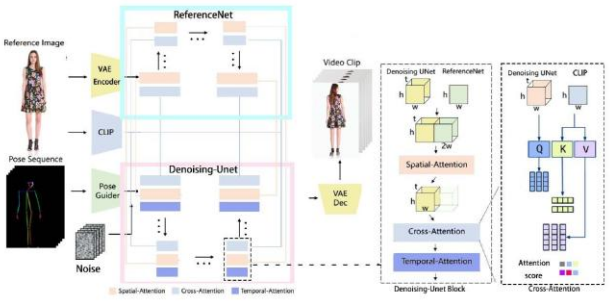



21: 2025/00632. 22: 2025/01/20. 43: 2025/07/23
51: G06T; G06N
71: ZHEJIANG NORMAL UNIVERSITY
72: Anxin YAO, Huiying XU, Yue HU, Jiqing CHEN, Shengkang SU, Weijian JIANG, Congwen CHEN, Shiheng MA, Rui ZHAO, He ZHU, He ZHU, Zhendong CHEN, Suqin SU, Qili REN, Xinzhong ZHU
33: CN 31: 2024109677675 32: 2024-07-18

**54: A DYNAMIC VIDEO GENERATION METHOD AND SYSTEM BASED ON DIFFUSION MODEL**

00: -

The present invention discloses a dynamic video generation method and system based on a diffusion model, and belongs to the technical field of image processing. The dynamic video generation method based on a diffusion model includes: acquiring a plurality of character pictures and video clips to construct a data set; constructing an image dynamic generation model based on a diffusion model; extracting pose sequence images of characters in the data set, rendering the pose sequences to obtain a pose skeleton sequence image, and inputting the data set and the pose skeleton sequence image into an image dynamic generation model for training to obtain a trained image dynamic generation model; and acquiring a to-be-generated static image and inputting the to-be-generated static image into the trained image dynamic generation model to obtain a dynamic video corresponding to the static image. The present invention ensures the stability of temporal dimension and the consistency of video texture in the dynamic video generation process through an improved diffusion model.



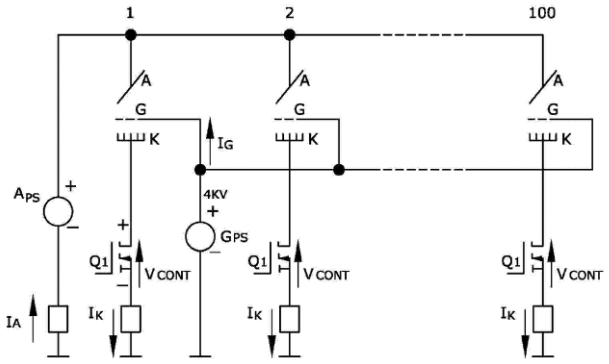

21: 2025/00637. 22: 2025/01/20. 43: 2025/07/24
51: H05G
71: SOCIEDAD ESPAÑOLA DE ELECTROMEDICINA Y CALIDAD, S.A.

72: DíAZ CARMENA, Ángel, MOLINA CASLA, José Luis, MIRÓN QUIRÓS, Agustín

**54: X-RAY SCANNING CONTROL SYSTEM**

00: -

X-ray scanning system comprising a plurality of emitters and at least one receiver arranged opposite each other where only one emitter can be emitting at a certain time and so on until the exposure is performed, wherein each X-ray emitter comprises an anode (A) connected to a single power source (Aps) as well as a grid (G) and a cathode (K), where connected to each cathode there is at least one controller (CLR1) that controls the anode current (IA) and where each controller (CLR1) comprises a comparator (COMP) that has as reference the current demand of the anode (DIA), and the feedback of the comparator (COMP) is the actual anode current (IA). This allows avoiding the calibration of the cathode current demand value, maintaining the precision state in all X-ray emitters and shortening the activation and deactivation transition times.




21: 2025/00638. 22: 2025/01/20. 43: 2025/07/24

51: H05G

71: SOCIEDAD ESPAÑOLA DE ELECTROMEDICINA Y CALIDAD, S.A.

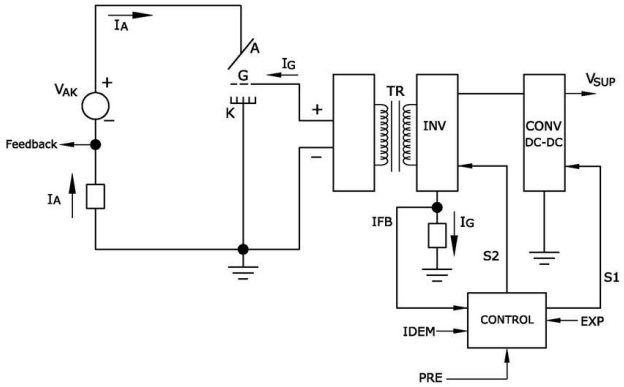
72: DÍAZ CARMENA, Ángel, MOLINA CASLA, José Luis, MIRÓN QUIRÓS, Agustín

33: ES 31: PCT/ES2022/070577 32: 2022-09-12

**54: CIRCUIT FOR CONTROLLING X-RAY EXPOSURE WITH MONOPOLAR OR BIPOLAR POWER SUPPLY BY MEANS OF A GRID CURRENT**

00: -

A circuit that aims to control the exposure of X-rays by means of an intermediate or feedback current which is directly proportional to the grid current (IG), which in turn controls the current of the anode of the tube and which is ultimately responsible for the emission of the X-ray photons, comprising an anode (A), a cathode (K) connected to ground, as well as a grid (G) connected to a grid current controller circuit (IG) comprising a DC-DC converter (CONV) or "buck converter" to which a power supply voltage (Vsup) is connected, the output of which is connected to an inverter (INV) that is in turn connected to a transformer (TR), where the output of this transformer (TR) is connected to a rectifier (RECT) whose outputs are connected to the grid (G) and to ground. In addition, in said controller circuit there is a control circuit (CONT).




21: 2025/00654. 22: 2025/01/20. 43: 2025/07/24

51: B01D; C01G

71: MANGANESE X ENERGY CORP.

72: WARKENTIN, Douglas D., NACU, Anca M.

33: US 31: 63/407,251 32: 2022-09-16

**54: PROCESS FOR THE PURIFICATION OF MANGANESE SULFATE SOLUTIONS AND SUBSEQUENT CRYSTALLIZATION OF HIGH PURITY MANGANESE SULFATE MONOHYDRATE**

00: -

A process for purifying a manganese sulfate solution and precipitating high purity manganese sulfate monohydrate crystals. The concentration of manganese sulfate is increased and calcium and magnesium are removed by precipitating calcium and magnesium fluoride, which are separated from the concentrated solution to produce a clarified solution. In a first crystallization step, the clarified solution is combined with a recycled manganese sulfate solution and manganese sulfate seed crystals and the mixture is heated to produce a crystal suspension. Manganese sulfate crystals are separated and the remaining solution is used to

prepare solid manganese fluoride, which is separated and returned to the process to remove calcium and magnesium. The manganese sulfate crystals are redissolved in water. Undissolved solids are removed to produce a second clarified manganese sulfate solution. In a second crystallization step the second clarified solution is combined with manganese sulfate monohydrate seed crystals, which are heated and mixed to produce a manganese sulfate monohydrate crystal product in a saturated manganese sulfate solution, from which the final high purity manganese sulfate monohydrate crystals are separated.

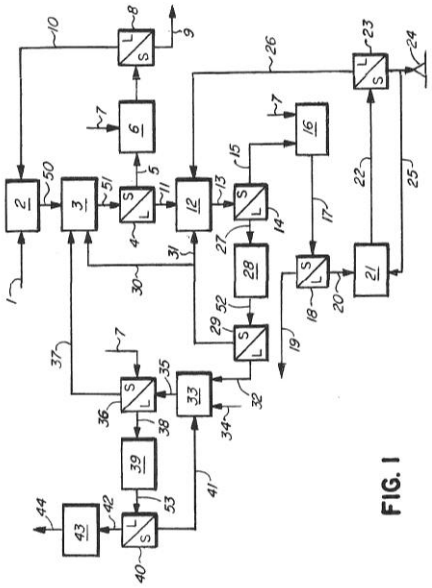


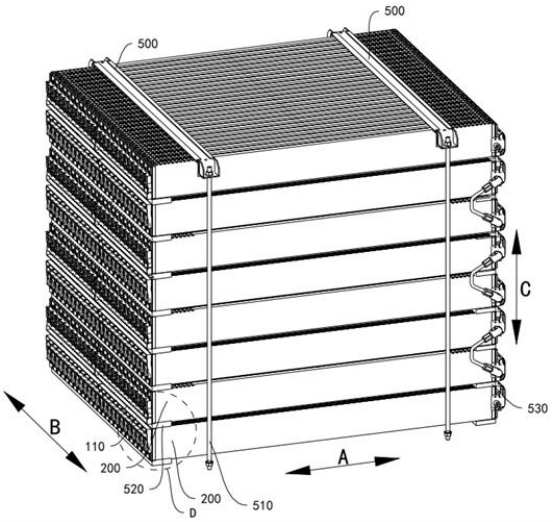
FIG. 1

21: 2025/00655. 22: 2025/01/20. 43: 2025/07/24
51: H01M
71: BYD COMPANY LIMITED
72: SUI, Jiahai, YIN, Xueqin, CAO, Hu, LIU, Weijie, YIN, Xiaoqiang
33: CN 31: 202221841014.2 32: 2022-07-15
33: CN 31: 202210833929.7 32: 2022-07-15

**54: ENERGY STORAGE BATTERY CABINET AND ENERGY STORAGE SYSTEM HAVING SAME**

00: -

An energy storage system is provided with an energy storage battery cabinet. The energy storage battery cabinet includes a cabinet body and at least two battery cell layer groups. The cabinet body has a first direction, a second direction and a third direction which are orthogonal to each other. The at least two battery cell layers groups are provided in the cabinet body and arranged in the third direction. Each of the battery cell layer groups includes at least one battery cell in each of the first direction and the second direction. Two adjacent battery cell layer groups in the third direction abut against each other so as to limit each other in the third direction.




21: 2025/00670. 22: 2025/01/21. 43: 2025/07/24
51: E21F
71: Gansu Lingtai Shaozhai Coal Industry Co., Ltd.
72: ZHU, Kai, CHEN, Fangming, GUO, Zhenzhong, HUANG, Bo, LI, Jinyuan, LI, Fucheng, ZHAN, Xueliang, CUI, Yunfeng, HAN, Qiang, WANG, Haidong, LIU, Qingquan, SUN, Shaolei
33: CN 31: 202411280493.9 32: 2024-09-12

**54: PROCESS FOR EXPLORING AND DISCHARGING GOB WATER BASED ON LONG-DISTANCE DIRECTIONAL ARC-SHAPED MULTI-ANGLE CROSSING DRILLING**

00: -

The present invention discloses a process for exploring and discharging gob water based on long-distance directional arc-shaped multi-angle crossing drilling, and relates to the technical field of mine water exploration and discharge. In order to solve the problems in the prior art, the present invention provides the following solutions: through the detailed geological exploration and hydrologic test, the water area and distribution of aquifers in the gob are accurately identified; directed drilling operations are performed to avoid the waste of resources; the directional arc-shaped multi-angle drilling is performed and the formed hole quality is checked to ensure the borehole quality, and reduce the number of unnecessary boreholes and the drilling cost; the water in the water areas with different depths and

angles is efficiently discharged to improve the discharge efficiency; the water level variation and discharge flow rate are monitored in real time to ensure the discharge effect.

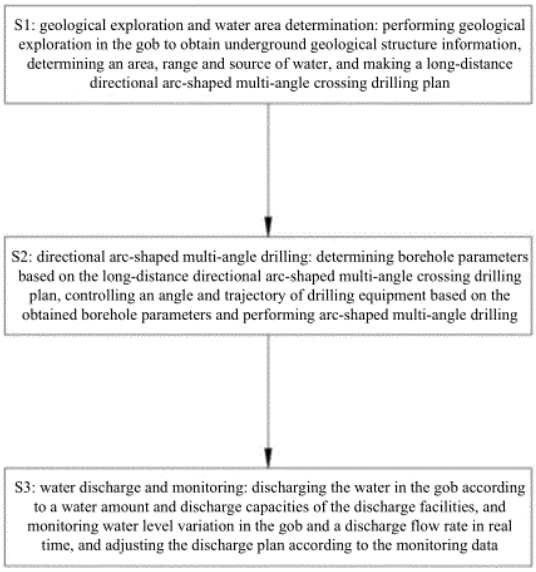


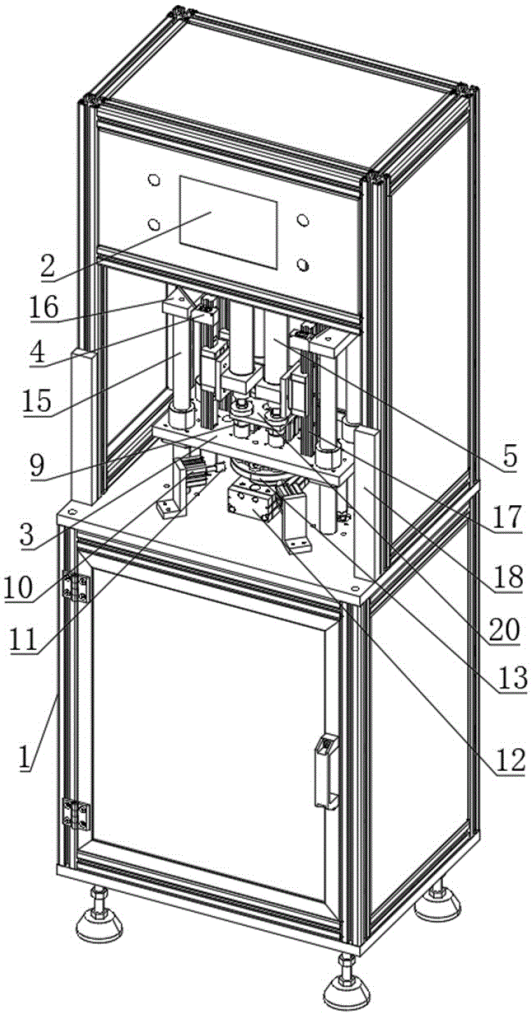

FIG. 1

21: 2025/00671. 22: 2025/01/21. 43: 2025/07/24
51: B23F
71: JINHUA UNIVERSITY OF VOCATIONAL TECHNOLOGY
72: ZHUANG XiaoLong

**54: A GEAR THREAD REWINDING DEVICE WITH THREAD DEPTH DETECTION FUNCTION**

00: -

The present invention discloses A gear thread rewinding device with thread depth detection function, which includes a frame, a touch display screen, a gear placement rotation station, a lifting device is provided on the frame, and a lifting platform is provided on the lifting device that is located directly above the gear rotation placement station. On the top surface of the lifting platform, there are a plurality of uniformly distributed filament return drive devices, and each side of the filament return drive device is equipped with a laser range finder for detecting the depth of the filament return, and the laser range finder is electrically connected to the touch screen. The utility model can not only improve work efficiency, but also has the advantages of good filament return effect, easy to use, easy to install, high structural stability, long service life and high safety in use.




21: 2025/00672. 22: 2025/01/21. 43: 2025/07/24
51: A01H
71: Shandong University
72: ZHENG, Fengying, QU, Chunfeng

**54: METHOD FOR OBTAINING STERILE EXPLANTS FROM STEM TIP FOR TISSUE CULTURE OF EELGRASS**

00: -

The present invention relates to a method for obtaining sterile explants from the stem tip for tissue culture of eelgrass, including the following steps: collecting eelgrass when the seawater temperature is about 10 degrees Celsius in spring, plucking healthy ramets from a mother plant and putting in seawater in an illumination incubator for temporary culture, after 3 d, replacing the natural seawater with sterile seawater added with 50 mg/L of streptomycin sulfate for continuous culture, and replacing the seawater every 3 d; after 15 d, peeling off stem tip wrapped by young leaves in a clean bench, putting

one node and two internodes close to the stem tip in a sterile suction filtration flask and flushing three to five times by using sterile natural seawater, putting the node and the internodes in a 20 percent hydrogen peroxide solution for disinfection for 15 min.

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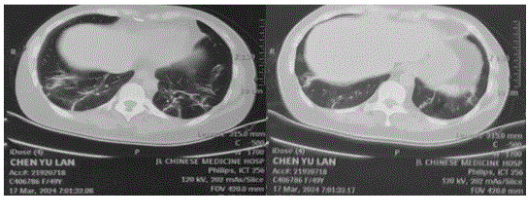
21: 2025/00673. 22: 2025/01/21. 43: 2025/07/24
51: A61K; A61P
71: THE AFFILIATED HOSPITAL TO CHANGCHUN UNIVERSITY OF CHINESE MEDICINE, Jilin University
72: ZHU, Tonggang, YU, Zhe, WU, Yuheng, LUAN, Hongyan, SHEN, Qiming, SUN, Yu, GAO, Haicheng, HU, Xiyue
**54: TRADITIONAL CHINESE MEDICINE COMPOUND PREPARATION FOR TREATING INTERSTITIAL LUNG DISEASES AND PREPARATION METHOD THEREOF**
00: -
The present invention relates to a traditional Chinese medicine compound preparation for treating interstitial lung diseases and a preparation method thereof. The traditional Chinese medicine compound preparation includes the following raw materials in parts by weight: 13-17 parts of Rhizoma zingiberis, 8-12 parts of Radix ginseng, 18-22 parts of solid-fried Rhizoma atractylodis macrocephalae, 8-12 parts of liquid-fried Radix et rhizoma glycyrrhizae, 28-32 parts of Poria, 13-17 parts of Radix paeoniae rubra, 48-52 parts of Radix astragali, 3-7 parts of Cortex cinnamomi, 8-12 parts of Semen persicae, 28-32 parts of Herba siegesbeckiae, 13-17 parts of Radix et rhizoma clematidis, 5-9 parts of honeycombs and 8-12 parts of Myrrha. By using the traditional Chinese medicine compound preparation, symptoms such as cough, oppression in chest and dyspnea can be effectively alleviated in patients with ILD; and overall coordination improves physical conditions of patients and enhances their immunity.

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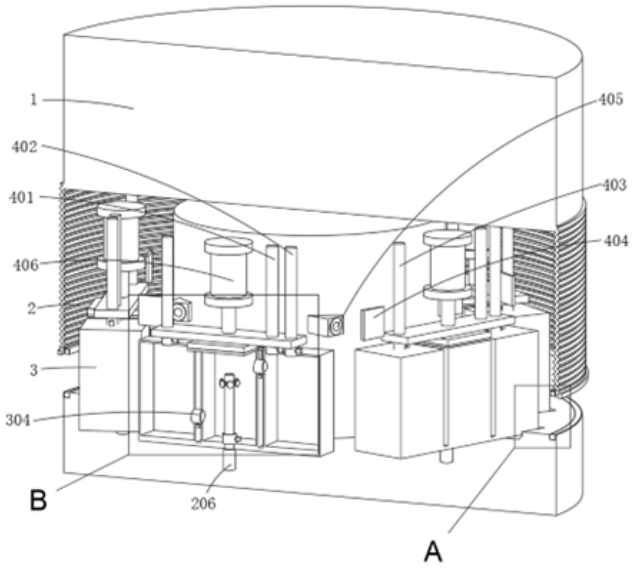
21: 2025/00674. 22: 2025/01/21. 43: 2025/07/24
51: C12M; C12Q
71: BGRIMM TECHNOLOGY GROUP, YUNNAN COPPER CHIFENG NON-FERROUS METALS CO., LTD.
72: LIN, Xingjie, PANG, Zhikun, MIAO, Yu, ZHANG, Chi, LI, Fangze, ZHANG, Ge, LI, Rui, XIN, Xin, SUN, Qiwei, MA, Haitao, ZHANG, Zhen
**54: DEVICE AND METHOD FOR SCREENING MICROORGANISMS CAPABLE OF SYNERGISTICALLY FIXING CARBON AND REDUCING POLLUTION**
00: -
The present application belongs to the technical field of microorganism screening devices, and particularly provides a device for screening microorganisms capable of synergistically fixing carbon and reducing pollution, including a screening device body and a light shield, where the screening device body is provided thereinside with a light source board, air conditioning constant-temperature component, automatic carbon dioxide effervescent tablet feeding component, automatic heavy metal liquid feeding component, automatic fertilizer liquid feeding component, automatic pure water feeding component, air-pump air delivery component and automatic bromothymol blue solution feeding component. The bromothymol blue solution reacts with the gas in the soil microorganism chamber to change color, and the computer corrects the colors of the pictures through the color calibration card, to screen out several microorganism combinations with good solid-state efficiency for heavy metal detection, leaches the microbial mixed soil, and then performs heavy metal detection on the leached water.

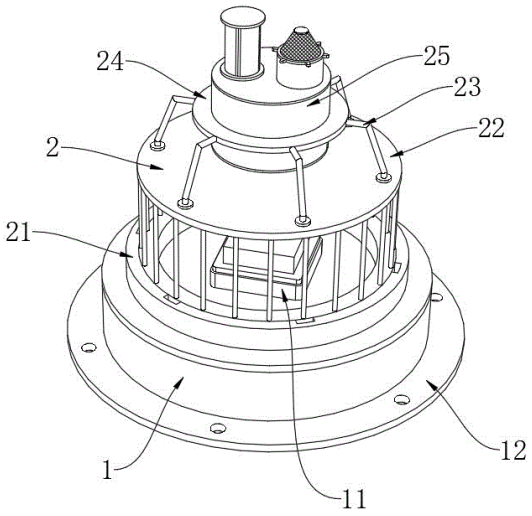



21: 2025/00681. 22: 2025/01/21. 43: 2025/07/24
51: G08B
71: Henan University of Urban Construction
72: Luohua Zhang, Zhanfeng Huang, Yanfei Dong, Zhenzhen Cheng, Changbing Zheng, Ning Hou, Xingang Wang, Yi Wei, Yixuan Zhang, Mengdi Liu, Bingyan Guo

**54: A NETWORK-CONTROLLED REMOTE ALARM DEVICE**

00: -

The present invention relates to the field of fire detection technology and discloses a network-controlled remote alarm device, comprising a remote alarm device body. A fire detection end is arranged at the center of the top of the remote alarm device body. A mounting ring seat is fixedly installed on the outer wall of the remote alarm device body, and an intermittent cleaning mechanism is provided at the top of the remote alarm device body. The intermittent cleaning mechanism includes a receiving plate and an air storage cylinder, with an electric telescopic rod fixedly installed at the top of the air storage cylinder. Through the extension operation of the electric telescopic rod, the inner sliding plate is driven to move downward, pushing the gas inside the air storage cylinder through the second one-way valve to the bottom of the receiving plate. The rapid flow of gas can remove impurities attached to the surface of the fire detection end and also clean impurities in the gaps of the upright rod, thereby ensuring the accuracy and timeliness of fire detection by the fire detection end.

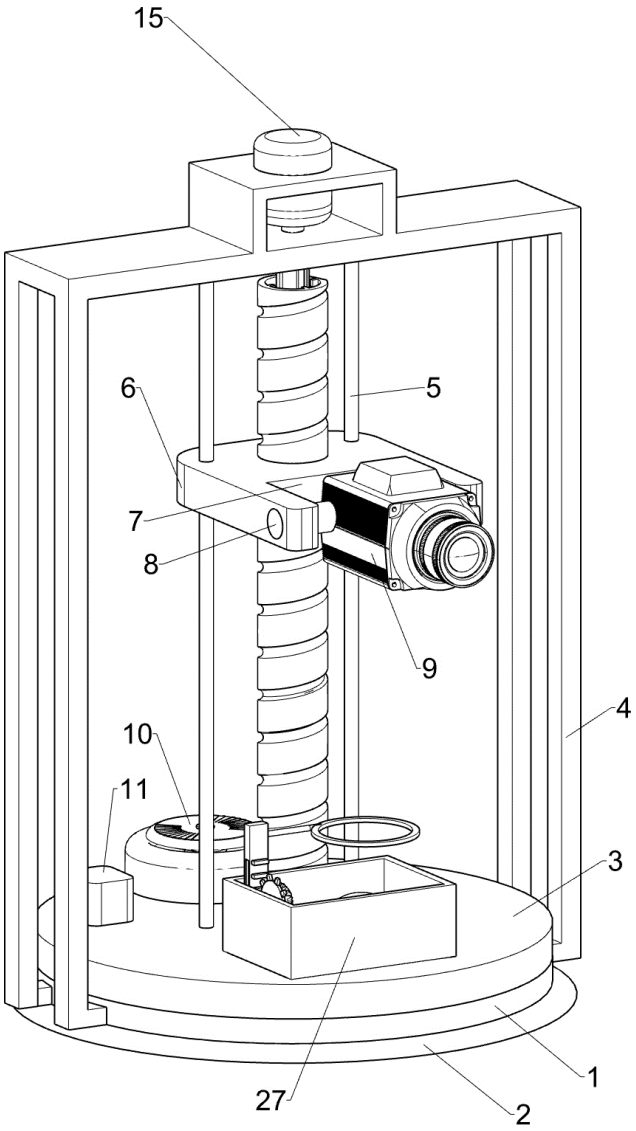



21: 2025/00682. 22: 2025/01/21. 43: 2025/07/24
51: B60R
71: Henan University of Urban Construction
72: Zhanfeng Huang, Luohua Zhang, Sheng Liu, Fangchao Lu, Yiju Tang, Haomin Tian, Quan Lou, Bing Jia

**54: A DRIVER FATIGUE MONITORING DEVICE FOR VEHICLES**

00: -

The present invention relates to the technical field of fatigue driving, specifically to a driver fatigue driving monitoring device for vehicles. The device includes a base plate, with a suction cup fixedly connected to the bottom of the base plate. A rotating disc is rotatably connected to the top of the base plate, and a mounting bracket is fixedly connected to the outer side of the base plate. Guide rods, symmetrically distributed, are fixedly connected to the top of the rotating disc. This invention, through the transmission component, allows for circumferential movement of the rotating disc and vertical movement of the lifting frame. This facilitates the adjustment of the camera detector's lens orientation toward the head position of the person operating the vehicle. The camera detector begins to detect the operator's driving condition by monitoring their eyes and facial features to identify their state while driving. When the camera detector identifies that the operator is drowsy or distracted, it transmits the information to a control module. The control module then sends the information to an alert device, which emits an alarm to notify the operator.

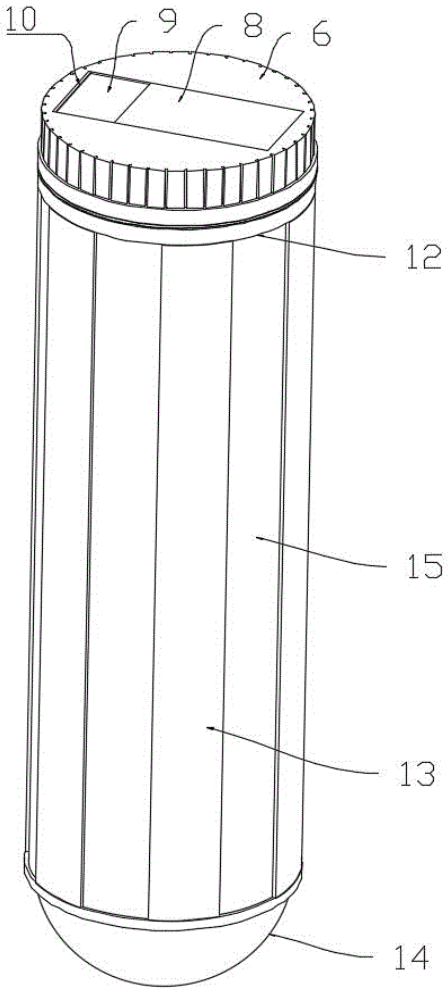



21: 2025/00683. 22: 2025/01/21. 43: 2025/07/24
51: A01N
71: Guangming Sun
72: Guangming Sun, Dunzhu Luosang, Yangji Cidan, Hui Jiang

**54: A YAK SPERM IN VITRO PRESERVATION DEVICE AND METHOD**

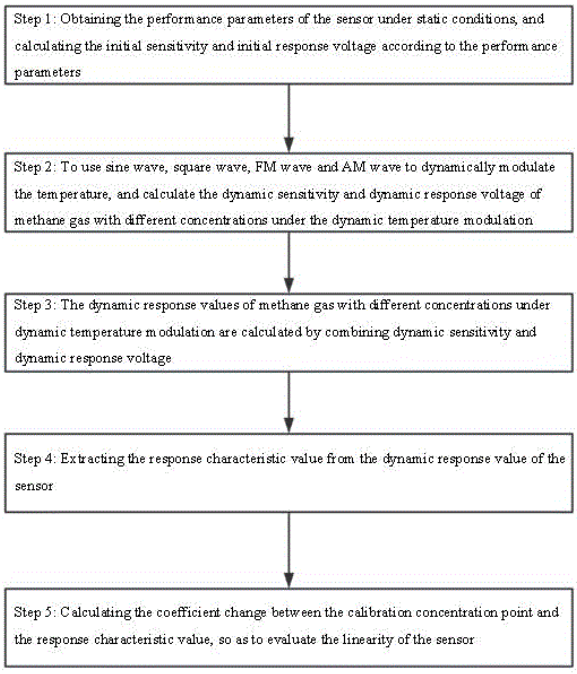
00: -

The present invention relates to the technical field of sampling tubes, specifically to a device and method for the in vitro preservation of yak sperm. It includes a sampling tube for containing yak sperm, with a connecting tube fixedly inserted at the top end of the sampling tube. A sealing cap is threaded onto the connecting tube above it. A threaded sleeve is fixedly fitted onto the top end of the sampling tube, and a threaded ring is screwed onto the bottom end of the threaded sleeve. A traction strip is fixed to the bottom surface of the threaded ring, and the bottom end of the traction strip is fixed to the top surface of a support plate, which supports the bottom of the sampling tube. A liquid storage bag is fitted around the body of the sampling tube, containing water, and the outer surface of the storage bag is fixed to the surface of the traction strip. The beneficial effect is that through the combination of the threaded ring and the threaded sleeve, as well as the wrapping effect of the liquid storage bag, the device achieves low-temperature preservation of the sampling tube. The water contained inside the liquid storage bag freezes under refrigeration conditions, providing a stable low-temperature environment for the sperm, effectively extending the preservation time of the sperm while maintaining its viability.



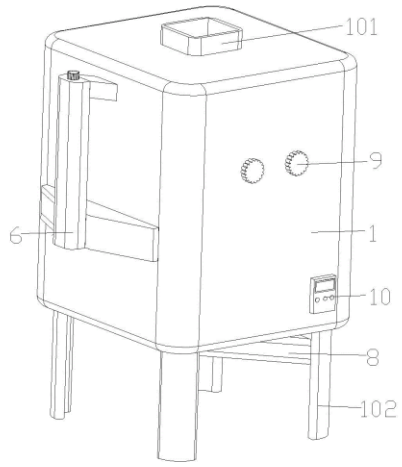
21: 2025/00684. 22: 2025/01/21. 43: 2025/07/24
51: A23K
71: Guangming Sun
72: Guangming Sun, Dunzhu Luosang, Yangji Cidan, Hui Jiang
**54: A FORAGE AND FEEDING METHOD FOR IMPROVING SEMEN QUALITY OF YAK**
00: -
The invention relates to the technical field of feed, in particular to a forage for improving the semen quality of yaks and a feeding method thereof. The forage for improving the semen quality of yak comprises the following raw materials by weight: 22-27 portions of barley, 15-20 portions of oat, 10-14 portions of soybean meal, 7-10 portions of kidney bean, 3-6 portions of coclade oil, 2-5 portions of wolfberry, 1-3 portions of schizospira, 5-8 portions of functional fillers, 0.8-1.2 portions of probiotics, 0.1-0.3 portion of mildew-proof agent and 0.2-0.5 portion of flavorings; The modified carrier is prepared by combining the gel microspheres prepared by pectin and sodium alginate with montmorillonite and polyethylpyrrolidone, and reacting with chitosaccharides, citric acid and selenium-rich yeast. The forage prepared by the invention to improve the quality of yak semen can significantly improve the vitality, density and normal sperm rate of yak semen and improve the sperm quality of yak, thereby enhancing the reproductive performance of yak and bringing considerable economic benefits to yak breeding industry through the combination of multiple nutrients in scientific ratio and functional filler.

21: 2025/00685. 22: 2025/01/21. 43: 2025/07/24
51: G01N
71: Henan University of Urban Construction
72: Zhenzhen Cheng, Wei He, Yanfei Dong, Guofeng He
**54: A METHOD FOR MODULATING THE LINEARITY OF A TIN DIOXIDE GAS SENSOR BASED ON DYNAMIC TEMPERATURE**
00: -
The invention relates to the technical field of a gas sensor, and discloses a method for modulating the linearity of a tin dioxide gas sensor based on dynamic temperature, including: Obtaining the performance parameters of the sensor under static conditions, and calculating the initial sensitivity and initial response voltage according to the performance parameters; The temperature is modulated by sine wave, square wave, FM wave and AM wave, and the dynamic sensitivity and dynamic response voltage of methane gas with different concentration are calculated. Combined with dynamic sensitivity and dynamic response voltage, the dynamic response values of methane gas with different concentrations under dynamic temperature modulation were calculated. The response characteristic value is extracted from the dynamic response value of the sensor. The coefficient change between the calibration concentration point and the response characteristic value is calculated to evaluate the linearity of the sensor. The performance of the sensor under different conditions can be evaluated in different ways and the linearity of the sensor can be improved




21: 2025/00687. 22: 2025/01/21. 43: 2025/07/24
51: A01G
71: Hainan Tropical Ocean University
72: Zhu Mingjun, Bai Yan
**54: GREEN FOOD CRUSHING DEVICE BASED ON FOOD SCIENCE AND ENGINEERING**
00: -
The present invention discloses a green food crushing device based on food science and engineering, which relates to the technical field of crushing devices. The device comprises: a crushing

box, wherein a crushing hopper is installed on the inner wall of the crushing box, and two crushing rollers are rotatably connected to the inner wall of the crushing hopper. A screening plate is installed on the inner wall of the crushing box, and one side of the screening plate is provided with a through hole on the inner wall of the crushing box. One side of the crushing box is provided with a secondary feeding unit, and the inner wall of the crushing box is fixedly connected with a discharge hopper. The bottom end of the crushing box is provided with a discharge unit. Through the above structure, it is possible to carry out crushing operations on food and perform secondary crushing on food that does not meet the crushing standards, ensuring the crushing effect of the device. At the same time, qualified crushed food is discharged, ensuring uniform discharge of food

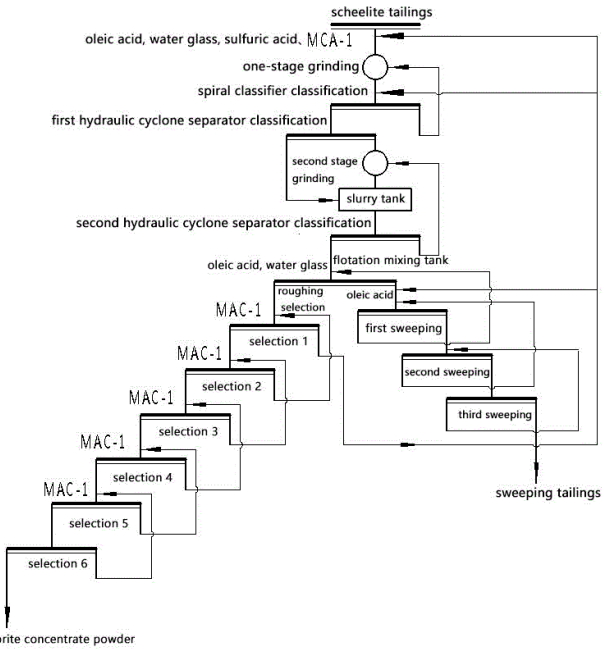



21: 2025/00688. 22: 2025/01/21. 43: 2025/07/24
51: B44C
71: Xianyang Shuangbai Technology Co., Ltd
72: Sun Chao, Sun Ming
33: CN 31: 2024118004621 32: 2024-12-09

**54: FLUORITE BENEFICIATION PROCESS FOR HIGH-CALCIUM SCHEELITE TAILING**

00: -

The present invention relates to the field of fluorite beneficiation technology, specifically to a fluorite beneficiation process for high-calcium scheelite tailing. The beneficiation process of the present invention comprises the following steps: mixing high-calcium scheelite tailings containing fluorite resources, water, and beneficiation agents, grinding them to obtain a slurry; The beneficiation agent includes oleic acid, water glass, and inhibitors; Roughing process: After mixing the slurry with the roughing process agent, roughing selection is carried out to obtain the roughing selection concentrate; Roughing process agents include oleic acid and water glass; Selection process: In the presence of selected reagents, the roughing concentrate is selected to obtain fluorite concentrate powder; Selection agents include inhibitors. The beneficiation process of the present invention solves the problem of difficulty in effectively separating fluorite and calcite during the extraction of fluorite from high-calcium scheelite tailings containing fluorite resources, resulting in low grade and recovery rate of fluorite.



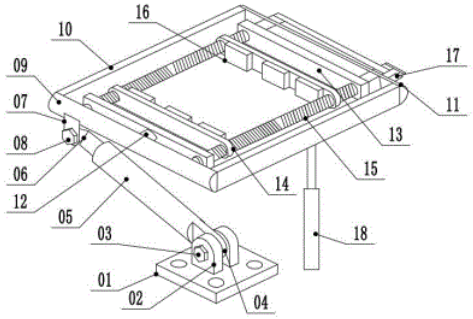

21: 2025/00705. 22: 2025/01/22. 43: 2025/07/24
51: B25H
71: Heilongjiang Institute of Construction Technology
72: ZHANG, Hongli, LI, Yan, LUAN, Kun, WANG, Rui, FAN, Liping, WANG, Huan, ZHANG, Qianzhong, MA, Dongxia

**54: COMPUTER EQUIPMENT MAINTENANCE APPARATUS**

00: -

The present invention discloses a computer equipment maintenance apparatus, including a hinge rod. A lower end of the hinge rod is hinged to an equipment support base, an upper end of the hinge rod is hinged to a front end support connecting rod, a rotation motor is fixed on the front end support connecting rod, a working frame side beam is fixed

to one of two ends of the front end support connecting rod, and a support hydraulic cylinder is connected to a lower end of the working frame side beam. Two bidirectional threaded rods are provided, two ends of the bidirectional threaded rods are rotatably connected to rotating brackets, and one rotating bracket is fixed to an output shaft of the rotation motor. Two tensioning brackets are provided, and each tensioning bracket is threadably connected to two ends of the two bidirectional threaded rods on the same side.

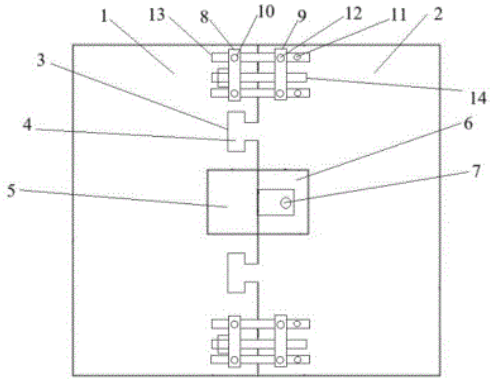



21: 2025/00706. 22: 2025/01/22. 43: 2025/07/24
51: E04G
71: Heilongjiang Institute of Construction Technology
72: LI, Yan, ZHANG, Hongli, LUAN, Kun, ZHANG, Tian, LIANG, Bin, LIU, Changheng, JING, Yanfeng, WU, Xiaowei

**54: CONNECTION LOCKING DEVICE FOR CONSTRUCTION FORMWORK**

00: -

The present invention discloses a connection locking device for construction formwork, including first formwork and second formwork, a locking and latching assembly, and link assemblies. Clamping grooves are formed on one side end of the first formwork. Fixture blocks are provided on one side end of the second formwork, and the fixture blocks can be embedded in the clamping grooves and can restrict the relative movement of the first formwork and the second formwork. The locking and latching assembly includes a locking part and a latching part that are fixedly provided on the first formwork and the second formwork, respectively. Each of the link assemblies includes a first connecting plate and a second connecting plate that are fixedly provided on the first formwork and the second formwork, respectively. The first connecting plate and the second connecting plate can also be connected to each other through a threaded rod.

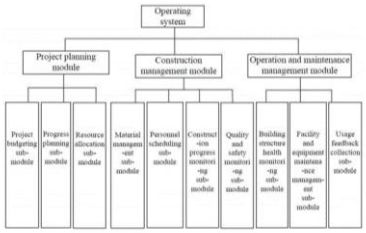



21: 2025/00707. 22: 2025/01/22. 43: 2025/07/24
51: G06Q
71: Jinggangshan University
72: LIU, Lijun, OUYANG, Luxia, YI, Yanjuan

**54: INTEGRATED OPERATING SYSTEM FOR CIVIL ENGINEERING MANAGEMENT**

00: -

The present invention discloses an integrated operating system for civil engineering management, including a project planning module, a construction management module, and an operation and maintenance management module. The project planning module is configured to automatically generate a preliminary budget scheme based on a preset engineering type and engineering scale parameters, combined with a market price database, and support manual adjustments; generate a construction progress plan, combined with empirical data of similar historical projects; allocate human and material resources based on the construction progress plan and the preliminary budget scheme, and display a resource allocation chart in real time. The construction management module includes a material management sub-module, a personnel scheduling sub-module, a construction progress monitoring sub-module, and a quality and safety monitoring sub-module. The operation and maintenance management module includes a building structure health monitoring sub-module, a facility and equipment maintenance management sub-module, and a usage feedback collection sub-module.

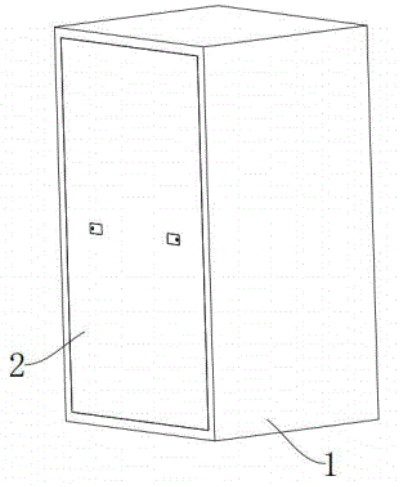



21: 2025/00708. 22: 2025/01/22. 43: 2025/07/24
51: G06F
71: Heilongjiang Institute of Construction Technology
72: ZHANG, Hongli, LUAN, Kun, LI, Yan, WANG, Rui, LI, Hongye, HUANG, Jinhua, GAO, Tingting, ZHANG, Hongxu

**54: EASILY ASSEMBLED AND DISASSEMBLED COMPUTER CASE**

00: -

The present invention discloses an easily assembled and disassembled computer case, relating to the technical field of computers, and including a case body, a cover plate, and at least one locking assembly composed of a worm and a worm gear mechanism. A limiting surface for blocking the cover plate is provided at a pick-and-place opening of the case body; at least one accommodating cavity as well as an upper opening and a lower opening, which are communicated with the accommodating cavity, are arranged in the cover plate, and the locking assembly is located in the accommodating cavity; the worm is connected to an upper telescopic pin and a lower telescopic pin which can be extended or retracted at the same time, and limiting slots are correspondingly arranged on the case body.

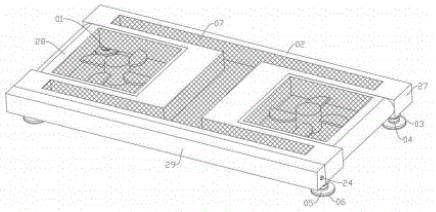



21: 2025/00709. 22: 2025/01/22. 43: 2025/07/24
51: G06F
71: Heilongjiang Institute of Construction Technology
72: LI, Yan, LUAN, Kun, ZHANG, Hongli, DONG, Juan, WANG, Xin, WANG, Zipeng, LIU, Changheng, JIA, Bingshu

**54: ANGLE-ADJUSTABLE HEAT DISSIPATION FAN BRACKET**

00: -

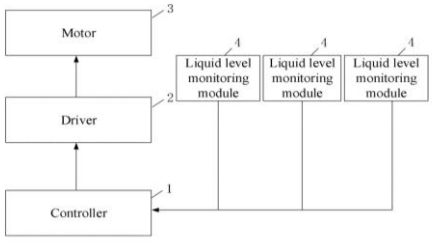
The present invention discloses an angle-adjustable heat dissipation fan bracket, including fan boxes, a placing plate, support legs, position control shaft rods, a placing frame, an angle adjustment rod, and a temperature sensor. The bottom of the placing plate is threadably connected to the support legs via support sleeves. A support plate is provided at a lower end of each support leg, and an anti-skid rubber pad is connected to the bottom of the support plate. A heat dissipation net is provided on the placing plate, and the fan boxes are connected to two sides of the placing plate, respectively. The position control shaft rods connect the fan boxes to the placing plate. An end of the placing frame is hinged to the placing plate, and a baffle plate is provided on an upper surface of the hinged end of the placing frame.



21: 2025/00710. 22: 2025/01/22. 43: 2025/07/24
51: G05B
71: Heilongjiang Institute of Construction Technology
72: LUAN, Kun, ZHANG, Hongli, LI, Yan, ZOU, Jianxin, ZHANG, Xiaofeng, SUN, Huisong

**54: MULTI-LEVEL MONITORING ROTARY DECANTER CONTROL SYSTEM AND METHOD, AND DEVICE**

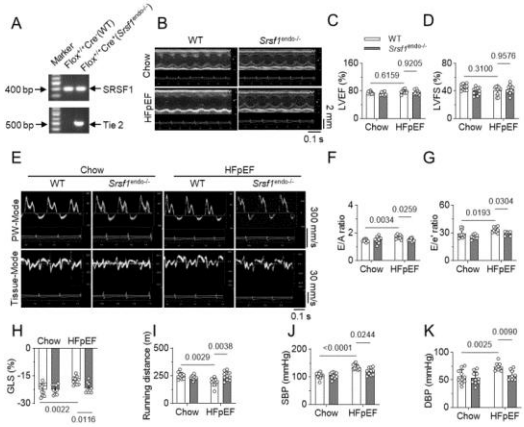
00: -
Disclosed are a multi-level monitoring rotary decanter control system and method, and a device. The system includes: a plurality of liquid level monitoring modules, a controller, a driver, and a motor, wherein the plurality of liquid level monitoring modules are arranged along an upper edge of an inlet weir of a rotary decanter at an equal interval and are connected to the controller; the controller is connected to the driver and is configured to calculate a height difference mean value, send a push-down control signal to the driver when the height difference mean value is less than a first preset distance, and send a pull-up control signal to the driver when the height difference mean value is greater than a second preset distance; and the driver is connected to the motor, the motor is fixedly connected to a rotary shaft of the rotary decanter.




21: 2025/00711. 22: 2025/01/22. 43: 2025/07/24
51: A61K; C12N; A61P
71: Beijing Friendship Hospital, Capital Medical University
72: CAO, Chunmei, GUO, Jing, ZHU, Kun, LI, Jingchen, DAI, Rilei
33: CN 31: 202411859598.X 32: 2024-12-17

**54: USE OF SRSF1 IN PREPARATION OF MEDICAMENT FOR PROPHYLAXIS AND/OR TREATMENT OF HEART FAILURE WITH PRESERVED EJECTION FRACTION**

00: -
Provided is use of serine/arginine splicing factor 1 (SRSF1) in preparation of a medicament for prophylaxis and/or treatment of heart failure with preserved ejection fraction (HFpEF), which belongs to the field of biomedical technology. The SRSF1 is identified as a key target for preparing a medicament for the prophylaxis and/or treatment of HFpEF. Animal modeling and cellular level experiment has demonstrated that SRSF1 is involved in regulation of the pathological process of the disease. In vivo modeling experiment in SRSF1 endothelial cell-specific knockout mice indicates that inhibiting SRSF1 expression improves symptoms such as diastolic dysfunction and hypertension, alleviates pulmonary edema, and inhibits myocardial fibrosis and remodeling. Moreover, suppressing SRSF1 expression improves abnormal glucose/lipid metabolism and inhibits the endothelial-to-mesenchymal transition process. This application opens a new path for drug screening and provides a new target and a method for the treatment of HFpEF, holding important medical significance and value.




21: 2025/00712. 22: 2025/01/22. 43: 2025/08/04
51: C04B
71: Anhui Water Conservancy Technical College
72: YAO Chunmei, ZHU Bingqing, LING Ru, YANG Hao, MEI Dongsheng, CHEN Wei, LI Jian

**54: MODIFIED RUBBER PARTICLE AND HIGH-PERFORMANCE RUBBER CONCRETE PREPARED BY MODIFIED RUBBER PARTICLE**

00: -
The invention discloses modified rubber particles and high-performance rubber concrete prepared by the modified rubber particles, and belongs to the technical field of building materials. The raw materials of the modified rubber particles of the invention include, by mass, 1000 parts of rubber particles, 8-15 parts of nano silicon dioxide, 150-200 parts of ethanol, 90-100 parts of epoxy resin, 45-55 parts of water, 70-90 parts of curing agent and 1-3 parts of accelerator. The invention further adopts cement, river sand, ceramic sand, crushed stone, modified rubber particles, steel fiber, water reducer and water in a specific ratio to prepare concrete with excellent mechanical properties. The addition of modified rubber particles improves the high brittleness of ordinary concrete, while the addition of steel fiber significantly improves the toughness and crack resistance of concrete, which greatly improves the overall mechanical properties of concrete. The high-performance rubber concrete prepared by the invention has the characteristics of light weight, high strength, high durability and the like, and has low cost, simple preparation method and good application value.

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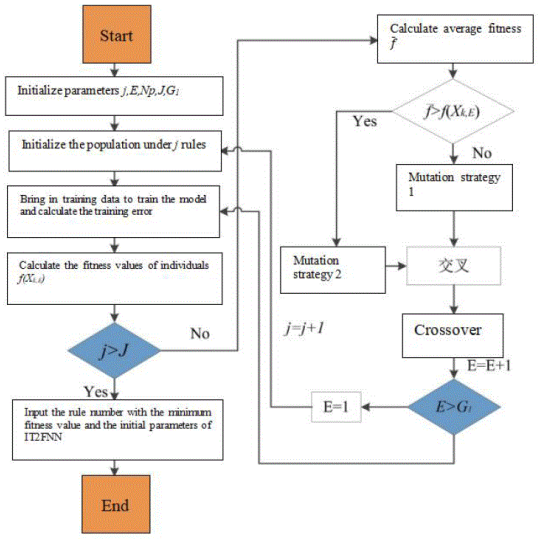
21: 2025/00713. 22: 2025/01/22. 43: 2025/08/04
51: G06F
71: Liaoning Petrochemical University
72: Guo Rui, Zhao Taoyan, Zhu Pengfei, Yin Jiayi, Zhao Ruining, Li Xianhao, Shi Huiyuan, Li Jinna
33: CN 31: 2024119479609 32: 2024-12-27
**54: AN INTERVAL TYPE-2 FUZZY NEURAL NETWORK SOFT-SENSING SYSTEM BASED ON MULTI-STRATEGY AND ADAPTIVE DIFFERENTIAL EVOLUTION ALGORITHM OPTIMIZATION**
00: -
The invention provides an interval type-2 fuzzy neural network soft-sensing system based on multi-strategy and adaptive differential evolution algorithm optimization, which comprises: an input module for collecting data of measurable variables in the system; an optimization module, which including multi-strategy and adaptive differential evolution algorithm, and is used to optimize the structure and parameters of interval type-2 fuzzy neural network; a calculation module is used for soft-sensing unmeasurable process variables based on the optimized interval type-2 fuzzy neural network; an output module is used for outputting the prediction result and transmitting it to the industrial control system for feedback and adjustment. The present invention has high prediction accuracy.

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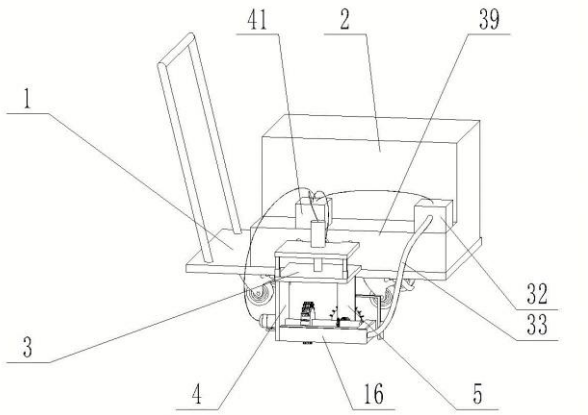
21: 2025/00714. 22: 2025/01/22. 43: 2025/08/04
51: E01C
71: Henan University of Urban Construction
72: YIN Zhenyu, LI Hui, JIA Senchun, ZHANG Qihang
**54: ROAD PAVEMENT POTHOLE MAINTENANCE DEVICE AND CONSTRUCTION METHOD THEREOF**
00: -
The road pavement pothole maintenance device and construction method thereof, including a moving base, arranging outside the pothole and using for moving; a drive part, connecting to that side wall of the mobile base; a cleaning member, connecting to the movable end of the driving member, the drive part is used for drive that cleaning part to lift and move horizontally, the cleaning member is provided with a first cleaning end and a second cleaning end which are arranged along the traveling direction of the moving base, the second clean end is positioned at that rear side of the first clean end, the first clean end is arranged in parallel with and contact with that inner side wall of the pothole, the second cleaning end is vertically arranged and contacted with the inner side wall of the pothole; and a filter is fixed at that top end of the moving base, and the exhaust end of the collection cover is communicated with the filter. When cleaning the inner wall of the pothole,

the invention may not only improve the cleaning effect of the inner wall of the pothole, but also reduce the diffusion of waste and dust.




21: 2025/00715. 22: 2025/01/22. 43: 2025/08/04
51: C02F
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: PANG Dandan, LI Jiebing, YUAN Chenguang, ZHANG Yan, YAN Xu, ZHANG Jinhui, ZHANG Xia, LIU Biao, HE Yang

**54: PIEZOELECTRIC CATALYTIC PERSULFATE ACTIVATION UTILIZING BI2WO6 FOR ENHANCED DEGRADATION OF ORGANIC POLLUTANTS**

00: -

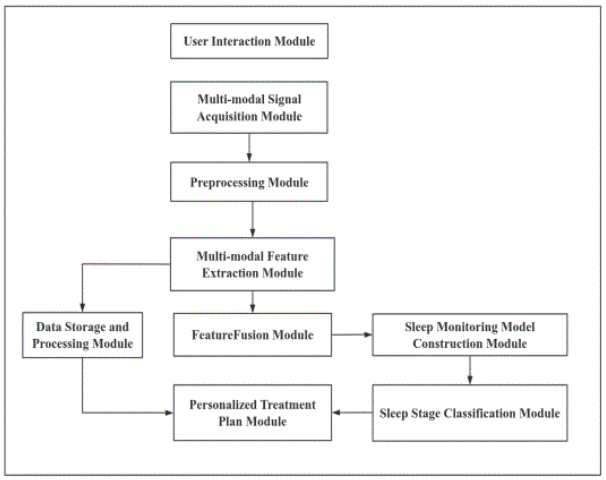
The invention provides a piezoelectric catalytic persulfate activation by Bi2WO6 technology for selectively degrading cationic organic pollutants and a preparation method of Bi2WO6, and the preparation method of Bi2WO6 includes the following steps: dissolving a certain mass of bismuth nitrate pentahydrate and sodium tungstate dihydrate in a certain volume of deionized water, adjusting the pH value of the solution with NaOH, and stirring the mixture by ultrasonic treatment and magnetic stirrer to fully dissolve and mix; adding the above solution to a stainless steel autoclave with a polytetrafluoroethylene liner, and heating at a certain temperature for 24 hours to perform a high-pressure hydrothermal reaction, after cooling the samples, washing with anhydrous ethanol and deionized water until the samples are neutral, and placing the samples in an oven at 60°C for 12 hours until dried, and obtaining a light yellow powder after grinding, which is the Bi2WO6 piezoelectric material catalyst. The Bi2WO6 prepared by the invention can enhance the catalytic degradation activity of organic pollutants by activating persulfate using its piezoelectric effect. The Bi2WO6 prepared by the invention has a better catalytic degradation activity for cationic organic pollutants significantly than that for anionic organic pollutants under the synergistic effect of persulfate.

21: 2025/00716. 22: 2025/01/22. 43: 2025/07/24
51: A61B
71: Beijing Hospital of Traditional Chinese Medicine Affiliated to Capital Medical University
72: Fei Teng

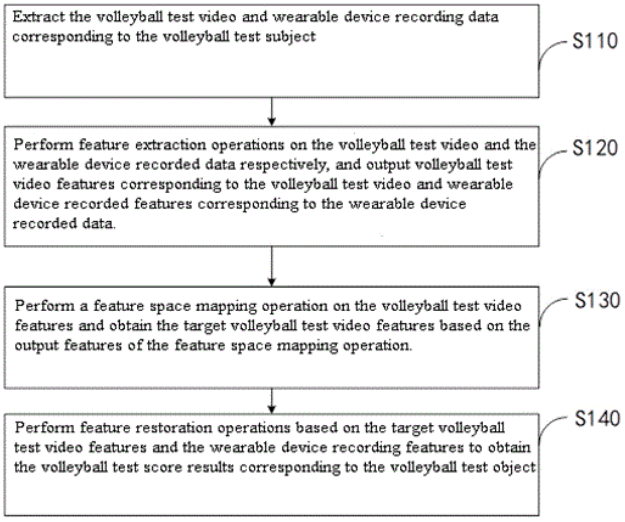
**54: INTELLIGENT SLEEP MONITORING SYSTEM FOR INSOMNIA TREATMENT**

00: -

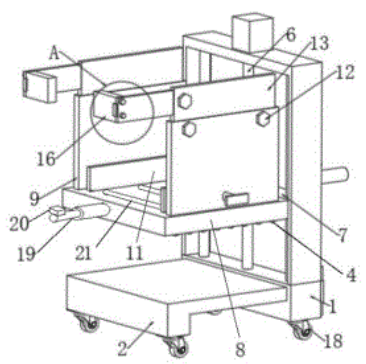
An intelligent sleep monitoring system for insomnia treatment, comprising a multi-modal signal acquisition module, a preprocessing module, a multi-modal feature extraction module, a feature fusion module, a sleep monitoring model construction module, a sleep stage classification module, a personalized treatment plan module, a data storage and processing module and a user interaction module. The invention belongs to the technical field of sleep monitoring, the signal acquisition module captures the user's original physiological signals in real time, and the preprocessing module standardizes the original signals to ensure the accuracy of subsequent analysis; the multi-modal feature extraction module uses a deep learning algorithm to effectively extract time features and frequency domain features, providing rich and accurate data input for the sleep monitoring model, thereby significantly improving the accuracy of sleep stage classification; combined with personalized treatment plans, it achieves effective insomnia treatment by monitoring and analysis of the user's electroencephalogram signals in real time providing accurate sleep stage classification.




21: 2025/00717. 22: 2025/01/22. 43: 2025/07/24
51: G09B
71: Mudanjiang Normal University
72: YU, Jie
33: CN 31: 2024119381297 32: 2024-12-26
**54: METHOD AND SYSTEM FOR SCORING VOLLEYBALL EXAM**
00: -
The present invention provides a method and system for scoring volleyball exam, which relate to the field of volleyball technology . In the present invention, first, the volleyball test video and wearable device recording data corresponding to the volleyball test object are extracted ; secondly, the volleyball test video and the wearable device recording data are subjected to feature extraction operations respectively, and the volleyball test video features corresponding to the volleyball test video and the wearable device recording features corresponding to the wearable device recording data are output; then, the volleyball test video features are subjected to feature space mapping operations, and, based on the output features of the feature space mapping operations, the target volleyball test video features are obtained; finally, feature restoration operations are performed based on the target volleyball test video features and the wearable device recording features to obtain the volleyball test scoring results. Based on the above content , the problem of relatively low reliability of volleyball test scoring in the prior art can be improved .



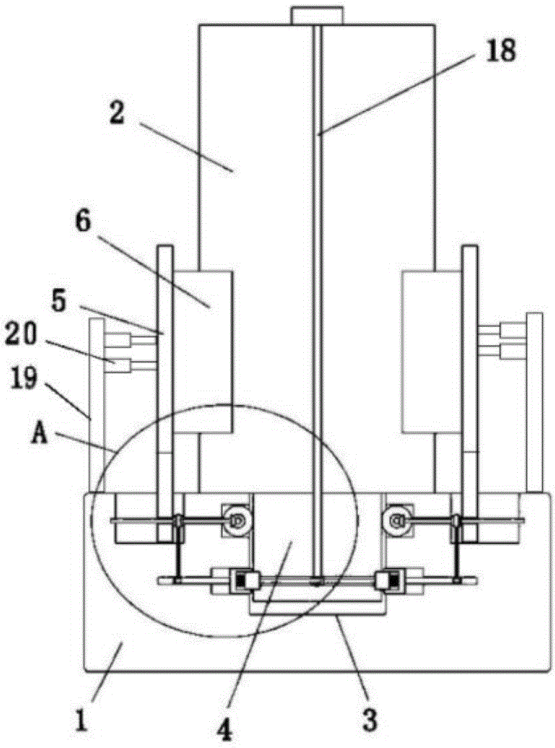

21: 2025/00718. 22: 2025/01/22. 43: 2025/07/24
51: F16M
71: Heilongjiang Institute of Construction Technology
72: LIU, Bin, FAN, Liping, GAO, Tingting, MA, Dongxia, YAN, Jinying
**54: UNIVERSAL MOUNTING APPARATUS FOR SERVER**
00: -
The present invention discloses a universal mounting apparatus for a server, including a walking frame, a lifting assembly, a clamping assembly, and a pushing assembly. The lifting assembly includes a driving mechanism and a carrying plate. The driving mechanism is provided on the walking frame, and the carrying plate is fixedly connected to the driving mechanism; first rollers are rotatably provided on an upper side surface of the carrying plate and are configured to place the server, and the driving mechanism can drive the carrying plate to move vertically. The clamping assembly is provided on the carrying plate and can clamp the server. The pushing assembly is provided on the carrying plate and can push the server to slide on the upper side surface of the carrying plate, and an axial direction of each of the first rollers is perpendicular to a sliding direction of the server.




21: 2025/00719. 22: 2025/01/22. 43: 2025/07/24
51: E01F
71: Henan University of Urban Construction
72: SONG, Xinsheng, GUO, Lulu, NIU, Ganggang, GE, Bingwei, XIA, Yingzhi, ZHANG, Shuo, ZHENG, Chao

**54: TRAFFIC ENGINEERING ANTI-COLLISION DEVICE**

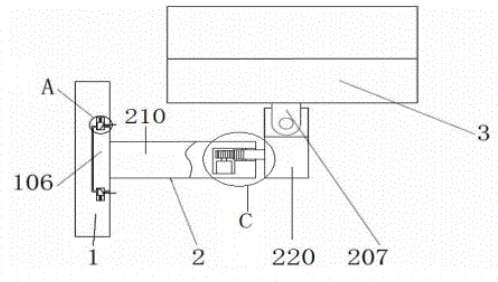
00: -
Disclosed is a traffic engineering anti-collision device, including a counterweight base, a collision post, a limit assembly, a clamp assembly and a support assembly; the collision post can be detachably arranged on the counterweight base; the limit assembly can limit when the collision post is installed on the counterweight base, and can be relieved from the limit between the collision post and the counterweight base; the clamp assembly includes lifting mechanisms and a transmission mechanism that are movably connected to the counterweight base, the transmission mechanism can drive the lifting mechanisms to be close to or away from the collision post for clamping or unclamping when the collision post is installed on or detached from the counterweight base, and the lifting mechanisms can adjust their own height. The traffic engineering anti-collision device facilitates independent replacement of damaged components and reduces the cost.



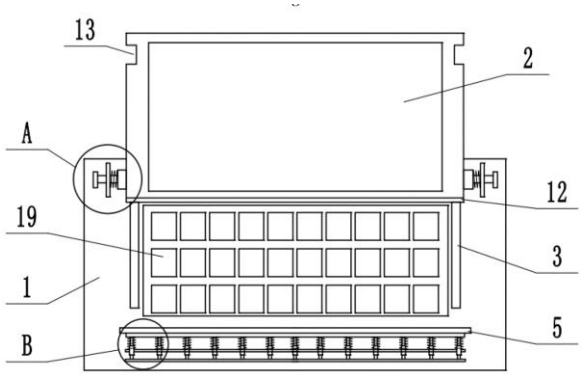

21: 2025/00720. 22: 2025/01/22. 43: 2025/07/24
51: G08B
71: Heilongjiang Institute of Construction Technology
72: GAO, Tingting, LIU, Bin, FAN, Liping, LI, Hongye, MA, Dongxia

**54: ANTI-THEFT ALARM**

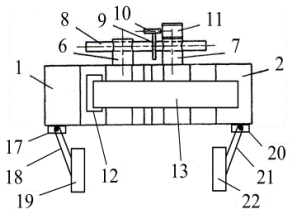
00: -
An anti-theft alarm includes a mounting plate, a support frame, and a video alarm. The support frame includes a fixed frame and a movable frame. The fixed frame is mounted on a side face of the mounting plate. The movable frame is rotatably connected to the fixed frame and driven to rotate by a driving device. The video alarm is mounted on the top of the movable frame. The driving device includes a driving motor, a driving gear, and a sector gear. A connecting plate is fixedly arranged on the movable frame. The sector gear is fixed onto the connecting plate. A gear shaft is fixed to a center part of the sector gear and is rotatably connected onto the fixed frame. The driving motor is mounted in a mounting cavity of the fixed frame. The driving gear is fixed onto an output shaft of the driving motor.




21: 2025/00721. 22: 2025/01/22. 43: 2025/07/24
51: G06F
71: Henan University of Urban Construction
72: GUO, Yufei, WANG, Wenfang, JING, Liya, ZHANG, Yuanyang, LUO, Mengyang, LIU, Xuemei, CHEN, Yuerong
**54: ENGLISH-CHINESE TRANSLATOR FOR ENGLISH MAJORS**
00: -
Disclosed is an English-Chinese translator for English majors, including a body and a display; a buffer assembly is arranged at the bottom of the front of the body, the buffer assembly includes a fixing plate, a force-bearing plate, a connecting plate, a plurality of first springs and a plurality of first moving rods, the force-bearing plate can come into contact with a bottom end of the display, a plurality of fixing guide cylinders are fixedly arranged side by side on the fixing plate, the first moving rods pass through the fixing guide cylinders and can slide along the fixing guide cylinders, one end of each first moving rod is fixedly connected to the force-bearing plate, and the other end of each first moving rod is fixedly connected to the connecting plate. In the present invention, the bottom of the display can be effectively buffered and protected.

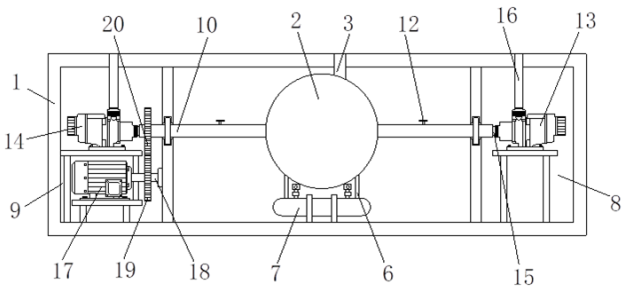



21: 2025/00723. 22: 2025/01/22. 43: 2025/07/24
51: H02G
71: Heilongjiang Institute of Construction Technology
72: LUAN, Kun, LI, Yan, ZHANG, Hongli, ZOU, Jianxin, JING, Yanfeng, WANG, Zipeng, WU, Guizhou
**54: TOWER CLIMBING DEVICE**
00: -
Disclosed is a tower climbing device, which relates to the technical field of electric systems, and includes a left clamping arc plate, a right clamping arc plate, a clamping adjustment mechanism, a connecting mechanism, and a fixation holding mechanism. The left clamping arc plate and the right clamping arc plate are arranged around a tower; a first end of the left clamping arc plate is hinged with a first end of the right clamping arc plate; the clamping adjustment mechanism compresses the climb driving curved surface wheels on the tower; the connecting mechanism locks the second end of the left clamping arc plate and the second end of the right clamping arc plate; and the fixation holding mechanism is separated from the tower when in a first state, and is fixed to the tower when in the second state.

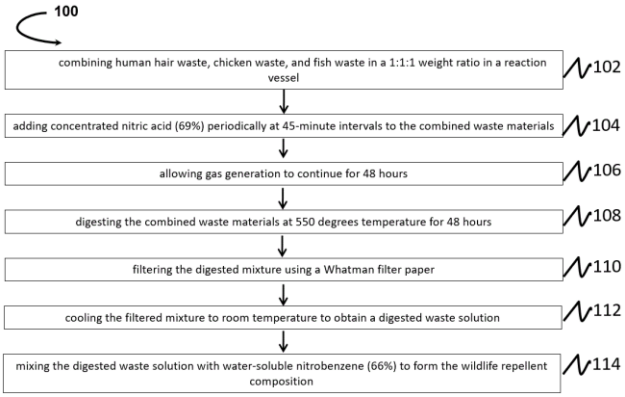



21: 2025/00724. 22: 2025/01/22. 43: 2025/07/24
51: C12M
71: BGRIMM TECHNOLOGY GROUP, YUNNAN COPPER CHIFENG NON-FERROUS METALS CO., LTD.
72: PANG, Zhikun, ZHANG, Chi, MIAO, Yu, LIN, Xingjie, LI, Fangze, ZHANG, Ge, LI, Rui, XIN, Xin, SUN, Qiwei, MA, Haitao, ZHANG, Zhen
**54: MICROORGANISM PROPAGATION DEVICE FOR SIMULATING HIGH-COLD AND HIGH-ALTITUDE ENVIRONMENT**
00: -
The present invention discloses a microorganism propagation device for simulating a high-cold and high-altitude environment, falling within the technical field of microorganism propagation devices. An operation table, a culture chamber glass fiber-reinforced plastic housing, a feeding port, a stainless steel housing and a stainless steel inner container

layer are included. An inner part of the operation table is arranged with the culture chamber glass fiber-reinforced plastic housing, a top end of the culture chamber glass fiber-reinforced plastic housing is arranged with the feeding port, an inner part of the culture chamber glass fiber-reinforced plastic housing is arranged with the stainless steel housing, an inner part of the stainless steel housing is arranged with the stainless steel inner container layer, and a bottom end of the culture chamber glass fiber-reinforced plastic housing is arranged with cooling liquid delivery pipes connected to the stainless steel housing.



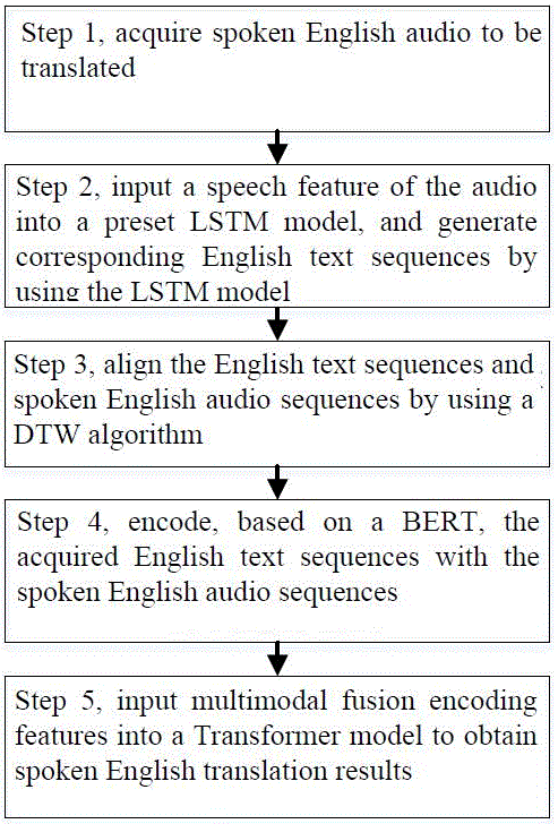

21: 2025/00729. 22: 2025/01/22. 43: 2025/07/24
51: A01M
71: Dr. Amrut Gunwantrao Gaddamwar, Magdi Elsayed Abdelsalam Zaki, Sami Abdul Aziz Al-Hussain, Dr. Rakhi Gajanan Gawali
72: Dr. Amrut Gunwantrao Gaddamwar, Magdi Elsayed Abdelsalam Zaki, Sami Abdul Aziz Al-Hussain, Dr. Rakhi Gajanan Gawali
**54: A METHOD FOR PREPARING A WILDLIFE REPELLENT GAS COMPOSITION**
00: -
The present invention relates to a novel wildlife repellent composition comprises digested human hair waste combined with water-soluble nitrobenzene (66%). The method involves digesting a 1:1:1 mixture of human hair waste, chicken waste, and fish waste with concentrated nitric acid (69%) at 550 degrees for 48 hours, followed by filtration and mixing with water-soluble nitrobenzene. The resulting formulation effectively repels various wildlife species including wild pig, deer, elk, and burrowing rodents. The composition can be applied directly to plants or incorporated into cotton cloth substrates positioned two feet above soil level. The repellent functions through the controlled release of ammonia and odorous compounds upon exposure to sunlight and water. This environmentally sustainable solution addresses both wildlife control needs and hair waste disposal challenges while remaining non-toxic to plants and humans.




21: 2025/00730. 22: 2025/01/22. 43: 2025/07/24
51: C22B
71: Kunming University of Science and Technology
72: Qu tao, Yang Mingliang
**54: METHOD FOR PREPARING MANGANESE-SILICON ALLOY AND ENRICHING LITHIUM FROM LITHIUM OREA**
00: -
Disclosed is a method for preparing manganese-silicon alloy and enriching lithium from lithium ore in the present invention, including the following steps: crushing lithium ore, carbonaceous reducing agent, manganese source and calcareous additive for batching, adding a mixture to a closed submerged arc furnace for high-temperature reduction reaction, collecting a lithium-rich ash in a smoke purification system of the submerged arc furnace, obtaining a manganese-silicon alloy from a tap hole, and recovering an alumina-rich slag from a slag hole. The present invention has the characteristics of simple process flow, low cost, high comprehensive utilization rate of resources, no environmental pollution and solid waste discharge and the like.

21: 2025/00731. 22: 2025/01/22. 43: 2025/07/24
51: G09B
71: Suzhou university
72: YANG Wenfei, MA Lu, ZHANG Yanling
**54: SPOKEN ENGLISH TRANSLATION METHOD, DEVICE, AND STORAGE MEDIUM BASED ON CROSS-MODAL INTERACTION**
00: -
The present invention provides a spoken English translation method, device, and storage medium

based on cross-modal interaction. The method includes: acquiring spoken English audio to be translated, generating corresponding English text sequences using a long short-term memory (LSTM) model; aligning the English text sequences and spoken English audio sequences by using a dynamic time warping (DTW) algorithm; encoding, based on a bidirectional encoder representations from transformers (BERT), the acquired English text sequences with the spoken English audio sequences; and inputting multimodal fusion encoding features into a Transformer model to obtain spoken English translation results. By integrating multimodal information, the present invention makes up for the deficiency of single-mode information in the existing model, address the problem of low translation accuracy caused by the change of accent and speech speed, and enhances the understanding of spoken content in cross-modal scenes.



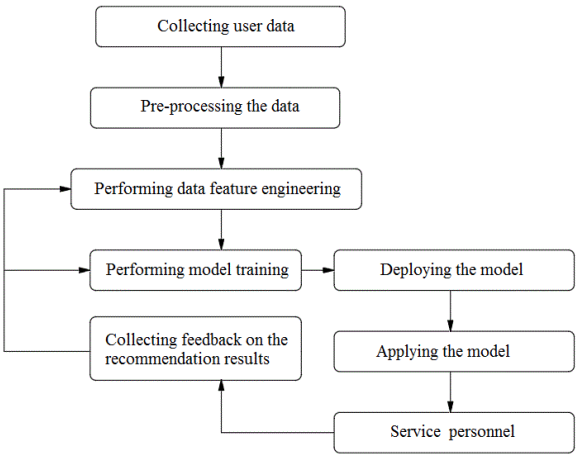

21: 2025/00732. 22: 2025/01/22. 43: 2025/07/24
51: G06F
71: SuZhou University

72: Xiaomei Zhang, Zijia Yu

**54: SESSION RECOMMENDATION METHOD AND SYSTEM BASED ON A CLOUD PLATFORM**

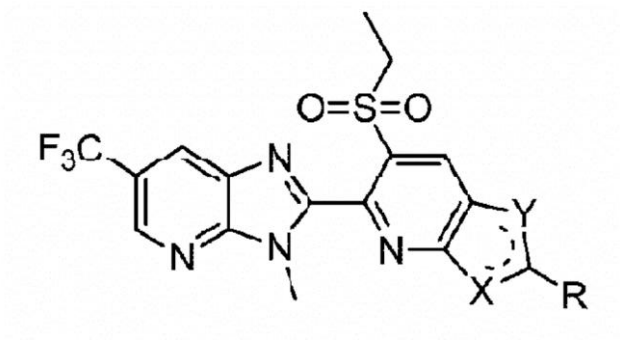
00: -

The present invention discloses a cloud platform-based session recommendation system, comprising a cloud service platform, as well as a data collection unit, an information storage unit, an interactive information processing unit, a cloud service interfacing unit, and a service layer feedback unit, all of which are provided on the cloud service platform. The data collection unit collects data from a data source, and the information storage unit stores the data collected by the data collection unit. The interactive information processing unit utilises a big data processing framework on the cloud service platform to clean, transform, and extract features from the collected data. The cloud service interfacing unit deploys the processed data from the interactive information processing unit and interfaces with service layer personnel, while the service layer feedback unit collects feedback information from service layer personnel to provide feedback to the cloud service interfacing unit. Compared with the prior art, the advantage of the present invention lies in providing a session recommendation method and system based on a cloud platform for deeply analysing user session data based on a cloud platform application to identify user preferences and behaviour patterns.

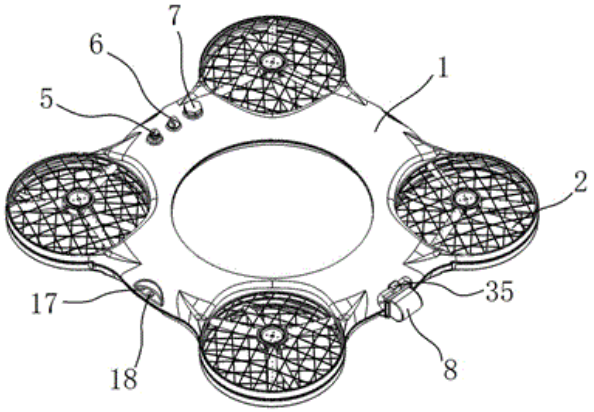



21: 2025/00734. 22: 2025/01/22. 43: 2025/07/25
51: A01N; C07D; A01P
71: JIANGSU FLAG CHEMICAL INDUSTRY CO., LTD

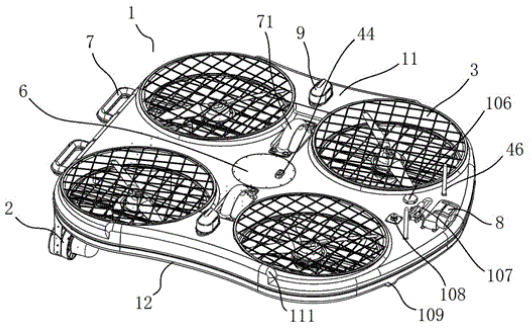
72: ZHANG, Pu, ZHAO, Wen, WANG, Fengyun, YAO, Kaicheng
33: CN 31: 202210906545.3 32: 2022-08-29
**54: FUSED RING COMPOUND WITH SULFUR-CONTAINING SUBSTITUENT, PREPARATION METHOD, INSECTICIDE COMPOSITION, AND USE**
00: -
The present invention belongs to the field of agricultural insecticides and particularly relates to a fused ring compound with a sulfur-containing substituent, a preparation method, an insecticide composition, and use. Compared with the prior art, the present invention has the beneficial effects that: the fused ring compound with a sulfur-containing substituent provided by the present invention has good prevention and treatment effect on many kinds of pests at a relatively low test concentration, providing a basis for research and development of new pesticides.




21: 2025/00735. 22: 2025/01/22. 43: 2025/07/25
51: B63C
71: NANJING KAITIANYAN UAV TECHNOLOGY CO., LTD.
72: CHEN, Chong, SHI, Xiaoyu
33: CN 31: 202221933359.0 32: 2022-07-26
**54: ELECTRIC FLYING LIFEBUOY**
00: -
Disclosed is an electric flying life buoy. The electric flying life buoy includes a housing, flight assemblies, a flight control assembly and a power module; where the housing is a life buoy having an air reserve inner cavity; the flight assembly is symmetrically provided outside the housing; the flight control assembly and the power module are mounted in the housing and are electrically connected to the flight assembly so as to control operation of the flight assembly. The present disclosure combines the life buoy and an unmanned aerial vehicle technology, and flies quickly to reach a drowning person during water area rescue, so as to help the drowning person to escape timely, which greatly improves the rescue efficiency and safety.




21: 2025/00736. 22: 2025/01/22. 43: 2025/07/25
51: B63C
71: NANJING KAITIANYAN UAV TECHNOLOGY CO. LTD
72: CHEN, Chong, SHI, Xiaoyu
33: CN 31: 202221931519.8 32: 2022-07-26
**54: WATER-AIR AMPHIBIOUS LIFESAVING STRETCHER AND CONTROL MODULE**
00: -
Disclosed is a water-air amphibious life-saving stretcher and a control module, where the life-saving stretcher includes a housing, a water surface propulsion assembly, flight assemblies, a control module and a power module; the housing is a buoy stretcher having an air reserve inner cavity; the water surface propulsion assembly is mounted on a lower rear end of the housing, a plurality of flight supports are provided on the housing, the flight assembly is mounted on the flight support, and the control module is mounted in the housing and can control operation of the water surface propulsion assembly and the flight assemblies; the present disclosure designs a water-air amphibious life-saving stretcher and a control module in combination with a life-saving stretcher and an unmanned aerial vehicle.




21: 2025/00741. 22: 2025/01/22. 43: 2025/07/24
51: G01R; H01M
71: SUNVERTEC PTY LTD
72: DAVIES, Kevin, DAVIES, Alexander
33: AU 31: 2022901722 32: 2022-06-22
**54: A BATTERY ENERGY STORAGE SYSTEM**
00: -
The invention is an energy storage system, comprising: a plurality of elongated compartments, each designed to house a string of energy storage cells; each com- partment is equipped with accessible openings, engineered to facilitate the easy5 installation and removal of the storage cells; the compartments being architected to host two or more storage cells, positioned adjacently within its extremities; a retain- ing mechanism is also incorporated, which serves to hold the string of cells firmly pressed together, thereby forming a reliable current path; the system incorporates a balancing mechanism; this mechanism includes a balancing system that comprises0 electrical tabs connecting the junctions of adjacent cells and a mechanism capable of moving charge into and out of these tabs. This movement of charge facilitates charging or discharging of the cells, thereby maintaining balanced voltages across the system.

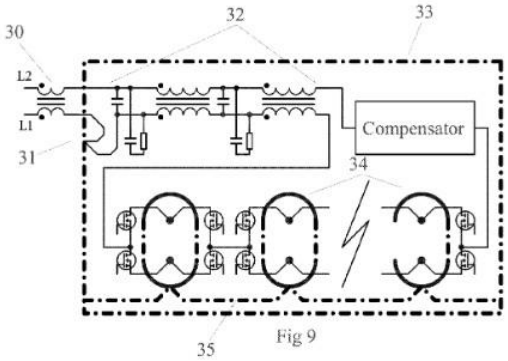
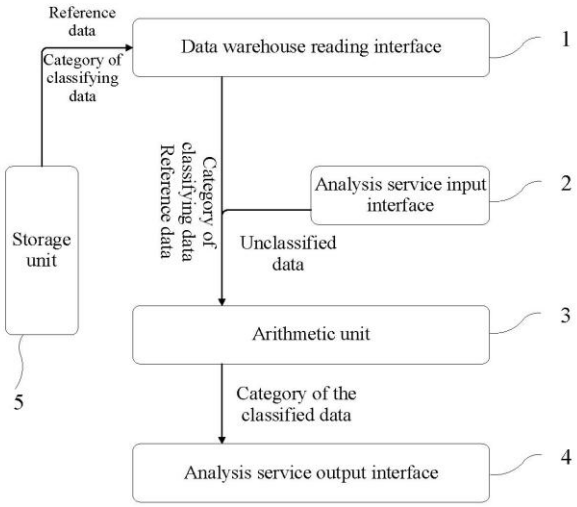


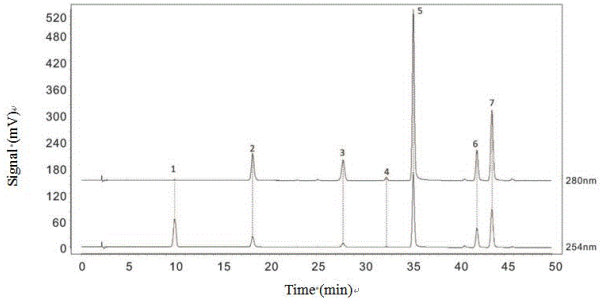
Fig 9

21: 2025/00758. 22: 2025/01/22. 43: 2025/07/24
51: G06F
71: HEBEI NET NEW DIGITAL TECHNOLOGY CO., LTD.
72: YAN, Rongxin, MENG, Fanhua, GU, Lifang
33: CN 31: 202410051642.8 32: 2024-01-15
**54: DATA ANALYSIS METHOD, DEVICE THEREOF AND SYSTEM THEREOF**
00: -
Provided is a data analysis method, a device thereof and a system thereof, and relates to the field of data processing. The method includes: acquiring a category of classifying data; acquiring a data warehouse of each category; acquiring reference data of each of the data warehouses; acquiring unclassified data; obtaining data features of the data warehouse according to data features of classified data in the data warehouse and data features of the corresponding reference data; acquiring and obtaining the category of each classified data according to the data features of unclassified data and the data features of each of the data warehouses. By matching and analyzing the unclassified data with the reference data of each category, the method realizes the accurate classification of the data.

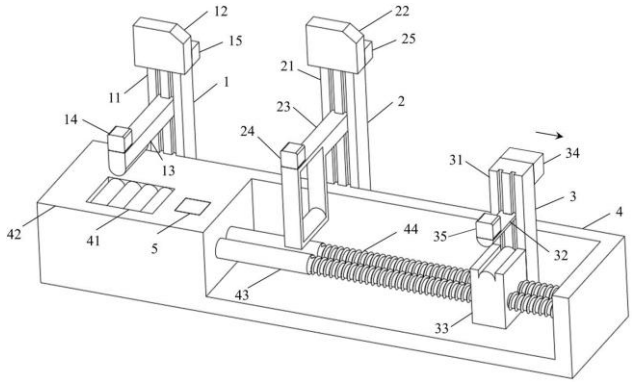



21: 2025/00767. 22: 2025/01/23. 43: 2025/08/04
51: A61K
71: Institute of Chinese Materia Medica China Academy of Chinese Medical Sciences, Linyi Medical Care and Health Industry Research Institute, Linyi Hospital of Traditional Chinese Medicine
72: LI Raorao, GAO Huimin, ZHANG Wei, GU Xuezhu, LUO Lu, ZHANG Haiyan, ZHANG Yiyi, HAN

Yanping, YAO Li, DU Xiyang, ZHANG Peihui, ZHANG Lijun, YANG Yaoyao
33: CN 31: 2024119338564 32: 2024-12-26
**54: A METHOD FOR CONSTRUCTING A FINGERPRINT OF GUALOU NIUBANGTANG**
00: -
The invention discloses a method for constructing a fingerprint of Gualou Niubangtang, and relates to the technical field of analytical chemistry. The determination method of the invention is simple, and has the characteristics of high precision, stability and repeatability. After determination, seven components, namely geniposide, liquiritin, hesperidin, arctiin, baicalin, oroxylin A-7-O-Beta-D-glucuronide and wogonoside, can be used as the common characteristic peaks of the fingerprint of Gualou Niubangtang for identification research.

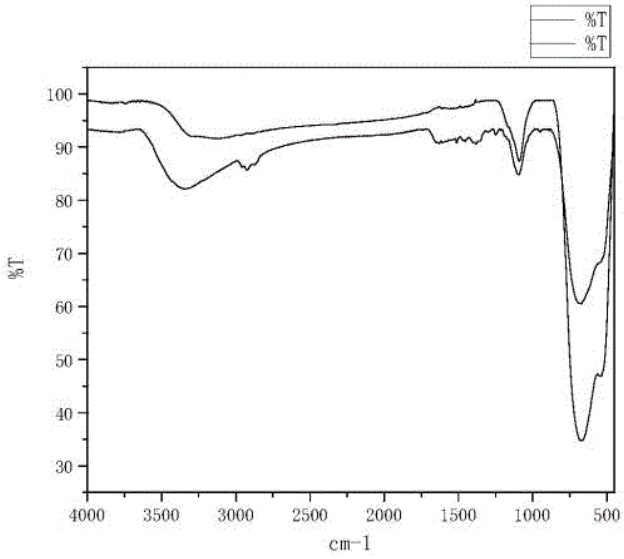



21: 2025/00768. 22: 2025/01/23. 43: 2025/08/04
51: G01N
71: Anhui Polytechnic University
72: SUN Yi, WANG Yong, SUN Xuzhi, XIE Guoqing, LIU Kai, LIU Shirong, TANG Ying, HU Liang, XIE Qi
**54: MEASURING DEVICE AND MEASURING METHOD FOR TACTILE VISUAL COMPREHENSIVE STYLE OF TEXTILE MATERIALS**
00: -
The invention belongs to the technical field of precise measurement of textiles, and discloses a measuring device and measuring method for the tactile visual comprehensive style of textile materials, which include a platform supporting mechanism, a pressure feature mechanism, a drawing feature mechanism and a deformation auxiliary feature mechanism; the pressure feature mechanism includes a pressure rod arranged on the platform supporting mechanism in a lifting way; the drawing feature mechanism includes a drawing rod arranged on the platform supporting mechanism; the deformation auxiliary feature mechanism includes an auxiliary support block slidably connected to the platform support mechanism, and an auxiliary pressure bar is arranged above the auxiliary support block in a lifting way, and textile materials pass through the contact surface of the auxiliary pressure bar and the auxiliary support block. The device provided by the invention is exquisite in structure, various mechanical performance indexes and surface morphology information of textile materials can be obtained through a single device and a single test, so that an efficient, accurate and convenient measurement state of the tactile visual comprehensive style of textile materials can be realized, and the device can be suitable for testing and characterizing various flexible materials including textile materials.



21: 2025/00769. 22: 2025/01/23. 43: 2025/08/04
51: C09D
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: LU Bingxue, HAN Ershuai, ZHAO Zhenxin, GUO Yan, CHEN Wenzhuo, LIU Yi, WANG Zehao, ZHAO Qian, YUAN Chuanbo
**54: MODIFIED GRAPHENE OXIDE WATERBORNE POLYURETHANE ANTICORROSIVE COATING AND PREPARATION METHOD THEREOF**
00: -
The invention belongs to the field of waterborne coatings, and particularly relates to a modified graphene oxide waterborne polyurethane anticorrosive coating and a preparation method thereof. A modified graphene oxide waterborne polyurethane anticorrosive coating, including the following raw materials in parts by weight: 60-85 parts of waterborne polyurethane, 2-6 parts of modified titanium dioxide, 8-16 parts of epoxy resin,

0.2-3 parts of glycerol, 0.2-2 parts of trimethylolpropane, 2-10 parts of dibutyl phthalate, 0.5-5 parts of 901 defoamer, 2-10 parts of barium sulfate, 0.1-2.5 parts of leveling agent and 30-65 parts of water, 0.5-0.8 part of modified graphene oxide. The invention synthesizes an anticorrosive coating with proper solid content, brush resistance, acid and alkali resistance, excellent mechanical properties and weather resistance through modified titanium dioxide and modified graphene oxide.

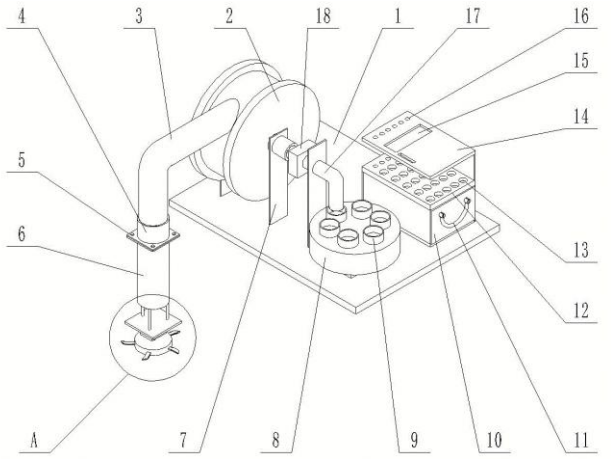



21: 2025/00770. 22: 2025/01/23. 43: 2025/08/04
51: G01N
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: HU Hui, LIU Biao, ZHANG Tingting, SANG Yupeng, LONG Xiaojing, HUANG Zhenyuan, CAO Xuewen

**54: ENVIRONMENTAL GOVERNANCE SAMPLING DEVICE**

00: -

The invention discloses an environmental treatment sampling device, which relates to the technical field of environmental sampling, and comprises a mounting plate, where the top surface of the mounting plate is symmetrically and fixedly connected with a support plate, and a winding wheel is rotatably connected between the two support plates, and a hose is wound around the winding wheel, and the end of the hose is fixedly connected with and communicated with the central shaft of the winding wheel; the top of the counterweight pipe is detachably connected with a connector through a flange, and the connector is fixedly connected and communicated with one end of the hose far from the winding wheel, and the bottom of the counterweight pipe is fixedly connected with a cleaning component; The round table is located above the mounting plate, the bottom surface of the round table is fixedly connected with the output shaft of a second motor, and the second motor is fixedly connected with the mounting plate; a plurality of sampling bottles are circumferentially placed on the top surface of the round table; elbows are arranged above the sampling bottles; the ends of the elbows are fixedly connected and communicated with a water pump; and one side of the water pump far from the elbows is rotationally connected and communicated with the central shaft of the winding wheel. The invention has the advantages of simple and convenient operation, time and labor saving, high efficiency, clear hierarchy, improved experimental precision, and capability of cleaning weeds and preventing entanglement.



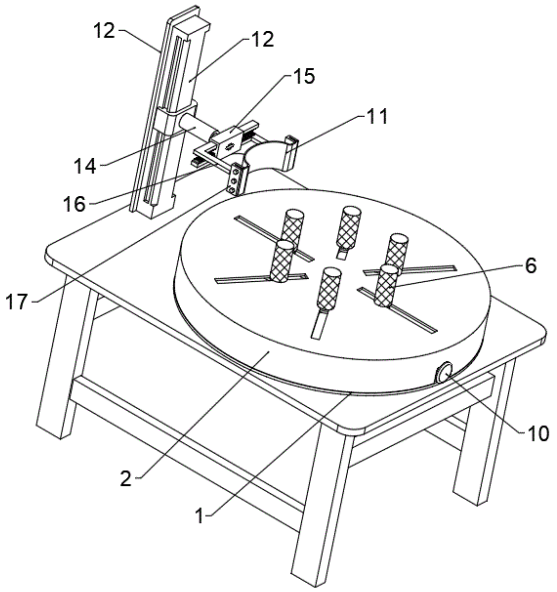

21: 2025/00771. 22: 2025/01/23. 43: 2025/07/24
51: B24B
71: Zhongshan Qili Electric Appliance Co., Ltd.
72: Wenjie Zhang

**54: A GRINDING DEVICE FOR PROCESSING METAL STAMPING**

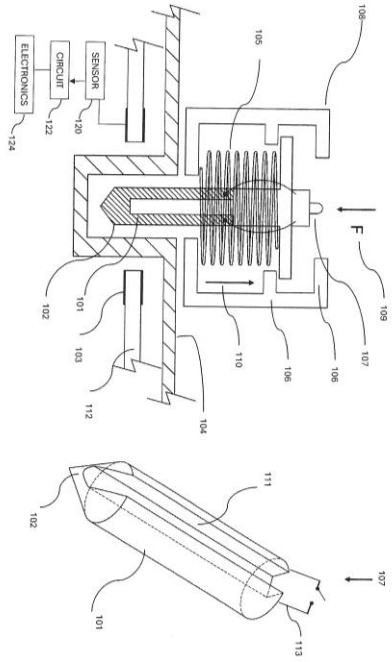
00: -

The present invention relates to the field of grinding devices, and discloses a grinding device for processing metal stamping, including an operating table and a positioning mechanism and a grinding mechanism arranged on the top of the operating table, the positioning mechanism including a base plate and a protective shell, top surface of the protective shell is provided with multiple slide

grooves, a circular plate is arranged inside the protective shell, arc grooves are provided on the circular plate, a slider is slidably connected on each arc groove, a mounting column that runs through each slide groove is fixedly connected to the top of the slider, and a clamping column is installed on the outside of each mounting column; the grinding mechanism includes an sanding belt and a fixed plate, a linear motor is installed on the fixed plate, a cylinder is installed on the mover of the linear motor, a fixed column is installed on the output end of the cylinder, two through slots are arranged through the fixed column, L-shaped rods are installed in the two through slots, and the ends of the two L-shaped rods are fixedly connected to the mounting frame. The present invention wraps the sanding belt on the surface of the stamping, effectively improving the contact area with the stamping, thereby improving the stamping grinding efficiency.

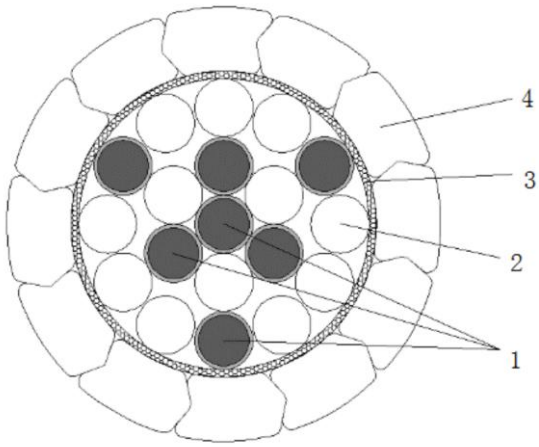



21: 2025/00772. 22: 2025/01/23. 43: 2025/07/24
51: H03K
71: AZOTEQ HOLDINGS LIMITED
72: BRUWER, Frederick Johannes, BRUWER, Frederick Johannes Jnr.
33: ZA 31: 2024/00806 32: 2024-01-24
**54: NON-CONTACT INDUCTIVE SWITCH**
00: -
The use of inductive and Hall effect measurements to allow a movement and displacement-based user interface to be implemented without requiring electrical connections to the inside of a sealed product housing.




21: 2025/00773. 22: 2025/01/23. 43: 2025/07/24
51: H01B
71: JIANGSU HENGTONG ELECTRIC POWER SPECIAL WIRE CO., LTD.
72: YANG Lijun, WU Songmei, ZHU Hongliang, LI Hanlin, SUN Leyu, SHI Xin, CHENG Lei, HOU Yan, MENG Xianghui, CUI Jiayu, TIAN Yinfa, DING QIfan, XU Yikai
33: CN 31: 2024107045276 32: 2024-06-03
**54: STRANDED WIRE BASED ON ALUMINUM-CLAD INVAR STEEL CORE AND THERMORESISTANT ALUMINUM ALLOY SHAPED WIRE AND METHOD FOR FABRICATING THE SAME**
00: -
The present disclosure discloses a stranded wire based on aluminum-clad invar steel core/thermoresistant aluminum alloy shaped wire, including: a central wire core, a stranded steel/aluminum composite layer concentrically stranded around the central wire core, a wrapped layer concentrically wrapped around the stranded steel/aluminum composite layer, and a stranded shaped wire layer concentrically stranded around the wrapped layer. The central wire core is an aluminum-clad invar steel wire. The stranded steel/aluminum composite layer includes a plurality

of aluminum-clad invar steel wires and a plurality of thermoresistant aluminum alloy round wires, and the plurality of aluminum-clad invar steel wires are not in contact with each other. The wrapped layer is a hollow semi-conductive belt. The stranded shaped wire layer includes a plurality of thermoresistant aluminum alloy shaped wires. By improving the thermoresistant aluminum alloy material composition, the rolling and heating process, the shaped wire surface treatment process, and the wire stranding process, the present disclosure brings the electric conductivity of the thermoresistant aluminum alloy wire to 62.2% IACS or more and the tensile strength to 202 MPa or more, and provides the stranded wire based on aluminum-clad invar steel core/thermoresistant aluminum alloy shaped wire with excellent electric conductivity, tensile strength, thermoresistance, and damping properties.

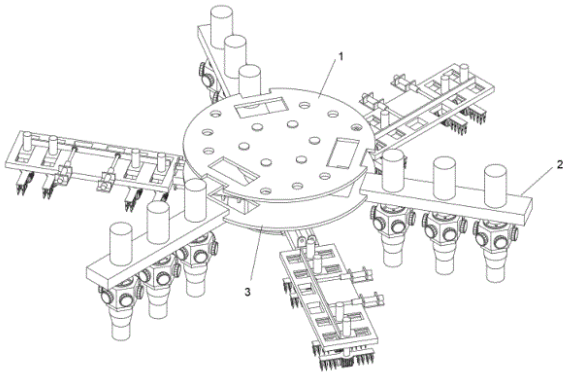



21: 2025/00775. 22: 2025/01/23. 43: 2025/07/24
51: G01N
71: No.1 Exploration Institute of Geology Resources of Qinghai Province
72: WANG, Bin, WANG, Lei, XIE, Hailin, LI, Peigeng, LI, Jian, LI, Peng, LIU, Xiufeng, CHEN, Sulong, QI, Dong, LI, Yulian, SONG, Zhongning, HAN, Yu, DUO, Deying, ZHANG, Zhengzhi, GUO, Wei

**54: PROSPECTING METHOD FOR CHROMIUM ORE**

00: -

The present invention relates to the technical field of chromium ore mining, in particular to a prospecting method for chromium ore, including the following steps: S1: making a prospecting plan, collecting data and selecting instruments and equipment; S2: performing field prospecting, and taking samples by sampling equipment; and S3: collecting and analyzing sampling data, and detecting and analyzing sample contents. According to the present invention, the soil in the sampling area can be easily loosed and crushed, so that the sampling cylinders are convenient for sampling treatment after insertion at a specified depth; moreover, the sampling is fast and convenient, and the number of samples taken one time is large, so that the detection results are more accurate and the chromium ore can be discovered accurately.



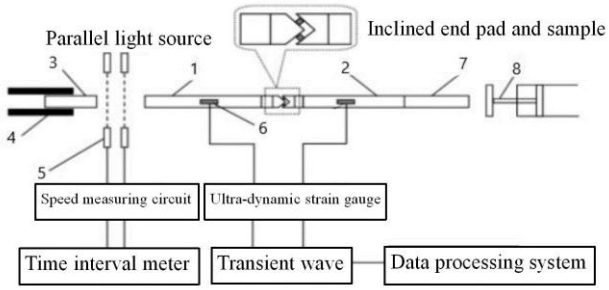

21: 2025/00776. 22: 2025/01/23. 43: 2025/08/04
51: G01N
71: HENAN POLYTECHNIC UNIVERSITY
72: WANG Shuren, LIU Yonggui, GONG Jian, SHEN Lingyan

**54: DEVICE FOR COMPRESSION-SHEAR COMBINED LOADING TEST AND TESTING METHOD THEREOF**

00: -

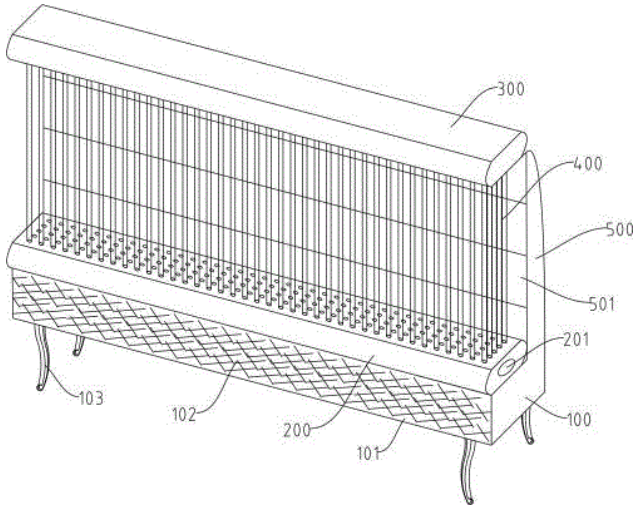
The invention discloses a compression -shear combined loading test device and a test method thereof, relating to the technical field of impact dynamics, including an incident rod, a transmission rod; two cushion blocks respectively connected with the incident rod and the transmission rod; one cushion block is provided with a V-shaped groove, and the other cushion block is a limiting block with a triangular cross section; the V-shaped groove is matched with the limiting block; the impact assembly impacts the incident rod to generate initial loading stress fluctuation; two strain gauges respectively arranged on the incident rod and the transmission rod; two samples are respectively clamped between two pads, and the two ends of the two samples are respectively located on the two inner walls of the V-shaped groove and the outer wall of the limiting

block, when the impact assembly impacts the incident rod, the dynamic stress-strain relationship of the samples is obtained according to the stress change information obtained by the two strain gauges on the incident rod and the transmission rod. The invention expands the dynamic performance of the material from one-dimensional stress to composite stress, and provides experimental support for establish the yield criterion of the material in a complex stress state.



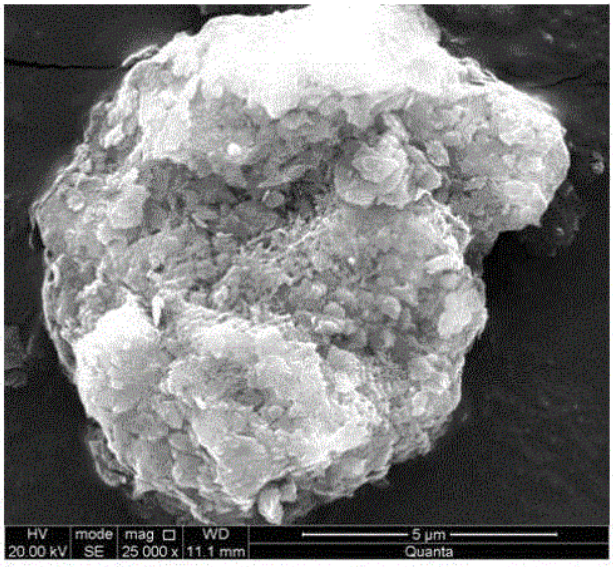

21: 2025/00777. 22: 2025/01/23. 43: 2025/08/04
51: F24D
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: ZHAO Xingtao, ZHANG Xiaodong, LI Huitao, JIN Junjie, WANG Shuai
**54: RADIATION CONVECTION RADIATOR**
00: -

The invention discloses a radiation convection radiator, which comprises a substrate, a capillary radiating pipe group, a water collector, a water separator and an air circulation component; the water collector and the water separator are installed on the substrate, wherein the water separator is located at the upper end of the water collector; the capillary radiating pipe group is installed between the water collector and the water separator; the air circulation component is installed on the substrate to drive cold air to dissipate heat through the capillary radiating pipe group and be discharged. The invention has reasonable design and ingenious structure, is used for heating, and adopts a plurality of capillary radiating pipes as radiating elements, so that the radiating effect is good, the radiating area is large, and the heating effect is good; it can not only overcome the problems of energy waste and uneven radiating and heating caused by central heating, but also has the advantage of more energy saving than traditional household radiators, indirectly reducing the emission of carbon dioxide, and has a bright future.




21: 2025/00778. 22: 2025/01/23. 43: 2025/08/04
51: B01J
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: ZHANG Yan, PANG Dandan, FU Yongmei, HAN Lin, DIAN Pingge
**54: ADSORBENT FOR REMOVING NAPHTHOL GREEN B**
00: -

The invention provides an adsorbent for removing naphthol green B, which comprises the following raw materials in parts by mass: 10-30 parts of illite ore, 5-10 parts of hazelnut shell biochar and 2-3 parts of cetyltrimethylammonium bromide. The preparation process of the adsorbent is simple and the reaction conditions are mild. The adsorbent of the invention has strong adsorption capacity for anionic dyes in water, and the time for reaching adsorption equilibrium is fast, so it is a good adsorption material for treating anionic dyes in wastewater.




21: 2025/00779. 22: 2025/01/23. 43: 2025/08/04
51: B01J
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: PANG Dandan, LI Jiebing, HE Yang, LI Hang, ZHANG Yan, ZHANG Xia, ZHANG Jinhui, YAN Xu, LIU Biao

**54: EFFICIENT DEGRADATION OF RHODAMINE B BY COUPLING EFFECT OF PIEZO-PHOTOCATALYSIS OF BIOCL/TIO2**

00: -

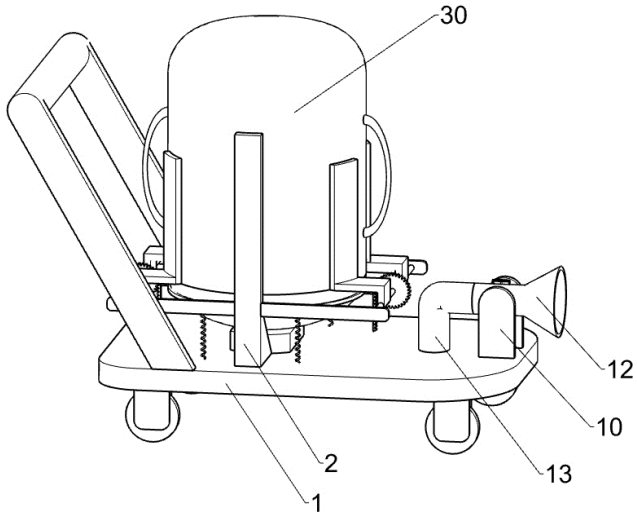
The invention provides a method for preparing BiOCl/TiO2 composite catalyst for removing Rhodamine B by the coupling effect of piezo-photocatalysis, which comprises the following steps: dissolving bismuth nitrate pentahydrate and potassium chloride with a certain mass in deionized water with a certain volume, adjusting the pH value of the solution with sodium hydroxide solution, and carrying out hydrothermal synthesis reaction at high temperature and high pressure with a stainless steel hydrothermal autoclave reactor after vigorous stirring. Then removing the supernatant, washing the obtained solid with deionized water and anhydrous ethanol to neutrality, and drying and grinding to obtain the BiOCl bismuth-based piezoelectric material. Dissolving a certain proportion of BiOCl and TiO2 in a certain volume of anhydrous ethanol, stir evenly, air dry at room temperature, and dry in a blast drying oven to obtain the BiOCl/TTiO2 composite catalyst. The BiOCl/TiO2 composite catalyst prepared by the invention has strong catalytic degradation ability for Rhodamine B in water under the driving of simulated solar light and mechanical stirring. It is a good catalyst material for treating organic pollutants in wastewater by using solar energy and fluid mechanical energy.

21: 2025/00783. 22: 2025/01/23. 43: 2025/07/30
51: A62C
71: Henan University of Urban Construction
72: Bing Jia, Yiju Tang, Zhanfeng Huang, Quan Lou, Wenyan Wang, Shijie Yuan, Pan Lin, Huanyu Zhou

**54: A SAFETY FIRE PREVENTION DEVICE FOR MINES**

00: -

The invention relates to the technical field of safety fire prevention for mining, in particular to a safety fire prevention device for mining, comprising a trolley, the top of the trolley is installed with a symmetrical distribution mounting frame, the mounting frame is provided with a vertical chute, a sliding block is connected in the vertical chute, and a press ring is fixed between the symmetrical distribution of the sliding block. The press ring and the top of the trolley are fixedly connected with a supporting spring in a circumferential distribution, the top of the trolley is fixedly connected with a base, the base is fixedly connected with a connecting frame, the connecting frame is provided with a pushing block. The invention can realize the free replacement of the fire extinguishing tank through the clamping component, so as to avoid that the high-pressure fire extinguishing materials in the fire extinguishing tank cannot be replaced after being used up, thus affecting the fire extinguishing or causing waste.

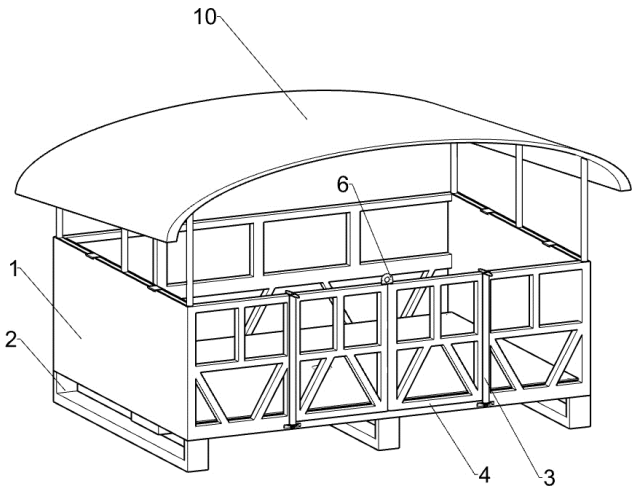


21: 2025/00784. 22: 2025/01/23. 43: 2025/07/30
51: E04G
71: Henan University of Urban Construction
72: Bing Jia, Quan Lou, Yiju Tang, Hao Yang, Pan Lin, Huanyu Zhou, Wenyan Wang, Jielei Shi

**54: A CONSTRUCTION SAFETY BASKET WITH A PROTECTIVE STRUCTURE**

00: -

The present invention relates to the technical field of construction safety baskets, specifically to a construction safety basket with a protective structure. The basket includes a hanging basket, wherein the bottom of the basket is fixedly connected with evenly distributed supports. The basket is rotatably connected with symmetrically distributed shafts, and the shafts are connected to door frames. The top of the door frame is provided with insertion holes, and symmetrically distributed insertion rods are arranged within the insertion holes. The basket is provided with symmetrically distributed sliding slots, and a movable frame is slidably connected within the sliding slots. In this invention, the base plate moves downward under the action of gravity, compressing the connecting spring. The downward movement of the base plate drives the connecting rod downward. As the connecting rod moves downward, its track groove enables the spur gear to rotate. The rotation of the spur gear drives the rack to move, which in turn moves the counterweights. The two counterweights move toward each other, causing the weight of the basket to concentrate toward the center. This design prevents excessive swaying of the hanging basket in the air when wind forces are strong, thereby reducing potential safety risks.

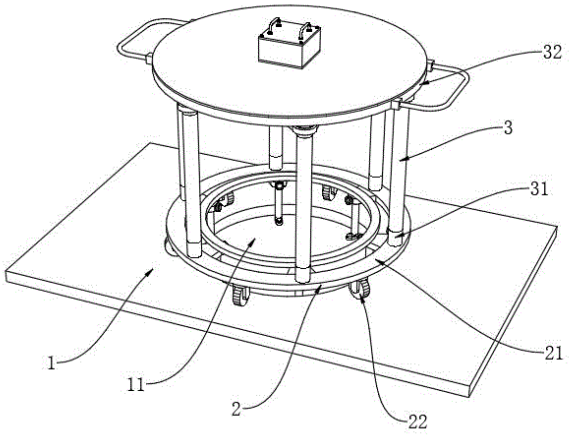



21: 2025/00785. 22: 2025/01/23. 43: 2025/07/30
51: E04G
71: Henan University of Urban Construction
72: Bing Jia, Yiju Tang, Quan Lou, Zhanfeng Huang, Shijie Yuan, Pan Lin, Huanyu Zhou, Wenyan Wang

**54: A SAFETY PROTECTION DEVICE FOR URBAN UNDERGROUND SPACE CONSTRUCTION**

00: -

The present invention relates to the field of construction protection technology and discloses a safety protection device for urban underground space construction. The device includes a road surface, with a manhole set at the top of the road surface. A movable positioning mechanism is arranged at the top of the road surface, and a warning mechanism is installed at the top of the movable positioning mechanism. The movable positioning mechanism comprises an annular base, with universal wheels fixedly mounted at the bottom of the annular base. Through the overall design of the movable positioning mechanism, the limiting rod can be inserted into the inner cavity of the manhole by loosening the positioning bolts. By rotating the limiting block, the movable positioning mechanism and the warning mechanism can be entirely secured to the top of the road surface using the manhole. This prevents the structure from being easily toppled by natural wind within the construction environment, ensuring the warning effect of the structure. Additionally, with the design of the warning light, it can emit warning light through the transparent cylinder, solving the problem of poor warning effects in dim environments when relying solely on reflective surfaces.

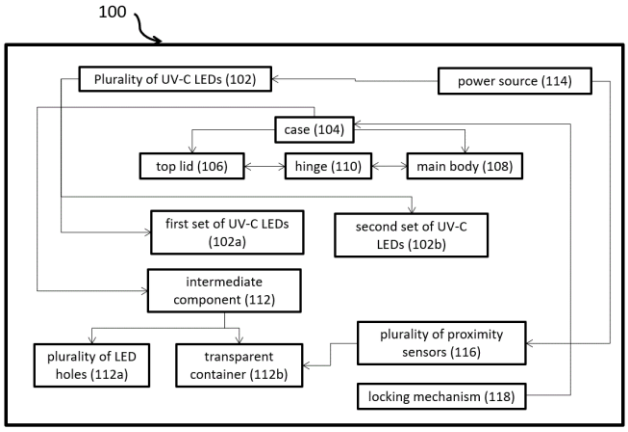



21: 2025/00786. 22: 2025/01/23. 43: 2025/07/30
51: A61L
71: Shamit Shrivastav, Dr. Amit Kundal, Dr. Mritunjay Kumar
72: Shamit Shrivastav, Dr. Amit Kundal, Dr. Mritunjay Kumar

**54: AN ULTRAVIOLET-BASED PACIFIER STERILIZATION DEVICE AND A METHOD FOR THE SAME**

00: -

The present invention provides an ultraviolet-based pacifier sterilization device and a method for the same. The device includes a case with top lip and main bodyfor effective and safe sterilization of pacifiers using ultraviolet (UV-C) light technology. The case features a top lid with a secure locking mechanism, which engages with the main body to prevent accidental UV exposure during operation. Embedded UV-C LEDs in both the lid and main body emit germicidal light at a wavelength of 200-280 nm to sterilize the pacifier nipple from all angles. A transparent, BPA-free container securely holds the pacifier nipple while allowing optimal light penetration. The device includes proximity sensors that activate the UV-C LEDs only when the pacifier is properly positioned. Powered by a portable 9V battery, the case is designed for both home and travel use, providing convenient, automatic sterilization with a preset cycle duration and safety features to deactivate the LEDs once the sterilization cycle is complete.

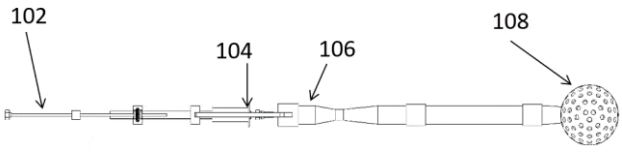



21: 2025/00787. 22: 2025/01/23. 43: 2025/07/30
51: F23D
71: Dr. Arman Ovla, Sandeep Bajrangi Bari, Dr. Satyaki Roy, Dr. Shatrupa T. Roy
72: Dr. Arman Ovla, Sandeep Bajrangi Bari, Dr. Satyaki Roy, Dr. Shatrupa T. Roy

**54: A GAS BURNER WITH MULTIPLE ADJUSTMENT PARAMETERS**

00: -

The present invention relates to a gas burner assembly with adjustment parameters. The proposed gas burning assembly mainly includes an adjustable gas pipe, an adjustable air shutter, a venturi tube, and a hemispherical burner head. In this invention, the adjustable gas pipe, adjustable air shutter, and venturi tube operates together in order to develop a robust and highly effective burning mechanism. The design of the proposed assembly allows precise control over the burner's performance, improving the firing process in pottery kilns. All parts are adjustable and can be modified to serve different purposes.

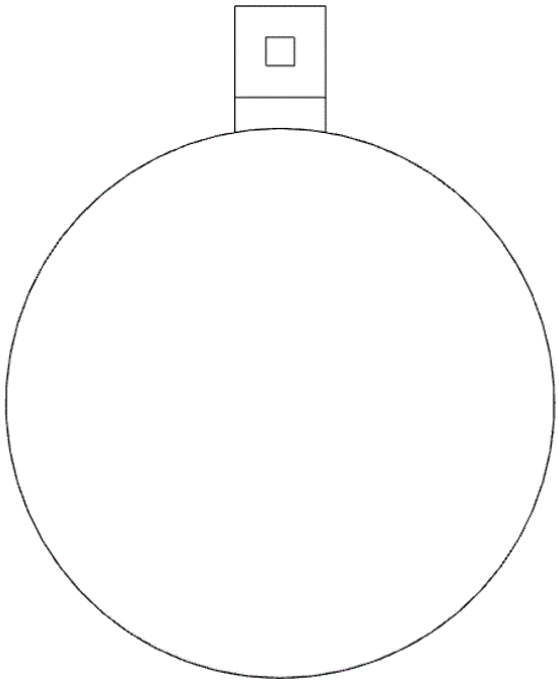



21: 2025/00788. 22: 2025/01/23. 43: 2025/07/30
51: F27B
71: Dr. Arman Ovla, Dr. Satyaki Roy, Dr. Shatarupa Thakurta Roy
72: Dr. Arman Ovla, Dr. Satyaki Roy, Dr. Shatarupa Thakurta Roy

**54: A SUSTAINABLE POTTERY KILN SYSTEM FOR POTTERY FIRING**

00: -

The present invention relates to a sustainable pottery kiln system for pottery firing. The system mainly includes seven components namely the platform, chamber, dome, heat source, shelf, draft, and chimney, all set on a raised platform for stability and ease of use. The kiln system is constructed from standard bricks and clay, emphasizing a double-shell dome structure with a single chimney. This kiln design prioritizes user safety and enhances firing efficiency, making it suitable for both local potters and studio use. The kiln's volume is approximately 1050 liters, optimized to meet the requirements of potters at various scales.

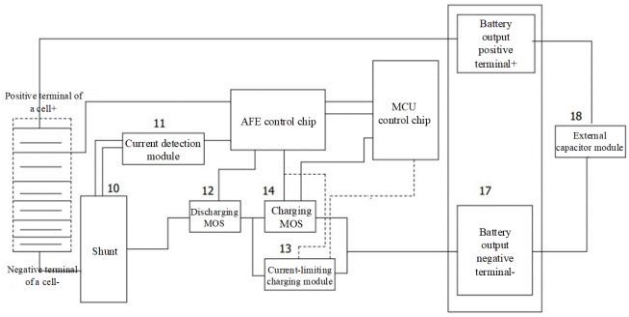


21: 2025/00789. 22: 2025/01/23. 43: 2025/07/30
51: F02N
71: Shenzhen Mingtang New Energy Technology Co., Ltd.
72: Zeng, Wujun, Diao, Yingjun, Fu, Jiabin, Luo, Mingxiang, Li, Zhiru, Wang, Jun
33: CN 31: 202420972177.7 32: 2024-05-07

**54: TRUCK IGNITION STARTING APPARATUS**

00: -

The present invention belongs to the field of circuit protection technology and relates to a truck ignition starting apparatus, including: a shunt resistor R1, a current detection module, a discharging MOS module, a current-limiting charging module, a charging MOS module, an AFE control chip, an MCU control chip, a battery positive and negative output module, and an external capacitor module. The AFE control chip is connected to a positive terminal of a cell, the current detection module, the discharging MOS module, the charging MOS module, and the MCU control chip separately, the current detection module is also connected to the shunt resistor, the discharging MOS module is also connected to the shunt resistor, the charging MOS module, and the current-limiting charging module separately, the current-limiting charging module is also connected to the battery positive and negative output module, and the battery positive and negative output module is also connected to the external capacitor module. A current-limiting charging part and an external large capacitor are added, and the current-limiting part can limit a magnitude of a charging current when a cell is at high voltage, thereby protecting the cell.



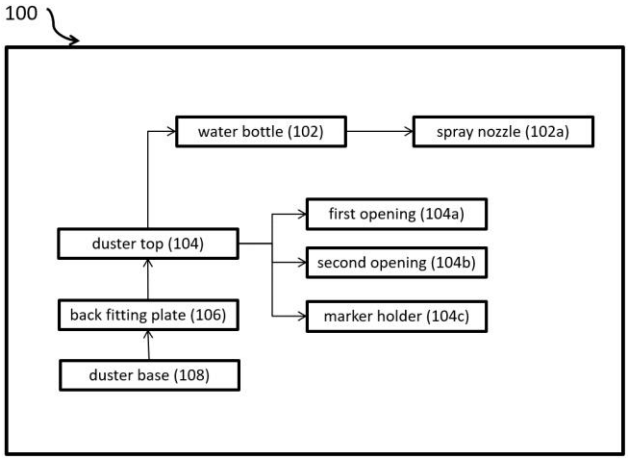

21: 2025/00790. 22: 2025/01/23. 43: 2025/07/30
51: B08B
71: Shamit Shrivastav, Dr. Amit Kundal, Fenil Chandrana, Dr. Mritunjay Kumar
72: Shamit Shrivastav, Dr. Amit Kundal, Fenil Chandrana, Dr. Mritunjay Kumar

**54: A WATER INFUSED WHITEBOARD DUSTING DEVICE AND A METHOD FOR OPERATING THE SAME**

00: -

The present invention provides a water-infused whiteboard dusting device designed for efficient cleaning and user convenience. It features a duster top cover with a marker holder, a spray nozzle opening, and a transparent water level indicator. A replaceable water bottle with a manually operated spray nozzle fits securely within the cover, ensuring precise water application to the whiteboard surface. The duster includes a durable erasing base for effective ink removal and a snap-on back fitting plate for structural stability and ease of assembly. The

method for cleaning whiteboard involves filling the duster's water bottle, aligning the spray nozzle with the opening, and dispensing water onto the surface. The erasing surface is then used to wipe off ink, with refills monitored through the water level indicator.The design of the device promotes convenience, allowing users to access markers easily and monitor water levels, while the replaceable water bottle ensures extended usability.

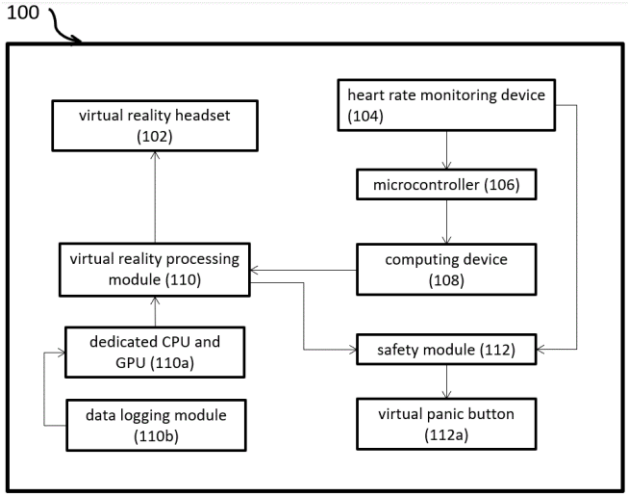



21: 2025/00791. 22: 2025/01/23. 43: 2025/07/30
51: A61B
71: Dr. Rahul Kumar Ray, Dr. Chiranjoy Chattopadhyay, Rudra Krishna, Mr. Suyash Lal
72: Dr. Rahul Kumar Ray, Dr. Chiranjoy Chattopadhyay, Rudra Krishna, Mr. Suyash Lal

**54: A SYSTEM AND METHOD FOR CLOSED-LOOP ARACHNOPHOBIA MANAGEMENT IN VIRTUAL REALITY ENVIRONMENT**

00: -

The present invention relates to a system and method for closed-loop arachnophobia management in virtual reality environment. The proposed closed-loop virtual reality (VR) system for treating arachnophobia dynamically adapts to user's physiological responses. The system comprises a VR headset, a MAX30102 heart rate sensor connected to an ESP32 microcontroller, and a Unity-based application that renders an immersive environment with virtual spiders. The system continuously monitors the user's heart rate and automatically adjusts the exposure intensity by controlling the number, proximity, and behavior of virtual spiders. When heart rate remains below a threshold, the system gradually increases exposure; when elevated, it reduces intensity. Virtual spiders feature illuminated markers and synchronized audio-visual feedback for enhanced immersion. Safety features include a virtual panic button and automatic intensity reduction upon detecting rapid heart rate increases. The present invention provides measurable, personalized exposure therapy while maintaining user comfort through real-time biofeedback adaptation.



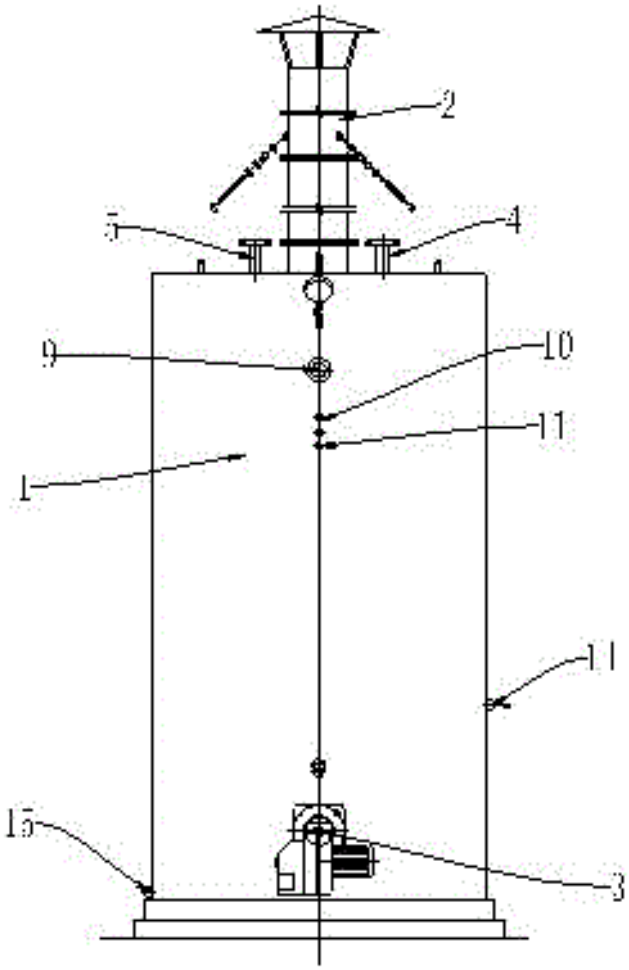

21: 2025/00792. 22: 2025/01/23. 43: 2025/07/30
51: F27B
71: Henan Zhixin Boiler Technology Innovation Co., Ltd
72: FENG Jiaju, ZHENG Xueyu, LIANG Kunlong, CHENG Hekang, WANG Zhenquan, FENG Kun, XU Yu, SUN Chenguang, LIU Junjie, FENG Shaohua, FENG Ruoyan, TIAN Zhen, MA Ran, FENG Jinqi, FENG Guanghao, YANG Yuzhen, KONG Yudie

**54: VERTICAL GAS-FIRED VACUUM BOILER**

00: -

Disclosed is a vertical gas-fired vacuum boiler in the present application, relating to the technical field of vacuum filtration. According to the present application, a boiler body is included, a flue-gas outlet is mounted at an upper end of the boiler body, a burner is mounted at the a side face of the boiler body, an air space is arranged inside the boiler body, a water level sight glass is mounted on the boiler body, a water supply pipe orifice is mounted at the side face of the boiler body, a blow-down pipe orifice is mounted at a bottom of the boiler body, and a heat exchange structure is arranged inside the air space. The boiler of the present application is safe and reliable, energy-saving and environmentally

friendly, with high thermal efficiency and high fuel utilization rate.




21: 2025/00797. 22: 2025/01/23. 43: 2025/08/04
51: A61P
71: THE THIRD AFFILIATED HOSPITAL OF GUANGZHOU MEDICAL UNIVERSITY (GUANGZHOU INTENSIVE CARE CENTER FOR PREGNANT AND PREGNANT WOMEN, GUANGZHOU ROUJI HOSPITAL)
72: LIANG, Peili, WANG, Zhihui, ZHANG, Yuping, ZOU, Haijiao, LIN, Rongjin, SHENG, Xiujie, ZHOU, Dongmei, LI, Baixue, LI, Pu, LIANG, Peiji, JIANG, Yinan, LIU, Yan

**54: APPLICATION OF NAT10 IN THE DIRECTION OF POOR PROGNOSIS MARKER AND DRUG FOR TREATING CERVICAL CANCER**

00: -

The present invention provides an application of NAT10 in the direction of poor prognosis marker and drug for treating cervical cancer. The present invention provides contents in the following four aspects: first, an application of NAT10 as a marker in preparation of a product for assessing the risk of cervical cancer and/or the risk of poor prognosis of cervical cancer; second, an application of a reagent for testing the NAT10 expression quantity in preparation of the product for assessing the risk of cervical cancer and/or the risk of poor prognosis of cervical cancer; third, an application of NAT10 or coding gene thereof as a target in preparation of a product for preventing and/or treating cervical cancer and/or poor prognosis of cervical cancer; and fourth, an application of an NAT10 inhibitor in preparation of the product for preventing and/or treating cervical cancer and/or poor prognosis of cervical cancer.

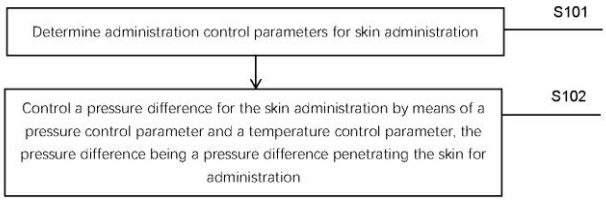
21: 2025/00812. 22: 2025/01/23. 43: 2025/07/31
51: A61M
71: BEIJING SHENZHOU HANFANG PHARMACEUTICAL TECHNOLOGY CO., LTD.
72: WANG, Meilin, CHEN, Gang
33: CN 31: 2022108911799 32: 2022-07-27

**54: ADMINISTRATION CONTROL METHOD AND APPARATUS FOR SKIN ADMINISTRATION**

00: -

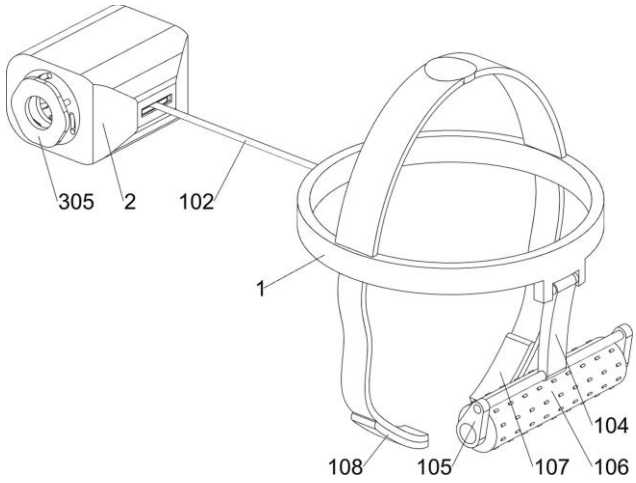
Provided are an administration control method and apparatus for skin administration. The method comprises: S101: determining administration control parameters for skin administration, wherein the control parameters comprise a first control parameter and a second control parameter, one of the first control parameter and the second control parameter is a pressure control parameter, and the other one of the first control parameter and the second control parameter is a temperature control parameter; and S102: controlling a pressure difference for the skin administration by means of the pressure control parameter and the temperature control parameter, the pressure difference being a pressure difference penetrating the skin for administration. The administration apparatus comprises: a pressure assembly and a temperature assembly. The pressure assembly and the temperature assembly control the temperature and the pressure of the skin administration to form the pressure difference for the skin administration. The administration control method and apparatus form the pressure difference for a drug to penetrate the skin non-invasively at a skin administration site by means of setting the pressure and the temperature to cooperate with each other, so that the problem in

the prior art of low administration efficiency during administration is solved and the technical effect of improving the administration efficiency is achieved.



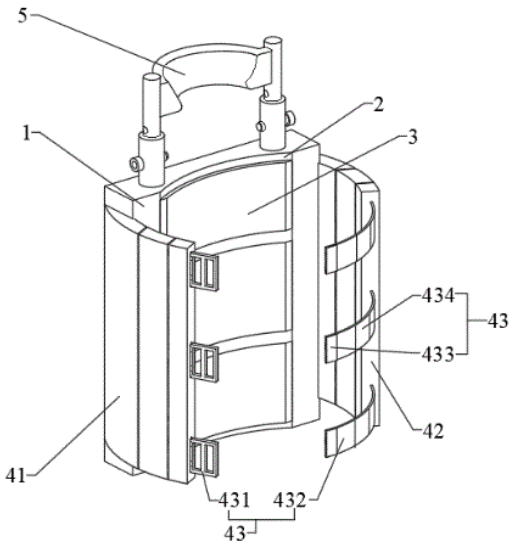

21: 2025/00817. 22: 2025/01/24. 43: 2025/07/31
51: A63B
71: Henan University of Urban Construction
72: Chen Jiang, Che Li, Wei Zhang
**54: A NECK MUSCLE TRAINER**
00: -

The present invention relates to the technical field of fitness equipment, and more specifically, to a neck muscle trainer. It comprises an exercise cap, one side of which is fixedly connected to one end of a pull rope. It also includes a housing, wherein the other end of the pull rope is connected to the housing. Inside the housing, rotating rings are symmetrically and fixedly installed. Each of the two opposing sides of the rotating rings is fixedly connected to a coil spring. A single rotating shaft is rotationally connected inside the two rotating rings, and the outer wall of the rotating shaft is fixedly connected to the two coil springs. The other end of the pull rope is fixedly wound around the outer wall of the rotating shaft. Through the elastic winding force of the coil springs, the neck muscles can be effectively exercised. This eliminates the need for external weights, such as dumbbell plates, to increase exercise intensity, thus achieving the effect of not requiring external weights and improving portability.




21: 2025/00818. 22: 2025/01/24. 43: 2025/07/31
51: A61B
71: Central South University Xiangya School of Medicine Affiliated Haikou Hospital
72: Zhu zhenbiao, Huang shisi, Deng yingsheng, Chen pengcheng
**54: PORTABLE AND SIMPLE SPINAL FIXATION DEVICE**
00: -

The present invention provides a portable and simple spinal fixation device, falling within the technical field of spinal fixation. It includes a back panel, a circular groove is disposed on an inner surface of the back panel, a plurality of sets of spinal support units are arranged in the circular groove of the back panel, fixing units are arranged at two sides of the back panel, and a neck support unit is arranged on an upper surface of the back panel. By adopting the above-mentioned portable and simple spinal fixation device, the present invention provides personalized spinal support, stably fixes on the patient’s body, effectively protects the spine; the neck support unit enhances neck protection; it has a compact and lightweight design, is easy to operate and use, and is suitable for various scenarios such as first aid, transportation, and daily rehabilitation, thus accelerating the rehabilitation process.

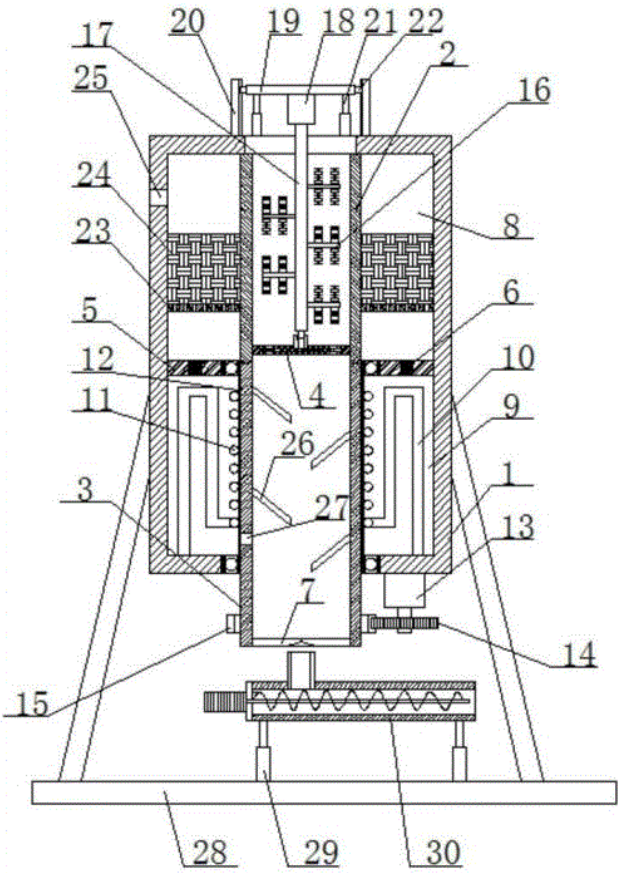



21: 2025/00819. 22: 2025/01/24. 43: 2025/08/07
51: C01B
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: ZHAO Lixia, LIU Yu, FU Haoka, SONG Yanping, JIN Junjie, DONG Shanshan

**54: DEVICE FOR HYDROGEN PRODUCTION BY CO-GASIFYING OF SLUDGE AND BIOMASS**

00: -

The invention relates to a device for hydrogen production by co-gasifying of sludge and biomass, which comprises an outer cylinder, an upper stirring cylinder and a lower gasifying cylinder arranged in the outer cylinder, wherein the bottom of the upper stirring cylinder is provided with a blocking device for communicating or closing the upper stirring cylinder and the lower gasifying cylinder; the upper parts of the outer cylinder and the lower gasifying cylinder divide the inner part of the outer cylinder into a catalytic annular cavity and a cracking annular cavity from top to bottom through a partition plate, and the cracking annular cavity and the catalytic annular cavity are communicated through a pressure valve embedded in the partition plate; a plurality of electric heating rods are arranged in the cracking annular cavity, and the electric heating rods are connected with a heating coil wound outside a heat conducting cylinder arranged outside the lower gasifying cylinder; a catalyst bearing plate is arranged in the catalytic annular cavity, and the catalyst bearing plate is used for carrying out catalytic reaction on the cracked coking gas, so that the cost of hydrogen production is saved, the occupied area of hydrogen production equipment is reduced, the efficiency of hydrogen production is improved, and at the same time, heat is effectively utilized during hydrogen production, and the waste of heat is avoided.



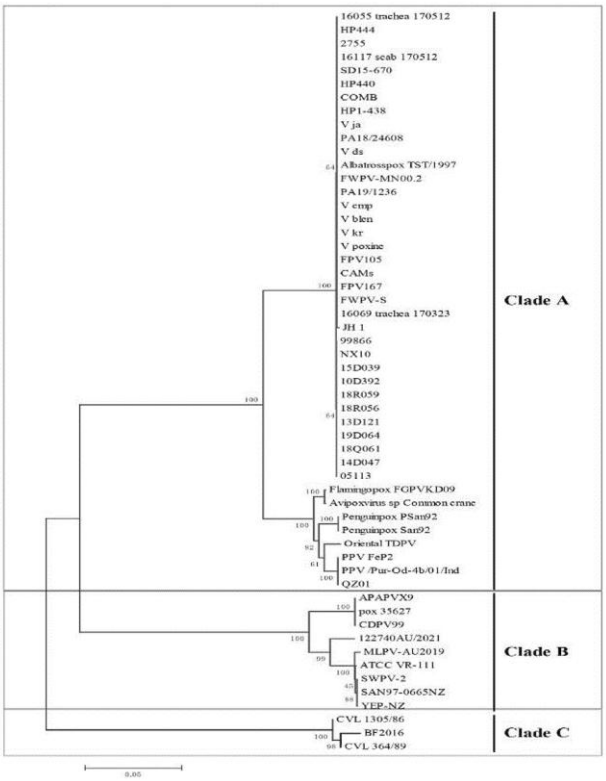

21: 2025/00821. 22: 2025/01/24. 43: 2025/07/31
51: C12Q
71: Zhejiang Academy of Agricultural Sciences
72: Yinchu Zhu, Weicheng Ye, Liu Chen, Zheng Ni, Yuan Fu, Suxin Huo, Jionggang Hua, Tao Yun, Cun Zhang

**54: AN ISOTHERMAL AMPLIFICATION DETECTION METHOD FOR RAPID DETECTION OF FOWLPOX VIRUS BASED ON A FLUORESCENT PROBE**

00: -

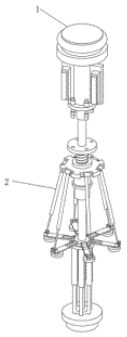
The invention relates to the technical field of virus detection, in particular to an isothermal amplification detection method based on fluorescence probe for rapid detection of fowlpox virus and its application, multiple sequence alignment and phylogenetic analysis of fowlpox virus, design and synthesis of MIRA primer and probe, virus strain and plasmid, and isothermal rapid amplification reaction of MIRA;

The invention provides an isothermal amplification detection method for rapid detection of fowlpox virus based on fluorescent probe and its application, which is very effective for the amplification of a small amount of nucleic acid, and the minimum detection limit is 50 copies /microL. In addition, the MIRA assay has excellent specificity, achieving 100% accuracy when compared to qPCR. More importantly, it does not cross-react with other viruses commonly found in poultry, such as Newcastle disease virus (NDV), avian influenza virus (AIV), infectious bronchitis virus (IBV), avian adenovirus (FAdV-4), etc., ensuring reliable identification of fowlpox virus, preventing the risk of false positive results, and facilitating accurate diagnosis.




21: 2025/00822. 22: 2025/01/24. 43: 2025/07/31
51: G01N
71: No.1 Exploration Institute of Geology Resources of Qinghai Province
72: WANG, Lei, XIE, Hailin, WANG, Bin, LI, Peng, LI, Jian, LI, Peigeng, SONG, Zhongning, GUO, Wei, CHEN, Sulong, ZHANG, Zhengzhi, HAN, Yu, WANG, Chao, LI, Jinlong, LI, Yulian, DUO, Deying
**54: PROSPECTING METHOD FOR GOLD ORE**
00: -

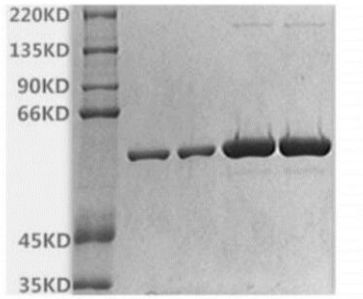
The present invention relates to the technical field of gold ore mining, in particular to a prospecting method for gold ore, including the following steps: S1: performing exploration by a portable detector, and performing an approximate range of detection at the same time; S2: then erecting a fixed-point detector and thereby analyzing a specific range and a depth of the gold ore; S3: performing exploration and excavation, and first performing sampling by means of holes to determine an overall content; and S4: performing excavation by large equipment; wherein the fixed-point detector includes a processing structure and an exploration structure, the processing structure is fixedly connected to the exploration structure, and the support of the processing structure is realized by the exploration structure. The present invention can accurately perform prospecting.




21: 2025/00823. 22: 2025/01/24. 43: 2025/07/31
51: C12N
71: Shanxi Province Academy of Traditional Chinese Medicine, Shanxi Bethune Hospital, Shanxi Academy of Medical Sciences
72: BAI, Chongzhi, LI, Fang, WANG, Ruoyu, YANG, Qian, JI, Haijie, TONG, Liguo, ZHONG, Qiming, WANG, Shu, SONG, Meiqing, LI, Tingyu, GAO, Yan, ZHENG, Chen
**54: ALPACA-DERIVED NANOBODY AND APPLICATION THEREOF**
00: -

The present invention belongs to the technical field of nanobodies, and specifically, provides an alpaca-derived nanobody and application thereof. The alpaca-derived nanobody can strongly bind to the human papillomavirus (HPV) protein to effectively inhibit HPV infections. The nanobody has the advantages of small molecular weight, low immunogenicity, better solubility and stability, and a

longer complementarity-determining region (CDR), and thus provides a potential treatment strategy for HPV infections. The HPV-specific nanobody of the present invention has clinical application value in preventing, treating and/or detecting HPV infections.

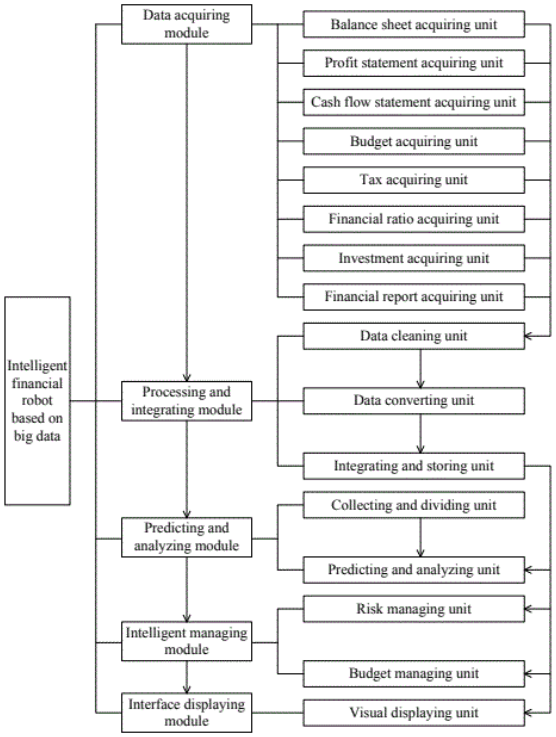



21: 2025/00824. 22: 2025/01/24. 43: 2025/07/31
51: G06Q
71: Jinggangshan University
72: PENG, Wei, ZENG, Qiongfang, LIU, Zhongbing, XIONG, Yuan, WANG, Yan, ZHOU, Shiqin, ZENG, Ruiheng

**54: INTELLIGENT FINANCIAL ROBOT BASED ON BIG DATA**

00: -

The present invention discloses an intelligent financial robot based on big data, including: a data acquiring module, used to acquire real-time financial data based on big data; a processing and integrating module, used to process and integrate the real-time financial data based on big data; a predicting and analyzing module, used to analyze the real-time financial data based on big data, predict financial trends and risks in the future, and determine intelligent financial prediction and analysis results; an intelligent managing module, used to manage financial risks and financial budgets intelligently; and an interface displaying module, used to provide an intuitive and user-friendly visual interface for financial staff. The intelligent financial robot solves the existing problems that financial data cannot be predicted or analyzed effectively. The intelligent financial robot can predict and analyze financial data effectively, identify a financial risk situation effectively, and can improve the effect in use.



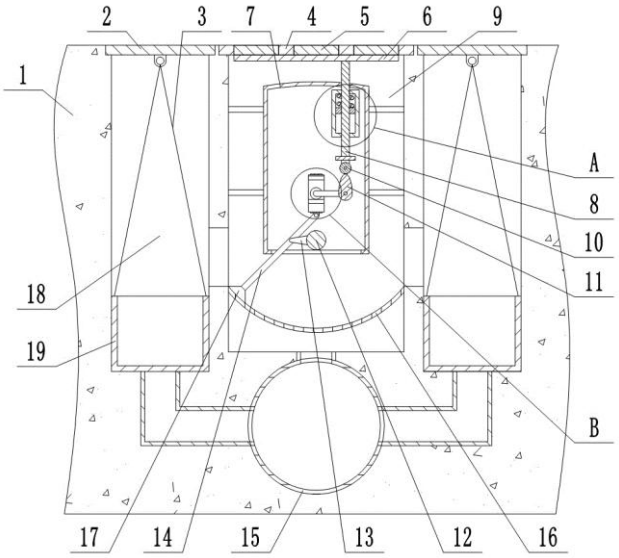

21: 2025/00825. 22: 2025/01/24. 43: 2025/08/11
51: E03F
71: Henan University of Urban Construction
72: LI Hui, YIN Zhenyu, CHEN Weili, LIU Bingqian, LI Mingyu

**54: SYSTEM FOR MUNICIPAL ROAD DRAINAGE**

00: -

The invention disclose a system for municipal road drainage, which includes a road body, where that top end of the road body is provide with a first pit body and a second pit body, the second pit bodies are provided with two pits, the two second pit body are symmetrically arranged on both sides of the first pit body, and the two second pit bodies are all communicated with the first pit bodies, a filtering mechanism is installed in the first pit body, and a drainage mechanism is installed in the second pit body; the main drainage pipeline is buried in the road body, and is located directly below the first pit body, and both the first pit body and the second pit body are communicated with the main drainage pipeline; the cleaning mechanism includes a housing, an upper cleaning part and a lower cleaning part, where the housing is fixedly connected in the first pit; the upper cleaning part and the lower cleaning part are both installed in the housing ; the top of the upper cleaning part and the bottom of the lower cleaning part both extend out of

the housing ; the upper cleaning part and the lower cleaning part are used for cleaning the filtering mechanism; a transmission part is also installed in the housing ; and the upper cleaning part and the lower cleaning part are in transmission connection through the transmission part. The invention can effectively prevent the drainage system from blocking.




21: 2025/00827. 22: 2025/01/24. 43: 2025/08/11
51: G01N
71: JIANGXI AGRICULTURAL UNIVERSITY
72: HU Guoliang, ZHUANG Yu, CHENG Xinyi, XING Chenghong, GUO Xiaoquan, CAO Huabin, LIU Ping

**54: MONOCLONAL ANTIBODY AGAINST CHICKEN TIPE1 GENE AND PREPARATION METHOD AND APPLICATION THEREOF**

00: -

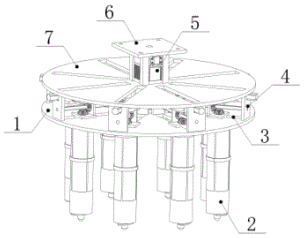
The invention relates to a monoclonal antibody against chicken TIPE1 gene and preparation method and application thereof, and belongs to the technical field of monoclonal antibody preparation. According to the invention, the full-length nucleotide sequence of the chicken TIPE1 gene is used for PCR amplification, then the amplified fragment is integrated into a plasmid vector pIRES2-EGFP to obtain a recombinant plasmid pIRES2-EGFP-IBV-TIPE1, finally, the recombinant plasmid is transfected into CHO cells for expression and purified by affinity chromatography technology to obtain the purified TIPE1 protein, and then an antibody is obtained by using hybridoma monoclonal antibody technology. The design method of that invention is simple and convenient to operate, and the cost is low; and the prepare soluble protein greatly shortens the follow-up purification time, and has good immune effect and high antibody titer. The invention fills in the blank of preparation and research of TIPE1 monoclonal antibody, provides a new idea for the research of metabolic diseases of livestock and poultry such as fatty liver hemorrhage syndrome of laying hens, and has wide popularization significance.

21: 2025/00828. 22: 2025/01/24. 43: 2025/07/31
51: G01N
71: No.1 Exploration Institute of Geology Resources of Qinghai Province
72: CHEN, Sulong, WANG, Lei, XIE, Hailin, WANG, Bin, ZHANG, Zhengzhi, LI, Jian, LI, Peigeng, LI, Peng, LIU, Xiufeng, LI, Yulian, DUO, Deying, GUO, Wei, SONG, Zhongning, WANG, Chao, ZHAO, Zongxiao

**54: PROSPECTING METHOD FOR COBALT AND NICKEL**

00: -

The present invention relates to a prospecting method for cobalt and nickel, including: S1: collecting comprehensive research data of a pre-survey area and adjacent areas, analyzing metallogenic rules and metallogenic geological conditions of the cobalt and nickel ore, and making a prospecting plan; S2: carrying out bathymetric and geophysical exploration in key working areas, finding out distribution of the cobalt and nickel ore, and arranging drilling points; and S3: drilling target ore by sampling equipment, and performing sampling, detection and analysis. Within the covered sampling area, the sampling devices can be adjusted at any intervals through the transmission devices, effectively improving the convenience and adaptability of the equipment to sample different sampling points; moreover, the sampling tubes inside the sampling devices are of detachable design, so that multiple groups of sampling points can be rapidly sampled in the area, effectively improving the sampling efficiency and practicability of the equipment.




21: 2025/00837. 22: 2025/01/24. 43: 2025/07/31
51: H04L
71: Dirk Jacobus ACKERMAN
72: Dirk Jacobus ACKERMAN
33: ZA 31: 2023/04664 32: 2023-10-24

**54: AN ELECTRONIC CONTAINER, SYSTEM AND METHOD FOR SHARING INFORMATION OVER AN INSECURE CHANNEL**

00: -

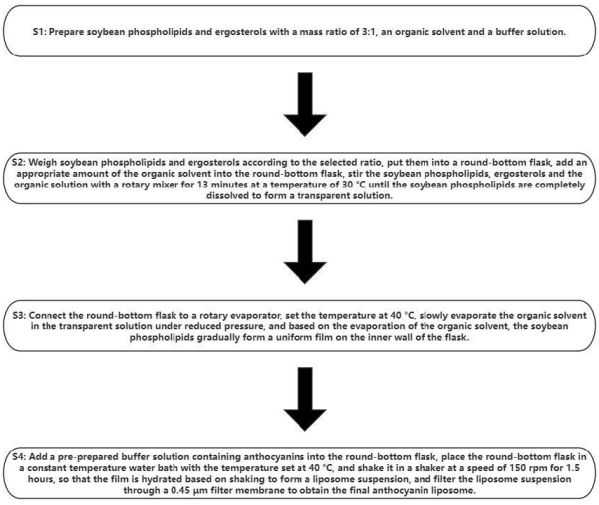
The invention provides an electronic container for securely sharing information over insecure communication channels, such as email, which are vulnerable to interception and tampering. The container features a defined information entry structure, labelled information entries, and an electronic signature generated using specific entries. It includes a content section for pri-mary data, a fingerprint section for integrity verification, and a signature section containing details of the cryptographic signature. Optional features include metadata and compression for efficient transmission. A system facilitates container creation, signature generation, and validation, ensuring data authenticity and integrity. The method involves receiving infor-mation, organizing it into the container, generating an electronic signature, and providing a validation tool for secure transmission. This invention addresses critical security challenges, such as email fraud, by ensuring sensitive data remains unaltered and authenticated during transit, making it suitable for applications like sharing banking details, legal documents, or other sensitive information.

21: 2025/00838. 22: 2025/01/24. 43: 2025/07/31
51: A45D; A61K
71: HANSHAN NORMAL UNIVERSITY, CHAOZHOU WARTKANG MEDICAL TECHNOLOGY CO., LTD
72: HUANG, Yongping, NIE, Ying, HUANG, Yisheng, ZOU, Xianghui, YUAN, Jingxin, CAI, Lingyu, LIU, Yaqun, ZHENG, Yuzhong

**54: A PREPARATION METHOD OF ANTHOCYANIN LIPOSOME AND ITS APPLICATION IN COSMETICS**

00: -

The invention discloses a preparation method of anthocyanin liposome and its application in cosmetics, belonging to the field of anthocyanin liposome. The method comprises the following steps: preparing soybean phospholipids and ergosterols with a mass ratio of 3:1, an organic solvent and a buffer solution; weighing soybean phospholipids and ergosterols according to the selected ratio, putting them into a round-bottom flask, adding an appropriate amount of the organic solvent into the round-bottom flask, and stirring the soybean phospholipids, ergosterols and the organic solution with a rotary mixer at a temperature of 30 °C for 13 minutes until the soybean phospholipids are completely dissolved to form a transparent solution; through the cooperative use of the above devices, ergosterol is added into the anthocyanin liposome instead of cholesterol, so that the anthocyanin liposome has its own medicinal properties, and through the bilayer membrane formed by ergosterol and soybean phospholipids, the anthocyanin liposome still maintains the encapsulation rate, release rate and stability that can be achieved by adding cholesterol.



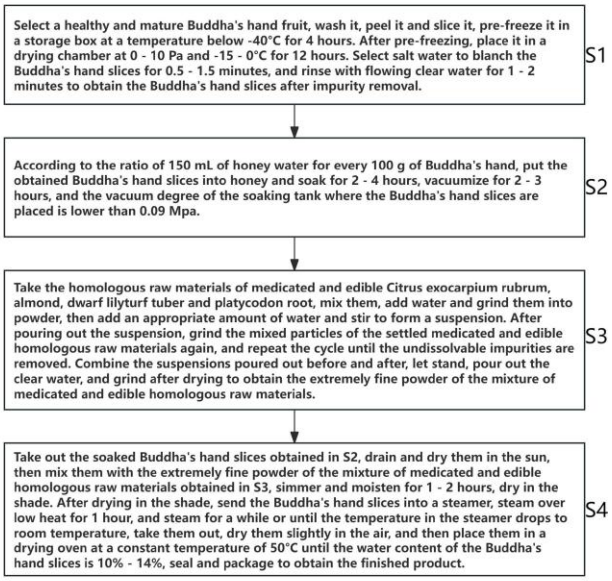

21: 2025/00839. 22: 2025/01/24. 43: 2025/07/31
51: A61K; A61P
71: HANSHAN NORMAL UNIVERSITY, JIAZHONG PHARMACEUTICALS HEALTH TECHNOLOGY (GUANGDONG) CO., LTD

72: ZHANG, Zhenxia, LIU, Yaqun, ZHENG, Yuzhong, HUANG, Yongping, FANG, Chaodan, YANG, Peikui, SUN, Yanjie

**54: A PREPARATION METHOD OF BUDDHA'S HAND WITH COUGH-RELIEVING AND ASTHMA-RELIEVING FUNCTIONS AND ITS APPLICATION**

00: -

The invention discloses a preparation method for Buddha’s hand with cough-relieving and asthma-relieving functions and its application. The invention relates to the technical field of Buddha's hand preparation. The preparation method for Buddha's hand with cough-relieving and asthma-relieving functions includes the following steps: selecting a healthy and mature Buddha's hand fruit, placing it in a drying chamber after pre-freezing, blanching the Buddha's hand slices in water, soaking the obtained Buddha's hand slices in honey, taking the homologous raw materials of medicated and edible citrus exocarpium rubrum, almond, dwarf lilyturf tuber and platycodon root, mixing them, drying and grinding them, taking out the soaked Buddha's hand slices, drying them in the sun, mixing them with the extremely fine powder of the homologous mixture of medicated and edible materials, drying them in a constant temperature drying oven, sealing and packaging them to obtain a finished product. In the invention, through the addition of medicated and edible citrus exocarpium rubrum, almond, dwarf lilyturf tuber and platycodon root, impurities and toxicity are removed to a large extent by using the levigation method, and the powder is ground to avoid changing the taste of the obtained Buddha's hand product. Moreover, medicated and edible citrus exocarpium rubrum, almond, dwarf lilyturf tuber and platycodon root also have the effects of relieving cough and asthma and dispersing lung qi and descending qi, which complement the pharmacological effects of the main material Buddha's hand and achieve a small compound effect with Buddha's hand.




21: 2025/00840. 22: 2025/01/24. 43: 2025/07/31

51: G06Q

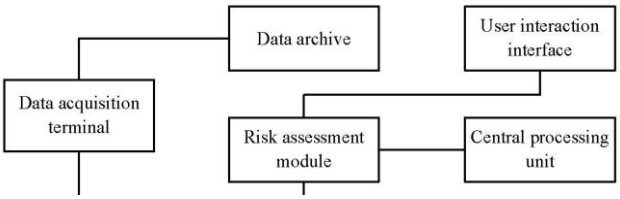
71: NINGBO UNIVERSITY OF FINANCE AND ECONOMICS

72: JIN, Pengwei

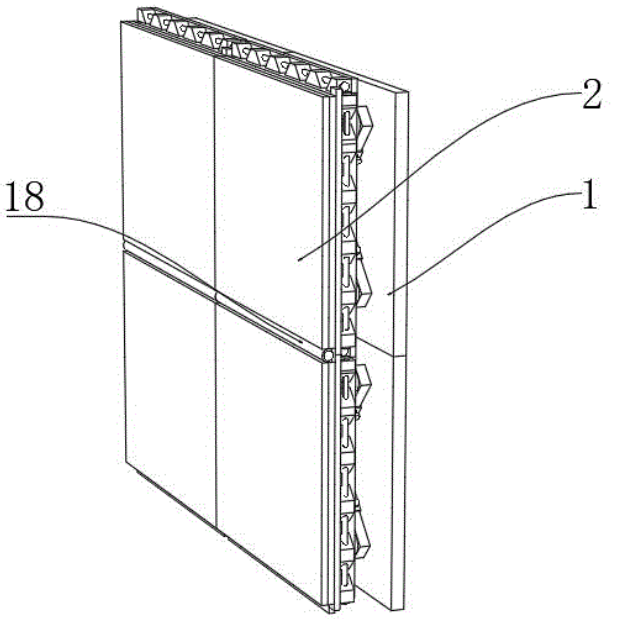
**54: RISK MANAGEMENT AND ASSESSMENT SYSTEM FOR DIGITAL ECONOMY**

00: -

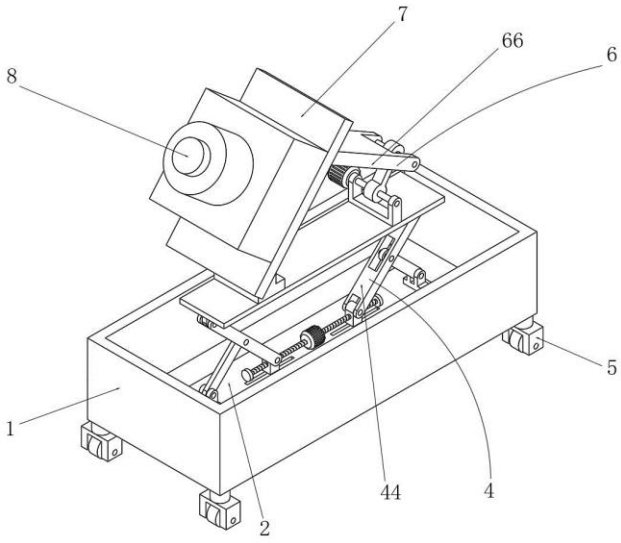
Disclosed in the present invention is a risk management and assessment system for digital economy, which belongs to the risk management field of the digital economy. The system includes a data acquisition terminal, a central processing unit, a data archive, a risk assessment module and a user interaction interface, where the data acquisition terminal acquires data related to digital economy participants and sends the data to the data archive and the risk assessment module on time, the risk assessment module performs compliance inspection and risk assessment on the data related to the digital economy participants and displays results on the user interaction interface, and the central processing unit responds based on the results of the risk assessment module. The present invention can effectively overcome the defects of traditional risk management, and provide a solid guarantee for healthy development of the digital economy.



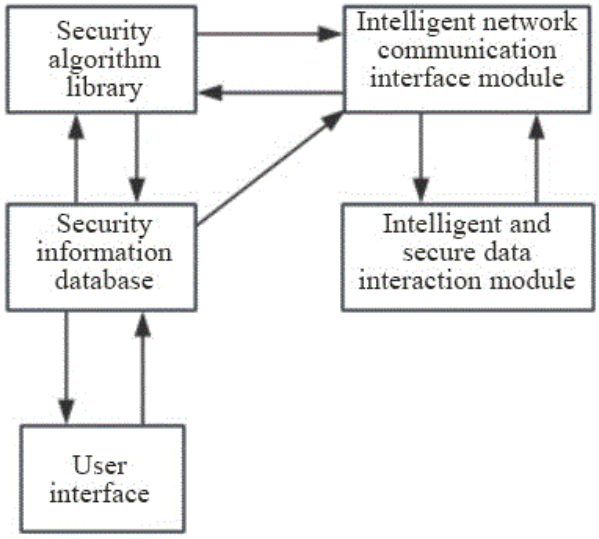

21: 2025/00841. 22: 2025/01/24. 43: 2025/07/31
51: E04F
71: Xinyu University
72: Zeng Wenlin, Fan Dongjiao, Xu Li, Ma Caiwei, Zhang Yuqing
**54: ASSEMBLE INDOOR WALL FINISHING PANEL**
00: -
The invention discloses an assembled indoor wall decoration panel, which comprises an inner wall body and a decoration panel, wherein the front end of the indoor wall body is rotatably connected with a rotating shaft, the outer ring of the rotating shaft is rotatably connected with a rotating rod, one side of the rotating rod is in threaded connection with a first bolt, and the first bolt at one side is in contact with the rotating shaft. In the invention, the bidirectional threaded rod is rotated to adjust the height of the sliding plate, then the screw rod is rotated, and then the first fixing block and the second fixing block are fixed by bolts through the rotation of the fixing ring, so that the position of the supporting point of the cavity to the decoration panel can be adjusted.



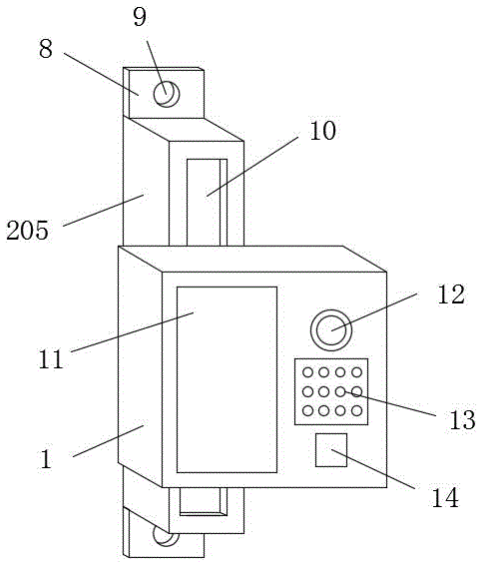

21: 2025/00842. 22: 2025/01/24. 43: 2025/07/31
51: G06T
71: Xinyu University
72: Liao Zhongming, Xi Jun, Xu Zhaosheng, Xu Xiuhong, Azlan Ismail
**54: MULTI-MOVING-TARGET CAPTURE AND TRACKING DEVICE**
00: -
The present invention provides a multi-moving-target capture and tracking device, falling within the technical field of optical equipment. The lifting and tilting mechanism includes two fixing seats and a first motor fixedly connected to a top of a bottom plate, inner walls of the two fixing seats are rotatably connected to connecting strips, the two connecting strips are rotatably connected to transmission arms, inner walls of the two transmission arms are rotatably connected to connecting seats and transmission blocks, a support plate is fixedly connected between tops of the two connecting seats. In the present invention, by arranging the lifting and tilting mechanism, the tracking device may freely move up and down in the vertical direction, which expands the working space. Meanwhile, with the adjustment function within a certain range of angle tilting, it may avoid the dead angles of the mechanical system and ensure that the device may capture a wider range of targets and cover a larger area.




21: 2025/00843. 22: 2025/01/24. 43: 2025/07/31
51: H04L
71: Xinyu University
72: Li Shiwen, Liu Jinhua, Liu Mingqi, Liu Xueping, Luo Haiyong, Liu Zeqi
**54: DATA INTERACTION NETWORK SECURITY SYSTEM BASED ON ARTIFICIAL INTELLIGENCE**
00: -
The present invention discloses a data interaction network security system based on artificial intelligence, comprising: a security algorithm library comprising security processing algorithms for secure operations of data; Security information database: stores security information used for identity verification and permission control; User interface: provides a secure service operation interface and a secure information management interface, allowing users to configure, control, and manage the secure transmission of data information through the user interface; Intelligent network communication interface module: implement secure connections based on security protocols, use deep learning technology to monitor and analyze network traffic in real-time, identify and block malicious attacks and illegal data access; Intelligent and secure data interaction module: combining block chain to achieve cross network and cross security domain data interaction functions.

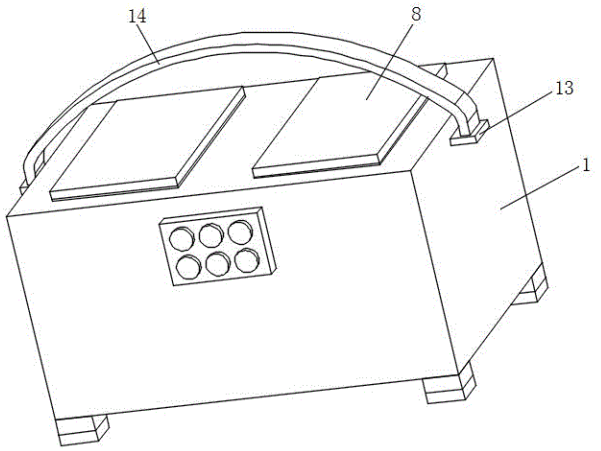



21: 2025/00844. 22: 2025/01/24. 43: 2025/07/31
51: G06K
71: Xinyu University
72: Liu Xueping, Liu Mingqi, Liu Jinhua, Li Shiwen, Liu Zeqi, Luo Haiyong
**54: PERSONNEL IDENTIFICATION DEVICE FOR HIGHER EDUCATION MANAGEMENT**
00: -
The present invention relates to the field of higher education technology and discloses a personnel identification device for higher education management, comprising an identifier and an adjustment component, the adjustment component comprises an adjustment box, the bottom of the inner cavity of the adjustment box is fixedly connected to a motor, the output shaft of the motor is fixedly connected to a threaded rod, the surface of the threaded rod is fixedly connected to a threaded sleeve, the surface of the threaded sleeve is fixedly connected to a connecting block, the present invention can adjust the height of the recognizer up and down according to the height of the user by setting an adjustment component, so that it can meet the needs of students of different heights and improve the convenience of use. Through the setting of the installation component, it is easy to disassemble and replace the recognizer, and it is convenient to maintain and replace it. The combination of the card block, movable rod, spring, card slot and pull ring can facilitate the disassembly and assembly of the fixed block from the concave frame, thus facilitating the maintenance of the recognizer.




21: 2025/00845. 22: 2025/01/24. 43: 2025/07/31
51: B65D
71: Nantong Tumor Hospital
72: Liu Jibin
**54: STORAGE DEVICE FOR SPECIMEN COLLECTION**
00: -

The present invention discloses a storage device for specimen collection, which relates to the field of specimen storage technology and improves the problem of inconvenient refrigeration of specimens during storage, comprising a specimen storage box, the inner cavity of the specimen storage box is provided with a lifting mechanism, both sides of the lifting mechanism are fixedly connected to a bearing plate, both sides of the top of the bearing plate are fixedly connected to a support plate, the top of the support plate is fixedly installed with a storage box, and the inner cavity of the specimen storage box is provided with a refrigeration mechanism. The present invention facilitates the storage of collected tumor specimens by setting up a specimen storage box and a storage box. By setting up a refrigeration box, refrigeration machine, blower, exhaust pipe, and air outlet pipe, cold air can be blown into the interior of the specimen storage box to cool it down, thereby reducing the temperature inside the specimen storage box, improving the storage effect of tumor specimens, avoiding sample damage and having good use effect.

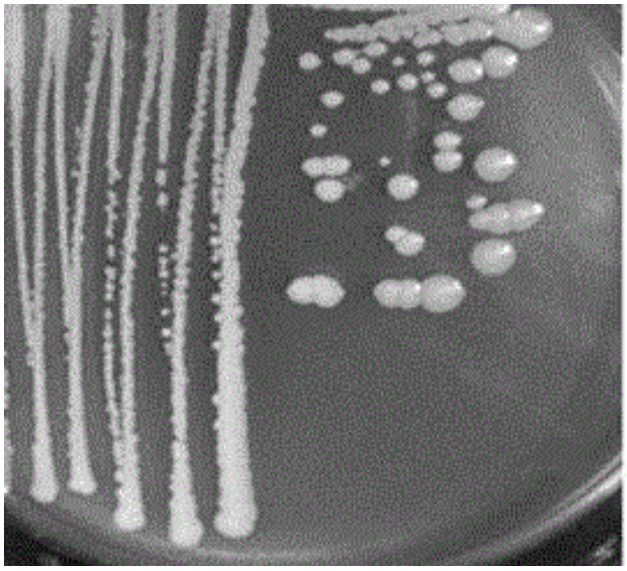



21: 2025/00846. 22: 2025/01/24. 43: 2025/07/31
51: C04B
71: Tian Shizhong
72: Tian Shizhong
**54: FUSED REFRACTORY MATERIAL FOR IRON AND STEEL SMELTING, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF**
00: -

The present invention provides a fused refractory material for iron and steel smelting and a preparation method. The raw materials are included in parts by weight: 60-90 parts of magnesium oxide, 3-30 parts of alumina, 1-30 parts of zirconia, 0.2-2 parts of calcium oxide and 0.2-2 parts of silicon oxide. According to the present invention, the fused refractory material may meet increasingly stringent requirements of iron and steel development, the service life of refractory products prepared by the fused refractory material of the present invention is more than ten times that of current products of magnesia-carbon brick, improving the service life, and the consumption of the fused refractory material per ton of steel is reduced by 80-90% compared with traditional materials, saving refractory materials.

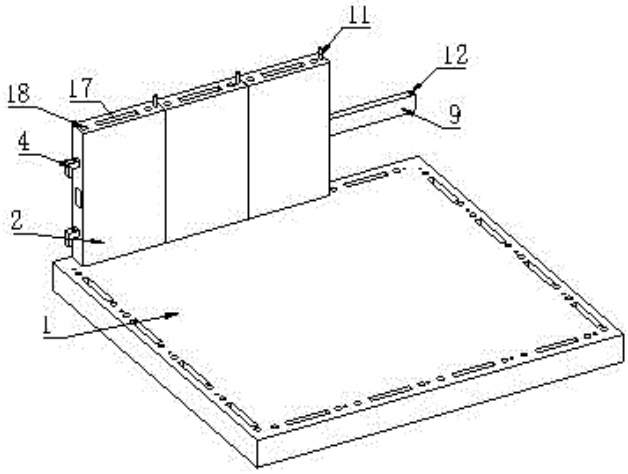
21: 2025/00847. 22: 2025/01/24. 43: 2025/07/31
51: C12N
71: Shandong Academy of Grape
72: YIN Xiangtian, YUAN Lifang, WEI Yanfeng, JIANG Xilong, WANG Chundong, LI Tinggang, LIU Qibao, HAN Xing
**54: BACILLUS VELEZENSIS AND APPLICATION THEREOF IN GRAPE BIOLOGICAL CONTROL AND BACTERIAL FERTILIZER**
00: -

The present invention provides Bacillus velezensis and application thereof in grape biological control and bacterial fertilizer. The strain, classified and named as Bacillus velezensis, is deposited at the General Microbiological Center of the China General Microbiological Culture Collection Management Committee on March 20, 2024, with a deposition number of CGMCC No.11974. The Bacillus velezensis of the present invention can improve salt-alkali tolerance of grapes, and has the function of biological control against grape white rot, downy mildew and the like.



21: 2025/00848. 22: 2025/01/24. 43: 2025/07/31
51: E04B
71: Xinyu University
72: Xu Li, Ma Caiwei, Zeng Wenlin, Fan Dongjiao, Zhang Yuqing
**54: MODULAR BUILDING AND INTEGRATED METHOD OF PREFABRICATED DECORATION**
00: -

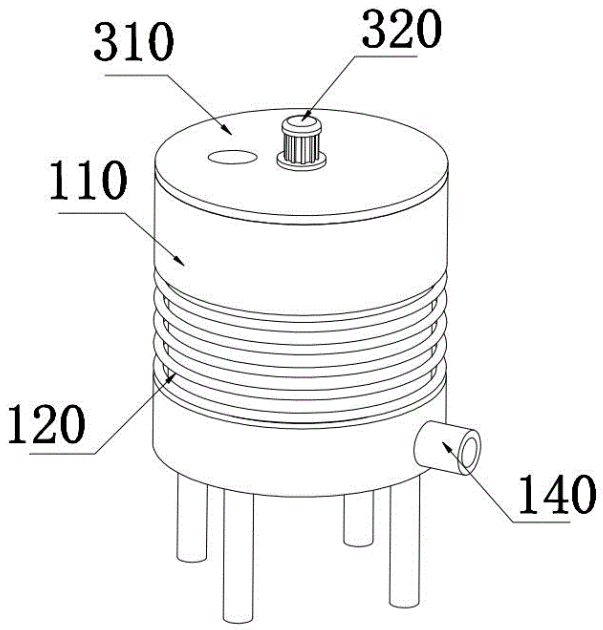
The present invention provides a modular building and an integrated method of prefabricated decoration, falling within the technical field of prefabricated buildings. A modular building includes a plate body. A plurality of wall bodies are arranged on the plate body in an array distribution, fixing blocks are fixed at lower ends of the wall bodies, and connecting mechanisms are arranged between the wall bodies and the plate body. In the installation process, abutting blocks move. The movement of the abutting blocks drives springs to stretch and contract, making fixing posts slide in the wall bodies to limit the abutting blocks. After limiting frames abut against the wall bodies, the wall bodies are made to move downward, driving L-shaped limiting frames to enter limiting grooves. Meanwhile, the elasticity of the springs makes the abutting blocks move and reset to come into contact with the limiting frames, which is convenient for limiting the limiting frames. Through the connecting mechanisms, it is convenient to improve the construction efficiency of the factory building, facilitate the operation of staff, and be conducive to the modular installation of the factory building.




21: 2025/00849. 22: 2025/01/24. 43: 2025/07/31
51: B01D
71: Suzhou University
72: Wang Jing
**54: NATURAL MEDICINE EXTRACT SEPARATION AND EXTRACTION DEVICE**
00: -

The present invention belongs to the field of drug preparation technology, specifically a natural medicine extract separation and extraction device, comprising: a decoction mechanism, a support filter screen, and a top cover mechanism. The decoction mechanism comprises a decoction tank, a heating element, and a card slot. The outer wall of the decoction tank is provided with a heating element, and the inner cavity of the decoction tank is provided with a card groove; The support filter screen is set on the card slot, and the support filter screen comprises a filter cartridge, a support disk, and an inner gear ring. A support disk is set on the outer side of the top of the filter cartridge, and an inner gear ring is set on the top of the support disk; The top cover mechanism is set at the top of the

decoction tank, and the medicinal herbs are placed in the filter cartridge for decoction. After decoction, the medicinal residues are left in the filter cartridge for easy cleaning. During decoction, the driving shaft of the motor drives the crushing blade to rotate, and at the same time, the driving shaft drives the filter cartridge to rotate in the opposite direction through gears, effectively crushing and stirring the medicinal herbs and improving the decoction effect.

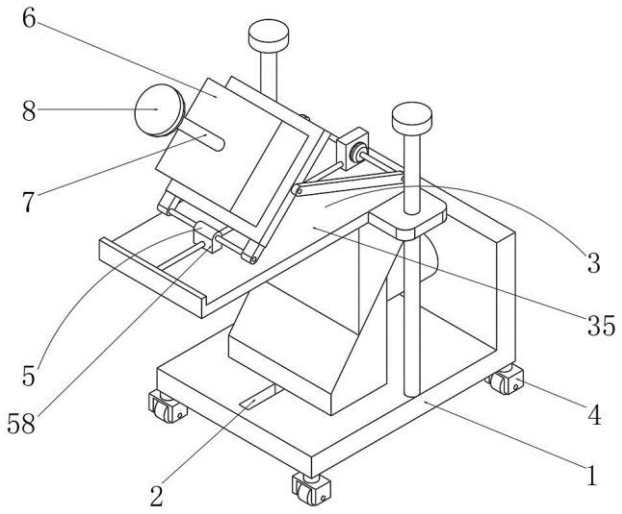



21: 2025/00850. 22: 2025/01/24. 43: 2025/07/31
51: E04F
71: Xinyu University
72: Ma Caiwei, Zeng Wenlin, Fan Dongjiao, Xu Li, Zhang Yuqing

**54: ASSEMBLE TYPE WALLBOARD SUPPORTING DEVICE FOR WALL DECORATION**

00: -

The invention discloses a wallboard supporting device for assembled wall decoration, and relates to the technical field of assembled walls.the height adjusting mechanism comprises two limiting columns fixedly connected to the top of a fixed seat and a hydraulic lifting column fixedly connected to the front surface of the fixed seat, The support plate is fixedly connected between the opposite sides of the two sleeve plates, the bottom of the support plate is fixedly connected with the fixed inclined platform, and the output end of the hydraulic lifting column is fixedly connected with the transmission inclined platform. Accurately match the wall panel height, reducing the risk of material waste and damage.



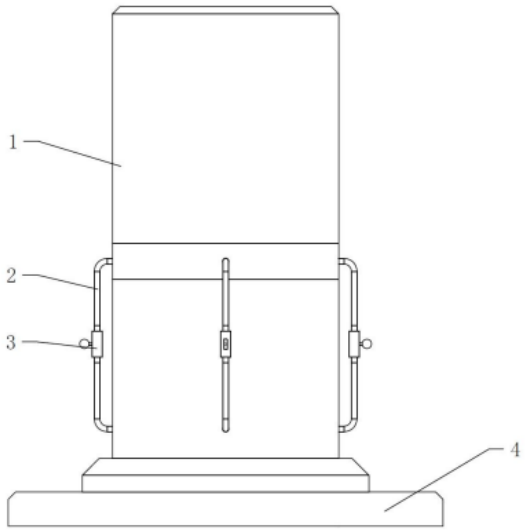

21: 2025/00877. 22: 2025/01/24. 43: 2025/08/05
51: F16L
71: Fuzhou University
72: Zhang Ting, Zhang Siqian, Yang Dingying, Zhan Changxun, Xu Pu
33: CN 31: 2023117507436 32: 2023-12-19

**54: ELIMINATION DEVICE FOR WATER HAMMER EFFECT OF ENERGY-CONSUMING SUBMARINE FLOW CONVEYING PIPELINE**

00: -

The present invention discloses an elimination device for water hammer effect of an energy-consuming submarine flow conveying pipeline in the field of water hammer elimination devices, the device includes a fixing flange and a housing fixedly connected to the fixing flange. A first partition plate and a second partition plate are slidably connected to inner walls of the 5 housing, a reset assembly for resetting the first partition plate and the second partition plate after sliding is arranged in the housing; the first partition plate and the second partition plate divide an interior of the housing into a water storage chamber, an air storage chamber and a buffer chamber, the water storage chamber, the air storage chamber and the buffer chamber are successively arranged adjacent to each other, and the buffer chamber is located at one end close to the fixing 10 flange; and a water inlet plate is fixedly connected to a bottom of the buffer chamber, an adjusting plate is fixedly connected to inner side walls of the buffer chamber, a pressure relief pipe is in communication between the air storage chamber

and a driving chamber, and a bidirectional pressure relief valve is arranged at the pressure relief pipe. According to the device of the present invention, the water hammer effect can be eliminated linearly and stably, and the 15 entire water hammer elimination is more stable, while the entire elimination process causes little loss to the device, and the service life of the elimination device can be prolonged.

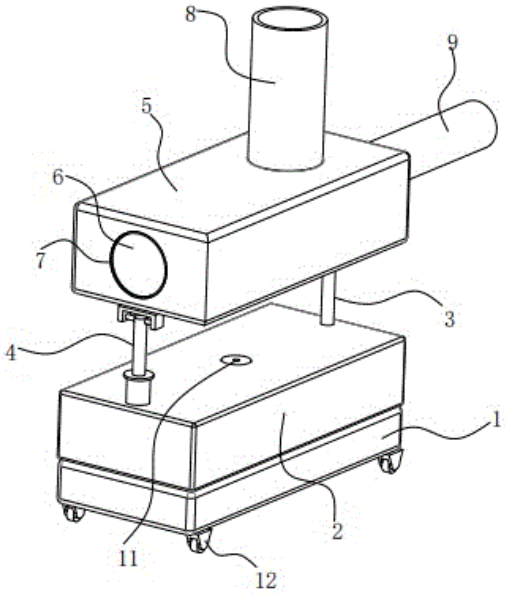



21: 2025/00886. 22: 2025/01/27. 43: 2025/08/05
51: G07C
71: Shandong University of Finance and Economics
72: Xiaoping YUAN

**54: BASKETBALL PASSING TRAINER**

00: -

The present invention provides a basketball passing trainer, including: a base; a servo motor, fixedly mounted in the middle of a bottom of the base, where a top end of an output shaft of the servo motor is fixedly connected to a rotating rod, and an outer surface of the rotating rod is fixedly mounted with a mounting platform; and a lifting apparatus, fixedly mounted on a side of a top of the mounting platform. The present invention provides a basketball passing trainer, where an output shaft of a hydraulic cylinder moves up and down to pull a storage box to rotate through a support apparatus, so as to adjust a passing angle of the storage box. A cylinder pusher sends out a basketball from a launch hole in the storage box, and the storage box is enabled to simulate bounce passes, high passes, and parallel passes during passing. This apparatus has a simple structure and strong practicality, such that the basketball passing trainer can simulate various passing methods of players on the court, helping trained personnel to conduct catching practice through various passing methods, thus improving the practicality and flexibility of this apparatus.



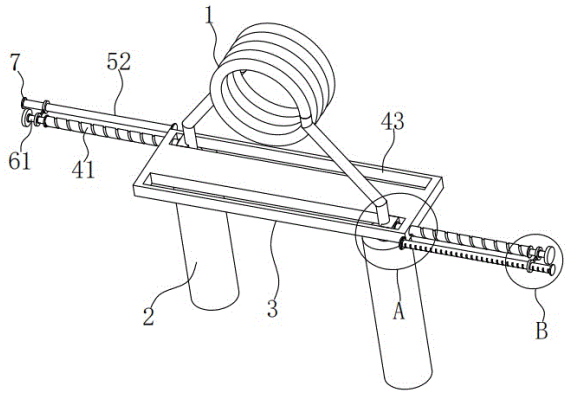

21: 2025/00887. 22: 2025/01/27. 43: 2025/08/05
51: F21V
71: Shandong University of Finance and Economics
72: Xiaoping YUAN

**54: ADJUSTABLE HAND GRIP EXERCISER**

00: -

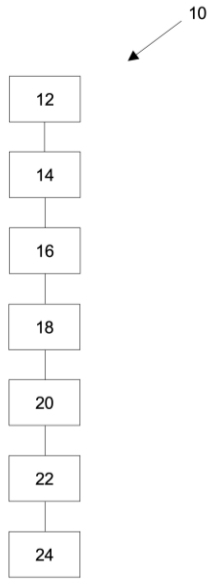
The present invention provides an adjustable hand grip exerciser, including: a spring body, where two ends of the spring body are each connected to a handle; a limit plate disposed between the two ends of the spring body; two adjustment assemblies offset at two ends of the limit plate, where the adjustment assembly includes a threaded rod, an adjustment block, and an adjustment slot, the threaded rod is disposed at an end of the limit plate, the adjustment block is rotatably connected in the limit plate via a rotating shaft, the adjustment slot is provided in a surface of the limit plate, and the adjustment block is slidably connected in the adjustment slot; two display assemblies offset on two sides of the limit plate; and two rotation assemblies respectively disposed at ends of the two threaded rods. The present invention provides the adjustable hand grip exerciser, where the limit plate, threaded rods, adjustment blocks, and adjustment slots are

arranged on the spring body with the two handles, to cooperate with the display assemblies and the rotation assemblies for use, such that a tension of the spring body can be adjusted based on usage situations, allowing users to exercise under different tension levels.



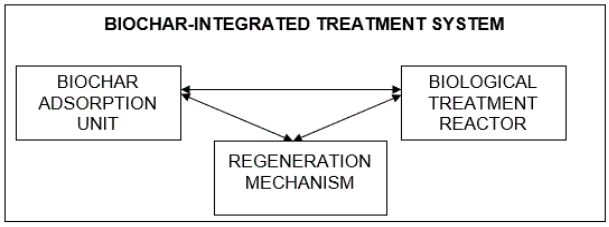

21: 2025/00890. 22: 2025/01/27. 43: 2025/08/05
51: A22C
71: VAN JAARSVELD, Arthur
72: VAN JAARSVELD, Arthur
33: ZA 31: 2023/10808 32: 2023-11-23
**54: MEAT STERILIZATION**
00: -

This invention relates to meat sterilization and includes a method of preserving meat by sealing it in heat-resistant, multi-layered, or microwavable retort pouches and sterilizing it using heat and pressure for a duration meeting or exceeding its F0 value. The meat, which can be diced, minced, cubed, or bone-in, may include various types such as beef, poultry, pork, venison, lamb, or fish. Before sealing, the meat is weighed and mixed with liquids, spices, or plant-based ingredients per a recipe, with additional fluids added to meet packaging standards. Sterilization methods, such as immersion in fluid or steam, ensure the meat is both sterilized and cooked. Heat application is determined by the meat's acidity, ranging from 121°C to 145°C for 8-12 minutes for raw meat with an acidity level of lower than 7. The method produces a shelf-stable, pre-cooked meat product, ready for consumer use, with extended preservation and convenience.




21: 2025/00891. 22: 2025/01/27. 43: 2025/08/05
51: C05F
71: Dr. Yogesh Pralhadrao Patil
72: Dr. Yogesh Pralhadrao Patil
**54: BIOCHAR-INTEGRATED TREATMENT SYSTEM FOR ENHANCED REMOVAL OF MICROPOLLUTANTS**
00: -

The present invention discloses a biochar-integrated treatment system that combines biochar adsorption with conventional biological treatment processes for the enhanced removal of heavy metals, pharmaceuticals, and other micropollutants from wastewater. The system comprises a biochar adsorption unit, a biological treatment reactor, and a regeneration mechanism for sustainable operation. This invention offers a cost-effective, eco-friendly, and scalable solution to address persistent wastewater pollutants and improve effluent quality.



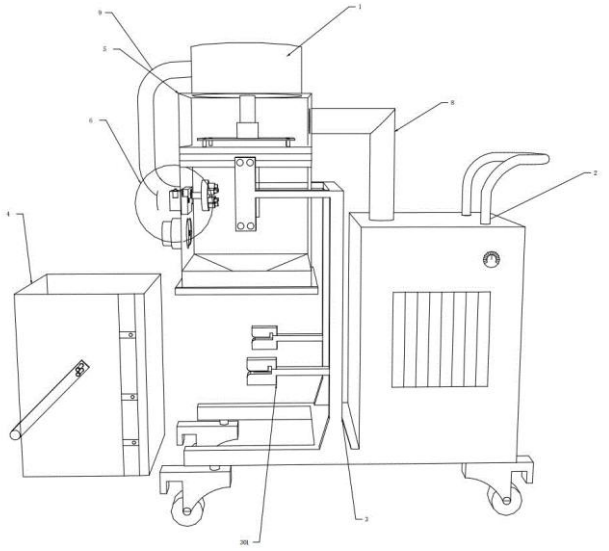

21: 2025/00893. 22: 2025/01/27. 43: 2025/08/05
51: B01D
71: Shanxi Xing County Huarun Liansheng Chejia Village Coal Industry Co., Ltd, Middling Coal Group Shanxi Co., Ltd

72: WANG Shouguo, LIU Shaoze, AN Junpeng, LI Yingming, TAO Qiangsheng

**54: ALTERNATING POSITIVE AND NEGATIVE PRESSURE TYPE SELF-CLEANING INTEGRATED DUST REMOVAL DEVICE FOR MINING AND USE METHOD THEREOF**

00: -

The present invention provides an alternating positive and negative pressure type self-cleaning integrated dust removal device for mining and a use method thereof, the device includes a water storage tank 1, a working tank 2, a base 3, a detachable dust collection barrel 4, a wet type dust removal barrel 5, a negative pressure communication pipe 8, a water guide pipe 9, and a dust collection barrel latch structure 402. The working tank 2 is fixed to an upper surface of a right part of the base 3, and the detachable dust collection barrel 4 is connected to an upper surface of the base 3 via a base latch structure 301; the wet type dust removal barrel 5 is fixed above the detachable dust collecting barrel 4, and the water storage tank 1 is fixed above the wet type dust removal barrel 5; and the water storage tank 1 is connected to the wet type dust removal barrel 5 via a water guide pipe 9, and the wet type dust removal barrel 5 is connected to the working tank 2 via a negative pressure communication pipe 8. According to the present invention, dust with different particle sizes can be collected and adsorbed, and the problems that the dust generated in coal mine operation is difficult to be collected and the efficiency of the machine decreases due to long-term use of the dust remover can be solved; and the dust remover can move under complex road conditions, effectively remove dust, has a simple structure and is convenient to popularize and use.



21: 2025/00894. 22: 2025/01/27. 43: 2025/08/05

51: G06N

71: BEIJING SOCIETY OF SURVEYING AND MAPPING, BEIJING INSTITUTE OF SURVEYING AND MAPPING DESIGN, BEIJING ZHONGTIAN ROAD INTELLIGENT CONTROL TECHNOLOGY CO., LTD., BEIJING TONGCHUANG TIANCHENG ENGINEERING SURVEY CO., LTD., MUCHENG SURVEYING AND MAPPING (BEIJING) CO., LTD.

72: YANG, Bogang, WANG, Miao, YANG, Gang, LI, Chengpeng, GUO, Xiyin, CAO, Yuao, LIU, Qingli, ZHANG, Guichun

**54: DEEP LEARNING-BASED METHOD FOR DETECTING SKYLINE**

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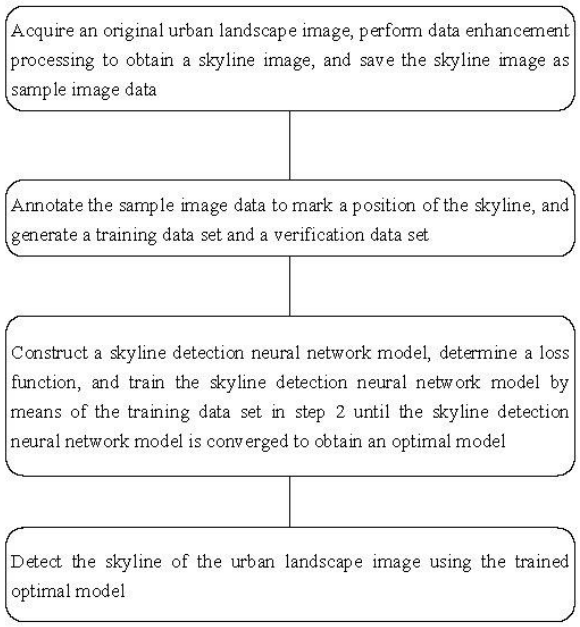
Disclosed is a deep learning-based method for detecting a skyline, which relates to the technical field of skyline detection. The method includes: step 1, acquiring an original urban landscape image, performing data enhancement processing to obtain a skyline image, and saving the skyline image as sample image data; step 2, annotating the sample image data to mark a position of the skyline, and generating a training data set and a verification data set; step 3, constructing a skyline detection neural network model, determining a loss function, and training the skyline detection neural network model by means of the training data set in step 2 until the skyline detection neural network model is converged to obtain an optimal model; and step 4, detecting the skyline of the urban landscape image using the trained optimal model. The present invention can effectively detect the skyline in the urban landscape image, accurately detect the position of the skyline in

the urban landscape image, and provide strong support for related urban landscape analysis, planning and other applications.

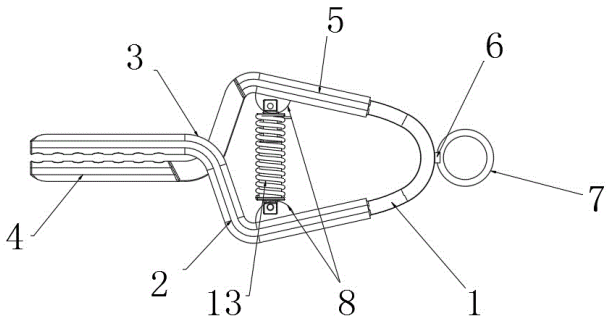



21: 2025/00898. 22: 2025/01/27. 43: 2025/08/05
51: G01N
71: Jiangsu Cancer Hospital
72: TENG, Yue, ZHU, Jingni
33: CN 31: 2025100311193 32: 2025-01-09

**54: TUMOR SAMPLING DEVICE FOR MEDICAL ONCOLOGY**

00: -

The present invention belongs to the technical field of sampling devices, and particularly relates to a tumor sampling device for medical oncology. The tumor sampling device for medical oncology includes a clamping device, where the clamping device includes a handle section, a curved section integrally formed with the handle section, and a clamping section integrally formed with the curved section at the same time, where the clamping section is sleeved with a disposable sheath, the handle section is installed with a protective pad, and one end of the handle section is fixedly connected with a connecting block. In the present invention, in terms of precise sampling, the curved section of the clamping device fits the anatomical structure of the human body, which can precisely locate the tumor, and the disposable sheath can protect the sample, which greatly improves sampling accuracy; and in terms of operation performance, the protective pad of the handle reduces the hand fatigue of medical staff, the hanging ring facilitates storage and retrieval, and the limit rebound device makes the clamping operation convenient and efficient, which effectively improves operational convenience. Compared with traditional tools, the device effectively settles the shortcomings of traditional sampling tools and strongly guarantees the accuracy, safety and convenience of tumor sampling.



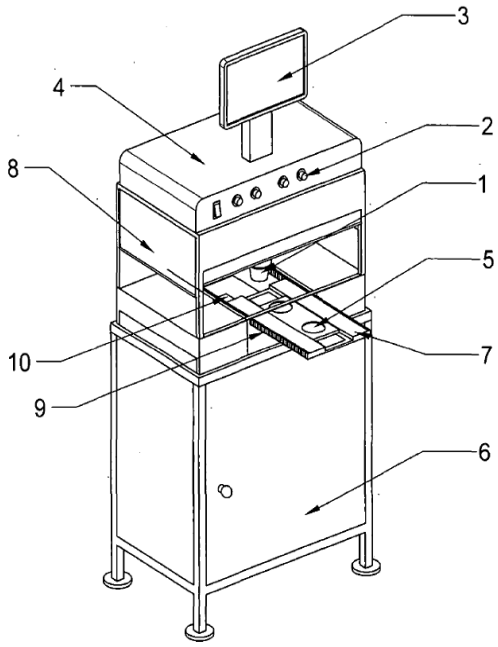

21: 2025/00915. 22: 2025/01/27. 43: 2025/08/05
51: G01N; G06F
71: JAYAKUMAR, P.
72: PADMANABHAN, S., JAYAKUMAR, P.
33: IN 31: 202241022678 32: 2022-04-18

**54: VISION BASED SEMI AUTOMATIC BLOOD CROSS MATCH IDENTIFIER AND MICRO-ORGANISMS VIEW MAGNIFIER**

00: -

The titled invention "Vision Based Semi-Automatic Blood Cross Match Identifier and Micro Organisms View Magnifier" discloses a vision-based semi-automatic blood cross-match identifier designed to identify the agglutination of blood sample taken from donor and recipient through microscopy. The device includes a heightened platform with a moving conveyor and an enclosed cabin. The blood glass slide (5) is fixed with a barcode identity that reveals the name of both the donor and recipient. The color code is provided on the surface of the glass slide ( 5) to distinguish between major and minor cross-match samples. The blood glass side (5) is placed at the entrance of the device, and the slider deck (7) moves the slide to the next stage where it is placed under the dual microscope (I). The microscope (I) captures the image of the blood sample, and the image is sent to the image processor where it is

compared with the database and analyzed. The magnified image can be seen through the monitor display (3) in real-time. The result of the cross-match is displayed on the monitor screen (3) and saved in the memory of the device. After the result is delivered, the slider deck (7) moves and transfers the slide to the final stage for disposal. The device is provided with a storage cabin (6) with a door under the bed to procure and store the necessary accessories and tools safely. The image is captured by the dual microscope (I), which requires a shadow less light source to capture the image very clearly. The flexible screen (8) is provided at three sides of the camera except the backside is made to close down automatically while the image capturing from the slide us commenced. The device is highly efficient in analyzing the blood samples, and it prevents unnecessary glaring, thereby ensuring the accuracy of the result. The device can also be utilized to conduct visual research on micro organism by placing the specimen under the microscope to view the magnified image on the monitor display.

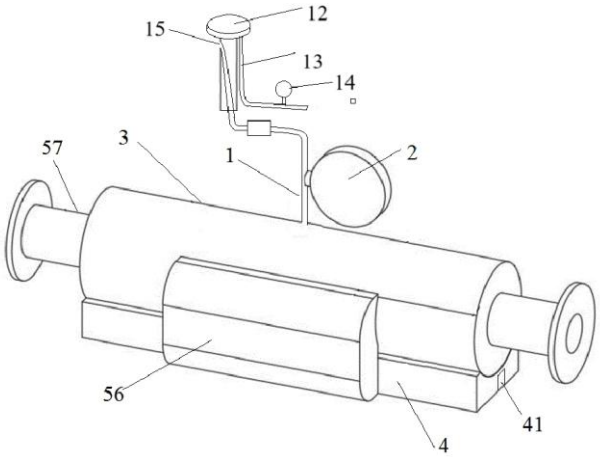



21: 2025/00916. 22: 2025/01/27. 43: 2025/08/05
51: A61M
71: JIANGSU CANCER HOSPITAL
72: HU Tingting, QIAN Yichun, YU Jie, CHEN Wei, WANG Meixiang, SHAO Jinlan, YANG Cuimei, ZHANG Linhua, YE Zi

**54: CONTINUOUS SUBGLOTTIC SECRET DRAINAGE DEVICE WITH ADJUSTABLE PRESSURE**

00: -

The present invention discloses a continuous subglottic secret drainage (SSD) device with adjustable pressure, including a connecting tube, a first pressure monitoring part, a second pressure monitoring part, a negative pressure bottle and a collecting bottle. One end of the connecting tube is communicated with a balloon conduit, and a balloon on the balloon catheter being configured to communicate with an external inflation component through a trachea and is supported on an inner wall of the patient's laryngeal cavity. A first pressure monitoring part monitors the pressure information of the balloon. A negative pressure adjusting component is arranged in the negative pressure bottle. The collection bottle can be detachably connected and communicated with the negative pressure bottle. The continuous SSD device with adjustable pressure provided by the present invention is convenient to adjust the suction negative pressure and improves the flexibility of use.



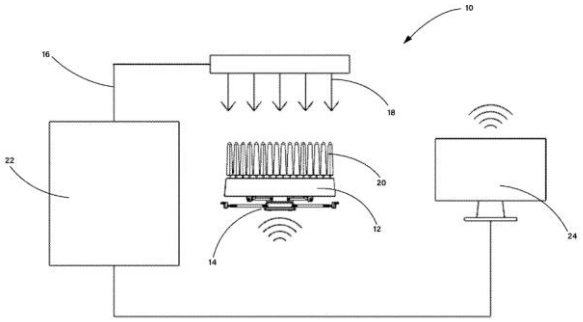

21: 2025/00932. 22: 2025/01/28. 43: 2025/08/05
51: A01G
71: SUPA SOLUTION (PTY) LTD
72: HEYMANS, Malem Scheepers, REINSTORF, Heinz Otto
33: ZA 31: 2022/08610 32: 2022-08-02

**54: SYSTEM FOR WATERING PLANTS**

00: -

A plant watering system (10) includes: a plurality of containers (12) for containing plant growing medium and plants (20); a conduit (16) defining an outlet ((18) for, in use, conveying water along the conduit

and discharging water via the conduit outlet; a regulator (22) for regulating the flow of water along the conduit; a scale (14) associated with one of the containers for determining the weight of the associated container; a controller (24) that controls the regulator, thereby to vary the flow of water along the conduit in response to the container weight determined by the scale and means for moving; the conduit outlet across the plurality of containers, in use to provide water to the plurality of containers.

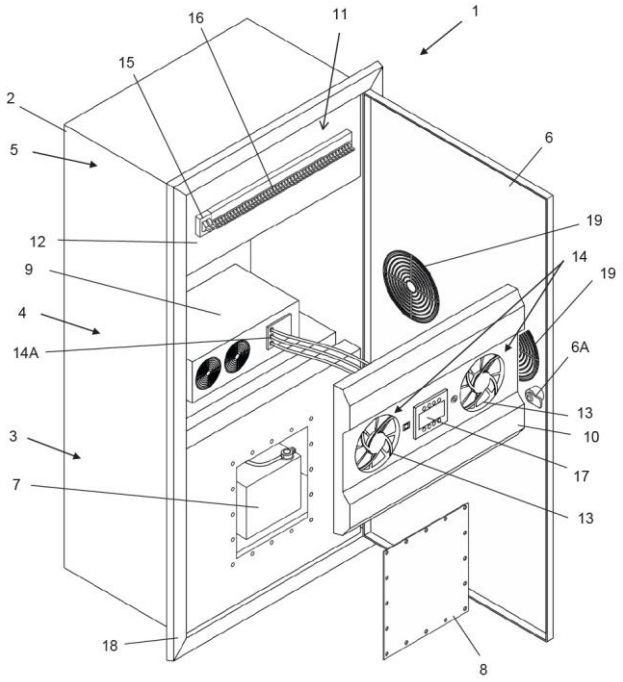



21: 2025/00955. 22: 2025/01/29. 43: 2025/08/05
51: H02B
71: OOSTHUIZEN, Hendrik Jacobus
72: OOSTHUIZEN, Hendrik Jacobus
33: ZA 31: 2023/04948 32: 2023-11-03

**54: DISTRIBUTION BOARD WITH INTEGRATED BACKUP POWER**

00: -

An electrical distribution board that includes a housing with at least three compartments, including a battery compartment, an inverter compartment, and a circuit breaker compartment, with the compartments having a lockable door; with the inverter compartment provided with a plurality of electrical outputs to allow electrical supply feed from an inverter that is securable within the inverter compartment to any one or more of a plurality of electrical supply sources each being connectable to a circuit breaker for that electrical supply source, and the inverter compartment including a master circuit breaker for the inverter; and with the circuit breaker compartment comprising a smart switch circuit breaker compartment, with at least one circuit breaker rail onto which a plurality of smart switch circuit breakers may be mounted.

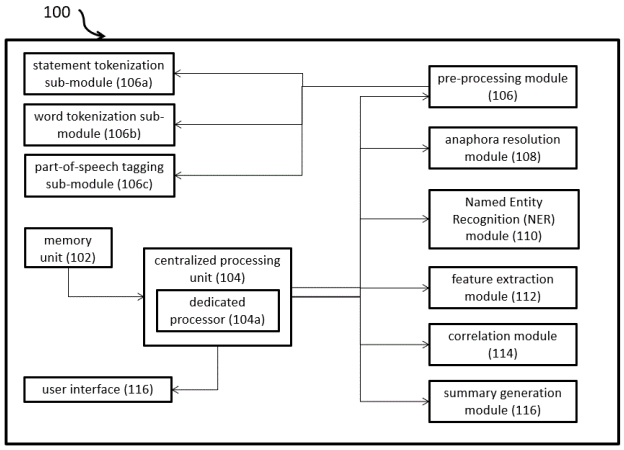



21: 2025/00960. 22: 2025/01/29. 43: 2025/08/05
51: G06F
71: Deepali Vaijinath Sawane, Dr. Sonali Gaikwad, Jyotsna Gaikwad
72: Deepali Vaijinath Sawane, Dr. Sonali Gaikwad, Jyotsna Gaikwad

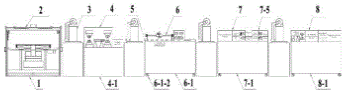
**54: AN INTELLIGENT SYSTEM AND METHOD FOR AUTOMATED FEATURE EXTRACTION AND SUMMARIZATION OF KEY INFORMATION FROM DATA STREAMS**

00: -

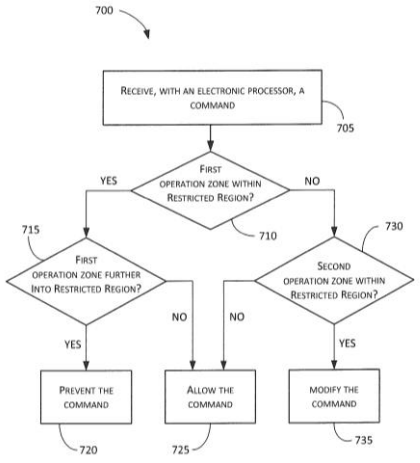
The present invention presents an intelligent system and method for automated feature extraction and summarization of key information from data streams. The proposed system includes modules for pre-processing, part-of-speech tagging, anaphora resolution, named entity recognition, feature extraction, relevance determination, and summary generation. The system accurately identifies and categorizes essential elements like performers, events, and locations, resolving references for coherence. By selecting and organizing the most relevant sentences, it generates concise summaries, reducing manual effort and improving efficiency. This invention is particularly useful for handling large volumes of text, providing clear and precise summaries that enhance understanding and save time.




21: 2025/01107. 22: 2025/02/05. 43: 2025/08/08
51: B29C
71: Taiyuan University of Science and Technology
72: MENG, Wenjun, ZHAO, Zhangda, REN, Hong, ZHAO, Xiaoxia, YAN, Bijuan, QIAO, Guansen, SUN, Zhengyu, SUN, Xiaoxia, YIN, Xuan
33: CN 31: 202410171038.9 32: 2024-02-06
**54: MANUFACTURING PROCESS AND MANUFACTURING DEVICE FOR COMPOSITE RUBBER SANDWICH VIBRATION REDUCTION STRUCTURE**
00: -
Disclosed are a manufacturing process and manufacturing device for a composite rubber sandwich vibration reduction structure. The manufacturing device includes a cleaning workbench, a stain and rust removal cleaning device is arranged on an upper surface of the cleaning workbench, a first workbench stand is arranged on the cleaning workbench, an open-type box body is arranged inside the first workbench stand, and a cleaning tank is fixedly connected to an upper portion of an inner wall of the open-type box body. Through the coordinated use of a manipulator, the cleaning workbench, the stain and rust removal cleaning device, a straightening workbench, an adhesive applying workbench, an adhesive pressing and vulcanizing workbench and a coating, sizing and shaping workbench, an integrated intelligent complete manufacturing process for cleaning and stain removal-grinding and straightening-multilayer distributed adhesive applying-adhesive pressing and vulcanizing-sizing, coating and shaping of the multilayer damping structure is formed.

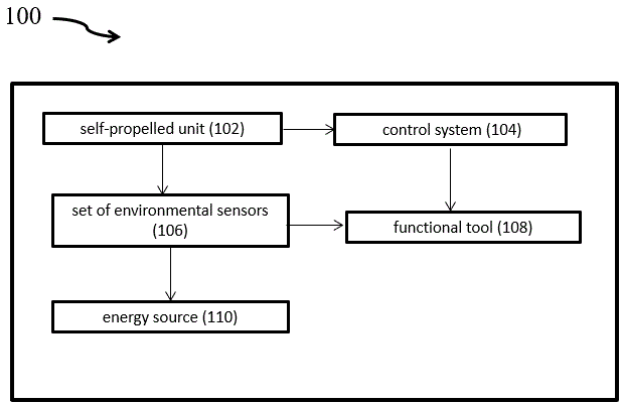


21: 2025/01109. 22: 2025/02/05. 43: 2025/08/08
51: E21C
71: JOY GLOBAL SURFACE MINING INC.
72: MALEGAM, Keshad Darayas
33: US 31: 18/434,565 32: 2024-02-06
**54: SYSTEM AND METHOD FOR OPERATING A MINING MACHINE WITH RESPECT TO A GEOFENCE USING A DYNAMIC OPERATION ZONE**
00: -
Systems and methods for operating a mining machine with respect to a geofence. One system includes an electronic processor configured to determine a first virtual operation zone positioned around the mobile industrial machine, where the first virtual operation zone is a dynamic area around the mobile industrial machine. The electronic processor is also configured to modify a parameter of the first virtual operation zone.




21: 2025/01111. 22: 2025/02/05. 43: 2025/08/08
51: B63C
71: Dr. Devesh Mishra, Dr. Deepak Kumar Jarwal, Dr. Supriya Jaiswal, Dr. Saiyed Salim Sayeed, Dr. Akhilesh Kumar Pandey
72: Dr. Devesh Mishra, Dr. Deepak Kumar Jarwal, Dr. Supriya Jaiswal, Dr. Saiyed Salim Sayeed, Dr. Akhilesh Kumar Pandey
**54: APPARATUS FOR AUTONOMOUS FUNCTIONS IN AQUATIC ZONES**
00: -

This invention relates to robotic, autonomous devices capable of conducting physical operations in aquatic habitats with limited (preferably no) human involvement. The apparatus includes a self-propelled unit with advanced propulsion means such as propellers, impellers or water-jet thrusters, providing stable and accurate maneuverability in different water conditions. Real-time environmental data is processed by an intelligent control system, which is integrated with artificial intelligence-based decision-making algorithms that enable dynamic adjustments in navigation and the execution of tasks. The system uses a variety of environmental inherent sensors (sonar, infrared, temperature, chemical, etc.) to maintain altering of the water conditions, detect obstacles, and analyze pollution. It is equipped with a modular functional tool, like an extensible robotic appendage with force-feedback control or an autonomous flotation device deployment system, to carry out specific tasks like underwater object manipulation, search and rescue operations, and environmental monitoring.




21: 2025/01140. 22: 2025/02/06. 43: 2025/08/11
51: C08F
71: Liaoning Petrochemical University, Hebei Marketing Company of PetroChina Co., Ltd.
72: HAN, Qiao, CAI, Yulin, WANG, Yujia, HE, Jing, SUN, Na, KANG, Lei, BAI, Yingzhi

**54: COMPOSITE CATALYST FOR PREPARATION OF 1,3-BUTADIENE FROM ETHANOL, AND PREPARATION METHOD AND APPLICATION THEREOF**

00: -

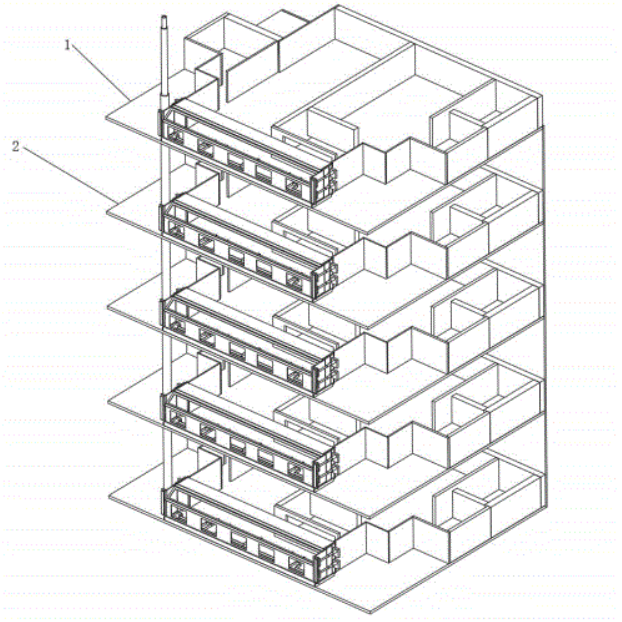
Disclosed is a composite catalyst and application thereof in preparation of 1,3-butadiene from ethanol. The composite catalyst is composed of a sheet-like molecular sieve and an alkali metal refractory salt. The composite catalyst provided in the present invention is applied to preparation of 1,3-butadiene from ethanol, to enhance the ethanol conversion rate and the yield of 1,3-butadiene.

21: 2025/01145. 22: 2025/02/06. 43: 2025/08/11
51: A01G; E04B; E04F
71: Jinggangshan University
72: HU, Ming, YANG, Kai

**54: FOREST GARDEN TYPE BUILDING STRUCTURE**

00: -

The present invention relates to a forest garden type building structure, including a first structural layer, a second structural layer, a third structural layer, a fourth structural layer and a fifth structural layer, wherein the second structural layer is arranged on a lower end of the first structural layer, the third structural layer is arranged on a lower end of the second structural layer, the fourth structural layer is arranged on a lower end of the third structural layer, and the fifth structural layer is arranged on a lower end of the fourth structural layer; the first structural layer, the second structural layer, the third structural layer, the fourth structural layer and the fifth structural layer have identical structures; the first structural layer includes a frame wall, a base plate and a garden structure. The arrangement of the structure facilitates protection on windy days.

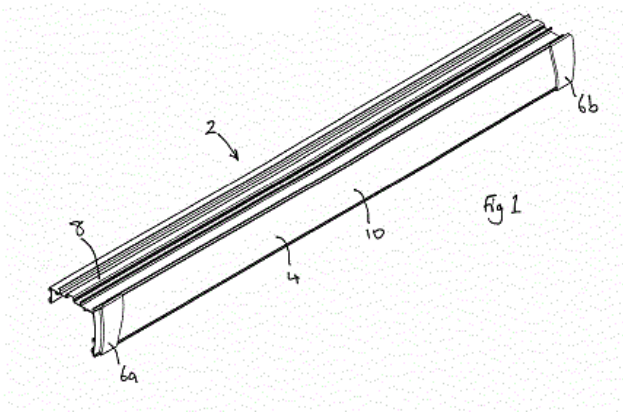


21: 2025/01157. 22: 2025/02/06. 43: 2025/08/11
51: E06B
71: LOUVER LITE LIMITED
72: GREENING, Andrew
33: GB 31: 2210299.0 32: 2022-07-13

**54: A WINDOW BLIND HEADRAIL**

00: -

A Window Blind Headrail A window blind headrail, wherein the headrail includes a headrail body that defines a longitudinal axis; wherein the headrail body includes a front wall; wherein the headrail further includes a pair of end covers, the end covers being slidably coupled to the front wall of the headrail body; wherein the end covers slide axially along the front wall; and wherein each end cover has an extended configuration in which a part of the end cover projects beyond a respective end of the headrail body.

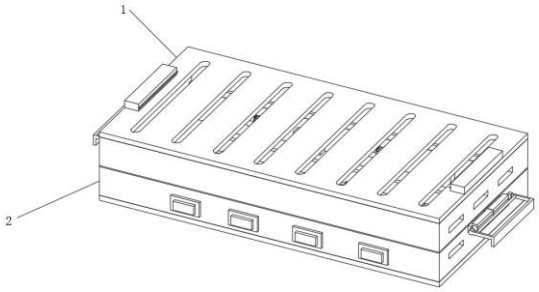



21: 2025/01168. 22: 2025/02/06. 43: 2025/08/11
51: A61J
71: SHANGHAI UNIVERSITY OF MEDICINE AND HEALTH SCIENCES
72: LI Lanying, HUANG Xiyuan, SUN Yingxuan

**54: MEDICAL DEVICE BOX FOR EFFICIENT ACCESS**

00: -

The present invention relates to the technical field of medical device boxes, and particularly a medical device box for efficient access, including an upper cover structure and a box body structure, an upper end of the box body structure being fixedly connected to the upper cover structure; the upper cover structure including a top shell and limiting blocks, and the top shell is fixedly connected to the limiting blocks; and the box body structure including a limiting bearing component, a frame plate frame, clamping frames, limiting adjustment frames and touch switches, the touch switches being mounted on the frame plate frame, the touch switches being electrically connected to the limiting bearing component, side ends of the frame plate frame being fixedly connected to the limiting adjustment frames, and the limiting adjustment frames being reversely connected to the clamping frames. The structural arrangement makes it convenient to take out a device.



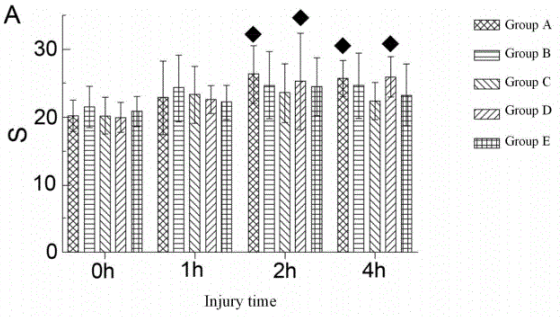

21: 2025/01179. 22: 2025/02/07. 43: 2025/08/11
51: A01N; A61K; A61P
71: ARMY MEDICAL UNIVERSITY, PEOPLE'S LIBERATION ARMY, PRC
72: DAI, Chenglin, ZONG, Zhaowen, CHEN, Lin, DU, Wenjuan, JIANG, Renqing, ZHONG, Xin, JIA, Yijun, CHEN, Can, YANG, Haoyang, LIU, Song
33: CN 31: 202510035666.9 32: 2025-01-08

**54: PREPARATION METHOD OF LYOPHILIZED PLATELET (LP) AND USE OF LP IN PREPARATION OF TRAUMATIC HEMOSTATIC PRODUCT**

00: -

A method for preparing lyophilized platelets and use in preparation of a traumatic hemostatic product are provided. The preparation method adopts appropriate lyophilization conditions, has a faster lyophilization process than conventional lyophilization processes, and can increase an activation rate of LPs to about 70 percent while maintaining an activity of the LPs. The lyophilized platelets prepared by the preparation method shows stronger migration ability than conventional LPs, have higher maximum amplitude (MA) of blood clots in in vitro and in vivo experiments than the conventional LPs, and exhibit an excellent hemostatic effect. In addition, the platelet transfusion stock solution has enhanced coagulation activity after transfusion into trauma simulation animals

compared with the conventional LPs, and is distributed to injury sites in a larger quantity, thereby better promoting coagulation and improving post-traumatic coagulation dysfunction. Moreover, there are fewer platelets in the blood circulation, reducing a probability of ectopic thrombosis.

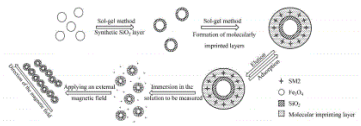



21: 2025/01180. 22: 2025/02/07. 43: 2025/08/11
51: G01N
71: QILU UNIVERSITY OF TECHNOLOGY (SHANDONG ACADEMY OF SCIENCES)
72: HE, Jinxing, WANG, Xin, ZHAO, Xiaolei, LV, Lei
33: CN 31: 202410553961.9 32: 2024-05-07

**54: MAGNETIC MOLECULARLY IMPRINTED PHOTONIC CRYSTAL SENSOR, PREPARATION METHOD AND APPLICATION THEREOF**

00: -

The present invention belongs to the technical fields of molecularly imprinted photonic crystals (PCs) and molecular detection, and particularly to a magnetic molecularly imprinted PC sensor, a preparation method and the application thereof. In the present invention, Fe3O4 nanoparticles with a uniform particle diameter are synthesized by the hydrothermal method, and then silica shell layers are coated on the outer layers of the Fe3O4 nanoparticles by the sol-gel method to form Fe3O4 coupled with SiO2; a sulfamethazine (SM2) molecularly imprinted layer is prepared on Fe3O4 coupled with SiO2 and self-assembled into a one-dimensional chain PC structure under the action of an external magnetic field to obtain a liquid molecularly imprinted PC sensor. The molecularly imprinted PC sensor prepared by the present invention can convert a chemical signal combined by SM2 and molecularly imprinted holes into an optical signal which can be directly observed by diffracted light.

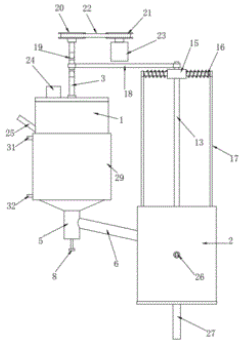


21: 2025/01181. 22: 2025/02/07. 43: 2025/08/11
51: B01J
71: Anhui Medical College
72: JIANG, Dayuan, LIU, Jiachen, CHENG, Jie, ZHU, Xiaoyu

**54: INTERMEDIATE PREPARATION APPARATUS**

00: -

The present invention discloses intermediate preparation apparatus. The apparatus includes a tank body, a stirring shaft is rotatably mounted on the tank body, a driving mechanism is in transmission connection with the stirring shaft, a jacket is arranged outside the tank body, a heating space is formed between the jacket and the outer wall of the tank body, a spiral baffle is arranged around the tank body in the heating space, a cleaning box is arranged below one side of the tank body, a cleaning screen is arranged in the cleaning box, the cleaning screen is detachably connected to a vibration module, the cleaning box communicates with the bottom of the tank body through a conveying module, and a discharging port of the conveying module is arranged right above the cleaning screen, and the stirring shaft is in transmission connection with the vibration module.

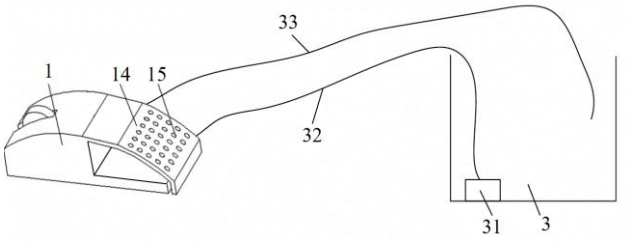


21: 2025/01182. 22: 2025/02/07. 43: 2025/08/11
51: G06F
71: Heilongjiang Institute of Construction Technology
72: FAN, Liping, GAO, Tingting, LIU, Bin, WAN, Tingting, HUANG, Jinhua

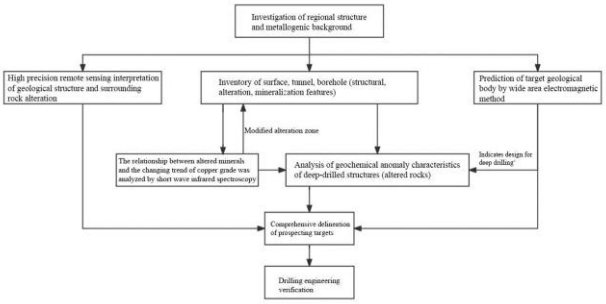
**54: MOUSE**

00: -

The present invention discloses a mouse, including a mouse body, a water inlet pipe, a water return pipe, a water pump and a water storage tank; a mounting plate and a palm rest plate are fixedly arranged at a rear end of the mouse body; a heat dissipation space is left between the palm rest plate and the mounting plate, the palm rest plate is an arc-shaped plate, ventilation holes are formed in the palm rest plate, the ventilation holes communicate a space above the palm rest plate with the heat dissipation space, the heat dissipation space is communicated with an external environment, a serpentine channel is arranged inside the palm rest plate, the serpentine channel runs between the ventilation holes, and one end of the serpentine channel serves as a liquid inlet. The present invention can achieve effective heat dissipation and cooling in a palm covering area.

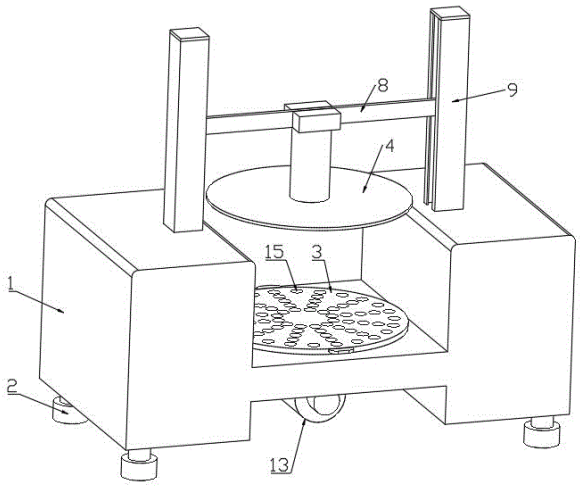



21: 2025/01183. 22: 2025/02/07. 43: 2025/08/11
51: G01V
71: Kunming University of Science and Technology, Yunnan Diqing NonFerrous Metal Co., Ltd.
72: Lei Wang, Yufeng Deng, Fan Yang, Lianrong Wu, Yan Su, Junji Lu, Tao Ren, Shenjin Guan, Jinhua Wei, Jie Xu, Liang Li, Youcai Sha
33: CN 31: 202410864193.9 32: 2024-06-30
**54: A METHOD SUITABLE FOR DEEP AREA AND EDGE AREA PROSPECTING OF PORPHYRY COPPER POLYMETALLIC DEPOSITS**
00: -
The invention relates to the technical field of mineral resources, in particular to a method suitable for deep area and edge area prospecting of porphyry copper polymetallic deposits. The invention integrates the prospecting and exploration methods of high-precision remote sensing geological interpretation, actual measurement catalog sampling (structure-alteration-mineralization), wide-area electromagnetic method, short-wave infrared spectrum, and structural (altered rock) geochemical analysis, and the implementation process of the technical method can be connected with each other and timely leak detection and correction. It has the advantages of improving the success rate of prospecting, locating ore body more accurately, reducing the exploration cost, enhancing the exploration accuracy, reducing the environmental damage and improving the utilization rate of resources, and is of great significance for promoting the rational development and utilization of mineral resource.

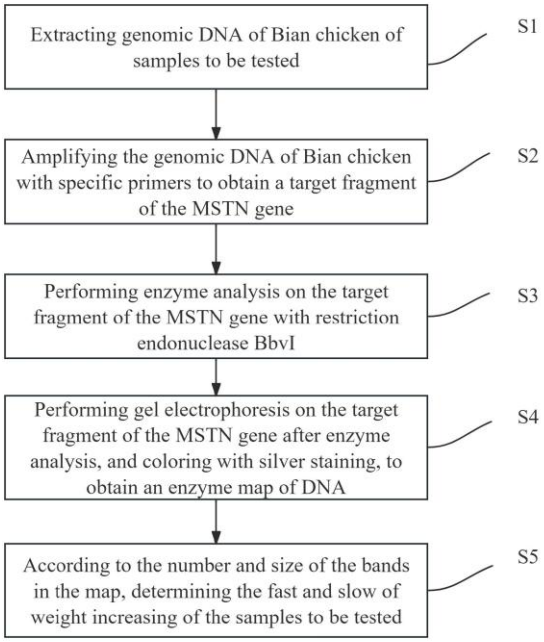



21: 2025/01184. 22: 2025/02/07. 43: 2025/08/11
51: A61K
71: Yonghai Zhu
72: Yonghai Zhu
**54: MACROBIOTIC SCALP PASTE**
00: -
A macrobiotic scalp paste is made of the following medicinal materials in the following weight ratios: 1~3 parts of velvet antler, 12~18 parts of butea superbal, 10~15 parts of dandelion, 2~5 parts of herba cistanche, 1~3 parts of glossy privet fruit, 2~5 parts of lucid ganoderma, 2~5 parts of rhizoma gastrodiae, 2~5 parts of ginger, 10~15 parts of pseudo-ginseng, 12~18 parts of morinda officinalis, 42~ 55 parts of polygonum multiflorum, 7~14 parts of astragali radix, 7~14 parts of salvia miltiorrhiza, 5~11 parts of cacumen biotae, 3~8 parts of peppermint, 2~5 parts of tea tree oil, 5~11 parts of mulberry, 10~15 parts of black bean powder, 2~5 parts of radix sophorae flavescentis, 7~14 parts of black sesame, 7~14 parts of pollen pini, and 1~3 parts of American ginseng powder. By nourishing the liver and kidneys, invigorating blood circulation and removing blood stasis, clearing away heat and detoxifying the toxins, dispelling wind and relieving itchiness, and nourishing the roots of the hair, the invention provides comprehensive nourishment and care for the scalp.

21: 2025/01185. 22: 2025/02/07. 43: 2025/08/11
51: B30B
71: Ningbo Zhenhai Longsai Medical Group
72: Keying Bao, Zhujun Wu, Qing Su, Jiale Pan, Enlin Zhang, Yudi Gao
**54: WHEAT GRAIN MOXIBUSTION EXTRUSION FORMING DEVICE**
00: -
A wheat grain moxibustion extrusion forming device, comprising a support frame, and multiple legs are provided at a bottom end of the support frame; wherein a wheat grain moxibustion template is provided on the support frame; an extrusion plate is provided at a top end of the wheat grain moxibustion template; an automatic lifting and adjusting device is connected to the extrusion plate, and the automatic lifting and adjusting device comprises driving motors, rotating screws, sliders, a transverse connecting plate and protective shells; the driving motors are provided at bottom ends of the rotating screws; the sliders are connected to the rotating screws; two ends of the transverse connecting plate are fixedly connected to the sliders; the extrusion plate is provided at a middle part below the transverse connecting plate. The structure mentioned hereinabove can automatically extrude the wheat grain moxibustion, and the force applied by the structure mentioned hereinabove is more uniform than that produced manually, and the production efficiency is higher; the moxa sticks produced by the structure mentioned hereinabove have higher quality than those produced manually in the prior art.




21: 2025/01186. 22: 2025/02/07. 43: 2025/08/11
51: C12Q
71: SHANXI AGRICULTURAL UNIVERSITY
72: ZHANG, Qi
33: CN 31: 202410378173.0 32: 2024-03-29
**54: METHOD FOR RAPIDLY SCREENING WEIGHT-INCREASING DEGREE OF BIAN CHICKEN**
00: -
The present invention belongs to the field of poultry breeding and discloses a method for rapidly screening a weight-increasing degree of Bian chicken. The method specifically includes: extracting genomic DNA of Bian chicken of samples to be tested; amplifying the genomic DNA of Bian chicken with specific primers to obtain a target fragment of the MSTN gene; performing enzyme analysis on the target fragment of the MSTN gene with restriction endonuclease BbvI; performing gel electrophoresis on the target fragment of the MSTN gene after enzyme analysis, and coloring with silver staining, to obtain an enzyme map of DNA; and according to the number and size of the bands in the map, determining the fast and slow of weight increasing of the samples to be tested. The present invention provides a method for screening the weight-increasing degree of Bian chicken by DNA molecular marker, and this method uses chicken BbvI enzyme map to marker-assisted select the weight of Bian chicken, which is not affected by the environment.

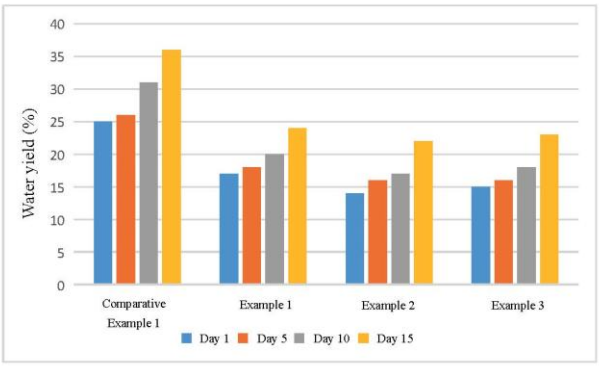



21: 2025/01187. 22: 2025/02/07. 43: 2025/08/11
51: C12H
71: GANSU KAIYUAN BIOTECHNOLOGY DEVELOPMENT CENTER LIMITED LIABILITY COMPANY, HEXI UNIVERSITY
72: LUO, Guanghong, YANG, Shenghui, JIAO, Yang, LI, Li, WANG, Jin, WANG, Nanbin, WANG, Lijuan, ZHANG, Xifeng, WANG, Danxia, MIAO, Huan, WU, Fang

**54: CISTANCHE DESERTICOLA FERMENTED YOGURT AND PREPARATION METHOD THEREFOR**

00: -

The present invention provides a Cistanche deserticola fermented yogurt and belongs to the technical field of food processing. The Cistanche deserticola fermented yogurt is mainly composed of the following components in weight percentage: 4%-6% casein, 62%-82% raw milk, 0.3%-1% Cistanche deserticola powder, 0.1%-0.4% hydroxypropyl potato starch, 0.2%-1% stabilizer, 0.1%-0.5% strain, 6%-10% Nostoc commune extract, 4%-7% granulated sugar, and the balance of softened water. The Cistanche deserticola fermented yogurt provided by the present invention uses the medicinal and edible raw material Cistanche deserticola in a fermented yogurt product, broadens the edible forms of the Cistanche deserticola, extends the industrial chain of Cistanche deserticola as a raw material, enables the artificial planting base of Cistanchetubulosa(Schenk)Wight to be favorably developed, and solves the problems that the fermented yogurt prepared by the Cistanche deserticola is prone to whey precipitation.

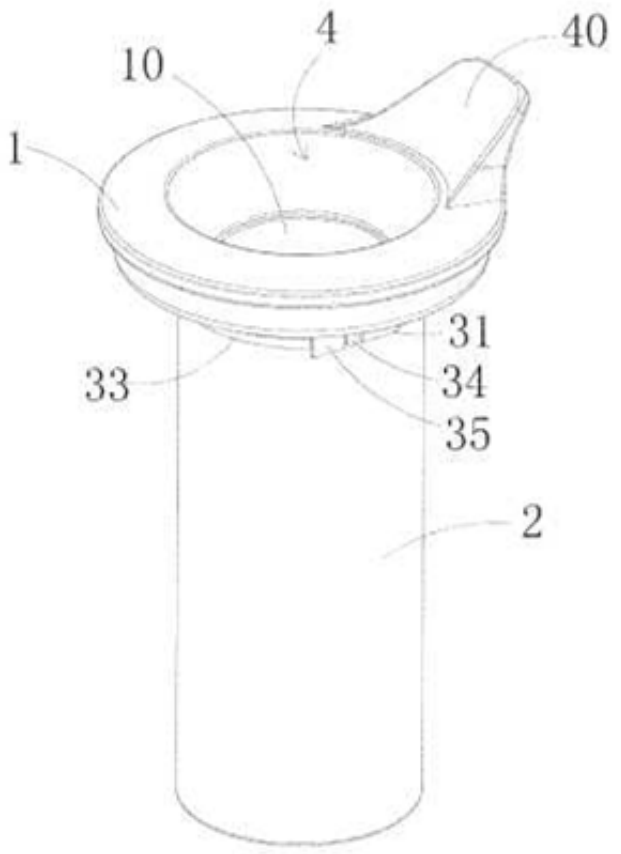



21: 2025/01189. 22: 2025/02/07. 43: 2025/08/11
51: A47G
71: NINGBO SMAL ELECTRICS CO., LTD.
72: DONG, Yuejun, YU, Yingli
33: CN 31: 202221920930.5 32: 2022-07-21

**54: INFUSED OBJECT CONTAINER AND INFUSING DEVICE**

00: -

The present application provides an infused object container and an infusing device, and the infused object container includes a body, a baffle, a closing mechanism and a connecting mechanism. The body is disposed with a through liquid injection port; the baffle is movably arranged at the liquid injection port; the impact force of liquid in the liquid injection port suffered by the baffle is sensed, the driving force may be applied to the baffle to enable the baffle to close the liquid injection port, or the baffle is forced to open the liquid injection port; and the connecting mechanism is connected to the body to connect at least one infused object receiving member.

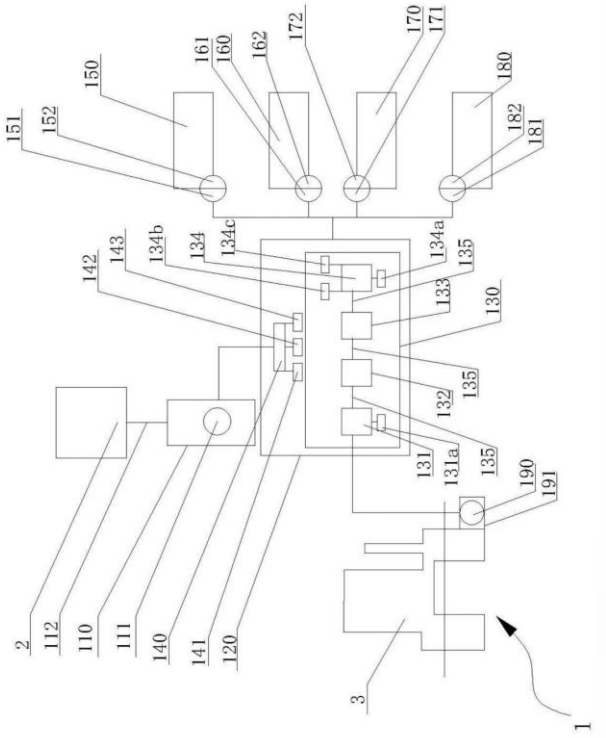



21: 2025/01191. 22: 2025/02/07. 43: 2025/08/11
51: E21B
71: CHINA NATIONAL OFFSHORE OIL CORP., CNOOC ENERGY TECHNOLOGY & SERVICES LIMITED
72: XUE Hailin, ZHANG Yi, SHI Xuanwei, HUANG Xinchun, LI Hongzhen, ZHANG Rong, HE Chao, MIAO Jie, LI Yanhui, QIN Qiang, LUAN Dejue, CHEN Lu, LIANG Enwu, ZHENG Tianyu, ZHANG Shuangshuang
33: CN 31: 202310513541.3 32: 2023-05-09

**54: AN ELECTRO-HYDRAULIC CENTRAL CONTROL SYSTEM FOR UNMANNED PLATFORMS**

00: -

The present invention discloses an electro-hydraulic central control system for unmanned platforms, comprising: a WHCP electrical control box, which is connected to a central control unit by cable, and a WHCP electrical control knob is arranged on the WHCP electrical control box; a wellhead control panel (WHCP), which is electrically connected to the WHCP electrical control box, and the WHCP is provided with a WHCP hydraulic unit and a WHCP electrical control unit, respectively; and a disc brake hydraulic station unit, a drilling rig hydraulic station unit, a machine tool hydraulic station unit, and a workover rig unit with hydraulic control valves inside thereof coupled to the WHCP, respectively. The beneficial effects of the invention are that: The WHCP is coupled with the hydraulic control valves inside the disc brake hydraulic station unit, the drilling rig hydraulic station unit, the machine tool hydraulic station unit, and the workover rig unit, respectively, to realize the uniform electro-hydraulic control of hydraulic equipment of unmanned platforms.



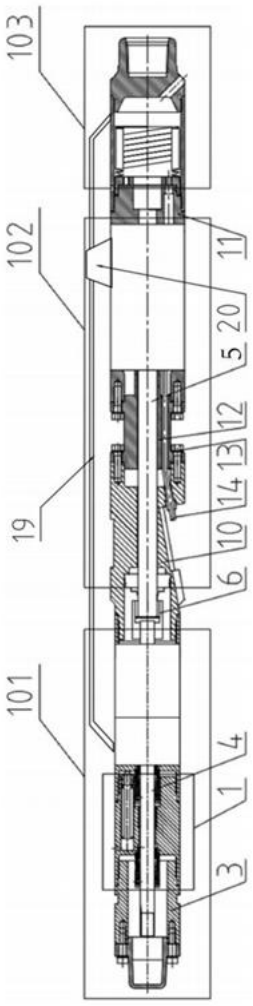

21: 2025/01206. 22: 2025/02/07. 43: 2025/08/11
51: H02K
71: CHINA NATIONAL OFFSHORE OIL CORP, CNOOC ENERGY TECHNOLOGY & SERVICES LIMITED
72: HUANG Xinchun, HUANG Linggang, LI Lingxi, FU Jun, LIU Min, MIAO Jie, SHI Xuanwei, ZHANG Rong, YUAN Bo, LIANG Enwu, ZHENG Tianyu, ZHANG Shuangshuang
33: CN 31: 202310513543.2 32: 2023-05-09

**54: INTEGRATED HIGH-TEMPERATURE OIL-SUBMERGED MOTOR**

00: -

The present invention discloses an integrated high-temperature oil-submerged motor, comprising a

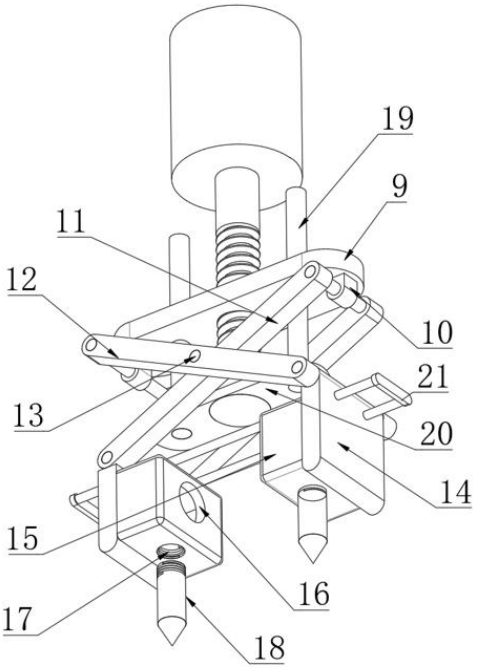
combination seal, a motor unit, and a circulating power cavity that are connected in sequence and a motor shaft arranged in the three components; the combination seal includes a plurality of series-connected sealing units, the sealing unit is provided with a regulating capsule mounting hole connected to the outside part, and the regulating capsule mounting hole has a regulating capsule inside; the motor shaft in the circulating power cavity is installed with a vane guide wheel; and the combination seal and the circulating power cavity are connected through a pressure pipeline. The motor of this application meets the high-temperature well conditions of viscous crude thermal recovery on the offshore platform. It realizes injection and production in the same well and avoids the secondary unit descending operation. In addition, it avoids the on-site oil injection and saves the operation time and cost. Through the combination of the vane guide wheel and the pressure pipeline, it achieves cooling and temperature reduction of the motor fluid outside the motor. The series connection of a plurality of sealing units improves the cooling effect of the motor fluid circulating in the external pressure pipeline. Furthermore, the filling, expanding, and rebounding of the regulating capsule adjusts the expansion and contraction of the motor fluid and balances the pressure difference between inside and outside.




21: 2025/01219. 22: 2025/02/10. 43: 2025/08/12
51: G01N
71: NANTONG INSTITUTE OF TECHNOLOGY
72: WANG, Zhiguo, ZHAO, Wei, YANG, Zhichao
**54: GRASSLAND CARBON SINK SAMPLING DEVICE**
00: -

grassland carbon sink sampling device, comprising a universal wheel installed at the bottom of a base plate, and the top of the base plate is equipped with a sampling device which comprises a sampling unit and an isolation unit. The sampling unit, and the isolation unit are installed above the base plate. A motor drives a threaded rod to rotate, which then moves the movable plate on the outer surface of the threaded rod, causing connecting block to push the telescopic inner rod and the telescopic outer rod to perform a shearing motion around the central shaft, causing the installation plate to move downwards

while squeezing inward, allowing the soil to enter the interior of the collecting shell through the collecting tank, by collecting the shell into the interior of the sampling tube, it prevents the soil from falling off during sampling, ensuring the accuracy of the sampling volume.

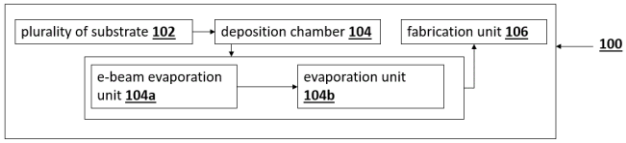



21: 2025/01229. 22: 2025/02/10. 43: 2025/08/12
51: C23C
71: Sapam Bikesh, Dr. Biraj Shougaijam, Professor (Dr.) Aheibam Dinamani Singh
72: Sapam Bikesh, Dr. Biraj Shougaijam, Professor (Dr.) Aheibam Dinamani Singh

**54: DEVELOPMENT OF AN ETHANOL SENSOR BASED ON VERTICALLY ALIGNED SNO2/TIO2 HETEROJUNCTION NANOWIRE USING GLAD TECHNIQUE**

00: -

A Device (100) for developing an ethanol sensor based on vertically aligned SnO2/TiO2 heterojunction nanowire, comprises of: a plurality of substrate (102); and a deposition chamber (104) capable of achieving a base pressure for depositing a plurality of source material on the plurality of substrate (102), wherein the deposition chamber (104) comprises of: an e-beam evaporation unit (104a) equipped with a GLAD technique for loading the plurality of substrate (102) with a source material, wherein the plurality of source material is deposited over the plurality of substrate (102) sequentially upon growth of plurality of NWs such with a defined substrate rotation at a defined glancing incidence angle; and a temperature control unit (104b) for controlling temperature of the evaporation unit (104a) during deposition for growth of nanowires; and a fabrication unit (106) to create interdigitated Silver (Ag) electrodes pattern on the deposited nanowire to form the ethanol sensor.




21: 2025/01231. 22: 2025/02/10. 43: 2025/08/12
51: G01R; H02G
71: Radio Surveillance Corporation (Pty) Ltd
72: NARAINSAMY, Selvanathan
33: ZA 31: 2024/08882 32: 2024-11-22

**54: OVERHEAD ELECTRICAL LINE PROTECTION SYSTEM**

00: -

The invention relates to a monitoring system (10) for overhead electrical line equipment including an electrically live wire (12) suspended above ground on support infrastructure (18) by means of electrical insulators (20). The system includes monitoring means (22) mounted to the support infrastructure (18), including a voltage sensor and programmable logic means. The voltage sensor is configured to receive and process the output voltage of a voltage stepdown system incorporated in the (insulator 20.1) and to supply the processed voltage as a voltage value signal to the programmable logic means (22), which is programmed to continuously monitor the voltage value signal and to generate a line status signal depending on the voltage value of the voltage value signal.

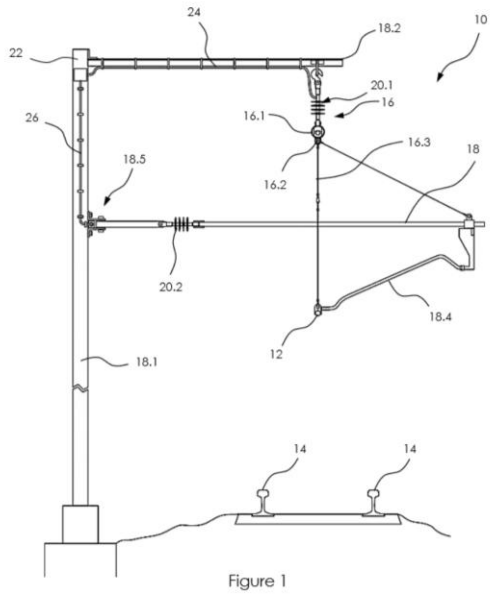


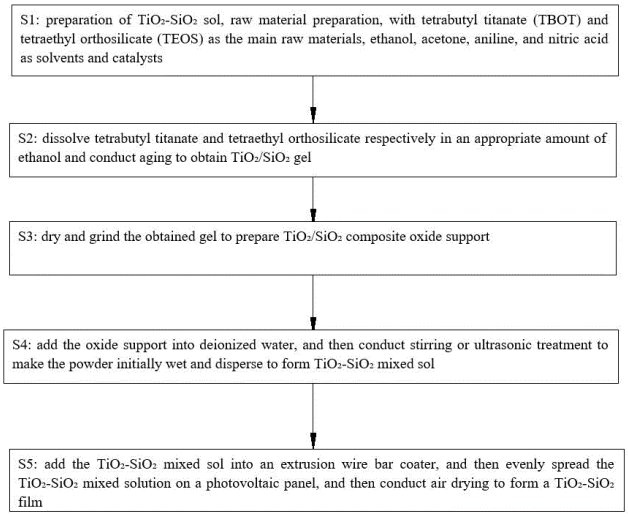
Figure 1

21: 2025/01238. 22: 2025/02/10. 43: 2025/08/12
51: H02S
71: Anhui Science and Technology University
72: Dong Yue, Xu Zhimei, Dong Yuxin, Li Zhisheng, Zhou Mengying, Luo Yuting, Yang Liu
33: CN 31: 2024118745898 32: 2024-12-19

**54: PREPARATION METHOD OF PHOTOVOLTAIC COATING MATERIALS**

00: -

The present invention provides a preparation method of photovoltaic coating materials, falling within the field of photovoltaic coating, including raw material preparation, with tetrabutyl titanate (TBOT) and tetraethyl orthosilicate (TEOS) as the main raw materials, ethanol, acetone, aniline, and nitric acid as solvents and catalysts; dissolving tetrabutyl titanate and tetraethyl orthosilicate respectively in an appropriate amount of ethanol and conducting aging to obtain TiO2/SiO2 gel; drying and grinding the obtained gel to prepare TiO2/SiO2 composite oxide support; and adding the oxide support into deionized water, and then conducting stirring or ultrasonic treatment to make the powder initially wet and disperse to form TiO2-SiO2 mixed sol, so that the TiO2/SiO2 gel may be obtained more quickly. Meanwhile, it is possible to obtain TiO2/SiO2 powder with relatively high purity, facilitating the subsequent formation of the TiO2-SiO2 mixed sol with high purity.

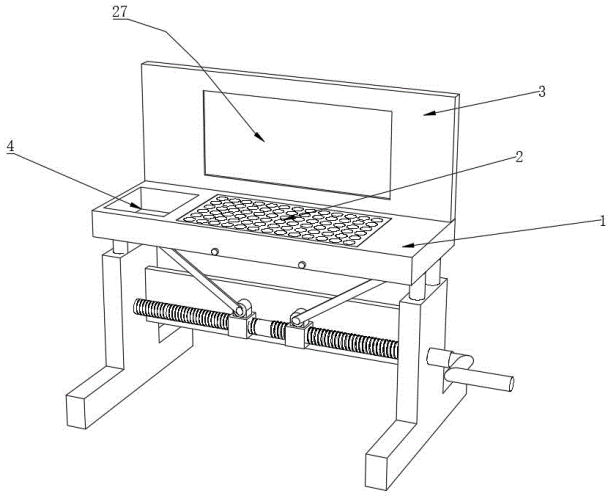



21: 2025/01239. 22: 2025/02/10. 43: 2025/08/12
51: A63B
71: Shanghai Children's Hospital
72: Chen Li, Wang Yu
33: CN 31: 2024119728071 32: 2024-12-30

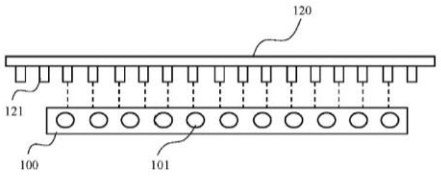
**54: MENTAL REHABILITATION TRAINING DEVICE FOR AUTISTIC CHILDREN**

00: -

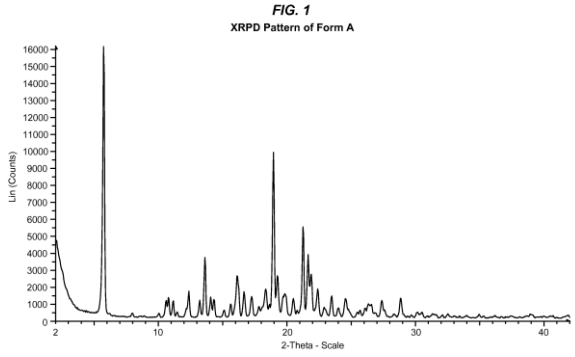
Disclosed is a mental rehabilitation training device for autistic children, including a table board, support columns, support legs, a rocking rod, a bidirectional threaded rod, first sliding blocks, a fixing seat, first rotating rods, connecting rods, a chessboard, a chess piece storage box, and a lifting device. In the present invention, by rotating the rocking rod, the bidirectional threaded rod rotates. The rotation of the bidirectional threaded rod drives the sliding blocks on two sides to slide inward or outward simultaneously. The movement of the two sliding blocks drives the connecting rods to push the table board, allowing it to slide up and down inside the support legs in conjunction with the connecting columns, and the table board is adjusted to a suitable height, enhancing the comfort during using this device.




21: 2025/01407. 22: 2025/02/14. 43: 2025/07/18
51: B65G
71: Aleksey Gennadevich Pridorozhnyi
72: Aleksey Gennadevich Pridorozhnyi
33: RU 31: 2023101713 32: 2023-01-26
**54: SYSTEM AND METHOD FOR SCANNING THE CONDITION OF A STEEL CORD CONVEYOR BELT OF A BELT CONVEYOR**
00: -
The invention relates to the field of monitoring the technical condition of industrial process equipment, and more particularly to a system and method for scanning the condition of a steel cord conveyor belt of a belt conveyor. The system comprises: a magnet arranged across a conveyor belt, for magnetizing the cords of the conveyor belt; a multi-channel scanner containing a group of magnetic field sensors, which enables scanning of the conveyor belt to obtain magnetograms representing signals from a magnetic leakage field in the region of end joints and of damage to the cords; and a computing unit which receives signals from the scanner and processes the obtained magnetograms to determine the extent of damage to a cord and/or the condition of the end joints in the conveyor belt, and to determine the coordinates of damage to the cords and/or the position coordinates of the end joints, wherein the magnetogram processing data is transmitted to an external device. The invention makes it possible to increase the efficiency of conveyor belt condition monitoring.




21: 2025/02152. 22: 2025/03/11. 43: 2025/08/05
51: A61K; A61P
71: PHARMACYCLICS LLC
72: PURRO, Norbert, SMYTH, Mark, GOLDMAN, Erick, WIRTH, David, D.
33: US 31: 61/655,381 32: 2012-06-04
**54: CRYSTALLINE FORMS OF A BRUTON'S TYROSINE KINASE INHIBITOR**
00: -
Described herein is the Bruton's tyrosine kinase (Btk) inhibitor 1-((R)-3-(4-amino-3-(4-phenoxyphenyl)-1H-pyrazolo[3,4-d]pyrimidin-1-yl)piperidin-1-yl)prop-2-en-1-one, including crystalline forms, solvates and pharmaceutically acceptable salts thereof. Also disclosed are pharmaceutical compositions that include the Btk inhibitor, as well as methods of using the Btk inhibitor, alone or in combination with other therapeutic agents, for the treatment of autoimmune diseases or conditions, heteroimmune diseases or conditions, cancer, including lymphoma, and inflammatory diseases or conditions.




21: 2025/02962. 22: 2025/04/08. 43: 2025/07/23
51: C08F
71: Southwest Petroleum University, Sichuan Kete Test Technology Company Limited
72: Guihong Lan, Si Duan, Ketao Cai, Weilin Deng, Yanfeng Zhao, Yonggang Deng, Yisi Liu, Pan Xu, Yunhao Yang, Yusheng Wu, Sha He, Xiaohua Tang, Jianming Wang, Hongyu Tang, Qiang Feng, Jiang Liao
33: CN 31: 202510066896.1 32: 2025-01-16

**54: A TRIMERCAPTOTRIAZINE TRISODIUM SALT CORROSION INHIBITION FUNGICIDE AND A PREPARATION METHOD AND APPLICATION THEREOF**

00: -

The invention discloses a trimercaptotriazine trisodium salt corrosion inhibition fungicide and a preparation method and application thereof, belonging to the technical field of corrosion inhibition fungicide synthesis. The invention takes trithiocyanic acid as raw material, successfully grafting the carbon-carbon double bond on bromo-propylene by reacting with it, forming an intermediate 2, 4-dimercapto-6-mercaptopropenyl-1, 3, 5-triazine monomer, then polymerizing with allyl thiourea, adding an initiator under the protection of nitrogen, heating, stirring, purification and drying in a water bath, and preparing an corrosion inhibition fungicide; The corrosion inhibition fungicide has excellent corrosion inhibition and bactericidal properties at the same time, which can effectively solve the corrosion and microbial pollution problems in oil and gas field pipelines, and still has excellent stability in high temperature environment, meeting the use needs of extreme working conditions such as oil and gas fields.

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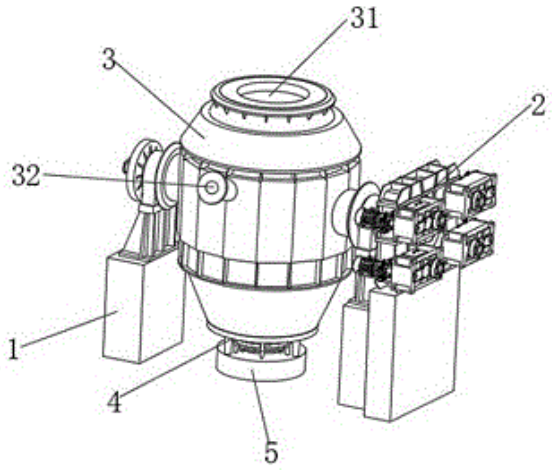
21: 2025/03134. 22: 2025/04/14. 43: 2025/06/09
51: F27B; F27D
71: BEIJING REDC PNEUMATIC CONVEYING TECHNOLOGY CO., LTD.
72: HU, WEIBO, GAO, HUI, YANG, JUN, DU, HUITONG, ZHAO, YUNJIE, PU, YONGTAO, MAO, QINGYANG, WANG, ZHEN, LU, BAOLIN
33: CN 31: 202410765237.2 32: 2024-06-14

**54: INTELLIGENT QUANTITATIVE INJECTION DEVICE FOR NON-FERROUS METAL SMELTING**

00: -

The present invention discloses an intelligent quantitative injection device for non-ferrous metal smelting, and relates to the technical field of smelting injection. The intelligent quantitative injection device includes a base; a tilting device fixed on the base; a converter rotatably disposed on the tilting device, a feeding port being formed in an upper end surface of the converter, and a discharging port being formed in a side wall of the converter; an injection assembly detachably mounted at the bottom of the converter; and a quantifying assembly mounted on a lower end surface of the injection assembly, wherein the injection assembly is connected to external gas supply equipment and cooling equipment and used for providing a gas for the interior of the converter and cooling the injection assembly, and the quantifying assembly is electrically connected to an external controller and used for controlling start and stop of the quantifying assembly.

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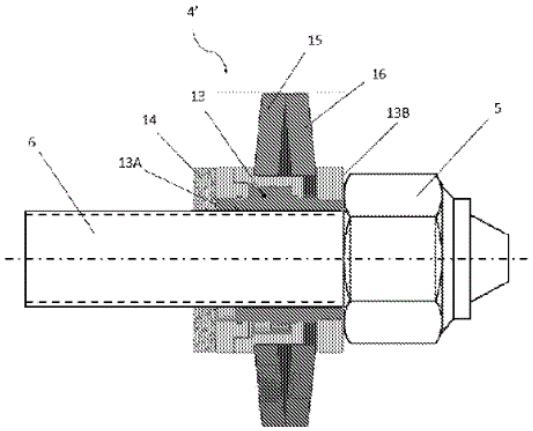
21: 2025/04050. 22: 2025/05/13. 43: 2025/07/04
51: B02C; F16B
71: ENDO ARRIAGADA, Alvaro Enrique
72: ENDO ARRIAGADA, Alvaro Enrique
33: CL 31: 3318-2022 32: 2022-11-24

**54: DEVICE FOR PREVENTING PULP SPILLS OR LEAKS FROM THE INSIDE OF MILLS, WITH A SHOCK ABSORBER**

00: -

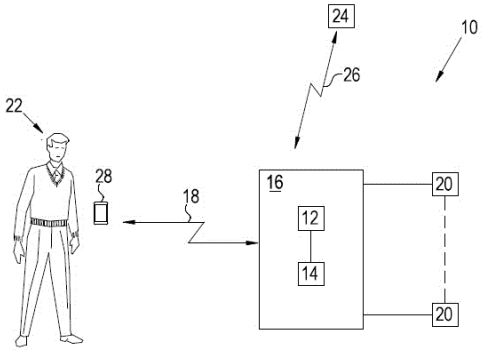
The present invention relates to a device for preventing pulp spills or leaks from the inside of mills that prevents the looseness of the fastening bolts of mill claddings and prevents the elements of the device from being launched at a high speed in the event of release or sudden failure of any of its parts. This makes it possible to maintain the tension of the fastening bolt of claddings for greater elongation between the head of the bolt in contact with the cladding and the fastening nut for fastening the bolt to the mill, further reducing the risk of accident in the event of failure.




21: 2025/05037. 22: 2025/06/13. 43: 2025/07/07
51: G06F; G06Q; G07C
71: MTSHALI, Samuel Robert
72: MTSHALI, Samuel Robert
33: ZA 31: 2025/02112 32: 2025-03-10

**54: DURESS PASSWORD SYSTEM AND METHOD FOR A BANKING APPLICATION**

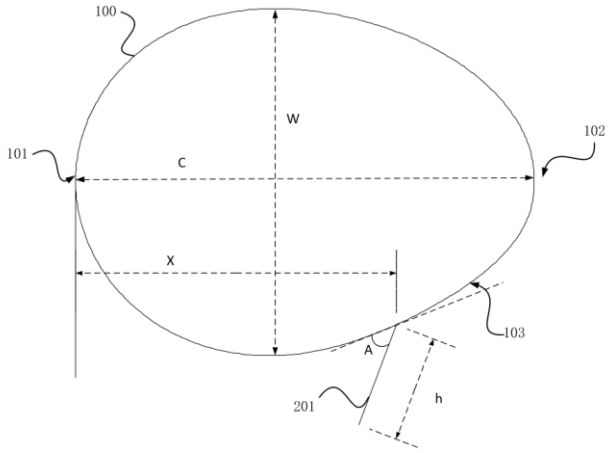
00: -
A duress password system is provided, the system comprising a processor and a memory device that stores instructions executable by the processor to receive, typically at a financial institution, a login request from a user to access a user account; and determine whether the provided login request is a default login request to access the user account, in which case the processor is arranged to retrieve and display a default profile to enable the user to transact in a normal, conventional manner, or whether the provided login request is a duress login request to access the user account, in which case the processor is arranged to retrieve and present a duress profile, which is substantially similar to the default profile, but with the processor then being further arranged to generate and send an alert signal to the financial institution.



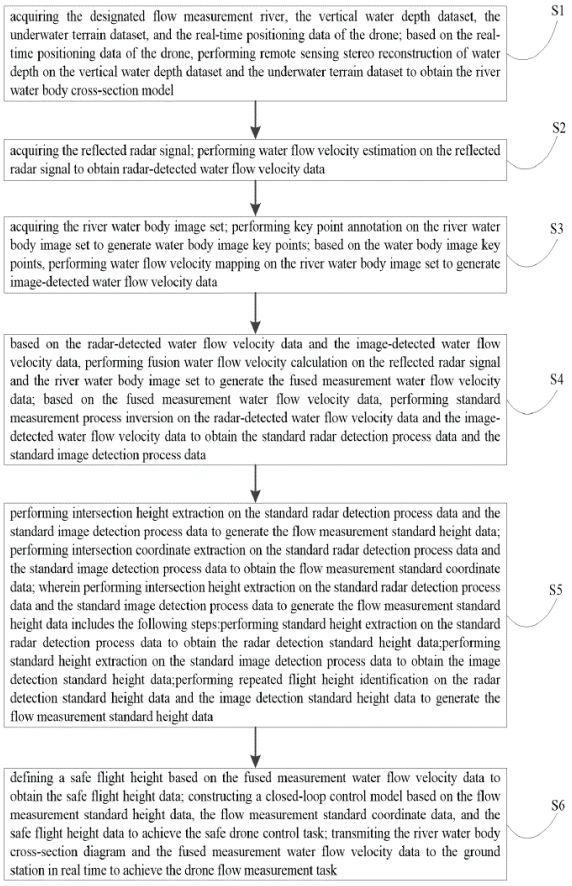

21: 2025/05042. 22: 2025/06/13. 43: 2025/07/18
51: G06F
71: SINOMA WIND POWER BLADE CO., LTD.
72: LI, Chengliang, CHEN, Delong, LI, Xingxing, REN, Wang, WU, Weiwei
33: CN 31: 202410895331.X 32: 2024-07-04

**54: WIND TURBINE BLADE AND METHOD OF DESIGNING WIND TURBINE BLADE**

00: -
The present application relates to the field of power generation, and discloses a wind turbine blade and a method of designing the wind turbine blade. The wind turbine blade includes a wind turbine blade body and a spoiler. The spoiler is arranged on a pressure face of the wind turbine blade body and extends in a length direction. A radial dimension H corresponding to at least one cross section of the spoiler and a relative thickness T of an airfoil section of the wind turbine blade body coplanar with the cross section satisfy a relationship H=m*T, so as to solve the problem that the wind turbine blade cannot meet the requirement of the ideal aerodynamic performance.

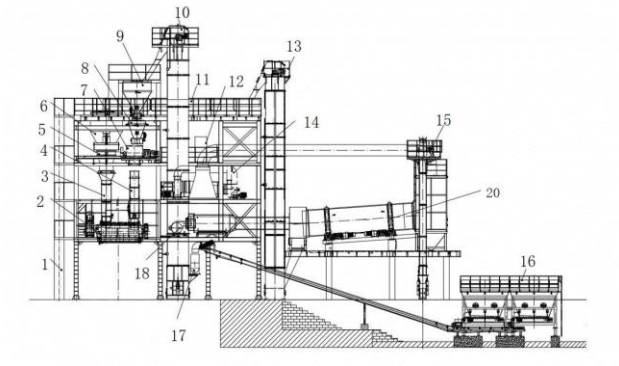



21: 2025/05201. 22: 2025/06/19. 43: 2025/06/27
51: G01F
71: Bureau of Hydrology, Changjiang Water Resources Commission
72: Junya MEI, Bo ZHOU, Shan DENG, Shifu WU, He HUANG, Ke JIA, Qiong WU, Wei GUO, Yun MOU, Zhiwei JIA, Chang PENG, Siwei JIANG, Shihan PAN, Bing ZHAO, Jian ZUO, Hongliang XU, Wenjing ZHOU
33: CN 31: 2024110492684 32: 2024-08-01
**54: MULTI-ELEMENT DRONE FLOW MEASUREMENT METHOD AND SYSTEM**
00: -
The present invention relates to the field of remote sensing hydrological measurement technology, particularly to a multi-element drone flow measurement method and system. The method includes: acquiring river data and drone positioning data to construct a three-dimensional model of the river water body, calculating water flow velocity data from radar detection and image detection respectively through the analysis of reflected radar signals and water body images, fusing the two types of flow velocity data to obtain a more reliable final flow velocity result, reconstructing the standard radar and image detection process data to optimize data acquisition, analyzing the standard flow measurement height coordinates and safe flight height to determine the standard flow measurement path and safe flight path, constructing a closed-loop control model to achieve standard and safe drone flow measurement, and transmitting the water body cross-section model and flow velocity data to the ground in real time to complete the drone flow measurement task. The present invention can achieve comprehensive acquisition, high-precision fusion, and intelligent control of multi-element flow measurement data, significantly improving the efficiency of flow measurement and the quality of data.



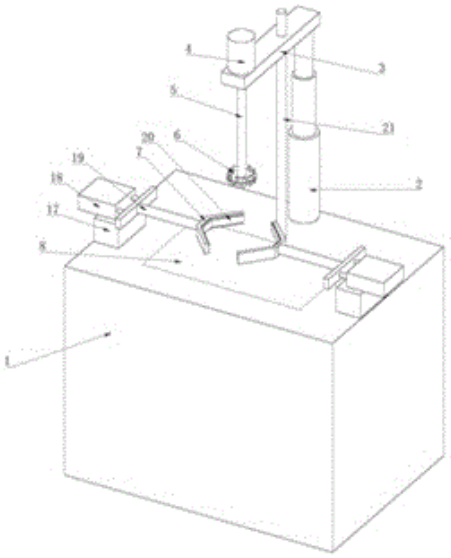

21: 2025/05599. 22: 2025/07/01. 43: 2025/07/04
51: E01C
71: Ordos Lutai New Materials Technology Development Co., Ltd., Ordos Lutai Highway Engineering Co., Ltd.
72: Zhong GAO, Zhibao LUO, Feixiang GAO, Feilin GAO
33: CN 31: 202411137664.2 32: 2024-08-19
**54: PRODUCTION PROCESS, EQUIPMENT AND SYSTEM FOR FACTORY-MIXED WARM AND HOT RECYCLED ASPHALT MIXTURE**
00: -
The present application discloses a production process, equipment and system for factory-mixed warm and hot recycled asphalt mixtures, which relates to the technical field of recycled materials. Specifically, it includes: feeding the recycled coarse aggregates and new aggregates into the hot recycled material drying drum simultaneously

through the cold material bin for heating; adding the recycled fine aggregates to the mixing cylinder of the cold recycled material mixer through the existing cold addition system for recycled materials, and then being mixed and stirred with the recycling agent after dry mixing for a certain period of time, and placing the oil-rich fine aggregates in the cold recycled material batching machine and conveyed to the cold recycled material hoist through a conveyor belt. In the present application, when the total mixing ratio of the recycled materials is 25% to 40%, it is suitable for various types of mixtures and layers; and the recycled coarse aggregates are separately heated by a recycling drum and then added, and the recycled fine aggregates are preheated and added through a special addition system. The performance of the asphalt mixture is further improved, and the total mixing ratio of the recycled materials reaches 50% to 80%, which improves the application efficiency of the recycled materials.



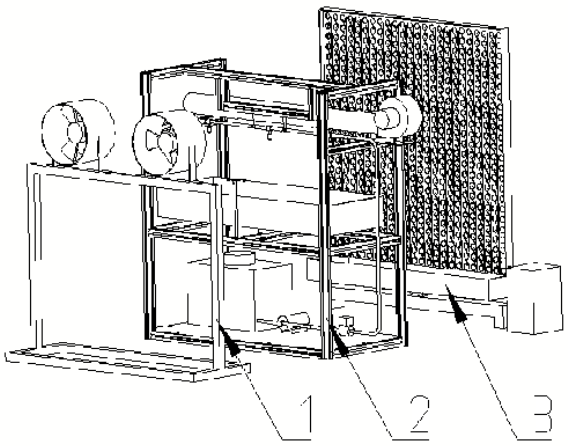

21: 2025/06078. 22: 2025/07/17. 43: 2025/07/23
51: B01F
71: FUJIAN SYSTAK ENVIRONMENTAL PROTECTION MATERIAL TECHNOLOGY CO., LTD.
72: YU, JINLONG, LIN, XIAOQING, LAN, ZHIXIN
33: CN 31: 202421957627.1 32: 2024-08-13
**54: HIGH-SPEED DISPERSING MACHINE FOR PRODUCING DEFOAMING AGENT**
00: -

The present application discloses a high-speed dispersing machine for producing a defoaming agent, and relates to the technical field of producing a defoaming agent. A high-speed dispersing machine for producing a defoaming agent includes a cabinet body, a hydraulic telescopic rod is fixed on a side of the cabinet body; a support plate is fixed on a telescopic end of the hydraulic telescopic rod; an electric motor I is fixed on the support plate; an output end of the electric motor I penetrates through the support plate and is fixedly connected to a stirring rod; a dispersing machine is fixed on a lower end of the stirring rod;two symmetrical clamping claws are provided on the cabinet body, and the clamping claws are trapezoidal; a moving plate is provided on the cabinet body; a moving groove corresponding to the moving plate is provided on the cabinet body; and an adjustment mechanism is provided between the moving plate and the cabinet body. The electric motor I is started for driving the stirring rod to rotate, the stirring rod driving the dispersing machine to stir the defoaming agent emulsion, improving the emulsification effect, facilitating the dispersion of the defoaming agent emulsion. It facilitates the adaptation to cup bodies of different heights by the adjustment mechanism, and facilitates the stirring and dispersion of the dispersing machine.




21: 2025/06080. 22: 2025/07/17. 43: 2025/07/31
51: F04D; G01M
71: SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES
72: ZHANG, Zhiqi, MA, Yuexin, WEI, Yifei, SHEN, Jingxin, WEI, Zhiming, LI, Qinglong, SUN, Yitian, CHEN, Gang
33: CN 31: 2024110368795 32: 2024-07-31
**54: SYSTEM AND METHOD FOR AIR CURTAIN ANTI-DRIFTING TESTING**
00: -

The present invention provides a system and method for air curtain anti-drifting testing, wherein the system comprises an air curtain anti-drifting device, a natural wind simulation device being located in front of the air curtain anti-drifting device and a drifting droplet capturing device being located behind the air curtain anti-drifting device; wherein, the air curtain anti-drifting device comprises a support frame being provided with an air guide pipe, an anti-drifting fan and a pesticide liquid tank, and a spraying rod; the drifting droplet capturing device comprises a mechanism bracket having a second weighing device being arranged thereon, a liquid collecting tank being arranged on a weighing surface of the second weighing device and a droplet capturing plate; the droplet capturing plate is installed on an upper part of the liquid collecting tank, and the liquid collecting tank is capable of collecting droplets captured by the droplet capturing plate.

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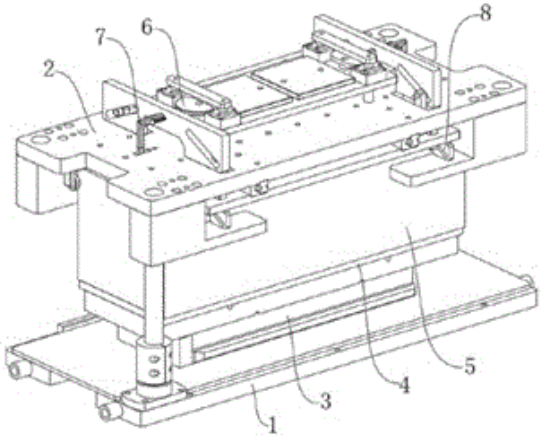
51: B28D
71: WUXI ZHANZHAO PRECISION MACHINERY TECHNOLOGY CO., LTD.
72: LI, LEI, LI, LIANG, ZHOU, JIANLONG
33: CN 31: 202411580100.6 32: 2024-11-07
**54: THREE-IN-ONE BONDING AND POSITIONING DEVICE FOR PHOTOVOLTAIC SILICON RODS**
00: -

The present invention relates to the technical field of photovoltaic silicon rods, and discloses a three-in-one bonding and positioning device for photovoltaic silicon rods, including a support assembly, a positioning assembly, a spacing mechanism, a limiting mechanism, a marking mechanism, a crystal holder, a plastic plate and a silicon rod body, wherein the support assembly includes a rod bonding fixture, a fixing seat, a positioning column, a first positioning block, a fixture base plate and a second positioning block, the fixing seat is mounted on the top of the rod bonding fixture, the positioning column is mounted on the top of the fixing seat, and the first positioning block and the second positioning block are both fixedly connected to the top of the rod bonding fixture. The present invention is small in size and can be transported on the conveying table of the production line, and assembled on the conveying table of the production line at the same time. During the assembly process, the crystal holder, the plastic plate and the silicon rod can be placed, and at the same time, the three can be guided and positioned, and the counterweight can be used to press them together, so that the bonding between the crystal holder, the plastic plate and the silicon rod is completed in the transportation process of the conveying table, which improves the working efficiency.

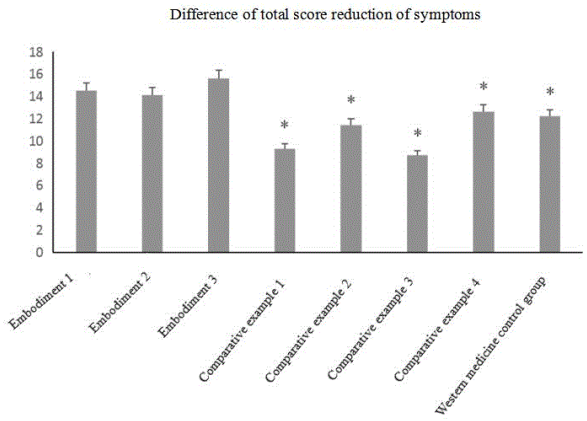



21: 2025/06203. 22: 2025/07/22. 43: 2025/07/23
51: A61K; A61P
71: The First Affiliated Hospital of Henan University of CM
72: YAN Kuipo, ZHU Cuiling, SUN Yanqin, LIU Gang, DU Mingyuan, LI Yizhuo, XU Yazhou, YAN Haifeng, LI Xiaohui
33: CN 31: 2023118151927 32: 2023-12-27
**54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR REDUCING BLOOD PRESSURE AND PREPARATION METHOD**

**THEREFOR AND PHARMACEUTICAL USE THEREOF**

00: -

Provided is a traditional Chinese medicine composition for reducing blood pressure, which is prepared from the following active pharmaceutical ingredients in parts by weight: 20-35 parts of Uncaria rhynchophylla, 15-30 parts of Laggera pterodonta, 10- 30 parts of Rubus sachalinensis, 15-30 parts of Chinese yam, 10-15 parts of Erigeron breviscapus, and 5-15 parts of Tetrapanax papyrifer. The preparation method comprises: crushing part of the active pharmaceutical ingredients into medicinal powder, preparing medicinal juice from the remaining active pharmaceutical ingredients, uniformly mixing the pharmaceutical juice with the pharmaceutical powder, forming the mixture into strips, kneading into pills, and air-drying. Also provided is use of the traditional Chinese medicine composition in preparing a drug for preventing and treating hypertension diseases.

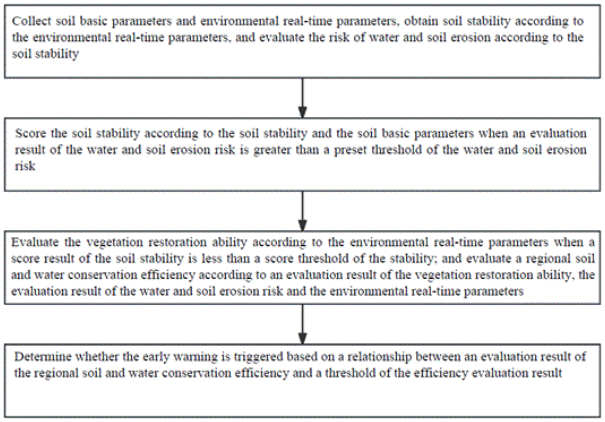



21: 2025/06268. 22: 2025/07/24. 43: 2025/08/08
51: G06F
71: HOHAI UNIVERSITY
72: Daming Yang, Dongli She, Xuan Huang, Xiaoqin Sun, Hongde Wang
33: CN 31: 2025102837108 32: 2025-03-11

**54: SYSTEM AND METHOD FOR MONITORING SOIL AND WATER CONSERVATION**

00: -

The present invention provides a system and method for monitoring soil and water conservation. The method includes the steps of: collecting soil basic parameters and environmental real-time parameters, calculating soil stability, and evaluating the soil and water erosion risk according to the soil stability; scoring the soil stability according to the soil stability and the soil basic parameters; evaluating vegetation restoration ability; and evaluating a regional soil and water conservation efficiency by combining the soil and water erosion risk and the vegetation restoration ability; and determining whether the early warning is triggered according to an evaluation result of the soil and water conservation efficiency. In the present invention, by introducing a multi-dimensional evaluation mechanism including soil stability, stability score, vegetation restoration ability and the like, an accurate and dynamic monitoring solution for soil and water conservation is provided, having high real-time, reliability and application value.



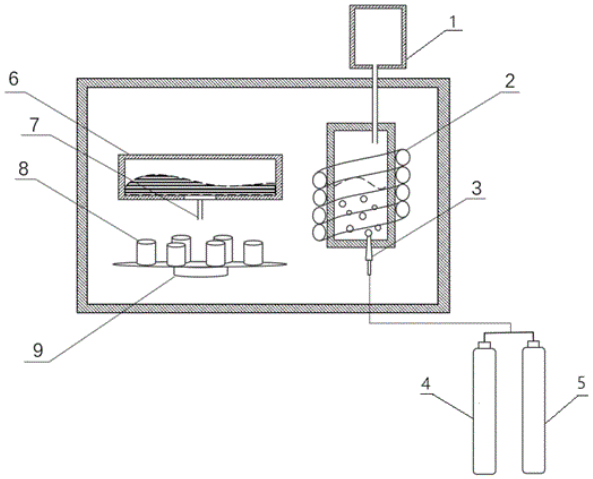

21: 2025/06299. 22: 2025/07/25. 43: 2025/07/31
51: B22D; C21C; C22C
71: HEBEI UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: HAN, Baochen, WANG, Xuyang, LI, Yaqiang, SUN, Xiaoyi, LIU, Dan, MA, Dongxiao
33: CN 31: 202411008395.X 32: 2024-07-26

**54: MELTING APPARATUS AND METHOD FOR ULTRA-HIGH PURITY METALLIC GLASS INGOT**

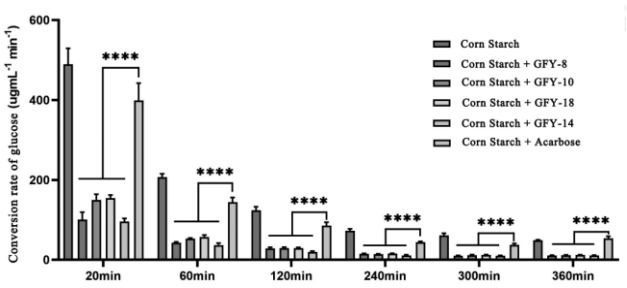
00: -

A melting apparatus and method for ultra-high purity metallic glass ingot belongs to melting technical field. The melting apparatus includes a vacuum chamber, an induction heating device (2), a vacuum charging hopper (1), a gas tank, a tundish (6) and a vibrating pouring platform (9). The interior of the vacuum chamber contains a vacuum cavity where the induction heating device (2) is located. The vacuum charging hopper (1) is connected to the top of the induction heating device (2), and the gas tank is connected to the bottom. The tundish (6) is

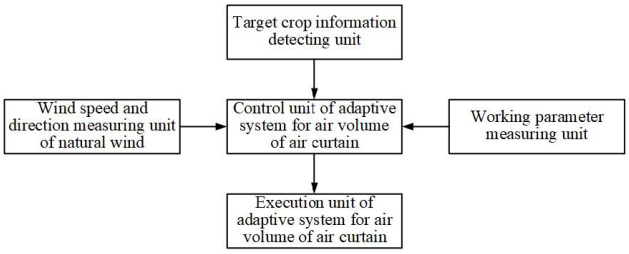
located in the vacuum cavity and on one side of the induction heating device (2). The bottom of the tundish (6) is connected to a draft tube (7). The vibrating pouring platform (9) is located below the tundish (6) and moulding crucibles (8) are located on the vibrating pouring platform (9).




21: 2025/06315. 22: 2025/07/28. 43: 2025/07/31
51: C07D
71: China Agricultural University
72: ZHAO Liang, WANG Xiaoyu, ZHANG Hao, GUO Fengyu, WANG Pengjie, ZHANG Weibo, CHEN Chong, WANG Ran, LIU Siyuan
33: CN 31: 202411036568.9 32: 2024-07-31
**54: COMPOUND WITH A-GLUCOSIDASE INHIBITORY ACTIVITY AND APPLICATION THEREOF**
00: -
The present invention belongs to the technical field of chemical drugs, and specifically to a compound with a-glucosidase inhibitory activity and application thereof. 5-hydroxymethyl-8-methyl-2-(N-arylamino)-pyrano[2,3-c]pyridine-3-(N-aryl)-formamide series compound is provided, possessing a structure in General formula (I). Compared with compounds with anti-diabetes activity in general sense, the compound with the strong anti-diabetes activity of the present disclosure has the apparently more important application value.

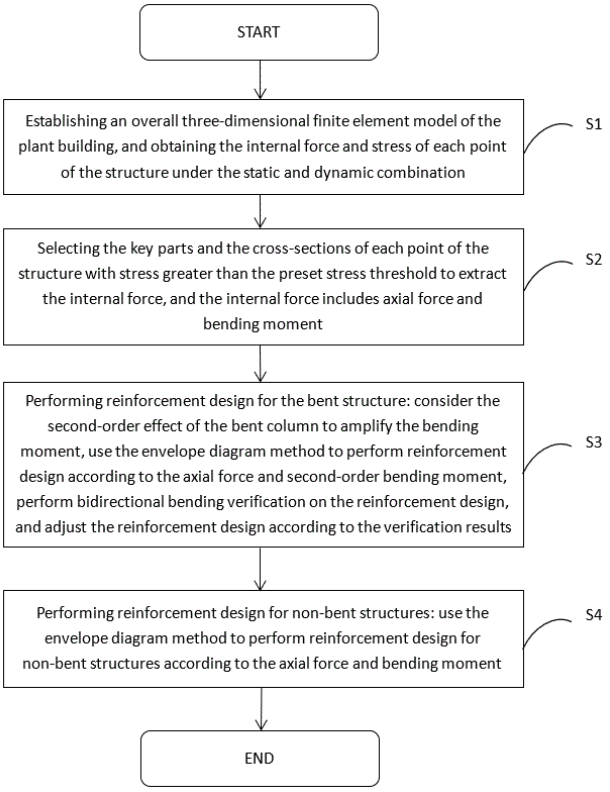



21: 2025/06399. 22: 2025/07/30. 43: 2025/07/31
51: A01M; G01D; G05B
71: SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES
72: ZHANG, Zhiqi, LI, Jiankun, WEI, Zhiming, SHEN, Jingxin, LI, Qinglong, SUN, Yitian, CHEN, Gang, LI, Rui
33: CN 31: 2024116378930 32: 2024-11-15
**54: ADAPTIVE REGULATING SYSTEM AND METHOD FOR AIR VOLUME OF AIR CURTAIN BOOM SPRAYER**
00: -
An adaptive regulating system for an air volume of an air curtain boom sprayer, comprising: a control unit; a target crop information detecting unit; a wind speed and direction measuring unit; and a working parameter measuring unit, configured to measure a wheel rotating speed of the boom sprayer, an actual air volume of air curtain, and send the same to the control unit; the control unit obtains a theoretical value of optimal air volume of air curtain based on received crop information of target crops, wind speed and direction of natural wind, wheel rotating speed of the boom sprayer and actual air volume of air curtain, generates an optimal control parameter of air volume of air curtain, and transmits the theoretical value of optimal air volume of air curtain and the optimal control parameter of air volume of air curtain to an air volume execution unit of air curtain.



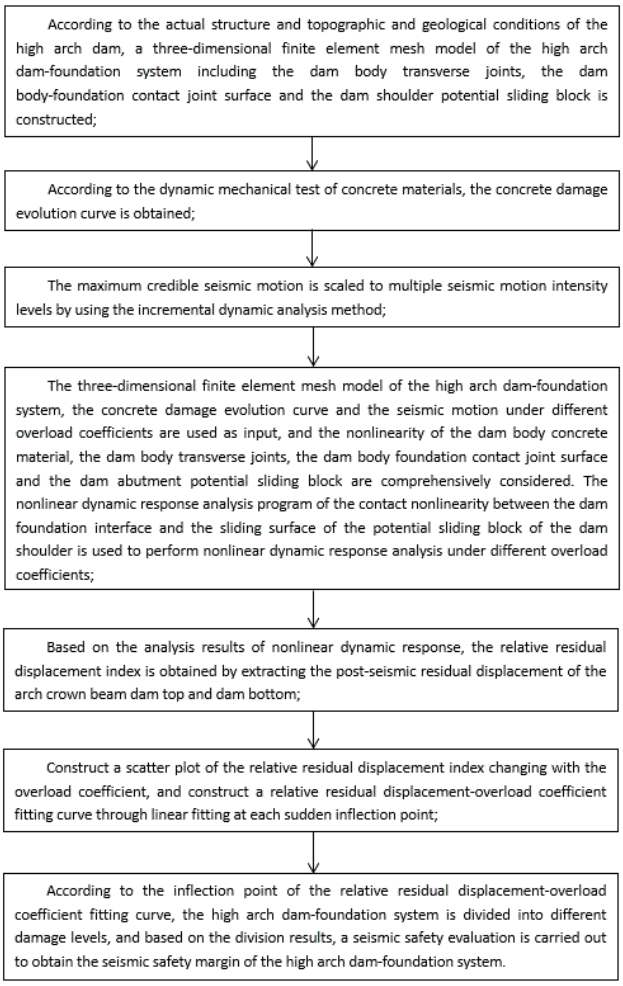

21: 2025/06507. 22: 2025/08/01. 43: 2025/08/18
51: G06F

71: China Institute of Water Resources and Hydropower Research
72: LIU, Biao, GUO, Shengshan, LI, Zhiyuan, ZHAO, Jianjun, LIANG, Hui, YAN, Chunli, ZHAO, Zongguo, TU, Jin, ZHONG, Hong, WANG, Shaoqing, ZHAO, Lijun, DENG, Guanglian, XU, Yonghui
33: CN 31: 202411512147.9 32: 2024-10-28
**54: THREE-DIMENSIONAL FINITE ELEMENT STATIC AND DYNAMIC ANALYSIS REINFORCEMENT CALCULATION METHOD FOR A HYDROPOWER PLANT**
00: -
The invention discloses a three-dimensional finite element static and dynamic analysis reinforcement calculation method for a hydropower station plant, comprising the following steps: S1, establishing an overall three-dimensional finite element model of the plant, and obtaining the internal force and stress of each point of the structure under static and dynamic combination; S2, selecting key parts and cross sections of each point of the structure with stress greater than a preset stress threshold to extract internal forces, wherein the internal forces include axial forces and bending moments; S3, performing reinforcement design for a bent structure: considering the second-order effect of the bent column to amplify the bending moment, adopting an envelope diagram method to perform reinforcement design according to the axial force and the second-order bending moment, performing a bidirectional bending check on the reinforcement design, and adjusting the reinforcement design according to the check result; S4: performing reinforcement design for a non-bent structure: adopting an envelope diagram method to perform reinforcement design for the non-bent structure according to the axial force and the bending moment.




21: 2025/06508. 22: 2025/08/01. 43: 2025/08/18
51: G06F
71: China Institute of Water Resources and Hydropower Research
72: YAN, Chunli, LIANG, Hui, TU, Jin, GUO, Shengshan, LI, Deyu, ZHONG, Hong, LIU, Biao, ZHANG, Cuiran
33: CN 31: 202411417667.1 32: 2024-10-11
**54: SEISMIC SAFETY EVALUATION METHOD**
00: -
The present invention provides a seismic safety evaluation method, which relates to the field of seismic safety evaluation of high arch dams. A finite element mesh model that is more in line with the actual situation and comprehensively considers the coupling of dam body damage and potential sliding block sliding instability failure of the dam abutment is established. The concrete damage evolution curve is obtained based on the dynamic mechanical test of concrete materials, and the maximum credible seismic motion is scaled to multiple seismic motion intensity levels according to a certain proportion by an incremental dynamic analysis method. A series of nonlinear dynamic response analyses under different overload coefficients are carried out. According to the analysis results, a seismic

performance evaluation index that is easier to monitor in actual engineering and can comprehensively characterize the coupling of two failure modes is proposed. A fitting curve of the relative residual displacement changing with the overload coefficient is established, and a method for quantitatively dividing different damage levels is proposed. The development of seismic safety evaluation of high arch dam-foundation system from considering only a single failure mode to comprehensively considering the coupling of multiple failure modes is carried out and promoted.

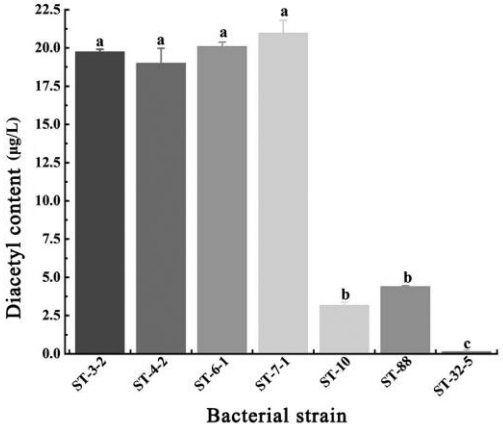



21: 2025/06509. 22: 2025/08/01. 43: 2025/08/07
51: C12Q
71: China Agricultural University
72: ZHAO Liang, ZHANG Hao, WANG Ran, GE Shaoyang, LI Xiaoxia, SANG Yue, WANG Pengjie, FENG Haihong, ZHAO Zhi, FANG Bing, YANG Jianjun
33: CN 31: 2024110546538 32: 2024-08-02

**54: METHOD FOR SCREENING AROMA-PRODUCING STREPTOCOCCUS SALIVARIUS THERMOPHILUS BASED ON DIACETYL REDUCTASE**

00: -

The present invention belongs to the technical field of microbiology and genetic engineering, and specifically to a method for screening aroma-producing streptococcus salivarius thermophilus based on diacetyl reductase. The present disclosure firstly directed-screens the high-aroma-producing streptococcus salivarius thermophilus with the high expression of a gene butA, and subsequently, strains with the high expression of the gene butA undergo diacetyl production detection, to verify the aroma-producing ability of the streptococcus salivarius thermophilus; compared with traditional screening methods, the present disclosure has the features of efficient and specific screening, and the defects of simplicity and non-specific screening in the traditional screening methods are avoided.



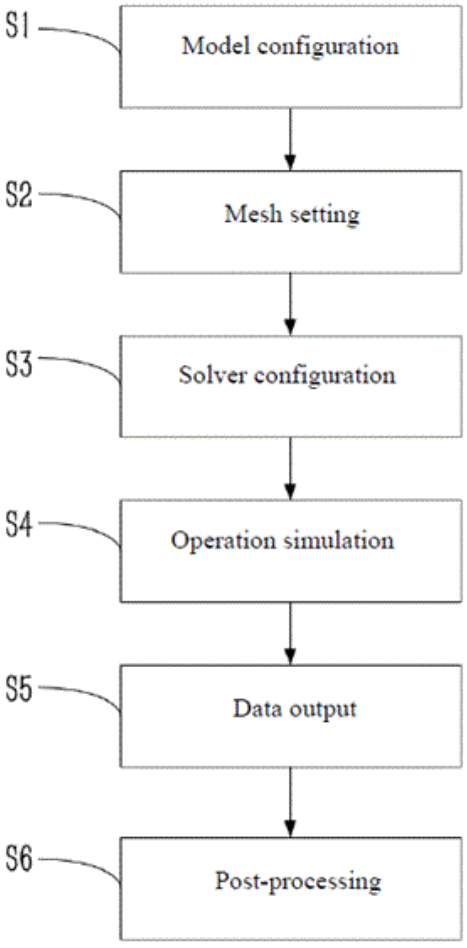

21: 2025/06572. 22: 2025/08/05. 43: 2025/08/07
51: E21B
71: Ocean University of China
72: Liu, Ze, Lu, Kaiyue, Liu, Yifeng, You, Yixun, Shu, Pengcheng, Wang, Pengcheng, Zhang, He, Lin, Haona, Li, Yanxi
33: CN 31: 2025106188313 32: 2025-05-14

**54: THREE-DIMENSIONAL GEOSTRESS NUMERICAL SIMULATION METHOD BASED ON DEEP-SHALLOW DYNAMIC BIDIRECTIONAL COUPLING**

00: -

Disclosed is a three-dimensional (3D) geostress numerical simulation method based on deep-shallow dynamic bidirectional coupling. The method

includes: constructing a 3D geometric model of a target area and configuring elastoplastic rheological parameters of deep rocks and a shallow erosion rate equation; generating a deep unstructured mesh and a shallow irregular mesh, and setting adaptive time step control; configuring a nonlinear solver to solve a thermo-mechanical coupling equation in stages, and completing cross-scale data transmission through bilinear interpolation; outputting a material property field, pressure field and strain rate field; and converting results to a standardized format and visually labeling a stress concentration area. In the present invention, the synchronous simulation of structural drive and surface response is realized through a dynamic deep-shallow bidirectional coupling mechanism, and the simulation accuracy and the engineering applicability of crustal dynamic evolution are significantly improved.

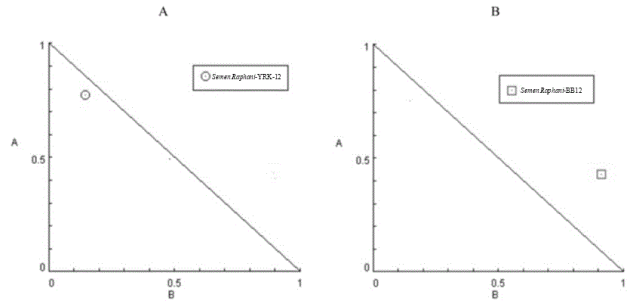



21: 2025/06667. 22: 2025/08/08. 43: 2025/08/18

51: C12N
71: China Agricultural University
72: ZHAO Liang, LI Yixuan, WANG Ran, GE Shaoyang, LI Xiaoxia, SANG Yue, WANG Pengjie
33: CN 31: 202411081342.0 32: 2024-08-08

**54: COMPOSITION OF BIFIDOBACTERIUM ANIMALIS AND SEMEN RAPHANI FOR SYNERGISTIC PREVENTION AND TREATMENT OF FUNCTIONAL CONSTIPATION**

00: -
Disclosed is a composition of Bifidobacterium animalis and Semen Raphani for synergistic prevention and treatment of functional constipation. The Bifidobacterium animalis is named YRK-12, deposited in the China General Microbiological Culture Collection Center (CGMCC), with a deposit number of CGMCC NO.28597, and a deposit date of October 9, 2023. According to the present invention, Bifidobacterium animalis and Semen Raphani have potential interaction, can cooperate with each other, can exert synergistic effect, provide reference indexes for industrial production of the probiotic and traditional Chinese medicine extract compound composition by increasing the number of fecal pellets and fecal water content, reducing defecation time and improving the small intestinal propulsion rate, and also provide theoretical basis and data support for the popularization and application of the probiotic and traditional Chinese medicine extract compound composition in the field of prevention and treatment functional constipation.



## HYPOTHECATIONS

No records available

## JUDGMENTS

No records available

## OFFICE PRACTICE NOTICES

No records available

# 3. DESIGNS

## DESIGNS

### APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993

The particulars appear in the following sequence: Copies of the application and representations cannot be supplied until application is registered and advertised. In all correspondence reference should be made to the number of the application. Application number, full name of applicant, class, articles to which design is to be applied and priority date (if any)

. - APPLIED ON 2025/07/24 -

A2025/00877 - WAHL CLIPPER CORPORATION Class 28. HAIR CLIPPER

A2025/00887 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH BRISTLE

A2025/00885 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00886 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00879 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00878 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00881 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00884 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00888 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH BRISTLES

F2025/00875 - MCDOUALL, Francis, John, Stephen Class 7. A ROASTING OR BAKING LINER

A2025/00876 - WAHL CLIPPER CORPORATION Class 28. HAIR CLIPPER

A2025/00883 - TANGLE TEEZER LIMITED Class 04. HAIR BRUSH

A2025/00889 - TANGLE TEEZER LIMITED Class 04. HAIR BRUSH BRISTLES

A2025/00882 - TANGLE TEEZER LIMITED Class 04. HAIR BRUSH BRISTLE

A2025/00891 - TANGLE TEEZER LIMITED Class 04. HAIR BRUSH

A2025/00890 - TANGLE TEEZER LIMITED Class 04. HAIR BRUSH

A2025/00880 - TANGLE TEEZER LIMITED Class 04. HAIR BRUSH

. - APPLIED ON 2025/07/25 -

A2025/00892 - Joslyn Goliath Class 21. THE ARTICLE COMPRISES A TOY FIGURINE IN THE FORM OF A STYLISED HUMAN CHARACTER, DESIGNED TO INTERACT WITH A COMPATIBLE TOY VEHICLE AS PART OF A LARGER PLAY EXPERIENCE. THE FIGURINE IS SHAPED TO APPEAL TO CHILDREN, WITH SAFE CONTOURS AND A FRIENDLY, NEUTRAL EXPRESSION. IT IS INTENDED FOR IMAGINATIVE PLAY AND COLLECTION, PARTICULARLY IN THE CONTEXT OF TOY CAR SPINNING ACTIVITIES.

. - APPLIED ON 2025/07/28 -

A2025/00899 - SWEDISH MATCH NORTH EUROPE AB Class 27. CONTAINER FOR NICOTINE POUCHES

A2025/00897 - SWEDISH MATCH NORTH EUROPE AB Class 27. CONTAINER FOR NICOTINE POUCHES

A2025/00895 - SWEDISH MATCH NORTH EUROPE AB Class 32. ORNAMENTATION, GRAPHIC SYMBOL, SURFACE PATTERN, LOGO, LABEL AND/OR GRAPHIC DESIGN FOR A CONTAINER FOR NICOTINE POUCHES

A2025/00898 - SWEDISH MATCH NORTH EUROPE AB Class 27. CONTAINER FOR NICOTINE POUCHES OR ORNAMENTATION FOR CONTAINERS

A2025/00896 - SWEDISH MATCH NORTH EUROPE AB Class 27. CONTAINER FOR NICOTINE POUCHES OR ORNAMENTATION FOR CONTAINERS

A2025/00900 - SANSPAR ENGINEERING (PTY) LTD. Class 23. PIPE REPAIR CLAMP

A2025/00893 - SWEDISH MATCH NORTH EUROPE AB Class 32. ORNAMENTATION, GRAPHIC SYMBOL, SURFACE PATTERN, LOGO, LABEL AND/OR GRAPHIC DESIGN FOR A CONTAINER FOR NICOTINE POUCHES

A2025/00894 - SWEDISH MATCH NORTH EUROPE AB Class 27. ORNAMENTATION FOR A CONTAINER FOR NICOTINE POUCHES OR PART OF A CONTAINER FOR NICOTINE POUCHES

. - APPLIED ON 2025/07/29 -

A2025/00905 - CHEMO RESEARCH, S.L. Class 24. INHALER

A2025/00902 - Turlen Holding SA Class 10. WATCH MOVEMENTS

A2025/00901 - Turlen Holding SA Class 10. WATCHES

A2025/00903 - Sandvik Mining and Construction Oy Class 15. LOADERS

F2025/00904 - Sandvik Mining and Construction Oy Class 15. LOADERS

. - APPLIED ON 2025/07/30 -

A2025/00906 - PRPLX MEDIA (PTY) LTD Class 27. INHALATION DEVICE

F2025/00907 - PRPLX MEDIA (PTY) LTD Class 27. INHALATION DEVICE

A2025/00908 - LITEHOUSE LIGHTING LLC Class 26. A LANTERN

. - APPLIED ON 2025/07/31 -

F2025/00910 - ORICA INTERNATIONAL PTE LTD Class 22. EXPLOSIVE BOOSTER ASSEMBLY

A2025/00912 - BETRAM (PROPRIETARY) LIMITED Class 23. ABLUTION BLOCKS

F2025/00915 - CONVEQUIP TECHNOLOGIES (PTY) LTD Class 15. BEARING CONTAINER FOR A CONVEYOR ROLLER ASSEMBLY

F2025/00911 - NEIZANNE (PTY) LTD Class 08. SHANK OF A DOWN-THE-HOLE DRILL BIT

F2025/00914 - CONVEQUIP TECHNOLOGIES (PTY) LTD Class 12. AXLE FOR A CONVEYOR ROLLER ASSEMBLY

A2025/00909 - ORICA INTERNATIONAL PTE LTD Class 22. EXPLOSIVE BOOSTER ASSEMBLY

F2025/00913 - BETRAM (PROPRIETARY) LIMITED Class 23. ABLUTION BLOCKS

. - APPLIED ON 2025/08/04 -

A2025/00916 - TS GALAXY FOOTBALL CLUB (PTY)LTD Class 02. A GARMENT

F2025/00919 - Polyoak Packaging (Pty) Ltd Class 09. BOTTLE

A2025/00918 - Polyoak Packaging (Pty) Ltd Class 09. BOTTLE

A2025/00917 - Stacey Pellis Class 11. AFRICA'S BIG 5 DIAMONDS DESIGN

. - APPLIED ON 2025/08/05 -

A2025/00921 - Eilun Verwaltungsgesellschaft mbH Class 9. BOTTLES

F2025/00925 - FTS TANKS (PTY) LTD. Class 23. A FUNNEL

F2025/00924 - VAN WYK, Wiaan Class 12. A RADIUS ARM

A2025/00922 - Eilun Verwaltungsgesellschaft mbH Class 9. BOTTLES WITH REMOVABLY INSERTABLE ELEMENTS

A2025/00923 - Funki Lines (Pty) Ltd Class 7. A CONTAINER FOR A COOLER BOX

. - APPLIED ON 2025/08/06 -

A2025/00926 - GOVENDER, Logandran Class 19. LICENCE DISC HOLDER

F2025/00927 - GOVENDER, Logandran Class 19. LICENCE DISC HOLDER

. - APPLIED ON 2025/08/07 -

A2025/00928 - OCIN PRODUCTS, S.L Class 12. VEHICLE LIGHT TRIM

F2025/00937 - VICTAULIC COMPANY Class 23. FITTING

F2025/00935 - VICTAULIC COMPANY Class 23. FITTING

F2025/00938 - VICTAULIC COMPANY Class 23. FITTING

A2025/00933 - VICTAULIC COMPANY Class 23. FITTING

A2025/00930 - FERRARI S.P.A. Class 21. TOY CAR

A2025/00934 - VICTAULIC COMPANY Class 23. FITTING

A2025/00929 - FERRARI S.P.A. Class 12. CAR

A2025/00931 - HYBERNON (PTY) LTD Class 14. DISPLAY SCREEN WITH A GRAPHICAL USER INTERFACE

A2025/00932 - VICTAULIC COMPANY Class 23. FITTING

A2025/00936 - VICTAULIC COMPANY Class 23. FITTING

F2025/00939 - VICTAULIC COMPANY Class 23. FITTING

. - APPLIED ON 2025/08/08 -

A2025/00956 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH ANIMATED GRAPHICAL USER INTERFACES

F2025/00962 - VICTAULIC COMPANY Class 23. PIPE ELEMENT

F2025/00944 - VICTAULIC COMPANY Class 23. FITTING

A2025/00940 - VICTAULIC COMPANY Class 23. FITTING

F2025/00949 - VICTAULIC COMPANY Class 23. PIPE ELEMENT

A2025/00947 - VICTAULIC COMPANY Class 23. PIPE ELEMENT

F2025/00951 - VICTAULIC COMPANY Class 23. PIPE ELEMENT

A2025/00957 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH ANIMATED GRAPHICAL USER INTERFACES

F2025/00952 - VICTAULIC COMPANY Class 23. FITTING

A2025/00961 - VICTAULIC COMPANY Class 23. PIPE ELEMENT

A2025/00960 - VICTAULIC COMPANY Class 23. PIPE ELEMENT

F2025/00963 - VICTAULIC COMPANY Class 23. PIPE ELEMENT

F2025/00953 - VICTAULIC COMPANY Class 23. FITTING

A2025/00950 - VICTAULIC COMPANY Class 23. FITTING

A2025/00941 - VICTAULIC COMPANY Class 23. FITTING

A2025/00958 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

A2025/00955 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH ANIMATED GRAPHICAL USER INTERFACES

A2025/00943 - ARCTIC APE ICE BATHS (PTY) LTD Class 04. A SAUNA

A2025/00954 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

A2025/00948 - VICTAULIC COMPANY Class 23. FITTING

F2025/00945 - STRUCTURE CENTER (PTY) LTD Class 23. A CORRUGATED SHEET

A2025/00959 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

F2025/00942 - VICTAULIC COMPANY Class 23. FITTING

A2025/00946 - VICTAULIC COMPANY Class 23. PIPE ELEMENT

. - APPLIED ON 2025/08/11 -

A2025/00964 - SCREENDEX (PTY) LTD. Class 15. SCREEN PANEL

. - APPLIED ON 2025/08/12 -

A2025/00972 - AGI SURETRACK LLC Class 10. SENSOR

A2025/00965 - STEPHINA JOHANNA HEATH Class 19. TAPE DISPENSER

A2025/00973 - AGI SURETRACK LLC Class 10. SENSOR

F2025/00966 - Greenfish Sushi CC Class 09. SUSHI BOX

A2025/00975 - FLENDER INDUSTRIEGETRIEBE GMBH Class 15. GEARBOX HOUSING

A2025/00974 - FLENDER INDUSTRIEGETRIEBE GMBH Class 15. GEARBOX HOUSING

A2025/00970 - AGI SURETRACK LLC Class 10. SENSOR

A2025/00967 - GreenFish Sushi CC Class 09. SUSHI BOX

A2025/00969 - AGI SURETRACK LLC Class 10. SENSOR

A2025/00968 - Greenfish Sushi CC Class 32. SUSHI BOX

A2025/00971 - AGI SURETRACK LLC Class 10. SENSOR

. - APPLIED ON 2025/08/13 -

F2025/00978 - Ryk Eksteen Inc Class 24. TRIGGER POINT DEVICE

F2025/00979 - JJ Govender Class 25. THE AFRICAN TRIBAL SOLAR-POWERED TELECOM TOWERS

A2025/00977 - FERRARI S.P.A. Class 21. TOY CAR

A2025/00976 - FERRARI S.P.A. Class 12. CAR

. - APPLIED ON 2025/08/14 -

A2025/00980 - Hemro International AG Class 31. GRINDERS

. - APPLIED ON 2025/08/15 -

A2025/00985 - SIKHOSANA, Sifiso Brian Class 7. A SHOE RACK

A2025/00994 - ROLEX SA Class 10. WATCH DIAL

A2025/00990 - ROLEX SA Class 10. WATCH DIAL

A2025/00993 - ROLEX SA Class 10. WATCH BRACELET

A2025/00983 - DURBAN UNIVERSITY OF TECHNOLOGY Class 3. BAGS

A2025/00987 - ROLEX SA Class 10. WATCH

A2025/00981 - UVEX ARBEITSSCHUTZ GMBH Class 16. SAFETY GOGGLES

F2025/00984 - DURBAN UNIVERSITY OF TECHNOLOGY Class 3. BAGS

A2025/00988 - ROLEX SA Class 10. WATCH HANDS

A2025/00992 - ROLEX SA Class 10. TABLE CLOCK

F2025/00995 - APL CARTONS (PTY) LTD Class 09. CONTAINER

A2025/00989 - ROLEX SA Class 10. WATCH CASE

A2025/00982 - Hein Duvenhage Class 31. ARABLE SPROUT

A2025/00986 - ROLEX SA Class 10. WATCH BRACELET

A2025/00991 - ROLEX SA Class 10. WATCH DIAL

. - APPLIED ON 2025/08/18 -

A2025/00996 - URSULA MAROUN Class 09. BOTTLE HOLDER

F2025/00997 - JOHN LESLIE REID, WILLIAM ALLAN KINNEAR Class 25. REBAR SUPPORT

. - APPLIED ON 2025/08/20 -

A2025/01010 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

F2025/01005 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

A2025/01011 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

A2025/01004 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

F2025/01013 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

A2025/01008 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

A2025/00998 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

F2025/01003 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

A2025/01000 - SWANEPOEL, Daniel, Coenraad Class 7. A COOKING APPARATUS

F2025/01012 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

F2025/01009 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

A2025/01002 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

F2025/01007 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

A2025/01006 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

F2025/01001 - SWANEPOEL, Daniel, Coenraad Class 7. A COOKING APPARATUS

F2025/00999 - ZIBO CONTAINERS (PTY) LTD Class 09. CONTAINER

. - APPLIED ON 2025/08/21 -

F2025/01021 - Fluidra Waterlinx (Pty) Ltd Class 23. A VACUUM LID FOR A POOL WEIR ASSEMBLY

A2025/01023 - Fluidra Waterlinx (Pty) Ltd Class 23. A FACEPLATE FOR A POOL WEIR ASSEMBLY

A2025/01022 - Fluidra Waterlinx (Pty) Ltd Class 23. A DECK LID AND COMPLEMENTAL SOCKET FOR A POOL WEIR ASSEMBLY

F2025/01025 - Fluidra Waterlinx (Pty) Ltd Class 23. LOWER PART OF A BODY FOR A POOL WEIR ASSEMBLY

A2025/01024 - Fluidra Waterlinx (Pty) Ltd Class 23. A BASKET FOR A POOL WEIR ASSEMBLY

A2025/01019 - Crocs, Inc. Class 2. FOOTWEAR

F2025/01015 - DE VILLIERS, Marius de Wet Class 25. EXTRUSION

A2025/01014 - DE VILLIERS, Marius de Wet Class 25. EXTRUSION

F2025/01020 - DE VILLIERS, Marius de Wet Class 25. EXTRUSION

A2025/01018 - DE VILLIERS, Marius de Wet Class 25. EXTRUSION

F2025/01017 - DE VILLIERS, Marius de Wet Class 25. EXTRUSION

A2025/01016 - DE VILLIERS, Marius de Wet Class 25. EXTRUSION

## RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

Notice is hereby given that: **DANE CHURCH of 3RD Road, Little Falls, Roodepoort** has made application for the restoration of the design registered to the said: **DANE CHURCH** for the Design: **SPORT FIGURINE** application number: **A2020/00285** date: **04/03/2020** which become void on **04/03/2024** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

**Registrar of Designs**

Notice is hereby given that: **DANE CHURCH of 3RD Road, Little Falls, Roodepoort** has made application for the restoration of the design registered to the said: **DANE CHURCH** for the Design: **SPORT FIGURINE**. application

number: **A2020/00286** date: **04/03/2020** which become void on **04/03/2024** due to non-payment of the prescribed renewal fee.

Any person may give notice on Design Form No 11 of opposition to restoration of the design within two months of the advertisement hereof.

**Registrar of Designs**

## VOLUNTARY SURRENDER OF A DESIGN IN TERMS OF SECTION 34 REGULATION 42(4) OF THE DESIGN ACT

F2023/01192 In the Name of INNOLIFE (PTY) LTD

A2023/01193 In the Name of INNOLIFE (PTY) LTD

A2023/01202 In the Name of INNOLIFE (PTY) LTD

A2025/00382 In the Name of INNOLIFE (PTY) LTD

F2025/00383 In the Name of INNOLIFE (PTY) LTD

## APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

REPUBLIC OF SOUTH AFRICA

DESIGNS ACT, No. 195 OF 1993

APPLICATIONS TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION (SECTIONS 26, 27/REGULATION 41)

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 1 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 1

Design No. : A2025/00880

Applicant : Tangle Teezer Limited

Class : 04

Article to which the Design is to be Applied: HAIR BRUSH

Date of Lodgment: 24/07/2025

Registrar of Designs

APPLICATIONS TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION (SECTIONS 26, 27/REGULATION 41)

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 1 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 1

Design No. : A2025/00890

Applicant : Tangle Teezer Limited

Class : 04

Article to which the Design is to be Applied: HAIR BRUSH

Date of Lodgment: 24/07/2025

Registrar of Designs

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APPLICATIONS TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION (SECTIONS 26, 27/REGULATION 41)

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 1 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 1

Design No. : A2025/00889

Applicant : Tangle Teezer Limited

Class : 04

Article to which the Design is to be Applied: HAIR BRUSH BRISTLES

Date of Lodgment: 24/07/2025

Registrar of Designs

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APPLICATIONS TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION (SECTIONS 26, 27/REGULATION 41)

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART 1 AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART 1

Design No. : A2025/00882

Applicant : Tangle Teezer Limited

Class : 04

Article to which the Design is to be Applied: HAIR BRUSH BRISTLES

Date of Lodgment: 24/07/2025

Registrar of Designs

## NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

### INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

### COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page.

The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgment. **(23)** release date (if applicable). **(43)** Date of registration. **(52)** Class. **(24)** Type of design. **(71)** Name(s) of applicant(s). **(33)** Country. **(31)** Number and. **(32)** Date of convention application. **(54)** Articles to which design is to be applied. **(57)** Brief statement of features.

***N.B.:*** Date of registration **(43)** is either Date of lodgment **(22)** or Date of convention of application **(32)** whichever is the earlier.

**Registrar of Designs**

21: A2019/00501 22: 2019-04-16 23:
43: 1900-01-01
52: Class 9 24: Part A
71: Elopak AS
33: EM 31: 005803277 32: 2018-10-19
**54: CONTAINERS**
57: The design is for a container and, in particular, for a foldable flat pack container. In a folded and assembled condition, the container has two parallel, opposing planar sidewalls. The planar sidewalls are interconnected by two opposing generally concave sidewalls. Each sidewall has an inclined sidewall extension at an apex of the container. The side wall extensions are joined and sealed to form a pointed top of the container. A central opening tab or crown protrudes from the top of the container. The tab has a sinusoidally curved free, distal or operatively upper edge.

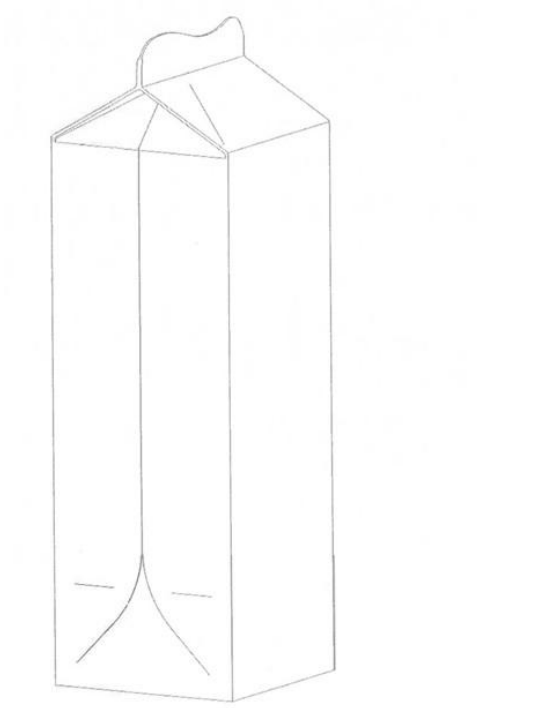


Figure 1

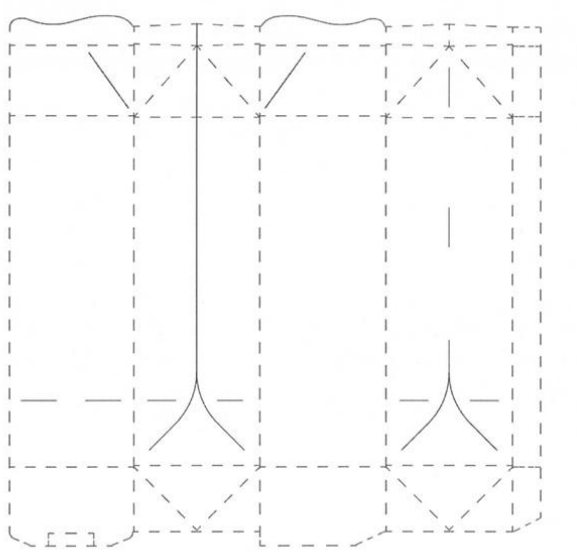
Three-dimensional view

21: A2019/00502 22: 2019-04-16 23:
43: 2018-10-19
52: Class 9 24: Part A
71: Elopak AS
33: EM(NO) 31: 005803277 32: 2018-10-19
**54: CONTAINERS**
57: The design is for a container and, in particular, for a foldable flat pack container. In a folded and assembled condition, the container has two opposing generally concave sidewalls. A central opening tab or crown protrudes from the top of the container. The tab has a sinusoidally curved free, distal or operatively upper edge.

Figure 1

Three-dimensional view

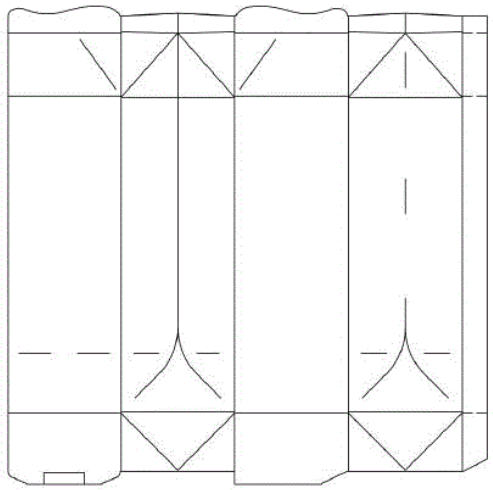
21: A2019/00503 22: 2019-04-16 23:
43: 1900-01-01
52: Class 9 24: Part A
71: Elopak AS
33: EM 31: 005803277 32: 2018-10-19
**54: CONTAINER BLANKS**
57: The design is for a container blank. The container blank comprises five alternating side wall panels each having a rectangular outline. Alternating tabs with designated fold lines extend from opposing ends of each side wall panel, wherein the tabs are configured to be joined and sealed to adjacent tabs to form an operative base and an operative pointed top of the container, respectively. A pair of tabs forming the pointed top has a sinusoidally curved edge.



Sole figure

Face-on view

21: A2019/00504 22: 2019-04-16 23:
43: 2018-10-19
52: Class 9 24: Part A
71: Elopak AS
33: EM(NO) 31: 005803277 32: 2018-10-19
**54: CONTAINER BLANKS**
57: The design is for a container blank. The container blank comprises five alternating side wall panels each having a rectangular outline. Alternating tabs with designated fold lines extend from opposing ends of each side wall panel, wherein the tabs are configured to be joined and sealed to adjacent tabs to form an operative base and an operative pointed top of the container, respectively. A pair of tabs forming the pointed top has a sinusoidally curved edge.



Sole figure

Face-on view

21: A2019/00853 22: 2019-06-20 23:
43: 1900-01-01
52: Class 9 24: Part A
71: Colgate-Palmolive Company
33: US 31: 29/674,462 32: 2018-12-21
**54: CONTAINERS**
57: The design is for a container, in particular for a mid-region and a top portion of a body of the container. Front and rear major faces of the body are connected by convexly curved sides such that the body has a generally elliptical transverse cross-section throughout its length. A central area of a top surface of the top portion is indented to define two oppositely located shoulders. An annulus protrudes between the shoulders to define an inlet. A V-shaped groove extends peripherally between the top portion and the mid-region. A generally elliptical-shaped gripping formation having a longitudinally extending ridge is provided on each side of the container and extends along a major part of a length of the mid-region.

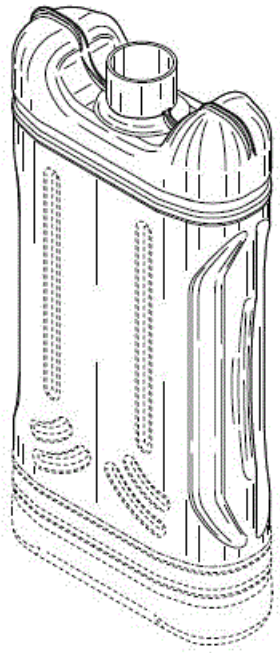


Figure 1

Three-dimensional view

21: A2019/01120 22: 2019-08-16 23:
43: 2019-02-18
52: Class 31 24: Part A
71: Versuni Holding B.V.
33: EM(NL) 31: 006259883-0001 32: 2019-02-18
**54: BLENDERS**
57: The design is for a blender. The blender comprises a base with a container mounted on top thereof. The container is vertically elongate, has a generally square cross-section with rounded corners and includes a spout and a lid. Vertical grooves are defined in each side of the container which extend from a bottom of the container and terminate partway up each side. The grooves taper inwardly in an operatively upward direction. The base has a three-dimensional, vertically oriented, generally rectangular body which tapers inwardly in an operatively upward direction. A rectangular button is provided on one sidewall of the base. Top and bottom halves of the button are inwardly inclined towards each other. Four feet are provided under the base at each corner thereof.

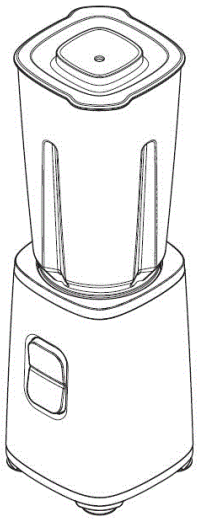


Figure 1

Three-dimensional view

21: A2019/01121 22: 2019-08-16 23:
43: 2019-02-18
52: Class 31 24: Part A
71: Versuni Holding B.V.
33: EM(NL) 31: 006259883-0004 32: 2019-02-18
**54: BASES FOR BLENDERS**
57: The design is for a base for a blender. The base has a three-dimensional, vertically oriented, generally rectangular body which tapers inwardly in an operatively upward direction. The base has four sidewalls interconnected by rounded corners. A rectangular button is provided on one sidewall of the base. Top and bottom halves of the button are inwardly inclined towards each other. Four feet are provided under the base beneath each corner.

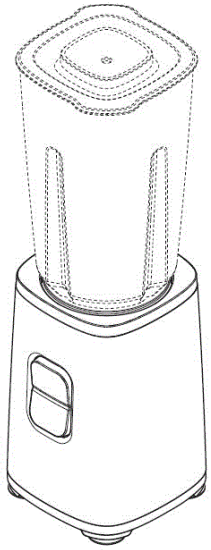


Figure 1

Three-dimensional view

21: A2019/01356 22: 2019-09-18 23:
43: 2019-03-19
52: Class 24 24: Part A
71: Kenvue Brands LLC
33: US 31: 29/684,233 32: 2019-03-19
**54: ABSORBENT ARTICLES**
57: The design is for an absorbent article. The absorbent article has an elongate body with rounded ends and has opposing trapezoidal wings protruding outwardly from a middle of the body. A linear border formation is provided on the inside of an outer periphery of the absorbent article. A generally oval formation with enlarged ends is defined on the body and has a pattern defined therein. The pattern has three adjacent mandorlas in an end to end relationship. A plurality of curves project from the free ends of the outermost mandorlas. A generally elongate quatrefoil surrounds the mandorlas and intersects the curves.

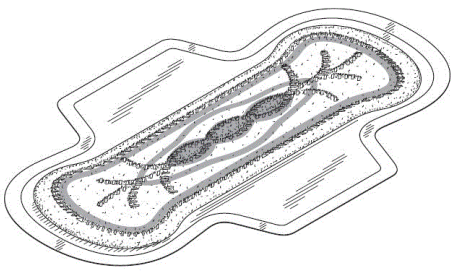


Figure 1

Three-dimensional view

21: A2019/01357 22: 2019-09-18 23:
43: 2019-03-19
52: Class 24 24: Part A
71: Kenvue Brands LLC
33: US 31: 29/684,233 32: 2019-03-19
**54: ABSORBENT ARTICLES**
57: The design is for an absorbent article. The absorbent article has an elongate body with first and second rounded ends and has opposing trapezoidal wings protruding outwardly from a middle of the body. The first rounded end is larger than the second rounded end. A central formation is defined on the body and has a pattern defined therein. The pattern has four adjacent mandorlas in an end to end relationship. A plurality of branch like curves project from the free ends of the outermost mandorlas. A pair of generally parallel curves partially enclose each side of the branch like curves at the first rounded end. An elongate formation encloses the mandorlas and curves.

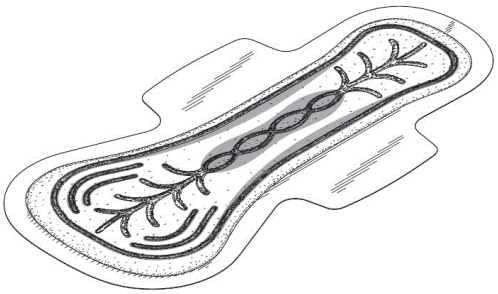


Figure 1

Three-dimensional view

21: A2019/01495 22: 2019-10-08 23:
43: 1900-01-01
52: Class 28 24: Part A
71: Dorco Co., Ltd.
33: KR 31: 30-2019-0016589 32: 2019-04-09
**54: RAZOR HANDLES**
57: The ornamental design of the razor handle is characterized by a button part having a shape similar to a pentagon and surrounded by an oval-shaped boundary as shown in Fig. 2, wherein the button part is angled when viewed from a side, as shown in Figs. 4 and 5, to provide an ergonomically designed button, allowing easy push of the button by a user's finger.

Figure 1

Three-dimensional view

21: A2019/01880 22: 2019-12-23 23:
43: 2019-06-28
52: Class 4 24: Part A
71: GSK Consumer Healthcare SARL
33: EM(GB) 31: 006599841-0002 32: 2019-06-28
**54: TOOTHBRUSHES**
57: The design is for a toothbrush and, in particular, for a toothbrush head. The toothbrush head comprises an elongate backing which tapers inwardly from a base towards a rounded free end. A rear side of the backing has a border formation defined thereon. Bristles project from the backing. Free ends of the bristles define a wavy profile when viewed from the side. The bristles are arranged in circular cylindrical clumps. Adjacent the free end of the toothbrush head is a round arrangement of clumps of bristles. The remaining clumps of bristles are arranged in four longitudinally oriented generally parallel rows between the round arrangement and the base.

Figure 1

Three-dimensional view

21: A2019/01881 22: 2019-12-23 23:
43: 2019-06-28
52: Class 4 24: Part A
71: GSK Consumer Healthcare SARL
33: EM(GB) 31: 006599841-0003 32: 2019-06-28
**54: TOOTHBRUSHES**
57: The design is for a toothbrush and, in particular, for a toothbrush head. The toothbrush head comprises an elongate backing which tapers inwardly from a base towards a rounded free end. A rear side of the backing has a green border formation defined thereon. Bristles project from the backing. Free ends of the bristles define a wavy profile when viewed from the side. The bristles are arranged in circular cylindrical clumps. Adjacent the free end of the toothbrush head is a round arrangement of clumps of bristles. The remaining clumps of bristles are arranged in four longitudinally oriented generally parallel rows between the round arrangement and the base. The clumps of bristles in the outer two rows comprise a mix of white and blue bristles. The clumps of bristles in the inner two rows comprise alternating clumps of blue and white bristles. The round arrangement comprises white bristles.

Figure 1

Three-dimensional view

21: A2020/00006 22: 2020-01-06 23:
43: 1900-01-01
52: Class 04 24: Part A
71: HALEON CH SARL
33: GB 31: 006614954 32: 2019-07-08
**54: TOOTHBRUSH HEADS**
57: The design is for a toothbrush head comprising an elongate stem that tapers gently inwardly as it extends upwardly from a shoulder portion. An upper end of the stem curves rearwardly upwardly towards a concavely curved bowl-shaped member that projects upwardly at a rear of the toothbrush head. A short bristle locator projects upwardly from the upper end of the stem. Front and rear surfaces of the bristle locator taper inwardly towards an upper ring. Forward and rearward arrangements of elongate bristles project radially from a front and rear surface of the ring. The rearward arrangement is cupped by the bowl-shaped member.

Figure 1

Three-dimensional view

21: A2020/00128 22: 2020-02-04 23:
43: 2019-08-16
52: Class 32 24: Part A
71: BSN medical GmbH
33: EM(DE) 31: 006727665-0006 32: 2019-08-16
**54: ORNAMENTATION**
57: The design relates to ornamentation comprising a plurality of coloured blocks. In particular a a first large red trapezium block is provided. The width of the first block decreases upwardly away from a lower edge thereof. A second smaller blue trapezium block is provided contiguously to an operatively upper end of the first block and extends transversely relative to the first block. The second block has a red operatively upper and lower border and a side border which overlaps the first block. The colour of the side border is a blend of the colours of the overlapping blocks.

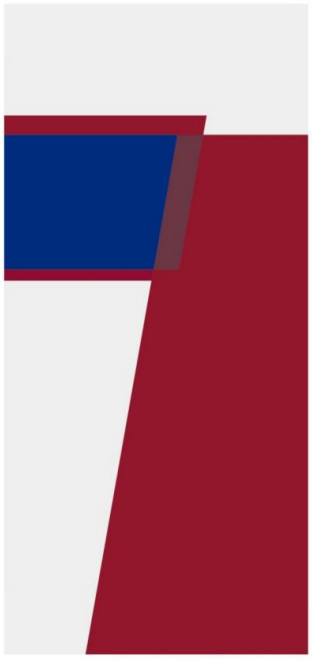


Figure 1

Face-on view

21: A2020/00129 22: 2020-02-04 23:
43: 2019-08-16
52: Class 32 24: Part A
71: BSN medical GmbH
33: EM(DE) 31: 006727665-0007 32: 2019-08-16
**54: ORNAMENTATION**
57: The design relates to ornamentation comprising a plurality of coloured blocks. In particular a first large turquoise green trapezium block is provided. The width of the first block decreases upwardly away from a lower edge thereof. A second smaller dark blue trapezium block is provided contiguously to an operatively upper end of the first block and extends transversely relative to the first block. The second block has a turquoise green operatively upper border, a dark red operatively lower border and a side border which overlaps the first block. The colour of the side border is a blend of the colours of the overlapping blocks.

Figure 1

Face-on view

21: A2020/00130 22: 2020-02-04 23:
43: 2019-08-16
52: Class 32 24: Part A
71: BSN medical GmbH
33: EM(DE) 31: 006727665-0008 32: 2019-08-16
**54: ORNAMENTATION**
57: The design relates to ornamentation comprising a plurality of coloured blocks. In particular a first large light blue trapezium block is provided. The width of the first block decreases upwardly away from a lower edge thereof. A second smaller dark blue trapezium block is provided contiguously to an operatively upper end of the first block and extends transversely relative to the first block. The second block has a light blue operatively upper border, a dark red operatively lower border and a side border which overlaps the first block. The colour of the side border is a blend of the colours of the overlapping blocks.

Figure 1

Face-on view

21: A2020/00131 22: 2020-02-04 23:
43: 2019-08-16
52: Class 32 24: Part A
71: BSN medical GmbH
33: EM(DE) 31: 006727665-0009 32: 2019-08-16
**54: ORNAMENTATION**
57: The design relates to ornamentation comprising a plurality of coloured blocks. In particular a first large green trapezium block is provided. The width of the first block decreases upwardly away from a lower edge thereof. A second smaller dark blue trapezium block is provided contiguously to an operatively upper end of the first block and extends transversely relative to the first block. The second block has a green operatively upper border, a dark red operatively lower border and a grey side border which overlaps the first block.

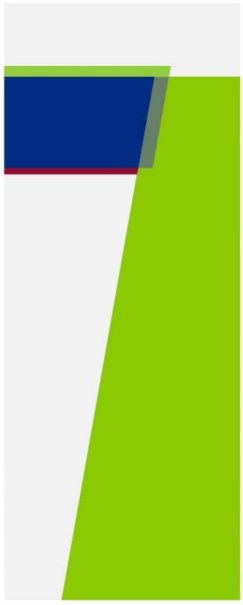


Figure 1

Face-on view

21: A2020/00264 22: 2020-02-27 23:
43: 2019-08-27
52: Class 9 24: Part A
71: E6PR, S.A.P.I. DE C.V.
33: MX 31: MX/f/2019/002336 32: 2019-08-27
**54: SLEEK CAN HOLDERS**
57: The design is for sleek can holders and comprises a rectangular tray having outwardly protruding rounded corners and a raised side wall with curved edges. The tray includes six inter-connecting circular raised members, arranged in three rows of two. Each member defines a round recess. A side of each member includes a concavely curved forwardly projecting lip. Two smaller circular raised members are each positioned in between and inter-connect with two rows. The circular members protrude downwardly at a rear surface of the tray.

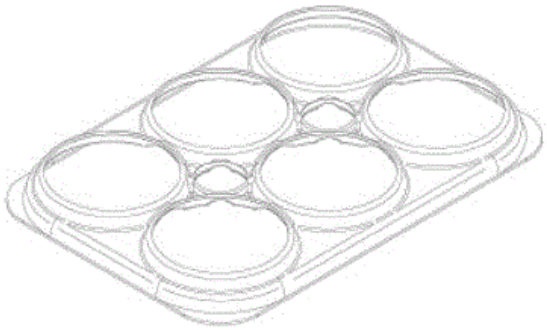


Figure 1

Three-dimensional view

21: A2020/00318 22: 2020-03-09 23:
43: 2019-09-09
52: Class 9 24: Part A
71: The Coca-Cola Company
33: US 31: 29/705,025 32: 2019-09-09
**54: BOTTLES**
57: The design is for a bottle comprising an elongate body extending upwardly from a rounded base, into a waist portion that terminates into a cylindrical upper portion of the bottle, which upper portion has 3 “v” shaped grooves along its circumference. The bottle has a short cylindrical neck projecting upwardly from the shoulders which extend from the upper portion of the bottle. The base defines alternating long and shorter recesses that are radially arranged. The waist includes an arrangement of separately spaced honeycomb elements. The upper half defines circumferentially extending spaced apart recesses.

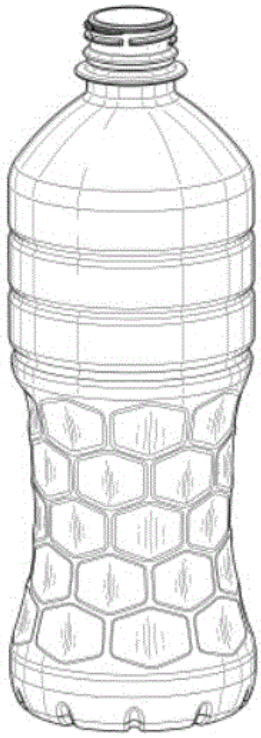


Figure 1

Three-dimensional view

21: A2020/00319 22: 2020-03-09 23:
43: 2019-09-09
52: Class 9 24: Part A
71: The Coca-Cola Company
33: US 31: 29/705,025 32: 2019-09-09
**54: BOTTLES**
57: The design is for a bottle comprising an elongate body extending upwardly from a rounded base, into a waist portion that terminates into a cylindrical upper portion of the bottle, which upper portion has 3 “v” shaped grooves along its circumference. The bottle has a short cylindrical neck projecting upwardly from the shoulders which extend from the upper portion of the bottle. The base defines alternating long and shorter recesses that are radially arranged. The waist includes an arrangement of separately spaced honeycomb elements. The upper half defines circumferentially extending spaced apart recesses.

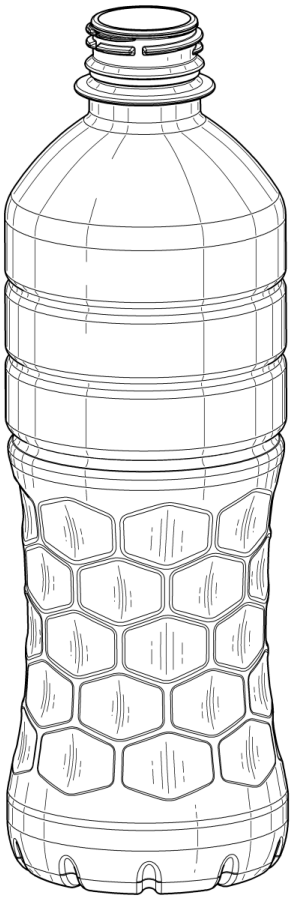


Figure 1

Three-dimensional view

21: A2020/00456 22: 2020-05-04 23:
43: 2019-10-07
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402019101092.0 32: 2019-10-07
**54: MOTOR VEHICLES**
57: The design is for a motor vehicle, specifically a four-door sedan. The vehicle has a long bonnet, a short front and a long rear overhang, an upright front, and a sloping roofline. The front has a rectangular radiator grille surrounded by an elongated section having a curved upper edge, and flanked by two elongated, almost rectangular headlights. The front has an integrated bumper, and an elongated air intake grille located in the lower section, which is broadening towards the sides. The front is characterized by horizontal and vertical lines forming rectangular shapes. The side is characterized by a lower line developing from the front fender towards the rear fender, which is sloping upwards towards the rear. In the rear, a pair of trapezoidal rear lights is provided. Horizontal ridges define the rear section.

Figure 1

Three-dimensional view

21: A2020/00457 22: 2020-05-04 23:
43: 2019-10-07
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402019101092.0 32: 2019-10-07
**54: MOTOR VEHICLES**
57: The design is for a motor vehicle, specifically a four-door sedan. The vehicle has a long bonnet, a short front and a long rear overhang, an upright front, and a sloping roofline. The front has a rectangular radiator grille surrounded by an elongated section having a curved upper edge, and flanked by two elongated, almost rectangular headlights. The front has an integrated bumper, and an elongated air intake grille located in the lower section, which is broadening towards the sides. The front is characterized by horizontal and vertical lines forming rectangular shapes. The side is characterized by a lower line developing from the front fender towards the rear fender, which is sloping upwards towards the rear. In the rear, a pair of trapezoidal rear lights is provided. Horizontal ridges define the rear section.

Figure 1

Three-dimensional view

21: A2020/00475 22: 2020-05-04 23:
43: 2019-11-01
52: Class 14 24: Part A

71: HMD Global Oy
33: EM(FI) 31: 007156617-0001 32: 2019-11-01
**54: MOBILE PHONES**
57: The design is for a mobile phone and comprises an elongate rectangular housing with rounded corners and a peripheral sidewall. The housing encapsulates a rectangular screen that occupies most of a front face of the phone. A central narrow interface is found above the screen. A rear face of the phone includes an oblong camera lens centrally located towards a top of the housing. A bottom portion of the rear face includes an elongate port. The sidewall includes a narrow oblong operating button and a smaller oblong operating button on one side of the phone. At an opposite side of the phone, the sidewall includes an oblong operating button. An edge of an upper wall of the housing includes a round port and a bottom wall includes a centrally positioned elongate port.

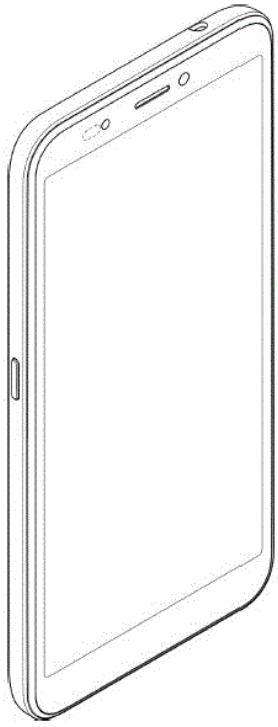


Figure 1

Three-dimensional view

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21: A2020/00571 22: 2020-05-11 23:
43: 2019-11-12
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 007216833-0001 32: 2019-11-12
**54: NOSE TRIMMERS**
57: The design is for a nose trimmer which includes an elongate body having a handle portion extending upwardly from an oval base and tapering gently to a rearwardly inclined head. An oval blade arrangement projects upwardly from the head. A front surface of the handle portion includes a U-shaped configuration within which a rectangular operating switch is positioned. The operating switch has an arrangement of minute gripping elements. A rear surface and sides of the handle portion include a pattern of diamond-shaped gripping elements.

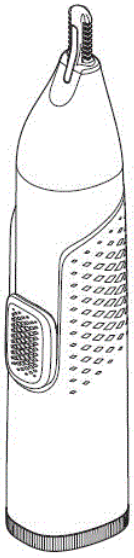

Figure 1

Three-dimensional view

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21: A2020/00640 22: 2020-05-22 23:
43: 2019-11-29
52: Class 7 24: Part A
71: Benriner Co., Ltd
33: JP 31: 2019-026686 32: 2019-11-29
**54: UTENSILS**
57: The design is for a utensil and, in particular, for a mandolin(e) slicer. The mandolin(e) slicer has a generally rectangular frame. A cutting blade is mounted obliquely between longer sides of the frame. The frame includes a platform between the blade and one end of the frame. A detachable support plate is provided which is shaped to fit complementarily between the blade and the other end of the frame.

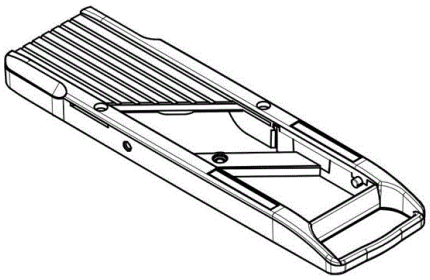


Figure 1

Three-dimensional view with a support plate

21: A2020/00916 22: 2020-06-29 23:
43: 2019-12-30
52: Class 9 24: Part A
71: Colgate-Palmolive Company
33: US 31: 29/718,920 32: 2019-12-30
**54: PACKAGING**
57: The design is for packaging for an oral care implement. The packaging consists of a planar body from which an oval cylindrical enclosure and an adjacent elongate enclosure, which is connected to the oval cylindrical enclosure, protrude. One end of the planar body defines a hook.

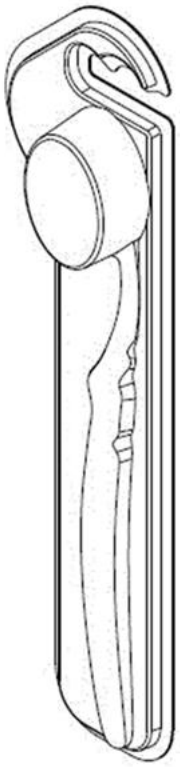


Figure 1

Three-dimensional view

21: A2020/01106 22: 2020-08-13 23:
43: 2020-02-14
52: Class 9 24: Part A
71: Colgate-Palmolive Company
33: US 31: 29/724,336 32: 2020-02-14
**54: BOTTLES**
57: The design is for a bottle. The bottle includes an elongate body extending between an oval base at one end and a peripheral shoulder at an opposing end thereof. When seen in top and bottom view, the body has an oval outline. A plurality of curved peripheral grooves is provided along a length of the body. The body is configured to provide a narrower waist. A neck extends from the shoulder and tapers operatively inwardly and upwardly away from the shoulder. A central screw cap opening protrudes from the neck. When seen in side view, a generally oval shaped indent formation is provided on the body proximate the base and shoulder, respectively.

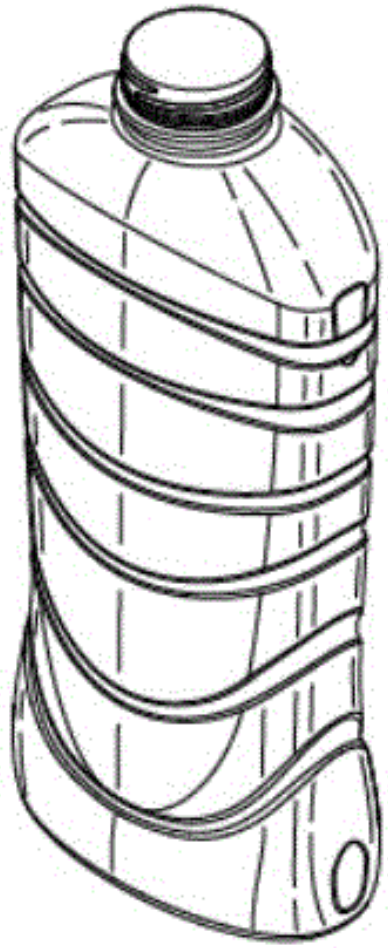


Figure 1

Three-dimensional view

21: A2020/01158 22: 2020-08-27 23:
43: 2020-02-28
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402020100204.6 32: 2020-02-28
**54: MOTOR VEHICLES**
57: The design is for a vehicle, particularly a four-door sedan, having a long wheelbase and short overhangs. The front is characterized by a large radiator grille extending down almost to the lower edge, its upright elements connected in the center, and its air intakes have a mesh structure. In the lower section a large, horizontal, trapezoidal opening is flanked by vertically arranged apertures. The bonnet has four prominent contour lines: the two inner ones curve inwardly, the two outer ones outwardly. The side has two swage lines extending parallel to each other. The upper swage line extends below the door handle and the lower directly above the sill. Below, an elongated, horizontal insertion of a different color is provided, being characterized by a sharp bend in the front fender. The rear is characterized by horizontal lines, elongated rear lights and vertically arranged apertures positioned below at the outer edges.

Figure 1

Three-dimensional view

21: A2020/01159 22: 2020-08-27 23:
43: 2020-02-28
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402020100204.6 32: 2020-02-28
**54: MOTOR VEHICLES**
57: The design is for a vehicle, particularly a two-door coupé, having a long wheelbase, and short overhangs. The front is characterized by a large radiator grille extending down almost to the lower edge, its upright elements connected in the center; the air intakes, however, are closed. In the lower section a large, horizontal opening is flanked by vertically arranged, bracket-shaped apertures. The bonnet has four prominent contour lines: the two inner ones curve inwardly, the two outer ones outwardly. The side has two swage lines extending parallel to each other. The upper swage line extends below the door handle and the lower one directly above the sill. Below, an elongated, horizontal insertion of a different color is provided, being characterized by a sharp bend in the front fender. The rear is characterized by horizontal and diagonal lines, elongated rear lights and vertically arranged apertures positioned below at the outer edges.

Figure 1

Three-dimensional view

21: A2020/01304 22: 2020-09-29 23:
43: 2020-03-30
52: Class 32 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402020100317.4 32: 2020-03-30
**54: GRAPHIC SYMBOLS**
57: The graphic symbol is implemented in the form of a stylized figure leaning to the right, i.e. woman in a long dress in profile, with rearwardly drawn arms in the form of wings. The upper body and the knees of the stylized figure are bent. The woman has long hair which is smoothed back. The front wing is implemented smoothly outlined, inclined upwardly and rearwardly, widening and then narrowing in the left direction. The rear wing is implemented in the form of a smoothly curved stripe, arranged above the front wing. There is an arched upwardly horizontal area under the feet of the stylized figure.

Figure 1

Face-on view

21: A2020/01305 22: 2020-09-29 23:
43: 2020-03-31
52: Class 9 24: Part A
71: Beaute Prestige International
33: EM(FR) 31: 007782248-0001 32: 2020-03-31
**54: FLASKS**
57: A round shaped bottle that evokes the form of a drop redesigned by the human hand. The bottle has a round-bottom. On its back, is has a round thumbprint. When it is placed on a table, the thumbprint lifts it a little bit so that it self-merchandises. A white, soft touch matte-finished spray cap is attached to the bottle. The shape of the spray cap's bottom is oval, the same as the bottle's bottom. The material of the spray cap is flexible so that to spray the fragrance, one has to press the top of the spray cap

Figure 1

Three-dimensional view

21: A2020/01343 22: 2020-10-08 23:
43: 2020-04-09
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 007799960-0026 32: 2020-04-09
**54: COMBS FOR GROOMING APPARATUS**
57: The design is for a comb for a grooming apparatus. A body of the comb has a first end and an oppositely located second end. The first end of the body is configured to attach to the grooming apparatus. A head comprising a plurality of comb teeth extends from the second end of the body. A circular formation is provided on a front surface of the body.

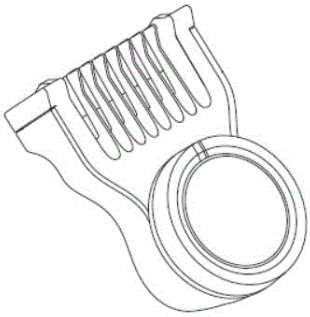


Figure 1

Three-dimensional view

21: A2020/01348 22: 2020-10-08 23:
43: 2020-04-09
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 007799960-0018 32: 2020-04-09
**54: GROOMING APPARATUS**
57: The design is for a grooming apparatus. The grooming apparatus has an elongate and generally cylindrical body having a slanted flat base on a first end thereof. A neck extends from an oppositely located second end of the body. The neck is curved towards a front of the grooming apparatus. A receiving formation is provided in a free end of the neck.

Figure 1

Three-dimensional view

21: A2020/01349 22: 2020-10-08 23:
43: 2020-04-09
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 007799960-0021 32: 2020-04-09
**54: GROOMING APPARATUS**
57: The design is for a grooming apparatus. The grooming apparatus has an elongate and generally cylindrical body having a slanted flat base on a first end thereof. A neck extends from an oppositely located second end of the body. The neck is curved towards a front of the grooming apparatus. A receiving formation is provided at a free end of the neck. A plurality of diamond-shaped patterns is provided on a rear surface of the apparatus. A rectangular formation with rounded corners, enclosing a square formation with rounded corners, is provided on a front surface of the body.

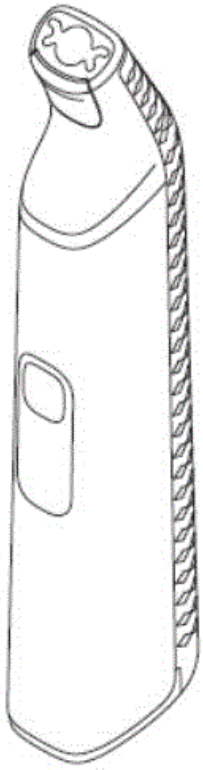


Figure 1

Three-dimensional view

21: A2020/01350 22: 2020-10-08 23:
43: 2020-04-09
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 007799960-0007 32: 2020-04-09
**54: GROOMING APPARATUS**
57: The design is for a grooming apparatus. The grooming apparatus has an elongate and generally cylindrical body having a slanted flat base on a first end thereof. A neck extends from an oppositely located second end of the body. The neck is curved towards a front of the grooming apparatus. A grooming head is connected to a receiving formation provided at a free end of the neck. A plurality of diamond-shaped patterns is provided on a rear surface of the apparatus. A rectangular formation with rounded corners, enclosing a square formation with rounded corners, is provided on a front surface of the body.

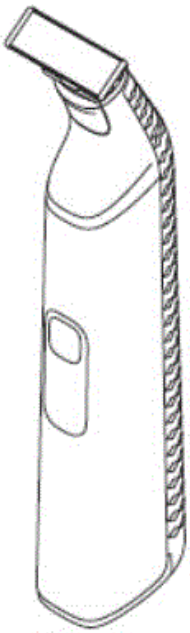


Figure 1

Three-dimensional view

21: A2020/01351 22: 2020-10-08 23:
43: 2020-04-09
52: Class 28 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 007799960-0001 32: 2020-04-09
**54: GROOMING APPARATUS**
57: The design is for a grooming apparatus. The grooming apparatus has an elongate and generally cylindrical body having a slanted flat base on a first end thereof. A neck extends from an oppositely located second end of the body. The neck is curved towards a front of the grooming apparatus. A grooming head is connected to a receiving formation provided at a free end of the neck.

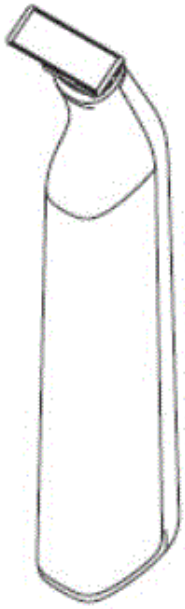


Figure 1

Three-dimensional view

21: A2021/00148 22: 2021-02-16 23:
43: 2020-08-17
52: Class 30 24: Part A
71: Hill's Pet Nutrition, Inc.
33: US 31: 29/746,723 32: 2020-08-17
**54: SENSORS**
57: The design is for a sensor having a generally cuboidal body with a tapered end piece at each end. The body has a rectangular, slightly laterally convex, top face and the body together with the end pieces present an elongate, octagonal base. A sidewall extends circumferentially around the sensor, the sidewall being compound in that it has three surfaces of varying inclination. A lower surface of the sidewall is downwardly inwardly inclined to meet the base, a middle surface is upright, and a top surface is upwardly inwardly inclined to meet the top face. Ends of the sidewall are downwardly compressed at the end pieces. Each end piece defines an oblique trapezium-shaped upwardly and outwardly directed end face. A central, generally rectangular through-hole with curved corners is defined in each end piece. An oblique and off-centre slit is defined through the compressed sidewall, the slit being continuous with the through-hole.

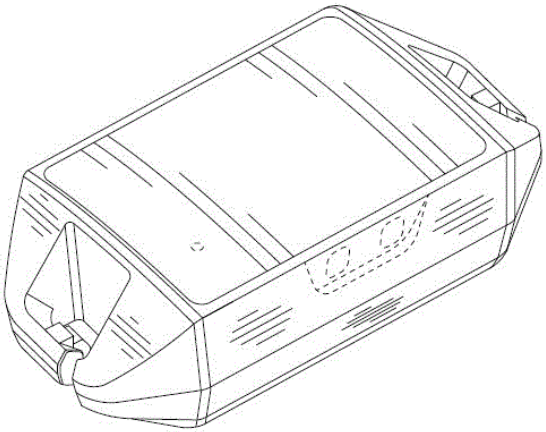


Figure 1

Three-dimensional view

21: A2021/00149 22: 2021-02-16 23:
43: 2020-08-17
52: Class 30 24: Part A
71: Hill's Pet Nutrition, Inc.
33: US 31: 29/746,723 32: 2020-08-17
**54: SENSORS**
57: The design is for a sensor having a generally cuboidal body with a tapered end piece at each end. The body has a rectangular, slightly laterally convex, top face and the body together with the end pieces present an elongate, octagonal base. A sidewall extends circumferentially around the sensor, the sidewall being compound in that it has three surfaces of varying inclination. A lower surface of the sidewall is downwardly inwardly inclined to meet the base, a middle surface is upright, and a top surface is upwardly inwardly inclined to meet the top face. Ends of the sidewall are downwardly compressed at the end pieces. Each end piece defines an oblique trapezium-shaped upwardly and outwardly directed end face. A central, generally rectangular through-hole with curved corners is defined in each end piece. A centred slit is defined through the compressed sidewall, the slit being continuous with the through-hole.

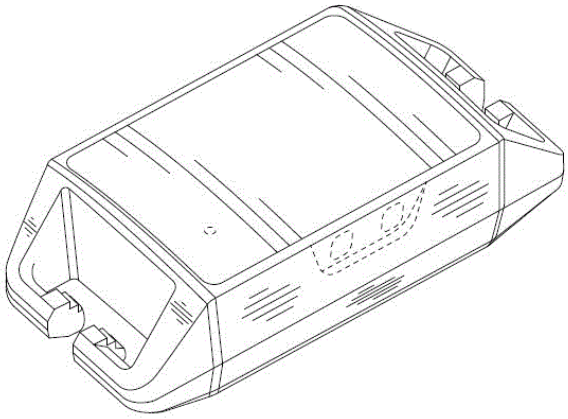


Figure 1

Three-dimensional view

21: A2021/00150 22: 2021-02-16 23:
43: 2020-08-17
52: Class 30 24: Part A
71: Hill's Pet Nutrition, Inc.
33: US 31: 29/746,723 32: 2020-08-17
**54: SENSORS**
57: The design is for a sensor having a cuboidal body with a tapered end piece at each end. The body has a rectangular top face and the body together with the end pieces present an elongate, octagonal base. A sidewall extends circumferentially around the sensor, the sidewall being compound in that it has three surfaces of varying inclination. A lower surface of the sidewall is downwardly inwardly inclined to meet the base, a middle surface is upright, and a top surface is upwardly inwardly inclined to meet the top face. Ends of the sidewall are downwardly compressed at the end pieces. Each end piece defines an oblique trapezium-shaped upwardly and outwardly directed end face. A central, rectangular through-hole is defined in each end piece. An oblique and off-centre slit is defined through the compressed sidewall and each sidewall defines a lobe which projects outwardly adjacent and parallel to the slit.

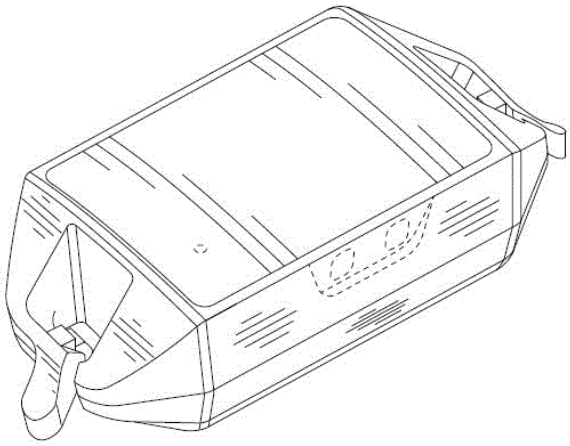


Figure 1

Three-dimensional view

21: A2021/00185 22: 2021-02-26 23:
43: 2020-08-31
52: Class 24 24: Part A
71: CellAED Life Saver Pty Ltd
33: AU 31: 202014731 32: 2020-08-31
**54: DEFIBRILLATORS**
57: The design is for a defibrillator having a rectangular prism body. The body comprises a rectangular base wall and a rectangular operative top wall, wherein the base wall and the top wall have rounded corners and wherein the outline dimensions of the top wall are smaller than that of the base wall. Each major side of the top wall is indented at a midpoint thereof to define a narrow waist. Sidewalls extend operatively inwardly and upwardly from the major sides of the base wall to the major sides of the top wall. In side view, each side wall has a V-shaped indent formation which corresponds with the waist of the top wall. A surface of each sidewall comprises a grid formation on each side of the V-shaped indent. End walls extend operatively inwardly and upwardly from the minor sides of the base wall to the minor sides of the top wall.

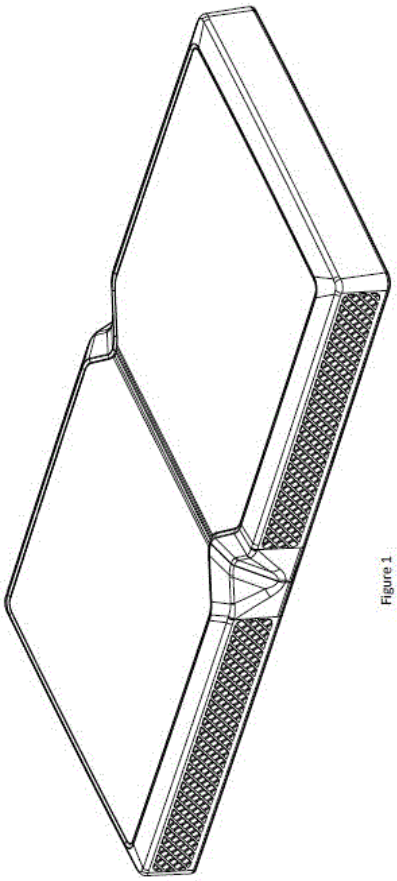


Figure 1

Three-dimensional view

21: A2021/00228 22: 2021-03-05 23:
43: 2020-09-07
52: Class 21 24: Part A
71: Peloton Interactive, Inc.
33: US 31: 29/749,525 32: 2020-09-07
**54: EXERCISE BICYCLES**
57: The design is for a stationary exercise bike comprising a frame, the frame including an inclined down tube which extends into a u-shaped junction from which a seat tube would extend. The frame further includes first and second front support tubes that would terminate into a stabilising floor member. From each of the first and second front support tubes extend first and second mid frame support tubes, the first and second mid support frame tubes being affixed to the inclined down tube at or near the u-shaped junction.

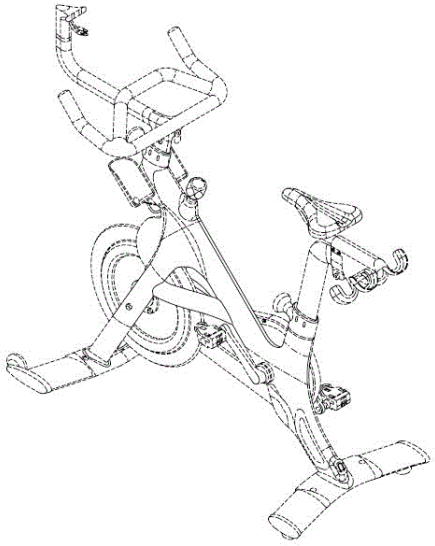


Figure 1

Three-dimensional view

21: A2021/00273 22: 2021-03-18 23:
43: 2020-09-18
52: Class 9 24: Part A
71: Castrol Limited
33: EM(GB) 31: 008173512-0001 32: 2020-09-18
**54: BOTTLES**
57: The design is for a bottle comprising a rectangular body having a base with curved corners, front and rear walls spaced apart by a pair of side walls extending upwardly from the base, and a top surface. A top portion of the front wall is rearwardly inclined and includes a cylindrical spout and a circular mouth. The top surface includes four spaced-apart rectangular protrusions and defines a central oblong recess. A first end of an L-shaped handle attaches at the recess behind the mouth and a second end attaches at a top edge of the rear wall. Each corner of the body defines a recessed channel, further defining a pair of elongated narrow channels with three transversely arranged and spaced-apart, protruding curved elbows. Top and bottom edges of the side walls define three oval scalloped recesses. A bottom edge of the front and rear wall defines a trapezoid recess.

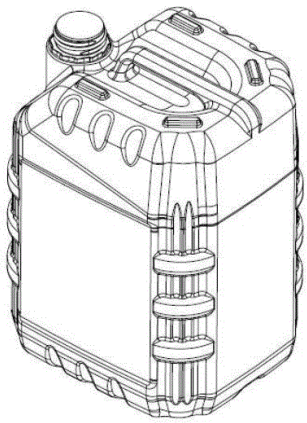


Figure 1

Three-dimensional view

21: A2021/00274 22: 2021-03-18 23:
43: 2020-09-18
52: Class 9 24: Part A
71: Castrol Limited
33: EM(GB) 31: 008173512-0002 32: 2020-09-18
**54: BOTTLES**
57: The design is a bottle and comprises a rectangular body having a base with curved corners, front and rear walls spaced apart by a pair of side walls extending upwardly from the base, and an inwardly inclined shoulder portion extending from the walls to a top wall. A front portion of the top wall includes an upwardly projecting circular mouth. A first end of a handle extends from behind the mouth with a rectangular recess on either side, and a second end attaches to a rear portion of the top wall, the handle defining an oval aperture. Each corner of the body defines a recessed channel, further defining a pair of elongated narrow channels. A top edge of each side wall defines six spaced-apart oval scalloped recesses.

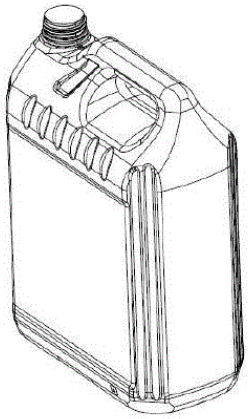


Figure 1

Three-dimensional view

21: A2021/00629 22: 2021-06-02 23:
43: 2020-12-03
52: Class 7 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008307862-0001 32: 2020-12-03
**54: COFFEE MAKERS**
57: The design is applied to a coffee machine including a substantially parallelepiped body comprising a front side; an opposite rear end wall defining an electrical connector slot; side walls; a roof; and a base. A downwardly slanting wall projects from the roof along the front side. A nozzle, spaced inwardly from the slanting wall, is provided in an internal cavity defined by the front side. A tray, defining drainage openings, projects from the base. One of the side walls comprises a door that is flush fitted thereto. The other side wall comprises an upwardly extending, slanted loop shaped slot, and a member fitted therein. A pair of opposite handles project from the roof and between the handles is provided a circular lid which comprises a vent member. The body defines a pattern of openings defined on the roof, vent member, upper portions of the side walls and rear end wall.

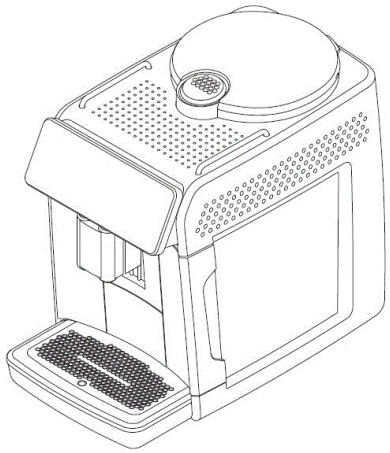


Figure 1

Three-dimensional view

21: A2021/00630 22: 2021-06-02 23:
43: 2020-12-03
52: Class 7 24: Part A
71: Koninklijke Philips N.V.
33: EM(NL) 31: 008307862-0002 32: 2020-12-03
**54: COFFEE MAKERS**
57: The design is applied to a coffee machine including a substantially parallelepiped body comprising a front side; an opposite rear end wall defining an electrical connector slot; side walls; a roof; and a base. A downwardly slanting wall projects from the roof along the front side. A nozzle, spaced inwardly from the slanting wall, is provided in an internal cavity defined by the front side. A tray, defining drainage openings, projects from the base. One of the side walls comprises a door that is flush fitted thereto. The other side wall comprises an upwardly extending, slanted loop shaped slot, and a member fitted therein. A pair of opposite handles project from the roof and between the handles is provided a circular lid which comprises a vent member defining vent openings.

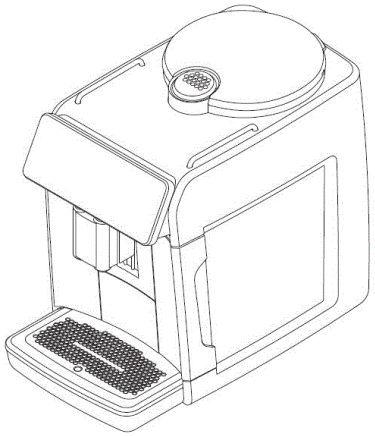


Figure 1

Three-dimensional view

21: A2021/00787 22: 2021-07-06 23:
43: 2021-03-23
52: Class 7 24: Part A
71: Versuni Holding B.V.
33: IN 31: 341286-001 32: 2021-03-23
**54: SANDWICH MAKERS**
57: The design is for a sandwich maker comprising a generally square body in plan view with rounded side edge corners and chamfered top and bottom edges. The body includes two halves split horizontally, namely a top half and a bottom half. Top and bottom walls of the respective halves are inclined to converge from back to front. Sides of the upper and lower halves are also slightly inclined to converge gently towards the front. Aligned rectangular apertures are provided in both halves towards the front to define a handle. The lower half includes two inverse frusto-conical supports at the front and an elongate support foot at the back, parallel to a back face. A generally rectangular clip is provided at the front between the halves, whilst the halves are joined at the back by a hinge.

Figure 1

Three-dimensional view

21: A2021/00877 22: 2021-07-26 23:
43: 1900-01-01

52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402021100063-0001 32: 2021-01-27
**54: MOTOR VEHICLES**
57: The design is for a motor vehicle, particularly a two-door coupe having a long bonnet and short overhangs. The bonnet has two curved contour lines and a projecting centre piece. The front is characterized by a kidney-shaped radiator grille with vertical air flaps. The headlight units each have a singular individual circular headlight. Below the radiator grille, the front has horizontal air flaps in the hexagonal lower intakes. Air curtains are integrated into the large triangular inserts at the outer edges of the front. The sides are characterized by a prominent swage line above the door opener and a second character line positioned in the door sill linking the front and rear wheel arches. The rear has irregularly hexagonal-shaped two-piece light units. It is characterized by horizontal lines in the centre and is framed by a curved line incorporating the trunk and rear lights.

Figure 1

Three-dimensional view

21: A2021/00980 22: 2021-08-20 23:
43: 2025-06-05
52: Class 2 24: Part A
71: Crocs, Inc.
33: US 31: 29/771,369 32: 2021-02-22
**54: FOOTWEAR**
57: The present design consists of a shoe that has features that make it new and original. The present design consists of a shoe characterized by a slip-on-type construction consisting of a sole, an upper, and a heel strap. The sole includes a trim portion above a taller heel portion and a shorter toe portion. The sole includes a groove around the back of the sole to a middle area on either side of the sole between the heel portion and toe portion. The lower side of the heel portion includes raised bumps. The upper includes a toe portion having holes on the top and openings at the bottom where the upper meets the sole.

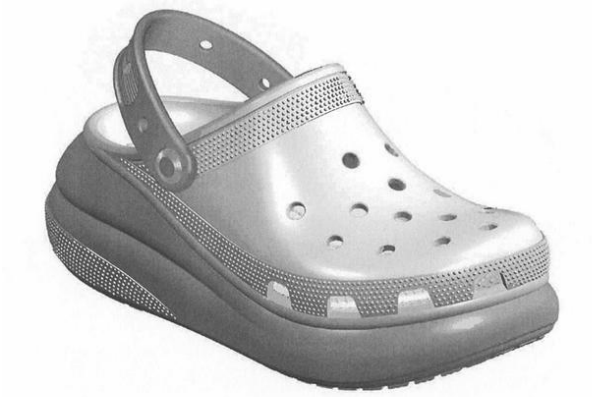
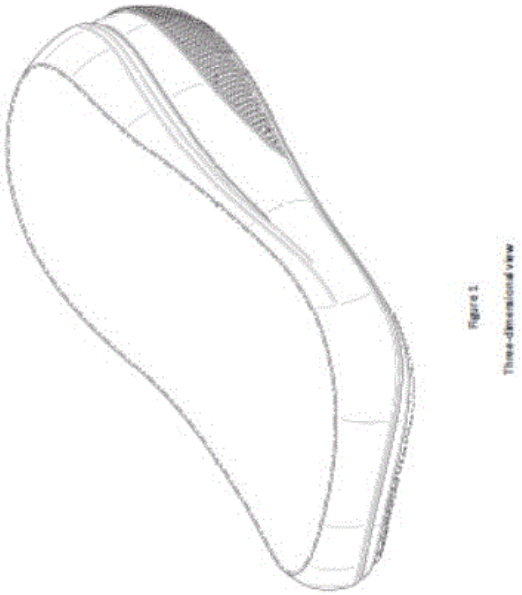


Figure 1

Three-dimensional view

21: A2021/00982 22: 2021-08-20 23:
43: 2021-02-22
52: Class 2 24: Part A
71: Crocs, Inc.
33: US 31: 29/771,369 32: 2021-02-22
**54: FOOTWEAR**
57: The present design consists of a shoe sole that has features that make it new and original. The present design consists of a shoe sole characterized by a taller heel portion and a shorter toe portion. The sole includes a groove around the back of the sole to a middle area on either side of the sole between the heel portion and toe portion. The lower side of the heel portion includes raised bumps.



21: A2021/01040 22: 2021-09-07 23:

43: 2021-03-08
52: Class 9 24: Part A
71: Colgate-Palmolive Company
33: US 31: 29/773,169 32: 2021-03-08
**54: CONTAINERS**
57: The design is for a container having an elongated body with convexly curved sides, the body tapering from a first end providing an outlet to a second end located opposite to the first end. The outlet has a circular cross section and is concentrically stepped. A shoulder of the body is defined on either side of the outlet, curving away from the outlet. The container is provided with a transparent cap at the first end. The cap extends the profile of the body, thus having convexly curved sides and tapering toward the first end of the body. A rectangular lip projects around the body adjacent an edge of the first end.

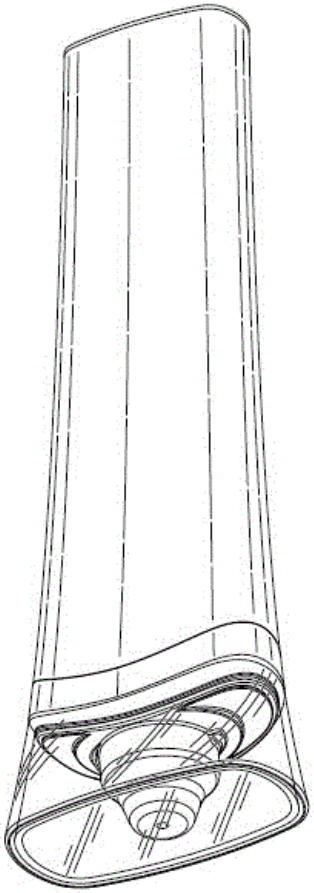


Figure 1

Three-dimensional view

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21: A2021/01177 22: 2021-09-29 23:
43: 2021-03-30
52: Class 19 24: Part A
71: Barry Callebaut AG
33: HSIRID(CH) 31: DM/213561 32: 2021-03-30
**54: LABELS**
57: The claimed label variants are based on the stylised image of a fragment of a sloping branch of a cocoa tree with a leaf attached at the bottom and a cocoa fruit with characteristic longitudinal grooves, which is framed by circularly depicted word sequences along the circular arc and complement the visual basis of the composition, and between which, at the respective outer left and right points, opposing vertical circular cut-outs are arranged in the form of side arcs, with which the word sequences are visually continued towards each other.

Sole figure

Face-on view

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21: A2021/01276 22: 2021-10-08 23:
43: 2021-05-11
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 008536890-0001 32: 2021-05-11
**54: AUTOMOBILES**
57: The design is for an automobile, and in particular for a coupé having a silhouette with a tapered bonnet, a bow-shaped flowing windscreen and roofline, and a gently curved rear. A pair of rearwardly extending oval headlights are provided toward a front of the automobile with an oval rectangular radiator grille with horizontal slats being provided below each headlight. In top view, wheel arches bulge outwardly over the rear tyres. The rear includes an elongate grille in front of or above a trapezium-shaped, upwardly projecting rear fin. A pair of slim elongate taillights and an elongate light bar wrap around the rear of the coupé. A short rear overhang is positioned below the taillights and light bar. A bottom of the rear includes a pair of square-shaped openings and a pair of round exhaust tailpipes.

Figure 1

Three-dimensional view

21: A2021/01560 22: 2021-12-23 23:
43: 2021-06-30
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402021100584.6 32: 2021-06-30
**54: MOTOR VEHICLES**
57: The design is for a motor vehicle comprising a body with gently upwardly curved front overhang extending to a curved continuous silhouette of a short bonnet, a prominent windscreen, and roofline, extending downwardly and outwardly to a prominent rear window, and a downwardly curved rear overhang. The bonnet defines a central recessed channel. The front overhang includes a pair of spaced-apart prominent upwardly curved trapezium recesses. Side windows extend continuously from the windscreen past each rear door to end in a C-shaped kink. Large round wheel arches are positioned over tyres with prominent circular central portions. The rear overhang includes a curved swage line above a central recess flanked by upwardly curved trapezoid recesses. A centrally positioned fin protrudes outwardly and rearwardly from the roofline over the rear window.

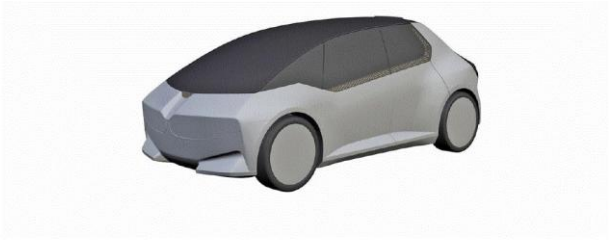

Figure 1

Three-dimensional view

21: A2022/00017 22: 2022-01-05 23:
43: 2021-07-06
52: Class 12 24: Part A
71: Group Lotus Limited
33: GB 31: 6147240 32: 2021-07-06
**54: GEAR LEVERS**
57: The design is for a gear lever which comprises an elongate curved body which includes a first lower portion and a second raised upper portion marginally above the lower portion. The lower portion extends upward from a base. The lower portion is convexly curved. The upper portion includes a marginally swollen top which is marginally raised compared to the lower portion. Opposing sides of the upper portion define a roughly triangular aperture therethrough.

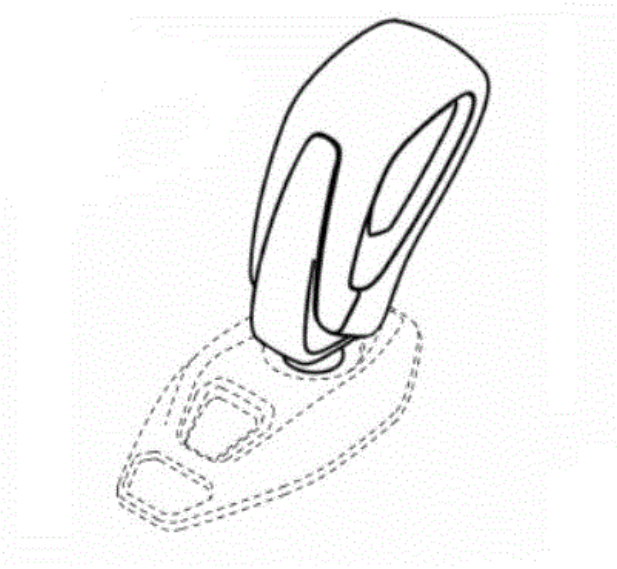

Figure 1

Three-dimensional view

21: A2022/00267 22: 2022-03-16 23:
43: 2021-09-16
52: Class 13 24: Part A
71: Clearvue Technologies Ltd
33: AU 31: 202115651 32: 2021-09-16
**54: GLASS PANELS**
57: The design is for a glass panel. The glass panel comprises an elongate, rectangular body having a major glass panel portion that is delineated by a peripheral, rectangular inner border. The inner border is in the form of an inset solar cell. The glass panel also has a peripheral outer border that is rectangular in shape. A peripheral minor glass panel portion is provided between the outer border and inner border.

Figure 1

Three-dimensional view

21: A2022/00389 22: 2022-04-11 23:
43: 2021-10-12
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402021100936.1 32: 2021-10-12
**54: MOTOR VEHICLES**
57: The design is for a motor vehicle comprising a front face with a pair of octagonal kidney grilles with horizontal slats, a pair of slim headlights and a lower pair of rectangular lights. A lower recessed portion of the front face includes a rectangular air-intake grille and is flanked by a pair of elongate air-intake grilles. A central front portion of a bonnet is recessed to accommodate a badge. Sides of the bonnet are recessed. A longitudinal swage line runs along each side below each window, slanting upwards at a rear. A prominent elongate recess extends along a lower portion of the sides. A central portion of the curved roof is recessed. A rear face includes a pair of elongate taillights with ends flaring outwards and curving upwardly along each side to a triangular end. A pair of sharply defined triangular recesses are positioned above a pair of two vertically stacked hexagonal exhaust tailpipes.

Figure 1

Three-dimensional view

21: A2022/00653 22: 2022-06-14 23:
43: 2021-12-15
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202130829869.8 32: 2021-12-15
**54: MEMORY CARDS**
57: A card, comprising ten contacts which are disposed on a surface of the card; wherein the card comprises four edges which comprises a first edge, a second edge, a third edge and a fourth edge; wherein there is a chamfer located between the first edge and the third edge; a distance between the first edge and the second edge is greater than a distance between the third edge and the fourth edge; five contacts of the ten contacts are distributed in a first row and are sequentially distributed along the first edge; and other five contacts of the ten contacts are distributed in a second row and are sequentially distributed along the second edge.

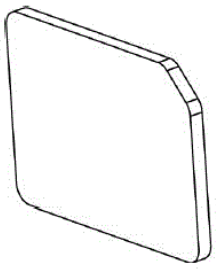

Figure 1

Three-dimensional view

21: A2022/00655 22: 2022-06-14 23:
43: 2021-12-15
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202130829869.8 32: 2021-12-15
**54: MEMORY CARDS**
57: A card, comprising ten contacts which are disposed on a surface of the card; wherein the card

comprises four edges which comprises a first edge, a second edge, a third edge and a fourth edge; wherein there is a chamfer located between the first edge and the third edge; a distance between the first edge and the second edge is greater than a distance between the third edge and the fourth edge; five contacts of the ten contacts are distributed in a first row and are sequentially distributed along the first edge; and other five contacts of the ten contacts are distributed in a second row and are sequentially distributed along the second edge.

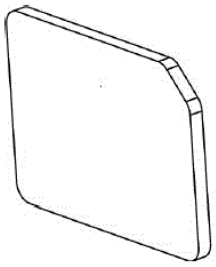

Figure 1

Three-dimensional view

21: A2022/00656 22: 2022-06-14 23:
43: 2021-12-15
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202130829869.8 32: 2021-12-15
**54: MEMORY CARDS**
57: A card, comprising ten contacts which are disposed on a surface of the card; wherein the card comprises four edges which comprises a first edge, a second edge, a third edge and a fourth edge; wherein there is a chamfer located between the first edge and the third edge; a distance between the first edge and the second edge is greater than a distance between the third edge and the fourth edge; five contacts of the ten contacts are distributed in a first row and are sequentially distributed along the first edge; and other five contacts of the ten contacts are distributed in a second row and are sequentially distributed along the second edge.

Figure 1

Three-dimensional view

21: A2022/00657 22: 2022-06-14 23:
43: 2021-12-15
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202130829869.8 32: 2021-12-15
**54: MEMORY CARDS**
57: A card, comprising ten contacts which are disposed on a surface of the card; wherein the card comprises four edges which comprises a first edge, a second edge, a third edge and a fourth edge; wherein there is a chamfer located between the first edge and the third edge; a distance between the first edge and the second edge is greater than a distance between the third edge and the fourth edge; five contacts of the ten contacts are distributed in a first row and are sequentially distributed along the first edge; and other five contacts of the ten contacts are distributed in a second row and are sequentially distributed along the second edge.

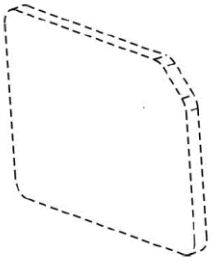

Figure 1

Three-dimensional view

21: A2022/00658 22: 2022-06-14 23:
43: 2021-12-15

52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202130829869.8 32: 2021-12-15
**54: MEMORY CARDS**
57: A card, comprising ten contacts which are disposed on a surface of the card; wherein the card comprises four edges which comprises a first edge, a second edge, a third edge and a fourth edge; wherein there is a chamfer located between the first edge and the third edge; a distance between the first edge and the second edge is greater than a distance between the third edge and the fourth edge; five contacts of the ten contacts are distributed in a first row and are sequentially distributed along the first edge; and other five contacts of the ten contacts are distributed in a second row and are sequentially distributed along the second edge.

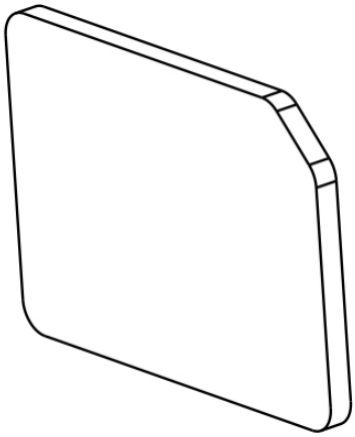

Figure 1

Three-dimensional view

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21: A2022/00659 22: 2022-06-14 23:
43: 2021-12-15
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202130829869.8 32: 2021-12-15
**54: MEMORY CARDS**
57: A card, comprising ten contacts which are disposed on a surface of the card; wherein the card comprises four edges which comprises a first edge, a second edge, a third edge and a fourth edge; wherein there is a chamfer located between the first edge and the third edge; a distance between the first edge and the second edge is greater than a distance between the third edge and the fourth edge; five contacts of the ten contacts are distributed in a first row and are sequentially distributed along the first edge; and other five contacts of the ten contacts are distributed in a second row and are sequentially distributed along the second edge.

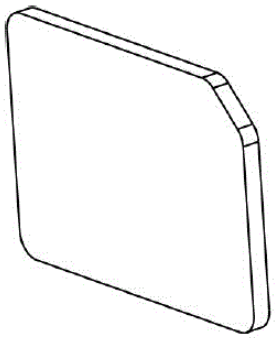

Figure 1

Three-dimensional view

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21: A2022/00660 22: 2022-06-14 23:
43: 2021-12-15
52: Class 14 24: Part A
71: Huawei Technologies Co., Ltd.
33: CN 31: 202130829869.8 32: 2021-12-15
**54: MEMORY CARDS**
57: A card, comprising eleven contacts which are disposed on a surface of the card; wherein the card comprises four edges which comprises a first edge, a second edge, a third edge and a fourth edge; wherein there is a chamfer located between the first edge and the third edge; a distance between the first edge and the second edge is greater than a distance between the third edge and the fourth edge; five contacts of the eleven contacts are distributed in a first row and are sequentially distributed along the first edge; and other six contacts of uneven length are distributed along the second edge. One contact adjacent to the chamfer has an inclined end whilst a diagonally opposing contact is longer than the remaining contacts. Immediately adjacent to the longer contact is a pair of linear contacts.

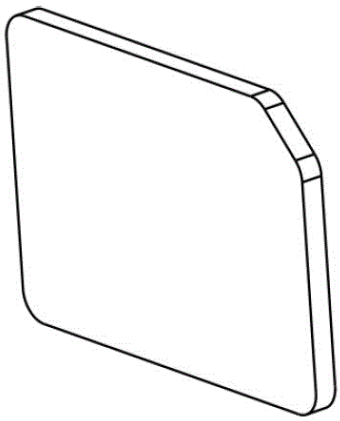

Figure 1

Three-dimensional view

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21: A2022/01006 22: 2022-08-26 23:
43: 2022-02-28
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402022100206.8 32: 2022-02-28
**54: MOTOR VEHICLES**
57: The design is for a motor vehicle, and in particular for a two-door coupé, comprising a body with a short straight front overhang extending to a curved bonnet, an upwardly inclined windscreen, a roofline with an outwardly extending curved rear fin, a short inclined rear window, a recessed tailgate and a protruding rear overhang. An octagonal front face includes an upper trapezium-shaped grille and a lower trapezium-shaped air-intake grille, separated by a rectangular mid-section. A pair of prominent rearwardly inclined round light clusters flank the front face. A trapezium-shaped recess extends along a lower portion of each side of the body. A rear face includes a pair of triangular rear light clusters at either end of an elongate tail bar.

Figure 1

Three-dimensional view

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21: A2022/01126 22: 2022-09-21 23:
43: 2022-03-29
52: Class 10 24: Part A
71: LVMH Swiss Manufactures SA
33: HSIRID(CH) 31: DM/219937 32: 2022-03-29
**54: CASES FOR WATCHES**
57: The design is for a case for a watch and in particular for a chronograph watch. The watch has a circular body which includes a circular bezel with peripherally spaced numerals, a middle case portion and a case back. Each of the top and bottom end of the case includes a pair of band attachment arms which are rearwardly inclined. A dial of the watch comprises three circular subdials. A fluted crown is located in the middle case portion at a three o' clock position. A protruding button is located in the middle case portion at a two o'clock position and at a four o'clock position. The middle case portion and band attachment arms are studded with irregularly sized trapezium shaped ornamental elements. Internal mechanisms are visible through the case back.

Figure 1

Three-dimensional view

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21: A2022/01151 22: 2022-09-28 23:
43: 2022-03-29
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402022100271.8 32: 2022-03-29
**54: MOTOR VEHICLES**
57: The design is for a motor vehicle, specifically a two-door fastback. The front of the motor vehicle has a pantheon-shaped grille. On either side of the grille are quadrangular headlights, horizontally elongated with an inner lateral side inclined outwards. Above each headlight there is one horizontally oriented stripe-like lighting element, longer than the headlight. A bonnet of the motor vehicle has angular recessed contour lines making the center of the bonnet

pronounced relative to its sides. A skirt is provided between the front and rear wheel arches. Outwardly projecting horizontally arranged door handles are provided on each door. A roof of the motor vehicle is gently curved and a rearwardly inclined large rear window is provided between the roof and a trunk. The trunk has a hexagonal outline. Vertically arranged rear lights are provided on either side of the trunk. Each rear light has laterally spaced, vertically arranged ribs.

Figure 1

Three-dimensional view

21: A2022/01509 22: 2022-11-22 23:
43: 2022-05-23
52: Class 12 24: Part A
71: Automobili Lamborghini S.p.A.
33: EM(IT) 31: 009039043-0001 32: 2022-05-23
**54: VEHICLES**
57: The design is for a vehicle/scale mode vehicle of a super sport car. The front bumper connects to a suspended bonnet while the new diffuser leaves part of the rear tire visible. The engine cover is directly exposed while the new high hexagonal exhaust recall the traditional shape all around the car. The vehicle's front and rear lighting system features a new "Y" signature shape. The side lower rocker splits in two parts around the scissor doors opening with the rear portion proudly showcasing the vehicle's name. The double bubble greenhouse embodies diagonal lines without compromising its roominess and functionality.

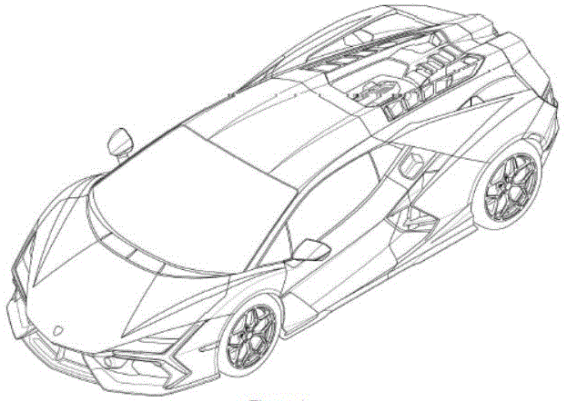

Figure 1

Three-dimensional view

21: A2022/01510 22: 2022-11-22 23:
43: 2022-05-23
52: Class 21 24: Part A
71: Automobili Lamborghini S.p.A.
33: EM(IT) 31: 009039043-0001 32: 2022-05-23
**54: SCALE MODEL VEHICLES**
57: The design is for a vehicle/scale mode vehicle of a super sport car. The front bumper connects to a suspended bonnet while the new diffuser leaves part of the rear tire visible. The engine cover is directly exposed while the new high hexagonal exhaust recall the traditional shape all around the car. The vehicle's front and rear lighting system features a new "Y" signature shape. The side lower rocker splits in two parts around the scissor doors opening with the rear portion proudly showcasing the vehicle's name. The double bubble greenhouse embodies diagonal lines without compromising its roominess and functionality.

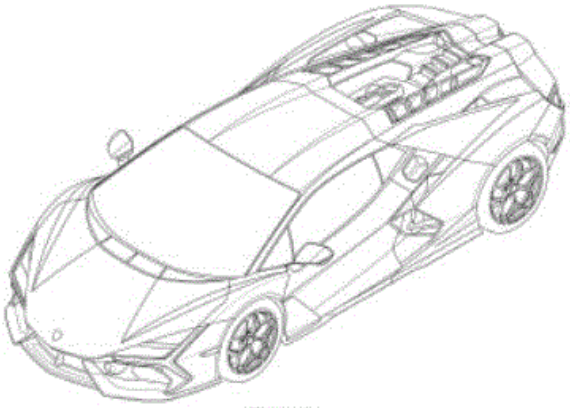

Figure 1

Three-dimensional view

21: A2022/01696 22: 2022-12-22 23:
43: 2022-06-29
52: Class 10 24: Part A
71: Turlen Holding SA
33: HSIRID(CH) 31: DM/223844 32: 2022-06-29
**54: WATCH MECHANISMS**
57: The design is for a watch mechanism. The watch mechanism includes a planar housing which has an irregular outline in plan. Multiple watch mechanism components, including gears, are housed within the housing. Some of the gears protrude beyond the outline of the housing. A rear base of the housing has apertures rendering some of the watch mechanism components visible through the rear base, whereas a front of the housing has several covers that allow even more of the watch mechanism components to be visible.

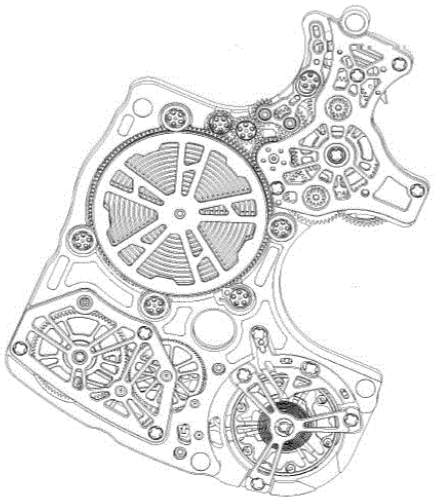

Figure 1

Three-dimensional view

21: A2022/01697 22: 2022-12-22 23:
43: 2022-07-01
52: Class 7 24: Part A
71: Société des Produits Nestlé S.A.
33: CH 31: 146836 32: 2022-07-01
**54: COFFEE MACHINES**
57: The design is for a coffee machine having a body comprising front, middle and rear portions, each of which is generally rectangular in cross section with rounded edges, and a support structure of circular cross section is located at a foot of the middle portion and adjacent to the front portion. The front and middle portions provide respective dispensing mechanisms, wherein the dispensing mechanism provided by the middle portion connects to a container located atop the middle portion, having a cylindrical portion and an elongate portion projecting rearwardly therefrom. An upper part of the cylindrical portion provides a frustoconical formation having an elongate protrusion extending generally forwardly therefrom. Atop the front and middle portions operating buttons are located.

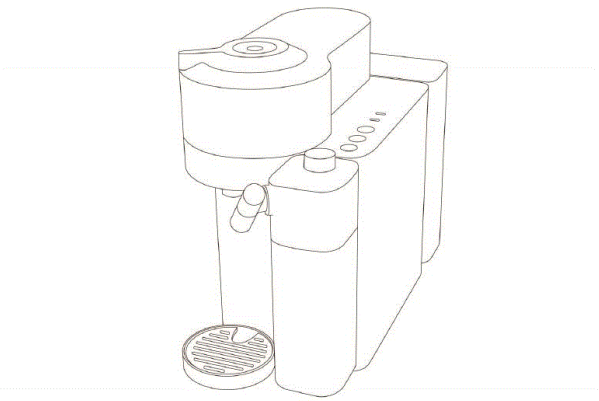

Figure 1

Three-dimensional view

21: A2023/00054 22: 2023-01-11 23:
43: 2022-07-12
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 202230440490.2 32: 2022-07-12
**54: CARS**
57: The design is for a car comprising a body having an engine compartment, a passenger compartment and a luggage compartment. The body has a silhouette with a tapered bonnet, a bow-shaped flowing windscreen and roofline, and a gently curved rear. A front face of the car, devoid of a radiator grille, defines horisontally spaced, recessed triangular mesh-form lights. A horisontal light bar with rearwardly extending end portions extends across an upper portion of the front face. Below each end portion of the light bar a headlamp cluster with three evenly spaced rectangular light beads is provided. From the side, the car has a flexible waistline and a sharp skirt line. Door handles are flush with the doors. A layered rear has an integrated spoiler and a through-type taillight group with tapering forwardly extending end portions.

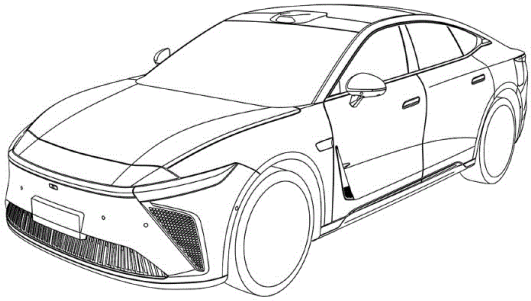

Figure 6

Three-dimensional view

21: A2023/00766 22: 2023-07-10 23:
43: 2023-01-11
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402023100010.6 32: 2023-01-11
**54: MOTOR VEHICLES**
57: The design is for a motor vehicle, specifically a two-door roadster. The motor vehicle has a long substantially rectangular-shaped bonnet with recessed horizontally extending outer portions. A pantheon-shaped grille that features vanes bending slightly near the top is provided at the front. Headlights that extend towards the grille are provided on either side. An elongate air intake meshed grille is provided at the bottom portion of the front bumper. The motor vehicle has two doors, and a long wheelbase with pronounced wheel arches. The sides of the motor vehicle are substantially rectangular in shape. A roof extends rearwardly, and an overhanging portion thereof is supported by upright laterally spaced members. A trunk is recessed, and a short, curved spoiler extends rearwardly therefrom. Vertically arranged rear lights are provided on the outer edges of the curved rear portion.

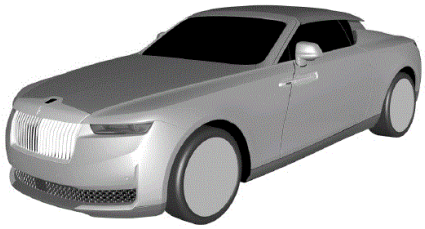

Figure 1

Three-dimensional view

21: A2023/00872 22: 2023-07-28 23:
43: 2023-05-04
52: Class 8 24: Part A
71: Plasson Ltd.
33: HSIRID(IL) 31: DM/228771 32: 2023-05-04
**54: ADJUSTABLE PIPE JOINTS**
57: The design is for a pipe joint. The pipe joint includes a first joint member and a second joint member. The first joint member has a part spherical portion which is positioned within and angularly displaceable relative to a part spherical portion of the second joint member. Each of the first and second joint members has a tubular portion protruding from their respective spherical portions such that the tubular portions protrude generally in opposite directions , respective of the angular displacement of the spherical portions. A recess extends from an edge of the part spherical portion of the second joint member to accommodate angular displacement of the tubular portion of the first joint member. Diametrically opposed bayonet-type fitting recesses are provided in a free edge of the tubular portion of the second joint portion. Each of the first and second joint members is split longitunally into two halves which are bolted together.

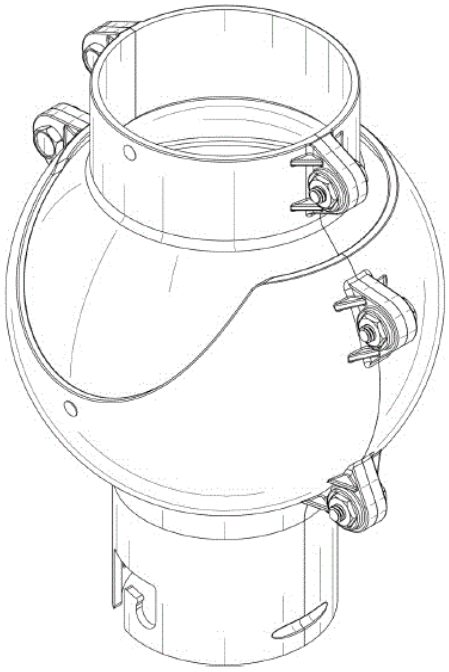

Figure 1

Three-dimensional view

21: A2023/00874 22: 2023-07-28 23:
43: 2023-01-30
52: Class 2 24: Part A
71: Crocs, Inc.
33: US 31: 29/883,517 32: 2023-01-30
**54: FOOTWEAR**
57: The design is applied to a footwear in the form of an open-toe sandal. The footwear has a sole and a strap that extends from the sides of the sole and partly covers a portion of an upper face of the sole that is spaced from the front of the sole. A meandering pattern of spaced and intertwined ridges is provided on the strap. A ribbed pattern, which takes the form and shape of an underside of a foot, is provided on the upper face of the sole. A vertically arranged, oval-shaped textured formation is provided on a bigger toe side of the upper face of the sole. A slanted, oval-shaped textured formation is spaced from the vertically arranged, oval-shaped formation and spans the front portion of the upper face of the sole. A y-shaped ridge separates the oval-shaped formations.

Figure 1

Three-dimensional view

21: A2023/01077 22: 2023-10-04 23:
43: 2023-05-02
52: Class 15 24: Part A
71: SOMIC Verpackungsmaschinen GmbH & Co. KG
33: EM(DE) 31: 015020287 32: 2023-05-02
**54: HOUSINGS FOR PACKAGING MACHINES**
57: The design is for a housing for a packaging machine. The housing comprises a pair of opposite rectangular shaped side walls supported by axially spaced apart upright columns supported above the ground by upstanding support members. The housing has a pair of opposite rectangular shaped end walls supported by laterally spaced apart upright columns. A rectangular roof and base are provided. Each of the rectangular side walls comprises of interconnected rectangular panels. The panels on one of the side walls includes a pair of centrally located panels in the form of double doors, each having upright, elongate handles. The outermost panel on the said one of the side walls also includes a panel in the form of a door which also has an upright, elongate handle on its side. Each of the front and rear end walls have minor and major rectangular panels in the form of doors fitted with handles.

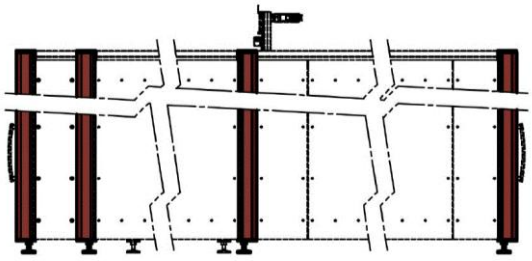

Figure 1

Front view

21: A2023/01078 22: 2023-10-04 23:
43: 2023-05-02
52: Class 15 24: Part A

71: SOMIC Verpackungsmaschinen GmbH & Co. KG
33: EM(DE) 31: 015020287 32: 2023-05-02
**54: HOUSINGS FOR PACKAGING MACHINES**
57: The design is for a housing for a packaging machine. The housing comprises a pair of opposite rectangular shaped front and rear walls supported by spaced apart upright columns supported above the ground by upstanding support members. The housing has a pair of opposite rectangular shaped end walls supported by laterally spaced apart upright columns. A rectangular roof and base are provided. Each of the front and rear walls have a major panel portion and a minor panel portion spaced from each other by an intermediate column. The major panel portion of the front wall comprises interconnected rectangular panels in the form of doors. The rear wall comprises rectangular panels on both the major and minor panel portions. Each of the end walls have a major rectangular panel and minor rectangular panels on either side of the major rectangular panel of the end wall.

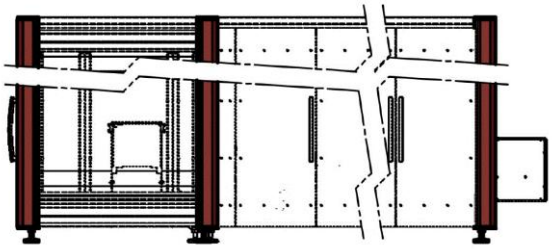

Figure 1

Front view

21: A2023/01079 22: 2023-10-04 23:
43: 2025-06-05
52: Class 15 24: Part A
71: SOMIC Verpackungsmaschinen GmbH & Co. KG
33: EM 31: 015020287 32: 2023-05-02
33: EM 31: 015020287 32: 2023-05-25
**54: HOUSINGS FOR PACKAGING MACHINES**
57: The design is for a housing for a packaging machine. The housing comprises a pair of opposite rectangular shaped front and rear walls supported by spaced apart upright columns supported above the ground by upstanding support members. The housing has a pair of opposite rectangular shaped end walls supported by laterally spaced apart upright columns. Each of the front and rear walls have a major panel portion and a minor panel portion spaced from each other by an intermediate column. The major panel portion of the front wall comprises rectangular panels in the form of stackable, sliding doors. The rear wall comprises rectangular panels on both the major and minor panel portions. One of the end walls has laterally spaced apart hinged rectangular doors. The other end-wall has laterally sliding doors. An arrangement of illuminating lights which can be selectively adjusted to various colours, is fitted inside the housing for providing illumination inside the housing.

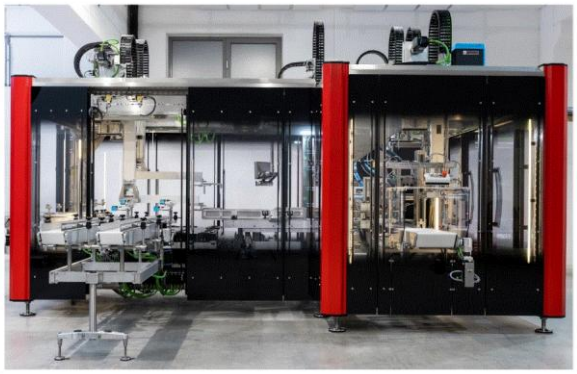

Figure 1

Front view showing a housing with white illuminating light

21: A2023/01080 22: 2023-10-04 23:
43: 2023-05-02
52: Class 15 24: Part A
71: SOMIC Verpackungsmaschinen GmbH & Co. KG
33: EM(DE) 31: 015020287 32: 2023-05-02
**54: HOUSINGS FOR PACKAGING MACHINES AND PARTS THEREOF**
57: The design is for a housing for a packaging machine. The housing comprises a plurality of panels on the front, rear and end walls thereof. A coating is applied across the top and bottom panel. The coating is made up of a concentrated region of non-transparent dots which are not spaced apart from each other. The size of the dots gradually changes from larger sized dots to smaller sized dots and the space between the dots also gradually increases as the coating approaches the center of the panel. The concentration of the dots gradually changes such that the spacing between adjacent dots gradually increases from the concentrated region to an unconcentrated region of dots which is closer to the center of the panel. The space between the dots is transparent and the spacing between the dots gradually increases as the concentration and size of the dots decreases.

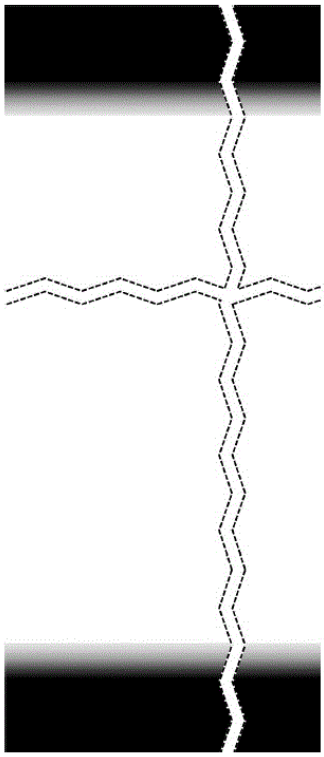

Figure 1

Front view

21: A2023/01101 22: 2023-10-11 23:
43: 2023-04-12
52: Class 31 24: Part A
71: Hemro International AG
33: HSIRID(CH) 31: 970179347 32: 2023-04-12
**54: COFFEE GRINDERS**
57: The design is for a coffee grinder that includes a stadium-shaped base, an upright part that projects upwardly from a rear portion of the base, and an upper cylindrical part that is arranged transversely to the upright part. A circular tray is provided at a front portion of the base. The upright part has upwardly tapering sidewalls and major front and rear trapezium-shaped faces. The rear face is rearwardly inclined and includes a pattern of closely spaced apart, vertically arranged elongate members. A dial is provided on one of the sidewalls of the upright part. A crown shaped symbol is embossed at a rear of the cylindrical part. A textured dial is provided at the front of the cylindrical part. A hopper projects upwardly from the centre of the cylindrical part. A conduit, that is inwardly spaced from the front of the cylindrical part, projects downwardly from the cylindrical part. An abutment member engages the conduit on one side and a handle member connected to the abutment member extends outwardly on the opposite side of the conduit.

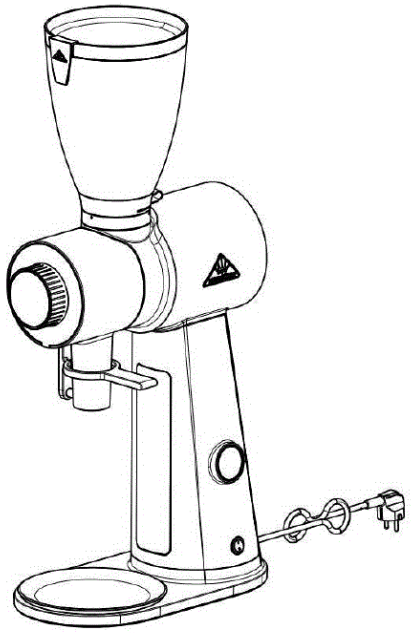

Figure 1

Three-dimensional view

21: A2023/01222 22: 2023-11-14 23:
43: 2023-08-11
52: Class 9 24: Part A
71: UPL Mauritius Limited
33: IN 31: 392567-001 32: 2023-08-11
**54: CONTAINERS**
57: The design is for a container. The container has an upright cylindrical body. A circular ring-shaped member is inwardly spaced from an outer edge of the cylindrical body at an upper end thereof. An octagonal prism shaped lid protrudes from the ring-shaped member.

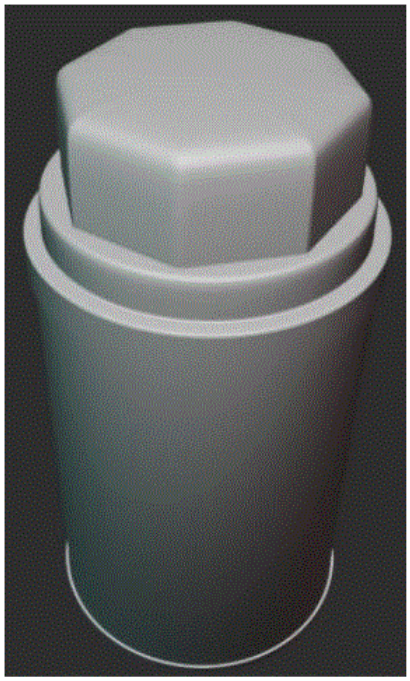

Figure 1

Three-dimensional view

21: A2023/01411 22: 2023-12-12 23:
43: 2023-10-27
52: Class 12 24: Part A
71: Omni United (S) PTE Ltd.
33: US 31: 29/905,930 32: 2023-10-27
**54: TYRES AND TYRE TREAD SIDEWALLS**
57: The design is a decorative element disposed around the edges of a tyre sidewall wherein the design has sections of undulating curved lines with bent portions at the ends of the curved sections.

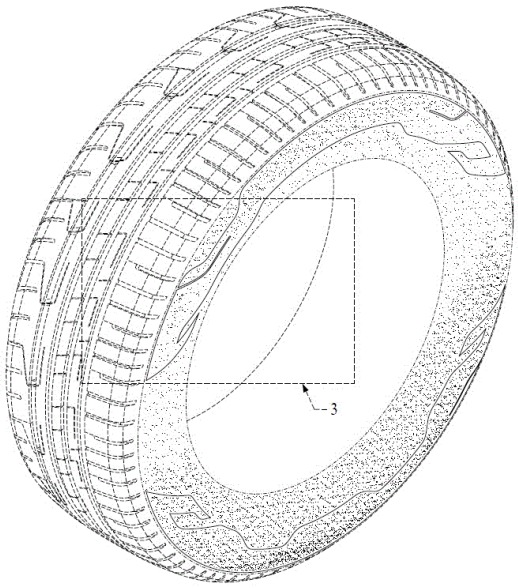


Figure 1
Three-dimensional view

21: A2023/01438 22: 2023-12-18 23:
43: 2023-08-21
52: Class 2 24: Part A
71: Skechers U.S.A., Inc. II
33: US 31: 29/910,506 32: 2023-08-21
**54: FOOTWEAR**
57: The design is for a footwear. The footwear has two symmetrically placed chevrons with a rearward facing apex adjacent to a contoured heel cup with an extended rearward facing collar.

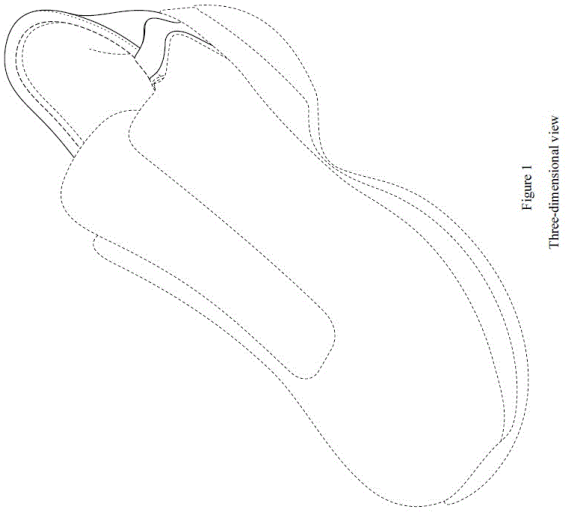

Figure 1
Three-dimensional view

21: A2023/01439 22: 2023-12-18 23:
43: 2023-08-21
52: Class 2 24: Part A
71: Skechers U.S.A., Inc. II

33: US 31: 29/910,506 32: 2023-08-21
**54: FOOTWEAR**
57: The design is for a footwear. The footwear has two symmetrically placed chevrons on the heel counter, each chevron having a rearward facing apex.

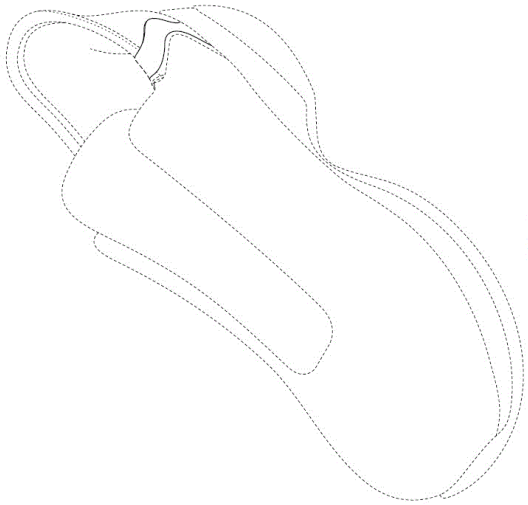
Figure 1
Three-dimensional view

21: A2023/01440 22: 2023-12-18 23:
43: 2023-08-21
52: Class 2 24: Part A
71: Skechers U.S.A., Inc. II
33: US 31: 29/910,506 32: 2023-08-21
**54: FOOTWEAR**
57: The design is for a footwear. The footwear has two symmetrically placed chevrons with a rearward facing apex adjacent to a textured heel cup with a woven surface.

Figure 1
Three-dimensional view

21: A2023/01441 22: 2023-12-19 23:
43: 2023-06-20
52: Class 2 24: Part A
71: Skechers U.S.A., Inc. II
33: US 31: 29/878,356 32: 2023-06-20
**54: FOOTWEAR**
57: The design is for a footwear. The footwear has a counter at a rear thereof. A central, non-standard curved major portion, that is substantially shaped as a trapezoid with gently curved edges when viewed from the rear, is provided on the rear of the counter and partly wraps the bottom sides of the counter. Downwardly curved elongated members, which are substantially kidney-shaped, are provided at the top of each counter and extend along the sides of the counter. Each downwardly curved elongated member has a larger rounded portion at a first end thereof that is located at the rear end of the counter and a smaller rounded portion at a front end thereof.

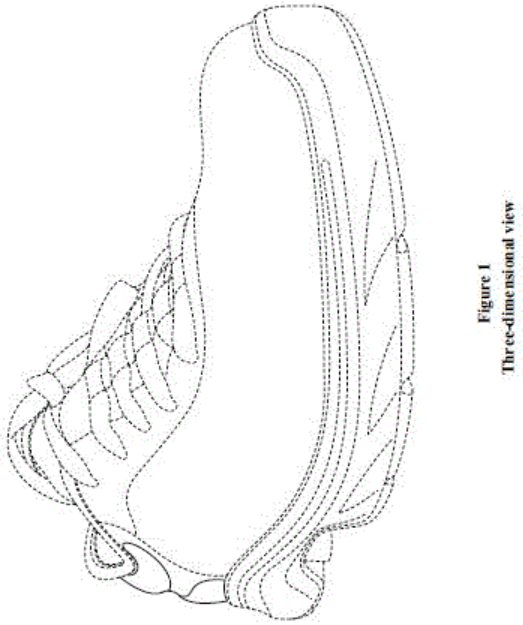
Figure 1
Three-dimensional view

21: A2023/01459 22: 2023-12-20 23:
43: 2023-06-30
52: Class 2 24: Part A
71: Skechers U.S.A., Inc. II
33: US 31: 29/879,076 32: 2023-06-30
**54: FOOTWEAR**
57: The design is for a footwear. The footwear has a sole that has a midsole and outsole. The midsole includes an elongate forwardly extending part, a shorter rearwardly extending part, and a gently waisted central portion. A front portion of the forwardly extending part has outwardly curved sides. A raised front portion of the midsole has a pointed toe portion which the front sides of the midsole

converge into. Wavy line patterns extend horizontally across the midsole in a thin wedge pattern. Kink-shaped formations with rounded edges are provided on an upper edge of the midsole. A plurality of spaced apart, trapezoidal tooth-shaped formations protrude from an outer edge of the outsole portion.

Figure 1
Three-dimensional view

21: A2024/00559 22: 2024-06-13 23:
43: 2023-07-14
52: Class 28 24: Part A
71: Jemella Group Limited
**54: HAIR IRONS**
57: The design is for a hair straightener iron comprising a pair of arms and a base interconnected by a Y-shaped section. The arms are elongate and contoured and taper slightly towards the Y-shaped section which has a contoured semi-circular recess at its top. A power button is provided on an inner surface of one of the arms and has a gloss effect. A halo ring light is incorporated near the base, which illuminates when the iron is switched on.

Figure 8
Three-dimensional view in open/off configuration

21: A2024/00563 22: 2024-06-13 23:
43: 2023-12-14
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402023100896.4 32: 2023-12-14
**54: MOTOR VEHICLES**
57: The design is for a motor vehicle, specifically a five-door SUV, having a short front overhang and a long bonnet and roofline. The front is characterised by a large, twin hexagonal radiator grille comprising vertically and diagonally arranged bars situated at the same height than the L-shaped headlights and above a lower, wide hexagonal air intake grill split into two with a horizontal bar and vertical bars flanked by two elongated vertical apertures. The bonnet has one pair of outwardly curved ridges at both sides with a levelled surface in between. The sides have large almost squared-off wheel arches emphasised by almost squared-off swage lines above and two swage lines rising up towards the rear, one running almost parallel to the window surfaces and one to the door sill. The window surfaces taper towards the rear. The rear is characterised by several horizontal lines and T-shaped rear lights.

Figure 1

Three-dimensional view

21: A2024/00564 22: 2024-06-13 23:
43: 2023-12-14
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402023100896.4 32: 2023-12-14
**54: MOTOR VEHICLES**
57: The design is for a motor vehicle, specifically a five-door SUV, having a short front overhang, a long bonnet and roofline, and extended wheelbase. The front is characterised by a large, twin hexagonal radiator grille comprising vertically and diagonally arranged bars situated at the same height than the L-shaped headlights and above a lower, wide hexagonal air intake grill split into two with a horizontal bar and vertical bars flanked by two elongated, vertical almost triangular apertures. The bonnet has one pair of outwardly curved ridges at both sides with a levelled surface in between. The sides have large almost squared-off wheel arches emphasised by almost squared-off swage lines above and two swage lines rising up towards the rear, one running almost parallel to the window surfaces and one to the door sill. The window surfaces taper towards the rear. The rear has several horizontal lines and T-shaped rear lights.

Figure 1

Three-dimensional view

21: A2024/00565 22: 2024-06-13 23:
43: 2023-07-14
52: Class 28 24: Part A
71: Jemella Group Limited
**54: HAIR IRONS**
57: The design is for a hair straightener iron comprising a pair of arms and a base interconnected by a Y-shaped section. The arms are elongate and contoured and taper slightly towards the Y-shaped section which has a contoured semi-circular recess at its top. A power button is provided on an inner surface of one of the arms and has a matt effect. A halo ring light is incorporated near the base, which illuminates when the iron is switched on.

Figure 8

Three-dimensional view in open/off configuration

21: A2024/00566 22: 2024-06-13 23:
43: 2023-07-14
52: Class 28 24: Part A
71: Jemella Group Limited
**54: HAIR IRONS**
57: The design is for a hair straightener iron comprising a pair of arms and a base interconnected by a Y-shaped section. The arms are elongate and contoured and taper slightly towards the Y-shaped

section which has a contoured semi-circular recess at its top. A power button is provided on an inner surface of one of the arms. A halo ring light is incorporated near the base.

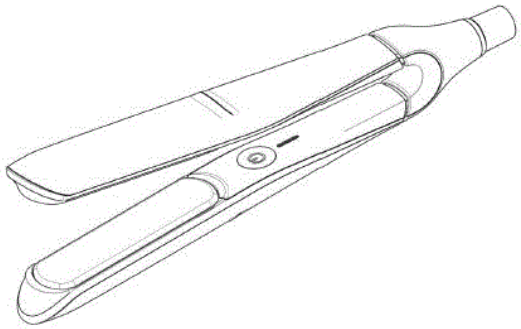

Figure 13

Three-dimensional view in open configuration

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21: A2024/00567 22: 2024-06-13 23:
43: 2023-07-14
52: Class 28 24: Part A
71: Jemella Group Limited
**54: HAIR IRONS**
57: The design is for a section of a hair straightener iron comprising a base featuring a halo ring light.

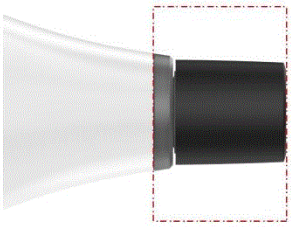

Figure 9

Illustrative sectional side view of halo-section in OFF configuration

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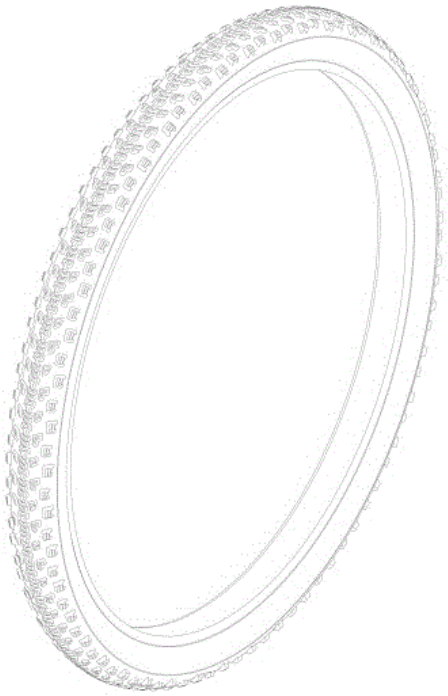
21: A2024/01005 22: 2024-10-03 23:
43: 2025-06-18
52: Class 09 24: Part A
71: Byredo AB
33: EU 31: 015055881 32: 2024-04-03
**54: FRAGRANCE PACKAGING**
57: The Pattern and/or shape and/or configuration and/or ornamentation of the fragrance package.

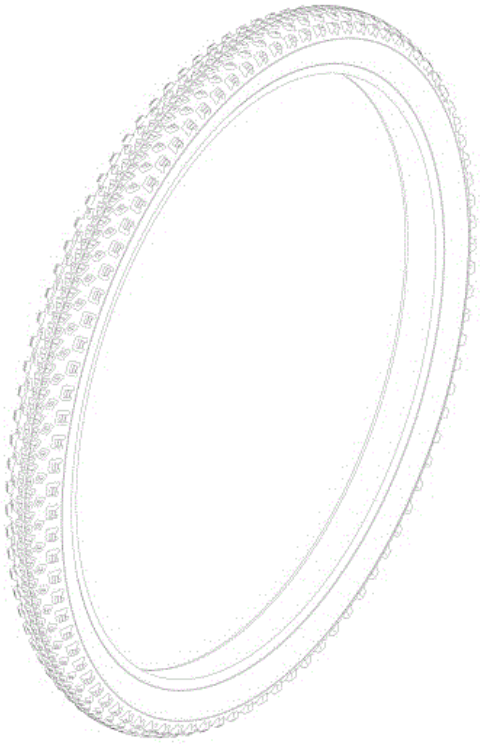
---

21: A2024/01007 22: 2024-10-04 23:
43: 2025-06-18
52: Class 12 24: Part A
71: COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
33: EU 31: 015058638-0001 32: 2024-04-25
**54: PNEUMATIC TYRE**
57: The design is to be applied to a pnuematic tyre. 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.



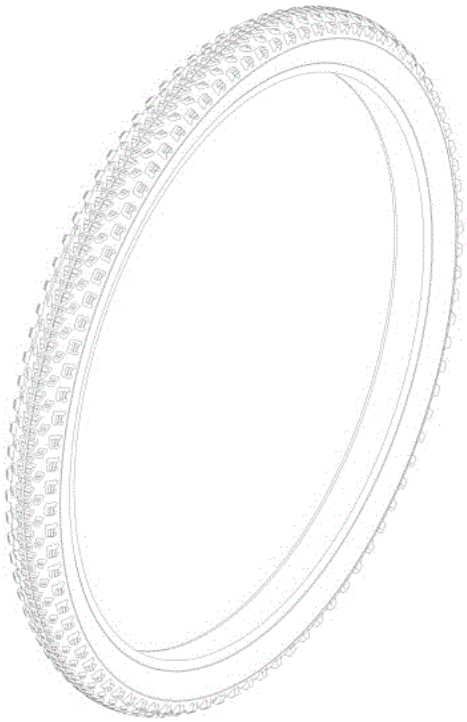
PERSPECTIVE VIEW

21: A2024/01008 22: 2024-10-04 23:
43: 2025-06-18
52: Class 12 24: Part A
71: COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
33: EU 31: 015058686-0001 32: 2024-04-25
**54: PNEUMATIC TYRE**
57: The design is to be applied to a pneumatic tyre. 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



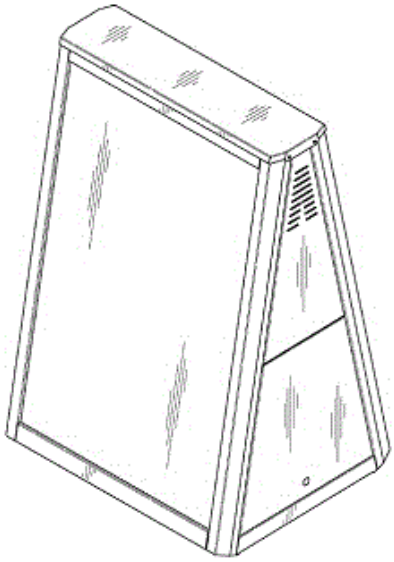
PERSPECTIVE VIEW

21: A2024/01009 22: 2024-10-04 23:
43: 2025-06-18
52: Class 12 24: Part A
71: COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
33: EU 31: 015058713-0001 32: 2024-04-25
**54: PNEUMATIC TYRE**
57: The design is to be applied to a pneumatic tyre. 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.



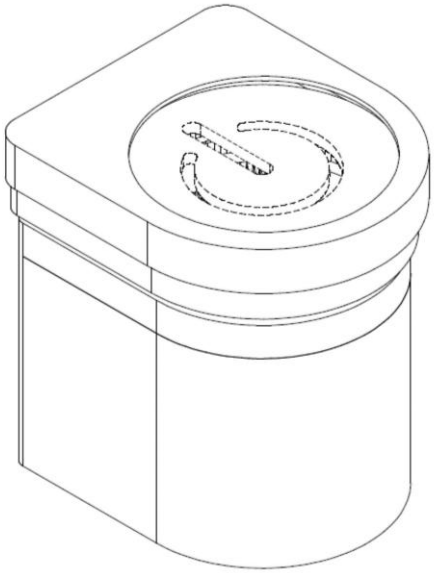
PERSPECTIVE VIEW

21: A2024/01017 22: 2024-10-08 23:
43: 2025-06-18
52: Class 20. 24: Part A
71: MAGNUM IP HOLDINGS B.V.
33: EM 31: 015057059-0001 32: 2024-04-10
**54: Display Board**
57: The design relates to a display board. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

21: A2024/01018 22: 2024-10-08 23:
43: 2024-06-23
52: Class 24 24: Part A
71: RHODES UNIVERSITY
**54: LABORATORY TOOLS**
57: The design is for a laboratory tool. The features of the design are illustrated in the overall appearance of the laboratory tool. It is the overall design of the laboratory tool that is claimed.



21: A2024/01152 22: 2024-11-12 23:
43: 2024-05-13
52: Class 1 24: Part A
71: McCain Foods Limited

33: BR 31: 30 2024 002293 0 32: 2024-05-13
**54: CONFECTIONERY ITEMS**
57: The design is for a confectionary item. The confectionary item has an elongate body with a roughly eight-pointed star cross section having flattened tips. A surface of the body is textured with irregularly shaped ridges.

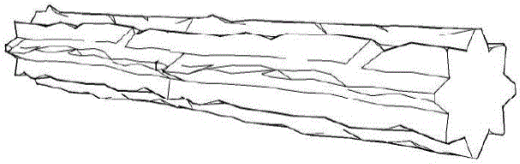


Figure 1
Three-dimensional view

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21: A2024/01154 22: 2024-11-14 23:
43: 2025-06-12
52: Class 09 24: Part A
71: TEQAL (PTY) LTD
**54: ROLL-ON CONTAINER**
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern and/or ornamentation of a roll-on container as shown in the accompanying representations, irrespective of the features shown in broken lines and irrespective of any colour, images or text applied to the roll-on container.

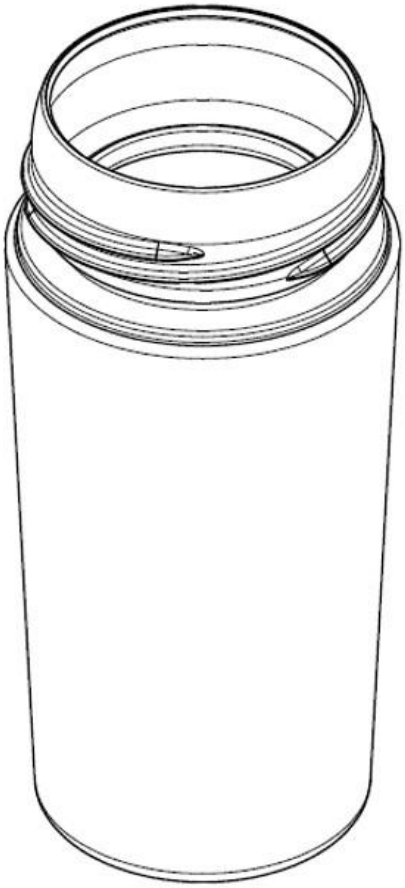

Figure 1
Perspective view of a roll-on container

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21: A2024/01156 22: 2024-11-15 23:
43: 2025-06-12
52: Class 2. 24: Part A
71: CONSITEX, S.A.
33: EM 31: 015060795-0002 32: 2024-05-17
**54: Shoe Decorations**
57: The design relates to shoe decorations. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

PERSPECTIVE VIEW

21: A2024/01157 22: 2024-11-15 23:
43: 2024-05-17
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 2024302935431 32: 2024-05-17
**54: AUTOMOBILES**
57: The design is for an automobile in the form of a sport utility vehicle. A pair of slender, swept-back headlights is integrated into a curvature of the bonnet. The headlights converge at an octagonal main grille having vertical slats arranged in parallel. Below the main grille is a wide U-shaped continuous grille that spans a width of the vehicle. Sides of the vehicle include swage lines extending from the headlights to taillights, and concealed door handles. The taillights echo the design of the headlights and wrap around the vehicle's C-pillar. A rear fascia is dominated by a sleek trunk lid and a continuous taillight design.

Figure 6

Three-dimensional view

21: A2024/01162 22: 2024-11-18 23:
43: 2025-06-11
52: Class 10. 24: Part A
71: OMEGA SA (OMEGA AG) (OMEGA LTD.)
33: IB 31: 149430 32: 2024-06-11
**54: Wristwatch**
57: The design relates to a wristwatch. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

FRONT VIEW

21: A2024/01163 22: 2024-11-18 23:
43: 2025-06-11
52: Class 10. 24: Part A
71: OMEGA SA (OMEGA AG) (OMEGA LTD.)
33: IB 31: 149430 32: 2024-06-11
**54: Wristwatch**
57: The design relates to a wristwatch. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

21: A2024/01164 22: 2024-11-18 23:
43: 2025-06-11
52: Class 10. 24: Part A
71: OMEGA SA (OMEGA AG) (OMEGA LTD.)
33: IB 31: 149430 32: 2024-06-11
**54: Wristwatch**
57: The design relates to a wristwatch. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

21: A2024/01166 22: 2024-11-18 23:
43: 2024-05-31
52: Class 07 24: Part A
71: Miracle Meal USA LLC
33: US 31: 29/945,232 32: 2024-05-31
**54: PRE-FILLED CUPS**
57: The design is a pre-filled communion cup. The cup has a body with a lower portion, about one third of a height, with a constant width, and an upper portion, about two thirds of the height, which diverges upwardly, thus having a frusto-conical appearance. The body has fluted contours spaced peripherally around and extending upwardly along its height. A lip is defined atop the body, the lip having a teardrop footprint. A flat, peel-off cover is provided on the lip with a matching teardrop shape.

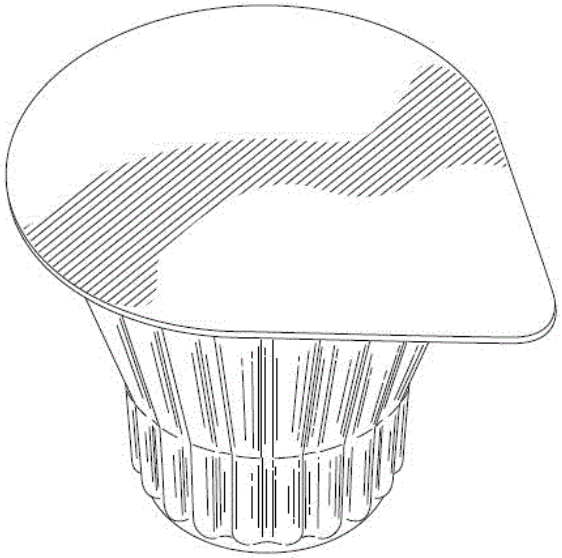
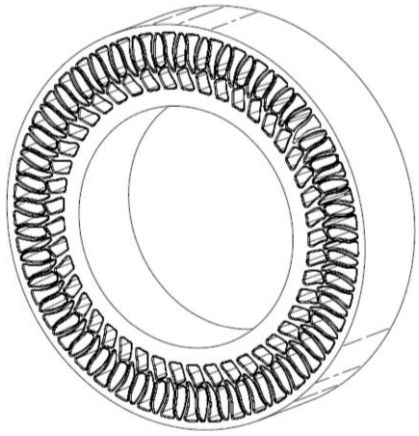


FIG. 1

Three-Dimensional View

21: A2024/01170 22: 2024-11-19 23:
43: 2024-11-19
52: Class 12 24: Part A
71: Terra Trak Technologies International (Proprietary) Limited
**54: An Insert for a Run Flat Tyre**
57: The design is for an insert for a run flat tyre. The insert has an annular body with two rows of circumferentially spaced apertures extending axially through the body. An inner row comprises a series of roughly quadrangular apertures. An outer row comprises two types of apertures which alternate. A first type of aperture is roughly teardrop shaped, and these apertures are radially aligned with the quadrangular apertures of the inner row. A second type of aperture is roughly canine shaped, and these apertures are circumferentially offset from the quadrangular apertures.



21: A2024/01180 22: 2024-11-21 23:
43: 2024-08-03
52: Class 32 24: Part A
71: SUITABILITY TAILORED SUITS (PTY) LTD.
**54: Surface Patterns**
57: The design is for a surface pattern. The surface pattern includes a first, second, third and fourth rows. The first row includes a repeating pattern of triangular-shaped members and inverted triangular-shaped members, wherein each triangular-shaped member has a dot located at the centre thereof. The second row includes a repeating pattern of a X-shaped member having V-shaped members in the spaces defined by the body of the X-shaped member, and a bowl-shaped member disposed next to the X-shaped member. The bowl-shaped member has an up and down zigzag line at the centre thereof. The third row includes a repeating pattern of V-shaped members and inverted V-shaped members. The fourth row includes various permutations of an arrangement of the following symbols: X-shaped symbol, a pair of mathematical less-than signs, a diamond-shaped symbol, and a pair of mathematical more-than signs.

21: A2024/01181 22: 2024-11-21 23:
43: 2024-08-03
52: Class 2 24: Part A
71: SUITABILITY TAILORED SUITS (PTY) LTD.
**54: Articles of Clothing**
57: The design is for articles of clothing, including garments and headwear, having a surface pattern. The surface pattern includes a first, second, third and fourth rows. The first row includes a repeating pattern of triangular-shaped members and inverted triangular-shaped members, wherein each triangular-shaped member has a dot located at the centre thereof. The second row includes a repeating pattern of a X-shaped member having V-shaped members in the spaces defined by the body of the X-shaped member, and a bowl-shaped member disposed next to the X-shaped member. The bowl-shaped member has an up and down zigzag line at the centre thereof. The third row includes a repeating pattern of V-shaped members and inverted V-shaped members. The fourth row includes various permutations of an arrangement of the following symbols: X-shaped symbol, a pair of mathematical less-than signs, a diamond-shaped symbol, and a pair of mathematical more-than signs.

21: A2024/01188 22: 2024-11-22 23:
43: 2025-06-11
52: Class 7. 24: Part A
71: SNGLS HOLDING & MANAGEMENT OÜ
33: EM 31: 015061360-0001 32: 2024-05-23
**54: Carafe**
57: The design relates to a carafe. The features of the design are those of shape and/or configuration and/or ornamentation.

PERSPECTIVE VIEW

21: A2024/01189 22: 2024-11-22 23:

43: 2025-06-11
52: Class 7. 24: Part A
71: SNGLS HOLDING & MANAGEMENT OÜ
33: EM 31: 015061360-0002 32: 2024-05-23
**54: Carafe**
57: The design relates to a carafe. The features of the design are those of shape and/or configuration and/or ornamentation.

PERSPECTIVE VIEW

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21: A2024/01190 22: 2024-11-22 23:
43: 2025-06-11
52: Class 7. 24: Part A
71: SNGLS HOLDING & MANAGEMENT OÜ
33: EM 31: 015061360-0003 32: 2024-05-23
**54: Carafe**
57: The design relates to a carafe. The features of the design are those of shape and/or configuration and/or ornamentation.

PERSPECTIVE VIEW

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21: A2024/01191 22: 2024-11-22 23:
43: 2025-06-11
52: Class 7. 24: Part A
71: SNGLS HOLDING & MANAGEMENT OÜ
33: EM 31: 015061360-0004 32: 2024-05-23
**54: Carafe**
57: The design relates to a carafe. The features of the design are those of shape and/or configuration and/or ornamentation.

PERSPECTIVE VIEW

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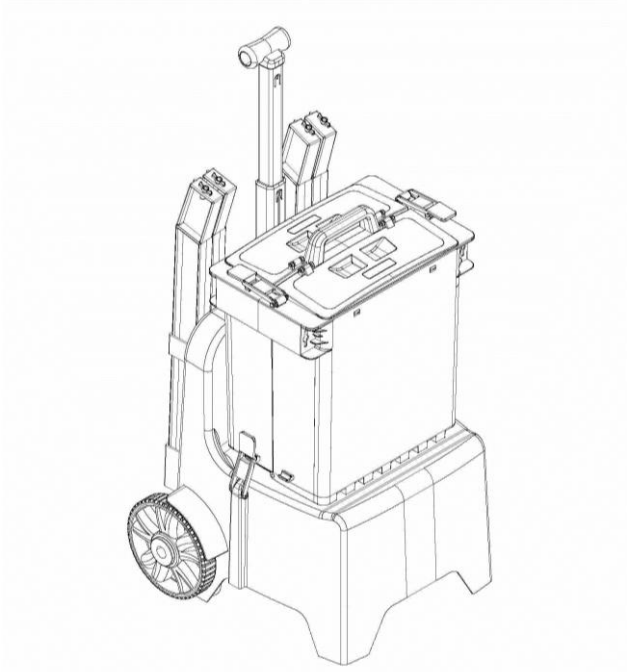
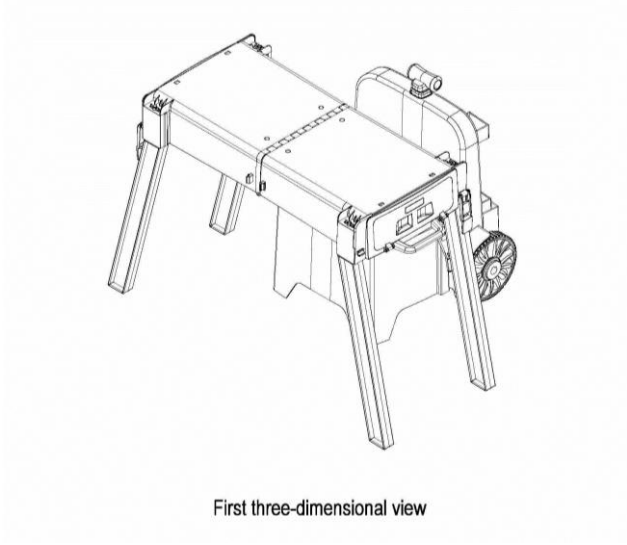
21: A2024/01192 22: 2024-11-22 23:
43: 2024-05-24
52: Class 3 24: Part A
71: MIDESK GLOBAL (PTY) LTD

**54: Travelling bags**
57: The design is for a bag substantially as shown in the accompanying representations which is configurable between erected and unerected conditions. The bag comprises a base, and a top. The base comprises a cuboidal body comprising a seat, a backrest, a pair of spaced apart feet, and a pair of spaced apart wheels. The top is cuboidal and is attachable to the seat in a removable fashion. The top comprises a handle on an upper surface. A rear of the base comprises flanking formations for attachment of elongate members. The rear of the base further comprises a central telescopic handle. In the erected condition, the top is detachable from the base and is displaceable in a clamshell-like fashion to form a desk, wherein the elongate members are attachable as legs to the desk. With the top removed, in the erected condition, the base may be used as a chair.



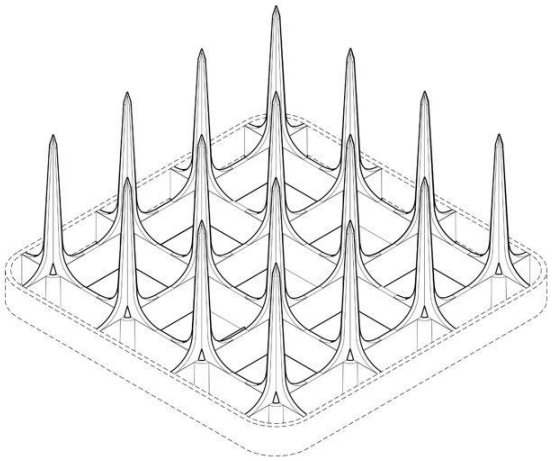
First three-dimensional view

21: A2024/01193 22: 2024-11-22 23:
43: 2024-05-24
52: Class 6 24: Part A
71: MIDESK GLOBAL (PTY) LTD
**54: Sets of furniture**
57: The design is for a set of furniture comprising a desk and chair. The chair comprises a cuboidal body comprising a seat, a backrest transversely extending from the seat, a pair of spaced apart feet, and a pair of spaced apart wheels opposite the feet. The desk is planar and comprises four legs. A rear of the chair comprises flanking attachment formations for attachment of the legs of the desk. The rear of the chair further comprises a centrally provided telescopic handle. In the unerected condition, the legs are removed from the desk and the desk is foldable in a clam-shell fashion to a cuboidal top which is locatable on, and attachable to, the chair, particularly a seat thereof.

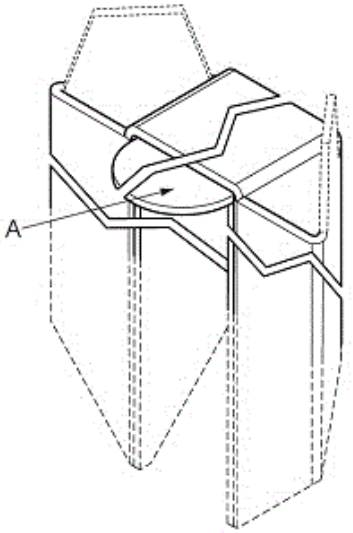


First three-dimensional view

21: A2024/01194 22: 2024-11-25 23:
43: 2025-07-21
52: Class 09 24: Part A
71: LONG RUN CAPITAL (PTY) LTD, HIGRO SYSTEMS (RF) (PTY) LTD
**54: PLANT PROPAGATION APPARATUS**
57: The design is applied to a plant propagation apparatus. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the plant propagation apparatus, substantially as illustrated in the accompanying representation.



21: A2024/01210 22: 2024-11-26 23:
43: 2025-06-11
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.



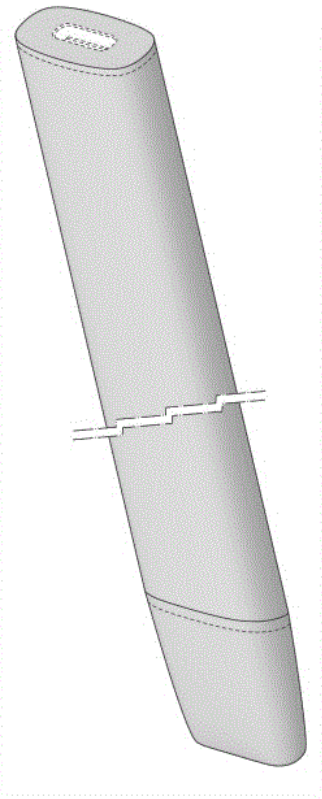

REAR PERSPECTIVE VIEW
FIRST EMBODIMENT

21: A2024/01213 22: 2024-11-27 23:
43: 2024-05-28
52: Class 10 24: Part A
71: LVMH Swiss Manufactures SA
33: HSIRID(CH) 31: DM/238233 32: 2024-05-28
**54: WATCHES**
57: The design is for a watch having a case and an openworked dial through which innards of the watch are visible. The case has four parts: case body, hollowed side, bezel, and case back. The case body features a robust crown at a 3 o'clock position, with buttons above and below. The bezel has numerals. The dial has three sub-dials at 3, 6, and 9 o'clock positions. A periphery of the dial has a track with graduated markings.

Figure 1

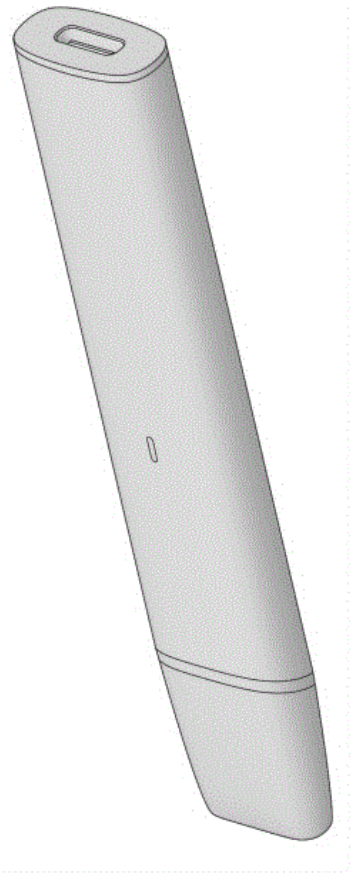
Three-dimensional view

21: A2024/01215 22: 2024-11-27 23:
43: 2025-06-12
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015062600-0011 32: 2024-06-05
**54: ELECTRONIC CIGARETTE**
57: The design is to be applied to an electronic cigarette. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The broken lines are for illustrative purposes only and form no part of the claimed design. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, colouration or surface finish.



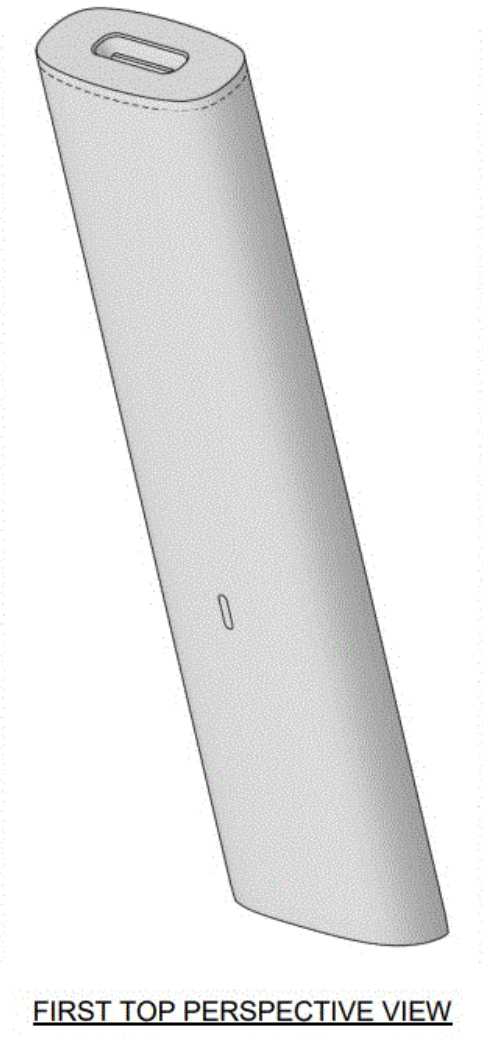
TOP PERSPECTIVE VIEW

21: A2024/01216 22: 2024-11-27 23:
43: 2025-06-12
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015062600-0013 32: 2024-06-05
**54: ELECTRONIC CIGARETTE**
57: The design is to be applied to an electronic cigarette. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, colouration or surface finish.



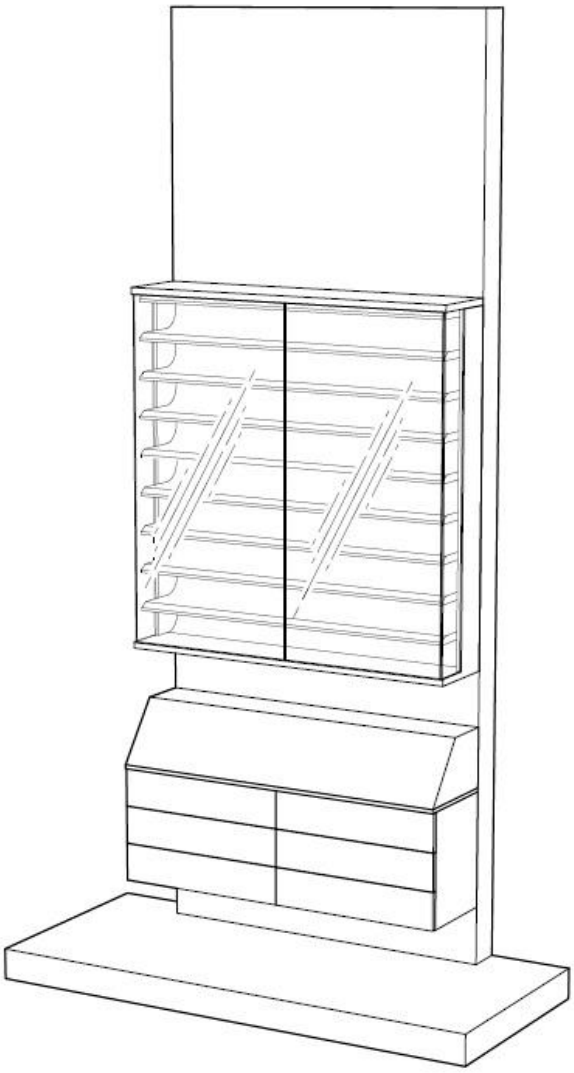
FIRST TOP PERSPECTIVE VIEW

21: A2024/01217 22: 2024-11-27 23:
43: 2025-06-12
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015062600-0015 32: 2024-06-05
**54: ELECTRONIC CIGARETTE**
57: The design is to be applied to an electronic cigarette. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The broken lines are for illustrative purposes only and form no part of the claimed design. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, colouration or surface finish.

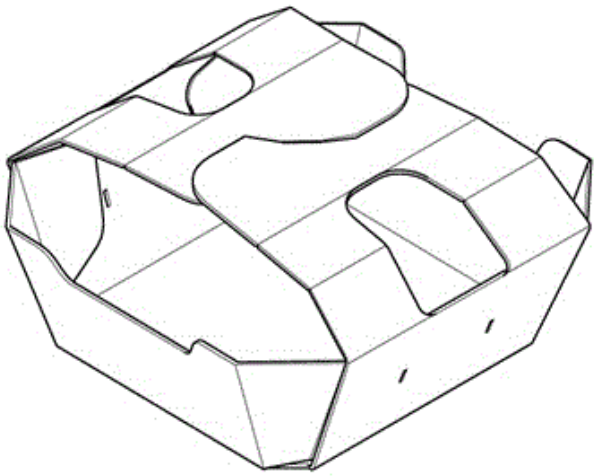


FIRST TOP PERSPECTIVE VIEW

21: A2024/01218 22: 2024-11-27 23:
43: 2025-06-12
52: Class 20 24: Part A
71: NAUDE, Ruahan
**54: DISPLAY UNIT**
57: The design relates to a DISPLAY UNIT. The features of the design for which protection is claimed reside in the pattern and/or shape and/or configuration and/or ornamentation of the DISPLAY UNIT substantially as illustrated in the accompanying representations, irrespective of the number of shelves and drawers or the appearance of the features shown in broken lines.



21: A2024/01226 22: 2024-11-28 23:
43: 2025-06-11
52: Class 9. 24: Part A
71: MPACT LIMITED
**54: Punnet**
57: The design relates to a punnet. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP
PERSPECTIVE VIEW

21: A2024/01229 22: 2024-11-29 23:
43: 2024-09-19
52: Class 10 24: Part A
71: Turlen Holding SA
33: CH 31: 2024-00465 32: 2024-09-19
**54: WATCHES**
57: The design is for a watch. The watch has a case that has a front convex bezel and concave back. A face has parallel top and bottom edges and convex sides. On the front, at corners of the bezel, are four prominent symmetrical screws fixing the bezel, case, and back all together. At the top and bottom, two additional screws allow a strap to be secured to the watch. A large circular crown is fitted at a 3 o'clock position. The transparent bezel reveals the mechanical movement including mechanical parts and an intricate arrangement of gears, bearings, and arms. On top of that, two elongate watch hands, a long hand and a short hand, are mounted in a primary dial, and three sub-dials, respectively at the 3, 6, and 9 o'clock positions are provided. Four push buttons are provided, two on each side, each bottom have a trapezoidal shape.

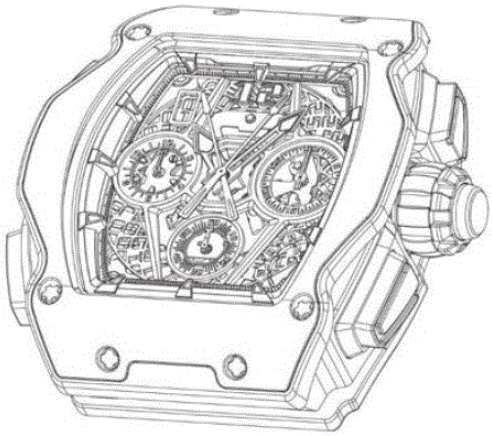


Figure 1

Three-dimensional view

21: A2024/01230 22: 2024-11-29 23:
43: 2024-09-19
52: Class 10 24: Part A
71: Turlen Holding SA
33: CH 31: 2024-00465 32: 2024-09-19
**54: WATCH CASES**
57: The design is for a watch. The watch has a case that has a front convex bezel and concave back. A face has parallel top and bottom edges and convex sides. On the front, at corners of the bezel, are four prominent symmetrical screws fixing the bezel, case, and back all together. At the top and bottom, two additional screws allow a strap to be secured to the watch. A large circular crown is fitted at a 3 o'clock position. Four push buttons are provided, two on each side, each bottom have a trapezoidal shape.

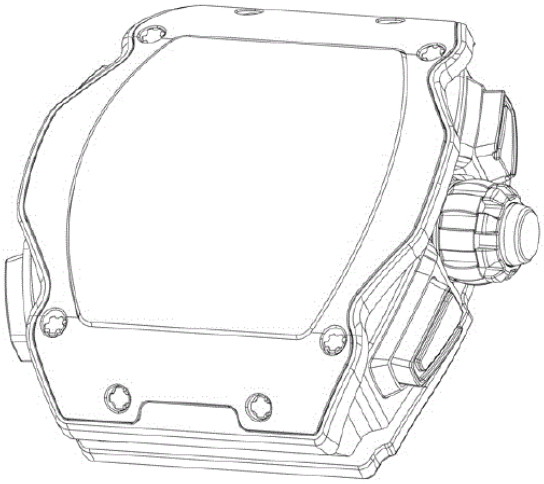
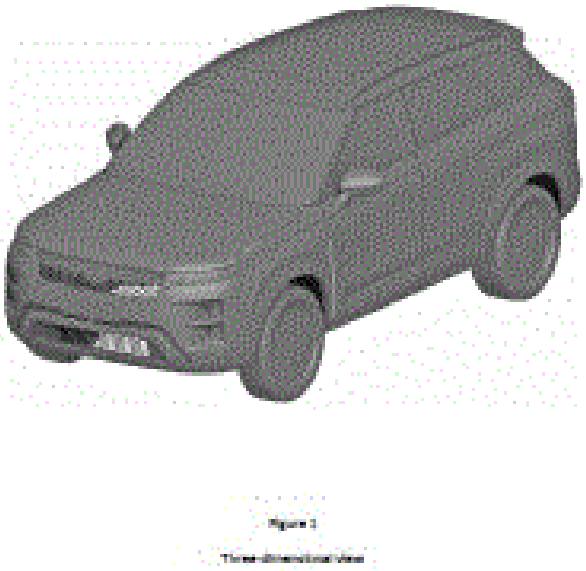


Figure 1

Three-dimensional view

21: A2024/01231 22: 2024-11-29 23:
43: 2024-05-30
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 2024303273931 32: 2024-05-30
**54: AUTOMOBILES**
57: The vehicle design features a pair of slender, elongated headlights at a front, seamlessly integrated with a curved hood. The headlights extend to the inverted trapezium grille, which is adorned with a honeycomb mesh pattern. Below the licence plate mount, a trapezium lower grille echoes the upper grille's shape and also features a honeycomb mesh. A prominent character line runs from the front headlights to rear doors on the vehicle's side profile. The taillights, which mirror the shape of the headlights, extend into the side profile. The rear end is by a continuous taillight design.



21: A2024/01247 22: 2024-12-03 23:
43: 2025-07-09
52: Class 09 24: Part A
71: POLYOAK PACKAGING (PTY) LTD
**54: A BOTTLE**
57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the bottle, substantially as illustrated in the accompanying representation. Colour forms no part of the design and is disclaimed. Surface shading is provided to indicate the surface character but does not form part of the design and is disclaimed.

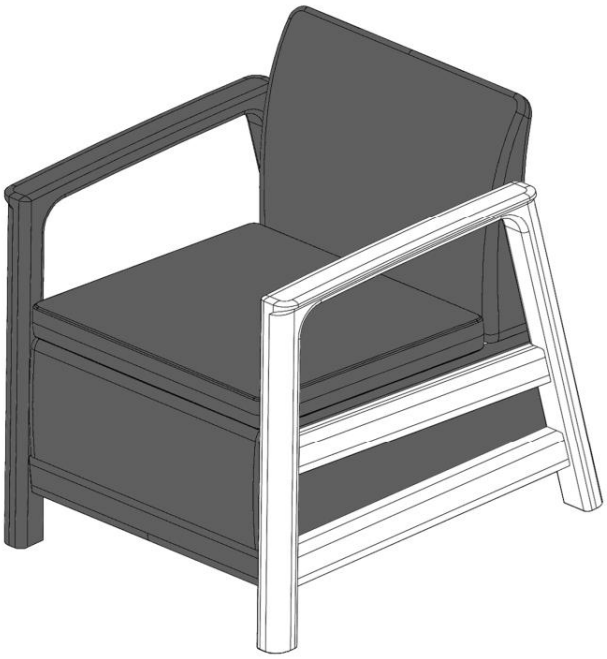
21: A2024/01279 22: 2024-12-10 23:
43: 2025-07-09
52: Class 06 24: Part A
71: KETER HOME AND GARDEN PRODUCTS LTD
33: IL 31: 72667 32: 2024-06-10
**54: GARDEN FURNITURE**
57: The design is applied to garden furniture. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the garden furniture, substantially as illustrated in the accompanying representation.

21: A2024/01280 22: 2024-12-10 23:
43: 2025-07-09
52: Class 06 24: Part A
71: KETER HOME AND GARDEN PRODUCTS LTD
33: IL 31: 72667 32: 2024-06-10
**54: GARDEN FURNITURE**
57: The design is applied to garden furniture. 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 garden furniture, substantially as illustrated in the accompanying representation.

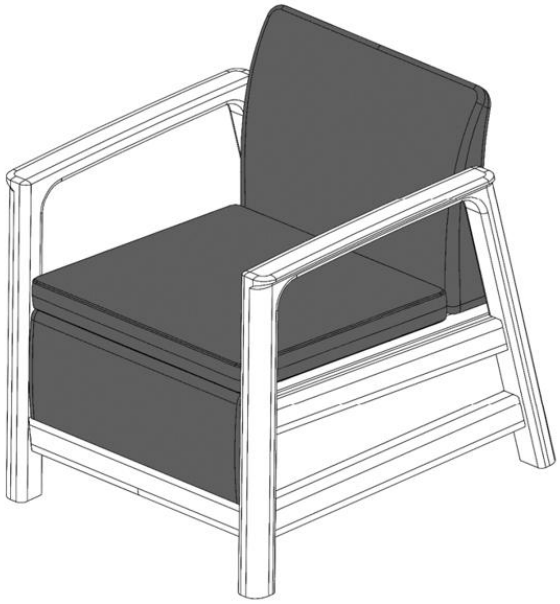
21: A2024/01281 22: 2024-12-10 23:
43: 2025-07-08
52: Class 06 24: Part A
71: KETER HOME AND GARDEN PRODUCTS LTD
33: IL 31: 72667 32: 2024-06-10
**54: GARDEN FURNITURE**

57: The design is applied to garden furniture. The features of the design for which protection is claimed are those of the shape and/or configuration of the garden furniture, substantially as illustrated in the accompanying representation.

21: A2024/01282 22: 2024-12-10 23:
43: 2025-07-08
52: Class 06 24: Part A
71: KETER HOME AND GARDEN PRODUCTS LTD
33: IL 31: 72667 32: 2024-06-10
**54: GARDEN FURNITURE**
57: The design is applied to garden furniture. The features of the design for which protection is claimed are those of the shape and/or configuration of the garden furniture, substantially as illustrated in the accompanying representation. Parts provided with grey shading do not form part of the design and are disclaimed.

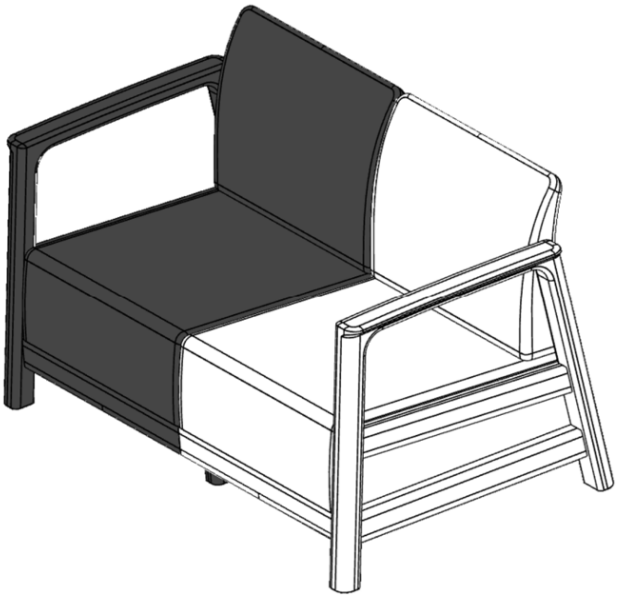


21: A2024/01288 22: 2024-12-10 23:
43: 2025-07-09
52: Class 06 24: Part A
71: KETER HOME AND GARDEN PRODUCTS LTD
33: IL 31: 72667 32: 2024-06-10
**54: GARDEN FURNITURE**
57: The design is applied to garden furniture. The features of the design for which protection is claimed are those of the shape and/or configuration of the garden furniture, substantially as illustrated in the accompanying representation. Parts provided with grey shading do not form part of the design and are disclaimed.

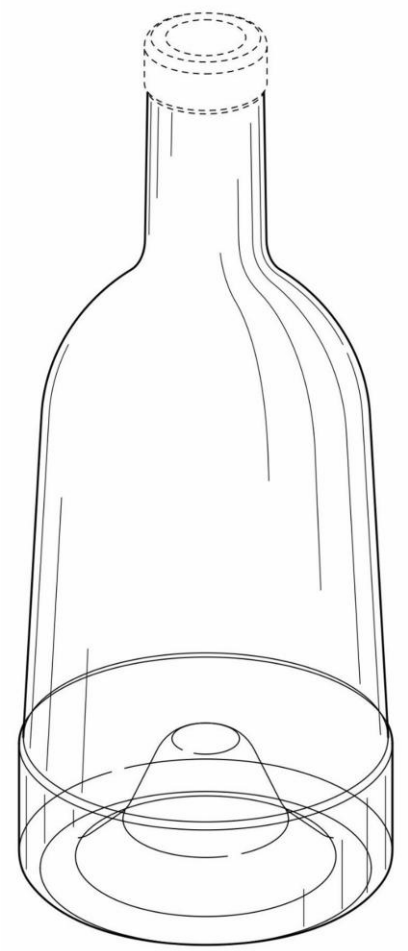


21: A2024/01289 22: 2024-12-10 23:
43: 2025-07-08
52: Class 07 24: Part A
71: CONTRACT CATERING HOLDINGS SA (PTY) LTD
**54: A TRAY**
57: The design is applied to a tray. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the tray, substantially as illustrated in the accompanying representation. Colour forms no part of the design and is disclaimed. The table and objects in the background do not form part of the design and are disclaimed. Other articles are provided in Figures 7 and 8 to indicate the tray in use but does not form part of the design and is disclaimed.

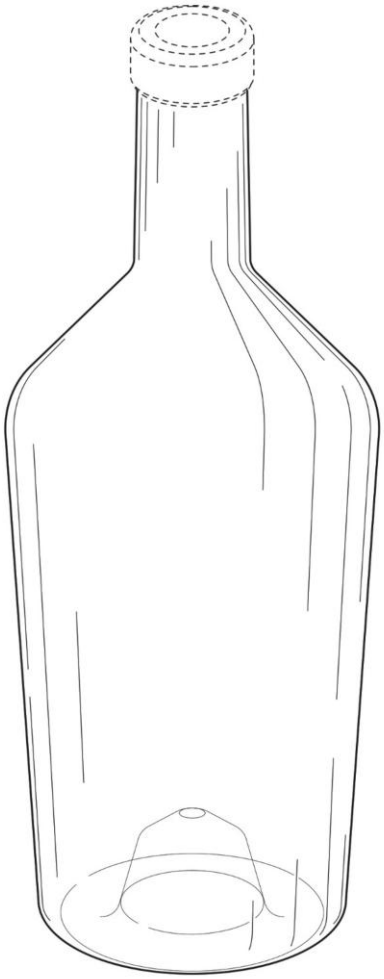
21: A2024/01290 22: 2024-12-10 23:
43: 2025-07-08
52: Class 06 24: Part A
71: KETER HOME AND GARDEN PRODUCTS LTD
33: IL 31: 72667 32: 2024-06-10
**54: GARDEN FURNITURE**
57: The design is applied to garden furniture. The features of the design for which protection is claimed are those of the shape and/or configuration of the garden furniture, substantially as illustrated in the accompanying representation. Parts provided with grey shading do not form part of the design and are disclaimed.



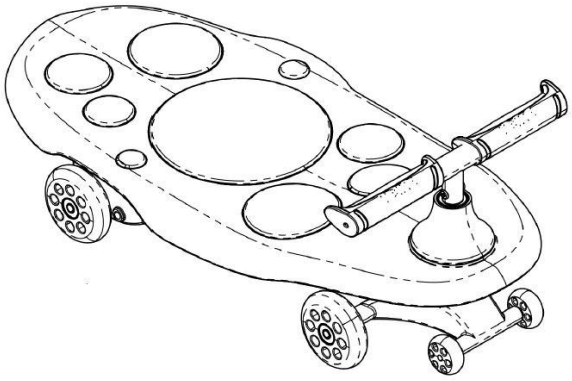
21: A2024/01294 22: 2024-12-11 23:
43: 2025-07-09
52: Class 09 24: Part A
71: SAVERGLASS
33: EU 31: 015066563-0001 32: 2024-07-16
**54: BOTTLE**
57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration of the bottle, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Surface lines are included to indicate the surface character and contours of the bottle and such lines do not constitute a surface pattern or ornamentation.



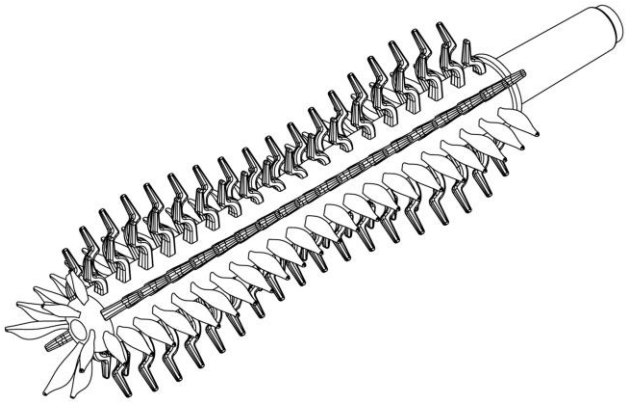
21: A2024/01295 22: 2024-12-11 23:
43: 2025-07-08
52: Class 09 24: Part A
71: SAVERGLASS
33: EU 31: 015066576-0001 32: 2024-07-16
**54: BOTTLE**
57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration of the bottle, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Surface lines are included to indicate the surface character and contours of the bottle and such lines do not constitute a surface pattern or ornamentation.



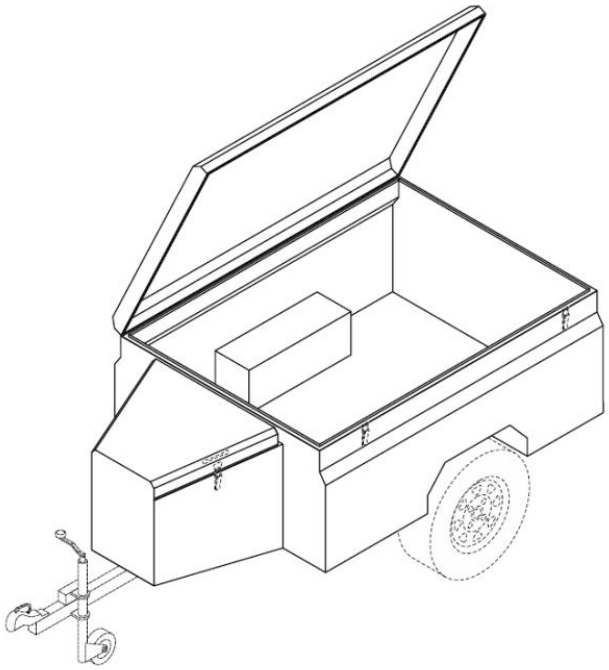
21: A2024/01298 22: 2024-12-11 23:
43: 2025-07-08
52: Class 21 24: Part A
71: KRUGER, Jaco
**54: RIDE-ON VEHICLE**
57: The design is applied to a ride-on vehicle. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the ride-on vehicle, substantially as illustrated in the accompanying representations.



21: A2024/01357 22: 2024-12-18 23:
43: 2025-07-09
52: Class 04 24: Part A
71: PARFUMS CHRISTIAN DIOR
33: EU 31: 015064373-0001 32: 2024-06-21
**54: MASCARA BRUSHES**
57: The design is applied to a mascara brush. 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 mascara brush, substantially as illustrated in the accompanying representation.



21: A2024/01378 22: 2024-12-20 23:
43: 2025-07-08
52: Class 12 24: Part A
71: PRIOR FAMILY TRUST (IT000007/2021 (M))
**54: TRAILER**
57: The features of this design for which protection are claimed include the shape and/or configuration of a trailer substantially as illustrated in the accompanying representations.



21: F2020/00265 22: 2020-02-27 23:
43: 1900-01-01
52: Class 9 24: Part F
71: E6PR S.A.P.I. DE C.V.
33: MX 31: MX/f/2019/002336 32: 2019-08-27
**54: SLEEK CAN HOLDERS**
57: The design is for sleek can holders and comprises a rectangular tray having outwardly protruding rounded corners and a raised side wall with curved edges. The tray includes six inter-connecting circular raised members, arranged in three rows of two. Each member defines a round recess. A side of each member includes a concavely curved forwardly projecting lip. Two smaller circular raised members are each positioned in between and inter-connecting with two rows. The circular members protrude downwardly at a rear surface of the tray.

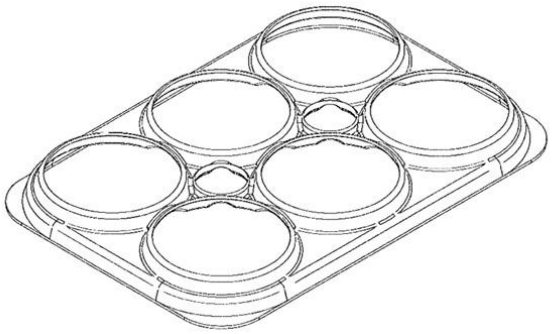


Figure 1

Three-dimensional view

21: F2022/01698 22: 2022-12-22 23:
43: 2022-06-29
52: Class 10 24: Part F
71: Turlen Holding SA
33: HSIRID(CH) 31: DM/223844 32: 2022-06-29
**54: WATCH MECHANISMS**
57: The design is for a watch mechanism. The watch mechanism includes a planar housing which has an irregular outline in plan. Multiple watch mechanism components, including gears, are housed within the housing. Some of the gears protrude beyond the outline of the housing. A rear base of the housing has apertures rendering some of the watch mechanism components visible through the rear base, whereas a front of the housing has several covers that allow even more of the watch mechanism components to be visible.

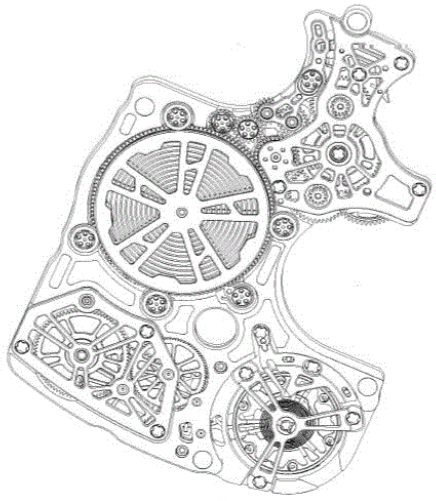
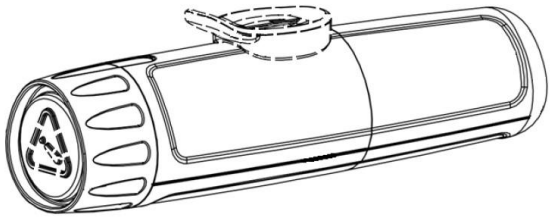


Figure 1

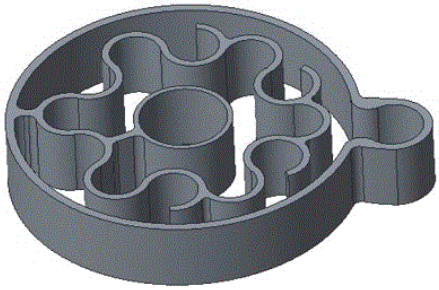
Three-dimensional view

21: F2023/01406 22: 2023-12-13 23:
43: 2025-06-18
52: Class 24 24: Part F
71: IMPULSE BIOMEDICAL (PTY) LTD
**54: AN AUTOINJECTOR**
57: The design is applied to an autoinjector. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the autoinjector, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed.



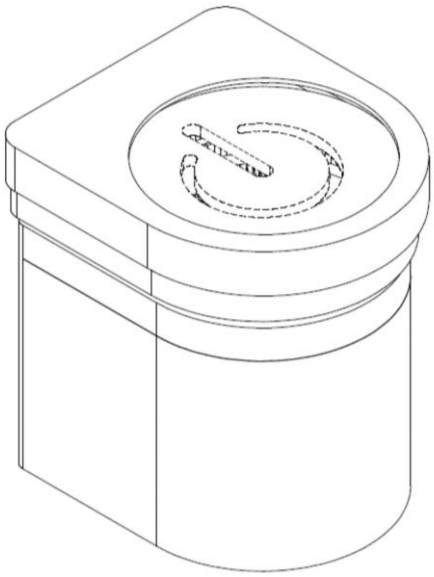
21: F2024/00328 22: 2024-04-04 23:
43: 2025-06-09
52: Class 23 24: Part F
71: HYDROGEN ENERGY APPLICATIONS (PTY) LTD
**54: GAS DISTRIBUTOR**
57: The functional design relates to gas distributor for evenly distributing and directing gas feed into tubes and allowing for a centrally received burner. The features of the design are those of shape and/or configuration as shown and described.

*Perspective view*

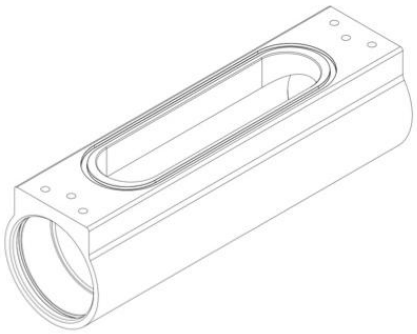


21: F2024/00919 22: 2024-09-17 23:
43: 2025-05-13
52: Class 10 24: Part F
71: Joshua Muthusamy
33: ZA 31: 1 32: 2024-09-16
**54: STOCK COUNT INNOVATION**
57: Custom scale LCD Screen

21: F2024/01019 22: 2024-10-08 23:
43: 2024-06-23
52: Class 24 24: Part F
71: RHODES UNIVERSITY
**54: LABORATORY TOOLS**
57: The design is for a laboratory tool. The features of the design are illustrated in the overall appearance of the laboratory tool. It is the overall design of the laboratory tool that is claimed.



21: F2024/01141 22: 2024-11-07 23:
43: 2025-06-12
52: Class 13 24: Part F
71: DALE HOLDINGS (PTY) LTD
**54: JUNCTION BOXES**
57: The design is for a junction box, the features of the design for which protection is claimed include the shape and/or configuration of a junction box, substantially as shown in the representations, features included in broken line are for illustrative purposes only and are disclaimed.



Three-dimensional view of a junction box

21: F2024/01155 22: 2024-11-14 23:
43: 2025-06-12
52: Class 09 24: Part F
71: TEQAL (PTY) LTD
**54: ROLL-ON CONTAINER**
57: The features of the design for which protection is claimed reside in the shape and/or configuration of a roll-on container as shown in the accompanying

representations, irrespective of the features shown in broken lines and irrespective of any colour, images or text applied to the roll-on container.

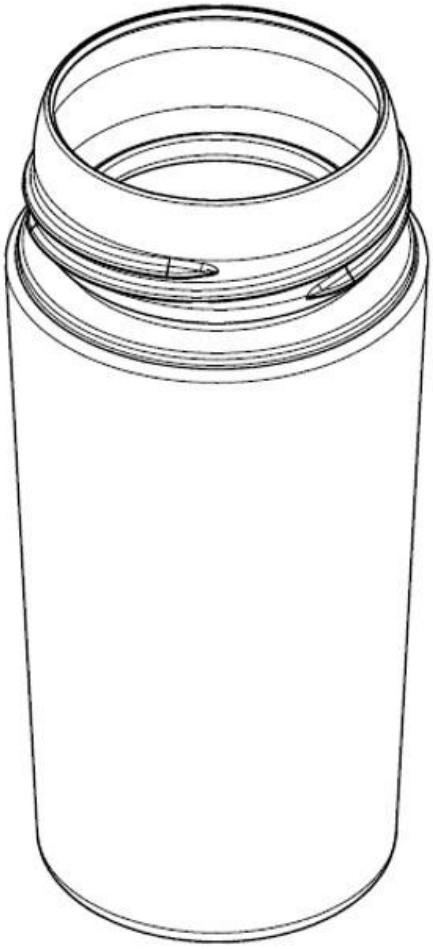
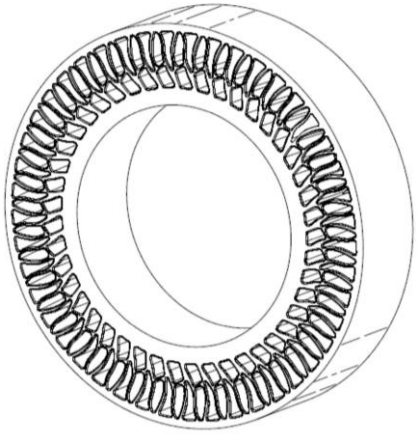


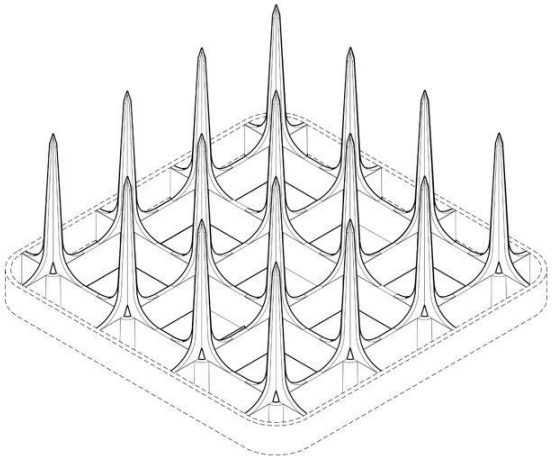
Figure 1

Perspective view of a roll-on container

21: F2024/01171 22: 2024-11-19 23:
43: 2024-11-19
52: Class 12 24: Part F
71: Terra Trak Technologies International (Proprietary) Limited
**54: An Insert for a Run Flat Tyre**
57: The design is for an insert for a run flat tyre. The insert has an annular body with two rows of circumferentially spaced apertures extending axially through the body. An inner row comprises a series of roughly quadrangular apertures. An outer row comprises two types of apertures which alternate. A first type of aperture is roughly teardrop shaped, and these apertures are radially aligned with the quadrangular apertures of the inner row. A second type of aperture is roughly canine shaped, and these apertures are circumferentially offset from the quadrangular apertures.

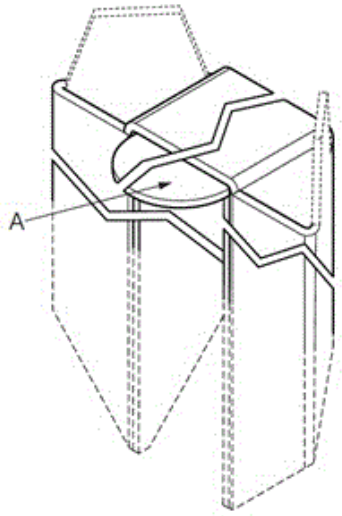


21: F2024/01195 22: 2024-11-25 23:
43: 2025-07-21
52: Class 09 24: Part F
71: LONG RUN CAPITAL (PTY) LTD, HIGRO SYSTEMS (RF) (PTY) LTD
**54: PLANT PROPAGATION APPARATUS**
57: The design is applied to a plant propagation apparatus. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the plant propagation apparatus, substantially as illustrated in the accompanying representation.



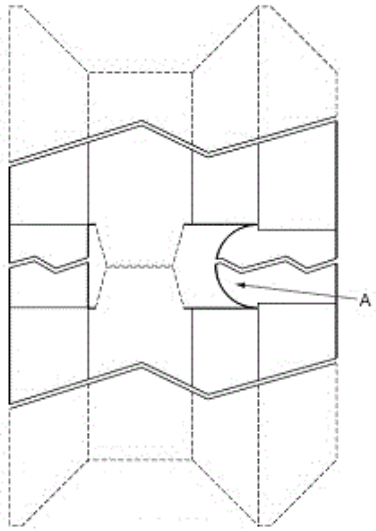
21: F2024/01209 22: 2024-11-26 23:
43: 2025-06-11
52: Class 9. 24: Part F
71: MPACT LIMITED
**54: Box Connector**

57: The design relates to a box connector. The features of the design are those of shape and/or configuration and/or pattern.



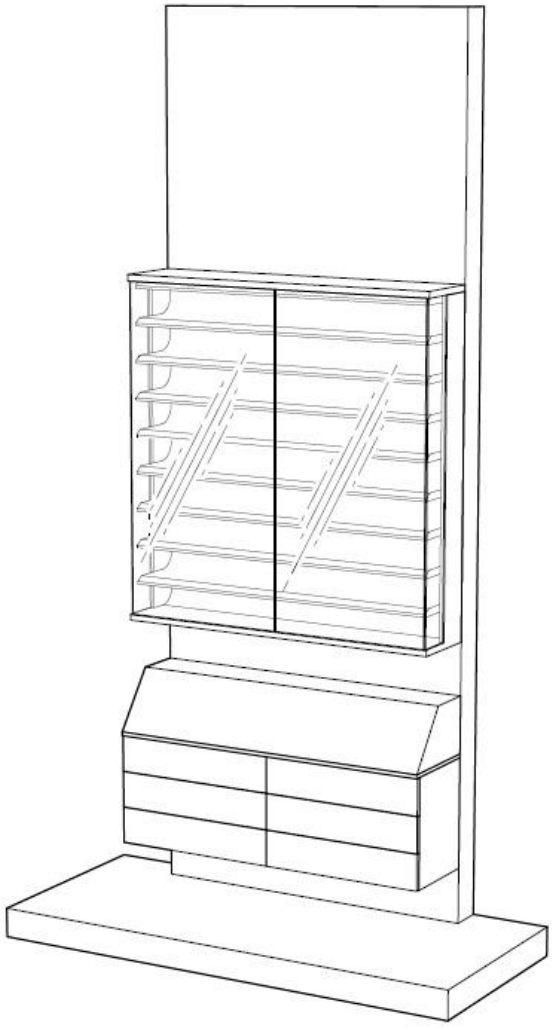

REAR PERSPECTIVE VIEW
FIRST EMBODIMENT

21: F2024/01211 22: 2024-11-26 23:
43: 2025-06-12
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.



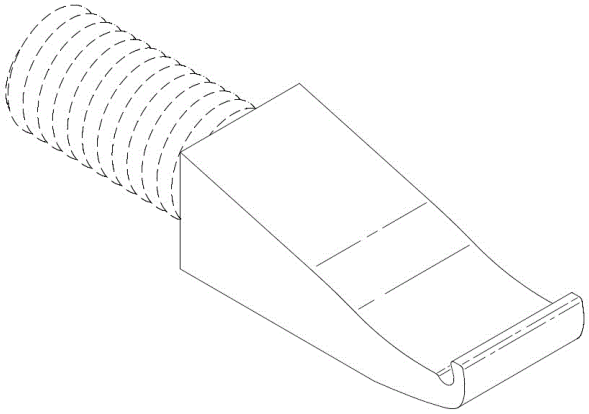

TOP VIEW
FIRST EMBODIMENT

21: F2024/01219 22: 2024-11-27 23:
43: 2025-06-12
52: Class 20 24: Part F
71: NAUDE, Ruahan
**54: DISPLAY UNIT**
57: The design relates to a DISPLAY UNIT. The features of the design for which protection is claimed reside in the pattern and/or shape and/or configuration of the DISPLAY UNIT substantially as illustrated in the accompanying representations, irrespective of the number of shelves and drawers or the appearance of the features shown in broken lines.



21: F2024/01222 22: 2024-11-28 23:
43: 2024-11-28
52: Class 8 24: Part F
71: NIMB, George Frederick
**54: A Tool for Assembling an Article of Packaging**
57: The design is for a tool for assembling an article of packaging. The tool has a body which has a constant width but tapers in height towards a curved lip at a free end. A shallow groove with a semi-

circular profile is defined inwardly of the lip, the lip therefore functioning as a wide hook.



Three-dimensional view from one side

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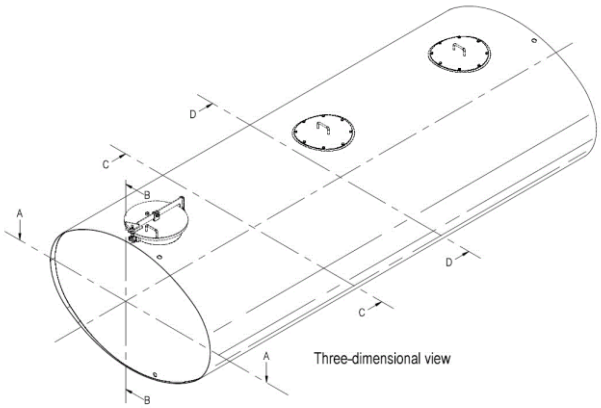
21: F2024/01225 22: 2024-11-28 23:
43: 2024-11-28
52: Class 12 24: Part F
71: WELFIT ODDY (PROPRIETARY) LIMITED
**54: A Tank for a Road Truck**
57: The design is for a tank for a road truck, e.g., for transporting liquid products. The tank is elongate and has an oval cross-sectional profile. The tank includes a plurality of baffles provided therein. The baffles are arranged in pairs, with a pair of baffles being arranged side-by-side and defining a V-shaped space therebetween. The baffles have a wing- or aerofoil-like profile. The pairs of baffles are longitudinally spaced along the length of the tank. The tank is to be mounted to a vehicle trailer, e.g., a liquid tanker, for the transport of liquid products in the tank. The baffles enhance functionality and safety by limiting “sloshing” of liquid contained in the tank while driving. The baffles also provide benefits for ease of personnel movement inside the tank, e.g., to permit cleaning thereof.

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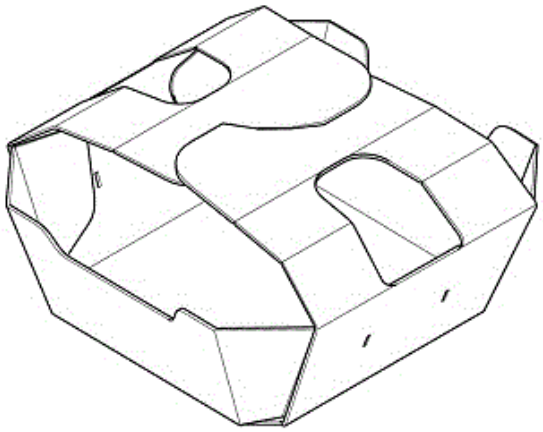
21: F2024/01227 22: 2024-11-28 23:
43: 2025-06-11
52: Class 9. 24: Part F
71: MPACT LIMITED
**54: Punnet**
57: The design relates to a punnet. The features of the design are those of shape and/or configuration and/or pattern.



TOP
PERSPECTIVE VIEW

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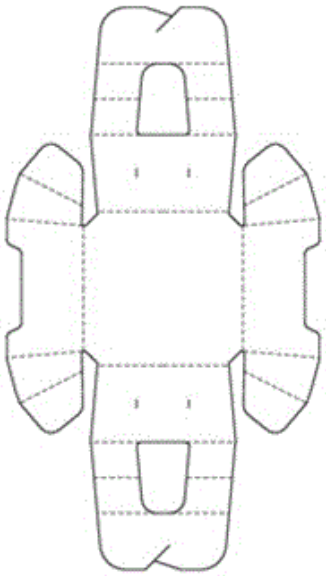
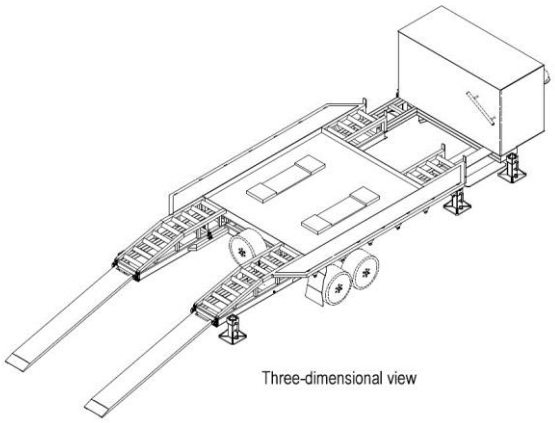
21: F2024/01228 22: 2024-11-28 23:
43: 2025-06-11
52: Class 9. 24: Part F
71: MPACT LIMITED
**54: Punnet Blank**
57: The design relates to a punnet blank. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



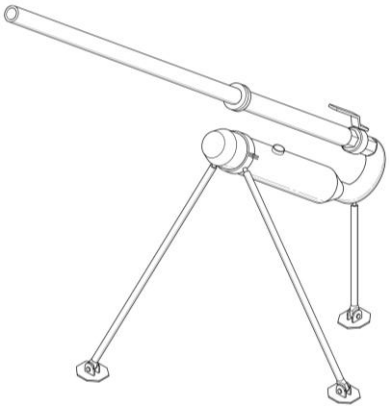

21: F2024/01237 22: 2024-11-29 23:
43: 2024-11-29
52: Class 12 24: Part F
71: VERMAAK, Tommy Gerhardus
**54: A Trailer for a Road Vehicle**
57: The design is for a trailer for a road vehicle. The trailer includes a ramp and a vehicle support zone forwardly of the ramp. A vehicle may be driven up the ramp and parked in the vehicle support zone. The trailer includes several support feet for stability. The trailer includes a utility box, which may contain hydraulic equipment and/or tools. The trailer is intended to be a mobile vehicle service unit, so that a vehicle can be driven up the ramp and parked, and then accessed for various service tasks.




21: F2024/01248 22: 2024-12-03 23:
43: 2025-07-09
52: Class 09 24: Part F
71: POLYOAK PACKAGING (PTY) LTD
**54: A BOTTLE**
57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the bottle, substantially as illustrated in the accompanying representation. Surface shading is provided to indicate the surface character but does not form part of the design and is disclaimed.

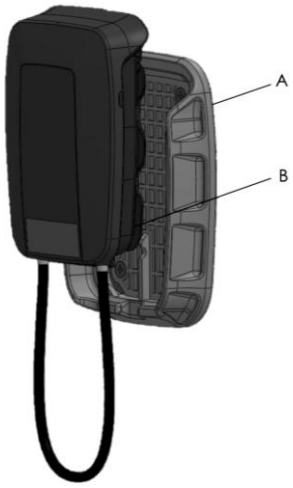
21: F2024/01291 22: 2024-12-10 23:
43: 2025-07-08
52: Class 07 24: Part F
71: CONTRACT CATERING HOLDINGS SA (PTY) LTD
**54: A TRAY**
57: The design is applied to a tray. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the tray, substantially as illustrated in the accompanying representation. Colour forms no part of the design and is disclaimed. The table and objects in the background do not form part of the design and are disclaimed. Other articles are provided in Figures 7 and 8 to indicate the tray in use but does not form part of the design and is disclaimed.

21: F2024/01359 22: 2024-12-18 23:
43: 2025-07-08
52: Class 22 24: Part F
71: FISH, Christopher
**54: BAIT LAUNCHERS**
57: The features of the design for which protection is claimed include the pattern and/or shape and/or configuration of a bait launcher, substantially as shown in the representations.



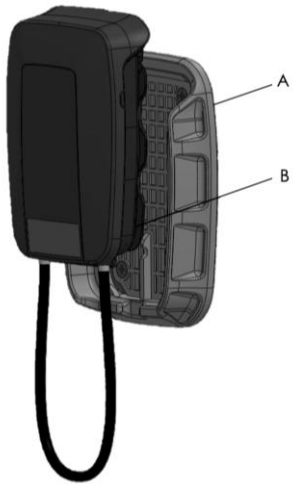
Three-dimensional view of the bait launchers.

21: F2024/01365 22: 2024-12-18 23:
43: 2025-07-08
52: Class 08 24: Part F
71: BRASIL FRANK AND ASSOCIATES (PTY) LTD
**54: LOCK MOUNTS**
57: The design is for a lock mount, the features of the design for which protection is claimed include the pattern and/or shape and/or configuration of a lock mount, substantially as shown in the representations. The lock labelled as B is for illustrative purposes and is disclaimed.




Three-dimensional view of a lock mount in use

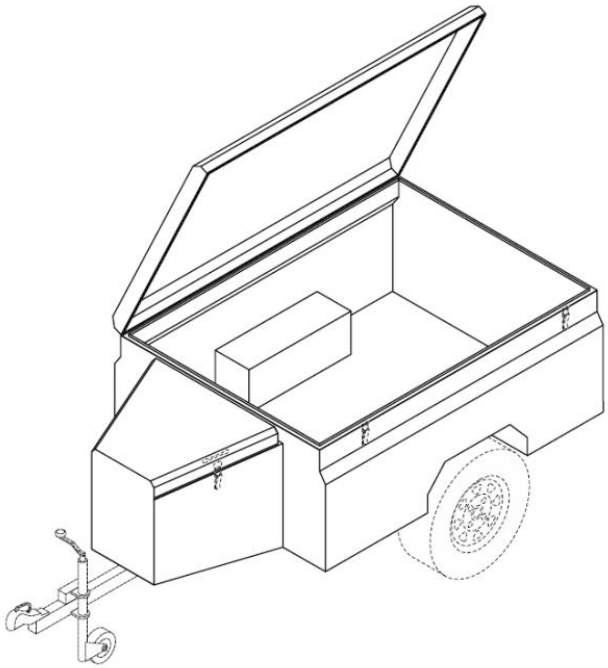
21: F2024/01366 22: 2024-12-18 23:
43: 2025-07-08
52: Class 08 24: Part F
71: BRASIL FRANK AND ASSOCIATES (PTY) LTD
**54: LOCKS**
57: The design is for a lock, the features of the design for which protection is claimed include the pattern and/or shape and/or configuration of a lock, substantially as shown in the representations. The lock mount labelled as A is for illustrative purposes only and is disclaimed.



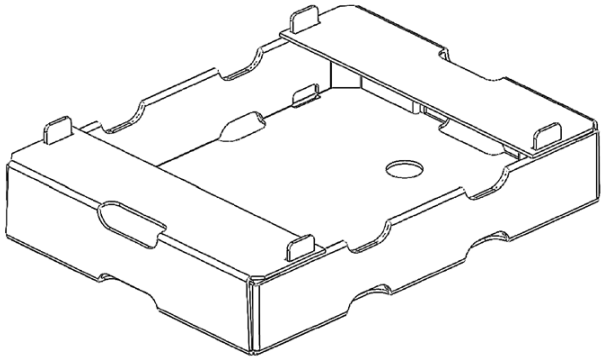

Three-dimensional view of a lock in use

21: F2024/01377 22: 2024-12-20 23:
43: 2025-07-08
52: Class 12 24: Part F
71: PRIOR FAMILY TRUST (IT000007/2021 (M))
**54: TRAILER**
57: The features of this design for which protection are claimed include the shape and/or configuration

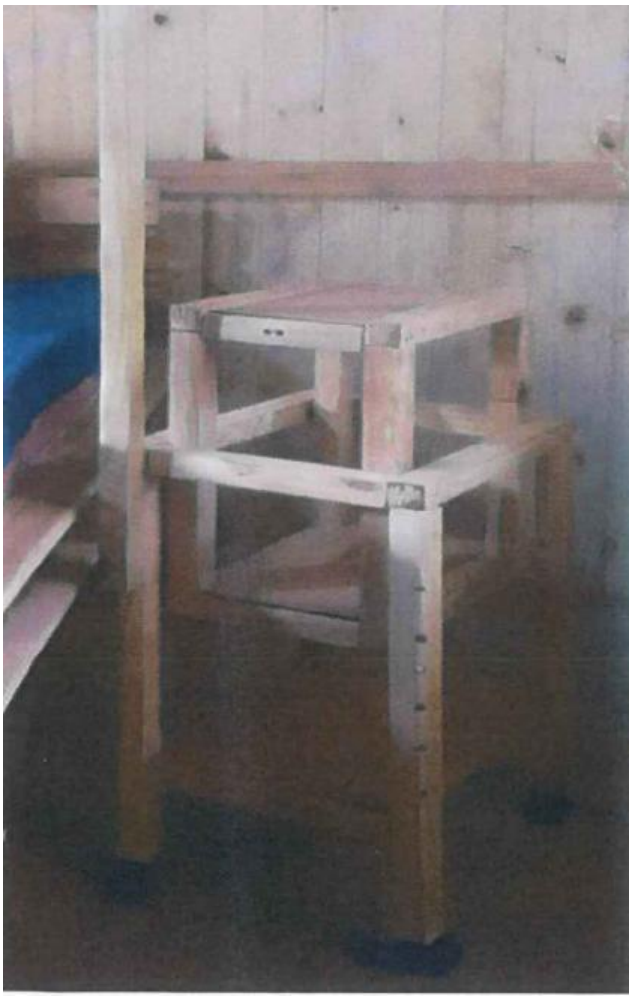
of a trailer substantially as illustrated in the accompanying representations.



21: F2025/00092 22: 2025-01-22 23:
43: 2025-08-13
52: Class 09 24: Part F
71: APL Cartons (Pty) Ltd
**54: CONTAINER**
57: The design is for a rectangular, stackable container with double-folded flaps inside its end walls.



21: F2025/00167 22: 2025-02-13 23:
43: 2025-07-17
52: Class 06 24: Part F
71: Adrian de Villiers
**54: LAPTOP ADJUSTABLE BEDSIDE TABLE**
57: Laptop sits diagonally across the table counter, so the table top fits all sizes of laptops. Inside table moves to desired height with placement scews through the outer table. Inside table can be taken out and used along side low lying beds. Detachable webcamera arm fitted to the outer table for sitting or standing heights for attaching a webcam or medical drip for when sitting or standing next to and working with the table.



## HYPOTHECATIONS

No records available

## JUDGMENTS

No records available

## OFFICE PRACTISE NOTICES

No records available

# 4. COPYRIGHT

# COPYRIGHT IN CINEMATOGRAPH FILMS

## NOTICES OF ACCEPTANCE

**(Applications filed in terms of Act No. 62 of 1977)**

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

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 amendment no: **2021/00587** was advertised in the March 2025 journal and it was errooneously advertised again in the July 2025 journal therefore the valid publication date will remain **26/03/2025.**

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The patent amendment no: **2021/10259** was advertised in the May 2025 journal and it was errooneously advertised again in the July 2025 journal therefore the valid publication date will remain **28/05/2025.**

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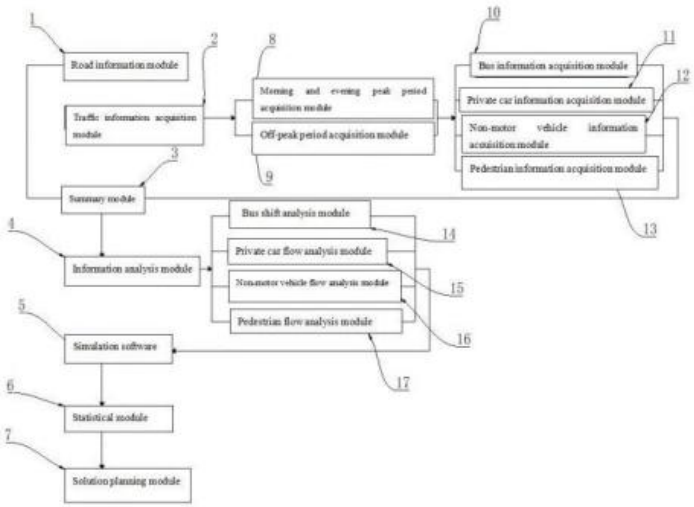
The patent amendment no: **2024/09764** was advertised in the July 2025 journal with incorrect order of inventors and this application should have appeared as the one below but the publication date will remain **30/07/2025.**

21: **2024/09764**. 22: 2024/12/18. 43: 2025/06/26
51: G06Q
71: East China Jiaotong University
72: Feng Daoming, Liu Kai, Jia Chongqiang
54: **SMART CITY TRAFFIC PLANNING SYSTEM BASED ON SIMULATION DYNAMIC SIMULATION TECHNOLOGY**
00: - The present invention provides a smart city traffic planning system based on simulation dynamic simulation technology, which falls with the technical field of traffic planning. The system includes a road information module configured to collect road distribution information and road intersection information; a traffic information acquisition module configured to acquire information of pedestrians, vehicles and the like on the road; a summary module configured to summarize information of the road information module and the traffic information acquisition module; an information analysis module configured to analyze summarized information in the summary module; a simulation software configured to simulate and demonstrate data analyzed in the information analysis module for many times; and a statistical module configured to make statistics on delays, congestion, accidents and other situations in a plurality of simulation processes of the simulation software. There are many information conditions combined a whole traffic solution planning, which makes a planned traffic solution more in line with the actual situation and can plan regional road traffic, being more conducive to practical use and reduce actual management costs.



## DESIGNS CORRECTION NOTICES

The design application no: **F2025/00167** was advertised in the June & July 2025 journals with some errors which happended during the amendment process therefore it is now advertised again in the August 2025 journal and its valid publication date is the **27/08/2025**.

## COPYRIGHT CORRECTION NOTICES

No records available

## PATENTS

### Advertisement List for August 2025

**Number of Advertised Patents: 678**

| Application Number | Patent Title | Filing Date |
|---|---|---|
| 2014/02526 | SEED TREATMENT METHODS AND COMPOSITIONS | 2014/04/07 |
| 2014/07293 | SERPINC1 IRNA COMPOSITIONS AND METHODS OF USE THEREOF | 2014/10/08 |
| 2015/08961 | DELIVERY, USE AND THERAPEUTIC APPLICATIONS OF THE CRISPR-CAS SYSTEMS AND COMPOSITIONS FOR TARGETING DISORDERS AND DISEASES USING VIRAL COMPONENTS | 2015/12/08 |
| 2016/03789 | METHOD FOR MANAGING USE OF A PARKING AREA | 2016/06/03 |
| 2016/05017 | IMEPITOIN FOR USE IN TREATING EPILEPTIC DISORDERS IN A FELINE | 2016/07/19 |
| 2017/01126 | COMBINATION THERAPIES WITH ANTI CD40 ANTIBODIES | 2017/02/15 |
| 2017/02877 | A WEARABLE IMPACT SENSOR | 2017/04/25 |
| 2017/06683 | FLUIDIC BRIDGE DEVICE AND SAMPLE PROCESSING METHODS | 2017/10/04 |
| 2017/08300 | A COMPOSITE NET | 2017/12/07 |
| 2018/00022 | SUBSTITUTED HETEROCYCLYL DERIVATIVES AS CDK INHIBITORS | 2018/01/03 |
| 2018/00787 | INHIBITORS OF TRYPTOPHAN DIOXYGENASES (IDO1 AND TDO) AND THEIR USE IN THERAPY | 2018/02/06 |
| 2018/03396 | ANTI-N3pGlu AMYLOID BETA PEPTIDE ANTIBODIES AND USES THEREOF | 2018/05/22 |
| 2018/03476 | ANTI-CD22 ANTIBODY-MAYTANSINE CONJUGATES AND METHODS OF USE THEREOF | 2018/05/25 |
| 2018/07206 | METHOD AND APPARATUS FOR PRODUCING FOOD PRODUCT | 2018/10/29 |
| 2019/00936 | FLOTATION LINE AND A METHOD | 2019/02/13 |
| 2019/07919 | OYSTER FARMING APPARATUS, METHODS AND SYSTEMS | 2019/11/28 |
| 2020/02019 | SERPINC1 IRNA COMPOSITIONS AND METHODS OF USE THEREOF | 2020/05/04 |
| 2020/02140 | PROCESS FOR ACIDIC LEACHING OF PRECIOUS AND CHALCOPHILE METALS | 2020/05/04 |
| 2020/02491 | COMPOSITIONS AND METHODS FOR TREATING LIBERIBACTER DISEASES AND OTHER BACTERIAL | 2020/05/06 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | DISEASES | |
| 2020/02729 | POCKET COIL SPRING ASSEMBLY INCLUDING FLEXIBLE FOAM | 2020/05/13 |
| 2020/02748 | METHOD OF MANAGING INSURANCE RISK | 2020/05/12 |
| 2020/04136 | USE OF CHLOROQUINE AND CLEMIZOLE COMPOUNDS FOR TREATMENT OF INFLAMMATORY AND CANCEROUS CONDITIONS | 2020/06/29 |
| 2020/04775 | MAINTENANCE LATCH FOR SWITCHGEAR SHUTTER | 2020/07/31 |
| 2020/05189 | ANTI-NGF ANTIBODIES AND METHODS THEREOF | 2020/08/20 |
| 2020/05282 | USE OF PCSK9 INHIBITOR FOR REDUCING CARDIOVASCULAR RISK | 2020/08/25 |
| 2020/05479 | FLOTATION MACHINE APPARATUS AND METHOD OF USING THE SAME | 2020/09/02 |
| 2020/05778 | A ROCK DRILL INSERT | 2020/09/17 |
| 2020/06187 | GRINDING ROLLER AND ROLLER PRESS | 2020/10/06 |
| 2020/06188 | SUN SAFETY DEVICE | 2020/10/06 |
| 2020/06287 | SYSTEMS AND METHODS FOR REDUCING FORMATION OF SCALE IN PHOSPHORIC ACID PRODUCTION | 2020/10/09 |
| 2020/06747 | DRIFT REDUCTION ADJUVANTS AND METHODS OF USING THE SAME | 2020/10/29 |
| 2020/06943 | CHIMERIC RECEPTORS TO DLL3 AND METHODS OF USE THEREOF | 2020/11/06 |
| 2020/07416 | MONITORING UNIT FOR MONITORING A LINEAR ASSET AND METHOD FOR MONITORING A LINEAR ASSET | 2020/11/27 |
| 2021/00467 | COMBINATION THERAPY | 2021/01/22 |
| 2021/01055 | COMBINATION THERAPY USING C-C CHEMOKINE RECEPTOR 4 (CCR4) ANTAGONISTS AND ONE OR MORE IMMUNE CHECKPOINT INHIBITORS | 2021/02/16 |
| 2021/01210 | INVERTED ANNULAR SIDE GAP ARRANGEMENT FOR A CENTRIFUGAL PUMP | 2021/02/23 |
| 2021/02118 | BARCODING OF NUCLEIC ACIDS | 2021/03/29 |
| 2021/02438 | MELFLUFEN DOSAGE REGIMENS FOR CANCER | 2021/04/14 |
| 2021/02464 | SYSTEM, DEVICE AND METHODS OF SAMPLE PROCESSING USING SEMICONDUCTOR DETECTION CHIPS | 2021/04/14 |
| 2021/02616 | PROCESS OF TREATING | 2021/04/20 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | CARBONACEOUS MATERIAL AND APPARATUS THEREFOR | |
| 2021/02671 | ALUMINOSILICATE ZEOLITE INTERGROWTHS | 2021/04/21 |
| 2021/02693 | DEEP REINFORCEMENT LEARNING FOR PRODUCTION SCHEDULING | 2021/04/22 |
| 2021/02772 | HYBRID MACHINE LEARNING MODEL FOR CODE CLASSIFICATION | 2021/04/26 |
| 2021/03228 | CRYSTAL FORMS OF AN ALK2 INHIBITOR | 2021/05/12 |
| 2021/03229 | CATIONIC LIPIDS CONTAINING SILICON | 2021/05/12 |
| 2021/03233 | LIPID NANOPARTICLE FORMULATIONS | 2021/05/12 |
| 2021/03285 | INHIBITORS OF ALPHA-AMINO-BETA-CARBOXYMUCONIC ACID SEMIALDEHYDE DECARBOXYLASE | 2021/05/14 |
| 2021/03999 | ANTAGONISTS | 2021/06/10 |
| 2021/04667 | HYBRID HYDROGEN POWER MODULE | 2021/07/05 |
| 2021/05218 | RESIN-GROUTED ROCK BOLT ASSEMBLY WITH AN ADAPTED SEALING BUSH | 2021/07/23 |
| 2021/06890 | ROCK BOLT HAVING SENSOR FOR MEASURING MECHANICAL TENSION | 2021/09/17 |
| 2021/10497 | VIDEO CODING LAYER UP-SWITCHING INDICATION | 2021/12/15 |
| 2021/10555 | IMPROVED PROCESS FOR PREPARING IMETELSTAT | 2021/12/17 |
| 2022/00667 | HEARING ENHANCEMENT AND PROTECTION DEVICE | 2022/01/13 |
| 2022/00775 | COMPOSITIONS FOR THE TREATMENT OF HAIR LOSS | 2022/01/17 |
| 2022/01560 | LIQUID DRESSING COMPOSITIONS AND THEIR VETERINARY USES | 2022/02/04 |
| 2022/01900 | METHOD FOR MANUFACTURING SURFACE ENHANCED RAMAN SPECTROSCOPY TAGS | 2022/02/14 |
| 2022/01901 | FLUID FILTER FOR A MOTOR VEHICLE AND FILTER CARTRIDGE FOR A FLUID FILTER | 2022/02/14 |
| 2022/02237 | NOVEL HETEROARYL-TRIAZOLE COMPOUNDS AS PESTICIDES | 2022/02/22 |
| 2022/02724 | METHODS AND APPARATUSES FOR HANDLING CONFIGURED AND DYNAMIC DOWNLINK TRANSMISSIONS IN A WIRELESS COMMUNICATION NETWORK | 2022/03/07 |
| 2022/03208 | RECOMBINANTLY ENGINEERED, LIPASE/ESTERASE-DEFICIENT | 2022/03/17 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | MAMMALIAN CELL LINES | |
| 2022/03218 | ABRASIVE FOR JET CUTTING | 2022/03/17 |
| 2022/03414 | CROSS-SPECIES ANTI-LATENT TGF-BETA 1 ANTIBODIES AND METHODS OF USE | 2022/03/23 |
| 2022/03449 | PLASTIC CONTAINER FOR LIQUIDS AND METHOD FOR PRODUCING A PLASTIC CONTAINER | 2022/03/24 |
| 2022/03787 | RARE EARTH ELEMENT CONTAINING ZEOLITIC MATERIAL HAVING THE AEI FRAMEWORK TYPE AND COATED MONOLITH SUBSTRATE | 2022/04/01 |
| 2022/03914 | METHOD FOR MANUFACTURING A PELLET IN A PELLET MILL, A PELLET AND ITS USE | 2022/04/06 |
| 2022/04022 | PROCESS AND APPARATUS FOR CONVERTING POLYMERS INTO PRODUCTS | 2022/04/08 |
| 2022/04201 | IFIT POLYPEPTIDES AND USES FOR TREATING TUBERCULOSIS INFECTION | 2022/04/13 |
| 2022/04437 | ANTI-PD-L1 ANTIBODIES AND ANTIBODY-DRUG CONJUGATES | 2022/04/20 |
| 2022/04625 | FORMULATION COMPRISING CARNAUBA WAX AND AT LEAST ONE PARTICULAR SORBITAN MONOESTER | 2022/04/25 |
| 2022/04626 | PURIFICATION OF SCANDIUM CONCENTRATE | 2022/04/25 |
| 2022/04708 | METHODS AND PRODUCTS FOR PRODUCT TRACING AND AUTHENTICATION USING CONDUCTIVE INKS | 2022/04/28 |
| 2022/04795 | FEEDWELL APPARATUS, TROUGH, PLANT AND USE | 2022/04/29 |
| 2022/04935 | REACTIVE, REVERSIBLE BLADE TURBINE FOR POWER GENERATION AND PUMPING WATER | 2022/05/05 |
| 2022/05498 | COMPOSITE FERTILISER SYSTEMS | 2022/05/18 |
| 2022/05945 | MODIFIED DAAO ENZYME AND APPLICATION THEREOF | 2022/05/27 |
| 2022/06418 | AMPHIREGULIN GENE-SPECIFIC DOUBLE-STRANDED OLIGONUCLEOTIDE AND COMPOSITION FOR PREVENTING AND TREATING FIBROSIS-RELATED DISEASES AND RESPIRATORY DISEASES, COMPRISING SAME | 2022/06/09 |
| 2022/06701 | PYRANOMETER | 2022/06/17 |
| 2022/08458 | HEATING ELEMENT HAVING HEAT | 2022/07/28 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | CONDUCTIVE AND WICKING FILAMENTS | |
| 2022/08523 | IMAGE CODING DEVICE AND METHOD BASED ON FILTERING-RELATED INFORMATION SIGNALING | 2022/07/29 |
| 2022/09459 | FLUID MONITORING | 2022/08/24 |
| 2022/10517 | FRACTAL CAPACITIVE SENSOR AND NON-INVASIVE VOLTAGE MEASUREMENT APPARATUS INCORPORATING SAME | 2022/09/22 |
| 2022/11303 | ANTI- MUC1-SEA ANTIBODIES | 2022/10/14 |
| 2022/11834 | TURBINE WITH SECONDARY ROTORS | 2022/10/31 |
| 2022/12076 | COOLING SYSTEM AND WIND POWER GENERATOR SET | 2022/11/04 |
| 2023/00162 | APPARATUS AND METHOD FOR ROASTING COFFEE BEANS | 2023/01/03 |
| 2023/00165 | A HYDRAULIC CYLINDER MOUNTING ARRANGEMENT | 2023/01/03 |
| 2023/01220 | SYNTHESIS OF HETEROCYCLIC COMPOUNDS FROM CARBOXAMIDE AND CARBOXAMIDE DERIVATIVES WITH HALOALKANOLS | 2023/01/30 |
| 2023/01541 | TROLLEY-ASSISTED WORK MACHINE, ARRANGEMENT AND METHOD | 2023/02/07 |
| 2023/01796 | DRILL STRING JOINT DESIGN | 2023/02/14 |
| 2023/01865 | METHOD AND SYSTEM FOR DETECTING AND AUTHENTICATING A TAGGANT IN A MARKING VIA SURFACE-ENHANCED RAMAN SPECTROSCOPY | 2023/02/15 |
| 2023/01993 | APPARATUS AND PROCESS FOR ROASTING AND DISCHARGING COFFEE BEANS | 2023/02/17 |
| 2023/01996 | PESTICIDALLY ACTIVE HETEROCYCLIC DERIVATIVES WITH SULFUR CONTAINING SUBSTITUENTS | 2023/02/17 |
| 2023/02148 | METHOD FOR SOLVOLYSING TYRES WITH RECYCLING OF A HYDROCARBON FRACTION COMPRISING AROMATIC COMPOUNDS | 2023/02/21 |
| 2023/02166 | A PROCESS AND EQUIPMENT FOR MANUFACTURING A REINFORCED SACHET | 2023/02/21 |
| 2023/02167 | AN IMPROVED FLEXIBLE PACKAGE FOR FOOD OR BEVERAGE PREPARATION HAVING A RIGID | 2023/02/21 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | PART | |
| 2023/02171 | METHOD FOR ROASTING COFFEE BEANS | 2023/02/21 |
| 2023/02272 | REPORTING OF INTEGRITY-RELATED INFORMATION FOR POSITIONING | 2023/02/22 |
| 2023/03250 | FORMULATIONS OF A SOMATOSTATIN MODULATOR | 2023/03/01 |
| 2023/03353 | METHOD FOR THE MANAGEMENT OF A WAREHOUSE THAT HOUSES PNEUMATIC TYRES FITTED WITH TRANSPONDERS AND ARRANGED IN VERTICAL STACKS | 2023/03/06 |
| 2023/03373 | SELECTION MECHANISM AND USE OF MULTIPLE UL TRANSMISSION SCHEMES | 2023/03/06 |
| 2023/03456 | USE OF BENZODIAZEPINES TO INCREASE SENSITIVITY TO PSILOCYBIN FOLLOWING A CHRONIC SSRI REGIMEN | 2023/03/09 |
| 2023/03491 | FEATURES FOR ANGIOGRAPHY SYRINGE | 2023/03/10 |
| 2023/03664 | A TUNEABLE CAPACITOR | 2023/03/17 |
| 2023/04034 | DEVICE AND ASSOCIATED METHOD FOR CONTAMINANT DETECTION AND MAPPING | 2023/03/31 |
| 2023/04071 | TRANSPORT AND STORAGE CONTAINER FOR LIQUIDS | 2023/03/31 |
| 2023/04080 | METHOD FOR JUDGING WATER QUALITY LEVEL BASED ON SUBMERGED PLANT POLLUTION RESISTANCE VALUE | 2023/03/20 |
| 2023/04233 | PHARMACEUTICAL COMPOSITION OF GLP-1/GLP-2 DUAL AGONISTS | 2023/04/06 |
| 2023/04234 | PHARMACEUTICAL COMPOSITION OF GLP-1/GLP-2 DUAL AGONISTS | 2023/04/06 |
| 2023/04235 | PHARMACEUTICAL COMPOSITION OF GLP-1/GLP-2 DUAL AGONISTS | 2023/04/06 |
| 2023/04288 | DIRECT CONVERSION OF ESTERS TO CARBOXYLATES | 2023/04/11 |
| 2023/04295 | IMPROVEMENTS IN OR RELATING TO COPPER BASED PESTICIDES | 2023/04/11 |
| 2023/04341 | HYDROCARBON UPGRADING TO METHANOL AND HYDROGEN PRODUCT STREAMS | 2023/04/12 |
| 2023/04507 | ELECTRICAL POWER TRANSMISSION | 2023/04/18 |
| 2023/04591 | ANTI-CD73 ANTIBODY AND USE THEREOF | 2023/04/20 |
| 2023/04652 | SEALING SYSTEM WITH AUTOMATIC COMPENSATION FOR THERMAL EXPANSION FOR A | 2023/04/21 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | ROTARY CYLINDRICAL REACTOR | |
| 2023/04703 | TRAILING ARM ASSEMBLY | 2023/04/24 |
| 2023/04734 | ALPHA PROTEIN KINASE 1 INHIBITORS AND METHODS OF USE | 2023/04/24 |
| 2023/04912 | COMPUTER-IMPLEMENTED MONITORING METHODS AND SYSTEMS FOR A PLANT PRODUCING CHEMICALS AND FUELS UTILIZING CARBON CAPTURE | 2023/05/02 |
| 2023/04932 | MICROORGANISM HAVING ENHANCED L-GLUTAMINE PRODUCING ABILITY, AND L-GLUTAMINE PRODUCING METHOD USING SAME | 2023/05/03 |
| 2023/05055 | SIDE SUPPORTED MINING PACK | 2023/05/08 |
| 2023/05216 | NOVEL TRYPANOSOMAL VACCINE | 2023/05/11 |
| 2023/05255 | HYBRID ELECTRICAL POWER GENERATION SYSTEM AND METHOD OF SIMULATING THE SAME | 2023/05/12 |
| 2023/05330 | METHOD AND SYSTEM FOR RECYCLING OF DISTILLATION ENERGY IN PLANTS WITH CO2 IMPORT FROM CARBON CAPTURE | 2023/05/16 |
| 2023/05331 | TRANSACTION CARD WITH PARTIAL GLASS LAYER | 2023/05/16 |
| 2023/05332 | METHOD AND PLANT FOR PRODUCING SYNGAS | 2023/05/16 |
| 2023/05334 | METHOD AND SYSTEM FOR GENERATING A DYNAMIC CARD VERIFICATION VALUE FOR PROCESSING A TRANSACTION | 2023/05/16 |
| 2023/05373 | MODULATORS OF THE INTEGRATED STRESS RESPONSE PATHWAY | 2023/05/17 |
| 2023/05429 | ANTIBODY FOR TETANUS TOXIN AND USE THEREOF | 2023/05/18 |
| 2023/05510 | FILTER PRESS LOCKING MEANS | 2023/05/22 |
| 2023/05587 | BARRIER ARRANGEMENT | 2023/05/24 |
| 2023/05636 | NOVEL AEROSOL-GENERATING SUBSTRATE | 2023/05/25 |
| 2023/05647 | PROTEINS FOR THE DETECTION OF SCHISTOSOMA INFECTION | 2023/05/25 |
| 2023/05650 | A BANKNOTE STACK TRANSPORT ARRANGEMENT AND A CASH HANDLING MACHINE | 2023/05/25 |
| 2023/05697 | BIOMASS DIRECT REDUCED IRON | 2023/05/26 |
| 2023/05746 | CHLOROSIS RESISTANT CYTOPLASMIC MALE STERILE BRASSICA PLANTS | 2023/05/29 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| 2023/05799 | SYSTEM AND METHOD OF DIRECTING THREE DIMENSIONAL SCANNING | 2023/05/30 |
| 2023/06124 | RESERVOIR-REGULATING DIGITAL LOAD CONTROL | 2023/06/09 |
| 2023/06238 | PORTABLE COMMUNICATION DEVICE INCLUDING SEALING MEMBER | 2023/06/14 |
| 2023/06380 | RNA-GUIDED HUMAN GENOME ENGINEERING | 2023/06/20 |
| 2023/06673 | COMPOSITIONS AND METHODS FOR TREATING HEMOGLOBINOPATHIES | 2023/06/29 |
| 2023/06766 | METHOD FOR DETERMINING MIXING PARAMETERS FOR THE PREPARATION OF A PHOSPHORIC ACID SOLUTION COMPRISING A CONTROLLED CONTENT OF ONE OR MORE OF ITS CONSTITUENTS | 2023/06/30 |
| 2023/06839 | STACKABLE QUARTER-SIZE PLASTIC PLATFORM AND ASSOCIATED METHODS | 2023/07/05 |
| 2023/07131 | METAL, CERAMIC, OR CERAMIC-COATED TRANSACTION CARD WITH WINDOW OR WINDOW PATTERN AND OPTIONAL BACKLIGHTING | 2023/07/17 |
| 2023/07285 | A METHOD FOR COOLING OF A USER SPACE AND AIR CONDITIONING ARRANGEMENT | 2023/07/21 |
| 2023/07403 | METHOD OF PROVIDING BROAD-SPECTRUM RESISTANCE TO PLANTS, AND PLANTS THUS OBTAINED | 2023/07/25 |
| 2023/07747 | SPROCKET AND CHAIN DRIVE SYSTEM | 2023/08/07 |
| 2023/09423 | NAKED COLLATION PACKAGE FILM | 2023/10/09 |
| 2023/09630 | PREDICTIVE HEALTH AND PREVENTATIVE EMERGENCY MONITORING WEARABLE, SYSTEM AND METHOD | 2023/10/16 |
| 2023/09864 | A PHARMACEUTICAL COMPOSITION COMPRISING FAMOTIDINE | 2023/10/23 |
| 2023/10145 | BELT LIFTER | 2023/10/31 |
| 2023/10378 | COMPLEMENT FACTOR B INHIBITOR, AND PHARMACEUTICAL COMPOSITION THEREOF, PREPARATION METHOD THEREFOR AND USE THEREOF | 2023/11/07 |
| 2023/10508 | AIR RELIEF VALVE ARRANGEMENT | 2023/11/13 |
| 2023/10630 | A SECURE ENERGY TRANSACTION | 2023/11/16 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | SYSTEM | |
| 2023/11007 | ORGANOTRISULFIDE AND ORGANOTETRASULFIDE COMPOUNDS AND THE USE THEREOF IN METHODS OF TREATMENT | 2023/11/29 |
| 2023/11244 | LOW GLOBAL WARMING REFRIGERANT BLENDS | 2023/12/06 |
| 2023/11446 | COMPOSITE ROCK BOLT | 2023/12/13 |
| 2024/00142 | WALKING DEVICE FOR WALKING ON SOLAR MODULES | 2024/01/03 |
| 2024/00395 | NOVEL ARYL ETHER SUBSTITUTED HETEROCYCLIC COMPOUND AS GLP1R AGONIST | 2024/01/11 |
| 2024/01100 | HUMAN INTERLEUKIN-4 RECEPTOR ALPHA ANTIBODIES | 2024/02/02 |
| 2024/01225 | PACKAGING MATERIAL FOR AGRICULTURAL PRODUCTS AND METHOD FOR PRODUCING A PACKAGING MATERIAL FOR AGRICULTURAL PRODUCTS | 2024/02/07 |
| 2024/01241 | DIHYDRO-2H-ISOINDOLE ESTER COMPOUND | 2024/02/08 |
| 2024/01277 | CONTAINER AND BEVERAGE OR FOODSTUFF PREPARATION SYSTEM COMPRISING THE CONTAINER | 2024/02/09 |
| 2024/01301 | CONTRAST AGENT MIXER | 2024/02/12 |
| 2024/01593 | SYSTEMS FOR INSTALLING ON A WIND TURBINE TOWER MOVING OBJECTS MONITORING DEVICES AND/OR MOVING OBJECTS COLLISION PREVENTION DEVICES | 2024/02/22 |
| 2024/01606 | CHIMERIC ANTIGEN RECEPTORS (CAR) FOR B CELL MALIGNANCIES | 2024/02/23 |
| 2024/01614 | TANK AND SILO SYSTEM | 2024/02/23 |
| 2024/01666 | AEROSOL SOURCE FOR A VAPOUR PROVISION SYSTEM | 2024/02/27 |
| 2024/01725 | 5-HYDROXYTRYPTOPHAN GASTRORETENTIVE DOSAGE FORMS | 2024/02/28 |
| 2024/01729 | A POWERTRAIN SUPPORT ARRANGEMENT, AND A MOBILE UNDERGROUND MINING MACHINE | 2024/02/28 |
| 2024/01734 | DRY POWDER MEDICAMENT INHALER | 2024/02/28 |
| 2024/01742 | INTERMITTENT DOSING OF GLUCOCORTICOID RECEPTOR MODULATORS FOR THE TREATMENT OF OVARIAN AND OTHER CANCERS | 2024/02/28 |
| 2024/01768 | IMMUNOMODULATING AZALIDES | 2024/02/29 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| 2024/01802 | SYSTEM AND METHOD FOR GOLF COURSE MANAGEMENT | 2024/03/01 |
| 2024/01838 | METHOD OF PRODUCING PROTEIN ISOLATE FROM SUNFLOWER MEAL | 2024/03/04 |
| 2024/01863 | COMMON SPATIAL FILTER INDICATION FOR CORESETS IN MULTI-TRANSMISSION RECEPTION POINT SYSTEMS | 2024/03/05 |
| 2024/01877 | ENDOSTATIN PEPTIDES FOR THE TREATMENT OF TUMORS, FIBROSIS AND ACUTE LUNG INJURY | 2024/03/05 |
| 2024/02020 | METHOD AND SYSTEM FOR PROVIDING A SITE-SPECIFIC FERTILIZER RECOMMENDATION | 2024/03/11 |
| 2024/02174 | DRY POWDER MEDICAMENT INHALER | 2024/03/18 |
| 2024/02413 | USE OF A FEED ADDITIVE IN LOW ENERGY FEED FOR PIGS | 2024/03/26 |
| 2024/02416 | METHOD OF NAVIGATING AN AUTOMATED GUIDED VEHICLE FOR INTERNAL LOGISTICS AND A SYSTEM FOR ITS IMPLEMENTATION | 2024/03/26 |
| 2024/02433 | A CORNER INSERT FOR FORMWORK PANELS | 2024/03/26 |
| 2024/02460 | DEVICE FOR DETERMINING THE COEFFICIENT OF DYNAMIC FRICTION OF FLEXIBLE PLANAR AND/OR LINEAR STRUCTURES AND A METHOD FOR DETERMINING THE COEFFICIENT OF DYNAMIC FRICTION | 2024/03/27 |
| 2024/02560 | A METHOD OF IMPROVING STABILITY OF IMMUNE CHECK POINT INHIBITORS | 2024/04/02 |
| 2024/02561 | A PHARMACEUTICAL FORMULATION OF IMMUNE CHECK POINT INHIBITORS | 2024/04/02 |
| 2024/02562 | SYSTEM AND METHOD FOR CHARGING AN ELECTRIC VEHICLE | 2024/04/02 |
| 2024/02564 | SYSTEM AND METHOD FOR SUPPORTING ELEVATED POWER RAILS | 2024/04/02 |
| 2024/02622 | METHOD AND APPARATUS FOR POINT CLOUD COMPRESSION USING HYBRID DEEP ENTROPY CODING | 2024/04/04 |
| 2024/02934 | METHOD FOR RECYCLING POLYOLEFIN CONTAINERS | 2024/04/16 |
| 2024/02938 | MACHINE FOR HANDLING A LOAD OR A PERSON | 2024/04/16 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| 2024/02939 | HANDLING MACHINE | 2024/04/16 |
| 2024/02956 | METHODS FOR IMPROVING THE ADSORPTION OF POLYSACCHARIDE-PROTEIN CONJUGATES AND MULTIVALENT VACCINE FORMULATION OBTAINED THEREOF | 2024/04/17 |
| 2024/02957 | IMAGE RESHAPING IN VIDEO CODING USING RATE DISTORTION OPTIMIZATION | 2024/04/17 |
| 2024/02989 | CONTAINER CLOSURE AND CONTAINER | 2024/04/17 |
| 2024/03031 | METHOD INVOLVING A NEEDLE-BASED DEVICE WITH A SAFETY MECHANISM IMPLEMENTED THEREIN | 2024/04/18 |
| 2024/03033 | METHODS FOR REFORMING A HEAVY AROMATIC STREAM | 2024/04/18 |
| 2024/03035 | SUPPORT ELEMENT FOR SUPPORTING A SOLAR MODULE | 2024/04/18 |
| 2024/03036 | HETERODIMERIC FC CYTOKINES AND USES THEREOF | 2024/04/18 |
| 2024/03052 | WING CARGO PARACHUTE SYSTEM UTILIZING DYNAMIC BRAKING TO REDUCE OPENING SHOCK | 2024/04/19 |
| 2024/03101 | ANTIVIRAL PRODRUGS AND NANOFORMULATIONS THEREOF | 2024/04/22 |
| 2024/03114 | SPECIFIC BINDING MOLECULES FOR FIBROBLAST ACTIVATION PROTEIN (FAP) | 2024/04/22 |
| 2024/03116 | ROLLER CRUSHER AND METHOD FOR OPERATION THEREOF | 2024/04/22 |
| 2024/03118 | DEMINERALISATION OF ORGANIC TISSUE | 2024/04/22 |
| 2024/03154 | ENCLOSURE FOR MOUNTING AN EXTINGUISHING DEVICE OF A FIREFIGHTING SYSTEM, MOUNTING DEVICE, AND METHOD FOR MOUNTING AN EXTINGUISHING DEVICE OF A FIREFIGHTING SYSTEM | 2024/04/23 |
| 2024/03155 | SANDWICH PLATE ELEMENT CONNECTION SYSTEM AND METHOD FOR CONNECTING SANDWICH PLATE ELEMENTS | 2024/04/23 |
| 2024/03156 | DNA CONSTRUCTS AND HOST CELLS FOR EXPRESSING RECOMBINANT PROTEIN | 2024/04/23 |
| 2024/03157 | HYDRATABLE CONCENTRATED SURFACTANT COMPOSITIONS | 2024/04/23 |
| 2024/03158 | COMPOSITIONS | 2024/04/23 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| 2024/03159 | SKIN CARE COMPOSITION | 2024/04/23 |
| 2024/03160 | CLOSING CAP FOR A CONTAINER | 2024/04/23 |
| 2024/03161 | HYDRATABLE CONCENTRATED SURFACTANT COMPOSITIONS | 2024/04/23 |
| 2024/03162 | HYDRATABLE CONCENTRATED SURFACTANT COMPOSITIONS | 2024/04/23 |
| 2024/03229 | PROTOCOL DATA UNIT (PDU) SESSION INFORMATION FOR DIFFERENT NETWORK SERVICE TYPES | 2024/04/25 |
| 2024/03249 | METAL CARD WITH BIOMETRIC FEATURES | 2024/04/26 |
| 2024/03279 | METHOD FOR PREPARING A FERTILISER COMPOSITION | 2024/04/26 |
| 2024/03282 | PACKAGING BAG AND USE OF THE PACKAGING BAG | 2024/04/26 |
| 2024/03286 | FRACTURING HOT ROCK | 2024/04/26 |
| 2024/03308 | AN EFFICIENT NEW PROCESS FOR SYNTHESIS OF 2-AMINO-5-CHLORO-N-,3-DIMETHYLBENZAMIDE | 2024/04/29 |
| 2024/03319 | GAMETOCYTOCIDAL COMPOUND | 2024/04/29 |
| 2024/03332 | IMPROVED CATALYTIC REACTOR FOR THE CONVERSION OF CARBON DIOXIDE AND HYDROGEN TO SYNGAS | 2024/04/29 |
| 2024/03334 | SYSTEMS AND METHODS FOR CONTROLLING A POWER-TO-X PROCESS TO REDUCE FEEDSTOCK COSTS | 2024/04/29 |
| 2024/03337 | LIPID NANOPARTICLES FOR OLIGONUCLEOTIDE DELIVERY | 2024/04/29 |
| 2024/03360 | LIPID NANOPARTICLES FOR OLIGONUCLEOTIDE DELIVERY | 2024/04/30 |
| 2024/03377 | A PERSONAL CLEANSING COMPOSITION | 2024/04/30 |
| 2024/03379 | SYSTEM AND METHOD FOR GENERATING BUBBLES IN A VESSEL | 2024/04/30 |
| 2024/03380 | CHROMIUM PHOSPHINYL ISOINDOLE AMIDINE COMPLEXES FOR TETRAMERIZATION OF ETHYLENE | 2024/04/30 |
| 2024/03385 | REACTOR HAVING DYNAMIC SPARGER | 2024/04/30 |
| 2024/03393 | SYNTHETIC CHIMERIC POXVIRUSES | 2024/05/02 |
| 2024/03410 | BIODEGRADABLE WIPE | 2024/05/02 |
| 2024/03415 | ANTIBODIES AGAINST EXTRACELLULAR EPITOPES OF HUMAN TRPV6 CHANNEL AND THEIR DIAGNOSTIC AND | 2024/05/02 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | THERAPEUTIC USES | |
| 2024/03436 | EXTENDED RANGE OF FUEL CELL MACHINE | 2024/05/03 |
| 2024/03463 | PERSONAL CARE COMPOSITION | 2024/05/06 |
| 2024/03484 | PROCESS FOR DEEPLY REMOVING FLUORINE FROM WASTEWATER BY MEANS OF INDUCED CRYSTALLIZATION METHOD IN SLUDGE BACKFLOW | 2024/05/07 |
| 2024/03489 | AIRFIELD GROUND LIGHT WITH INTEGRATED LIGHT CONTROLLER THAT EMPLOYS POWERLINE COMMUNICATIONS AND SENSORS | 2024/05/07 |
| 2024/03493 | FORMULATION FOR COATING GLASS CONTAINERS | 2024/05/07 |
| 2024/03511 | PROCESSES FOR RECOVERING RHODIUM FROM HYDROFORMYLATION PROCESSES | 2024/05/07 |
| 2024/03547 | A PERSONAL CARE OR PHARMACEUTICAL COMPOSITION | 2024/05/08 |
| 2024/03548 | PERSONAL CARE COMPOSITION | 2024/05/08 |
| 2024/03549 | COSMETIC SWEAT MANAGEMENT COMPOSITIONS | 2024/05/08 |
| 2024/03550 | AN ANTIMICROBIAL COMPOSITION | 2024/05/08 |
| 2024/03590 | BIOREACTOR SYSTEM TO PRODUCE METAL | 2024/05/09 |
| 2024/03593 | PROCESS FOR PRODUCING WATER RESISTANT PLASTERBOARDS WITH FIBER CEMENT POWDER | 2024/05/09 |
| 2024/03615 | POCKET-SIZE DEVICE FOR ISOTHERMAL NUCLEIC ACID AMPLIFICATION | 2024/05/10 |
| 2024/03617 | HYDROGEN LIQUEFIER | 2024/05/10 |
| 2024/03618 | SUBMERGED NOZZLE COMPRISING CONTINUOUS CIRCUMFERENTIAL WAVY RIBS | 2024/05/10 |
| 2024/03699 | ANTIMICROBIAL SYSTEM WITH BETA CARBOLINE ALKALOID AND PHENOLIC ACID AND COMPOSITIONS COMPRISING THEM | 2024/05/13 |
| 2024/03700 | ANTIMICROBIAL SYSTEM WITH BETA CARBOLINE ALKALOID AND INDOLE ALKALOID AND COMPOSITIONS COMPRISING THEM | 2024/05/13 |
| 2024/03701 | LIQUID COMPOSITION HAVING ENHANCED ANTIMICROBIAL ACTIVITY | 2024/05/13 |
| 2024/03703 | LIQUID COMPOSITION OF CERAMIDES AND PALMITIC ACID | 2024/05/13 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | AMIDES | |
| 2024/03734 | DISPLAY STRIP FOR SHELF END USE | 2024/05/15 |
| 2024/03756 | SELF-CLEANING DEVICE FOR APPLYING MATERIAL BETWEEN THE GROUT LINES OF TILES ON VERTICAL SURFACES | 2024/05/15 |
| 2024/03808 | TELESCOPIC BOOM LIFT | 2024/05/16 |
| 2024/03809 | PRESSURISED ELECTROLYSER | 2024/05/16 |
| 2024/03810 | CHROMIUM BICYCLIC PHOSPHINYL AMIDINE COMPLEXES FOR TETRAMERIZATION OF ETHYLENE | 2024/05/16 |
| 2024/03811 | CHROMIUM PHOSPHINYL HYDROISOINDOLE AMIDINE COMPLEXES FOR TETRAMERIZATION OF ETHYLENE | 2024/05/16 |
| 2024/03837 | MUTATED PROTOPORPHYRINOGEN IX OXIDASE (PPX) GENES | 2024/05/17 |
| 2024/03839 | OPTICAL BRANCHING AND TERMINATION BOX | 2024/05/17 |
| 2024/03858 | DEVICE AND METHOD FOR DILATION OF A TUBULAR ANATOMICAL STRUCTURE | 2024/05/17 |
| 2024/03860 | METHOD AND APPARATUS FOR ROBUST MESSAGE TRANSMISSION RECEPTION OVER FRONTHAUL NETWORK | 2024/05/17 |
| 2024/03861 | A HOT COFFEE BREWING APPARATUS | 2024/05/17 |
| 2024/03862 | CONTAINER AND LATCHING SYSTEM | 2024/05/17 |
| 2024/03863 | ANTIPERSPIRANT COMPOSITION | 2024/05/17 |
| 2024/03906 | INJECTABLE AND INHALABLE FORMULATIONS | 2024/05/20 |
| 2024/03969 | CONNECTOR ASSEMBLY | 2024/05/22 |
| 2024/03973 | METHOD AND DEVICE FOR CONTINUOUS OPERATION OF FISCHER-TROPSCH SYNTHESIS CATALYST | 2024/05/22 |
| 2024/03999 | SLIDING CLOSURE FOR A METALLURGICAL VESSEL, AND AN EXCHANGEABLE SPOUT | 2024/05/22 |
| 2024/04000 | WEAR ASSEMBLY FOR A BUCKET OF AN EXTRACTION OR WORKS MACHINE | 2024/05/22 |
| 2024/04001 | OPTICAL SURFACE OF A HIGH-PRECISION METAL MIRROR WITH VERY LOW ROUGHNESS AND SHAPE DEFECT | 2024/05/22 |
| 2024/04002 | ANTIMICROBIAL SYSTEM WITH INDOLE ALKALOID AND PHENOLIC | 2024/05/22 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | ACID AND COMPOSITIONS COMPRISING THEM | |
| 2024/04031 | AEROSOL-GENERATING ARTICLE WITH PHOTOLUMINESCENT TAGGANT | 2024/05/23 |
| 2024/04043 | POWDERED COSMETIC COMPOSITION | 2024/05/23 |
| 2024/04044 | BAR COMPOSITION HAVING ENHANCED ANTIMICROBIAL ACTIVITY | 2024/05/23 |
| 2024/04047 | COSMETIC SWEAT MANAGEMENT COMPOSITIONS | 2024/05/23 |
| 2024/04071 | METHOD AND SYSTEM | 2024/05/24 |
| 2024/04076 | ASSEMBLY OF A CUP, LINER AND LID FOR A PAINT SPRAY GUN | 2024/05/24 |
| 2024/04115 | CONCENTRIC CONDUCTOR | 2024/05/27 |
| 2024/04117 | SLIDABLE NESTED CONDUCTORS | 2024/05/27 |
| 2024/04118 | TERMINAL ASSEMBLY FOR CONDUCTOR ROD HAVING MULTIPLE DEGREES OF FREEDOM | 2024/05/27 |
| 2024/04119 | CONNECTOR ASSEMBLY FOR CONDUCTOR ROD HAVING MULTIPLE DEGREES OF FREEDOM | 2024/05/27 |
| 2024/04120 | MULTI-TIERED INTERFACE BETWEEN CONDUCTOR ROD AND WORK MACHINE | 2024/05/27 |
| 2024/04121 | RADIAL AND AXIAL INTERFACE BETWEEN CONDUCTOR ROD AND WORK MACHINE | 2024/05/27 |
| 2024/04123 | SYSTEM AND METHOD FOR POSITIONING A CONDUCTIVE ROD POWERING A WORK MACHINE | 2024/05/27 |
| 2024/04124 | BATTERY MANAGEMENT FOR MACHINE SERVICE OPERATIONS | 2024/05/27 |
| 2024/04151 | AN ANTIFUNGAL COMPOSITION | 2024/05/27 |
| 2024/04152 | PERSONAL CARE COMPOSITION | 2024/05/27 |
| 2024/04185 | TRACKING DEVICE FOR SOLAR MODULES | 2024/05/28 |
| 2024/04186 | METHOD AND APPARATUS FOR PRODUCING A CALIBRATED STAMPED PART | 2024/05/28 |
| 2024/04188 | THERAPEUTIC AGENT FOR NERVE DISORDERS | 2024/05/28 |
| 2024/04218 | ADJUVANT COMPOUNDS AND FORMULATIONS | 2024/05/30 |
| 2024/04277 | PIPE APPARATUS, COUPLING DEVICES, AND METHODS | 2024/05/31 |
| 2024/04352 | SECURITY SYSTEM AND APPARATUS | 2024/06/04 |
| 2024/04371 | PREPARATION METHOD FOR GLUFOSINATE AMMONIUM | 2024/05/31 |
| 2024/04418 | HEMP HURD-BASED NONWOVEN | 2024/06/06 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | MATERIAL AND RELATED PRODUCTION METHOD | |
| 2024/04850 | WATER TREATMENT PITCHER | 2024/06/20 |
| 2024/04876 | DEVICE FOR COMBUSTING AMMONIA | 2024/06/21 |
| 2024/05141 | SEPARATOR AND AGRICULTURAL SPREADER | 2024/07/01 |
| 2024/05161 | REUSABLE PLASTIC BOTTLE | 2024/07/02 |
| 2024/05487 | METHOD FOR ERECTING A TRANSPORTATION STRUCTURE | 2024/07/15 |
| 2024/05555 | TRANSPORTATION STRUCTURE | 2024/07/17 |
| 2024/05560 | METHOD FOR ERECTING A TRANSPORTATION STRUCTURE | 2024/07/17 |
| 2024/05592 | METHOD FOR ERECTING A TRANSPORTATION STRUCTURE | 2024/07/18 |
| 2024/05625 | METHOD FOR THE TREATMENT OF FERROUS SCRAP COMPRISING MAGNETIC AND NONMAGNETIC MATERIALS AND ASSOCIATED PLANT | 2024/07/19 |
| 2024/05626 | METHOD FOR ERECTING A TRANSPORTATION STRUCTURE | 2024/07/19 |
| 2024/05629 | VEHICLE FLOOR PANEL REINFORCEMENT MEMBER | 2024/07/19 |
| 2024/05630 | METHOD FOR ERECTING A TRANSPORTATION STRUCTURE | 2024/07/19 |
| 2024/05978 | PRODUCE BIN ASSEMBLY | 2024/08/02 |
| 2024/07397 | APPARATUS AND METHOD FOR MAGNETISING MATERIALS | 2024/09/27 |
| 2024/08596 | FLASH JOULE HEATING FOR PRODUCTION OF 1D CARBON AND/OR BORON NITRIDE NANOMATERIALS | 2024/11/12 |
| 2024/08640 | KEY ELEMENT, LOCK CYLINDER, LOCKING SYSTEM, AND METHOD | 2024/11/13 |
| 2024/08657 | PROCESS FOR REMOVING SALTS FROM AN ALUMINIUM DROSS | 2024/11/14 |
| 2024/08671 | INFLATION METHOD FOR A VEHICLE PROVIDED WITH A CENTRALISED TYRE INFLATION SYSTEM | 2024/11/14 |
| 2024/08755 | ADSORBENT FOR SEPARATION OF A GASEOUS STREAM | 2024/11/18 |
| 2024/08830 | HERBICIDAL IMIDAZOLE-CONTAINING COMPOUNDS | 2024/11/20 |
| 2024/08832 | CONCRETE DISTRIBUTING BOOM, CONCRETE PUMPING EQUIPMENT AND METHOD AND EQUIPMENT FOR MANUFACTURING CONCRETE DISTRIBUTING BOOM BRACKET | 2024/11/20 |
| 2024/08841 | APPARATUS AND METHOD FOR DETECTING MATTER AND MICRO- | 2024/11/20 |

| Application Number | Patent Title | Filing Date |
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| | ORGANISMS | |
| 2024/08860 | PIVOT CONTROL MECHANISM FOR A SHUTTER LOUVRE | 2024/11/21 |
| 2024/08893 | MAGNETIC LEVITATION CENTRIFUGAL PUMP | 2024/11/22 |
| 2024/08894 | MAGNETIC SUSPENSION TYPE CENTRIFUGAL PUMP | 2024/11/22 |
| 2024/08899 | ALL-TERRAIN SOLAR TRACTOR VEHICLE HAVING INTERCHANGEABLE MODULES | 2024/11/22 |
| 2024/08956 | TRANSIENT OVERVOLTAGE DETECTION SYSTEM AND METHOD | 2024/11/25 |
| 2024/08969 | RANDOM ACCESS IN COMMUNICATION SYSTEM | 2020/02/06 |
| 2024/08993 | DEVICE FOR ANTI-AIRCRAFT SPOOFING AND JAMMING AND AN AIR DEFENSE SYSTEM COMPRISING SAID DEVICE | 2024/11/26 |
| 2024/08997 | COMPOSITION FOR ELECTRODE ROD, ELECTRODE ROD, METHOD FOR MANUFACTURING ELECTRODE ROD, AND METHOD FOR PRODUCING MOLTEN METAL | 2024/11/26 |
| 2024/09007 | PROCESS FOR THE PREPARATION OF 4-SUBSTITUTED 2-OXAZOLIDINONES | 2024/11/26 |
| 2024/09107 | ENERGY-EFFICIENT PROCESS FOR SEPARATION OF 1-BUTENE FROM A HYDROCARBON STREAM USING A HEAT TRANSFER MEDIUM | 2024/11/28 |
| 2024/09108 | ENERGY-EFFICIENT PROCESS FOR SEPARATION OF 1-BUTENE FROM A HYDROCARBON STREAM | 2024/11/28 |
| 2024/09109 | ENERGY-EFFICIENT PROCESS FOR SEPARATION OF 1-BUTENE FROM A HYDROCARBON STREAM WITH OPTIMIZED VAPOUR COMPRESSION | 2024/11/28 |
| 2024/09110 | ENERGY-EFFICIENT DISTILLATION PROCESS WITH VARIATION OF INFLOW | 2024/11/28 |
| 2024/09111 | ISOXAZOLINE COMPOSITIONS AND THEIR USE AS ANTIPARASITICS | 2024/11/28 |
| 2024/09115 | MIXED METAL ANTI-THEFT SERVICE CONNECTION CABLE | 2024/11/28 |
| 2024/09122 | INTERVENTIONAL BLOOD PUMP | 2024/11/28 |
| 2024/09124 | OPERATION PEDAL DEVICE FOR VEHICLE | 2024/11/28 |
| 2024/09125 | ADDRESS ALLOCATION METHOD AND APPARATUS | 2024/11/28 |
| 2024/09131 | QUICK-DISMOUNTING SCAFFOLD | 2024/11/28 |
| 2024/09132 | SCAFFOLD FOR BUILDING | 2024/11/28 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | CONSTRUCTION | |
| 2024/09133 | SUPPORTING DEVICE FOR SUPPORTING LEG OF BRIDGE ERECTING MACHINE | 2024/11/28 |
| 2024/09134 | PORTAL CRANE MOUNTING METHOD | 2024/11/28 |
| 2024/09163 | PRECISION APPLICATION DEVICES AND COMPOSITIONS | 2024/11/29 |
| 2024/09170 | A SYSTEM AND METHOD FOR COMPARTMENTALIZED INGREDIENTS FOR A LIQUID PHARMACEUTICAL FORMULATION | 2024/11/29 |
| 2024/09171 | METHOD AND SYSTEM FOR BALLISTIC SPECIMEN CLUSTERING | 2024/11/29 |
| 2024/09177 | MODULATORS OF G PROTEIN-COUPLED RECEPTOR 88 | 2024/11/29 |
| 2024/09178 | MODULATORS OF G PROTEIN-COUPLED RECEPTOR 88 | 2024/11/29 |
| 2024/09179 | METAL CORE COATED WITH PLASTIC LINING HAVING COPPER OXIDE NANOPARTICLES | 2024/11/29 |
| 2024/09225 | ARMOURING FOR POWER CABLES | 2024/12/02 |
| 2024/09227 | IMIDAZOPYRIDAZINE SUBSTITUTED BENZENE RING DERIVATIVE, PREPARATION METHOD, PHARMACEUTICAL COMPOSITION AND USE | 2024/12/02 |
| 2024/09243 | A Computer-Implemented Method of Assessing an Accident of a Motor Vehicle, and an Associated System | 2024/12/03 |
| 2024/09253 | ALTERNATING CURRENT POWER SURGE PROTECTIVE DEVICE | 2024/12/03 |
| 2024/09255 | GLEDITSIA SINENSIS SEED PEEL STRIPPING EQUIPMENT | 2024/12/03 |
| 2024/09281 | MASP-2 INHIBITORS AND METHODS OF USE | 2024/11/28 |
| 2024/09303 | METHODS AND SYSTEMS FOR MANAGING ROBOTIC PROCESS AUTOMATION | 2024/12/04 |
| 2024/09350 | PHOTOVOLTAIC POWER GENERATION SHORT-TERM POWER PREDICTION METHOD AND SYSTEM | 2024/12/05 |
| 2024/09425 | A DEVICE FOR PROTECTING AN ASSET | 2024/12/09 |
| 2024/09426 | QUALITY INSPECTION DEVICE AND METHOD FOR SEGMENT ERECTION DURING SHIELD TUNNEL CONSTRUCTION BASED ON BINOCULAR VISION | 2024/12/09 |
| 2024/09430 | TWO-DIMENSIONAL FERROMAGNETIC SINGLE | 2024/12/09 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | CRYSTAL CR1-XVXI3 AND PREPARATION METHOD AND APPLICATION THEREOF | |
| 2024/09443 | PHARMACEUTICAL COMPOSITION FOR TREATING AND RESISTING BLOOD COAGULATION AND USE THEREOF | 2024/12/09 |
| 2024/09468 | GEAR SHIFTING DEVICE, TRANSMISSION MECHANISM, AND WIND TURBINE GENERATOR SYSTEM | 2024/12/09 |
| 2024/09469 | SUPPORTING STRUCTURE FOR FOUNDATION PIT OF GARBAGE STORAGE PIT AND CONSTRUCTION METHOD THEREOF | 2024/12/09 |
| 2024/09470 | DIAGONAL BRACING STRUCTURE FOR FRONT SUPPORTING LEG OF BRIDGE ERECTING MACHINE AND CONSTRUCTION METHOD THEREOF | 2024/12/09 |
| 2024/09471 | ENERGY DISSIPATION SELF-ANCHORED CAISSON | 2024/12/09 |
| 2024/09517 | LIFTING DEVICE AND METHOD FOR HOISTING A RADAR ANTENNA | 2024/12/10 |
| 2024/09528 | A METHOD, DEVICE, SYSTEM, AND STORAGE MEDIUM FOR INDOOR POSITIONING ERROR CALIBRATION | 2024/12/11 |
| 2024/09552 | COMPOUND FOR TREATMENT OF FEMALE SEXUAL DYSFUNCTION | 2024/12/11 |
| 2024/09570 | HIGH-POWER PLANETARY HYDRAULIC TRANSMISSION DRIVE MECHANISM | 2024/12/11 |
| 2024/09573 | IMPROVED SYSTEMS AND METHODS FOR METAL RECOVERY FROM LITHIUM ION BATTERIES | 2024/12/11 |
| 2024/09599 | PHOTOVOLTAIC ROOF TILES | 2024/12/12 |
| 2024/09602 | MINERALISATION OF WOOD PRODUCTS AND MINERALISED WOOD PRODUCTS | 2024/12/12 |
| 2024/09628 | A BIM-BASED LOW-ENERGY CONSUMPTION PREFABRICATED MODULAR RESIDENTIAL INTEGRATED INTELLIGENT BUILDING CONSTRUCTION MANAGEMENT SYSTEM | 2024/12/13 |
| 2024/09641 | HIGH-VOLTAGE HARMONIC CURRENT SOURCE DEVICE CONVERSION MODULE AND CONVERTER COMBINATION DEVICE | 2024/12/13 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| 2024/09642 | INTELLIGENT PATROL INSPECTION METHOD AND SYSTEM FOR ISOLATING SWITCH, AND DEVICE | 2024/12/13 |
| 2024/09643 | CIRCUMCISION DEVICE | 2024/12/13 |
| 2024/09644 | DYNAMIC VOLTAGE TEST CIRCUIT AND METHOD FOR HIGH-VOLTAGE ALTERNATING-CURRENT CIRCUIT-BREAKER FOR FILTER BANKS | 2024/12/13 |
| 2024/09645 | PROPERTY DATA PROCESSING | 2024/12/13 |
| 2024/09695 | METHOD OF DISTINGUISHING THE AUTHENTIC MEDICINAL MATERIAL TAN CYPERI RHIZOMA FROM OTHER MAIN ORIGINS AND NON-MAIN ORIGINS CYPERI RHIZOMA | 2024/12/17 |
| 2024/09735 | PROCESS AND DESIGN MODIFICATIONS TO RETROFIT A CONVENTIONAL WOOD PLANT | 2024/12/17 |
| 2024/09740 | METHOD AND SYSTEM FOR DETERMINING HYDRAULIC FRACTURING ROOF-CUTTING PRESSURE RELIEF TIME OF DYNAMIC PRESSURE TUNNEL | 2024/12/17 |
| 2024/09770 | APPLICATION OF STREPTOMYCES MURINUS JKTJ-3 IN STRAWBERRY SEEDLING CULTIVATION | 2024/12/18 |
| 2024/09797 | ANTI-CD40 ANTIBODY, ANTI-PD-L1×CD40 BISPECIFIC ANTIBODY, AND USE THEREOF | 2024/12/18 |
| 2024/09856 | DRAINAGE DEVICE FOR CRITICAL CARE MEDICINE | 2024/12/19 |
| 2024/09874 | ANNEALING MODULE OF A DEVICE FOR PRODUCING STRETCHED THERMOPLASTIC TAPES | 2024/12/19 |
| 2024/09900 | MINE GLASSES WITH SELF-CLEANING FUNCTION | 2024/12/20 |
| 2024/09908 | SWIMMING POOL CLEANER | 2024/12/20 |
| 2024/09924 | DEMAND VALVE FOR AN OXY-FUEL WELDING AND CUTTING SYSTEM | 2024/12/20 |
| 2024/09926 | A COVER FOR A VALVE | 2024/12/20 |
| 2024/09962 | A CRYPTOGRAPHY BASED INTELLIGENT SYSTEM AND METHOD FOR SECURE DATA TRANSACTION | 2024/12/23 |
| 2024/09989 | RIGID OVERHEAD-CONTACT-SYSTEM ANCHOR SEGMENT BASED ON THE TRIGGER DISCONNECTION OF CIVIL DEFENSE DOOR | 2024/12/23 |
| 2025/00024 | A NOVEL PREFABRICATED COLUMN-BEAM JOINT STRUCTURE | 2025/01/02 |
| 2025/00032 | A SYNERGISTIC TREATMENT METHOD FOR ALUMINUM DROSS | 2025/01/02 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | AND FLY ASH | |
| 2025/00051 | AN ENVIRONMENTAL MONITORING ECOLOGICAL SAFETY EARLY WARNING DEVICE | 2025/01/02 |
| 2025/00055 | A SPORTS PHYSICAL FITNESS TRAINING DEVICE | 2025/01/02 |
| 2025/00101 | BENDING METHOD FOR SEALED-FILLER-TYPE SPACER BAR FOR INSULATING GLASS UNIT | 2025/01/02 |
| 2025/00127 | IMAGE ENHANCEMENT METHOD BASED ON GAUSSIAN BLUR PROCESSING | 2025/01/03 |
| 2025/00128 | CLAMPING DISPLAY DEVICE FOR AUTOMOBILE MODULE TEACHING | 2025/01/03 |
| 2025/00130 | PIPE HOLE DRILLING APPARATUS FOR MECHANICAL PROCESSING | 2025/01/03 |
| 2025/00131 | FINGERPRINT KEY ACQUISITION SYSTEM BASED ON GRAYSCALE COVARIANCE MATRIX | 2025/01/03 |
| 2025/00132 | METHODS FOR IMPROVING THE SALINE-ALKALI SOIL OF LYDUM CHINENSE MIL1 ECOLOGICAL FOREST | 2025/01/03 |
| 2025/00133 | A POLYURETHANE COATING MATERIAL AND COATED FERTILIZER | 2025/01/03 |
| 2025/00134 | TRANSLATION METHOD AND SYSTEM OF ENGLISH PROFESSIONAL TERMS BASED ON KNOWLEDGE GRAPH | 2025/01/03 |
| 2025/00135 | PROBIOTICS OF PIG CONSISTING OF LACTOBACILLUS PARACASEI, LACTOBACILLUS HARBINENSIS, LACTOBACILLUS BUCHNERI AND PICHIA DESERTICOLAICOLA | 2025/01/03 |
| 2025/00136 | INTELLIGENT, EFFICIENT, GREEN AND LOW-CARBON SLUDGE DISCHARGING AND CLEANING DEVICE FOR SEDIMENTATION TANK | 2025/01/03 |
| 2025/00137 | COMPUTERIZED NUMERICAL CONTROL MACHINE TOOL TRAINING OPERATION PLATFORM | 2025/01/03 |
| 2025/00163 | METHOD FOR QUANTIFICATION OF FREE POLYSACCHARIDE AND TOTAL POLYSACCHARIDE IN VACCINE COMPOSITIONS | 2025/01/06 |
| 2025/00167 | TEACHING METHOD AND SYSTEM OF COURT DRILL BASED ON VIRTUAL REALITY | 2025/01/06 |
| 2025/00169 | MEAL REPLACEMENT FOOD BASED ON THE BIDIRECTIONAL | 2025/01/06 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | FERMENTATION OF OUDEMANSIELLA RAPHANIPIES AND PEANUTS | |
| 2025/00170 | GLOEOSTEREUM INCARNATUM VEGETARIAN TRIPE RICH IN ULMUS PUMILA POLYSACCHARIDE | 2025/01/06 |
| 2025/00172 | COAL GANGUE ASPHALT MIXTURE AND PREPARATION METHOD THEREOF | 2025/01/06 |
| 2025/00173 | A SAMPLE PREPARATION METHOD FOR INFRARED SPECTRUM ANALYSIS OF ASPHALT-BASED MATERIALS | 2025/01/06 |
| 2025/00174 | A OPEN GRADING DRAINAGE WEARING LAYER ADDING BASALT FIBER | 2025/01/06 |
| 2025/00175 | A METHOD AND A SYSTEM FOR DIGITAL DISPLAY OF TRADITIONAL VILLAGE RESIDENTIAL LANDSCAPE | 2025/01/06 |
| 2025/00177 | REAL ESTATE LEGAL TRAINING SYSTEM | 2025/01/06 |
| 2025/00178 | A NOVEL PREFABRICATED CONCRETE COLUMN-BEAM JOINT CONNECTION STRUCTURE | 2025/01/06 |
| 2025/00179 | CONSTRUCTING METHOD OF TRNA EMPIRICAL EVOLUTION MODEL | 2025/01/06 |
| 2025/00214 | DEVICE FOR PREVENTING AND CONTROLLING UNDERGROUND ROADWAY FLOOR HEAVE IN COAL MINE | 2025/01/07 |
| 2025/00216 | A DEVICE FOR CLEANING AND OILING THE SURFACE RUST OF RAILS | 2025/01/07 |
| 2025/00217 | A LIFTABLE PROJECTION DEVICE FOR ONLINE TEACHING | 2025/01/07 |
| 2025/00218 | MOBILE MULTI-POINT RECEIVING EQUIPMENT | 2025/01/07 |
| 2025/00219 | SIMULATION AND PREDICTION METHOD FOR REGIONAL NORMALIZED DIFFERENCE VEGETATION INDEX PATTERN OF REED BASED ON DUAL-DRIVE ANALYSIS | 2025/01/07 |
| 2025/00220 | A LONG-TERM SEQUENCE CROP DYNAMIC MAPPING METHOD BASED ON SYNERGISTIC ACTIVE-PASSIVE REMOTE SENSING | 2025/01/07 |
| 2025/00221 | SPORTS BALL TRAINER | 2025/01/07 |
| 2025/00222 | CAPILLARY REFRIGERATION AIR CONDITIONING SYSTEM FOR SHALLOW WATER WELLS | 2025/01/07 |
| 2025/00229 | SMART CLOTHING WITH | 2025/01/07 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | INTEGRATED PREDICTIVE ANALYTICS FOR ATHLETE HEALTH MONITORING AND INJURY PREVENTION | |
| 2025/00238 | REDUCING SCINTILLATION NOISE IN FREE SPACE OPTICAL COMMUNICATIONS | 2025/01/07 |
| 2025/00252 | USE OF SULFOXAMYL, PREPARATION METHOD THEREFOR, AND OXIDATION SYSTEM | 2025/01/07 |
| 2025/00253 | A QUENCHING AGENT CLEANING SYSTEM | 2025/01/07 |
| 2025/00267 | C6'-SUBSTITUTED LOCKED NUCLEIC ACID-MODIFIED CAP ANALOG AND USE THEREOF | 2025/01/08 |
| 2025/00278 | SNP MOLECULAR MARKERS ASSOCIATED WITH INTRAMUSCULAR FAT TRAITS IN PIGS, AS WELL AS THEIR APPLICATIONS AND DETECTION METHODS | 2025/01/08 |
| 2025/00303 | AN ISOLATION AND CULTURE METHOD AND APPLICATION FOR PORCINE ENDOMETRIAL MESENCHYMAL STEM CELLS | 2025/01/09 |
| 2025/00304 | A STANDARDIZED DEVICE FOR ANIMAL SKIN BURN MODELING | 2025/01/09 |
| 2025/00305 | A NEW APPLICATION FOR PIR-HSA-164586 AND MYH9 | 2025/01/09 |
| 2025/00306 | CULTURE METHOD AND APPLICATION FOR PORCINE LIMBAL EPITHELIAL STEM CELLS | 2025/01/09 |
| 2025/00309 | ANALYSIS METHOD OF SPATIAL TRANSCRIPTOME-BASED 4D-PRINTED STEM CELL SCAFFOLD FOR IMPROVING DIABETIC SKIN INJURY | 2025/01/09 |
| 2025/00310 | UNLOADING DEVICE WITH SYNCHRONOUS CONTROL OF NON-STOP BACKFILLING AND WORKING FACE PROPULSION AND METHOD | 2025/01/09 |
| 2025/00314 | EARLY WARNING SYSTEM AND METHOD FOR MONITORING MINE GEOLOGICAL DISASTERS | 2025/01/09 |
| 2025/00315 | AEROBIC GRANULAR SLUDGE REACTOR FOR DOMESTIC SEWAGE PRETREATMENT WITH IMPURITIES | 2025/01/09 |
| 2025/00322 | EQUALIZATION-BASED IMAGE PROCESSING AND SPATIAL | 2025/01/09 |

| Application Number | Patent Title | Filing Date |
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| | CROSSTALK ATTENUATOR | |
| 2025/00328 | PEPTIDE EXHIBITING MUSCLE LOSS PREVENTION AND MUSCLE MASS PROMOTION ACTIVITIES, AND USE THEREOF | 2025/01/09 |
| 2025/00363 | WATER LEVEL ALARM DEVICE FOR EARLY WARNING OF COAL MINE WATER DISASTERS | 2025/01/10 |
| 2025/00364 | A COMPREHENSIVE UTILIZATION AND PURIFICATION METHOD OF BIOBASED SYNGAS CONTAINING FURAN | 2025/01/10 |
| 2025/00365 | INTELLIGENT ANTI-CLOGGING CONSTRUCTED WETLAND SYSTEM | 2025/01/10 |
| 2025/00367 | SYSTEM FOR MONITORING COAL MINE UNDERGROUND WATER QUALITY BASED ON THE INTERNET OF THINGS | 2025/01/10 |
| 2025/00378 | A COAL MINE RISK EARLY WARNING SYSTEM BASED ON BIG DATA ANALYSIS | 2025/01/10 |
| 2025/00379 | RESOURCE INFORMATION INTERACTIVE MANAGEMENT SYSTEM FOR DIFFERENTIATED AND COORDINATED DEVELOPMENT OF COUNTY ECONOMY | 2025/01/10 |
| 2025/00394 | TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING SWOLLEN LIVER DISEASE OF TRIONYX SINENSIS AND PREPARATION METHOD THEREOF | 2025/01/13 |
| 2025/00402 | RANGE HOOD FAN VOLUTE PROCESSING DEVICE | 2025/01/13 |
| 2025/00409 | FUEL CELL STACK ASSEMBLY WITH COMPRESSION MEANS | 2025/01/13 |
| 2025/00435 | ANTIBODY RESISTANT TO BOTRYTIS CINEREA ATP3 PROTEIN AND APPLICATION THEREOF | 2025/01/13 |
| 2025/00436 | TRUSS NESTED BELT CONVEYOR | 2025/01/14 |
| 2025/00437 | RECOMBINASE POLYMERASE AMPLIFICATION (RPA) KIT AND DETECTION METHOD FOR VISUALLY DETECTING MULTIPLE TRANSGENIC MARKERS | 2025/01/14 |
| 2025/00438 | COMPRESSIVE PERFORMANCE TESTING DEVICE FOR TEMPERED GLASS PRODUCTION | 2025/01/14 |
| 2025/00440 | A GRAPHENE-MODIFIED ADHESIVE, ITS PREPARATION METHOD, AND ITS APPLICATION | 2025/01/14 |
| 2025/00441 | INTERACTIVE CHINESE TEACHING | 2025/01/14 |

| Application Number | Patent Title | Filing Date |
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| | DEVICE AS A FOREIGN LANGUAGE | |
| 2025/00442 | OBSTACLE REMOVING DEVICE | 2025/01/14 |
| 2025/00443 | METHOD FOR DETERMINING COTTON PICKING PERIOD BASED ON REMOTE SENSING MONITORING | 2025/01/14 |
| 2025/00444 | A METHOD, DEVICE, ELECTRONIC DEVICE, AND STORAGE MEDIUM FOR FUNGAL RAMAN SPECTRAL RECOGNITION BASED ON CONVOLUTIONAL NEURAL NETWORK | 2025/01/14 |
| 2025/00445 | ELECTRIC FENCE SWITCH | 2025/01/14 |
| 2025/00446 | PROPOFOL TARGET CONTROLLED INFUSION PUMP FOR ANESTHESIA | 2025/01/14 |
| 2025/00455 | A RADIOLOGY IMAGING DIAGNOSTIC FILM READING DEVICE | 2025/01/14 |
| 2025/00480 | A METHOD FOR DYNAMICALLY REGULATING THE LINEARITY OF TEMPERATURE | 2025/01/15 |
| 2025/00481 | COMPUTERIZED TRAINING DEVICE FOR NETWORK PLANNING WITH EASY HEAT DISSIPATION | 2025/01/15 |
| 2025/00482 | ARTIFICIAL INTELLIGENCE INTEGRATED SYSTEM FOR GEOTECHNICAL SAMPLING LAYOUT | 2025/01/15 |
| 2025/00485 | METHOD AND DEVICE FOR ANNOTATING PAVEMENT STRUCTURE LAYER DISTRESSES UNDER THREE-DIMENSIONAL MULTI-VIEW IMAGING | 2025/01/15 |
| 2025/00486 | STRETCHER FOR PHYSICAL FITNESS | 2025/01/15 |
| 2025/00489 | METAL-CHELATED PHOSPHOLIPID COMPLEX, METAL-CHELATED PHOSPHOLIPID COMPLEX NANOPARTICLE AND DRUG-LIPID PARTICLE, AND PREPARATION METHODS AND USES THEREOF | 2025/01/15 |
| 2025/00491 | PROPELLOR SYSTEM WHICH IS SUITABLE FOR KINETIC INTERACTION WITH A FLUID THAT FLOWS UNIDIRECTIONALLY THROUGH A CHANNEL, AND A CHANNEL FOR A UNIDIRECTIONAL FLUID FLOW PROVIDED WITH SUCH A PROPELLOR SYSTEM | 2025/01/15 |
| 2025/00495 | PHARMACEUTICAL COMPOSITION OF ANTI-CD20 ANTIBODY AND USE THEREOF | 2025/01/15 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| 2025/00496 | DETECTION SYSTEM FOR AMINES IN FOOD PRODUCTS | 2025/01/15 |
| 2025/00497 | MACHINE LEARNING SYSTEM | 2025/01/15 |
| 2025/00501 | USE OF BENZISOSELENAZOLE COMPOUND IN PREPARATION OF DRUG FOR TREATMENT OF SPINAGLIOMA | 2025/01/15 |
| 2025/00502 | METHOD FOR ACTUATING ACTIVE MATRIX DISPLAYS, CORRESPONDING CONTROLLER, AND COMPUTER PROGRAM PRODUCT | 2025/01/15 |
| 2025/00516 | PROCESS FOR PRODUCING AMMONIA | 2025/01/15 |
| 2025/00519 | AN ELECTROPLATING DEVICE DESIGNED FOR THE PREPARATION OF RECHARGEABLE ZINC BATTERY ANODE METAL MATERIALS | 2025/01/16 |
| 2025/00520 | METHOD AND SYSTEM OF CRIME TYPE TREND ANALYSIS BASED ON BIG DATA | 2025/01/16 |
| 2025/00521 | METHOD FOR PREPARING LOW-GOLD-SILVER CATHODE COPPER BY CONTINUOUS ELECTROLYTIC REFINING OF HIGH-GOLD-SILVER COPPER PLATE | 2025/01/16 |
| 2025/00523 | LED LAMP BEAD PACKAGING DEVICE | 2025/01/16 |
| 2025/00524 | METHOD FOR SURFACE MODIFICATION OF PURE TITANIUM OR TITANIUM ALLOY MEDICAL IMPLANT MATERIAL | 2025/01/16 |
| 2025/00526 | AUTONOMOUS VEHICLE PATH GENERATION SYSTEM BASED ON MULTI-OBJECTIVE CONSTRAINTS | 2025/01/16 |
| 2025/00527 | A MINING SAFETY PROTECTION DEVICE FOR NON-COAL MINE | 2025/01/16 |
| 2025/00528 | A THREE-DIMENSIONAL INVERSION METHOD FOR GRAVITY AND ITS GRADIENT TENSOR DATA IN FREQUENCY DOMAIN | 2025/01/16 |
| 2025/00529 | HYGIENICS MEASURING EXTENSION RULE FOR MEASURING STANDARD MODELS OF DESKS AND CHAIRS FOR PRIMARY AND SECONDARY SCHOOLS | 2025/01/16 |
| 2025/00530 | A SUN-CURED YELLOW TOBACCO MODULATING, FOLDING AND DRYING DEVICE | 2025/01/16 |
| 2025/00531 | A COMPOSITE DUST | 2025/01/16 |

| Application Number | Patent Title | Filing Date |
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| | SUPPRESSANT AND ITS APPLICATION | |
| 2025/00532 | PLANT DYE AND PREPARATION METHOD THEREOF | 2025/01/16 |
| 2025/00534 | FEED ADDITIVE OF ARTEMISIA DESERTORUM SPRENG POLYSACCHARIDE FOR PREGNANT FEMALE LIVESTOCK AND PREPARATION METHOD THEREOF | 2025/01/16 |
| 2025/00535 | CAPACITIVE DESALTING DEVICE CONVENIENT TO DISASSEMBLE | 2025/01/16 |
| 2025/00536 | MULTI-DIMENSIONAL DATA ANALYSIS AND VISUALIZATION SYSTEM BASED ON CLUSTERING ALGORITHMS | 2025/01/16 |
| 2025/00537 | INTELLIGENT ROUTE ALLOCATION SYSTEM FOR REAL-TIME TRAFFIC FLOW OPTIMIZATION | 2025/01/16 |
| 2025/00538 | CAPACITIVE DEIONIZATION DESALINATION TREATMENT DEVICE FOR WATER TREATMENT | 2025/01/16 |
| 2025/00539 | APPLICATION FOR PORCINE UMBILICAL CORD BLOOD EXOSOME IN PREPARATION OF BIOLOGIC FOR REPAIRING SKIN INJURY | 2025/01/16 |
| 2025/00540 | DISCRETE FRACTURE MODEL BASED ON POROUS MEDIUM PORE NETWORK MODEL AND ADDING METHOD THEREOF | 2025/01/16 |
| 2025/00544 | A STRIPPING DEVICE FOR THYROID SURGERY | 2025/01/16 |
| 2025/00545 | A MULTI-FACETTED SHIFT FINGER AND A GEAR SHIFT ASSEMBLY FOR A VEHICLE | 2025/01/16 |
| 2025/00546 | METHOD FOR IMPROVING SYNTHESIS EFFICIENCY OF NANO-SELENIUM MICROORGANISMS | 2025/01/16 |
| 2025/00547 | JUGGLING AUXILIARY DEVICE FOR FOOTBALL TRAINING | 2025/01/16 |
| 2025/00548 | ARRANGEMENT DEVICE FOR FINANCIAL VOUCHERS | 2025/01/16 |
| 2025/00549 | FERTILIZER INJECTION DEVICE IN CULTIVATION OF SUGARCANE VIRUS-FREE ORIGINAL SEEDLING | 2025/01/16 |
| 2025/00550 | CABLE CLAMPING DEVICE FOR ELECTRONIC INFORMATION COMMUNICATION | 2025/01/16 |
| 2025/00551 | BIG DATA ANALYSIS INFORMATION PROCESSING DEVICE WITH HIGH SECURITY | 2025/01/16 |

| Application Number | Patent Title | Filing Date |
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| 2025/00552 | WIND TURBINE POWER PREDICTION DEVICE | 2025/01/16 |
| 2025/00553 | THREE-DIMENSIONAL VISUALIZATION IMAGING DEVICE FOR BUBBLE AND THREE-DIMENSIONAL RECONSTRUCTION METHOD FOR BUBBLE BASED ON OPTICAL PATH OBSERVATION | 2025/01/16 |
| 2025/00554 | HEALTH DATA MANAGEMENT METHOD AND SYSTEM BASED ON SILICON AND DIAMOND THREE-DIMENSIONAL INTEGRATED CHIP | 2025/01/16 |
| 2025/00558 | REPAIR AGENT AND REPAIR METHOD FOR GRAPHITE CRUCIBLE | 2025/01/16 |
| 2025/00560 | ROOM STABLE HYDROXYUREA ORAL SUSPENSION | 2025/01/16 |
| 2025/00575 | ARTEMISIA SPHAEROCEPHALA KRASCH. POLYSACCHARIDE FEED ADDITIVE FOR IMPROVING SHEEP IMMUNITY AND PREPARATION METHOD THEREOF | 2025/01/16 |
| 2025/00576 | TRANSVALVULAR BLOOD PUMP | 2025/01/17 |
| 2025/00577 | PRIMER SETS FOR DETECTING VIRULENCE GENES OF CLOSTRIDIUM PERFRINGENS BASED ON DOUBLE LOOP-MEDIATED ISOTHERMAL AMPLIFICATION, AND KIT AND DETECTION METHOD THEREOF | 2025/01/17 |
| 2025/00578 | METHOD FOR INDUCING MULTIPLE TYPES OF SOMATIC CELLS TO UNDERGO FATE TRANSITION AND DIRECTLY DEVELOP INTO SOMATIC EMBRYOS AND APPLICATION | 2025/01/17 |
| 2025/00579 | HIGH-EFFICIENCY MOVABLE INSECT-REPELLENT DEVICE FOR PLANTS | 2025/01/17 |
| 2025/00580 | METHOD FOR INSTALLING A PREFABRICATED SUBWAY STATION | 2025/01/17 |
| 2025/00581 | DEEP FOUNDATION PIT SUPPORT STRUCTURE | 2025/01/17 |
| 2025/00582 | SELF-POWERED MULTIFUNCTIONAL PIEZOELECTRIC INTELLIGENT AGGREGATE,AND MANUFACTURING METHOD AND APPLICATION THEREOF | 2025/01/17 |
| 2025/00583 | PEDESTRIAN RECOGNITION METHOD FOR ROAD SCENES | 2025/01/17 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | BASED ON ATTENTION MECHANISM | |
| 2025/00584 | SYSTEM AND METHOD FOR MONITORING CONSTRUCTION NEAR EXISTING RAILWAYS | 2025/01/17 |
| 2025/00585 | GATE CUTTING DEVICE FOR PLASTIC PRODUCTS | 2025/01/17 |
| 2025/00586 | A REEVALUATION METHOD OF LOW GRADE AND SALT LAKE TYPE POTASSIUM SALT MINERALS CO-ASSOCIATED RESOURCES | 2025/01/17 |
| 2025/00587 | MINE WATER STORAGE SPRAYING DEVICE FOR ECOLOGICAL RESTORATION | 2025/01/17 |
| 2025/00588 | A VENTILATION DEVICE FOR SAFETY IN NON-COAL MINES | 2025/01/17 |
| 2025/00589 | A TITANIUM ALLOY STEEL PROCESSING TECHNOLOGY | 2025/01/17 |
| 2025/00597 | MEASUREMENT METHOD, TERMINAL, NETWORK DEVICE, AND STORAGE MEDIUM | 2025/01/17 |
| 2025/00601 | METHOD FOR PREPARING HIGH THERMAL CONDUCTIVITY GRAPHITE FILM MATERIAL BY USING RECYCLED MATERIALS | 2025/01/17 |
| 2025/00623 | METHOD FOR REMEDIATING SOIL CONTAMINATED WITH POLYCHLORINATED BIPHENYLS | 2025/01/20 |
| 2025/00624 | BREWING PROCESS FOR GAMMA-AMINOBUTYRIC ACID-RICH BEER | 2025/01/20 |
| 2025/00625 | MULTIFUNCTIONAL COMBINED PIPELINE CLEANING TOOL | 2025/01/20 |
| 2025/00626 | A SCARECROW | 2025/01/20 |
| 2025/00628 | MED17 GENE RELATED TO INTRAMUSCULAR FAT CONTENT IN PIGS AND ITS APPLICATIONS | 2025/01/20 |
| 2025/00629 | TRADITIONAL CHINESE MEDICINE COMPOSITION AND PREPARATION METHOD THEREOF | 2025/01/20 |
| 2025/00630 | A CROSS-GRADIENT JOINT INVERSION METHOD FOR GRAVITY AND MAGNETISM AND THEIR GRADIENT TENSOR DATA IN FREQUENCY DOMAIN | 2025/01/20 |
| 2025/00631 | A NANOBODY SPECIFICALLY BINDING TO THE PROPROTEIN CONVERTASE SUBTILISINKEXIN TYPE 9 AND ITS APPLICATIONS | 2025/01/20 |
| 2025/00632 | A DYNAMIC VIDEO GENERATION METHOD AND SYSTEM BASED ON DIFFUSION MODEL | 2025/01/20 |
| 2025/00637 | X-RAY SCANNING CONTROL | 2025/01/20 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | SYSTEM | |
| 2025/00638 | CIRCUIT FOR CONTROLLING X-RAY EXPOSURE WITH MONOPOLAR OR BIPOLAR POWER SUPPLY BY MEANS OF A GRID CURRENT | 2025/01/20 |
| 2025/00654 | PROCESS FOR THE PURIFICATION OF MANGANESE SULFATE SOLUTIONS AND SUBSEQUENT CRYSTALLIZATION OF HIGH PURITY MANGANESE SULFATE MONOHYDRATE | 2025/01/20 |
| 2025/00655 | ENERGY STORAGE BATTERY CABINET AND ENERGY STORAGE SYSTEM HAVING SAME | 2025/01/20 |
| 2025/00670 | PROCESS FOR EXPLORING AND DISCHARGING GOB WATER BASED ON LONG-DISTANCE DIRECTIONAL ARC-SHAPED MULTI-ANGLE CROSSING DRILLING | 2025/01/21 |
| 2025/00671 | A GEAR THREAD REWINDING DEVICE WITH THREAD DEPTH DETECTION FUNCTION | 2025/01/21 |
| 2025/00672 | METHOD FOR OBTAINING STERILE EXPLANTS FROM STEM TIP FOR TISSUE CULTURE OF EELGRASS | 2025/01/21 |
| 2025/00673 | TRADITIONAL CHINESE MEDICINE COMPOUND PREPARATION FOR TREATING INTERSTITIAL LUNG DISEASES AND PREPARATION METHOD THEREOF | 2025/01/21 |
| 2025/00674 | DEVICE AND METHOD FOR SCREENING MICROORGANISMS CAPABLE OF SYNERGISTICALLY FIXING CARBON AND REDUCING POLLUTION | 2025/01/21 |
| 2025/00681 | A NETWORK-CONTROLLED REMOTE ALARM DEVICE | 2025/01/21 |
| 2025/00682 | A DRIVER FATIGUE MONITORING DEVICE FOR VEHICLES | 2025/01/21 |
| 2025/00683 | A YAK SPERM IN VITRO PRESERVATION DEVICE AND METHOD | 2025/01/21 |
| 2025/00684 | A FORAGE AND FEEDING METHOD FOR IMPROVING SEMEN QUALITY OF YAK | 2025/01/21 |
| 2025/00685 | A METHOD FOR MODULATING THE LINEARITY OF A TIN DIOXIDE GAS SENSOR BASED ON DYNAMIC TEMPERATURE | 2025/01/21 |
| 2025/00687 | GREEN FOOD CRUSHING DEVICE BASED ON FOOD SCIENCE AND ENGINEERING | 2025/01/21 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| 2025/00688 | FLUORITE BENEFICIATION PROCESS FOR HIGH-CALCIUM SCHEELITE TAILING | 2025/01/21 |
| 2025/00705 | COMPUTER EQUIPMENT MAINTENANCE APPARATUS | 2025/01/22 |
| 2025/00706 | CONNECTION LOCKING DEVICE FOR CONSTRUCTION FORMWORK | 2025/01/22 |
| 2025/00707 | INTEGRATED OPERATING SYSTEM FOR CIVIL ENGINEERING MANAGEMENT | 2025/01/22 |
| 2025/00708 | EASILY ASSEMBLED AND DISASSEMBLED COMPUTER CASE | 2025/01/22 |
| 2025/00709 | ANGLE-ADJUSTABLE HEAT DISSIPATION FAN BRACKET | 2025/01/22 |
| 2025/00710 | MULTI-LEVEL MONITORING ROTARY DECANTER CONTROL SYSTEM AND METHOD, AND DEVICE | 2025/01/22 |
| 2025/00711 | USE OF SRSF1 IN PREPARATION OF MEDICAMENT FOR PROPHYLAXIS AND/OR TREATMENT OF HEART FAILURE WITH PRESERVED EJECTION FRACTION | 2025/01/22 |
| 2025/00712 | MODIFIED RUBBER PARTICLE AND HIGH-PERFORMANCE RUBBER CONCRETE PREPARED BY MODIFIED RUBBER PARTICLE | 2025/01/22 |
| 2025/00713 | AN INTERVAL TYPE-2 FUZZY NEURAL NETWORK SOFT-SENSING SYSTEM BASED ON MULTI-STRATEGY AND ADAPTIVE DIFFERENTIAL EVOLUTION ALGORITHM OPTIMIZATION | 2025/01/22 |
| 2025/00714 | ROAD PAVEMENT POTHOLE MAINTENANCE DEVICE AND CONSTRUCTION METHOD THEREOF | 2025/01/22 |
| 2025/00715 | PIEZOELECTRIC CATALYTIC PERSULFATE ACTIVATION UTILIZING BI2WO6 FOR ENHANCED DEGRADATION OF ORGANIC POLLUTANTS | 2025/01/22 |
| 2025/00716 | INTELLIGENT SLEEP MONITORING SYSTEM FOR INSOMNIA TREATMENT | 2025/01/22 |
| 2025/00717 | METHOD AND SYSTEM FOR SCORING VOLLEYBALL EXAM | 2025/01/22 |
| 2025/00718 | UNIVERSAL MOUNTING APPARATUS FOR SERVER | 2025/01/22 |
| 2025/00719 | TRAFFIC ENGINEERING ANTI-COLLISION DEVICE | 2025/01/22 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| 2025/00720 | ANTI-THEFT ALARM | 2025/01/22 |
| 2025/00721 | ENGLISH-CHINESE TRANSLATOR FOR ENGLISH MAJORS | 2025/01/22 |
| 2025/00723 | TOWER CLIMBING DEVICE | 2025/01/22 |
| 2025/00724 | MICROORGANISM PROPAGATION DEVICE FOR SIMULATING HIGH-COLD AND HIGH-ALTITUDE ENVIRONMENT | 2025/01/22 |
| 2025/00729 | A METHOD FOR PREPARING A WILDLIFE REPELLENT GAS COMPOSITION | 2025/01/22 |
| 2025/00730 | METHOD FOR PREPARING MANGANESE-SILICON ALLOY AND ENRICHING LITHIUM FROM LITHIUM OREA | 2025/01/22 |
| 2025/00731 | SPOKEN ENGLISH TRANSLATION METHOD, DEVICE, AND STORAGE MEDIUM BASED ON CROSS-MODAL INTERACTION | 2025/01/22 |
| 2025/00732 | SESSION RECOMMENDATION METHOD AND SYSTEM BASED ON A CLOUD PLATFORM | 2025/01/22 |
| 2025/00734 | FUSED RING COMPOUND WITH SULFUR-CONTAINING SUBSTITUENT, PREPARATION METHOD, INSECTICIDE COMPOSITION, AND USE | 2025/01/22 |
| 2025/00735 | ELECTRIC FLYING LIFEBUOY | 2025/01/22 |
| 2025/00736 | WATER-AIR AMPHIBIOUS LIFESAVING STRETCHER AND CONTROL MODULE | 2025/01/22 |
| 2025/00741 | A BATTERY ENERGY STORAGE SYSTEM | 2025/01/22 |
| 2025/00758 | DATA ANALYSIS METHOD, DEVICE THEREOF AND SYSTEM THEREOF | 2025/01/22 |
| 2025/00767 | A METHOD FOR CONSTRUCTING A FINGERPRINT OF GUALOU NIUBANGTANG | 2025/01/23 |
| 2025/00768 | MEASURING DEVICE AND MEASURING METHOD FOR TACTILE VISUAL COMPREHENSIVE STYLE OF TEXTILE MATERIALS | 2025/01/23 |
| 2025/00769 | MODIFIED GRAPHENE OXIDE WATERBORNE POLYURETHANE ANTICORROSIVE COATING AND PREPARATION METHOD THEREOF | 2025/01/23 |
| 2025/00770 | ENVIRONMENTAL GOVERNANCE SAMPLING DEVICE | 2025/01/23 |
| 2025/00771 | A GRINDING DEVICE FOR PROCESSING METAL STAMPING | 2025/01/23 |
| 2025/00772 | NON-CONTACT INDUCTIVE SWITCH | 2025/01/23 |
| 2025/00773 | STRANDED WIRE BASED ON | 2025/01/23 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | ALUMINUM-CLAD INVAR STEEL CORE AND THERMORESISTANT ALUMINUM ALLOY SHAPED WIRE AND METHOD FOR FABRICATING THE SAME | |
| 2025/00775 | PROSPECTING METHOD FOR CHROMIUM ORE | 2025/01/23 |
| 2025/00776 | DEVICE FOR COMPRESSION-SHEAR COMBINED LOADING TEST AND TESTING METHOD THEREOF | 2025/01/23 |
| 2025/00777 | RADIATION CONVECTION RADIATOR | 2025/01/23 |
| 2025/00778 | ADSORBENT FOR REMOVING NAPHTHOL GREEN B | 2025/01/23 |
| 2025/00779 | EFFICIENT DEGRADATION OF RHODAMINE B BY COUPLING EFFECT OF PIEZO-PHOTOCATALYSIS OF BIOCL/TIO2 | 2025/01/23 |
| 2025/00783 | A SAFETY FIRE PREVENTION DEVICE FOR MINES | 2025/01/23 |
| 2025/00784 | A CONSTRUCTION SAFETY BASKET WITH A PROTECTIVE STRUCTURE | 2025/01/23 |
| 2025/00785 | A SAFETY PROTECTION DEVICE FOR URBAN UNDERGROUND SPACE CONSTRUCTION | 2025/01/23 |
| 2025/00786 | AN ULTRAVIOLET-BASED PACIFIER STERILIZATION DEVICE AND A METHOD FOR THE SAME | 2025/01/23 |
| 2025/00787 | A GAS BURNER WITH MULTIPLE ADJUSTMENT PARAMETERS | 2025/01/23 |
| 2025/00788 | A SUSTAINABLE POTTERY KILN SYSTEM FOR POTTERY FIRING | 2025/01/23 |
| 2025/00789 | TRUCK IGNITION STARTING APPARATUS | 2025/01/23 |
| 2025/00790 | A WATER INFUSED WHITEBOARD DUSTING DEVICE AND A METHOD FOR OPERATING THE SAME | 2025/01/23 |
| 2025/00791 | A SYSTEM AND METHOD FOR CLOSED-LOOP ARACHNOPHOBIA MANAGEMENT IN VIRTUAL REALITY ENVIRONMENT | 2025/01/23 |
| 2025/00792 | VERTICAL GAS-FIRED VACUUM BOILER | 2025/01/23 |
| 2025/00797 | APPLICATION OF NAT10 IN THE DIRECTION OF POOR PROGNOSIS MARKER AND DRUG FOR TREATING CERVICAL CANCER | 2025/01/23 |
| 2025/00812 | ADMINISTRATION CONTROL METHOD AND APPARATUS FOR SKIN ADMINISTRATION | 2025/01/23 |
| 2025/00817 | A NECK MUSCLE TRAINER | 2025/01/24 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| 2025/00818 | PORTABLE AND SIMPLE SPINAL FIXATION DEVICE | 2025/01/24 |
| 2025/00819 | DEVICE FOR HYDROGEN PRODUCTION BY CO-GASIFYING OF SLUDGE AND BIOMASS | 2025/01/24 |
| 2025/00821 | AN ISOTHERMAL AMPLIFICATION DETECTION METHOD FOR RAPID DETECTION OF FOWLPOX VIRUS BASED ON A FLUORESCENT PROBE | 2025/01/24 |
| 2025/00822 | PROSPECTING METHOD FOR GOLD ORE | 2025/01/24 |
| 2025/00823 | ALPACA-DERIVED NANOBODY AND APPLICATION THEREOF | 2025/01/24 |
| 2025/00824 | INTELLIGENT FINANCIAL ROBOT BASED ON BIG DATA | 2025/01/24 |
| 2025/00825 | SYSTEM FOR MUNICIPAL ROAD DRAINAGE | 2025/01/24 |
| 2025/00827 | MONOCLONAL ANTIBODY AGAINST CHICKEN TIPE1 GENE AND PREPARATION METHOD AND APPLICATION THEREOF | 2025/01/24 |
| 2025/00828 | PROSPECTING METHOD FOR COBALT AND NICKEL | 2025/01/24 |
| 2025/00837 | AN ELECTRONIC CONTAINER, SYSTEM AND METHOD FOR SHARING INFORMATION OVER AN INSECURE CHANNEL | 2025/01/24 |
| 2025/00838 | A PREPARATION METHOD OF ANTHOCYANIN LIPOSOME AND ITS APPLICATION IN COSMETICS | 2025/01/24 |
| 2025/00839 | A PREPARATION METHOD OF BUDDHA'S HAND WITH COUGH-RELIEVING AND ASTHMA-RELIEVING FUNCTIONS AND ITS APPLICATION | 2025/01/24 |
| 2025/00840 | RISK MANAGEMENT AND ASSESSMENT SYSTEM FOR DIGITAL ECONOMY | 2025/01/24 |
| 2025/00841 | ASSEMBLE INDOOR WALL FINISHING PANEL | 2025/01/24 |
| 2025/00842 | MULTI-MOVING-TARGET CAPTURE AND TRACKING DEVICE | 2025/01/24 |
| 2025/00843 | DATA INTERACTION NETWORK SECURITY SYSTEM BASED ON ARTIFICIAL INTELLIGENCE | 2025/01/24 |
| 2025/00844 | PERSONNEL IDENTIFICATION DEVICE FOR HIGHER EDUCATION MANAGEMENT | 2025/01/24 |
| 2025/00845 | STORAGE DEVICE FOR SPECIMEN COLLECTION | 2025/01/24 |
| 2025/00846 | FUSED REFRACTORY MATERIAL | 2025/01/24 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | FOR IRON AND STEEL SMELTING, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF | |
| 2025/00847 | BACILLUS VELEZENSIS AND APPLICATION THEREOF IN GRAPE BIOLOGICAL CONTROL AND BACTERIAL FERTILIZER | 2025/01/24 |
| 2025/00848 | MODULAR BUILDING AND INTEGRATED METHOD OF PREFABRICATED DECORATION | 2025/01/24 |
| 2025/00849 | NATURAL MEDICINE EXTRACT SEPARATION AND EXTRACTION DEVICE | 2025/01/24 |
| 2025/00850 | ASSEMBLE TYPE WALLBOARD SUPPORTING DEVICE FOR WALL DECORATION | 2025/01/24 |
| 2025/00877 | ELIMINATION DEVICE FOR WATER HAMMER EFFECT OF ENERGY-CONSUMING SUBMARINE FLOW CONVEYING PIPELINE | 2025/01/24 |
| 2025/00886 | BASKETBALL PASSING TRAINER | 2025/01/27 |
| 2025/00887 | ADJUSTABLE HAND GRIP EXERCISER | 2025/01/27 |
| 2025/00890 | MEAT STERILIZATION | 2025/01/27 |
| 2025/00891 | BIOCHAR-INTEGRATED TREATMENT SYSTEM FOR ENHANCED REMOVAL OF MICROPOLLUTANTS | 2025/01/27 |
| 2025/00893 | ALTERNATING POSITIVE AND NEGATIVE PRESSURE TYPE SELF-CLEANING INTEGRATED DUST REMOVAL DEVICE FOR MINING AND USE METHOD THEREOF | 2025/01/27 |
| 2025/00894 | DEEP LEARNING-BASED METHOD FOR DETECTING SKYLINE | 2025/01/27 |
| 2025/00898 | TUMOR SAMPLING DEVICE FOR MEDICAL ONCOLOGY | 2025/01/27 |
| 2025/00915 | VISION BASED SEMI AUTOMATIC BLOOD CROSS MATCH IDENTIFIER AND MICRO-ORGANISMS VIEW MAGNIFIER | 2025/01/27 |
| 2025/00916 | CONTINUOUS SUBGLOTTIC SECRET DRAINAGE DEVICE WITH ADJUSTABLE PRESSURE | 2025/01/27 |
| 2025/00932 | SYSTEM FOR WATERING PLANTS | 2025/01/28 |
| 2025/00955 | DISTRIBUTION BOARD WITH INTEGRATED BACKUP POWER | 2025/01/29 |
| 2025/00960 | AN INTELLIGENT SYSTEM AND METHOD FOR AUTOMATED FEATURE EXTRACTION AND SUMMARIZATION OF KEY | 2025/01/29 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | INFORMATION FROM DATA STREAMS | |
| 2025/01107 | MANUFACTURING PROCESS AND MANUFACTURING DEVICE FOR COMPOSITE RUBBER SANDWICH VIBRATION REDUCTION STRUCTURE | 2025/02/05 |
| 2025/01109 | SYSTEM AND METHOD FOR OPERATING A MINING MACHINE WITH RESPECT TO A GEOFENCE USING A DYNAMIC OPERATION ZONE | 2025/02/05 |
| 2025/01111 | APPARATUS FOR AUTONOMOUS FUNCTIONS IN AQUATIC ZONES | 2025/02/05 |
| 2025/01140 | COMPOSITE CATALYST FOR PREPARATION OF 1,3-BUTADIENE FROM ETHANOL, AND PREPARATION METHOD AND APPLICATION THEREOF | 2025/02/06 |
| 2025/01145 | FOREST GARDEN TYPE BUILDING STRUCTURE | 2025/02/06 |
| 2025/01157 | A WINDOW BLIND HEADRAIL | 2025/02/06 |
| 2025/01168 | MEDICAL DEVICE BOX FOR EFFICIENT ACCESS | 2025/02/06 |
| 2025/01179 | PREPARATION METHOD OF LYOPHILIZED PLATELET (LP) AND USE OF LP IN PREPARATION OF TRAUMATIC HEMOSTATIC PRODUCT | 2025/02/07 |
| 2025/01180 | MAGNETIC MOLECULARLY IMPRINTED PHOTONIC CRYSTAL SENSOR, PREPARATION METHOD AND APPLICATION THEREOF | 2025/02/07 |
| 2025/01181 | INTERMEDIATE PREPARATION APPARATUS | 2025/02/07 |
| 2025/01182 | MOUSE | 2025/02/07 |
| 2025/01183 | A METHOD SUITABLE FOR DEEP AREA AND EDGE AREA PROSPECTING OF PORPHYRY COPPER POLYMETALLIC DEPOSITS | 2025/02/07 |
| 2025/01184 | MACROBIOTIC SCALP PASTE | 2025/02/07 |
| 2025/01185 | WHEAT GRAIN MOXIBUSTION EXTRUSION FORMING DEVICE | 2025/02/07 |
| 2025/01186 | METHOD FOR RAPIDLY SCREENING WEIGHT-INCREASING DEGREE OF BIAN CHICKEN | 2025/02/07 |
| 2025/01187 | CISTANCHE DESERTICOLA FERMENTED YOGURT AND PREPARATION METHOD THEREFOR | 2025/02/07 |
| 2025/01189 | INFUSED OBJECT CONTAINER AND | 2025/02/07 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | INFUSING DEVICE | |
| 2025/01191 | AN ELECTRO-HYDRAULIC CENTRAL CONTROL SYSTEM FOR UNMANNED PLATFORMS | 2025/02/07 |
| 2025/01206 | INTEGRATED HIGH-TEMPERATURE OIL-SUBMERGED MOTOR | 2025/02/07 |
| 2025/01219 | GRASSLAND CARBON SINK SAMPLING DEVICE | 2025/02/10 |
| 2025/01229 | DEVELOPMENT OF AN ETHANOL SENSOR BASED ON VERTICALLY ALIGNED SNO2/TIO2 HETEROJUNCTION NANOWIRE USING GLAD TECHNIQUE | 2025/02/10 |
| 2025/01231 | OVERHEAD ELECTRICAL LINE PROTECTION SYSTEM | 2025/02/10 |
| 2025/01238 | PREPARATION METHOD OF PHOTOVOLTAIC COATING MATERIALS | 2025/02/10 |
| 2025/01239 | MENTAL REHABILITATION TRAINING DEVICE FOR AUTISTIC CHILDREN | 2025/02/10 |
| 2025/01407 | SYSTEM AND METHOD FOR SCANNING THE CONDITION OF A STEEL CORD CONVEYOR BELT OF A BELT CONVEYOR | 2025/02/14 |
| 2025/02152 | CRYSTALLINE FORMS OF A BRUTON'S TYROSINE KINASE INHIBITOR | 2025/03/11 |
| 2025/02962 | A TRIMERCAPTOTRIAZINE TRISODIUM SALT CORROSION INHIBITION FUNGICIDE AND A PREPARATION METHOD AND APPLICATION THEREOF | 2025/04/08 |
| 2025/03134 | INTELLIGENT QUANTITATIVE INJECTION DEVICE FOR NON-FERROUS METAL SMELTING | 2025/04/14 |
| 2025/04050 | DEVICE FOR PREVENTING PULP SPILLS OR LEAKS FROM THE INSIDE OF MILLS, WITH A SHOCK ABSORBER | 2025/05/13 |
| 2025/05037 | DURESS PASSWORD SYSTEM AND METHOD FOR A BANKING APPLICATION | 2025/06/13 |
| 2025/05042 | WIND TURBINE BLADE AND METHOD OF DESIGNING WIND TURBINE BLADE | 2025/06/13 |
| 2025/05201 | MULTI-ELEMENT DRONE FLOW MEASUREMENT METHOD AND SYSTEM | 2025/06/19 |
| 2025/05599 | PRODUCTION PROCESS, EQUIPMENT AND SYSTEM FOR FACTORY-MIXED WARM AND HOT | 2025/07/01 |

| Application Number | Patent Title | Filing Date |
|---|---|---|
| | RECYCLED ASPHALT MIXTURE | |
| 2025/06078 | HIGH-SPEED DISPERSING MACHINE FOR PRODUCING DEFOAMING AGENT | 2025/07/17 |
| 2025/06080 | SYSTEM AND METHOD FOR AIR CURTAIN ANTI-DRIFTING TESTING | 2025/07/17 |
| 2025/06094 | THREE-IN-ONE BONDING AND POSITIONING DEVICE FOR PHOTOVOLTAIC SILICON RODS | 2025/07/17 |
| 2025/06203 | TRADITIONAL CHINESE MEDICINE COMPOSITION FOR REDUCING BLOOD PRESSURE AND PREPARATION METHOD THEREFOR AND PHARMACEUTICAL USE THEREOF | 2025/07/22 |
| 2025/06268 | SYSTEM AND METHOD FOR MONITORING SOIL AND WATER CONSERVATION | 2025/07/24 |
| 2025/06299 | MELTING APPARATUS AND METHOD FOR ULTRA-HIGH PURITY METALLIC GLASS INGOT | 2025/07/25 |
| 2025/06315 | COMPOUND WITH ?-GLUCOSIDASE INHIBITORY ACTIVITY AND APPLICATION THEREOF | 2025/07/28 |
| 2025/06399 | ADAPTIVE REGULATING SYSTEM AND METHOD FOR AIR VOLUME OF AIR CURTAIN BOOM SPRAYER | 2025/07/30 |
| 2025/06507 | THREE-DIMENSIONAL FINITE ELEMENT STATIC AND DYNAMIC ANALYSIS REINFORCEMENT CALCULATION METHOD FOR A HYDROPOWER PLANT | 2025/08/01 |
| 2025/06508 | SEISMIC SAFETY EVALUATION METHOD | 2025/08/01 |
| 2025/06509 | METHOD FOR SCREENING AROMA-PRODUCING STREPTOCOCCUS SALIVARIUS THERMOPHILUS BASED ON DIACETYL REDUCTASE | 2025/08/01 |
| 2025/06572 | THREE-DIMENSIONAL GEOSTRESS NUMERICAL SIMULATION METHOD BASED ON DEEP-SHALLOW DYNAMIC BIDIRECTIONAL COUPLING | 2025/08/05 |
| 2025/06667 | COMPOSITION OF BIFIDOBACTERIUM ANIMALIS AND SEMEN RAPHANI FOR SYNERGISTIC PREVENTION AND TREATMENT OF FUNCTIONAL CONSTIPATION | 2025/08/08 |

## DESIGNS

### Advertisement List for August 2025

**Number of Advertised Designs: 164**

| Application Number | Design Articles | Filing Date |
|---|---|---|
| A2019/00501 | CONTAINERS | 2019/04/16 |
| A2019/00502 | CONTAINERS | 2019/04/16 |
| A2019/00503 | CONTAINER BLANKS | 2019/04/16 |
| A2019/00504 | CONTAINER BLANKS | 2019/04/16 |
| A2019/00853 | CONTAINERS | 2019/06/20 |
| A2019/01120 | BLENDERS | 2019/08/16 |
| A2019/01121 | BASES FOR BLENDERS | 2019/08/16 |
| A2019/01356 | ABSORBENT ARTICLES | 2019/09/18 |
| A2019/01357 | ABSORBENT ARTICLES | 2019/09/18 |
| A2019/01495 | RAZOR HANDLES | 2019/10/08 |
| A2019/01880 | TOOTHBRUSHES | 2019/12/23 |
| A2019/01881 | TOOTHBRUSHES | 2019/12/23 |
| A2020/00006 | TOOTHBRUSH HEADS | 2020/01/06 |
| A2020/00128 | ORNAMENTATION | 2020/02/04 |
| A2020/00129 | ORNAMENTATION | 2020/02/04 |
| A2020/00130 | ORNAMENTATION | 2020/02/04 |
| A2020/00131 | ORNAMENTATION | 2020/02/04 |
| A2020/00264 | SLEEK CAN HOLDERS | 2020/02/27 |
| A2020/00318 | BOTTLES | 2020/03/09 |
| A2020/00319 | BOTTLES | 2020/03/09 |
| A2020/00456 | MOTOR VEHICLES | 2020/05/04 |
| A2020/00457 | MOTOR VEHICLES | 2020/05/04 |
| A2020/00475 | MOBILE PHONES | 2020/05/04 |
| A2020/00571 | NOSE TRIMMERS | 2020/05/11 |
| A2020/00640 | UTENSILS | 2020/05/22 |
| A2020/00916 | PACKAGING | 2020/06/29 |
| A2020/01106 | BOTTLES | 2020/08/13 |
| A2020/01158 | MOTOR VEHICLES | 2020/08/27 |
| A2020/01159 | MOTOR VEHICLES | 2020/08/27 |
| A2020/01304 | GRAPHIC SYMBOLS | 2020/09/29 |
| A2020/01305 | FLASKS | 2020/09/29 |
| A2020/01343 | COMBS FOR GROOMING APPARATUS | 2020/10/08 |
| A2020/01348 | GROOMING APPARATUS | 2020/10/08 |
| A2020/01349 | GROOMING APPARATUS | 2020/10/08 |
| A2020/01350 | GROOMING APPARATUS | 2020/10/08 |
| A2020/01351 | GROOMING APPARATUS | 2020/10/08 |
| A2021/00148 | SENSORS | 2021/02/16 |
| A2021/00149 | SENSORS | 2021/02/16 |
| A2021/00150 | SENSORS | 2021/02/16 |
| A2021/00185 | DEFIBRILLATORS | 2021/02/26 |
| A2021/00228 | EXERCISE BICYCLES | 2021/03/05 |
| A2021/00273 | BOTTLES | 2021/03/18 |

| Application Number | Design Articles | Filing Date |
|---|---|---|
| A2021/00274 | BOTTLES | 2021/03/18 |
| A2021/00629 | COFFEE MAKERS | 2021/06/02 |
| A2021/00630 | COFFEE MAKERS | 2021/06/02 |
| A2021/00787 | SANDWICH MAKERS | 2021/07/06 |
| A2021/00877 | MOTOR VEHICLES | 2021/07/26 |
| A2021/00980 | FOOTWEAR | 2021/08/20 |
| A2021/00982 | FOOTWEAR | 2021/08/20 |
| A2021/01040 | CONTAINERS | 2021/09/07 |
| A2021/01177 | LABELS | 2021/09/29 |
| A2021/01276 | AUTOMOBILES | 2021/10/08 |
| A2021/01560 | MOTOR VEHICLES | 2021/12/23 |
| A2022/00017 | GEAR LEVERS | 2022/01/05 |
| A2022/00267 | GLASS PANELS | 2022/03/16 |
| A2022/00389 | MOTOR VEHICLES | 2022/04/11 |
| A2022/00653 | MEMORY CARDS | 2022/06/14 |
| A2022/00655 | MEMORY CARDS | 2022/06/14 |
| A2022/00656 | MEMORY CARDS | 2022/06/14 |
| A2022/00657 | MEMORY CARDS | 2022/06/14 |
| A2022/00658 | MEMORY CARDS | 2022/06/14 |
| A2022/00659 | MEMORY CARDS | 2022/06/14 |
| A2022/00660 | MEMORY CARDS | 2022/06/14 |
| A2022/01006 | MOTOR VEHICLES | 2022/08/26 |
| A2022/01126 | CASES FOR WATCHES | 2022/09/21 |
| A2022/01151 | MOTOR VEHICLES | 2022/09/28 |
| A2022/01509 | VEHICLES | 2022/11/22 |
| A2022/01510 | SCALE MODEL VEHICLES | 2022/11/22 |
| A2022/01696 | WATCH MECHANISMS | 2022/12/22 |
| A2022/01697 | COFFEE MACHINES | 2022/12/22 |
| A2023/00054 | CARS | 2023/01/11 |
| A2023/00766 | MOTOR VEHICLES | 2023/07/10 |
| A2023/00872 | ADJUSTABLE PIPE JOINTS | 2023/07/28 |
| A2023/00874 | FOOTWEAR | 2023/07/28 |
| A2023/01077 | HOUSINGS FOR PACKAGING MACHINES | 2023/10/04 |
| A2023/01078 | HOUSINGS FOR PACKAGING MACHINES | 2023/10/04 |
| A2023/01079 | HOUSINGS FOR PACKAGING MACHINES | 2023/10/04 |
| A2023/01080 | HOUSINGS FOR PACKAGING MACHINES AND PARTS THEREOF | 2023/10/04 |
| A2023/01101 | COFFEE GRINDERS | 2023/10/11 |
| A2023/01222 | CONTAINERS | 2023/11/14 |
| A2023/01411 | TYRES AND TYRE TREAD SIDEWALLS | 2023/12/12 |
| A2023/01438 | FOOTWEAR | 2023/12/18 |
| A2023/01439 | FOOTWEAR | 2023/12/18 |
| A2023/01440 | FOOTWEAR | 2023/12/18 |
| A2023/01441 | FOOTWEAR | 2023/12/19 |
| A2023/01459 | FOOTWEAR | 2023/12/20 |
| A2024/00559 | HAIR IRONS | 2024/06/13 |

| Application Number | Design Articles | Filing Date |
|---|---|---|
| A2024/00563 | MOTOR VEHICLES | 2024/06/13 |
| A2024/00564 | MOTOR VEHICLES | 2024/06/13 |
| A2024/00565 | HAIR IRONS | 2024/06/13 |
| A2024/00566 | HAIR IRONS | 2024/06/13 |
| A2024/00567 | HAIR IRONS | 2024/06/13 |
| A2024/01005 | FRAGRANCE PACKAGING | 2024/10/03 |
| A2024/01007 | PNEUMATIC TYRE | 2024/10/04 |
| A2024/01008 | PNEUMATIC TYRE | 2024/10/04 |
| A2024/01009 | PNEUMATIC TYRE | 2024/10/04 |
| A2024/01017 | Display Board | 2024/10/08 |
| A2024/01018 | LABORATORY TOOLS | 2024/10/08 |
| A2024/01152 | CONFECTIONERY ITEMS | 2024/11/12 |
| A2024/01154 | ROLL-ON CONTAINER | 2024/11/14 |
| A2024/01156 | Shoe Decorations | 2024/11/15 |
| A2024/01157 | AUTOMOBILES | 2024/11/15 |
| A2024/01162 | Wristwatch | 2024/11/18 |
| A2024/01163 | Wristwatch | 2024/11/18 |
| A2024/01164 | Wristwatch | 2024/11/18 |
| A2024/01166 | PRE-FILLED CUPS | 2024/11/18 |
| A2024/01170 | An Insert for a Run Flat Tyre | 2024/11/19 |
| A2024/01180 | Surface Patterns | 2024/11/21 |
| A2024/01181 | Articles of Clothing | 2024/11/21 |
| A2024/01188 | Carafe | 2024/11/22 |
| A2024/01189 | Carafe | 2024/11/22 |
| A2024/01190 | Carafe | 2024/11/22 |
| A2024/01191 | Carafe | 2024/11/22 |
| A2024/01192 | Travelling bags | 2024/11/22 |
| A2024/01193 | Sets of furniture | 2024/11/22 |
| A2024/01194 | PLANT PROPAGATION APPARATUS | 2024/11/25 |
| A2024/01210 | Box Connector | 2024/11/26 |
| A2024/01213 | WATCHES | 2024/11/27 |
| A2024/01215 | ELECTRONIC CIGARETTE | 2024/11/27 |
| A2024/01216 | ELECTRONIC CIGARETTE | 2024/11/27 |
| A2024/01217 | ELECTRONIC CIGARETTE | 2024/11/27 |
| A2024/01218 | DISPLAY UNIT | 2024/11/27 |
| A2024/01226 | Punnet | 2024/11/28 |
| A2024/01229 | WATCHES | 2024/11/29 |
| A2024/01230 | WATCH CASES | 2024/11/29 |
| A2024/01231 | AUTOMOBILES | 2024/11/29 |
| A2024/01247 | A BOTTLE | 2024/12/03 |
| A2024/01279 | GARDEN FURNITURE | 2024/12/10 |
| A2024/01280 | GARDEN FURNITURE | 2024/12/10 |
| A2024/01281 | GARDEN FURNITURE | 2024/12/10 |
| A2024/01282 | GARDEN FURNITURE | 2024/12/10 |
| A2024/01288 | GARDEN FURNITURE | 2024/12/10 |
| A2024/01289 | A TRAY | 2024/12/10 |
| A2024/01290 | GARDEN FURNITURE | 2024/12/10 |
| A2024/01294 | BOTTLE | 2024/12/11 |
| A2024/01295 | BOTTLE | 2024/12/11 |
| A2024/01298 | RIDE-ON VEHICLE | 2024/12/11 |

| Application Number | Design Articles | Filing Date |
|---|---|---|
| A2024/01357 | MASCARA BRUSHES | 2024/12/18 |
| A2024/01378 | TRAILER | 2024/12/20 |
| F2020/00265 | SLEEK CAN HOLDERS | 2020/02/27 |
| F2022/01698 | WATCH MECHANISMS | 2022/12/22 |
| F2023/01406 | AN AUTOINJECTOR | 2023/12/13 |
| F2024/00328 | GAS DISTRIBUTOR | 2024/04/04 |
| F2024/00919 | STOCK COUNT INNOVATION | 2024/09/17 |
| F2024/01019 | LABORATORY TOOLS | 2024/10/08 |
| F2024/01141 | JUNCTION BOXES | 2024/11/07 |
| F2024/01155 | ROLL-ON CONTAINER | 2024/11/14 |
| F2024/01171 | An Insert for a Run Flat Tyre | 2024/11/19 |
| F2024/01195 | PLANT PROPAGATION APPARATUS | 2024/11/25 |
| F2024/01209 | Box Connector | 2024/11/26 |
| F2024/01211 | Box Connector Blank | 2024/11/26 |
| F2024/01219 | DISPLAY UNIT | 2024/11/27 |
| F2024/01222 | A Tool for Assembling an Article of Packaging | 2024/11/28 |
| F2024/01225 | A Tank for a Road Truck | 2024/11/28 |
| F2024/01227 | Punnet | 2024/11/28 |
| F2024/01228 | Punnet Blank | 2024/11/28 |
| F2024/01237 | A Trailer for a Road Vehicle | 2024/11/29 |
| F2024/01248 | A BOTTLE | 2024/12/03 |
| F2024/01291 | A TRAY | 2024/12/10 |
| F2024/01359 | BAIT LAUNCHERS | 2024/12/18 |
| F2024/01365 | LOCK MOUNTS | 2024/12/18 |
| F2024/01366 | LOCKS | 2024/12/18 |
| F2024/01377 | TRAILER | 2024/12/20 |
| F2025/00092 | CONTAINER | 2025/01/22 |
| F2025/00167 | LAPTOP ADJUSTABLE BEDSIDE | 2025/02/13 |