PATENT JOURNAL

INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

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PATENTS, TRADE MARKS, DESIGNS AND COPYRIGHT OFFICE

Official notices of proceedings under:

The Patents Act, 1978
The Designs Act, 1993
The Trade Marks Act, 1963
The Trade Marks Act, 1993
The Registration of Copyright in Cinematograph Films Act, 1977

Registrar of Patents, Trade Marks, Designs and Copyright

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2. PATENTS

PATENTS

APPLICATIONS FOR PATENTS

Copies of these specifications cannot be supplied until the applications have been accepted and advertised, or in the case of convention applications, until 18 months from the date of the application in the convention

THE PARTICULARS APPEAR IN THE FOLLOWING SEQUENCE:

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(DA)** 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 2024/05/27 -

2024/04118 ~ Complete ~54:TERMINAL ASSEMBLY FOR CONDUCTOR ROD HAVING MULTIPLE DEGREES OF FREEDOM ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: STRASHNY, Igor~ 33:US ~31:17/535,235 ~32:24/11/2021

2024/04129 ~ Complete ~54:APPARATUS FOR HYDROGEN PRODUCTION ~71:8 RIVERS CAPITAL, LLC, 406 Blackwell Street, Durham, United States of America ~72: ALLAM, Rodney John~ 33:US ~31:63/280,761 ~32:18/11/2021;33:US ~31:63/280,774 ~32:18/11/2021;33:US ~31:63/280,786 ~32:18/11/2021;33:US ~31:63/280,793 ~32:18/11/2021;33:US ~31:63/423,301 ~32:07/11/2022

2024/04136 ~ Complete ~54:SEPARABLE FILTER HOLDER FOR AN ESPRESSO COFFEE MACHINE ~71:La Marzocco S.r.l., Via La Torre, 14/H, SCARPERIA E SAN PIERO 50038, ITALY, Italy ~72: DELLA PIETRA, Stefano;GATTI, Riccardo;GUCCI, Simone;MARCHI, Riccardo~ 33:IT ~31:102021000030959 ~32:09/12/2021

2024/04089 ~ Provisional ~54:MARK CAPTURING SYSTEM IN THE EDUCATION SPACE ~71:Andile Ntsele, mm15 street, South Africa ~72: Andile Ntsele~

2024/04102 ~ Complete ~54:A DIAMOND POLISHING AND POLISHING DEVICE ~71:Jiaruifu Diamond (Henan) Co., Ltd, 1301, 13th Floor, Unit 2, Building 13, No. 37 Yuxiang Road, High tech Industrial Development Zone, Zhengzhou City, People's Republic of China ~72: Feng Canjun~

2024/04122 ~ Complete ~54:FUSED IMIDE DERIVATIVE ~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., No.369 Yuzhou South Rd., Lianyungang, People's Republic of China ~72: DENG, Li;HUANG, Yongkang;REN, Jing;WANG, Jinan;WANG, Qinglin;XU, Sheng;YANG, Xiaojun;ZHANG, Yinsheng~ 33:CN ~31:202111371514.4 ~32:18/11/2021;33:CN ~31:202210824373.5 ~32:13/07/2022;33:CN ~31:202211378992.2 ~32:04/11/2022;33:CN ~31:202211413934.9 ~32:11/11/2022

2024/04132 ~ Complete ~54:SENSING HEAD FOR DETERMINING THE LENGTH OF THE ABDOMINAL CAVITY OF A SLAUGHTERED, DECAPITATED AND GUTTED FISH, PROCESSING STATION HAVING A KNIFE UNIT AND A SENSING HEAD OF THIS TYPE, AND DEVICE AND METHOD FOR PROCESSING, IN PARTICULAR FILLETING, SLAUGHTERED, DECAPITATED AND GUTTED FISH ~71:NORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KG, Geniner Str. 249, Germany ~72: TYCHSEN, Werner~ 33:WO ~31:PCT/EP2021/083171 ~32:26/11/2021

2024/04140 ~ Complete ~54:METHODS OF TREATING CNS DISORDERS ~71:Hangzhou HighlightLL Pharmaceutical Co., Ltd, Room 301/302, No.4 BLDG, Hexiang Science & Technology Center, Qiantang District, HANGZHOU 310018 , ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: LIANG, Congxin;TANG, Wei~ 33:CN ~31:202111069990.0 ~32:13/09/2021

2024/04098 ~ Complete ~54:LIFTING EYES FOR COUNTERWEIGHTS ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: LAWSON, Sean D.;TABUTIN, Simon~ 33:US ~31:18/331,987 ~32:09/06/2023

2024/04119 ~ Complete ~54:CONNECTOR ASSEMBLY FOR CONDUCTOR ROD HAVING MULTIPLE DEGREES OF FREEDOM ~71:CATERPILLAR INC., 100 NE Adams Street - AH9510, United States of America ~72: STRASHNY, Igor~ 33:US ~31:17/535,301 ~32:24/11/2021

2024/04130 ~ Complete ~54:CO2 POWER CYCLE WITH ADIABATIC COMPRESSION ~71:8 RIVERS CAPITAL, LLC, 406 Blackwell Street, Durham, United States of America ~72: ALLAM, Rodney John~ 33:US ~31:63/280,790 ~32:18/11/2021

2024/04153 ~ Complete ~54:POROUS TRANSPORT LAYER FOR USE IN A POLYMER ELECTROLYTE MEMBRANE ELECTROLYZER, AN ELECTROLYZER COMPRISING SAID POROUS TRANSPORT LAYER, A METHOD FOR OBTAINING SAID POROUS TRANSPORT LAYER AND A METHOD FOR ELECTROLYSING WATER USING SAID POROUS TRANSPORT LAYER ~71:MAGNETO SPECIAL ANODES B.V., Calandstraat 109, 3125 BA, Schiedam, Netherlands ~72: ADRIAAN W JEREMIASSE;JOHANNES GODFRIED VOS;MATTI VAN SCHOONEVELD~ 33:US ~31:63/290,724 ~32:17/12/2021;33:US ~31:63/306,710 ~32:04/02/2022

2024/04111 ~ Complete ~54:WASTE CLASSIFICATION SYSTEM AND METHOD FOR SAME ~71:Manipal University Jaipur, Manipal University Jaipur, Jaipur-Ajmer Express Highway, Dehmi Kalan, Near GVK Toll Plaza, Jaipur, Rajasthan, 303007, India ~72: Dr. Saurabh Sharma~ 33:IN ~31:202411036598 ~32:09/05/2024

2024/04147 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ROTHWELL, Howard~ 33:GB ~31:2118834.7 ~32:22/12/2021

2024/04113 ~ Complete ~54:BAGGING TOOLING DEVICE AND METHOD FOR SHIITAKE MUSHROOMS ~71:HUBEI ZHONGXING FOOD CO., LTD., No. 1978, Jiaotong Road, Economic Development Zone in Sui County,, People's Republic of China ~72: CUI, Jianjun;SHU, Dazhong~ 33:CN ~31:202310425049.0 ~32:20/04/2023;33:WO ~31:PCT/CN2023/095085 ~32:18/05/2023

2024/04109 ~ Complete ~54:A HEAD-MOUNTED PROTECTIVE DEVICE FOR INFECTIOUS DISEASE DEPARTMENT ~71:The First Hospital of Yulin, The First Hospital of Yulin, No. 93, Yuxi Avenue, Yuyang District, Yulin City, Shaanxi Province, 719000, People's Republic of China ~72: Bai Xiaoxiao;Gao Yunfei;Liu Xia~

2024/04104 ~ Complete ~54:A KIND OF ONE-PIECE OIL FILM BEARING FOR SPITTING MACHINE ~71:ZHEJIANG PENGCHENG TECHNOLOGY CO., LTD, Liuhuai Industrial Functional Zone, Weishan Town, Dongyang City, People's Republic of China ~72: HE, Yaoyao;PAN, Kangping;WANG, Yongwei~ 33:CN ~31:CN202323302211.4 ~32:05/12/2023

2024/04149 ~ Complete ~54:MODIFICATION PATTERNS FOR SMALL INTERFERING RNA MOLECULES WITH HIGH STABILITY AND GENE SILENCING ACTIVITIES ~71:MICROBIO (SHANGHAI) CO. LTD., No.1188, Guangxing Rd., Songjiang District, Shanghai, 201613, People's Republic of China ~72: CHI-FAN YANG;HUI-YU CHEN;YI-CHUNG CHANG;YI-FEN CHEN~ 33:CN ~31:PCT/CN2021/135465 ~32:03/12/2021

2024/04154 ~ Complete ~54:PROCESSES FOR SYNTHESIZING GLUCAGON-LIKE-PEPTIDE 2 (GLP-2) ANALOGUES ~71:ZEALAND PHARMA A/S, Sydmarken 11, Denmark ~72: HANSEN, Stefan;MALIK, Leila;MELANDER, Claes;PAWLAS, Jan~ 33:EP ~31:21217600.2 ~32:23/12/2021

2024/04116 ~ Complete ~54:CONTINUOUS SAMPLING DRILL BIT ~71:VERACIO LTD., 2455 South 3600 West, United States of America ~72: BRUBACHER, Adrian;DRENTH, Christopher L.~ 33:US ~31:63/285,844 ~32:03/12/2021

2024/04103 ~ Complete ~54:RELATED GENE SCREENING METHOD OF GOOSE LAYING PERFORMANCE ~71:INSTITUTE OF ANIMAL HUSBANDRY, HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368 XUEFU ROAD, People's Republic of China ~72: PENG, Fugang;SUN, Jinyan;YUE, Shan;ZHANG, Yuanliang;ZHAO, Xiuhua~

2024/04125 ~ Complete ~54:BRAKE CONTROL SYSTEM FOR BATTERY-POWERED MACHINE ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 3501 N. FM Hwy 1417, United States of America ~72: LANE, Cameron, T.;SCHNEIDER, Karl P.~ 33:US ~31:17/537,420 ~32:29/11/2021

2024/04148 ~ Complete ~54:METHOD AND SYSTEM FOR PERMISSION MANAGEMENT ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: MEE, Andrew James;RAND, Ricky Charles~ 33:GB ~31:2201289.2 ~32:01/02/2022;33:GB ~31:2201290.0 ~32:01/02/2022;33:GB ~31:2201291.8 ~32:01/02/2022;33:GB ~31:2201292.6 ~32:01/02/2022

2024/04090 ~ Provisional ~54:CONTAINER ~71:PLASTPACK DEFENCE APS, Solvang 25, DK-3450, Alleroed, Denmark ~72: JØRGEN DAHL;JØRGEN LEIF SVANE~

2024/04124 ~ Complete ~54:BATTERY MANAGEMENT FOR MACHINE SERVICE OPERATIONS ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 3501 N. FM Hwy 1417, United States of America ~72: LANE, Cameron, T.~ 33:US ~31:17/537,365 ~32:29/11/2021

2024/04135 ~ Complete ~54:IMIDAZOPYRIDINE AMIDES AND RELATED COMPOUNDS FOR USE IN THE TREATMENT OF BACTERIAL INFECTIONS ~71:Janssen Sciences Ireland Unlimited Company, Barnahely, RINGASKIDDY, CO CORK, IRELAND, Ireland ~72: AMSSOMS, Katie Ingrid Eduard;BARTOLOMÉ-NEBREDA, José Manuel;LAMPRECHT, Dirk Antonie;MARTÍN-MARTÍN, María Luz;STOOPS, Bart Henri Theresia;VERNIEST, Guido Alfons F.~ 33:EP ~31:21205213.8 ~32:28/10/2021

2024/04143 ~ Complete ~54:AEROSOL DELIVERY SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: SHERIDAN, James;SUTTON, Joseph Peter;WOODMAN, Tom~ 33:GB ~31:2118829.7 ~32:22/12/2021

2024/04097 ~ Complete ~54:MALWARE DETECTION SYSTEM AND METHOD THEREOF ~71:Dr. Sachin Ratikant Gengaje, F-1/A-3, Awanti Nagar, Old Pune Naka, Murarji Peth, Walchand Institute of Technology, Solapur (PAHS University, Solapur), Solapur, Maharashtra, 413002, India;Dr. Vijay Anant Athavale, MIG B-65, Sonagiri, BHEL, Walchand Institute of Technology, Solapur (PAHS University, Solapur), BHOPAL, Madhya pradesh, 462023, India;Miss. Rajeshwari Krishnahari Gundla, Prasanna Niwas, House.No.-4/559, S.N.-48/2, Dhanlaxmi Society, Ganesh Nagar, Wadgaonsheri, Walchand Institute of Technology, Solapur (PAHS University, Solapur), Pune, Maharashtra, 411014, India ~72: Dr. Sachin Ratikant Gengaje;Dr. Vijay Anant Athavale;Miss. Rajeshwari Krishnahari Gundla~

2024/04127 ~ Complete ~54:IMPROVEMENT OF GLASS STRENGTH AND FRACTURE TOUGHNESS BY A NON-BRITTLE COATING ~71:EXXERGY GMBH, Am Wasserbogen 28, Germany ~72: BROWN, John;SAUER, Thomas C.;YOLDAS, Bulent~ 33:DE ~31:10 2021 129 250.6 ~32:10/11/2021

2024/04092 ~ Provisional ~54:107 BUSINESS CONSULTING ~71:Magubane Ntokozo Maxwell 107 PTY LTD, H794 Sofasonke Road Unit 6, South Africa ~72: Magubane Ntokozo Maxwell 107 PTY LTD~

2024/04101 ~ Complete ~54:A CATALYST POWDER PRODUCTION DEVICE FOR DIAMOND SYNTHESIS ~71:Henan Hongtai Diamond Technology Co., Ltd, No. 88, Intersection of Longdu Avenue and Yifeng Road, Huaiyang District, Zhoukou City, People's Republic of China ~72: Feng Shuli~

2024/04133 ~ Complete ~54:HEAT GENERATION FOR SEPARATE ENDOTHERMIC PROCESS WITH CARBON CAPTURE ~71:8 RIVERS CAPITAL, LLC, 406 Blackwell Street, Durham, United States of America ~72: ALLAM, Rodney John;BROWN JR., Glenn William~ 33:US ~31:63/280,822 ~32:18/11/2021

2024/04137 ~ Complete ~54:HEAT-INSULATED FILTER HOLDER FOR AN ESPRESSO COFFEE MACHINE ~71:La Marzocco S.r.l., Via La Torre, 14/H, SCARPERIA E SAN PIERO (FI) 50038, ITALY, Italy ~72: DELLA PIETRA, Stefano;GATTI, Riccardo;GUCCI, Simone;MARCHI, Riccardo~ 33:IT ~31:102021000030974 ~32:09/12/2021

2024/04151 ~ Complete ~54:AN ANTIFUNGAL COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: NAMISHA MOHAPATRA;SAMIRAN MAHAPATRA;SANDEEP VARMA;SRILAXMI VENKATA MEDEPALLI~ 33:EP ~31:22150129.9 ~32:04/01/2022

2024/04106 ~ Complete ~54:EARLY-WARNING METHOD FOR SLOPE MONITORING, COMPUTER-READABLE STORAGE MEDIUM AND COMPUTER DEVICE ~71:China Nonferrous Metal Changsha Survey and Design Institute Co., Ltd., No. 101, Building 1, Kangting Garden, No. 579, Zhenhua Road, Yuhua District, Changsha City, Hunan Province, 410117, People's Republic of China ~72: Du Nianchun;Huang Yi;Shen Xiangqian;Xie Xiang~ 33:CN ~31:2023115030649 ~32:13/11/2023

2024/04150 ~ Complete ~54:DATABASE MANAGEMENT ENGINE FOR A DATABASE MANAGEMENT SYSTEM ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: ADIR ATIAS;AVIAD PINES;AVIRAM FIREBERGER;EVGENY LUTSKY;ORON GOLAN~ 33:US ~31:17/567,022 ~32:31/12/2021

2024/04145 ~ Complete ~54:AEROSOL GENERATING SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: SUTTON, Joseph Peter~ 33:GB ~31:2118831.3 ~32:22/12/2021

2024/04114 ~ Complete ~54:INSECT-RESISTANT AND HERBICIDE-RESISTANT TRANSGENIC CORN AND CULTIVATION METHOD THEREFOR ~71:BEIJING GUOFENG BIOTECHNOLOGY CO., LTD, Bldg 1—1A, No.7, Liangshuihe 1st Street, Beijing Economic—Technological Development Area, Daxing District, People's Republic of China ~72: WANG, Lei~ 33:CN ~31:202111420976.0 ~32:26/11/2021

2024/04112 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR ALLEVIATING ACUTE LUNG INJURY IN SEPSIS, AND PREPARATION METHOD THEREOF ~71:HEILONGJIANG UNIVERSITY OF CHINESE MEDICINE, No. 24, Heping Road, Xiangfang District, Harbin City, People's Republic of China ~72: Han LIU;Jie YU;Qun LIANG;Xiaosheng GUO~ 33:CN ~31:202410483362.4 ~32:22/04/2024

2024/04091 ~ Provisional ~54:BAG VALVE ADAPTOR ~71:Paratrak (Pty)Ltd, 325 Waterfall Hills Estate, South Africa ~72: Richard Roy Wood, Roy Canstant Wood~

2024/04099 ~ Complete ~54:COMPOSITE BACTERIAL AGENT FOR INCREASING THE BIOMASS OF CONTAINER SEEDLINGS OF HEPTACODIUM MICONIOIDES AND ITS APPLICATION ~71:TAIZHOU UNIVERSITY, 1139 Shifudadao Road, Taizhou, People's Republic of China ~72: Jianhui LI;Junmin LI;Xiaoyan WANG;Yongge YUAN;Yueling LI;Zexin JIN~

2024/04120 ~ Complete ~54:MULTI-TIERED INTERFACE BETWEEN CONDUCTOR ROD AND WORK MACHINE ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: STRASHNY, Igor~ 33:US ~31:17/535,166 ~32:24/11/2021

2024/04142 ~ Complete ~54:HEATING ELEMENTS FOR AN AEROSOL DELIVERY SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: SHERIDAN, James;SUTTON, Joseph Peter~ 33:GB ~31:2118851.1 ~32:22/12/2021

2024/04144 ~ Complete ~54:AEROSOL GENERATING SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ROTHWELL, Howard~ 33:GB ~31:2118833.9 ~32:22/12/2021

2024/04094 ~ Complete ~54:POLYESTER RESIN PARTICLES AND PREPARATION METHOD THEREOF, AND POWDER COATING ~71:Hengyang Shantai Chemical Co., Ltd, Xidu High-tech Industrial Park, Hengyang County, Hengyang City, Hunan Province, 421200, People's Republic of China ~72: GONG, Tao;LI, Liedong;WANG, Yanqing;WU, Hongmei;ZHANG, Liangwu~

2024/04128 ~ Complete ~54:APPARATUS FOR PRODUCTION OF IRON METAL BY ELECTROLYSIS ~71:ARCELORMITTAL, 24-26, Boulevard d'Avranches, Luxembourg ~72: Hervé LAVELAINE DE MAUBEUGE~

2024/04138 ~ Complete ~54:PROCESS ~71:ST Equipment & Technology LLC, 101 Hampton Avenue, NEEDHAM 02494, MA, USA, United States of America ~72: GUPTA, Abhishek;RODRICKS, Peter Anil~ 33:AU ~31:2021903968 ~32:08/12/2021

2024/04105 ~ Complete ~54:WEIGHTED K-NEAREST NEIGHBOR LOCALIZATION METHOD BASED ON DUAL FINGERPRINT PARAMETERS AND LOCALIZATION SYSTEM ~71:China Nonferrous Metal Changsha Survey and Design Institute Co., Ltd., No. 101, Building 1, Kangting Garden, No. 579, Zhenhua Road, Yuhua District, Changsha City, Hunan Province, 410117, People's Republic of China ~72: Du Nianchun;Shen Xiangqian;Wu Wei~ 33:CN ~31:2023107108533 ~32:15/06/2023

2024/04093 ~ Provisional ~54:GRAVESTONE QR CODE MEMOIR ~71:Boitumelo, 6 visvanger, Birch acres, South Africa ~72: Kevin~

2024/04100 ~ Complete ~54:METHOD FOR IMPROVING EGG LAYING PERFORMANCE OF GEESE ~71:INSTITUTE OF ANIMAL HUSBANDRY, HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES, NO. 368 XUEFU ROAD, People's Republic of China ~72: LIU, Guojun;PENG, Fugang;SUN, Jinyan;YUE, Shan;ZHANG, Yuanliang;ZHAO, Xiuhua~

2024/04121 ~ Complete ~54:RADIAL AND AXIAL INTERFACE BETWEEN CONDUCTOR ROD AND WORK MACHINE ~71:CATERPILLAR INC., 100 NE Adams Street - AH9510, United States of America ~72: STRASHNY, Igor~ 33:US ~31:17/535,254 ~32:24/11/2021

2024/04131 ~ Complete ~54:METHOD FOR HYDROGEN PRODUCTION ~71:8 RIVERS CAPITAL, LLC, 406 Blackwell Street, Durham, United States of America ~72: ALLAM, Rodney John~ 33:US ~31:63/280,761 ~32:18/11/2021;33:US ~31:63/280,774 ~32:18/11/2021;33:US ~31:63/280,786 ~32:18/11/2021;33:US ~31:63/280,793 ~32:18/11/2021;33:US ~31:63/423,301 ~32:07/11/2022

2024/04141 ~ Complete ~54:HYDRAULIC SYSTEM, WORKING VEHICLE AND METHOD ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: VATANEN, Harri;VERHO, Samuli~ 33:EP ~31:21213736.8 ~32:10/12/2021

2024/04107 ~ Complete ~54:SYSTEM FOR OPTIMIZATION OF SUPPLY CHAIN FINANCE MANAGEMENT BASED ON BIG DATA ~71:KANIKE, Uday Kumar, SAP TECHNICAL ARCHITECT, GEORGIA STATE UNIVERSITY, ATLANTA, GEORGIA, United States of America;PATNAIK, Rabinarayan, ASSOCIATE PROFESSOR (MARKETING MANAGEMENT), FACULTY OF MANAGEMENT SCIENCES, IBCS, SIKSHA 'O' ANUSANDHAN (SOA) DEEMED TO BE UNIVERSITY, BHUBANESWAR, ODISHA, India ~72: KANIKE, Uday Kumar;PATNAIK, Rabinarayan~

2024/04108 ~ Complete ~54:UMBRELLA TYPE SOLAR COOKER WITH TRACKING SYSTEM ~71:Biswaranjan Acharya, Assistant Professor, Department of Computer Engineering-AI & BD, Marwadi University, Rajkot, Gujarat, India;Dr Lipika Nanda, Assistant Professor (II), School of Electrical Engineering, KIIT Deemed to be University (An Institute of Eminence), Bhubaneswar, Odisha, 751024, India;Dr. Arjyadhara Pradhan, Associate Professor, School of Electrical Engineering, KIIT deemed to be University (An Institute of Eminence), Bhubaneshwar, Odisha, India;Dr. Kananbala Ray, Associate Professor , School of Electronics Engineering, KIIT Deemed to be University (An Institute of Eminence), Bhubaneswar, Odisha, 751024, India;Dr. Sanhita Mishra, Institute of Management Studies Banaras Hindu University Varanasi, 221005, UP, India;Dr. Sarita Samal, Assistant Professor (II), School of Electrical Engineering, KIIT Deemed to be University (An Institute of Eminence), Bhubaneswar, Odisha, 751024, India;Dr. Srikanta Mohapatra, Associate Professor, School of Electrical Engineering, KIIT Deemed to be University (An Institute of Eminence), Bhubaneswar, Odisha, India ~72: Biswaranjan Acharya;Dr Lipika Nanda;Dr. Arjyadhara Pradhan;Dr. Kananbala Ray;Dr. Sanhita Mishra;Dr. Sarita Samal;Dr. Srikanta Mohapatra~

2024/04095 ~ Complete ~54:SURFACE SIZING AGENT FOR PAPER AND/OR CARDBOARD ~71:MONDI AG, Marxergrasse 4A, Austria ~72: LEITNER, Johannes~ 33:AT ~31:A 50426/2023 ~32:31/05/2023

2024/04088 ~ Provisional ~54:ARRANGEMENT AND METHOD FOR ACCESS CONTROL AND FEE PAYMENT AT A BILLABLE AREA ~71:J EXPORTS (PTY) LTD., Unit 5 Marlborough Mansions, 20 Queens Road, Seapoint, South Africa ~72: Crafford, Anita Laurenza;Kyriacou, Paul~

2024/04123 ~ Complete ~54:SYSTEM AND METHOD FOR POSITIONING A CONDUCTIVE ROD POWERING A WORK MACHINE ~71:CATERPILLAR INC., 100 NE Adams Street - AH9510, United States of America ~72: STRASHNY, Igor~ 33:US ~31:17/535,162 ~32:24/11/2021

2024/04134 ~ Complete ~54:CCR6 RECEPTOR MODULATORS ~71:Idorsia Pharmaceuticals Ltd, Hegenheimermattweg 91, ALLSCHWIL 4123, SWITZERLAND, Switzerland ~72: ALLEMANN, Oliver;HUBLER, Francis;MEYER, Emmanuel~ 33:IB ~31:2021/080016 ~32:28/10/2021

2024/04139 ~ Complete ~54:TIMELINE BASED REPRESENTATION FOR HAPTIC SIGNAL ~71:InterDigital CE Patent Holdings, SAS, 3 rue du Colonel Moll, PARIS 75017, FRANCE, France ~72: DANIEAU, Fabien;GALVANE, Quentin;GUILLOTEL, Philippe~ 33:EP ~31:21306693.9 ~32:02/12/2021;33:EP ~31:22305295.2 ~32:15/03/2022

2024/04146 ~ Complete ~54:DELIVERY SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: SUTTON, Joseph Peter~ 33:GB ~31:2118832.1 ~32:22/12/2021

2024/04115 ~ Complete ~54:CONCENTRIC CONDUCTOR ~71:CATERPILLAR INC., 100 NE Adams Street - AH9510, United States of America ~72: HAMILLA, Andrew;STRASHNY, Igor~ 33:US ~31:17/535,075 ~32:24/11/2021

2024/04117 ~ Complete ~54:SLIDABLE NESTED CONDUCTORS ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: STRASHNY, Igor~ 33:US ~31:17/456,479 ~32:24/11/2021

2024/04096 ~ Complete ~54:OBJECT DETECTION IN ADVANCED DRIVING ASSISTANCE SYSTEM USING NOVEL MACHINE LEARNING ALGORITHMS ~71:Dr. Sachin Ratikant Gengaje, F-1/A-3, Awanti Nagar, Old Pune Naka, Murarji Peth, Affiliation: Walchand Institute of Technology, Solapur (PAHS University, Solapur), Solapur, Maharashtra, 413002, India;Dr. Vijay Anant Athavale, MIG B-65, Sonagiri, BHEL, Walchand Institute of Technology, Solapur (PAHS University, Solapur), BHOPAL, Madhya pradesh, 462023, India;Mr. Babruvan Ramrao Solunke, Flat No. F4, Shantisagar Apartment, Aryanandinagar, Vasant Vihar Road, Near Old Pune Naka, Affiliation: Walchand Institute of Technology, Solapur (PAHS University, Solapur), Solapur, Maharashtra, 413001, India ~72: Dr. Sachin Ratikant Gengaje;Dr. Vijay Anant Athavale;Mr. Babruvan Ramrao Solunke~

2024/04110 ~ Complete ~54:METHOD FOR IMPROVING ACCURACY OF BLOOD PRESSURE MEASUREMENT IN PATIENT WITH ATRIAL FIBRILLATION ~71:Shunde Hospital, Southern Medical (The First People's Hospital of Shunde), No. 1, Jiazi Road, Lunjiao, Shunde District, Foshan City, Guangdong Province, 528308, People's Republic of China ~72: Hao Shali;Huang Xiaohui;Huang Yuli;Mai Shaojun~

2024/04126 ~ Complete ~54:METHOD FOR PRODUCING HIGH BOILING POINT SOLVENT OIL AS BY-PRODUCT BY CRUDE BENZOL REFINING ~71:HUAIBEI NORMAL UNIVERSITY, 100 Dongshan Road, Huaibei, Anhui, 235000, People's Republic of China ~72: Da LI;Fengyu LI;Hui LI;Lei ZHU;Lihua LIU;Shuqun LIU;Xin LI;Zhiguo LI~ 33:CN ~31:202211093852.0 ~32:08/09/2022

2024/04152 ~ Complete ~54:PERSONAL CARE COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: TINGYAN MI;XUELAN GU~ 33:CN ~31:PCT/CN2021/143514 ~32:31/12/2021;33:EP ~31:22153546.1 ~32:27/01/2022

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2024/04158 ~ Provisional ~54:WATER TRAP ~71:AFRICAN EXECUTIVE IMPORT AND EXPORT AGENCY (PTY) LTD., 4 Bragg Street, RANDFONTEIN 1763, Gauteng, SOUTH AFRICA, South Africa ~72: KOTZE, Stephen~

2024/04157 ~ Provisional ~54:A DEFLECTOR ~71:VISSER, Christiaan Pieter;, 377 Larsens street, South Africa ~72: VAN DER WALT, Herman;VISSER, Christiaan Pieter;~

2024/04165 ~ Complete ~54:ARCH-BREAKING DEVICE AND METHOD FOR MATERIAL BLOCKAGE OF EXPLOSIVE ON-SITE MIXING AND CHARGING TRUCK ~71:China Coal Technology Engineering Group Huaibei Blasting Technology Research Institute Co.,Ltd., No. 150, Dongshan Road, Huaibei City, Anhui Province, People's Republic of China ~72: Huang Song;Li Juanjuan;Li Yong;Lin Fei;Liu Wei;Pan Xianfeng;Wang Xiaohong;Wang Xiaoyun;Xia Guang;Yang Zongling;Zhang Chengjun;Zhang Chong;Zhang Zhigang~

2024/04156 ~ Provisional ~54:BULK MATERIAL HANDLING APPARATUS ~71:RULA HOLDINGS (PTY) LTD., 42 Kielboot Avenue, Laser Park, Honeydew, 2040, South Africa ~72: ROELF FREDRICK ODENDAAL~

2024/04175 ~ Complete ~54:POLYNUCLEOTIDES FOR MODIFYING ORGANISMS ~71:Flagship Pioneering Innovations VII, LLC, 55 Cambridge Parkway, 8th Floor, Suite 800E, CAMBRIDGE 02142, MA, USA, United States of America ~72: CHU, Fu Chyun;DENNIS, Elizabeth Jane Antonelli;HALAC, Mehmet Ali;HAO, Yumeng;KHAKHAR, Arjun Devang;KLICKI, Kevin;KREMER, James Michael;KUMAR, Jayashree;LIN, Chien-Yuan;MARTIN, Barry Andrew;NIU, Yajie;PANT, Shankar Raj;ROTHENHEBER, Derek Thomas;SHARPE, Michka Gabrielle;SINGH, Aditya Sushil Kumar;SPRAGUE, Daniel Alexander~ 33:US ~31:63/274,156 ~32:01/11/2021;33:US ~31:63/379,063 ~32:11/10/2022

2024/04177 ~ Complete ~54:METHOD FOR MEASURING VIBRATIONS OF A VIBRATION MACHINE ~71:Sandvik Rock Processing Australia Pty Limited, 65 Epping Road, NORTH RYDE 2113, NEW SOUTH

WALES, AUSTRALIA, Australia ~72: RAIS, Viktor;SCHÄFER, Jan~ 33:DE ~31:10 2021 131 189.6 ~32:29/11/2021

2024/04182 ~ Complete ~54:BIOMARKERS FOR PROGNOSIS OF EARLY ONSET PREECLAMPSIA ~71:B.R.A.H.M.S GmbH, Neuendorfstraße 25, HENNIGSDORF 16761, GERMANY, Germany;Université Laval, 2325, rue de l''Université, Québec, QUÉBEC G1V 0A6, CANADA, Canada ~72: BUJOLD, Emmanuel~ 33:EP ~31:21213234.4 ~32:08/12/2021

2024/04183 ~ Complete ~54:TREATMENT OF MAJOR DEPRESSIVE DISORDER ~71:RICHTER GEDEON NYRT., H-1103 Budapest, Hungary ~72: BUDUR, Kumar;EARLEY, Willie;REKEDA, Ludmyla~ 33:US ~31:63/263,213 ~32:28/10/2021;33:US ~31:63/362,446 ~32:04/04/2022

2024/04185 ~ Complete ~54:TRACKING DEVICE FOR SOLAR MODULES ~71:SCHLETTER INTERNATIONAL B.V., Herikerbergweg 88, 1101, CM Amsterdam, Netherlands ~72: GABRIEL DECHANT;JAN ZAPFE~ 33:DE ~31:10 2022 102 605.1 ~32:03/02/2022

2024/04189 ~ Complete ~54:TILE AND TILING SYSTEM ~71:BELGOTEX FLOORCOVERINGS (PTY) LTD T/A BELGOTEX FLOORS, 20 Chesterfield Road, Willowton, South Africa ~72: ROOKE, Gavin Alexander~ 33:ZA ~31:2021/10178 ~32:09/12/2021;33:WO ~31:PCT/IB2022/061799 ~32:06/12/2022

2024/04191 ~ Complete ~54:LIFTABLE STAGE ~71:Anhui Normal University, No. 189, Jiuhua South Road, Wuhu City, People's Republic of China ~72: Fang Chao;Luo Yifen;Song Yuping;Xue Haotian;Zhang Jie;Zhang Lunzhi~ 33:CN ~31:202310668696.4 ~32:06/06/2023

2024/04168 ~ Complete ~54:PHOTOVOLTAIC CATTLE FARM WITH COMPLEMENTARY ANIMAL HUSBANDRY AND PHOTOVOLTAIC POWER GENERATION ~71:Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No. 23788, North Industrial Road, Licheng District, Jinan City, Shandong Province, 250100, People's Republic of China ~72: CHENG Haijian;HU Xin;JIANG Fugui;SONG Enliang;YOU Wei~ 33:CN ~31:2024206853365 ~32:03/04/2024

2024/04171 ~ Complete ~54:THREE-DIMENSIONAL PHOTOVOLTAIC MODULE ~71:GAUTHIER, Sylvain, 2426 chemin de la Chapelle, France ~72: GAUTHIER, Sylvain~ 33:FR ~31:21/14686 ~32:30/12/2021

2024/04172 ~ Complete ~54:SHEARING DEVICE, ARRANGEMENT AND USE ~71:METSO FINLAND OY, Rauhalanpuisto 9, Finland ~72: VIDUKA, Stephen Martin~ 33:FI ~31:20216120 ~32:28/10/2021

2024/04174 ~ Complete ~54:NOVEL ANTI-IL-36R ANTIBODIES ~71:Inmagene Pte. Ltd., 20 Emerald Hill Road, 229302, SINGAPORE, Singapore ~72: FAN, Lihua;FAN, Pengcheng;GUO, Chongtian;LEI, Run;SUN, Qiang;XU, Zhihao~ 33:IB ~31:2021/127544 ~32:29/10/2021;33:IB ~31:2022/118446 ~32:13/09/2022

2024/04178 ~ Complete ~54:ANTISENSE OLIGONUCLEOTIDES (ASO) FOR EFFICIENT AND PRECISE RNA EDITING WITH ENDOGENOUS ADENOSINE DEAMINASE ACTING ON RNA (ADAR) ~71:Eberhard Karls Universität Tübingen, Geschwister-Scholl-Platz, TÜBINGEN 72074, GERMANY, Germany ~72: LATIFI, Ngadhnjim;PFEIFFER, Laura Sophia;STAFFORST, Thorsten~ 33:EP ~31:21211372.4 ~32:30/11/2021

2024/04180 ~ Complete ~54:CAN LID AND METHOD FOR PRODUCING A CAN LID ~71:Top Cap Holding GmbH, Untere Sparchen 50, KUFSTEIN 6330 , AUSTRIA, Austria ~72: PIECH, Gregor Anton~ 33:DE ~31:10 2021 131 239.6 ~32:29/11/2021

2024/04192 ~ Complete ~54:NAPHTHALENE ISOXAZOLINE COMPOUND AND APPLICATION THEREOF ~71:Lv Zhitao, The first, second and fourth floors of Quality Inspection Building, No. 2350, Kaituo Road, High tech Zone, Jinan City, People's Republic of China;Shandong Chengchuang Blue Sea Pharmaceutical Technology

Co.,Ltd., The first, second and fourth floors of Quality Inspection Building, No. 2350, Kaituo Road, High tech Zone, Jinan City, People's Republic of China ~72: Cao Yan;Jiang Zhen;Liu Zhongjie;Lu Xingmin;Lv Zhitao;Nie Ting;Yao Songzhi~ 33:CN ~31:202310070589.1 ~32:16/01/2023

2024/04186 ~ Complete ~54:METHOD AND APPARATUS FOR PRODUCING A CALIBRATED STAMPED PART ~71:THOMAS HRACH, Beethovenstr. 12, 2380, Perchtoldsdorf, Austria ~72: THOMAS HRACH~ 33:AT ~31:A 50859/2021 ~32:29/10/2021

2024/04188 ~ Complete ~54:THERAPEUTIC AGENT FOR NERVE DISORDERS ~71:NEUROTECH MEDICAL CO., LTD., 1-26-2 Minamisakurazuka, Toyonaka-shi, Osaka, 5610882, Japan ~72: KUNIHIKO OKADA;NAGATOSHI KIHOIN~ 33:JP ~31:2020-198046 ~32:30/11/2020

2024/04176 ~ Complete ~54:PHARMACEUTICAL FORMULATIONS COMPRISING A CYCLODEXTRIN ~71:Novo Nordisk A/S, Novo Allé, BAGSVÆRD 2880, DENMARK, Denmark ~72: CHRISTOFFERSEN, Stig;HANSEN, Rosa Rebecca Erritzøe;KJELDSEN, Benjamin Troest~ 33:EP ~31:21214004.0 ~32:13/12/2021;33:EP ~31:22191564.8 ~32:22/08/2022

2024/04179 ~ Complete ~54:ATTACHMENT FOR A DRINKING DEVICE FOR RETRONASAL RECEPTION OF AN AROMA SUBSTANCE, AND DRINKING DEVICE ~71:air up group GmbH, Friedenstraße 22A, MÜNCHEN 81671, GERMANY, Germany ~72: JÄGER, Tim~

2024/04187 ~ Complete ~54:TREATMENT OF KIDNEY DISEASES WITH ANGIOPOIETIN LIKE 3 (ANGPTL3) INHIBITORS ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: ARIS BARAS;KISHOR DEVALARAJA-NARASHIMHA;LORI MORTON;LUANLUAN SUN;LUCA ANDREA LOTTA;MANUEL ALLEN REVEZ FERREIRA;MARY E HAAS~ 33:US ~31:63/292,581 ~32:22/12/2021;33:US ~31:63/340,254 ~32:10/05/2022

2024/04166 ~ Complete ~54:A MAZE ~71:WEZIWE MFANAFUTHI DUMA, 7 MARIKANA STREET, WIERDA PARK, South Africa ~72: WEZIWE MFANAFUTHI DUMA~

2024/04163 ~ Complete ~54:APPARATUS FOR AND METHOD OF FORMING A SHOPPING BASKET BODY WITH INTERCHANGEABLE SIDE PANELS ~71:SUPERCART SOUTH AFRICA (PTY) LTD, 32 Prospecton Road, PROSPECTON, Durban 4115, Kwazulu-Natal, SOUTH AFRICA, South Africa ~72: WOLFE, Michael Castledine~

2024/04159 ~ Provisional ~54:PHOTO-RECHARGEABLE METAL TELLURIUM OXIDE ALKALI-ION BATTERY ~71:NORTH-WEST UNIVERSITY, 1 Hoffman Street, Joon van Rooy Building, South Africa ~72: KRIEK, Roelof Jacobus~

2024/04161 ~ Complete ~54:LOW-POWER LONG-DISTANCE COMMUNICATION OF UNMANNED AERIAL VEHICLES BY USING LDPC CODES ~71:Jiaxing Vocational & Technical College, No. 547, Tongxiang Avenue, Nanhu District, Jiaxing City, Zhejiang Province, 314036, People's Republic of China ~72: Naijia Xiao;Yanjun Ji;Yongqi Wang;Yuyang Ji~

2024/04162 ~ Complete ~54:AIRCRAFT ENGINE FAULT PREDICTION METHOD ~71:Jiaxing Vocational & Technical College, No. 547, Tongxiang Avenue, Nanhu District, Jiaxing City, Zhejiang Province, 314036, People's Republic of China ~72: Hongxin Wang;Yanjun Ji;Yongqi Wang~

2024/04167 ~ Complete ~54:HEALTH DATA MANAGEMENT METHOD ~71:GUANGZHOU KEFU MEDICAL TECHNOLOGY CO., LTD, Second floor of No.5 factory Dongshen Village Dongyong Town, Nansha District, People's Republic of China ~72: LIU, Enping;LIU, Sujun;LIU, Yidi;TAN, Ping;WANG, Shengxiang~

2024/04169 ~ Complete ~54:RAILWAY VEHICLE COUPLER HAVING ROBUST KNUCKLE ~71:AMSTED RAIL COMPANY, INC., 311 South Wacker, Suite 5300, United States of America ~72: DEWALD, Dale, K.;PETRUNICH, Tom;SANDERS, Paul;TODT, Matthew;WIKE, Paul~ 33:US ~31:17/585,982 ~32:27/01/2022

2024/04170 ~ Complete ~54:ANNULATED 2-AMINO-3-CYANO THIOPHENES AND DERIVATIVES FOR THE TREATMENT OF CANCER ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany;VANDERBILT UNIVERSITY, 305 Kirkland Hall, 2201 West End Avenue, United States of America ~72: ABBOTT, Jason;BROEKER, Joachim;CUI, Jianwen;FESIK, Stephen W;FUCHS, Julian;GOLLNER, Andreas;HERDEIS, Lorenz;HODGES, Tim;LITTLE, Andrew;MANTOULIDIS, Andreas;PHAN, Jason;RAMHARTER, Juergen;SARKAR, Dhruba;SMETHURST, Christian Alan Paul;SOKOL, Kevin;STADTMUELLER, Heinz;SUN, Qi;TREU, Matthias;WATERSON, Alex;WILDING, Birgit;WUNBERG, Tobias~ 33:US ~31:63/284,754 ~32:01/12/2021;33:US ~31:63/284,778 ~32:01/12/2021

2024/04173 ~ Complete ~54:RXFP1 AGONISTS ~71:Bristol-Myers Squibb Company, Route 206 and Province Line Road, PRINCETON 08543, NJ, USA, United States of America ~72: BHOGADI, Vikram;BILDER, Donna M.;CLARKE, Adam James;FINLAY, Heather;FRIENDS, Todd J.;HEGDE, Subramanya;KUMAR, Sreekantha Ratna;LAWRENCE, R. Michael;LI, Jianqing;MATHUR, Arvind;MYERS, Michael C.;O'MALLEY, Daniel;ORWAT, Michael J.;PABBISETTY, Kumar Balashanmuga;PASUNOORI, Laxman;PINTO, Donald J. P.;POTTURI, Hima Kiran;SHAW, Scott A.;SMITH II, Leon M.;SRINIVAS, Pitani Veera Venkata;SU, Shun;TORA, George O.;VOKITS, Benjamin P.;WURTZ, Nicholas R.~ 33:US ~31:63/273,228 ~32:29/10/2021

2024/04181 ~ Complete ~54:APPARATUS FOR AMPLIFYING COOLING VIA INTERACTION WITH ELECTROMAGNETIC RADIATION AND ANTI-STOKES FLUORESCENCE ~71:SolCold Ltd., 13 HaMazmera, NES ZIYYONA 7404713 , ISRAEL, Israel ~72: FOX, Maayan;SHENHAV, Yaron;TEMPLEMAN, Tzvi~ 33:IL ~31:288642 ~32:02/12/2021

2024/04184 ~ Complete ~54:METHOD FOR PRODUCING ALDEHYDE ~71:MITSUBISHI CHEMICAL CORPORATION, 1-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo, 1008251, Japan ~72: MASASHI MIYAKE;TAKASHI SATO~ 33:JP ~31:2021-193373 ~32:29/11/2021

2024/04190 ~ Complete ~54:SYNTHETIC GLYCOCONJUGATE VACCINE PROTOTYPE AGAINST STREPTOCOCCUS SUIS ~71:UNIVERSITY OF ALBERTA, 10230 Jasper Avenue, Suite 4000, Canada;UNIVERSITÉ DE MONTRÉAL, 2900 boul. Édouard-Montpetit, Canada ~72: GOTTSCHALK, Marcelo;JANA, Manas;LI, Pei-Jhen;LO FIEGO, Marcos;LOWARY, Todd;SEGURA, Mariela;SWEENEY, Ryan~ 33:US ~31:63/263,356 ~32:01/11/2021

2024/04193 ~ Complete ~54:NOVEL IONIZABLE LIPIDS AND LIPID NANOPARTICLES AND METHODS OF USING THE SAME ~71:SAIL BIOMEDICINES, INC., 140 First Street, Suite 601, South Africa ~72: ADHIKARI, Arijit;ADHIKARI, Sanmit;BARTOLOZZI, Alessandra;BOGORAD, Roman;ERDMANN, Roman;HOWE, Alaina;PATEL, Siddharth;PROUDFOOT, John;SALERNO, Dominick~ 33:US ~31:63/264,149 ~32:16/11/2021

2024/04160 ~ Complete ~54:ORAL SOLUTION CONTAINING LISDEXAMFETAMINE AND PROCESS FOR THE PREPARATION THEREOF ~71:PHARMAPLOT PRIVATE COMPANY, 40A KLEISTHENOUS STR., 15344 GERAKAS, ATHENS, GREECE, Greece ~72: DIMITRIOS, Kostakis;SRYRIDON, Mavrokordopoulos~ 33:GR ~31:20230100883 ~32:24/10/2023

2024/04164 ~ Complete ~54:ENTERAL FEEDING DEVICES AND RELATED METHODS OF USE ~71:ALCRESTA THERAPEUTICS, INC., One Newton Executive Park, Suite 100, Newton, Massachusetts, 02462, United States of America ~72: DAVID J BROWN;EDWARD S PARK;GRETA L LORING;KENNETH GARY;MICHIEL CHRISTIAN ALEXANDER VAN VLIET;ROBERT GALLOTTO;WILLEM ROBERT KLAAS SCHOEVAART~ 33:US ~31:62/241,608 ~32:14/10/2015;33:US ~31:15/291,530 ~32:12/10/2016

2024/04155 ~ Provisional ~54:HEVOCS DIGITAL SOLUTIONS ~71:Steven Antoni Beato, 43 Arena North, Royal Ascot, South Africa ~72: Steven Antoni Beato~

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2024/04198 ~ Provisional ~54:STORAGE BOX FOR A VEHICLE ~71:Neveling, Nicolaas Jacobus, 23 Anglers Road, Meerensee, RICHARDSBAAI, 3901, KwaZulu Natal, SOUTH AFRICA, South Africa ~72: Neveling, Nicolaas Jacobus~

2024/04202 ~ Complete ~54:AN ARTIFICIAL INSEMINATION AUXILIARY DEVICE FOR SHEEP BREEDING ~71:Yue Ren, No. 72, Duodi Road, Chengguan District, Lhasa City, Xizang Autonomous Region, 850009, People's Republic of China ~72: Bin Shi;Mengjun Liu;Yue Ren~

2024/04206 ~ Complete ~54:FURNACE WITH LEVEL DETECTION SYSTEM ~71:METIX (PROPRIETARY) LIMITED, 204 Rivonia Road, Morningside, South Africa ~72: HOEK, Riaan;KOORZEN, Eugene William;LOTTER, Gabriel Jacobs~ 33:NL ~31:2035086 ~32:13/06/2023

2024/04208 ~ Complete ~54:A METHOD FOR IMPROVING THE INDUCIBLE ACTIVITY OF BIODERIVED HYDROXYAPATITE BONE ~71:Shanxi University of Chinese Medicine, No. 89, Section 1, Jinci Road, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Bo Han;Jianru Wang;Jing Li;Ya'nan Bu;Yumin Zhang~ 33:CN ~31:202311141436.8 ~32:06/09/2023

2024/04210 ~ Complete ~54:VIBRATION REDUCTION METHOD BASED ON BLASTING VIBRATION PREDICTION TECHNIQUES ~71:China Coal Technology Engineering Group Huaibei Blasting Technology Research Institute Co.,Ltd., No. 150, Dongshan Road, Huaibei City, Anhui Province, People's Republic of China;Chongqing University, No. 174, Shazheng street, Shapingba District, Chongqing City, People's Republic of China ~72: Geng Hongyin;Han Tingliang;Jiang Deyi;Jin Fu;Li Jianxing;Li Qiang;Li Yong;Lin Fei;Pan Xianfeng;Wang Deling;Wang Jifeng;Wang Zhaofeng;Wu Jing;Xia Guang;Xu Haifeng;Yang Zongling;Ye Xin;Yu Weiqing;Zhai Qingcui;Zhang Jican;Zhang Zhigang;Zhao Peng;Zhou Xiaohong~

2024/04215 ~ Complete ~54:INTEGRATED FILAMENT WINDING APPARATUS ~71:CHINA NATIONAL BUILDING MATERIAL GROUP CO., LTD., (Block B) Building 2, Guohai Plaza, No.17 Fuxing Road, Haidian District, Beijing, 100036, People's Republic of China;SINOMA SCIENCE AND TECHNOLOGY (SUZHOU) CO., LTD, No.68 Changyang Street, Suzhou Industrial Park, Suzhou, Jiangsu, 215121, People's Republic of China ~72: CHEN, Chunlu;JI, Zengxiang;MA, Chunhua;YUAN, Zhuowei~ 33:CN ~31:202111440844.4 ~32:30/11/2021

2024/04219 ~ Complete ~54:ENCODING DEVICE, DECODING DEVICE, ENCODING METHOD, AND DECODING METHOD ~71:PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, 2050 W 190TH STREET SUITE 450, TORRANCE, CA 90504, USA, United States of America ~72: EHARA, Hiroyuki;HARADA, Akira;LIM, Chong Soon;NAGISETTY, Srikanth~ 33:JP ~31:2021-195488 ~32:01/12/2021

2024/04226 ~ Complete ~54:PROCESS FOR PRODUCING A POLYESTER HAVING A REDUCED CRYSTALLISATION TEMPERATURE ~71:IFP ENERGIES NOUVELLES, 1 et 4 avenue de Bois-Préau, France;JEPLAN, INC., 12-2 Ogimachi, Kawasaki-ku, Japan ~72: BLANCKE, Guillaume;CHICHE, David;FAVRE, Frederic;LEINEKUGEL LE COCQ, Damien;MEKKI-BERRADA, Adrien~ 33:FR ~31:FR2113248 ~32:10/12/2021

2024/04227 ~ Complete ~54:RESPIRATORY SYNCYTIAL VIRUS RNA VACCINE ~71:SANOFI, 46 Avenue de la Grande, France ~72: CASIMIRO, Danilo;CHIVUKULA, Sudha;DINAPOLI, Joshua;GALLICHAN, William Scott;GOLDMAN, Rebecca L.;GOPANI, Hardip Rajeshbhai;PARRINGTON, Mark;ZHANG, Linong~ 33:US ~31:63/276,233 ~32:05/11/2021;33:EP ~31:22315065.7 ~32:16/03/2022

2024/04235 ~ Complete ~54:TREATMENT ~71:Immunocore Limited, 92 Park Drive, Milton Park, ABINGDON OX14 4RY, OXFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: ABDULLAH, Shaad;DAR, Mohammed;MARSHALL, Shannon~ 33:US ~31:63/285,044 ~32:01/12/2021;33:US ~31:63/374,222 ~32:31/08/2022

2024/04240 ~ Complete ~54:AN EARTH MOVING EQUIPMENT BUCKET CORNER ~71:Sandvik Mining and Construction Australia (Production/Supply) Pty Ltd, Level 5, 135 Coronation Drive, MILTON 4064, QUEENSLAND, AUSTRALIA, Australia ~72: HYVÖNEN, Ilkka;JAVADI, Mehrdad~ 33:EP ~31:21214481.0 ~32:14/12/2021

2024/04244 ~ Complete ~54:LIME-BASED CEMENT EXTENDER COMPOSITIONS, AND ASSOCIATED SYSTEMS AND METHODS ~71:Graymont Western Canada Inc., 200-10991 Shellbridge Way, RICHMOND V6X 3C6, BRITISH COLUMBIA, CANADA, Canada ~72: HARIHARAN, Narain;HYMAN, Katherine;LEIKAM, Jared Ira;LEWIS, Joseph;MCFARLANE, Lucas;ROMANIUK, Nikolas Andrei;TATE, Michael John~ 33:US ~31:63/293,513 ~32:23/12/2021

2024/04251 ~ Complete ~54:METHODS OF TREATING IDIOPATHIC PULMONARY FIBROSIS WITH DEUPIRFENIDONE ~71:PURETECH LYT 100, INC., 6 Tide Street, Boston, Massachusetts, 02210, United States of America ~72: CAMILLA S GRAHAM;CHRISTOPHER C KORTH;ERIC ELENKO;HEATHER A PADEN;JULIE S KROP;LIZA C MICIONI;MICHAEL C CHEN;PAUL ANDREW FORD;SIMON JOHN HATCH;VARUN GARG~ 33:US ~31:63/296,818 ~32:05/01/2022;33:US ~31:63/296,826 ~32:05/01/2022;33:US ~31:63/296,843 ~32:05/01/2022;33:US ~31:63/326,129 ~32:31/03/2022;33:US ~31:63/326,132 ~32:31/03/2022;33:US ~31:63/341,269 ~32:12/05/2022;33:US ~31:63/341,279 ~32:12/05/2022;33:US ~31:63/341,281 ~32:12/05/2022;33:US ~31:63/341,828 ~32:13/05/2022;33:US ~31:63/352,107 ~32:14/06/2022;33:US ~31:63/356,653 ~32:29/06/2022;33:US ~31:63/374,362 ~32:01/09/2022;33:US ~31:63/403,481 ~32:02/09/2022;33:US ~31:63/431,530 ~32:09/12/2022;33:US ~31:63/432,208 ~32:13/12/2022

2024/04196 ~ Provisional ~54:TYRE VALVE EXTENSION ~71:DIPPENAAR, Andries, Stefanus, Frederick, KAREN STRAAT 84, ILLIONDALE, EDENVALE, 1609, SOUTH AFRICA, South Africa ~72: DIPPENAAR, Andries, Stefanus, Frederick~

2024/04201 ~ Complete ~54:A THERMOSTATIC BIRTHING ROOM FOR LAMB BREEDING ~71:Yue Ren, No. 72, Duodi Road, Chengguan District, Lhasa City, Xizang Autonomous Region, 850009, People's Republic of China ~72: Bin Shi;Yue Ren;Zhaxi Yangzong~

2024/04203 ~ Complete ~54:SOIL CARBON SEQUESTRATION ENHANCER FOR DRY FIELD AND PREPARATION METHOD THEREOF ~71:Liaoning Academy of Agricultural Sciences, No. 84 Dongling Road, Shenhe District, Shenyang City, Liaoning Province, 110161, People's Republic of China ~72: GONG Liang;SUI Shijiang;WANG Na;ZHANG Xin~

2024/04205 ~ Complete ~54:METHOD, SYSTEM, AND DEVICE FOR PREDICTING IRRADIATION EMBRITTLEMENT DEGREE, AND READABLE STORAGE MEDIUM ~71:NUCLEAR AND RADIATION SAFETY CENTER, No.54 Hongliannancun, Haidian District, People's Republic of China ~72: CHU, Qibao;FANG, Yonggang;LI, Zhongxun;WANG, Chen;WANG, Qing;ZENG, Zhen~ 33:CN ~31:202311511333.6 ~32:13/11/2023

2024/04217 ~ Complete ~54:NANOMATERIAL COMPOSITIONS AND METHODS OF MAKING THE SAME ~71:DONALDSON COMPANY, INC., 1400 WEST 94th STREET, BLOOMINGTON, MINNESOTA 55431, USA, United States of America ~72: IGNACIO-DE LEON, Patricia, A.;MOODY, Jared, R.;YADAV, Radesh, K.~ 33:US ~31:63/285,903 ~32:03/12/2021

2024/04245 ~ Complete ~54:COMBINATION OF ANTIBODY-DRUG CONJUGATE AND ATR INHIBITOR ~71:AstraZeneca UK Limited, 1 Francis Crick Avenue, Cambridge Biomedical Campus, CAMBRIDGE CB2 0AA, UNITED KINGDOM, United Kingdom;Daiichi Sankyo Company, Limited, 3-5-1, Nihonbashi Honcho, Chuo-ku, TOKYO 103-8426, JAPAN, Japan ~72: ANDERTON, Mark John;LAU, Alan Yin Kai;METTETAL II, Jerome Thomas;PROIA, Theresa Angela;RANDLE, Suzanne Jane;SUNG, Matthew Simon;WALLEZ, Yann~ 33:US ~31:63/294,368 ~32:28/12/2021

2024/04249 ~ Complete ~54:PREPARATION OF TOLERIZING NANOPARTICLES FOR THE TREATMENT OF PEANUT ALLERGY ~71:COUR PHARMACEUTICALS DEVELOPMENT COMPANY INC., 2215 Sanders Road, Suite 425, Northbrook, Illinois, 60062, United States of America ~72: GRETA WODARCYK;JOHN PUISIS;MICHAEL BOYNE;QICHEN XU;SAMANTHA REILLY;TIMOTHY TOBY;ZHIYI LIN~ 33:US ~31:63/282,889 ~32:24/11/2021

2024/04220 ~ Complete ~54:FACILITATING CONTROL OF FLUID OR SLURRY MOVEMENT IN A COLLAPSIBLE TUBE ~71:SEPRO MINERAL SYSTEMS CORP., 101A 9850 201ST STREET, LANGLEY, BRITISH COLUMBIA V1M 4A3, CANADA, Cameroon ~72: MCALISTER, Steven, Alexander;SOCCI, Carlo, Alberto, Maria~ 33:US ~31:63/274,871 ~32:02/11/2021

2024/04232 ~ Complete ~54:PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ROTHWELL, Howard~ 33:GB ~31:2118836.2 ~32:22/12/2021

2024/04200 ~ Complete ~54:MEDICATED SHAMPOO SOAP FOR PREVENTING HAIR LOSS ~71:Zhejiang Chinese Medical University, No.548, Binwen Road, Binjiang District, Hangzhou City, Zhejiang Province, People's Republic of China ~72: Dian Yu;Liting Chen;Rongrong Song;Shenghua Cheng;Ying Yang;Yingying Fang;Yuhao Wang~ 33:CN ~31:2023107485549 ~32:25/06/2023

2024/04207 ~ Complete ~54:A CARTILAGE REPAIR MATERIAL FOR GUIDING TISSUE REGENERATION AND A PREPARATION METHOD THEREOF ~71:Shanxi University of Chinese Medicine, No. 89, Section 1, Jinci Road, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Jianru Wang;Jing Li;Jingruo Wu;Yanmiao Ma;Yumin Zhang~ 33:CN ~31:202311227458.6 ~32:22/09/2023

2024/04211 ~ Complete ~54:ORGANIC WASTEWATER TREATMENT SYSTEM AND TREATMENT METHOD ~71:Huzhou College, No. 1, Bachelor Road, Wuxing District, Huzhou City, Zhejiang Province, 313002, People's Republic of China ~72: Liu Yike;Tang Yaqin;Xu Shunjian~ 33:CN ~31:202410305792.7 ~32:18/03/2024

2024/04218 ~ Complete ~54:ADJUVANT COMPOUNDS AND FORMULATIONS ~71:ADJUVANCE TECHNOLOGIES, INC., 1225 L STREET, SUITE 600, LINCOLN, NE 68508, USA, United States of America ~72: CHAUHAN, Harsh, Vardhan;WENGER, Jared, William~ 33:US ~31:63/277,001 ~32:08/11/2021;33:US ~31:63/351,057 ~32:10/06/2022

2024/04241 ~ Complete ~54:METHOD AND SYSTEM FOR PERMISSION MANAGEMENT ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: MEE, Andrew James;RAND, Ricky Charles~ 33:GB ~31:2201289.2 ~32:01/02/2022;33:GB ~31:2201290.0 ~32:01/02/2022;33:GB ~31:2201291.8 ~32:01/02/2022;33:GB ~31:2201292.6 ~32:01/02/2022

2024/04243 ~ Complete ~54:SELECTIVE PROOF OF EXISTENCE USING ORDERED, APPEND-ONLY DATA STORAGE ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: CLARK, Paul;DAVIES, Jack Owen;RAND, Ricky Charles;WOODS, Alex;ZHANG, Wei~ 33:GB ~31:2204293.1 ~32:25/03/2022;33:GB ~31:2206682.3 ~32:06/05/2022

2024/04247 ~ Complete ~54:ENRICHMENT MEDIUM, PREPARATION METHOD, AND APPLICATION THEREOF ~71:Qingdao Agricultural University, No.700 Changcheng Road, Chengyang District, Qingdao, Shandong, 266109, People's Republic of China ~72: He MA;Hongbo NI;Jianxin WEN;Rui LIU;Xiaoxuan ZHANG~ 33:CN ~31:2024103571997 ~32:27/03/2024

2024/04250 ~ Complete ~54:CRYSTALLINE FORM OF (R)-2-(TERT-BUTYLAMINO)-1-(5-FLUOROPYRIDIN-3-YL)-ETHAN-1-OL HEMI-TARTRATE SALT FOR THE TREATMENT OF HYPERGLYCEMIA AND DIABETES 2 ~71:ATROGI AB, Tomtebodavägen 6, 171 65 Solna, Sweden ~72: BENJAMIN PELCMAN~ 33:GB ~31:2117828.0 ~32:09/12/2021

2024/04195 ~ Provisional ~54:SOLAR WATER HEATER REFLECTIVE PANEL ~71:Johannes Abraham van Wyk, Uitsig, South Africa ~72: Johannes Abraham van Wyk~

2024/04197 ~ Provisional ~54:PLASTIC SHELF SLAT ~71:SUPERCART SOUTH AFRICA (PTY) LTD, 32 Prospecton Road, PROSPECTON, Durban 4115, Kwazulu-Natal, SOUTH AFRICA, South Africa ~72: WOLFE, Michael Castledine~

2024/04212 ~ Complete ~54:AN INTERCROPPING CULTIVATION METHOD FOR IMPROVING THE FEEDING QUALITY OF FORAGE RAPE AND SILAGE MAIZE ~71:Tongliao Institute of Agricultural and Animal Husbandry Sciences, Qianjiadian Town, Horqin District, Tongliao City, Inner Mongolia Autonomous Region, 028000, People's Republic of China ~72: Baoyuan ZHOU;Chao ZHANG;Chunlei WANG;Dan WANG;Hanmiao LIU;Kuan PEI;Lihui GAO;Qi WANG;Tana;Wei ZHENG;Xinbing WANG;Xingtian JIA;Xinyue ZHAO;Yajian LI;Ye FENG~ 33:CN ~31:202410503975X ~32:25/04/2024

2024/04221 ~ Complete ~54:MOBILE ELEMENTS AND CHIMERIC CONSTRUCTS THEREOF ~71:SALIOGEN THERAPEUTICS, INC., 245 FIRST STREET, 18TH FLOOR, CAMBRIDGE, MA 02142, USA, United States of America ~72: CRAIG, Nancy;HIGGINS, Joseph, J.;TABIBIAZAR, Ray~ 33:US ~31:63/275,778 ~32:04/11/2021;33:US ~31:63/331,433 ~32:15/04/2022;33:US ~31:63/350,775 ~32:09/06/2022;33:US ~31:63/408,186 ~32:20/09/2022

2024/04224 ~ Complete ~54:SOIL ANALYSIS METHODS, SYSTEMS AND KITS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: FITZJARRALD, Tamara~ 33:US ~31:63/269,060 ~32:09/03/2022;33:US ~31:63/269,064 ~32:09/03/2022

2024/04233 ~ Complete ~54:A TRANSMITTER MODULE FOR RADIO FREQUENCY CHARGING ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: AL-AMIN, Mohammed~ 33:GB ~31:2117820.7 ~32:09/12/2021

2024/04248 ~ Complete ~54:DAS181 VARIANT COMPOSITIONS ~71:ANSUN BIOPHARMA INC., 11568 Sorrento Valley Road Suite 12, San Diego, California, 92121, United States of America ~72: GEORGE WANG;STEPHEN HAWLEY;TIEJUN LI~ 33:US ~31:63/263,441 ~32:02/11/2021

2024/04252 ~ Complete ~54:SELF-TENSIONING DRUM SCREENING MACHINE ~71:HUBEI FLYING BELL CEREALS & OIL EQUIPMENT CO., LTD., The middle of Guanghua Road, Economic Development zone, Lao Hekou, Xiangyang, People's Republic of China ~72: KE, Ping;ZHOU, Zhili;ZOU, Xiaoli~ 33:CN ~31:202310216865.0 ~32:07/03/2023

2024/04253 ~ Complete ~54:SYSTEMS AND METHODS FOR GENERATION OF HYDROGEN BY IN-SITU (SUBSURFACE) SERPENTINIZATION AND CARBONIZATION OF MAFIC OR ULTRAMAFIC ROCK ~71:OHIO STATE INNOVATION FOUNDATION, 1524 North High Street, Columbus, Ohio 43201, United States of America

~72: DARRAH, Thomas;RAO, Vikram;WHYTE, Colin~ 33:US ~31:63/203,815 ~32:30/07/2021;33:US ~31:17/815,903 ~32:28/07/2022

2024/04209 ~ Complete ~54:MODULAR ASSEMBLY STRUCTURE ~71:JIANGSU VOCATIONAL INSTITUTE OF ARCHITECTURAL TECHNOLOGY, NO. 26, XUEYUAN ROAD, QUANSHAN DISTRICT, XUZHOU CITY, People's Republic of China ~72: DU, BIN;HUANG, YONG;WANG, JUNQIANG;WANG, YAN;XU, SHIYUN~

2024/04228 ~ Complete ~54:LOW DENSITY HOT ROLLED STEEL, METHOD OF PRODUCTION THEREOF AND USE OF SUCH STEEL TO PRODUCE VEHICLE PARTS ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Pascal LORENZINI;Xavier GARAT~

2024/04236 ~ Complete ~54:ORDERED, APPEND-ONLY DATA STORAGE ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: CLARK, Paul;DAVIES, Jack Owen;MEE, Andrew James;RAND, Ricky Charles;WOODS, Alex;ZHANG, Wei~ 33:GB ~31:2204293.1 ~32:25/03/2022;33:GB ~31:2206682.3 ~32:06/05/2022

2024/04238 ~ Complete ~54:ACTIVE POUCHES AND METHODS OF USE ~71:Verdant Technologies, LLC, 1789 Buerkle Circle, ST. PAUL 55110, MN, USA, United States of America ~72: LUNDGREN, Amanda;SARAGENO, Jr., Joseph Frank~ 33:US ~31:63/284,060 ~32:30/11/2021

2024/04239 ~ Complete ~54:RADIO FREQUENCY TRANSMITTER FOR PROVIDING POWER TO AN AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: AL-AMIN, Mohammed;BRUTON, Connor;MUSGRAVE, Damyn~ 33:GB ~31:2117818.1 ~32:09/12/2021

2024/04246 ~ Complete ~54:METHOD AND SYSTEM FOR PERMISSION MANAGEMENT ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: MEE, Andrew James;RAND, Ricky Charles~ 33:GB ~31:2201289.2 ~32:01/02/2022;33:GB ~31:2201290.0 ~32:01/02/2022;33:GB ~31:2201291.8 ~32:01/02/2022;33:GB ~31:2201292.6 ~32:01/02/2022

2024/04204 ~ Complete ~54:PRESTRESSED GLULAM T-BEAM BRIDGE AND CONSTRUCTION METHOD THEREOF ~71:Hunan University of Technology, No. 88, Mount Taishan West Road, Tianyuan District, Zhuzhou City, Hunan Province, People's Republic of China ~72: CAO Lei;LI Zhaochao;LUO Xiaochen;QU Zhangpeng;ZENG Dan;ZHANG Deng;ZHANG Jin;ZHANG Youjie;ZHENG Hui~

2024/04213 ~ Complete ~54:A PREPARATION METHOD FOR MIXED SILAGE AND THE OBTAINED SILAGE ~71:Chunlei WANG, Qianjiadian Town, Horqin District, Tongliao City, Inner Mongolia Autonomous Region, 028000, People's Republic of China;Hanmiao LIU, Qianjiadian Town, Horqin District, Tongliao City, Inner Mongolia Autonomous Region, 028000, People's Republic of China;Tongliao Institute of Agricultural and Animal Husbandry Sciences, Qianjiadian Town, Horqin District, Tongliao City, Inner Mongolia Autonomous Region, 028000, People's Republic of China ~72: Baoyuan ZHOU;Chao ZHANG;Chunlei WANG;Dan WANG;Hanmiao LIU;Kuan PEI;Lihui GAO;Qi WANG;Sarina;Tana;Xinbing WANG;Xingtian JIA;Yajian LI;Yaxuan MENG;Ye FENG~ 33:CN ~31:2024105039779 ~32:25/04/2024

2024/04216 ~ Complete ~54:CONTENTION RESOLUTION FOR NON-TERRESTRIAL NETWORK ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: TURTINEN, Samuli, Heikki;WU, Chunli;YUAN, Ping~

2024/04231 ~ Complete ~54:COLLECTING DEVICE FOR ELECTRONIC-GRADE CHLORINE TRIFLUORIDE ~71:FUJIAN DEL TECHNOLOGY CO., LTD, NO. 6 GONGYE ROAD, JIAOYANG INDUSTRIAL CONCENTRATION, ZONE, JIAOYANG TOWN, SHANGHANG COUNTY LONGYAN, People's Republic of China

~72: CHEN, Biling;HUANG, Yuanling;LIAN, Gang;LUO, Hao;QIU, Guixiang~ 33:CN ~31:2022114096697 ~32:11/11/2022;33:WO ~31:PCT/CN2023/086969 ~32:07/04/2023

2024/04214 ~ Complete ~54:A DYNAMIC PERFORMANCE ANALYSIS METHOD FOR ELECTRIC DRIVE SYSTEM BASED ON 92-DOF MODEL ~71:Zhejiang University of Technology, No. 18 Chaowang Road, Hangzhou City, Zhejiang Province, 310014, People's Republic of China ~72: Xia HUA~

2024/04223 ~ Complete ~54:MULTIVALENT INFLUENZA VACCINES COMPRISING RECOMBINANT HEMAGGLUTININ AND NEURAMINIDASE AND METHODS OF USING THE SAME ~71:SANOFI PASTEUR INC., 1 Discovery Drive, Swiftwater, United States of America ~72: ALEFANTIS, Timothy;BARRO, Mario;BYERS, Anthony;CORTES-GARCIA, Guadalupe;GILBERT, Philippe-Alexandre;KLEANTHOUS, Harold;NAIK, Armaghan;PUGACHEV, Konstantin;SRIDHAR, Saranya;VOGEL, Thorsten;WARREN, William~ 33:US ~31:63/276,284 ~32:05/11/2021

2024/04225 ~ Complete ~54:SOIL ANALYSIS METHODS, SYSTEMS AND KITS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: FITZJARRALD, Tamara~ 33:US ~31:63/269,060 ~32:09/03/2022;33:US ~31:63/269,064 ~32:09/03/2022

2024/04229 ~ Complete ~54:LOW DENSITY HOT ROLLED STEEL, METHOD OF PRODUCTION THEREOF AND USE OF SUCH STEEL TO PRODUCE VEHICLE PARTS ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Pascal LORENZINI;Xavier GARAT~

2024/04237 ~ Complete ~54:ARTICLE FOR USE WITH AN APPARATUS FOR HEATING AEROSOLISABLE MATERIAL ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: FALLON, Gary~ 33:GB ~31:2118571.5 ~32:20/12/2021

2024/04242 ~ Complete ~54:PEPTIDE CONJUGATES OF PEPTIDIC TUBULIN INHIBITORS AS THERAPEUTICS ~71:Cybrexa 4, Inc., 5 Science Park, 395 Winchester Avenue, NEW HAVEN 06511, CT, USA, United States of America ~72: CSENGERY, Johanna Marie;MAGUIRE, Robert John~ 33:US ~31:63/280,409 ~32:17/11/2021

2024/04199 ~ Complete ~54:FISH FEED OF ACACIA PENNATA (L.) FOR FISHES IN-AQUARIA ~71:Nagaland University, Nagaland University, Lumami Headquarters, Zunheboto district, Nagaland, 798627, India ~72: Melevolu Thisa;Prabhakar Maddela;Veto Khesoh~ 33:IN ~31:202431028200 ~32:05/04/2024

2024/04222 ~ Complete ~54:SOLID ELECTROLYTE MATERIALS, PROCESS FOR PRODUCTION AND USES THEREOF ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: ALFF, Harald;ANTONI, Jessica;BLANK-SHIM, Silvia;DANI, Alessandro;FUCHS-WINKLER, Regina;GORMAN, Elisabeth;HUG, Michael;HYING, Christian;JURETZKA, Sabrina;KLINK-TRAN, Huong;KUZNIK, Sabine;KÜSTER, Theresa;LÖFFLER, Frank;MENNERICH, Heiko;MERTLICH, Anne;SCHMIDT, Franz;SCHÄFER, Durdu;SEITZ, Tanja;STADTMÜLLER, Tobias;STENNER, Patrik;SUHR, Silke;TAKATA, Ryo;TECLE, Yikalo-Eyob;WIEGAND, Armin~ 33:EP ~31:21205986.9 ~32:02/11/2021

2024/04230 ~ Complete ~54:SYSTEM AND METHOD FOR VARIABLE-DISTANCE VARIABLE-TRACE HIGH-UNIFORMITY QUENCHING ~71:BEIJING RESEARCH INSTITUTE OF MECHANICAL & ELECTRICAL TECHNOLOGY CO., LTD.CAM, No.18 Xueqing Road, Haidian District, People's Republic of China ~72: Chao JIANG;Decheng WANG;Ping LUO;Wenliang ZHANG;Xianjun LI~ 33:CN ~31:202310512661.1 ~32:08/05/2023

2024/04234 ~ Complete ~54:METHOD AND SYSTEM FOR PERMISSION MANAGEMENT ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: CLARK, Paul;MEE, Andrew James;RAND,

Ricky Charles~ 33:GB ~31:2201289.2 ~32:01/02/2022;33:GB ~31:2201290.0 ~32:01/02/2022;33:GB ~31:2201291.8 ~32:01/02/2022;33:GB ~31:2201292.6 ~32:01/02/2022

. - APPLIED ON 2024/05/31 -

2024/04280 ~ Complete ~54:CROP INPUT APPLICATION APPARATUS, SYSTEMS AND METHODS ~71:MA INDUSTRIES, LLC, 180 Detroit Avenue, Morton, IL, United States of America ~72: ABERLE, Reid;HESTERBERG, Connor;KOCH, Justin;MOORE, Nowell;NAFZIGER, Tyler;NUEST, Steven;SAUDER, Gregg;SAUDER, Timothy;WAREMBURG, Kyle;WELTE, Jonathan~ 33:US ~31:63/107,608 ~32:30/10/2020;33:US ~31:63/138,222 ~32:15/01/2021;33:US ~31:63/149,644 ~32:15/02/2021;33:US ~31:63/260,444 ~32:19/08/2021

2024/04282 ~ Complete ~54:IMMUNOGENIC FUSION PROTEIN COMPOSITIONS AND METHODS OF USE THEREOF ~71:MATRIVAX, INC., c/o Matrivax Research & Development Corp., 22 Boston Wharf Rd, Boston, United States of America ~72: CARTEE, Robert Thompson;KILLEEN, Kevin P.;MORAN, Enda~ 33:US ~31:63/280,908 ~32:18/11/2021

2024/04286 ~ Complete ~54:SYSTEMS AND METHODS FOR INTELLIGENT CONSTRUCTION OF ANTIBODY LIBRARIES ~71:Adimab, LLC, 7 Lucent Drive, LEBANON 03766, NH, USA, United States of America ~72: BARLOW, Kyle Andrew;JAIN, Tushar;VÁSQUEZ, Maximiliano~ 33:US ~31:63/274,394 ~32:01/11/2021

2024/04310 ~ Complete ~54:BCL-2 INHIBITORS ~71:EIL THERAPEUTICS, INC., 12730 High Bluff Drive, Suite 100, United States of America ~72: ABAGYAN, Ruben;IVACHTCHENKO, Alexandre Vasilievich;KYSIL, Volodymyr;PARCHINSKY, Vladislav Zenonovich;PUSHECHNIKOV, Alexei;SAVCHUK, Nikolay~ 33:US ~31:63/294,646 ~32:29/12/2021;33:US ~31:63/415,203 ~32:11/10/2022

2024/04281 ~ Complete ~54:METHOD FOR BUTT-WELDING A STEEL PART AND ASSOCIATED STEEL PART ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Ivan VIAUX;Jean-François CANOURGUES;Sadok GAIED;Sylvie ROUSSILLON~ 33:IB ~31:PCT/IB2021/061826 ~32:16/12/2021

2024/04288 ~ Complete ~54:SYSTEM AND METHOD FOR WARMKEEPING SUB-CRITICAL STEAM GENERATOR ~71:General Electric Technology GmbH, Brown Boveri Strasse 8, BADEN 5400, SWITZERLAND, Switzerland ~72: MAYER, Ralph~ 33:US ~31:17/560,587 ~32:23/12/2021

2024/04300 ~ Complete ~54:CONSISTENT SIDELINK LISTEN BEFORE TALK FAILURE ~71:InterDigital Patent Holdings, Inc., 200 Bellevue Parkway, Suite 300, WILMINGTON 19809, DE, USA, United States of America ~72: ALFARHAN, Faris;DENG, Tao;FREDA, Martino M.;HOANG, Tuong Duc;LEE, Moon-il;TOOHER, Patrick J.~ 33:US ~31:63/275,354 ~32:03/11/2021;33:US ~31:63/388,030 ~32:11/07/2022

2024/04307 ~ Complete ~54:METHOD AND SYSTEM FOR MEASURING THE KINEMATIC VISCOSITY OF A FREE FLUID STREAM ~71:Saint-Gobain Isover, Tour Saint-Gobain, 12 Place de l'Iris, COURBEVOIE 92400, FRANCE, France ~72: BARBA ROSSA, Guillaume;JANIAUD, Eric;OUERGHEMMI, Ezzeddine;ZAMI-PIERRE, Frédéric~ 33:EP ~31:EP21215695 ~32:17/12/2021

2024/04371 ~ Complete ~54:PREPARATION METHOD FOR GLUFOSINATE AMMONIUM ~71:GUANGAN LIER CHEMICAL CO., LTD., Xinqiao Industrial Park, Guangan Economic and Technological Development Zone, Guangan, Sichuan, 638000, People's Republic of China;LIER CHEMICAL CO., LTD., No. 327, South of Mianzhou Avenue, Mianyang Economic and Technological Development Zone, Mianyang, Sichuan, 621000, People's Republic of China ~72: KE CHENG;LEI ZHOU;MIN XU;WEI ZENG;YINGSUI YIN;YONGJIANG LIU~ 33:CN ~31:202010064268.7 ~32:20/01/2020

2024/04291 ~ Complete ~54:A HAMMERING DEVICE AND A METHOD FOR OPERATING A HAMMERING DEVICE ~71:Fractum ApS, Erritsø Møllebanke 11, FREDERICIA 7000, DENMARK, Denmark ~72: STOKHOLM, Thorkild Duusgaard~

2024/04292 ~ Complete ~54:COARSE FIBER COMPOSITION ~71:Duynie Holding B.V., Handelsweg 36-38, NIJMEGEN 6541 , THE NETHERLANDS, Netherlands ~72: LOMMERS, Marcel;MEIJER, Jurgen;VAN DEN ELZEN, Joost;VERHOEK, Tom;ZOETENDAAL, Joris~ 33:BE ~31:2021/5936 ~32:02/12/2021

2024/04295 ~ Complete ~54:ANTI-MUTANT CALRETICULIN (CALR) ANTIBODIES AND USES THEREOF ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: BUONPANE, Rebecca A.;CELIK, Hamza;DELLER, Marc C.;LEI, Hsiang-Ting;MAYES, Patrick;MCQUIRTER, Leslie Brooke Epling;NASTRI, Horacio G.;REIS, Edimara S.;STEWART, Shaun M.;WASS, Brittney Melissa;ZHAO, Yonghong;ZHOU, Jing~ 33:US ~31:63/287,394 ~32:08/12/2021;33:US ~31:63/288,479 ~32:10/12/2021;33:US ~31:63/421,052 ~32:31/10/2022

2024/04299 ~ Complete ~54:AEROSOL GENERATING DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BURGESS, Jonathan;DAVIS, Peter;KUZMICKA, Sylwia;MCGRATH, Conor~ 33:GB ~31:2117352.1 ~32:01/12/2021

2024/04301 ~ Complete ~54:COMPOSITIONS AND METHODS FOR THE MODULATION OF BETA CHAIN-MEDIATED IMMUNITY ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: GANESAN, Rajkumar;GREWAL, Iqbal S.;HANSEN, Michael Riis;SINGH, Sanjaya~ 33:US ~31:63/274,430 ~32:01/11/2021;33:US ~31:63/274,446 ~32:01/11/2021;33:US ~31:63/274,449 ~32:01/11/2021

2024/04306 ~ Complete ~54:ELECTRONIC VAPOUR PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MUSGRAVE, Damyn;SEARS, Stephen;SHORT, Jason;WOOD, Jason~ 33:US ~31:63/265,651 ~32:17/12/2021;33:US ~31:63/265,654 ~32:17/12/2021;33:US ~31:63/265,655 ~32:17/12/2021;33:US ~31:63/265,656 ~32:17/12/2021;33:GB ~31:2209031.0 ~32:20/06/2022;33:GB ~31:2209040.1 ~32:20/06/2022;33:GB ~31:2209044.3 ~32:20/06/2022;33:GB ~31:2209050.0 ~32:20/06/2022;33:US ~31:63/383,895 ~32:15/11/2022

2024/04311 ~ Complete ~54:A CONTAINED DRUM DISCHARGE SYSTEM AND METHOD FOR TOXIC POWDERY MATERIALS ~71:HEGDE, Shreepad, INDIA, INDIA, India ~72: HEGDE, Shreepad~ 33:IN ~31:202141047303 ~32:19/10/2021

2024/04268 ~ Complete ~54:A MOUNTAIN ECOLOGICAL RESTORATION DEVICE AND RESTORATION METHOD ~71:Gansu Province Academy of Qilian Water Resource Conservation Forests Research Institute, No.3 East Ring Road, Ganzhou District, Zhangye City, Gansu Province, 734000, People's Republic of China ~72: Bin WANG;Juping FAN;Shunli WANG;Xiaohu YANG;Xiaoping SHI;Yanxia WANG;Yin MIAO~ 33:CN ~31:2024106212163 ~32:20/05/2024

2024/04274 ~ Complete ~54:HIGH-FLAME-RETARDANT B1-LEVEL DIGITAL COMMUNICATION CABLE AND PREPARATION METHOD THEREOF ~71:Jiangsu Hengtong Wire & Cable Technology Co., Ltd., No.88 Hengtong Avenue, Qidu Town, Wujiang District, Suzhou, People's Republic of China ~72: Bo ZHANG;Danfeng CAI;Jiaona XI;Xiaolei ZENG;Yu WANG~ 33:CN ~31:2023107462941 ~32:25/06/2023

2024/04283 ~ Complete ~54:LIGATING CLIP FOR CONTINUOUS FIRING ~71:HangZhou Sunstone Technology Co.,Ltd., 2F Building 1, #460 Fucheng Rd, Qiantang New Area,Hangzhou, People's Republic of China ~72: CHEN,Xiaorong;CHEN,Xiongquan;CHEN,Yuzhu;HUANG,Hongjing;MA,Yanli;MEI,Dongqiu;SHI,Lei;WENG,Yaxue ~ 33:CN ~31:202210297955.2 ~32:24/03/2022;33:WO ~31:PCT/CN2022/105689 ~32:14/07/2022

2024/04289 ~ Complete ~54:ELECTRONIC VAPOUR PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MUSGRAVE, Damyn;SEARS, Stephen;SHORT, Jason;WOOD, Jason~ 33:US ~31:63/265,651 ~32:17/12/2021;33:US ~31:63/265,654 ~32:17/12/2021;33:US ~31:63/265,655 ~32:17/12/2021;33:US ~31:63/265,656 ~32:17/12/2021;33:GB ~31:2209031.0 ~32:20/06/2022;33:GB ~31:2209040.1 ~32:20/06/2022;33:GB ~31:2209044.3 ~32:20/06/2022;33:GB ~31:2209050.0 ~32:20/06/2022;33:US ~31:63/383,895 ~32:15/11/2022

2024/04297 ~ Complete ~54:CARTOMISER ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: DANIELS, Christopher;ROTHWELL, Howard~ 33:GB ~31:2118793.5 ~32:22/12/2021

2024/04302 ~ Complete ~54:CORTICOSTERIOD REDUCTION IN TREATMENT WITH ANTI-CD38 ANTIBODIES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: HELLEMANS, Peter;QI, Ming~ 33:US ~31:63/275,157 ~32:03/11/2021;33:US ~31:63/280,791 ~32:18/11/2021;33:US ~31:63/288,785 ~32:13/12/2021;33:US ~31:63/394,726 ~32:03/08/2022

2024/04257 ~ Provisional ~54:A STORAGE DEVICE ~71:FOURIE, Grant Anthony, 82 Kanonnier Cr, Kanonberg, South Africa ~72: FOURIE, Grant Anthony~

2024/04269 ~ Complete ~54:A METHOD FOR DETERMINING THE PERMEABILITY AND STRENGTH INDEX OF SAND BASED ON PARTICLE MORPHOLOGY PARAMETERS ~71:Xi'an University of Technology, No.5, Jinhua South Road, Beilin District, Xi'an, Shaanxi, 710048, People's Republic of China ~72: Caihui ZHU;Letian ZHAI;Li YIN;Sen PENG;Shengnan FANG;Yi LIU;Yunfeng MA;Zhenghong LIU;Zhuqing LI~ 33:CN ~31:2024105816787 ~32:11/05/2024

2024/04273 ~ Complete ~54:2-(ARYL-2-YL) MORPHOLINE AND DEUTERATED DERIVATIVE THEREOF, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF ~71:JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., Economic and Technological Development Zone, People's Republic of China;SHANGHAI HANSOH BIOMEDICAL CO., LTD., Building 2, No. 3728 Jinke Road, Zhangjiang Hi-Tech Park, People's Republic of China ~72: DENG, Haining;HUANG, Zhiqiang;LI, Kailong;SU, Yidong;YU, Wensheng;ZHOU, Xiaohan~ 33:CN ~31:202111301874.7 ~32:04/11/2021;33:CN ~31:202210065986.5 ~32:20/01/2022;33:CN ~31:202210066119.3 ~32:20/01/2022;33:CN ~31:202210398665.7 ~32:15/04/2022;33:CN ~31:202211104724.1 ~32:09/09/2022;33:CN ~31:202211105290.7 ~32:09/09/2022

2024/04279 ~ Complete ~54:CROP INPUT APPLICATION APPARATUS, SYSTEMS AND METHODS ~71:MA INDUSTRIES, LLC, 180 Detroit Avenue, Morton, IL, United States of America ~72: ABERLE, Reid;HESTERBERG, Connor;KOCH, Justin;MOORE, Nowell;NAFZIGER, Tyler;NUEST, Steven;SAUDER, Gregg;SAUDER, Timothy;WAREMBURG, Kyle;WELTE, Jonathan~ 33:US ~31:63/107,609 ~32:30/10/2020;33:US ~31:63/138,222 ~32:15/01/2021;33:US ~31:63/149,644 ~32:15/02/2021;33:US ~31:63/260,444 ~32:19/08/2021

2024/04285 ~ Complete ~54:STENT-LIKE CATHETER FOR ISOLATING A REGION IN A HOLLOW ORGAN OF A MAMMAL, AND SYSTEM BASED ON THE CATHETER ~71:PANDICA LTD, 22 Great James Street, United Kingdom ~72: ANISIMOV, Sergey Vladimirovich;GRANSTREM, Oleg Konstantinovich;KASHINTSEV, Aleksei Arievich;PROUTSKI, Vitaly Yurievich~

2024/04304 ~ Complete ~54:HETEROCYCLIC COMPOUNDS AS GCN2 AND PERK KINASE INHIBITORS ~71:Deciphera Pharmaceuticals, LLC, 200 Smith Street, WALTHAM 02451, MA, USA, United States of America ~72: AHN, Yu Mi;AL-ANI, Gada;FLYNN, Daniel L.;JAVED, Salim;KEARNEY, Patrick;LE BOURDONNEC, Bertrand;STOLTZ, Kristen;ZWICKER, Jeffery~ 33:US ~31:63/285,833 ~32:03/12/2021;33:US ~31:63/348,557 ~32:03/06/2022

2024/04308 ~ Complete ~54:HIGH-VOLTAGE WINDING AND METHOD FOR PREPARING HIGH-VOLTAGE WINDING ~71:JIANGSU SHEMAR ELECTRIC CO., LTD., No.66 Haiwei Road, Su-tong Science and Technology Park Nantong, People's Republic of China ~72: LIU, Chao;MA, Bin;MA, Tingting;ZHANG, Xiaorong;ZHANG, Xinxin;ZHOU, Shuchen~ 33:CN ~31:202111644185.6 ~32:29/12/2021;33:CN ~31:202111644257.7 ~32:29/12/2021;33:CN ~31:202111647803.2 ~32:29/12/2021;33:CN ~31:202111647805.1 ~32:29/12/2021

2024/04272 ~ Complete ~54:BISPECIFIC CD16A BINDERS ~71:AFFIMED GMBH, KOROS building, Gottlieb-Daimler-Strasse 2, Germany ~72: DULAT, Holger;KOCH, Joachim;PAHL, Jens;ROSS, Thorsten;SIEGLER, Jana-Julia~ 33:EP ~31:21206329.1 ~32:03/11/2021;33:EP ~31:21213774.9 ~32:10/12/2021;33:EP ~31:22187329.2 ~32:27/07/2022;33:US ~31:63/369,602 ~32:27/07/2022

2024/04275 ~ Complete ~54:METHOD AND DEVICE FOR PREPARING TRIVALENT CHROMIUM SALT BY ELECTROCHEMICAL OXIDATION OF FERROCHROME IN ACIDIC SYSTEM
~71:Qinghai Institute of Salt Lakes, Chinese Academy of Sciences, 18 Xinning Road, Xining City, Qinghai Province, 810008, People's Republic of China ~72: DONG Yaping;FENG Haitao;LI Bo;LI Shuqi;LI Wu;LI Xinqian;NIU Zhengrong~ 33:CN ~31:202211671770X ~32:23/12/2022

2024/04276 ~ Complete ~54:METHOD FOR DIRECTLY PREPARING TRIVALENT CHROMIUM COMPOUND BY ELECTROCHEMICAL OXIDATION OF FERROCHROME
~71:Qinghai Institute of Salt Lakes, Chinese Academy of Sciences, 18 Xinning Road, Xining City, Qinghai Province, 810008, People's Republic of China ~72: DONG Yaping;FENG Haitao;LI Bo;LI Wu;NIU Zhengrong~ 33:CN ~31:2022116717678 ~32:23/12/2022

2024/04294 ~ Complete ~54:SPLICE SWITCHER ANTISENSE OLIGONUCLEOTIDES WITH MODIFIED BACKBONE CHEMISTRIES ~71:QurAlis Corporation, 100 Cambridgepark Drive, Suite 500, CAMBRIDGE 02140, MA, USA, United States of America ~72: BROWN, Duncan;ELBAUM, Daniel;HINCKLEY, Sandra;KAMELGARN, Marisa Elizabeth~ 33:US ~31:63/285,628 ~32:03/12/2021;33:US ~31:63/285,631 ~32:03/12/2021;33:US ~31:63/285,786 ~32:03/12/2021;33:US ~31:63/285,933 ~32:03/12/2021;33:US ~31:63/350,206 ~32:08/06/2022;33:US ~31:63/398,987 ~32:18/08/2022;33:US ~31:63/398,992 ~32:18/08/2022

2024/04303 ~ Complete ~54:SYSTEMS AND METHODS FOR PRODUCING SULFURIC ACID OR LIQUEFIED SULFUR DIOXIDE ~71:Chemetics Inc., #200 - 2930 Virtual Way, VANCOUVER V5M 0A5, BRITISH COLUMBIA, CANADA, Canada ~72: DIJKSTRA, Rene;KIDON, Dominika~ 33:US ~31:63/285,944 ~32:03/12/2021

2024/04305 ~ Complete ~54:COMPOSITIONS AND METHODS FOR EXPRESSING ANTIGENS ON CELL MEMBRANE ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: HAUGE, Linda Helena;HAUGLAND, Oyvind;KARLSEN, Marius Andre de Feijter;RODE, Marit~ 33:US ~31:63/291,565 ~32:20/12/2021

2024/04262 ~ Complete ~54:PARENTERAL FORMULATION OF A GLUCAGON-LIKE PEPTIDE-1 ANALOGUE AND METHOD FOR PREPARATION THEREOF ~71:PHARMATHEN S.A., 6 DERVENAKION STREET, 15351 PALLINI ATTIKIS, GREECE, Greece ~72: FOUSTERIS, Manolis;KALASKANI, Anastasia;KAPETANAKIS, Antonis;KARAVAS, Evangelos;KOUTRI, Ioanna;KOUTRIS, Efthymios;PSARROU, Areti;SAMARA, Vasiliki~

2024/04267 ~ Complete ~54:RADIO-FREQUENCY ENERGY HARVESTING ~71:AFRICAN NEW ENERGIES LIMITED, Villa Florita, East Road, St George’s Hill, United Kingdom ~72: KHAN, Saad Saleem;LARKIN, Stephen;NAVEED, Muhammad Fahad;OMAR, Muhammad;RAW, Brendon;TAHA, Muhammad;USMAN, Muhammad~

2024/04278 ~ Complete ~54:CEA ASSAY FOR PATIENT SELECTION IN CANCER THERAPY ~71:SANOFI, 46 Avenue de la Grande, France ~72: BAUCHET, Anne-Laure;BENSFIA, Samira;CHADJAA, Mustapha;COMBEAU,

Céline;DEMERS, Brigitte;HENRY, Christophe~ 33:EP ~31:21306692.1 ~32:02/12/2021;33:US ~31:63/385,375 ~32:29/11/2022

2024/04254 ~ Provisional ~54:A SKINCARE COMPOSITION ~71:NAIDOO, Ashley, 1096 HOWICK FALLS AVENUE, WATERFALL COUNTRY ESTATE, COUNTRY ESTATE DRIVE, MIDRAND, 1674, SOUTH AFRICA, South Africa;NAIDOO, Rajendra, 9 PINEWAY PLACE, MORNINGSIDE, SANDTON, 2196, SOUTH AFRICA, South Africa;PILLAY, Lushen, 175 BARBET AVENUE, 59 MILLENNIUM VILLAGE, HALFWAY GARDENS, GAUTENG, 0037, SOUTH AFRICA, South Africa ~72: DAYA, Roheet;NAIDOO, Ashley;NAIDOO, Rajendra;PILLAY, Lushen~

2024/04260 ~ Complete ~54:EXPANDABLE BULLET ~71:PERAMCO (PTY) LTD, 907 Hertzog Street, Rietfontein, South Africa ~72: NEL, Geral-dique;OBERHOLSTER, Alliwyn Johannes~ 33:ZA ~31:2023/05968 ~32:06/06/2023

2024/04346 ~ Provisional ~54:AUTOMATED SYSTEM FOR RUNNER IDENTIFICATION AND VIDEO PROCESSING UTILIZING OPTICAL CHARACTER RECOGNITION, DATABASE MATCHING, AND INTEGRATION WITH STRAVA AND OBS ~71:Lubabalo Nomatye, 2 Reedbuck Road, Elands Mews, South Africa ~72: Lubabalo Nomatye;Lubabalo Nomatye~

2024/04261 ~ Complete ~54:MULTIFUNCTIONAL CROP STRAW RETURNING DEVICE AND LAYERED RETURNING METHOD ~71:Liaoning Academy of Agricultural Sciences, No. 84 Dongling Road, Shenhe District, Shenyang City, Liaoning Province, 110161, People's Republic of China ~72: GONG Liang;NIU Shiwei;WANG Na~

2024/04264 ~ Complete ~54:ELECTRONICALLY CONTROLLED PRODUCT PACKAGING MOLDING DEVICE ~71:Ruiwu MA, No. 115, Qinpengtun, Qinma Village, Zhoulu Town, Mashan County, Nanning, Guangxi, People's Republic of China ~72: Ruiwu MA~ 33:CN ~31:2024101541060 ~32:04/02/2024

2024/04271 ~ Complete ~54:BISPECIFIC CD16A BINDERS ~71:AFFIMED GMBH, KOROS building, Gottlieb-Daimler-Strasse 2, Germany ~72: DULAT, Holger;KOCH, Joachim;PAHL, Jens;ROSS, Thorsten;SIEGLER, Jana-Julia~ 33:EP ~31:21206329.1 ~32:03/11/2021;33:EP ~31:21213774.9 ~32:10/12/2021;33:EP ~31:22187301.1 ~32:27/07/2022

2024/04277 ~ Complete ~54:PIPE APPARATUS, COUPLING DEVICES, AND METHODS ~71:LUBRIZOL ADVANCED MATERIALS, INC., 9911 Brecksville Road, United States of America ~72: GUHDE, Brian;KACIK, Mark;MIDLIK, Andrew J.;ZOOK, Christopher D.~ 33:US ~31:63/290,773 ~32:17/12/2021

2024/04312 ~ Provisional ~54:POCKET TOILET PAPER ~71:MICHAEL GRUNYUZA, 504 RUSSELLS PLACE, SOPHIE DE BRUYN STREET, South Africa ~72: MICHAEL GRUNYUZA~

2024/04270 ~ Complete ~54:A CALCULATION METHOD FOR PRESSURE AMPLIFICATION EFFECT OF TUNNEL SURROUNDING SOIL UNDER DRY-WET CYCLE ACTION IN LOESS STRATUM ~71:Xi’an University of Technology, Beilin District, Xi' an City, Shaanxi Province, 710048, People's Republic of China ~72: Caihui ZHU;Haonan HE;Jiahui LI;Li YIN;Sen PENG;Shuyi MENG;Yu WANG;Yubo LI;Zhenghong LIU~ 33:CN ~31:2024105816804 ~32:11/05/2024

2024/04263 ~ Complete ~54:SAFE STORAGE METHOD OF DISTRIBUTED ACCOUNTING INFORMATION BASED ON BLOCKCHAIN ~71:ZHOU Xiaohe, No.35-17, Sima Road, Zhifu District, Yantai City, Shandong, People's Republic of China ~72: LI Jinyang;LUAN Fengming;ZHOU Xiaohe~

2024/04266 ~ Complete ~54:HEALTH-NOURISHING TONIC WINE AND PREPARARTION METHOD THEREOF ~71:WU, Huanxing, NO. 159, ZHANGQIAO VILLAGE, FEIYUN STREET, People's Republic of China ~72: WU, Huanxing~

2024/04265 ~ Complete ~54:AUTOMATIC SEEDLING RAISING AND SOWING ALL-IN-ONE MACHINE ~71:CHENGDU AERONAUTIC POLYTECHNIC, NO.699, Checheng East 7th Road, Longquanyi District, Chengdu City, Sichuan Province, People's Republic of China;CHENGDU VOCATIONAL & TECHNICAL COLLEGE OF INDUSTRY, No.818, Da'an Road, Zhengxing Town, Chengdu District, Tianfu New Area, Chengdu City, Sichuan Province, People's Republic of China;Nanchong Innovation Mulberry Industry Technology Research Institute, No.1, Zaixing Street, Industrial Park, Jialing District, Nanchong City, Sichuan Province, People's Republic of China;Sericultural Research Institute of Sichuan Academy of Agricultural Sciences, No.97, Hezhong Street, Shunqing District, Nanchong City, Sichuan Province, People's Republic of China;Shangzhi Agricultural Machinery Equipment Limited Company (NTCO.LTD) of Nanchong, Sichuan, No.523, Yingkang South Road, Yingxi Street, Shunqing District, Nanchong City, Sichuan Province, People's Republic of China;Sichuan Jieneng Drying Equipment Co., Ltd., No.1902, Floor 19, Unit 1, Building 1, No.401, Sheng'an Street, Hi-Tech District, Chengdu City, Sichuan Province, People's Republic of China;Sichuan Nanchong Silkworm Research Co., Ltd., Section 2, Xianjiang Dongbei Road, Gaoping District, Nanchong City, Sichuan Province, People's Republic of China;Sichuan Shanghao Tea Industry Co., Ltd., No.1, Zaixing Street, Industrial Park, Jialing District, Nanchong City, Sichuan Province, People's Republic of China ~72: CAO Ningning;CAO Qingming;GUO Qingshan;HE Guangzan;HU Guangrong;HU Junhua;LI Kexian;LIU Binbin;LIU Xingyu;SHEN Gang;SHEN Yan;SHI Hongkang;WU Jianmei;XIE Ying;YE Jingjing~

2024/04284 ~ Complete ~54:METHOD FOR BUTT-WELDING A STEEL PART AND ASSOCIATED STEEL PART ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Jean-François CANOURGUES;Sadok GAIED~ 33:IB ~31:PCT/IB2021/061816 ~32:16/12/2021

2024/04287 ~ Complete ~54:METHODS OF TREATING CANCERS AND ENHANCING EFFICACY OF GPRC5DXCD3 BISPECIFIC ANTIBODIES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: GOLDBERG, Jenna;PRIOR, Thomas J.;VERONA, Raluca;WANG LIN, Shun Xin;WEISS, Brendan~ 33:US ~31:63/275,356 ~32:03/11/2021

2024/04290 ~ Complete ~54:ANTIMALARIAL AGENTS ~71:MSD R&D (China) Co., Ltd., L2-13, No. 21, Rongda Road, Chaoyang District, BEIJING, CHINA (P.R.C.), People's Republic of China;Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States of America;The Walter and Eliza Hall Institute of Medical Research, 1G Royal Parade, PARKVILLE 3052 , VICTORIA, AUSTRALIA, Australia ~72: DE LERA RUIZ, Manuel;GUO, Zhuyan;GUTIERREZ BONET, Alvaro;HODDER, Anthony;HU, Bin;KELLY III, Michael J.;LEI, Zhiyu;MCCAULEY, John A.;NANTERMET, Philippe;ZHAN, Dongmei;ZHAO, Lianyun~ 33:IB ~31:2021/136177 ~32:07/12/2021;33:US ~31:63/397,614 ~32:12/08/2022

2024/04293 ~ Complete ~54:PARP1 INHIBITORS ~71:Synnovation Therapeutics, Inc., 200 Powder Mill Road E500-1801, WILMINGTON 19803, DE, USA, United States of America ~72: BAI, Yu;LI, Yu;PAN, Jun;WU, Liangxing;YANG, Jeffrey;YAO, Wenqing;ZHENG, Hewen~ 33:US ~31:63/292,903 ~32:22/12/2021;33:US ~31:63/327,228 ~32:04/04/2022;33:US ~31:63/403,459 ~32:02/09/2022

2024/04256 ~ Provisional ~54:A METHOD OF ESCALATING SOCIAL MEDIA CONNECTIONS THROUGH AN ONLINE MAP GAME APPLICATION ~71:Passplane, 346B Edward str, Waterkloof, South Africa ~72: Hjalmar Douglas Fuchs~

2024/04258 ~ Complete ~54:DIRECT-DRIVE OIL-DRIVEN FIXED-SPEED VARIABLE-PITCH MULTI-ROTOR UNMANNED AERIAL VEHICLE AND CONTROL METHOD THEREOF ~71:Hainan Aerial Science and

Technology Co, Ltd., Seventh floor, Building A, Scientific Research Office Building, Comprehensive Service Center, Yazhou Bay Deep Sea Science and Technology City, Yazhou District, Sanya City, Hainan Province, People's Republic of China;Hainan Tropical Ocean University, No.1 Yucai Road, Jiyang District, Sanya City, Hainan Province, People's Republic of China;Tsinghua University, No. 30, Shuangqing Road, Haidian District, Beijing, People's Republic of China ~72: CHEN Hao;DU Jun;HUANG Hai;REN Yong;XIE Wei;ZHAO Kaifeng~

2024/04259 ~ Complete ~54:DEEPGBM-BASED VEHICLE COLLISION DETECTION METHOD AND SYSTEM BASED ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: WANG, Chong;YAN, Xiaoyan;ZHANG, Jingpu;ZHAO, Junmin~

2024/04296 ~ Complete ~54:TREATMENT OF NEUROLOGICAL DISEASES USING MODULATORS OF UNC13A GENE TRANSCRIPTS ~71:QurAlis Corporation, 100 Cambridgepark Drive, Suite 500, CAMBRIDGE 02140, MA, USA, United States of America ~72: BROWN, Duncan;ELBAUM, Daniel;HINCKLEY, Sandra;KAMELGARN, Marisa Elizabeth~ 33:US ~31:63/285,786 ~32:03/12/2021;33:US ~31:63/350,206 ~32:08/06/2022;33:US ~31:63/398,987 ~32:18/08/2022

2024/04298 ~ Complete ~54:METHODS OF TREATING CANCERS AND ENHANCING EFFICACY OF BCMAXCD3 BISPECIFIC ANTIBODIES ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: GOLDBERG, Jenna;JASIELEC, Jagoda;VERONA, Raluca;WEISS, Brendan~ 33:US ~31:63/275,368 ~32:03/11/2021;33:US ~31:63/288,279 ~32:10/12/2021;33:US ~31:63/348,036 ~32:02/06/2022

2024/04309 ~ Complete ~54:INHIBITORS OF MENIN-MLL INTERACTION ~71:BALA THERAPEUTICS, INC., 12730 High Bluff Drive, Suite 100, United States of America ~72: ABAGYAN, Ruben;IVACHTCHENKO, Alexandre Vasilievich;KHVAT, Alexander;PARCHINSKY, Vladislav Zenonovich;SAVCHUK, Nikolay~ 33:US ~31:63/287,716 ~32:09/12/2021;33:US ~31:63/306,399 ~32:03/02/2022;33:US ~31:63/397,322 ~32:11/08/2022

2024/04255 ~ Provisional ~54:SELF INFLATING FLOATATION ASSISTANCE DEVICE ~71:ATLANTIS SPECIALIST TECHNOLOGIES PROPRIETARY LIMITED, Unit 5 and 6, Casadobe Park 1, London Circle, Brackengate Business Park, Brackenfell 7560, SOUTH AFRICA, South Africa ~72: DUMONT, Terence Paul~

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2024/04320 ~ Complete ~54:A NETWORK INFORMATION SECURITY HOST INSTALLATION CABINET ~71:Anhui Vocational College of Defense Technology, No.56 Meishan Middle Road, Lu'an City, Anhui Province, People's Republic of China ~72: Cai Zhengbao~

2024/04338 ~ Complete ~54:INFORMATION TRANSMISSION METHOD, 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: LI, Yong;LU, Zhaohua;WANG, Yuxin;WU, Hao~ 33:CN ~31:202111301957.6 ~32:04/11/2021

2024/04343 ~ Complete ~54:A NON-SWALLOWED, ANTACID CHEWING GUM PRODUCT, A PROCESS FOR ITS PREPARATION AND USES THEREOF ~71:CHEMO RESEARCH, S.L., Manuel Pombo Angulo, 28 3ª y 4ª planta, 28050, Madrid, Spain ~72: JOSÉ MIGUEL RIZO;LAURA VICEDO~ 33:EP ~31:21383196.9 ~32:22/12/2021

2024/04345 ~ Complete ~54:AN EXTENDED RELEASE PHARMACEUTICAL COMPOSITION OF CLOZAPINE ~71:INTAS PHARMACEUTICALS LTD., Corporate House, Near Sola Bridge S. G. Highway, Thaltej, Ahmedabad

- 380054, Gujarat, India ~72: ASHISH SEHGAL;KAVAN PANDYA;PIYUSH KANSAGRA;RIKIN PATEL;SATYAVAN DHAVALE~ 33:IN ~31:202121058300 ~32:15/12/2021

2024/04316 ~ Provisional ~54:ZOOMIY: ADVANCED ROAD SAFETY AND NAVIGATION SYSTEM ~71:Delight Phefadu, 1027 Kutlwano Street, Pudimoe, South Africa;Mogomotsi Boitse, 1027 Kutlwano Street, Pudimoe, South Africa ~72: Delight Phefadu;Mogomotsi Boitse~

2024/04319 ~ Provisional ~54:METHODS FOR REPAIRING POTHOLES IN ROADS ~71:MACDONALD, Alan Cameron, 43 Alpina Road, Claremont, South Africa ~72: MACDONALD, Alan Cameron~

2024/04321 ~ Complete ~54:SOUND INSULATION BOARD FIXING DEVICE FOR ROADS AND BRIDGES ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: LI, Hui;LV, Dawei;WANG, Ke;YAO, Liyang;ZHANG, Huiyuan;ZHANG, Yongcun~

2024/04334 ~ Complete ~54:METHOD FOR EVALUATING THE HYDROGEN CONTENT IN A STEEL SHEET ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Thomas DIEUDONNE~ 33:IB ~31:PCT/IB2021/061904 ~32:17/12/2021

2024/04341 ~ Complete ~54:A PROCESS AND AN APPARATUS FOR PRODUCING METHANOL FROM BLACK LIQUOR ~71:Andritz Oy, Tammasaarenkatu 1, HELSINKI 00180, FINLAND, Finland ~72: CHENNA, Naveen;GREIS, Otto;PESOLA, Aino;TERVOLA, Pekka~ 33:FI ~31:20216183 ~32:18/11/2021

2024/04412 ~ Complete ~54:SENSOR AND SENSING METHOD ~71:LANDMAN, Adrian, 43 Maldon Street, Lynnwood Glen, South Africa;LANDMAN, Werner, 43 Maldon Street, Lynnwood Glen, South Africa ~72: LANDMAN, Adrian~ 33:ZA ~31:2021/08462 ~32:02/11/2021

2024/04336 ~ Complete ~54:SOLID STATE FORMS OF AN FGFR INHIBITOR ~71:KINNATE BIOPHARMA INC., 12830 El Camino Real, Suite 150, United States of America ~72: CHOPADE, Shubham;COX, Jason M.;KALDOR, Stephen W. (deceased);KANIA, Robert;KANOUNI, Toufike;PANDEY, Preetanshu;PHIMISTER, Andrew;REDDY, Jayachandra P.;TYHONAS, John~ 33:US ~31:63/287,212 ~32:08/12/2021

2024/04340 ~ Complete ~54:MICROBIOCIDAL BICYCLE HETEROCYCLIC DERIVATIVES ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: EDMUNDS, Andrew;GROSHEVA, Daria;LAMBERTH, Clemens;MAHAJAN, Atul;PINSON, Benjamin;SCARBOROUGH, Christopher Charles;STIERLI, Daniel~ 33:IN ~31:202111058396 ~32:15/12/2021;33:EP ~31:22163082.5 ~32:18/03/2022

2024/04315 ~ Provisional ~54:WICE SYSTEM ~71:Peter Manuel Gonsalves CAROTO, 21 Steenekoppie, South Africa ~72: Peter Manuel Gonsalves CAROTO~ 33:ZA ~31:1 ~32:02/06/2024

2024/04318 ~ Provisional ~54:METHOD AND SYSTEM FOR GENERATING ELECTRICAL ENERGY FROM THERMAL ENERGY USING PELTIER CELLS - UTILIZING INDOOR OUTDOOR TEMPERATURE GRADIENT EFFECTS IN HOUSEHOLDS ~71:UNIVERSITY OF SOUTH AFRICA, 1 PRELLER STREET MUCKLENEUK RIDGE, South Africa ~72: SNYMAN, LUKAS WILLEM~

2024/04322 ~ Complete ~54:CRACK REINFORCING STRUCTURE FOR ROADS AND BRIDGES ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: CHEN, Guanghua;HU, Guoping;LIU, Jiawei;WANG, Ke;ZHANG, Shuo~

2024/04313 ~ Provisional ~54:4G SMART TELEVISION ELECTRONIC SIM CARD WITH AUTO FACE TRACKING WITH BUILT-IN SOCIAL MEDIA APPS ~71:AHMED WASEEF SAIB, 24 Park Avenue, Desainager, South Africa ~72: AHMED WASEEF SAIB~

2024/04314 ~ Provisional ~54:CODED TEXT FORMATTING ~71:eesaa muhummad, 4 main avenue 32 alegria killarney, South Africa ~72: eesaa muhummad~

2024/04326 ~ Complete ~54:A RECONFIGURABLE RESONATOR APPARATUS ~71:CHAMPION MOBILE GLOBAL LTD, Ridge View, Wellgreen Lane, Kingston-Upon-Lewes, United Kingdom ~72: ALI, Atif;KHAN, Saad Saleem;LARKIN, Stephen;NISAR, Hamza;OMAR, Muhammad;USMAN, Muhammad~

2024/04328 ~ Complete ~54:TRUCK BOX ~71:METSO FINLAND OY, Rauhalanpuisto 9 02230 Espoo, Finland ~72: FREDRIK LARSSON;HENRIK PERSSON;MICHAEL GYBERG;NICLAS HÄLLEVALL~ 33:SE ~31:1751484-5 ~32:01/12/2017

2024/04317 ~ Provisional ~54:EXERCISE TRAINING APPARATUS ~71:POWER OF TECHNIQUE (PTY) LTD, 20 Coligny Street, Dalsig, South Africa ~72: BOTHA, Carel Hendrik;JANSEN VAN RENSBURG, Jacques;MALAN, Christo Hugo;VAN NIEKERK, Dirk Bouwer~

2024/04325 ~ Complete ~54:A SMART EVALUATION DEVICE FOR LABOR EDUCATION OF COLLEGE STUDENTS ~71:Guangzhou College of Technology and Business, No. 28 Shiling South Ring Road, Shiling Town, Huadu District, Guangzhou City, People's Republic of China ~72: Liu Qiang;Xu Xiaona~

2024/04335 ~ Complete ~54:MYCOBACTERIUM TUBERCULOSIS FUSION PROTEIN, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:COENBIO CO., LTD, (No. 618, Fenghuang Road, Shuangliu District), Chengdu Tianfu International Biomedical Engineering Industry Accelerator, People's Republic of China ~72: FU, Qingsong;LI, Bingchao;REN, Zhaoyuan;SHEN, Yinqi;ZHANG, Kaijun~ 33:CN ~31:202111311199.6 ~32:08/11/2021

2024/04323 ~ Complete ~54:DEVICE AND METHOD FOR DEFLECTING A CONVEYOR CHAIN AND ANIMAL FEED TRANSPORT SYSTEM ~71:BIG DUTCHMAN INTERNATIONAL GMBH, Auf der Lage 2, Germany ~72: Leon MANN~ 33:LU ~31:LU504453 ~32:08/06/2023

2024/04327 ~ Complete ~54:A METHOD FOR SIMULATING THE PERFORMANCE OF QUANTUM KEY DISTRIBUTION (QKD) PROTOCOLS USING FREQUENCY UP-CONVERSION ~71:Dr. Vishal Sharma, S/O Shri Kailash Chandra Sharma, Shivam Nagar- 1, Plot 56, Ramnagariya, Jagatpura, Jaipur, 302017, Rajasthan, India ~72: Dr. Vishal Sharma~ 33:IN ~31:202411029369 ~32:11/04/2024

2024/04332 ~ Complete ~54:HYBRID MULTIVALENT INFLUENZA VACCINES COMPRISING HEMAGGLUTININ AND NEURAMINIDASE AND METHODS OF USING THE SAME ~71:SANOFI, 46 Avenue de la Grande, France ~72: ALEFANTIS, Timothy;BARRO, Mario;SRIDHAR, Saranya;VOGEL, Thorsten;WARREN, William~ 33:US ~31:63/276,247 ~32:05/11/2021

2024/04339 ~ Complete ~54:EXPANDED MULTILAYER INTEGRAL GEOGRIDS AND METHODS OF MAKING AND USING SAME ~71:Tensar International Corporation, 2500 Northwinds Parkway, Suite 500, ALPHARETTA 30009, GA, USA, United States of America ~72: BAKER, Daniel Mark;CAVANAUGH, Joseph;CURSON, Andrew;GALLAGHER, Daniel John;JENKINS, Tom-Ross;TYGAGI, Manoj Kumar;WALLER, Andrew Edward~ 33:US ~31:63/291,624 ~32:20/12/2021

2024/04344 ~ Complete ~54:A STABLE EXTENDED RELEASE PHARMACEUTICAL COMPOSITION OF CLOZAPINE ~71:INTAS PHARMACEUTICALS LTD., Corporate House, Near Sola Bridge S. G. Highway, Thaltej,

Ahmedabad - 380054, Gujarat, India., Ahmedabad, 380054, India ~72: ASHISH SEHGAL;KAVAN PANDYA;PIYUSH KANSAGRA;RIKIN PATEL;SATYAVAN DHAVALE~ 33:IN ~31:202121058299 ~32:15/12/2021

2024/04324 ~ Complete ~54:REAL-TIME MONITORING AND CONTROL SYSTEM FOR DRIP IRRIGATION IN SOLAR GREENHOUSE PLANTING ~71:Gansu Desert Control Research Institute, No. 390, Beibinhe West Road, Anning District, Lanzhou, Gansu Province, 730000, People's Republic of China ~72: LI, Xuemin;LIU, Kailin;LIU, Shujuan;YUAN, Hongbo~

2024/04329 ~ Complete ~54:A SYSTEM FOR SECURE DATA AUTHENTICATION AND SHARING BETWEEN ELECTRIC VEHICLES IN A BLOCKCHAIN NETWORK ~71:Amjad Aldweesh, College of Computing and IT, Shaqra University, Shaqra, 11961, Saudi Arabia;Shaqra University, Shaqra, 11961, Saudi Arabia ~72: Amjad Aldweesh~

2024/04330 ~ Complete ~54:ONLINE TRANSACTION PLATFORM FOR PRODUCTS ~71:GELDENHUYS, Rohan, 11 Ernst Street, Aqua Park, Tzaneen 0850, LIMPOPO, SOUTH AFRICA, South Africa ~72: GELDENHUYS, Rohan~ 33:ZA ~31:2023/05186 ~32:11/05/2023

2024/04331 ~ Complete ~54:VIEWING OPTIC WITH MAGNIFICATION ADJUSTMENT RING ~71:SHELTERED WINGS d/b/a VORTEX OPTICS, ONE VORTEX DRIVE, BARNEVELD, WI 53507, USA, United States of America ~72: MCDERMOT, Connor~ 33:US ~31:63/275,658 ~32:05/11/2021

2024/04333 ~ Complete ~54:ANTITUMOR COMBINATIONS CONTAINING ANTI-CEACAM5 ANTIBODY-DRUG CONJUGATES AND ANTI-VEGFR-2 ANTIBODIES ~71:ELI LILLY AND COMPANY, Lilly Corporate Center, Indianapolis, Indiana, United States of America;SANOFI, 46 Avenue de la Grande, France ~72: BENSFIA, Samira;CHADJAA, Mustapha;LACOSTE-BOURGEACQ, Anne-Sophie;LE BAIL, Nathalie;NICOLAZZI, Céline~ 33:EP ~31:21306552.7 ~32:05/11/2021;33:US ~31:63/381,707 ~32:31/10/2022

2024/04337 ~ Complete ~54:BCMA-TARGETED CAR-T CELL THERAPY FOR MULTIPLE MYELOMA ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America;Legend Biotech USA Inc., 2101 Cottontail Lane, SOMERSET 08873, NJ, USA, United States of America;Nanjing Legend Biotech Co., Ltd., No.6 Building of Nanjing Life Science Town, No. 568 Longmian Avenue, Jiangning District, NANJING 211100, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: AKRAM, Muhammad;DEBRAGANCA, Kevin;FAN, Xiaohu;GENG, Dong;NESHEIWAT, Tonia;PACAUD, Lida;SCHECTER, Jordan;VARSOS, Helen;ZUDAIRE UBANI, Enrique~ 33:IB ~31:2021/128578 ~32:04/11/2021;33:US ~31:63/275,471 ~32:04/11/2021

2024/04342 ~ Complete ~54:METHODS OF TREATING CANCER ~71:Kymera Therapeutics, Inc., 500 North Beacon Street, 4th Floor, WATERTOWN 02472, MA, USA, United States of America ~72: CHEN, Dapeng;CHUTAKE, Yogesh;ENERSON, Bradley;GROWNEY, Joseph;HO, Chris;MAYO, Michele;MCDONALD, Alice;PROCTOR, William;QI, Jianfeng;RONG, Haojing;SCHALM, Stefanie;WEISS, Matthew M.;WILLIAMS, Juliet~ 33:US ~31:63/265,474 ~32:15/12/2021;33:US ~31:63/375,820 ~32:15/09/2022;33:US ~31:63/384,043 ~32:16/11/2022

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2024/04358 ~ Complete ~54:BACILLUS CLAUSII STRAIN, COMPOSITIONS THEREOF, AND METHODS OF USE ~71:DEERLAND PROBIOTICS & ENZYMES, INC., 3800 Cobb International Blvd NW, Kennesaw, Georgia, 30152, United States of America ~72: JOHN DEATON~ 33:IE ~31:2021/0209 ~32:08/12/2021

2024/04364 ~ Complete ~54:COMPOSITIONS COMPRISING ALPHA-FACTOR PREPRO SEQUENCE AND USES THEREOF ~71:Helix Nanotechnologies Inc, 5 Channel Center Street, Suite 600, BOSTON 02210, MA, USA, United States of America ~72: EROSHENKO, Nikolai;GILL, Taylor;JAMMEH, Kemo~ 33:US ~31:63/296,824 ~32:05/01/2022

2024/04348 ~ Provisional ~54:A PROCESS FOR THE RECOVERY OF NICKEL AND COBALT FROM LATERITE ORES ~71:SDD Metals Limited, 15 Woodend Drive, United Kingdom ~72: HUNTER, Colin John;PURKISS, Simon Anthony Roger~

2024/04351 ~ Complete ~54:AN ELECTRONIC COMMERCE MANAGEMENT PLATFORM DEVICE ~71:Jiaxing Vocational and Technology College, Jiaxing Vocational and Technology College, No.547, Tongxiang Road, Nanhu District, Jiaxing City, Zhejiang Province, 314000, People's Republic of China ~72: Tongrui Yu~

2024/04360 ~ Complete ~54:BACILLUS MEGATERIUM STRAIN, COMPOSITIONS THEREOF, AND METHODS OF USE ~71:DEERLAND PROBIOTICS & ENZYMES, INC., 3800 Cobb International Blvd NW, Kennesaw, Georgia, 30152, United States of America ~72: JOHN DEATON~ 33:IE ~31:2021/0211 ~32:08/12/2021

2024/04366 ~ Complete ~54:A PROCESS AND APPARATUS FOR PRODUCING METHANOL ~71:Andritz Oy, Tammasaarenkatu 1, HELSINKI 00180, FINLAND, Finland ~72: CHENNA, Naveen;GREIS, Otto;PESOLA, Aino;TERVOLA, Pekka~ 33:FI ~31:20216182 ~32:18/11/2021

2024/04350 ~ Complete ~54:LOW-POWER-CONSUMPTION WIRELESS FIRE ALARM SYSTEM TERMINAL WAKE-UP INSPECTION METHOD AND SYSTEM ~71:BENGBU EI FIRE ELECTRONICS CO., LTD., No.1300 Yinghe Road, Yuhui District, Bengbu City, Anhui Province, People's Republic of China ~72: HAO, Shuai;HU, Mingyu;LI, Wei;PANG, Chuandao;QI, Yi;ZHANG, Biao~ 33:CN ~31:202311138156.1 ~32:05/09/2023

2024/04361 ~ Complete ~54:METHODS OF TREATING SICKLE CELL DISEASE WITH VOXELOTOR ~71:Global Blood Therapeutics, Inc., 181 Oyster Point Boulevard, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: WASHINGTON, Carla B.~ 33:US ~31:63/276,498 ~32:05/11/2021;33:US ~31:63/286,461 ~32:06/12/2021;33:US ~31:63/291,191 ~32:17/12/2021

2024/04369 ~ Complete ~54:NOVEL IONIZABLE LIPIDS AND LIPID NANOPARTICLES AND METHODS OF USING THE SAME ~71:SAIL BIOMEDICINES, INC., 140 First Street, Suite 601, United States of America ~72: ADHIKARI, Arijit;BARTOLOZZI, Alessandra;ERDMANN, Roman;HOWE, Alaina;PATEL, Siddharth;PROUDFOOT, John;SALERNO, Dominick;UNION, Jennifer~ 33:US ~31:63/264,400 ~32:22/11/2021;33:US ~31:63/264,420 ~32:22/11/2021;33:US ~31:63/322,952 ~32:23/03/2022

2024/04353 ~ Complete ~54:GAME SYSTEM ~71:Angel Group Co., Ltd., 4600, Aono-cho, HIGASHIOMI-SHI 5270232, SHIGA, JAPAN, Japan ~72: MIHARA , Takanori;SHIGETA, Yasushi~ 33:JP ~31:2023-092779 ~32:05/06/2023

2024/04357 ~ Complete ~54:BOREHOLE TEMPERATURE MONITORING ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: KRUGER, Michiel Jacobus;LO, Cory;VAN SOELEN, Schagen Diederik~ 33:ZA ~31:2021/10056 ~32:08/12/2021

2024/04354 ~ Complete ~54:AUTOMATED UPDATING OF GEOLOGICAL MODEL BOUNDARIES FOR IMPROVED ORE EXTRACTION ~71:TECHNOLOGICAL RESOURCES PTY. LIMITED, Level 7, 360 Collins Street, Melbourne, Victoria, 3000, Australia ~72: ALEXANDER LOWE;ARMAN MELKUMYAN;DANIELLE ROBINSON;MEHALA BALAMURALI;RAYMOND LEUNG;TAMARA VASEY~ 33:AU ~31:2018904818 ~32:18/12/2018

2024/04356 ~ Complete ~54:COMBINATION THERAPIES FOR HIV INFECTIONS AND USES THEREOF ~71:VIIV HEALTHCARE COMPANY, 251 Little Falls Drive, Wilmington, Delaware, United States of America ~72: FERRIS, Robert;MADSEN, Heather;QI, Hangfei~ 33:US ~31:63/290,758 ~32:17/12/2021

2024/04355 ~ Complete ~54:A SYSTEM FOR SAFE STORAGE OF RECHARGEABLE BATTERY KITS IN ELECTRIC VEHICLES AND A METHOD FOR CONSTRUCTING THE SAME ~71:Techno India University, West Bengal, EM-4,Sector V, Salt lake City,Kolkata-700091,West Bengal, India ~72: Dipayan Ghosh;Dr. Subashis Biswas~

2024/04363 ~ Complete ~54:DIALKYL PHENOL INITIATED POLYETHERAMINE AND USES THEREOF ~71:Huntsman Petrochemical LLC, 10003 Woodloch Forest Dr., THE WOODLANDS 77380, TX, USA, United States of America ~72: GAO, Yusheng;ZHAO, Haibo~ 33:US ~31:63/287,995 ~32:10/12/2021

2024/04370 ~ Provisional ~54:ULTIMATE VARIABLE BOOKHOLDER ~71:HILTON BRIAN THOMAS, 309 THORA COURT, KITE STR, HORISON, South Africa ~72: HILTON BRIAN THOMAS ~

2024/04349 ~ Provisional ~54:SMART IRRIGATION MONITORING AND CONTROL SYSTEM FOR PHOTOVOLTAIC WATER PUMPING ~71:UNIVERSITY OF VENDA, University Road Thohoyandou, South Africa ~72: MALUTA NNDITSHEDZENI ERIC;MASEVHE LIVHUWANI~

2024/04362 ~ Complete ~54:ORAL DOSAGE FORMS ~71:Amryt Endo, Inc., 160 Federal Street, 21st Floor, BOSTON 02110, MA, USA, United States of America ~72: CARON, David;LANDAU, Isaac~ 33:US ~31:63/299,128 ~32:13/01/2022

2024/04365 ~ Complete ~54:SEALED ELECTROLYSIS CELL ~71:thyssenkrupp nucera AG & Co. KGaA, Vosskuhle 38, DORTMUND 44141, GERMANY, Germany ~72: AYRAK, Emre;BRINKMANN, Jonas;KLINK, Stefan;TOROS, Peter~ 33:EP ~31:21217263.9 ~32:23/12/2021

2024/04368 ~ Complete ~54:SOLAR WATER DISINFECTION ~71:4Life Solutions ApS, Fruebjergvej 3, KØBENHAVN Ø 2100, DENMARK, Denmark ~72: LØCKE, Alexander~ 33:DK ~31:PA202270099 ~32:14/03/2022

2024/04347 ~ Provisional ~54:A BEARING ~71:STOLTZ, Gabriël, Coenraad, Daniël, PLOT 385, PORTION 71, BOSHOEK, HEIDELBERG, 1441, SOUTH AFRICA, South Africa ~72: STOLTZ, Gabriël, Coenraad, Daniël~

2024/04352 ~ Complete ~54:SECURITY SYSTEM AND APPARATUS ~71:ALPHA91 ENTERPRISES (PTY) LTD, 6 Viljoen Street,, South Africa ~72: ALISCHIA MYBURGH;REGARDT MYBURGH~

2024/04359 ~ Complete ~54:BACILLUS COAGULANS STRAIN, COMPOSITIONS THEREOF, AND METHODS OF USE ~71:DEERLAND PROBIOTICS & ENZYMES, INC., 3800 Cobb International Blvd NW, Kennesaw, Georgia, 30152, United States of America ~72: JOHN DEATON~ 33:IE ~31:2021/0210 ~32:08/12/2021

2024/04367 ~ Complete ~54:ELECTRONIC VAPOUR PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MUSGRAVE, Damyn;SEARS, Stephen;SHORT, Jason;WOOD, Jason~ 33:US ~31:63/265,651 ~32:17/12/2021;33:US ~31:63/265,654 ~32:17/12/2021;33:US ~31:63/265,655 ~32:17/12/2021;33:US ~31:63/265,656 ~32:17/12/2021;33:GB ~31:2209031.0 ~32:20/06/2022;33:GB ~31:2209040.1 ~32:20/06/2022;33:GB ~31:2209044.3 ~32:20/06/2022;33:GB ~31:2209050.0 ~32:20/06/2022;33:US ~31:63/383,895 ~32:15/11/2022

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2024/04386 ~ Complete ~54:ANTI-ILT4 AND ANTI-PD-1 BISPECIFIC CONSTRUCTS ~71:Biosion, Inc., 5th Floor, Building D, Zhongdan Unit South, Longshan, Rd, Jiangbei New District, NANJING 210061, JIANGSU, CHINA (P.R.C.), People's Republic of China;Celldex Therapeutics, Inc., 53 Frontage Road, Suite 220, HAMPTON 08827, NJ, USA, United States of America ~72: CHEN, Mingjiu;GOLDSTEIN, Joel;KELER, Tibor;MURPHY, Michael;O'NEILL, Thomas;VITALE, Laura A.~ 33:IB ~31:2021/129380 ~32:08/11/2021

2024/04385 ~ Complete ~54:ANTI-OX40 ANTIBODIES AND METHODS OF USE ~71:SHANGHAI HENLIUS BIOLOGICS CO., LTD., Room 617, Building 29, No. 1, Lane 618, Dingyuan Road, People's Republic of China;SHANGHAI HENLIUS BIOPHARMACEUTICAL CO., LTD., Building 1 (Building D), No. 1289, Yishan Road, People's Republic of China;SHANGHAI HENLIUS BIOTECH, INC., Room 330, Complex Building, No. 222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, People's Republic of China ~72: DONG, Chen;JIANG, Wei-Dong;LIN, Pei-Hua;XU, Wenfeng~ 33:CN ~31:PCT/CN2021/139277 ~32:17/12/2021

2024/04393 ~ Complete ~54:DHODH INHIBITORS CONTAINING A CARBOXYLIC ACID BIOISOSTERE ~71:Immunic AG, Lochhamer Schlag 21, GRÄFELFING 82166, GERMANY, Germany ~72: GEGE, Christian;KOHLHOF, Hella;MÜHLER, Andreas;VITT, Daniel~ 33:EP ~31:21217534.3 ~32:23/12/2021;33:EP ~31:22201158.7 ~32:12/10/2022

2024/04400 ~ Complete ~54:COMPOSITIONS COMPRISING GRAPE SKIN EXTRACTS AND METHODS OF PREPARATION AND USE THEREOF ~71:PHANTASM LIMITED, 9 Walmer Street, Hataitai, New Zealand ~72: RUFFELL, Joshua~ 33:NZ ~31:783291 ~32:09/12/2021;33:NZ ~31:783293 ~32:09/12/2021

2024/04374 ~ Provisional ~54:ELECTRONIC GAMBLING GAME BASED ON CRICKET ~71:GORDON, Jonathan, 4 Atholl South Road, South Africa ~72: GORDON, Jonathan~

2024/04379 ~ Complete ~54:DERIVATION OF NAÏVE BOVINE EMBRYONIC STEM CELLS ~71:THE SEMEX ALLIANCE, 5653 HIGHWAY 6 NORTH, GUELPH, ONTARIO N1H 6J2, CANADA, Canada ~72: JANG, Si-Jung;LABRECQUE, Remi~ 33:US ~31:63/278,751 ~32:12/11/2021

2024/04394 ~ Complete ~54:ANTIBODY OR ANTIGEN-BINDING FRAGMENT THEREOF ~71:OSAKA UNIVERSITY, 1-1, Yamadaoka, Suita-shi, Osaka, 5650871, Japan;PERIOTHERAPIA CO., LTD., 2-8, Yamadaoka, Suita-shi, Osaka, 5650871, Japan ~72: FUMIHIRO SANADA;RYUICHI MORISHITA;YOSHIAKI TANIYAMA~ 33:JP ~31:2021-198818 ~32:07/12/2021

2024/04375 ~ Complete ~54:INTELLIGENT CONTROL SYSTEM FOR INTELLIGENT PUMPING STATION AND CONTROL METHOD THEREOF ~71:SINOSO Science and Technology Inc, No. 7 Pengshan Road, Jiangning District, Nanjing, Jiangsu, 210000, People's Republic of China ~72: SONG Chengfa;YAN Aizhong~ 33:CN ~31:202310695344.8 ~32:13/06/2023

2024/04377 ~ Complete ~54:INTELLIGENT MONITORING SYSTEM FOR TANK SERVO SAMPLING BASED ON ARTIFICIAL INTELLIGENCE ~71:QINGDAO AUBON INSTRUMENT CO., LTD, Building 2, No. 12 Kaifang Road, Huangdao District, Qingdao City, People's Republic of China ~72: Guiliang CUI;Hui CHEN;Jifei LUO;Liqun ZHANG~ 33:CN ~31:202311824614.7 ~32:27/12/2023

2024/04380 ~ Complete ~54:WINDOW BLIND FRAME ~71:LOUVER-LITE LIMITED, ASHTON ROAD, HYDE CHESHIRE SK 14 4BG, GREAT BRITAIN, United Kingdom ~72: GREENING, Andrew~ 33:GB ~31:2116362.1 ~32:12/11/2021

2024/04372 ~ Provisional ~54:REMOVAL OF LIQUIDS FROM SLURRIES ~71:ADP Marine & Modular (Pty) Ltd, Golf Park 3, Golf Park, Raapenberg Road, Mowbray, South Africa ~72: GROBBELAAR, Cornelius Johannes Müller~

2024/04376 ~ Complete ~54:VIRAL VECTORS COMPRISING RDH12 CODING REGIONS AND METHODS OF TREATING RETINAL DYSTROPHIES ~71:THE REGENTS OF THE UNIVERSITY OF MICHIGAN, Office Of Technology Transfer, 1600 Huron Parkway, 2nd Floof, Ann Arbor, Michigan, 48109-2590, United States of America ~72: ALEXANDER J SMITH;DEBRA A THOMPSON;ROBIN R ALI~ 33:US ~31:62/586,624 ~32:15/11/2017

2024/04381 ~ Complete ~54:SYSTEMS AND METHODS FOR BARRING DISASTER ROAMING BY USER EQUIPMENTS IN CELLS RESERVED FOR OPERATOR USE ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: BERGSTRÖM, Mattias~ 33:US ~31:63/278,742 ~32:12/11/2021

2024/04388 ~ Complete ~54:CRYSTALLINE FORMS OF A RIPK1 INHIBITOR ~71:Rigel Pharmaceuticals, Inc., 1180 Veterans Blvd., SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: DUAN, Shaoming;SHAW, Simon;WANG, Xin~ 33:US ~31:63/290,066 ~32:16/12/2021

2024/04383 ~ Complete ~54:SYSTEMS AND METHODS FOR ACOUSTIC MONITORING OF TRAYED DISTILLATION COLUMNS ~71:DOW GLOBAL TECHNOLOGIES LLC, 2211 H.H. Dow Way, United States of America ~72: GEORGE, Sherine;HEIDER, Patrick L.;WANG, Zhenyu~ 33:US ~31:63/287,201 ~32:08/12/2021

2024/04387 ~ Complete ~54:METHODS OF PREVENTING INHIBITION OF FLAVOUR PRODUCTION IN YEAST ~71:Anheuser-Busch InBev S.A., Grand Place 1, BRUSSELS 1000, BELGIUM, Belgium ~72: DE GRAEVE, Stijn;HAGMAN, Arne;MALCORPS, Philippe;SOUFFRIAU, Ben;THEVELEIN, Johan~ 33:BE ~31:2021/5999 ~32:17/12/2021

2024/04390 ~ Complete ~54:ANTI-TREM2 ANTIBODY AND USES THEREOF ~71:Vigil Neuroscience, Inc., One Broadway Suite 07-300, CAMBRIDGE 02142, MA, USA, United States of America ~72: MARSH, Andrew J.;O'MARA, Ryan;PAPAPETROPOULOS, Spyridon;STILES, David K.;THACKABERRY, Evan Andrew~ 33:GR ~31:20210100820 ~32:22/11/2021;33:US ~31:63/264,428 ~32:22/11/2021;33:US ~31:63/381,897 ~32:01/11/2022

2024/04392 ~ Complete ~54:ELECTRONIC VAPOUR PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MUSGRAVE, Damyn;SEARS, Stephen;SHORT, Jason;WOOD, Jason~ 33:US ~31:63/265,651 ~32:17/12/2021;33:US ~31:63/265,654 ~32:17/12/2021;33:US ~31:63/265,655 ~32:17/12/2021;33:US ~31:63/265,656 ~32:17/12/2021;33:GB ~31:2209031.0 ~32:20/06/2022;33:GB ~31:2209040.1 ~32:20/06/2022;33:GB ~31:2209044.3 ~32:20/06/2022;33:GB ~31:2209050.0 ~32:20/06/2022;33:US ~31:63/383,895 ~32:15/11/2022

2024/04395 ~ Complete ~54:CONVERSION OF CO2 AND H2 TO SYNGAS ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: PETER MØLGAARD MORTENSEN~ 33:EP ~31:22152991.0 ~32:24/01/2022

2024/04397 ~ Complete ~54:CHIMERIC ANTIGEN RECEPTOR-MODIFIED CELLS FOR THE TREATMENT OF CLDN6 EXPRESSING CANCER ~71:BIONTECH SE, An der Goldgrube 12, 55131, Mainz, Germany ~72: BENJAMIN RENGSTL;KATHARINA REINHARD;LIANE MONIKA PREUSSNER;PETRA OEHM;UGUR SAHIN;ÖZLEM TÜRECI~ 33:EP ~31:PCT/EP2021/085063 ~32:09/12/2021;33:EP ~31:PCT/EP2022/074408 ~32:01/09/2022

2024/04399 ~ Complete ~54:FOLDABLE CONTAINER ~71:OGRAPHY PTY LTD, 2 First Street, Australia ~72: MARKS, Prudence~ 33:AU ~31:2021904109 ~32:17/12/2021

2024/04401 ~ Complete ~54:GRAPE SKIN COMPOSITIONS AND COMPOUNDS, AND METHODS OF PREPARATION AND USE THEREFOR ~71:PHANTASM LIMITED, 9 Walmer Street, Hataitai, New Zealand ~72: RUFFELL, Joshua~ 33:NZ ~31:783291 ~32:09/12/2021;33:NZ ~31:783293 ~32:09/12/2021

2024/04384 ~ Complete ~54:A GRANULAR BIOSTIMULANT AS PLANT GROWTH PROMOTER, PROCESSES FOR PREPARING THE SAME AND USES THEREOF ~71:GREEN INNOVATION GMBH, Grabenweg 68, 6020, Innsbruck, Austria;UPM-KYMMENE CORPORATION, Alvar Aallon katu 1, 00100, Helsinki, Finland ~72: HUBSCH, Christian;LEONARDI, Giuliano;PIETARINEN, Suvi~ 33:IT ~31:102021000028904 ~32:15/11/2021

2024/04391 ~ Complete ~54:STAT3 DEGRADERS AND USES THEREOF ~71:Kymera Therapeutics, Inc., 500 North Beacon Street, 4th Floor, WATERTOWN 02472, MA, USA, United States of America ~72: AGARWAL, Sagar;DE SAVI, Christopher;DEY, Joyoti;DIXIT, Vaishali;ENERSON, Bradley;GOLLERKERI, Ashwin;GOLLOB, Jared;HO, Chris;MAYO, Michele;RONG, Haojing;YANG, Bin~ 33:US ~31:63/265,275 ~32:11/12/2021;33:US ~31:63/383,372 ~32:11/11/2022

2024/04396 ~ Complete ~54:SECURE DATA REPLICATION SYSTEMS AND METHODS ~71:MICROSOFT TECHNOLOGY LICENSING, LLC, One Microsoft Way, Redmond, Washington, 98052-6399, United States of America ~72: ADIR ATIAS;AVIAD PINES;AVIRAM FIREBERGER;EVGENY LUTSKY;ORON GOLAN~ 33:US ~31:17/589,790 ~32:31/01/2022

2024/04373 ~ Provisional ~54:PRESSURE RING ASSEMBLY ~71:FURNCOR ENGINEERING (PTY) LTD T/A FURNCOR, 17 Joule Street, Industria, Middelburg, 1050, South Africa ~72: JOSH ELGAR ALCHWYN JAMIESON~

2024/04378 ~ Complete ~54:SCREENING DEVICE BASED ON METALLURGICAL RAW MATERIAL ~71:SUZHOU VOCATIONAL INSTITUTE OF INDUSTRIAL TECHNOLOGY, 1 Zhineng Avenue, Suzhou International Education Park, Wuzhong Avenue, Suzhou, People's Republic of China ~72: Dong XIE;Guangcai ZHANG;Xiaohua CHEN;Yang WANG;Yujie BAI;Zhanshan WANG~ 33:CN ~31:202410516538.1 ~32:26/04/2024

2024/04403 ~ Complete ~54:FUSED PYRROLIDINE PSYCHOPLASTOGENS AND USES THEREOF ~71:DELIX THERAPEUTICS, INC., 36 Crosby Drive, Suite 200, United States of America ~72: CHYTIL, Milan;POWELL, Noel Aaron~ 33:US ~31:63/290,037 ~32:15/12/2021;33:US ~31:63/387,225 ~32:13/12/2022

2024/04439 ~ Complete ~54:METHOD FOR MANUFACTURING AN ANNEALED STEEL SHEET ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Thomas DIEUDONNE~ 33:IB ~31:PCT/IB2021/061906 ~32:17/12/2021

2024/04382 ~ Complete ~54:THIN COATINGS FOR HYDRAULIC COMPONENTS ~71:CATERPILLAR INC., 100 NE Adams Street - AH9510, United States of America ~72: GOSLOVICH, Kurt S.;HENDERSON, Steven J.;SORDELET, Daniel J.~ 33:US ~31:17/643,343 ~32:08/12/2021

2024/04389 ~ Complete ~54:A MODIFIED AIR STRIPPING PROCESS AND APPARATUS ~71:Andritz Oy, Tammasaarenkatu 1, HELSINKI 00180, FINLAND, Finland ~72: CHENNA, Naveen;GREIS, Otto;PESOLA, Aino;TERVOLA, Pekka~ 33:FI ~31:20216184 ~32:18/11/2021

2024/04398 ~ Complete ~54:ANTI-OX40 ANTIBODIES, MULTISPECIFIC ANTIBODIES AND METHODS OF USE ~71:SHANGHAI HENLIUS BIOLOGICS CO., LTD., Room 617, Building 29, No. 1, Lane 618, Dingyuan Road, People's Republic of China;SHANGHAI HENLIUS BIOPHARMACEUTICAL CO., LTD., Building 1 (Building D), No. 1289, Yishan Road, People's Republic of China;SHANGHAI HENLIUS BIOTECH, INC., Room 330, Complex Building, No. 222 Kangnan Road, China (Shanghai) Pilot Free Trade Zone, People's Republic of China

~72: CHANG, Jen-Kuan;DONG, Chen;JIANG, Wei-Dong;LIN, Pei-Hua;XU, Wenfeng~ 33:CN ~31:PCT/CN2021/139273 ~32:17/12/2021

2024/04402 ~ Complete ~54:TREATMENT OF CANCER WITH AN FGFR KINASE INHIBITOR ~71:KINNATE BIOPHARMA INC., 12830 El Camino Real, Suite 150, United States of America ~72: COX, Jason M.;FRANOVIC, Aleksandra;KANIA, Robert;KOBAYASHI, Ken;MARTIN, Eric S.;MILLER, Nichol;MURPHY, Eric A.;TIMPLE, Noelito;TYHONAS, John;VASSAR, Angie;WILLIAMS, Richard Thomas~ 33:US ~31:63/287,456 ~32:08/12/2021

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2024/04414 ~ Complete ~54:ISOXAZOLIDINES AS RIPK1 INHIBITORS AND USE THEREOF ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, MA, United States of America ~72: DEFOSSA, Elisabeth;HEINELT, Uwe;MATTER, Hans;MENDEZ-PEREZ, Maria;RACKELMANN, Nils;RITTER, Kurt;SZILLAT, Hauke;ZECH, Gernot~ 33:EP ~31:21315242.4 ~32:11/11/2021

2024/04404 ~ Provisional ~54:PROJECTOR PEN (SMART PEN) ~71:Machaba Senthate Sakios, 1684 ext 3 Morungule street, South Africa ~72: Machaba Senthate Sakios~

2024/04416 ~ Complete ~54:SANITARY CUBICLE, IN PARTICULAR A TOILET CUBICLE ~71:TOI TOI & DIXI GROUP GMBH, Halskestraße 38, 40880, Ratingen, Germany ~72: HOLGER MARTIN WIRTZ;STEPHAN DIWISCH;TIM WORIESCHECK~ 33:DE ~31:10 2021 133 721.6 ~32:17/12/2021

2024/04434 ~ Provisional ~54:DURBAN TRANSPORT APP ~71:Noluthando Dlamini, 14 heights close, South Africa ~72: Noluthando Dlamini~

2024/04426 ~ Complete ~54:LEVONORGESTREL BUTANOATE FORMULATION AND METHODS RELATING THERETO ~71:SRI International, 333 Ravenswood Avenue, MENLO PARK 94025, CA, USA, United States of America;The United States of America, as represented by the Secretary, Department of Health and Human Services, 6701 Rockledge Drive, Suite 700, MSC 7788, BETHESDA 20892, MD, USA, United States of America ~72: BLITHE, Diana;CHEN, Ken;FANG, Jia-Hwa;LEE, Min;RUIZ, Eduardo~ 33:US ~31:63/289,965 ~32:15/12/2021

2024/04433 ~ Provisional ~54:SAFE CAN ~71:OFENTSE THATO ENTERPRISE (PTY) LTD, 3416 MALIZA LINK, MOROKA NORTH, South Africa ~72: PHILLIP MANYANYA MPHALO~

2024/04408 ~ Complete ~54:SIMULATION OPTIMIZATION SYSTEM AND METHOD FOR ALUMINUM GATE CMP ~71:TANGSHAN UNIVERSITY, No. 11 University West Road, Hi-tech Zone, Tangshan, Hebei Province, People's Republic of China ~72: XUE Yali;ZHANG Jin~

2024/04419 ~ Complete ~54:TAIL EXTENSION FOR A TRUCK BED ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: BROMENSHENKEL, Timothy James;LEE, One Chul~ 33:US ~31:17/548,421 ~32:10/12/2021

2024/04430 ~ Complete ~54:NUCLEIC ACID SEQUENCE FOR DETECTING GLYCINE MAX PLANT DBN8205 AND DETECTION METHOD THEREFOR ~71:BEIJING DABEINONG BIOTECHNOLOGY CO., LTD., 1st Floor, No.2 Building, Yard 19, Chengwan Street, People's Republic of China ~72: BAO, Xiaoming;DI, Shaokang;HAN, Chao;LI, Yunting;XIE, Xiangting;YU, Caihong;ZHANG, Linlin~

2024/04432 ~ Provisional ~54:TAXI DM ~71:LEBOGANG SELLO SAKKIE MASHILO, 7026 ZONE6, GARANKUWA, South Africa ~72: LEBOGANG SELLO SAKKIE MASHILO ~

2024/04405 ~ Complete ~54:NON-CONTACT WEIGHING AND DEVIATION WARNING DEVICE FOR BELT CONVEYING ~71:LINGZHI ENVIRONMENTAL CO., LTD, District D, Technology Development Aera, Xijiu Street, Huanke Park, People's Republic of China;NINGBO UNIVERSITY OF FINANCE & ECONOMICS, No. 899, Xueyuan Road, Haishu District, Ningbo City,, People's Republic of China ~72: CHEN, Hao;LIU, Huiping;LV, Huanpei;LV, Xuejiao;TIAN, Si;WANG, Hairong;WANG, Mingling;ZHANG, Yubin;ZHENG, Mengze;ZHU, Zaisheng~

2024/04411 ~ Complete ~54:NON-CONTACT WEIGHING AND DEVIATION WARNING APPARATUS FOR BELT CONVEYOR ~71:LINGZHI ENVIRONMENTAL CO., LTD, District D, Technology Development Aera, Xijiu Street, Huanke Park, People's Republic of China;NINGBO UNIVERSITY OF FINANCE & ECONOMICS, No. 899, Xueyuan Road, Haishu District, People's Republic of China ~72: CHEN, Hao;LIU, Huiping;LV, Huanpei;LV, Xuejiao;TIAN, Si;WANG, Hairong;WANG, Mingling;ZHANG, Yubin;ZHENG, Mengze;ZHU, Zaisheng~

2024/04418 ~ Complete ~54:HEMP HURD-BASED NONWOVEN MATERIAL AND RELATED PRODUCTION METHOD ~71:TEXOL S.R.L., Via Corradino d'Ascanio 3, 65020 Alanno PE, Italy ~72: ALESSANDRO GAGLIARDINI;CARMINE CIMINI;RENZO MARCELLO ODOARDI~ 33:IT ~31:102022000000437 ~32:13/01/2022

2024/04422 ~ Complete ~54:FERTILIZER COMPOSITION INCLUDING MULTI-MICRONUTRIENTS ~71:SABIC Agri-Nutrients Company, PO Box 11044, JUBAIL 31961, SAUDI ARABIA, Saudi Arabia ~72: AL ROHILY, Khalid Marshod;BAG, Nilkamal;BIRADAR, Satish C.;KORIPELLY, Rajamalleswaramma;R, Ganeshan~ 33:EP ~31:21208974.2 ~32:18/11/2021

2024/04429 ~ Complete ~54:ACTIVE/PASSIVE COOLING SYSTEM WITH PUMPED REFRIGERANT ~71:MUNTERS CORPORATION, 158 Shooting Star Way, United States of America ~72: BOUCHER, Michael;FANG, Wei;NEUWALD, Rafael~ 33:US ~31:63/297,000 ~32:06/01/2022

2024/04431 ~ Complete ~54:5G PLANAR ELECTROMAGNETIC SENSOR BASED ON COMPLEMENTARY SPLIT RING, AND MEASURING METHOD ~71:ANHUI NORMAL UNIVERSITY, No.1 East Beijing Road, Wuhu City, People's Republic of China ~72: Chen WANG;Dan ZHANG;Hexue LIU;Jiajia WANG;Kai LIU;Xiaoming LIU~

2024/04410 ~ Complete ~54:EARTH PRESSURE BALANCE SHIELD TUNNELING METHOD FOR UPPER SOFT AND LOWER HARD AND FULL-FACE HARD ROCK STRATA ~71:CHINA RAILWAY FIRST GROUP CO., LTD, No. 1, Yanta North Road, Beilin District, Xi 'an, People's Republic of China;CHINA RAILWAY FIRST GROUP URBAN RAIL TRANSIT ENGINEERING CO., LTD, No.50-6, Shanhe Road, Anzhen Street, Xishan District, People's Republic of China ~72: DONG, Xiaolong;FANG, Xinhua;GONG, Shuaishuai;LI, Zhao;LI, kuan;QU, Tao;SI, Rui;WANG, Bin;WANG, Dangku;WU, Jincheng;XU, Dongsheng;ZHANG, Buling~

2024/04413 ~ Complete ~54:DUAL-CONNECTION CRANK-PISTON MECHANISM ~71:SICHUAN BEIXIN HONGNENG TECHNOLOGY RESEARCH INSTITUTE, No. 303, 3rd Floor, Building 4, No. 9 Gaoshengqiao Road, Wuhou District, Chengdu, Sichuan, 610000, People's Republic of China ~72: Xin SUN~ 33:CN ~31:202111624964.X ~32:28/12/2021;33:CN ~31:202210307628.0 ~32:27/03/2022

2024/04423 ~ Complete ~54:STABILISED LIQUID VACCINES OF LIVE VIRUSES ~71:Intervet International B.V., Wim de Körverstraat 35, BOXMEER 5831 AN, THE NETHERLANDS, Netherlands ~72: KETS, Edwin;PIEST, Martin;VERMEIJ, Paul~ 33:EP ~31:21217481.7 ~32:23/12/2021

2024/04424 ~ Complete ~54:COLD-TEMPERATURE ISOTHERMAL AMPLIFICATION OF POLYNUCLEOTIDES ~71:Massachusetts Institute of Technology, 77 Massachusetts Avenue, CAMBRIDGE 02139, MA, USA, United States of America ~72: ANGENENT-MARI, Nicolaas;COLLINS, James J.~ 33:US ~31:63/287,437 ~32:08/12/2021

2024/04407 ~ Complete ~54:METHOD FOR HYBRID BREEDING OF WAXY HULLESS BARLEY FOR GRAIN ~71:Crop Research Institute, Sichuan Academy of Agricultural Sciences, No. 4 Shizishan Road, Jinjiang District, Chengdu City, Sichuan Province, 610000, People's Republic of China ~72: LI, Shizhao;LIU, Zehou;TU, Yang;WU, Ling;ZHENG, Jianmin;ZHU, Huazhong~ 33:CN ~31:202311173741.5 ~32:12/09/2023

2024/04417 ~ Complete ~54:METHODS FOR TREATING MUSCLE INVASIVE UROTHELIAL CANCER OR MUSCLE INVASIVE BLADDER CANCER WITH ANTIBODY DRUG CONJUGATES (ADC) THAT BIND TO 191P4D12 PROTEINS ~71:AGENSYS, INC., 2375 Waterview Drive Northbrook, Illinois 60062, United States of America;SEAGEN INC., 21823 30th Drive SE, Bothell, Washington, 98021, United States of America ~72: ANNE-SOPHIE CARRET;OYEWALE O ABIDOYE~ 33:US ~31:63/296,831 ~32:05/01/2022;33:US ~31:63/304,136 ~32:28/01/2022

2024/04427 ~ Complete ~54:COMPOUNDS ATTACHABLE TO SKIN ~71:Inkbox Ink Incorporated, 393 King Street West, TORONTO M5V 3G8, ONTARIO, CANADA, Canada ~72: CAPUTO, Christopher B.;MANHAS, Sanjay~ 33:US ~31:63/287,069 ~32:07/12/2021

2024/04406 ~ Complete ~54:A LOW RELAXATION PRESTRESSED STEEL STRAND PRODUCTION DEVICE AND PRODUCTION PROCESS ~71:Luoyang Lixin Metal Products Co., Ltd, Group 18, Shijiawan Village, Guxian Town, Yanshi District, Luoyang City, Henan Province, People's Republic of China ~72: Li Shijia;Yang Xiangdong~

2024/04409 ~ Complete ~54:ORGANIC HYDROPHOBIC GROUP METAL CARBIDE COUPLING FILM AND ITS PREPARATION METHOD AND APPLICATION ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: Bai Wenyu;Chen Yahui;Cui Leqi;Guo Chengqi;Huo Pengwei;Kang Haiyan;Li Baixin;Li Yanna;Ma Mengxia;Mao Yanli;Song Zhongxian;Yan Xu;Yan Yan;Zhang Xia;Zhu Han;Zhu Xinfeng~ 33:CN ~31:2024101467772 ~32:02/02/2024

2024/04415 ~ Complete ~54:PLATELET-DERIVED GROWTH FACTOR RECEPTOR (PDGFR) ALPHA INHIBITORS AND USES THEREOF ~71:PROGENTOS THERAPEUTICS, INC., 6 Wendell Street Winchester, Massachusetts 01890, United States of America ~72: BRADLEY DEAN TAIT;DANIEL J PARKS;JINHYUNG CHO;PATRICIA R SHAW;RAJIV AGRAWAL;SANJAY SHIVAYOGI MAGAVI~ 33:US ~31:63/277,145 ~32:08/11/2021;33:US ~31:63/378,431 ~32:05/10/2022

2024/04420 ~ Complete ~54:CATHODE ASSEMBLY ~71:COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, Clunies Ross St, Acton, Australian Capital Territory, 2601, Australia;SEC CARBON, Ltd., 6th Floor, JRE Amagasaki Front Bldg., 2-6, Shioe 1-chome, Amagasaki-shi, Hyogo, 661-0976, Japan ~72: AKITA, Ryo;KIERUJ, Jeremy;KOYAMA, Yasuhiro;MOLENAAR, David;TSUDA, Takuya~ 33:JP ~31:JP2021-209593 ~32:23/12/2021

2024/04425 ~ Complete ~54:MULTIPLE GOB FEEDER, GOB FEEDING METHOD AND RELATED SYSTEM, AND FEEDER ORIFICE ~71:Owens-Brockway Glass Container Inc., One Michael Owens Way, PERRYSBURG 43551, OH, USA, United States of America ~72: ALTENDORFER, Bernhard;ANDERSON, Walter;FULLER, Alexandra;HOLMES-LIBBIS, John;REYES, Javier~ 33:US ~31:63/313,983 ~32:25/02/2022

2024/04428 ~ Complete ~54:PHENOXY AND BENZYLOXY SUBSTITUTED PSYCHOPLASTOGENS AND USES THEREOF ~71:DELIX THERAPEUTICS, INC., 36 Crosby Drive, Suite 200, United States of America ~72: CHYTIL, Milan;POWELL, Noel Aaron~ 33:US ~31:63/290,036 ~32:15/12/2021;33:US ~31:63/387,222 ~32:13/12/2022

2024/04421 ~ Complete ~54:ANTI-CD38 BINDING MOLECULES AND USES THEREOF ~71:IGM Biosciences, Inc., 325 East Middlefield Road, MOUNTAIN VIEW 94043, CA, USA, United States of America ~72: BALIGA,

Ramesh;HINTON, Paul R.;KEYT, Bruce Alan;LI, Keyu~ 33:US ~31:63/306,434 ~32:03/02/2022;33:US ~31:63/370,025 ~32:01/08/2022;33:US ~31:63/383,736 ~32:15/11/2022

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2024/04462 ~ Complete ~54:HYDRATE CRYSTAL OF 5-CHLORO-4-(3-CHLORO-4-METHYLPHENYL)-1H-IMIDAZOLE-2-CARBONITRILE ~71:ISHIHARA SANGYO KAISHA, LTD., 3-15, Edobori 1-chome, Nishi-ku, Osaka-shi, Osaka, 5500002, Japan ~72: HIROSHI SHIKAMA;HIROTO SHIOTA;KOJI HIGUCHI;SHOGO ATSUMI;TAKAYUKI IMURA~ 33:JP ~31:2021-199461 ~32:08/12/2021

2024/04435 ~ Complete ~54:BUSINESS ADMINISTRATION MAJOR TEACHING SYSTEM ~71:BAICHENG NORMAL UNIVERSITY, No. 57 Zhongxing West Road, Baicheng City, Jilin Province, 137000, People's Republic of China ~72: WANG, Bingyu~

2024/04438 ~ Complete ~54:METHOD FOR QUANTITATIVE EVALUATION OF URBAN HEAT ISLAND EFFECT BASED ON MULTI-SOURCE SATELLITE REMOTE SENSING ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CHEN, Wenfang;LIN, Yitang;SHI, Chunlei;WEN, Ying;ZHANG, Zhimin~

2024/04443 ~ Complete ~54:COMPOSITIONS AND METHODS FOR ORAL ADMINISTRATION ~71:IMAGINE PHARMA LLC, 1401 Forbes Avenue Suite 312, United States of America ~72: POLLETT, Jonathan;THAI, Ngoc~ 33:US ~31:63/288,579 ~32:11/12/2021

2024/04444 ~ Complete ~54:COMPLEMENT FACTOR I-RELATED COMPOSITIONS AND METHODS ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, United States of America ~72: BLOUSE, Grant E.;IYER, Shyam Rajan;JENDROSZEK, Agnieszka;JENSEN, Jan Kristian;MCGUIRE, James N.;OLDENBURG, Emil;PELOT, Kyle A.;SCHAR, Christine René~ 33:US ~31:63/293,040 ~32:22/12/2021

2024/04449 ~ Complete ~54:ALZ-801 FOR USE IN TREATING ALZHEIMER'S DISEASE ~71:Alzheon, Inc., 111 Speen Street, Suite 306, FRAMINGHAM 01701, MA, USA, United States of America ~72: ABUSHAKRA, Susan;FLANZRAICH, Neil William;HEY, John;TOLAR, Martin~ 33:US ~31:63/287,552 ~32:09/12/2021

2024/04455 ~ Complete ~54:ANTIBODY MOLECULES AND CONJUGATES ~71:AstraZeneca AB, SÖDERTÄLJE SE-151-85, SWEDEN, Sweden ~72: BUCHANAN, Andrew Grier;COMER, Frank Irvine;DU, Qun;KASTURIRANGAN, Srinath;MAZOR, Yariv;YANG, Chunning~ 33:US ~31:63/263,835 ~32:10/11/2021

2024/04464 ~ Complete ~54:MULTI-BLOCKS STRUCTURE AND METHOD FOR FORMING A COMPOSITE PART FROM SAID STRUCTURE ~71:TECHNI-MODUL ENGINEERING, ZAC de Pérache, France ~72: LUQUAIN Serge~ 33:EP ~31:21306872.9 ~32:21/12/2021

2024/04502 ~ Provisional ~54:SPIRAL REFURBISHMENT MANUAL ~71:POKOLA JEREMIA MOTHOKWA, 5 DAGENHAM, UNIT 1, GAUTENG, South Africa ~72: POKOLA JEREMIA MOTHOKWA~

2024/04447 ~ Complete ~54:WIRELESS POWER TRANSFER ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: AGAFONOV, Aleksei;STARING, Antonius Adriaan Maria~ 33:EP ~31:21207416.5 ~32:10/11/2021

2024/04452 ~ Complete ~54:RAF KINASE INHIBITORS AND METHODS OF USE THEREOF ~71:Deciphera Pharmaceuticals, LLC, 200 Smith Street, WALTHAM 02451, MA, USA, United States of America ~72: AHN, Yu Mi;FLYNN, Daniel L.;LE BOURDONNEC, Bertrand;VOGETI, Lakshminarayana~ 33:US ~31:63/287,873 ~32:09/12/2021;33:US ~31:63/393,445 ~32:29/07/2022

2024/04456 ~ Complete ~54:IONIZABLE CATIONIC LIPIDS FOR RNA DELIVERY ~71:Arcturus Therapeutics, Inc., 10628 Science Center Drive, Suite 250, SAN DIEGO 92121, CA, USA, United States of America ~72: CHIVUKULA, Padmanabh;KARMALI, Priya Prakash;RAJAPPAN, Kumar;SAGI, Amit;TANIS, Steven~ 33:US ~31:63/278,242 ~32:11/11/2021

2024/04440 ~ Complete ~54:CONJUGATES COMPRISING A PHOSPHORUS (V) AND A CAMPTOTHECIN MOIETY ~71:TUBULIS GMBH, Am Klopferspitz 19a, Germany ~72: HELMA-SMETS, Jonas;KASPER, Marc-André;MACHUI, Paul;MAI, Isabelle;SCHMITT, Saskia;SCHUMACHER, Dominik;VOGL, Annette~ 33:EP ~31:21207284.7 ~32:09/11/2021

2024/04446 ~ Complete ~54:FLOW CALMING ASSEMBLY FOR NUCLEAR REACTOR, AND ASSOCIATED REACTOR AND METHOD ~71:FRAMATOME, 1 place Jean Millier, France ~72: CAHOUET, Laurent;GAILLARD, Aurélien;MARTINEZ, Philippe;POLLIER, Denis;VAYSSETTE, Bastien~

2024/04454 ~ Complete ~54:METHOD OF PROTEIN PURIFICATION ~71:Ferring B.V., Polaris Avenue 144, HOOFDDORP 2132 JX, THE NETHERLANDS, Netherlands ~72: AHARONOV, Jenny;EREZ, Elinor;KAMHI, Eyal;MINTZ, Michelle~ 33:EP ~31:21213254.2 ~32:08/12/2021

2024/04437 ~ Complete ~54:A RECONNAISSANCE PATH PLANNING SYSTEM FOR UNMANNED AERIAL VEHICLE BASED ON WIRELESS COMMUNICATION TECHNOLOGY ~71:Shanghai Technical Institute of Electronics &Information, No. 3098, Wahong Highway, Fengxian District, Shanghai City, 201411, People's Republic of China ~72: Pengyu Li;Yuanchun Shang;Yunqing Li~

2024/04441 ~ Complete ~54:CONJUGATES COMPRISING A PHOSPHORUS (V) AND A DRUG MOIETY ~71:FORSCHUNGSVERBUND BERLIN E.V., Rudower Chaussee 17, Germany;TUBULIS GMBH, Am Klopferspitz 19a, Germany ~72: HACKENBERGER, Christian;HELMA-SMETS, Jonas;JAHZERAH, Jahaziel;KASPER, Marc-André;MACHUI, Paul;MAI, Isabelle;OCHTROP, Philipp;SCHUMACHER, Dominik~ 33:EP ~31:21207195.5 ~32:09/11/2021

2024/04442 ~ Complete ~54:SOLAR POWERED ROOF VENTILATOR ~71:ISWIRL PTY LTD, 8 Carcoola Rd St Ives, Australia ~72: BURMAN, Brian~ 33:AU ~31:2021904050 ~32:14/12/2021

2024/04451 ~ Complete ~54:HAIR IMPLANTS COMPRISING ENHANCED ANCHORING AND MEDICAL SAFETY FEATURES ~71:Loria Hair Implant Company LLC, 3625 NW 82nd Avenue, Suite 402, MIAMI 33166, FL, USA, United States of America ~72: LORIA, Victor~ 33:US ~31:17/523,472 ~32:10/11/2021

2024/04453 ~ Complete ~54:STABLE FORMULATIONS COMPRISING A BISPECIFIC BCMA/CD3 ANTIBODY ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: CHOUDHARI, Shyamal;MISTILIS, Matthew Joseph;MUZAMMIL, Salman~ 33:US ~31:63/277,885 ~32:10/11/2021

2024/04458 ~ Complete ~54:PREMIX FOR FOOD PRODUCTS ~71:McCain Foods Limited, 8800 Main Street, FLORENCEVILLE-BRISTOL E7L 1B2, NEW BRUNSWICK, CANADA, Canada ~72: GERROW, Sherri Lee~ 33:US ~31:63/278,009 ~32:10/11/2021

2024/04448 ~ Complete ~54:CALCIFEROLS TO REDUCE ENVIRONMENTAL IMPACT OF RODENTICIDES ~71:Discovery Purchaser Corporation, 1209 Orange St., WILMINGTON 19801, DE, USA, United States of America ~72: ENDEPOLS, Stefan~ 33:EP ~31:21207321.7 ~32:09/11/2021

2024/04461 ~ Complete ~54:DRUG DELIVERY DEVICE FIXTURE FOR TESTING SYSTEM AND METHODS THEREFOR ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York,

10591, United States of America ~72: ELIZABETH HANCHAR;TREVOR LANGLEY;WESLEY MAHUNIK~ 33:US ~31:63/287,500 ~32:08/12/2021

2024/04445 ~ Complete ~54:COMPLEMENT FACTOR-I FORMULATIONS ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, United States of America ~72: BALAN, Sibu;CHATTERJI, Anju;CONNOLLY, Brian David;SHAN, Bing~ 33:US ~31:63/293,013 ~32:22/12/2021

2024/04459 ~ Complete ~54:CDK4 AND 6 INHIBITOR IN COMBINATION WITH FULVESTRANT FOR THE TREATMENT OF HORMONE RECEPTOR-POSITIVE, HUMAN EPIDERMAL GROWTH FACTOR RECEPTOR 2-NEGATIVE ADVANCED OR METASTATIC BREAST CANCER IN PATIENTS PREVIOUSLY TREATED WITH A CDK4 AND 6 INHIBITOR ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: LITCHFIELD, Lacey Morgan;MORATO GUIMARAES, Claudia~ 33:US ~31:63/288,179 ~32:10/12/2021;33:US ~31:63/321,218 ~32:18/03/2022

2024/04463 ~ Complete ~54:BACTERIAL STRAINS FOR TREATING DISEASE ~71:MICROBA IP PTY LTD, GPO Box 469 Brisbane, Queensland 4001, Australia ~72: LUTZ KRAUSE;PÁRAIC Ó CUÍV~ 33:AU ~31:2021903624 ~32:11/11/2021

2024/04436 ~ Complete ~54:SHENPU OINTMENT FOR TREATING PERIANAL ECZEMA AND PRURITUS AND PREPARATION METHOD ~71:ZHANG, Shanghua, No. 58, Lushan Road, Yuelu District, Changsha City, Hunan Province, 410006, People's Republic of China ~72: ZHANG, Shanghua~

2024/04450 ~ Complete ~54:OVERHEAD LINE CLAMP ~71:Gripple Limited, The Old West Gun Works, Savile Street East, SHEFFIELD S4 7UQ, SOUTH YORKSHIRE, UNITED KINGDOM, United Kingdom ~72: BARNES, Samuel~ 33:GB ~31:2117893.4 ~32:10/12/2021;33:GB ~31:2218241.4 ~32:05/12/2022

2024/04457 ~ Complete ~54:METHOD FOR CULTIVATING FRUIT TREES WITH HIGH WATER CONSUMPTION IN PLANT POTS FOR INTENSIVE AND SUSTAINABLE FRUIT PRODUCTION ~71:GUILOFF SALVADOR, Martín Abraham, Avenida Presidente Riesco 5711 oficina 1603, Las, Condes, SANTIAGO, CHILE, Chile ~72: GUILOFF SALVADOR, Martín Abraham~ 33:CL ~31:3304-2021 ~32:10/12/2021

2024/04460 ~ Complete ~54:HETEROCYCLIC COMPOUNDS AS KIT KINASE INHIBITORS ~71:Deciphera Pharmaceuticals, LLC, 200 Smith Street, WALTHAM 02451, MA, USA, United States of America ~72: AHN, Yu Mi;CALDWELL, Timothy;FLYNN, Daniel L.;LE BOURDONNEC, Bertrand~ 33:US ~31:63/287,857 ~32:09/12/2021;33:US ~31:63/329,674 ~32:11/04/2022

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2024/04486 ~ Complete ~54:INFANT FEEDING ASSEMBLY AND METHOD OF STERILISING ~71:Mayborn (UK) Limited, Mayborn House, Balliol Business Park, NEWCASTLE UPON TYNE NE12 8EW, TYNE AND WEAR, UNITED KINGDOM, United Kingdom ~72: BILTON, Simon Lewis;CUDWORTH, Nicholas;HUME, Joshua;KETTYLE, Matthew Scott~ 33:GB ~31:2116378.7 ~32:12/11/2021

2024/04489 ~ Complete ~54:INTER-ARCH COMPONENT (IAC), USE OF SUCH AN IAC, AND METHOD FOR PRODUCING AN INTRAORAL PROTECTOR (IOP) WITH SUCH AN IAC ~71:Centre Hospitalier Universitaire de Bordeaux, 12 rue Dubernat, TALENCE CEDEX 33404, FRANCE, France;Universite de Bordeaux, 35 Place Pey Berland, BORDEAUX 33000, FRANCE, France ~72: POISSON, Philippe~ 33:FR ~31:2113793 ~32:17/12/2021

2024/04497 ~ Complete ~54:TREATMENT OF B CELL MALIGNANCIES ~71:ADICET THERAPEUTICS, INC., 1000 Bridge Pkwy, Redwood City, California, 94065, United States of America ~72: BLAKE T AFTAB;FRANCESCO GALMI;ORI MALLER;ROSE KAMYEE LAI~ 33:US ~31:63/286,086 ~32:05/12/2021

2024/04496 ~ Complete ~54:MANABODIES TARGETING P53 TUMOR ANTIGENS AND METHODS OF USING ~71:THE JOHNS HOPKINS UNIVERSITY, 3400 North Charles Street, Baltimore, Maryland, 21218, United States of America ~72: BERT VOGELSTEIN;BRIAN J MOG;EMILY HAN-CHUNG HSIUE;KATHARINE M WRIGHT;KENNETH W KINZLER;NICKOLAS PAPADOPOULOS;SANDRA B GABELLI;SARAH DINAPOLI;SHIBIN ZHOU~ 33:US ~31:63/290,353 ~32:16/12/2021

2024/04466 ~ Complete ~54:INSULATING GLASS TESTING DEVICE ~71:Zhejiang Green Glass Industry Co., Ltd., Juyu Town Industrial Park, Wencheng County, Wenzhou City, Zhejiang Province, People's Republic of China ~72: Dongbao Lei;Fen Ren;Weijun Jiang;Yanhong Wu;Zhongbiao Zhong~

2024/04469 ~ Complete ~54:TAURINE SUPPLEMENTED CELL CULTURE MEDIUM AND METHODS OF USE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CASEY, Meghan, E.;JOHNSON, Amy, S.;LAWRENCE, Shawn;OSHODI, Shadia~ 33:US ~31:62/200,689 ~32:04/08/2015

2024/04472 ~ Complete ~54:ELECTRIC TOOL ~71:KEYSTONE ELECTRICAL (ZHEJIANG) CO., LTD., 1158 South Longqian Street, Jinhua, Zhejiang, 321000, People's Republic of China ~72: JINWEI YANG;JINXING HUANG;JUNFU YU;LIWEI ZHAO;NING WU;QIBIN ZHAO;WEIPING DONG~ 33:CN ~31:2023108736031 ~32:15/07/2023

2024/04474 ~ Complete ~54:SYSTEM AND METHOD FOR REPURPOSING DRUGS AGAINST HUMAN PAPILLOMAVIRUS (HPV) E6 ~71:ELAVARASAN KANDASAMY, CONSULATNT SIDDHA-AYUSH CLINIC, NEW BUILDING SOUTHERN RAILWAY HEADQUARTERS HOSPITAL, PERAMBUR, CHENNAI, TAMILNADU, 600023, India;ESWARAN THANGARAJU, TSM JAIN COLLEGE OF TECHNOLOGY, MELUR VILLAGE POST, KALLAKURICHI DISTRICT, 606201, India;KOTA SESHA BRAHMA SREE KRISHNA SASANKA, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, DEOGHAR PANCHAYAT TRAINING INSTITUTE, DABURGRAM JASIDIH, DEOGHAR, JHARKHAND, 814142, India;PRAKASH SRINIVASAN TIMIRI SHANMUGAM, SENIOR TOXICOLOGIST, AVANOS MEDICAL, INC, GEORGIA, United States of America;PUGAZHENTHAN THANGARAJU, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR, TATIBANDH,G E ROAD, CHHATTISGARH, 492099, India;SAJITHA VENKATESAN, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, RAIPUR, TATIBANDH,G E ROAD, CHHATTISGARH, 492099, India;SREE SUDHA TANGUTURI YELLA, ALL INDIA INSTITUTE OF MEDICAL SCIENCES, DEOGHAR, PANCHAYAT TRAINING INSTITUTE, DABURGRAM JASIDIH, DEOGHAR, JHARKHAND, 814142, India;TAMILSELVAN THANGARAJU, SHRI RAMASAMY MEMORIAL UNIVERSITY 5TH MILE, TADONG GANGTOK, 737102, EAST SIKKIM, India;VIJAYAKUMAR ARUMUGAM RAMAMURTHY, DEPARTMENT OF PHARMACOLOGY FACULTY OF PHARMACY SREE BALAJI MEDICAL COLLEGE AND HOSPITAL BIHER,CHENNAI, TAMILNADU, 600044, India ~72: ELAVARASAN KANDASAMY;ESWARAN THANGARAJU;KOTA SESHA BRAHMA SREE KRISHNA SASANKA;PRAKASH SRINIVASAN TIMIRI SHANMUGAM;PUGAZHENTHAN THANGARAJU;SAJITHA VENKATESAN;SREE SUDHA TANGUTURI YELLA;TAMILSELVAN THANGARAJU;VIJAYAKUMAR ARUMUGAM RAMAMURTHY~

2024/04477 ~ Complete ~54:WINDING BODY, HIGH-VOLTAGE WINDING AND DRY-TYPE TRANSFORMER ~71:JIANGSU SHEMAR ELECTRIC CO., LTD., No.66 Haiwei Road, Su-tong Science and Technology Park Nantong, People's Republic of China ~72: LIU, Chao;MA, Bin;MA, Tingting;ZHANG, Xiaorong;ZHANG, Xinxin~ 33:CN ~31:202111644185.6 ~32:29/12/2021;33:CN ~31:202111647922.8 ~32:29/12/2021

2024/04485 ~ Complete ~54:NIPPLE AND NIPPLE ASSEMBLY ~71:Mayborn (UK) Limited, Mayborn House, Balliol Business Park, NEWCASTLE UPON TYNE NE12 8EW, TYNE AND WEAR, UNITED KINGDOM, United Kingdom ~72: BILTON, Simon Lewis;CUDWORTH, Nicholas;HUME, Joshua;KANE, Grace McAlpine;KETTYLE, Matthew Scott;PARKINSON, Blake John~ 33:GB ~31:2116375.3 ~32:12/11/2021

2024/04488 ~ Complete ~54:SUSTAINABLE LUBRICANTS ~71:Evolve Lubricants, Inc., 3985 Warren Way, RENO 89509 , NV, USA, United States of America ~72: KIRKHAM Jr., Thomas L.;LEE, Richard D.~ 33:US ~31:63/277,986 ~32:10/11/2021;33:US ~31:63/277,989 ~32:10/11/2021;33:US ~31:63/277,990 ~32:10/11/2021;33:US ~31:63/278,939 ~32:12/11/2021;33:US ~31:63/287,465 ~32:08/12/2021

2024/04483 ~ Complete ~54:HOT-ROLLED STEEL SHEET, HOT-DIP COATED STEEL SHEET, AND METHOD FOR PRODUCING HOT-ROLLED STEEL SHEET ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 1008071, JAPAN, Japan ~72: HIRATA, Kentarou;OKA, Masaharu;SAITO, Mamoru;SAKAKI, Masahito~ 33:JP ~31:2021-185120 ~32:12/11/2021

2024/04499 ~ Complete ~54:A MAGNETIC TOROID AND A MAGNETICALLY ACTUATED ROTARY COUPLING DEVICE COMPRISING THEREOF ~71:Hermsen, Franciscus Johannes, 12-1 Suasana Bukit Ceylon, 2 Persiaran Raja Chulan, Wilayah Persekkutuan Kuala Lumpur, 50200, Malaysia ~72: Hermsen, Franciscus Johannes~ 33:MY ~31:PI2022000412 ~32:20/01/2022

2024/04468 ~ Complete ~54:A METHOD FOR FORMING A DEMINERALIZED BONE MATRIX AND PROMOTING ITS VASCULARIZATION ~71:Shanxi Medical University, No. 56, Xinjian South Road, Yingze District, Taiyuan City, Shanxi Province, 030001, People's Republic of China;Shanxi University of Chinese Medicine, No. 89, Section 1, Jinci Road, Taiyuan City, Shanxi Province, 030024, People's Republic of China ~72: Jianru Wang;Yumin Zhang~ 33:CN ~31:202311178652.X ~32:13/09/2023

2024/04478 ~ Complete ~54:DEVICE AND SYSTEM FOR AQUEOUS WAVE MEASUREMENT ~71:ALLEN, Theodore, 1882 Hickory Lane Atlantic Beach, United States of America ~72: ALLEN, Theodore~ 33:US ~31:63/287,346 ~32:08/12/2021

2024/04481 ~ Complete ~54:PROCESS FOR THE PYROLYSIS OF SUBSTANTIALLY PLASTICS MATERIAL OF INCONSTANT COMPOSITION, RELATIVE REACTOR, APPARATUS AND PRODUCT OBTAINED ~71:VERSALIS S.P.A., Piazza Boldrini, 1, Italy ~72: ASSANDRI, Fabio;FELISARI, Riccardo;FERRANDO, Angelo;GALEOTTI, Armando;NODARI, Mirco;PONTICIELLO, Antonio~ 33:IT ~31:102021000033044 ~32:30/12/2021

2024/04495 ~ Complete ~54:COMPOUND CONTAINING CYCLOALKYL OR HALOALKYL ~71:CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., No. 369 Yuzhou South Rd., Lianyungang, Jiangsu, 222062, People's Republic of China ~72: CHENG REN;FEI LIU;HONGJIANG XU;TAOTAO FENG;WEI SHI;XIQUAN ZHANG;YAN PENG~ 33:CN ~31:202111441498.1 ~32:30/11/2021;33:CN ~31:202111638379.5 ~32:29/12/2021;33:CN ~31:202210564004.7 ~32:23/05/2022;33:CN ~31:202210889925.0 ~32:27/07/2022;33:CN ~31:202211492694.6 ~32:25/11/2022

2024/04479 ~ Complete ~54:USE OF N-(3-(4-(3-(DIISOBUTYLAMINO)PROPYL)PIPERAZIN-1-YL)PROPYL)-1H-BENZO[D]IMIDAZOL-2-AMINE SUCCINATE SALTS AND SOLVATES THEREOF FOR THE TREATMENT OF MOTOR NEURON DISEASES AND NEUROMUSCULAR JUNCTION DISORDERS ~71:ALZPROTECT, Parc Eurasanté - Le Galenis 85 C rue Nelson Mandela, France ~72: BRANTIS, Cyrille;BURLET, Stéphane;CALLIZOT, Noëlle;ESTRELLA, Cécilia;VERWAERDE, Philippe~ 33:EP ~31:21306863.8 ~32:20/12/2021

2024/04492 ~ Complete ~54:CONNECTED PACKAGING AND ASSOCIATED ACTIVATION METHOD ~71:UnaBiz, 425, Rue Jean Rostand, LABEGE 31670, FRANCE, France ~72: CHALBOS, Nicolas;JELOYAN, Christophe~ 33:FR ~31:2112077 ~32:15/11/2021

2024/04467 ~ Complete ~54:A CURCUMIN-RESVERATROL PROTEIN-BASED NANOFIBER FILM, A PREPARATION METHOD AND APPLICATION THEREOF ~71:Jilin Agricultural University, No. 2888, Xincheng

Street, Nanguan District, Changchun City, Jilin Province, 130118, People's Republic of China ~72: Hao Zhang;Jin Gu;Jingsheng Liu;Tiantong Lan~ 33:CN ~31:202310800257.4 ~32:03/07/2023

2024/04484 ~ Complete ~54:FUNGICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BOYLES, Claire;WESLEY, Robin~ 33:EP ~31:21215713.5 ~32:17/12/2021

2024/04490 ~ Complete ~54:AGONISTIC LTBR ANTIBODIES AND BISPECIFIC ANTIBODIES COMPRISING THEM ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BIANCHI, Roberta;BORMANN, Felix;BRYDON, Michelle Victoria;DENGL, Stefan;DUERR, Harald;GEORGES, Guy;HANISCH, Lydia Jasmin;HEIDRICH, Monika;HOSSE, Ralf;KUNZ, Leo Frederik;LECLAIR, Stephane;LEISIBACH, Desirée;MENDE, Fanny;MUNDIGL, Olaf;NIKOLOV, Miroslav;UMAÑA, Pablo;WAGNER, Cornelia~ 33:EP ~31:21215804.2 ~32:20/12/2021;33:EP ~31:22208828.8 ~32:22/11/2022

2024/04470 ~ Complete ~54:TAURINE SUPPLEMENTED CELL CULTURE MEDIUM AND METHODS OF USE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: CASEY, Meghan, E.;JOHNSON, Amy, S.;LAWRENCE, Shawn;OSHODI, Shadia~ 33:US ~31:62/200,689 ~32:04/08/2015

2024/04475 ~ Complete ~54:A WEARABLE DEVICE FOR EARLY DETECTION OF PARKINSON'S DISEASE, AND A METHOD THEREOF ~71:Dr. Obada Al Khatib, 3.26, University of Wollongong Dubai, Dubai Knowledge Park, Dubai, Saudi Arabia;Dr. Soly Mathew Biju, B4,Shatataraka Complex, Pune, India;Manav, Discovery Gardens, Building 198, Street - 8, Dubai, Saudi Arabia ~72: Dr. Obada Al Khatib;Dr. Soly Mathew Biju;Manav~

2024/04482 ~ Complete ~54:DEVICE FOR LATERALLY GUIDING AN ENDLESS CONVEYOR BELT OF A TROUGH CONVEYOR ~71:Societe Financiere de Gestion, 139-141 rue du Luxembourg, ROUBAIX 59100, FRANCE, France ~72: ALTIMARI, Samuel;BENARD, Olivier~ 33:FR ~31:2113938 ~32:19/12/2021

2024/04491 ~ Complete ~54:REUSABLE AND/OR RECYCLABLE SMART PACKAGING ~71:UnaBiz, 425, Rue Jean Rostand, LABEGE 31670, FRANCE, France ~72: CHALBOS, Nicolas;JELOYAN, Christophe~ 33:FR ~31:2112078 ~32:15/11/2021

2024/04500 ~ Provisional ~54:BEARD SLICER ~71:ANTON ROBERT BONACICH, 125 STEVE BIKO STREET PRETORIA, South Africa ~72: ANTON ROBERT BONACICH~

2024/04473 ~ Complete ~54:VERTICAL KILN ~71:UNIVERSITY OF JOHANNESBURG, Cnr. Kingsway and University Roads Auckland Park, Johannesburg, 2006, South Africa ~72: ANTOINE MULABA;FREEMAN ELTHER DAVID SENZANI;LAGOUGE KWANDA TARTIBU;ROLLY KARODOLAN NDEKO KABINGA~ 33:ZA ~31:2023/06669 ~32:29/06/2023

2024/04487 ~ Complete ~54:NIPPLE AND NIPPLE ASSEMBLY ~71:Mayborn (UK) Limited, Mayborn House, Balliol Business Park, NEWCASTLE UPON TYNE NE12 8EW, TYNE AND WEAR, UNITED KINGDOM, United Kingdom ~72: BILTON, Simon Lewis;CUDWORTH, Nicholas;KANE, Grace McAlpine;KETTYLE, Matthew Scott;PARKINSON, Blake John~ 33:GB ~31:2116379.5 ~32:12/11/2021

2024/04493 ~ Complete ~54:PYROLYSIS PROCESS FOR THE PRODUCTION OF A PYROLYSIS OIL SUITABLE FOR CLOSED LOOP RECYCLING, RELATED APPARATUS, PRODUCT AND USE THEREOF ~71:VERSALIS S.P.A., Piazza Boldrini, 1, Italy ~72: BONACINI, Francesco;FELISARI, Riccardo;GALEOTTI, Armando;NODARI, Mirco~ 33:IT ~31:102021000033053 ~32:30/12/2021

2024/04471 ~ Complete ~54:QUICK-CHANGE DEVICE AND ELECTRIC TOOL ~71:KEYSTONE ELECTRICAL (ZHEJIANG) CO., LTD., 1158 South Longqian Street, Jinhua, Zhejiang, 321000, People's Republic of China ~72: JIANWEI ZHU;JUNFU YU;LIWEI ZHAO;NING WU;QIBIN ZHAO;RUNZE FU;WEIPING DONG~ 33:CN ~31:2023116072812 ~32:27/11/2023

2024/04480 ~ Complete ~54:ELECTROLYSIS APPARATUS FOR THE PRODUCTION OF IRON WITH AN IMPROVED GAS PERMEABLE ANODE PLATE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg;JOHN COCKERILL S.A., 1 Rue Jean Potier, Belgium ~72: Cédric FLANDRE;Hervé LAVELAINE DE MAUBEUGE;Luc VAN HEE~ 33:IB ~31:PCT/IB2021/061763 ~32:15/12/2021

2024/04494 ~ Complete ~54:TREATMENT OF LIVER DISORDERS WITH A THR-? AGONIST ~71:TERNS PHARMACEUTICALS, INC., 1065 E. Hillsdale Blvd., Suite 100, Foster City, California 94404, United States of America ~72: CHRISTOPHER T JONES;D. BARRY CRITTENDEN;ERIN K QUIRK;FENG JIN;JIANWEI BIAN;KEVIN KLUCHER;MATT DUAN;QIANQIAN DONG;SHENG GUO~ 33:CN ~31:PCT/CN2021/130083 ~32:11/11/2021;33:CN ~31:PCT/CN2022/097426 ~32:07/06/2022

2024/04498 ~ Complete ~54:RECOMBINANT PROTEIN FOR SARS-COV2 DISEASE ~71:UNICHEM LABORATORIES LIMITED, Unichem Bhavan, Prabhat Estate, Off. S.V. Road, Jogeshwari (W), Mumbai, Maharashtra, 400102, India ~72: IYAPPAN, Saravanakumar;SATHE, Dhananjay~ 33:IN ~31:202121058651 ~32:16/12/2021

2024/04501 ~ Provisional ~54:VOICE ASSIST TOOL ~71:SAKHILE HOPEWELL NTULI, 9042 Siyanqoba, South Africa ~72: SAKHILE HOPEWELL NTULI~

2024/04465 ~ Provisional ~54:A PROMPT GENERATOR ~71:SNYMAN, Henrie, 331 FURROW ROAD, NO. 25 PALMOROSA, EQUESTRIA, PRETORIA, 0184, SOUTH AFRICA, South Africa ~72: SNYMAN, Henrie~

2024/04476 ~ Complete ~54:A GRIP STRENGTH MEASURING SYSTEM AND A METHOD THEREOF ~71:Dr.Soly Mathew Biju, B4,Shatatatara Complex,47 Aundh Road, Range Hills PO 411020, Pune, Maharashtra, India;Prof. Farhad Oroumchian, PoBox 74507, Dubai, Saudi Arabia ~72: Dr.Soly Mathew Biju;Prof. Farhad Oroumchian~

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2024/04504 ~ Provisional ~54:ANTENNA ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: DE VILLIERS Kari;LOUW Gerhard Brink~

2024/04506 ~ Provisional ~54:A STOWAGE ASSEMBLY ~71:GALLOP, Colin, 1388 MUSTANG DRIVE, ZANDSPRUIT BUSH AND AERO ESTATE, HOEDSPRUIT, LIMPOPO, 1380, SOUTH AFRICA, South Africa ~72: GALLOP, Colin~

2024/04507 ~ Provisional ~54:HEATING METHOD, SYSTEM, AND PROCESS ~71:CIP-FZCO, Dubai Silicon Oasis, Free Zone, Dubai 341041, UNITED ARAB EMIRATES, United Arab Emirates ~72: BERRETTONI, Marco~

2024/04516 ~ Complete ~54:DEVICE AND METHOD FOR CATCHING AND KILLING CNAPHALOCROCIS MEDINALIS ~71:Xinyang City Academy of Agricultural Sciences, No. 20, Minquan South Road, Xinyang City, Henan Province, 464000, People's Republic of China ~72: Fang Ling;He Shijie;Hu Yang;Lei Haixia;Li Huilong;Li Shanshan;Miao Shuangzhen;Ran Zhongwei;Wang Xiaoxiao;Yang Guang;Yu Yanfang;Zhao Haiying;Zhou Lili;Zhu Junde~ 33:CN ~31:2023115462977 ~32:20/11/2023

2024/04517 ~ Complete ~54:AN AUTOMATIC CLIMBING ROBOT FOR UNMANNED DOCKING OF A SINGLE-COLUMN STEEL PIPE RODS ~71:State Grid Anhui Electric Power Company Limited, No. 9, Huangshan Road,

Baohe District, Hefei City, Anhui Province, People's Republic of China ~72: Chen Jianhua;Jin Xingfu;Liu Zhixiang;Luo Yihua;Wang Hongchun;Wang Peng;Xi Zhaocai;Yang Shaochun;Yao Lanbo;Yu Gang;Zhang Jinfeng;Zhang Yongnai~

2024/04523 ~ Complete ~54:DIAPHRAGM PUMP WITH OFF-SET BALL CHECK VALVE AND ELBOW CAVITY ~71:WARREN RUPP, INC., 800 N. Main Street, Mansfield, Ohio, 44902, United States of America ~72: BRENT MORRIS;JIM ROCKWELL;MARK FRYE~ 33:US ~31:63/312,513 ~32:22/02/2022;33:US ~31:63/331,980 ~32:18/04/2022

2024/04532 ~ Complete ~54:AN ARTICLE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: AOUN, Walid Abi;BALAN, Catalin;CONNER, Billy;COX, Keri;JACKSON, Thaddeus;JAUREGUI, Juan Esteban Paz;MOLONEY, Patrick~ 33:US ~31:63/291,884 ~32:20/12/2021

2024/04505 ~ Provisional ~54:BUOY AND BUOY ASSEMBLY ~71:COCHRANE USA INC, 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: TBA~

2024/04522 ~ Complete ~54:PYRAZOLO FUSED RING COMPOUND AND USE THEREOF ~71:SOTER BIOPHARMA PTE. LTD., 1 Coleman Street, The Adelphi #08-01, Singapore, 179803, Singapore ~72: BAO YUE;CHANGQING WEI;CONG WANG;JIAN LI;QIANG GUO;SHUHUI CHEN;WENYUAN QIAN~ 33:CN ~31:202111342790.8 ~32:12/11/2021;33:CN ~31:202211358879.8 ~32:01/11/2022

2024/04513 ~ Complete ~54:G-4 APTAMER-BASED QDS ELECTROLUMINESCENT SENSOR AS WELL AS PREPARATION METHOD AND APPLICATION IN PB2+ DETECTION THEREOF ~71:Haikou Marine Geological Survey Center of China Geological Survey, No. 61 Xingyang Avenue, Meilan District, Haikou City, Hainan Province, 571127, People's Republic of China ~72: CHEN, Yan;LU, Yuwei;QI, Xin;TANG, Kai;WANG, Baoli;YANG, Feng;YANG, Xiujiu;ZHANG, Yuhang~

2024/04521 ~ Complete ~54:KNIFE MACHINE, AND APPARATUS AND METHOD FOR PROCESSING ANIMAL PRODUCTS ~71:NORDISCHER MASCHINENBAU RUD. BAADER GMBH + CO. KG, Geniner Str. 249 23560, Germany ~72: TYCHSEN, Werner~ 33:WO ~31:PCT/EP2021/081620 ~32:15/11/2021

2024/04526 ~ Complete ~54:ELECTRODE, AND USE AND PREPARATION METHOD THEREOF ~71:MAGNETO SPECIAL ANODES B.V., Calandstraat 109, 3125 BA, Schiedam, Netherlands ~72: ADRIAAN JEREMIASSE;MATIJA LOVRAK;QITE ZHAO~ 33:CN ~31:202210102406.5 ~32:27/01/2022

2024/04538 ~ Complete ~54:A METHOD OF MANUFACTURING AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM AND AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ASHRAF, Fahim;DIMMICK, Barry;RICHARDSON, John~ 33:GB ~31:2118566.5 ~32:20/12/2021

2024/04510 ~ Complete ~54:INTELLIGENT ULTRASONIC VIBRATION-ASSISTED CNC TURNING DEVICE AND METHOD THEREOF ~71:Anhui Pulimakang Intelligent Equipment Co., Ltd., Factory Building 3, Incubator, Jinqiao Avenue, Yi'an Economic Development Zone, Yi'an District, Tongling City, Anhui Province, People's Republic of China;Tongling University, No. 1335, Fourth Cuihu Road, Tongling, Anhui Province, People's Republic of China ~72: FANG, Jun;JIANG, Xiaoqin;LI, Zansong;WANG, Dongsheng;YANG, Youwen;ZHANG, Chao~ 33:CN ~31:2024106192009 ~32:18/05/2024

2024/04519 ~ Complete ~54:MACHINE MANAGEMENT BASED ON BATTERY STATUS ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 3501 N. FM Hwy 1417, United States of America ~72: LANE, Cameron, T.~ 33:US ~31:17/549,275 ~32:13/12/2021

2024/04525 ~ Complete ~54:PRODUCTS AND METHODS FOR IMPROVING PLANT GROWTH FEATURES ~71:APHEA.BIO NV, Technologiepark 21, 9052, Zwijnaarde, Belgium ~72: BEHNOUSH GHODSALAVI;ISABEL VERCAUTEREN;KELLY HAMONTS;STEVEN VANDENABEELE;TOM VIAENE~ 33:EP ~31:21218329.7 ~32:30/12/2021

2024/04529 ~ Complete ~54:AN AEROSOL PROVISION SYSTEM AND AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ASHRAF, Fahim;DIMMICK, Barry~ 33:GB ~31:2118585.5 ~32:20/12/2021

2024/04535 ~ Complete ~54:AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM AND A METHOD OF MANUFACTURING AN ARTICLE ~71:Nicoventures Trading Limited, 1 Water Street, Globe House, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: DIMMICK, Barry;JACKSON, Cortney R.~ 33:US ~31:63/265,725 ~32:20/12/2021

2024/04512 ~ Complete ~54:A METHOD FOR REMOVING IMPURITIES FROM THE CHROMIUM-BASED ALLOY ~71:Kunming University of Science and Technology, No.68, Wenchang Lane, Yi'eryi Street, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Guifang Zhang;Jincai Li;Li Zhang;Peng Yan;Pengchao Li;Qi Jiang;Weidong Zhao;Xiaoliang Wang;Xinchen Pang;Yuandong Yan;Zhixiang Xiao~

2024/04524 ~ Complete ~54:SCREEN FILTER SUCTION NOZZLE ~71:NETAFIM LTD, 10 Derech Hashalom, Tel-Aviv, 67892, Israel ~72: AMIT GILBOA~ 33:US ~31:63/293,093 ~32:23/12/2021

2024/04533 ~ Complete ~54:APPARATUS FOR MANUFACTURING A ROD OF AEROSOL GENERATING MATERIAL, METHODS OF MANUFACTURING A ROD OF AEROSOL GENERATING MATERIAL AND METHODS OF MANUFACTURING AN ARTICLE FOR AN AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: DIMMICK, Barry;RICHARDSON, John~ 33:GB ~31:2118570.7 ~32:20/12/2021

2024/04503 ~ Provisional ~54:COMMUNICATION MANAGEMENT SYSTEM WITH VOIP, NORMAL CALLING AND CRYPTOCURRENCY COIN BASED INCENTIVE MECHANISM ~71:TYRONE BEDESSY, 12 SOLSTICE ROAD, FLAT 101, THE ZONE, South Africa ~72: Tyrone Bedessy~ 33:ZA ~31:Not Available yet ~32:10/06/2024

2024/04509 ~ Complete ~54:A NOVEL FORMULATION FOR DRY EYE AND PROCESS THEREOF ~71:Suria Eye Product Pvt Ltd, Suria Eye Products Pvt. Ltd. BIO-Nest Incubation Centre, National Institute of Pharmaceutical Education and Research (NIPER)-Guwahati, Sila Katamur (Halugurisuk), Changsari, Dist: Kamrup, Assam, 781101, India ~72: Dr. Syed Nazrin Ruhina Rahman;Dr. Tamilvanan Shunmugaperumal;Dr. U.S.N. Murthy;Mrs. Suriaprabha Marchen~ 33:IN ~31:202431013359 ~32:24/02/2024

2024/04520 ~ Complete ~54:STEVIA REBAUDIANA RESIDUE FERMENTED FEED ADDITIVE FOR IMPROVING PRODUCTION PERFORMANCE OF LIVESTOCK AND POULTRY AND PREPARATION METHOD THEREOF ~71:NORTHEAST AGRICULTURAL UNIVERSITY, NO. 600 CHANGJIANG ROAD, People's Republic of China ~72: FENG, Xu;FENG, Yanzhong;HE, Fumeng;KONG, Xiangfeng;LI, Fenglan;LIU, Dan;WANG, Xue;WANG, Yingnan;WANG, Yongqi~

2024/04528 ~ Complete ~54:ANTI-CD24 ANTIBODY AND USE THEREOF ~71:Beijing Kanghong Biomedical Co., Ltd, No.5 Xinghai 1st Street, Beijing Economic-Technological Development Area, Daxing District, BEIJING 100176, CHINA (P.R.C.), People's Republic of China ~72: FENG, Xiao;KE, Xiao;LEI, Gang;LI, Jianhong;REN, Pengfei~ 33:CN ~31:202111487167.1 ~32:07/12/2021

2024/04508 ~ Complete ~54:FROTH-CONTROLLED FLOTATION METHOD FOR MICRO-FINE ZINC OXIDE ORE ~71:Kunming University of Science and Technology, No. 253 Xuefu Road, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: FENG, Qicheng;LIAO, Runpeng;MIAO, Yongchao;SHEN, Zhihao;WEN, Shuming;ZHANG, Qian;ZHAO, Wenjuan~ 33:CN ~31:202310987059.3 ~32:08/08/2023

2024/04515 ~ Complete ~54:APPARATUS FOR TESTING COMPUTER CHIP PACKAGING AND USE METHOD THEREFOR ~71:Zaozhuang Vocational College, No. 2169, Qilianshan Road, Xincheng District, Zaozhuang City, Shandong Province, People's Republic of China ~72: Guan Jing;Xin Qingchun;Yan Jinrong;Zhang Xi;Zhao Xu~

2024/04518 ~ Complete ~54:HETEROCYCLIC COMPOUNDS AS DYRK1A INHIBITORS ~71:PROTHENA BIOSCIENCES LIMITED, 77 Sir John Rogerson's Quay, Block C, Grand Canal Docklands, Ireland ~72: DE LOMBAERT, Stéphane~ 33:US ~31:63/288,155 ~32:10/12/2021;33:US ~31:63/288,184 ~32:10/12/2021;33:US ~31:63/288,190 ~32:10/12/2021

2024/04536 ~ Complete ~54:AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM AND A METHOD OF MANUFACTURING AN ARTICLE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ASHRAF, Fahim;DIMMICK, Barry;RICHARDSON, John~ 33:GB ~31:2118564.0 ~32:20/12/2021

2024/04530 ~ Complete ~54:A CONSUMABLE FOR USE IN AN AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: DIMMICK, Barry;RICHARDSON, John~ 33:GB ~31:2118568.1 ~32:20/12/2021

2024/04534 ~ Complete ~54:AN AEROSOL GENERATING MATERIAL ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: DIMMICK, Barry~ 33:GB ~31:2118525.1 ~32:20/12/2021

2024/04511 ~ Complete ~54:UNMANNED AERIAL VEHICLE DEVICE FOR NOVEL ROTARY-WING ~71:MERRY WISER (JINHUA) TECHNOLOGY DEVELOPMENT CO., LTD, ROOM 9-07-08, BUILDING 1, HENGFENG BUILDING, SHUANGXI WEST ROAD, JIANGNAN STREET, People's Republic of China;XINGZHI COLLEGE ZHEJIANG NORMAL UNIVERSITY, NO.3388, YINGBIN AVENUE, People's Republic of China ~72: DUAN, Zhizhuang;HUANG, Ruiyang;HUANG, Yuyun;LIN, Guchong;ZHENG, Rui~

2024/04514 ~ Complete ~54:FIRE-RESISTANT AND HEAT-INSULATING COATING, PREPARATION METHOD AND HIGH-PRESSURE GAS CYLINDER CONTAINING THE SAME ~71:Sinoma Science & Technology(chengdu)Co.,Ltd, No.136 Pingtang East Road, Puxing Street (New Material Industry Functional Zone), Xinjin District, Chengdu, Sichuan, 611434, People's Republic of China ~72: GUO Yongzhi;HU Lei;LI Ming;LIU Bo;QI Na~ 33:CN ~31:2024103418287 ~32:25/03/2024

2024/04527 ~ Complete ~54:METHODS OF INCREASING BLOOD OXYGEN SATURATION ~71:ThermoLife International, LLC, 1220 E Hill St, SIGNAL HILL 90755, CA, USA, United States of America ~72: KRAMER, Ronald;NIKOLAIDIS, Alexandros~ 33:US ~31:63/113,114 ~32:12/11/2020;33:US ~31:63/148,517 ~32:11/02/2021;33:US ~31:63/232,852 ~32:13/08/2021

2024/04531 ~ Complete ~54:THREAD PITCH ~71:Sandvik Mining and Construction Tools AB, SANDVIKEN 81181, SWEDEN, Sweden ~72: HAMMARGREN, John~ 33:EP ~31:21209361.1 ~32:19/11/2021

2024/04537 ~ Complete ~54:AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM AND A METHOD OF MANUFACTURING AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM ~71:Nicoventures

Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ASHRAF, Fahim;DIMMICK, Barry~ 33:GB ~31:2118565.7 ~32:20/12/2021

. - APPLIED ON 2024/06/12 -

2024/04561 ~ Complete ~54:FERMENTED FEED ADDITIVE OF GANODERMA LUCIDUM FRUITING BODY FOR IMPROVING PRODUCTION PERFORMANCE OF LAYING HENS AND APPLICATION THEREOF ~71:NORTHEAST AGRICULTURAL UNIVERSITY, NO. 600 CHANGJIANG ROAD, People's Republic of China ~72: FENG, Yanzhong;HE, Fumeng;KONG, Xiangfeng;LI, Fenglan;WANG, Xue;YU, Li~

2024/04568 ~ Complete ~54:COMPOSITIONS AND METHODS FOR MODULATING THE INTESTINAL MICROBIOME ~71:Gelesis, LLC, 501 Boylston Street, Suite 6102, BOSTON 02116, MA, USA, United States of America ~72: CHIQUETTE, Elaine;DEMITRI, Christian;GOMEZ-GIL, Antonio;JONES, Bryan;RESCIGNO, Maria;SANNINO, Alessandro;SILVESTRI, Alessandra;ZOHAR, Yishai~ 33:US ~31:63/278,559 ~32:12/11/2021;33:US ~31:63/335,356 ~32:27/04/2022

2024/04573 ~ Complete ~54:SOLID DIAMIDE AND BIFENTHRIN FORMULATION FOR CONTROLLING INVERTEBRATE PESTS ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America;FMC IP TECHNOLOGY GMBH, Industrieplatz 1c, 8212, Neuhausen am Rheinfall, Switzerland ~72: ANDRÉS GARCIA MONTERO;CARLOS RAUL JURADO SYLVIA;DAVID AARÓN BURGOS CÓRDOVA;JOSÉ DEL REFUGIO MUÑOZ;LUANN RUE MARSHALL~ 33:US ~31:63/290,255 ~32:16/12/2021

2024/04578 ~ Complete ~54:LIMIT STOP ~71:JOINT-STOCK COMPANY "ATOMENERGOPROEKT", ul. Bakuninskaya, d. 7, Russian Federation;SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE, d. 24, et. 8, kab. 820, B. Ordynka street, Russian Federation ~72: KURIKOV, Nikolay Nikolayevich;MAGOLA, Igor Anatolyevich;MITICHKIN, Aleksandr Grigoryevich;TISHCHENKO, Aleksandr Yuryevich;VALAKH, Roman Andreyevich;VERNER, Aleksandr Alekseyevich~ 33:RU ~31:2021139685 ~32:29/12/2021

2024/04543 ~ Complete ~54:HYDRAULIC CONTROL SYSTEM FOR SELF-PROPELLED ALL-DAY GRAIN SPREADER ~71:SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES, No.19, Sangyuan Road, Licheng District, Jinan City, People's Republic of China ~72: LI, Qingjiang;LIANG, Weihong;LUO, Shuai;QIN, Fang;REN, Dongmei;SUN, Zhimin;ZHANG, Cuiying;ZHONG, Bo~

2024/04548 ~ Complete ~54:HIGH POWER ION BEAM GENERATOR SYSTEMS AND METHODS ~71:PHOENIX LLC, 2555 Industrial Drive, Monona, Wisconsin, 53713, United States of America ~72: ARNE KOBERNIK;CARL SHERVEN;CASEY LAMERS;CHRIS SEYFERT;EVAN SENGBUSCH;GABRIEL BECERRA;JIN LEE;LOGAN CAMPBELL;MARK THOMAS;MICHAEL TAYLOR;PRESTON BARROWS;ROSS RADEL;TYE GRIBB~ 33:US ~31:62/447,685 ~32:18/01/2017

2024/04549 ~ Complete ~54:DEMONSTRATION MODEL FOR PSYCHOLOGICAL BALANCE OF TRADITIONAL CHINESE MEDICINE ~71:LI, Yingbing, ROOM 602, NO.7, PEIXIN STREET, People's Republic of China ~72: LI, Yingbing~

2024/04558 ~ Complete ~54:PROCESSING METHOD, PROCESSING DEVICE, AND STORAGE MEDIUM ~71:SHENZHEN TRANSSION HOLDINGS CO., LTD., Room 1702-1703, Desay Building, No.9789 Shennan Road, Hi-tech Park, People's Republic of China ~72: LIU, Yutian~ 33:CN ~31:202310246090.1 ~32:15/03/2023

2024/04565 ~ Complete ~54:PROCESSES FOR THE PREPARATION OF THE CRYSTALLINE FORM A OF SELPERCATINIB. A RET INHIBITOR ~71:Loxo Oncology, Inc., 281 Tresser Blvd., STAMFORD 06901, CT, USA,

United States of America ~72: BHARDWAJ, Rajni Miglani;MERRITT, Jeremy Miles;SELBO, Jon Gordon~ 33:US ~31:63/288,777 ~32:13/12/2021;33:US ~31:63/422,542 ~32:04/11/2022

2024/04571 ~ Complete ~54:ANTI-TFR1 ANTIBODY MAB11-22.1 CONJUGATES FOR CANCER TREATMENT ~71:NORTHEAST PHARMACEUTICAL GROUP CO., LTD, Kunminghu Street, Shenyang Economic Technological Development District, People's Republic of China ~72: LU, Mason;MA, Qinhong~ 33:US ~31:17/542,948 ~32:06/12/2021

2024/04583 ~ Provisional ~54:SELF ADJUSTING GRAVY/SAUCE PERCOLATOR ~71:VAN ALTENA FAMILY TRUST, 24 ROMNEY STR, DE LA HAYE, BELLVILLE, South Africa ~72: ANTHONIE GERHARDUS VAN ALTENA~

2024/04567 ~ Complete ~54:AEROSOL-GENERATING COMPOSITIONS ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: AOUN, Walid Abi;HEPWORTH, Richard;MENDONCA, Kayster~ 33:GB ~31:2117953.6 ~32:13/12/2021

2024/04581 ~ Complete ~54:TANK FOR GARBAGE FILTRATION AND COLLECTION ~71:JOINT-STOCK COMPANY "ATOMENERGOPROEKT", ul. Bakuninskaya, d. 7, Russian Federation;SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE, d. 24, et. 8, kab. 820, B. Ordynka street, Russian Federation ~72: KOROBEINIKOV, Kirill Yuryevich;MATYUSHEV, Leonid Aleksandrovich;MITRYUKHIN, Andrey Gennadievich;SHAMRAY, Yevgeniya Leonidovna~ 33:RU ~31:2021139683 ~32:29/12/2021

2024/04539 ~ Provisional ~54:SPIKE CONTROL ~71:Maggy Dube, 917 Block M, Soshanguve, South Africa ~72: Maggy Dube~ 33:ZA ~31:1 ~32:11/06/2024

2024/04562 ~ Complete ~54:COMPOSITION AND METHOD FOR INHIBITING EXPRESSION OF PROTEIN LPA(APO(A)) ~71:SHANGHAI ARGO BIOPHARMACEUTICAL CO., LTD., 337 Shahe Road, J2026 Room 1_203, People's Republic of China ~72: SHAO, Pengcheng Patrick;SHU, Dongxu;XIA, Shiwei~ 33:CN ~31:PCT/CN2022/073415 ~32:24/01/2022

2024/04579 ~ Complete ~54:INCONTINENCE ARTICLE COMPRISING A CHANNEL ~71:PAUL HARTMANN AG, Paul-Hartmann-Str. 12, Germany ~72: BEYRLE, Andreas;BUCH, Tamara;EILERS, Jörg;VECHTER, Olga~ 33:DE ~31:10 2021 133 725.9 ~32:17/12/2021

2024/04542 ~ Complete ~54:ELBOW JOINT FIXING BRACE HAVING THERMOTHERAPY FUNCTION ~71:ZHONGNAN HOSPITAL OF WUHAN UNIVERSITY, No. 169, Donghu Road, Wuhan City, Hubei Province, 430062, People's Republic of China ~72: LI, Mingxing;SUN, Xuejiao~

2024/04547 ~ Complete ~54:METHODS FOR TREATING OR PREVENTING TTR-ASSOCIATED DISEASES USING TRANSTHYRETIN (TTR) IRNA COMPOSITIONS ~71:ALNYLAM PHARMACEUTICALS, INC., 300 Third Street 3rd Floor, Cambridge, Massachusetts, 02142, United States of America ~72: AMY CHAN;GABRIEL ROBBIE;HUSAIN Z ATTARWALA;JOHN VEST;VARUN GOEL~ 33:US ~31:62/435,127 ~32:16/12/2016

2024/04553 ~ Complete ~54:CIRCULATING AIR MODULE AND CIRCULATING AIR MODULE SYSTEM ~71:ENVOLA GMBH, MAX-BORN-STRASSE 2-4, 89081 ULM, GERMANY, Germany ~72: FRANZOI, Nicola;IHLE, Gerhard;KLAIBER, Felix;SCHECHNER, Alexander~ 33:DE ~31:10 2021 130 300.1 ~32:19/11/2021;33:DE ~31:10 2022 109 804.4 ~32:22/04/2022

2024/04559 ~ Complete ~54:CONTROL METHOD, COMMUNICATION DEVICE, AND STORAGE MEDIUM ~71:SHENZHEN TRANSSION HOLDINGS CO., LTD., Room 1702-1703, Desay Building, No.9789 Shennan

Road, Hi-tech Park, People's Republic of China ~72: HUANG, Chiunwei;HUANG, Wei;ZHU, Rongchang~ 33:CN ~31:202210532039.2 ~32:17/05/2022

2024/04563 ~ Complete ~54:IMMUNOGENIC COMPOSITIONS AND VACCINES IN THE TREATMENT AND PREVENTION OF INFECTIONS ~71:LONGHORN VACCINES AND DIAGNOSTICS, LLC, 7272 Wisconsin Ave, 9th Floor, United States of America ~72: FISCHER, Gerald W.;SEI, Clara J.~ 33:US ~31:63/278,759 ~32:12/11/2021;33:US ~31:63/333,780 ~32:22/04/2022

2024/04576 ~ Complete ~54:METHOD FOR MANUFACTURING A CORE CATCHER CANTILEVER TRUSS ~71:JOINT-STOCK COMPANY "ATOMENERGOPROEKT", ul. Bakuninskaya, 7, Russian Federation;SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE, d. 24, et. 8, kab. 820, B. Ordynka street, Russian Federation ~72: CHIKAN, Kristin Aleksandrovich;NEDOREZOV, Andrej Borisovich;SIDOROV, Aleksandr Stalevich;SIDOROVA, Nadezhda Vasilievna~ 33:RU ~31:2021139690 ~32:29/12/2021

2024/04544 ~ Complete ~54:POLYANILINE-GRAPHENE COMPOSITE MATERIAL AND PREPARATION METHOD THEREOF ~71:Hainan Tropical Ocean University, No.1 Yucai Road,Jiyang District, Sanya City, Hainan Province, People's Republic of China;Yazhou Bay Innovation Institute of Hainan Tropical Ocean University, Yazhou Bay Science and Technology City, Sanya City, Hainan Province, People's Republic of China ~72: CHEN Lifei;CHEN Qingrong;HOU Xun;LI Yu;WAN Wubo;WU Xiangen;YANG Bo~

2024/04551 ~ Complete ~54:CIRCULATING AIR AND CIRCULATING AIR MODULE SYSTEM ~71:ENVOLA GMBH, MAX-BORN-STRASSE 2-4, 89081 ULM, GERMANY, Germany ~72: FRANZOI, Nicola;IHLE, Gerhard;KLAIBER, Felix;SCHECHNER, Alexander~ 33:DE ~31:10 2021 130 300.1 ~32:19/11/2021;33:DE ~31:10 2022 109 804.4 ~32:22/04/2022

2024/04556 ~ Complete ~54:TEMPERATURE CONTROL FOR A ROTARY HEAD EXTRUDER ~71:FRITO-LAY NORTH AMERICA, INC., 7701 Legacy Drive, United States of America ~72: EGNATCHIK, Robert;MANEPALLI, Pavan;QUINTERO-FUENTES, Ximena~ 33:US ~31:17/552,928 ~32:16/12/2021

2024/04574 ~ Complete ~54:AQUEOUS SOLUTION COMPRISING A GLUTATHIONE SALT ~71:RENOVION, INC., 900 Martin Luther King, Jr. Blvd., Suite A, Chapel Hill, North Carolina, 27514, United States of America ~72: CAROLYN DURHAM;DANIEL W COPELAND;EDWARD J DELANEY~ 33:US ~31:63/296,405 ~32:04/01/2022

2024/04541 ~ Complete ~54:BATTERY PROTECTION DEVICE FOR NEW ENERGY VEHICLES ~71:CHONGQING COLLEGE OF ELECTRONIC ENGINEERING, No. 76 Daxue City East Road, Shapingba District, Chongqing, 401331, People's Republic of China ~72: WANG Yiying~

2024/04545 ~ Complete ~54:A IRIS RECOGNITION METHOD BASED ON CONVOLUTIONAL NEURAL NETWORKS ~71:Southwest university, Tiansheng Road 2, Beibei District, Chongqing, People's Republic of China ~72: Chou Junyi;Dong Tao;Hu Wenjie~ 33:CN ~31:202410579675X ~32:11/05/2024

2024/04554 ~ Complete ~54:EPOXIDATION CATALYST AND PROCESS FOR ITS PREPARATION ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: DE BAERDEMAEKER, Trees, Maria;MORMUL, Jaroslaw, Michael;PARVULESCU, Andrei-Nicolae;QIN, Feiyu;TELES, Joaquim, Henrique;YOKOI, Toshiyuki~ 33:EP ~31:21209524.4 ~32:22/11/2021

2024/04575 ~ Complete ~54:PROTEIN Z VARIANTS BINDING THYMIC STROMAL LYMPHOPOIETIN AND THEIR MEDICAL USE ~71:AFFIBODY AB, Scheeles väg 2, 171 65, Solna, Sweden ~72: ANNA EDVARDSSON;LINDVI GUDMUNDSDOTTER;SIAVASH KIJANI;SUSANNE KLINT~ 33:EP ~31:22155646.7 ~32:08/02/2022

2024/04552 ~ Complete ~54:COMPOSITION FOR TREATING MACULAR DEGENERATION COMPRISING NOVEL PEPTIDE ~71:EYEBIOKOREA, INC., 2F, 81 JINSA-RO 83BEONG-GIL, BUSANJIN-GU BUSAN 47397, REP OF KOREA, Republic of Korea ~72: AHN, Byul Nim;CHO, Yunseok;YANG, Jaewook~ 33:KR ~31:10-2021-0178126 ~32:13/12/2021;33:KR ~31:10-2022-0119589 ~32:21/09/2022

2024/04557 ~ Complete ~54:POLYNUCLEOTIDE COMPOSITIONS AND USES THEREOF ~71:PFIZER INC., 66 Hudson Boulevard East, New York, United States of America ~72: CHE, Ye;CHORRO, Laurent Olivier;DIAZ, Fernando Martin;DONALD, Robert George Konrad;LI, Jin;SILMON DE MONERRI, Natalie Clare;SIMON, Raphael~ 33:US ~31:63/290,895 ~32:17/12/2021;33:US ~31:63/384,607 ~32:22/11/2022

2024/04566 ~ Complete ~54:MAPT RNA INTERFERENCE AGENTS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: CALAMINI, Barbara;FRITSCHI, Sarah Katharina;GONZALEZ VALCARCEL, Isabel Cristina;MCCARTHY, Andrew Peter;MILES, Rebecca Ruth;PERKINS, Douglas Raymond;PHILLIPS, Keith Geoffrey;ROY, Kaushambi;WANG, Jibo;WU, Shih-Ying;YORK, Jeremy S.~ 33:US ~31:63/288,846 ~32:13/12/2021

2024/04570 ~ Complete ~54:MODIFIED AGROBACTERIA FOR EDITING PLANTS ~71:TROPIC BIOSCIENCES UK LIMITED, Norwich Research Park, Innovation Centre, United Kingdom ~72: GREEN, Robert Tristan;MAORI Eyal;RUDDER, Steven~ 33:GB ~31:2118416.3 ~32:17/12/2021

2024/04580 ~ Complete ~54:NUCLEAR FUEL CLADDING AND METHOD OF MANUFACTURING SUCH A CLADDING ~71:FRAMATOME, 1 place Jean Millier, Tour Areva, France ~72: BARBERIS, Pierre;BISCHOFF, Jérémy;BUCHANAN, Karl~ 33:FR ~31:2114546 ~32:27/12/2021

2024/04584 ~ Provisional ~54:SINU-X ~71:WINNIE MNEAGETANE MAGAGULA, STAND 255B EASTGATE, South Africa ~72: WINNIE MNEAGETANE MAGAGULA~

2024/04540 ~ Complete ~54:REAL-TIME FLUORESCENCE-SPECIFIC TAQMAN PRIMER PROBES AND METHOD FOR IDENTIFYING PHYTOLACCA AMERICANA ~71:CAIQ Centre for Biosafety,Sanya, Building T1, China Merchants Science and Technology Innovation Plaza, Science and Technology City, Sanya City, Hainan Province, 572024, People's Republic of China ~72: CHEN Hao;LI Mingfu;LV Jizhou;SONG Yun;XU Jin;ZHANG Mingzhe;ZHANG Yongjiang;ZHAO Wenjun~

2024/04546 ~ Complete ~54:A TEXT ENCRYPTION SYSTEM ~71:Southwest university, Tiansheng Road 2, Beibei District, Chongqing, People's Republic of China ~72: Chou Junyi;Dong Tao;Hu Wenjie~ 33:CN ~31:2024105794608 ~32:11/05/2024

2024/04550 ~ Complete ~54:A DECENTRALISED ENERGY SYSTEM FOR GENERATING ELECTRICITY ~71:Mutendwahothe Ramafamba, Stand no 789, South Africa ~72: Mutendwahothe Ramafamba~

2024/04560 ~ Complete ~54:PROCESSING METHOD, COMMUNICATION DEVICE AND STORAGE MEDIUM ~71:SHENZHEN TRANSSION HOLDINGS CO., LTD., Room 1702-1703, Desay Building, No.9789 Shennan Road, Hi-tech Park, People's Republic of China ~72: HUANG, Chiunwei;HUANG,Wei;LI, Tian;SHEN, Xingya;XIE, Yili~ 33:CN ~31:202310875608.8 ~32:18/07/2023

2024/04564 ~ Complete ~54:TRANSITION METAL COMPLEX HYDROFORMYLATION CATALYST PRECUROR COMPOSITIONS COMPRISING SUCH COMPOUNDS, AND HYDROFORMYLATION PROCESSES ~71:DOW TECHNOLOGY INVESTMENTS LLC, 2211 H.H. Dow Way Midland, United States of America ~72: LAROCHE, Christophe R.~ 33:US ~31:63/265,513 ~32:16/12/2021

2024/04572 ~ Complete ~54:IMPROVED ENZYMATIC MODIFICATION OF GALACTOLIPIDS IN FOOD ~71:INTERNATIONAL N&H DENMARK APS, Parallelvej 16, 2800, Kongens Lyngby, Denmark ~72: HELONG HAO;JENS FRISBAEK SØRENSEN;JORN BORCH SOE;KEFENG NI;LENE KRAGH;LONE BROEND MILLER;SVEND HAANING;TINA LILLAN JØERGENSEN;XINGXIANG XI;YUEPENG SHANG~ 33:CN ~31:PCT/CN2021/131128 ~32:17/11/2021

2024/04555 ~ Complete ~54:SYSTEM FOR CLIMATE-CONTROL OF INTERIOR SPACES OF A BUILDING ~71:ENVOLA GMBH, MAX-BORN-STRASSE 2-4, 89081 ULM, GERMANY, Germany ~72: FRANZOI, Nicola;IHLE, Gerhard;KLAIBER, Felix;SCHECHNER, Alexander~ 33:DE ~31:10 2021 130 300.1 ~32:19/11/2021;33:DE ~31:10 2022 109 804.4 ~32:22/04/2022

2024/04569 ~ Complete ~54:DRILLING AND BOLTING TOOL ~71:JOY GLOBAL UNDERGROUND MINING LLC, 40 Pennwood Place, Suite 100, Warrendale, United States of America ~72: BARTER, Justin;KOEKEMOER, Renier~ 33:US ~31:63/283,909 ~32:29/11/2021

2024/04577 ~ Complete ~54:SYSTEM AND METHOD FOR MONITORING AN APRON FEEDER ~71:METSO USA INC., 275 N. Corporate Drive, United States of America ~72: DUTTA, Sushanta;HUSTWICK, Richard;LEACH, Jesse~ 33:US ~31:17/560,426 ~32:23/12/2021

2024/04582 ~ Complete ~54:VACCINE PREPARATION ~71:HCEMM NONPROFIT KFT., Budapesti út 9, Hungary ~72: GRABUSCHNIG, Stefan~ 33:AT ~31:A 51010/2021 ~32:16/12/2021

. - APPLIED ON 2024/06/13 -

2024/04598 ~ Complete ~54:A STRONG ENERGY-ABSORBING ANCHOR BOLT TRAY ~71:University of Science and Technology Beijing, 30 Xueyuan Road, Haidian District, Beijing, 100083, People's Republic of China ~72: Chao TANG;Chengtian DING;Chenyu TANG;Fenhua REN;Kang DONG;Meifeng CAI;Peng LI;Pengjin YANG;Shengjun MIAO;Xiangfan SHANG;Yan LIU;Yu WANG;Zhengting DUAN~

2024/04607 ~ Complete ~54:FIXED CLOSURE FOR LONG-LIFE PACKAGE WITH AN ACCESS FOR ENTERAL NUTRITION EQUIPMENT FOR USE BY A CLOSED SYSTEM ~71:SANTOS LEITE, Ronaldo, Rua dos Navegantes, nº 59, Apto 202, Bairro Ganchos de Fora 88190-000, Brazil ~72: SANTOS LEITE, Ronaldo~ 33:BR ~31:1020210229144 ~32:13/11/2021

2024/04617 ~ Complete ~54:METHOD FOR PRODUCING INSULATION PRODUCTS BASED ON MINERAL FIBRES OR ORGANIC FIBRES OF NATURAL ORIGIN ~71:Saint-Gobain Isover, Tour Saint-Gobain, 12, Place de l'Iris, COURBEVOIE 92400, FRANCE, France ~72: SOISSON, Arnaud~ 33:FR ~31:2113776 ~32:17/12/2021

2024/04620 ~ Complete ~54:N-(3,5,5-TRIMETHYLCYCLOHEXYL)-N'-PHENYL P-PHENYLENEDIAMINE, AND SYNTHESIS METHOD THEREFOR ~71:Sennics Co., Ltd., Room 2304, No. 1200, Pudong Avenue, China (Shanghai) Pilot Free Trade Zone, SHANGHAI 200120, CHINA (P.R.C.), People's Republic of China ~72: GAO, Yang;LI, Shiwu;MIAO, Zhengan;QIU, Lingling;ZHANG, Pingting~ 33:CN ~31:202210004337.4 ~32:04/01/2022

2024/04625 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING TIGECYCLINE ~71:ZAMBON S.P.A., Via Lillo del Duca 10 20091 Bresso (MI), Italy ~72: CRISTINA VENEZIANI;GIOVANNI CAPONETTI;GIOVANNI TANGHERLINI;HEIKE BUTTI;LAURA ZANELLOTTI;LORETTA MAGGI~ 33:IT ~31:102021000031133 ~32:13/12/2021

2024/04586 ~ Provisional ~54:ATM CASH MANAGEMENT PROCESS ~71:SBV SERVICES (PROPRIETARY) LIMITED, SBV House, Corner of 11th Avenue and 8th Street, Houghton, JOHANNESBURG 2198, Gauteng, SOUTH AFRICA, South Africa ~72: NAUDE, Leonard Louw~

2024/04587 ~ Complete ~54:UNMANNED AERIAL VEHICLE-MOUNTED WATER QUALITY SAMPLING METHOD ~71:Hainan Aerial Science and Technology Co, Ltd., Seventh floor, Building A, Scientific Research Office Building, Comprehensive Service Center, Yazhou Bay Deep Sea Science and Technology City, Yazhou District, Sanya City, Hainan Province, People's Republic of China;Hainan Tropical Ocean University, No.1 Yucai Road, Jiyang District, Sanya City, Hainan Province, People's Republic of China;Ocean University of China Sanya Oceanographic Institution, Floor 7, Building 1, Yongyou Industrial Park, Yazhou Bay Science and Technology City, Sanya, Hainan, People's Republic of China;Tsinghua University, No. 30, Shuangqing Road, Haidian District, Beijing, People's Republic of China ~72: CHEN Hao;DU Jun;HUANG Hai;LI Bin;NIE Yaolong;REN Yong;WEI Haoming;XIE Wei;ZHAO Kaifeng;ZHAO Peihang~

2024/04632 ~ Provisional ~54:ROAD HAZARD ROBOT ~71:GRUNYUZA MICHAEL, 504 RUSSELS PLACE, SOPHIE DE BRUYN, South Africa ~72: GRUNYUZA MICHAEL~

2024/04588 ~ Complete ~54:HEAT DISSIPATING DEVICE FOR BATTERY MANAGEMENT OF NEW ENERGY VEHICLES ~71:CHONGQING COLLEGE OF ELECTRONIC ENGINEERING, No. 76 Daxue City East Road, Shapingba District, Chongqing, 401331, People's Republic of China ~72: WANG Yiying~

2024/04589 ~ Complete ~54:TENT FLAP WEIGHT ~71:ANDRE JAQUES COETZEE, 22 Die Meent, 510 Alandale Street, Elarduspark, South Africa;LOUISE COETZEE, 22 Die Meent, 510 Alandale Street, Elarduspark, South Africa ~72: ANDRE JAQUES COETZEE;LOUISE COETZEE~ 33:ZA ~31:2023/06622 ~32:28/06/2023

2024/04590 ~ Complete ~54:RAPID SEEDLING RAISING METHOD FOR PYRUS BETULAEFOLIA BUNGE ~71:Shandong Agricultural University, No. 61 Daizong Street, Tai'an City, Shandong Province, People's Republic of China;Shandong Institute of Pomology, No.66 Longtan Road, Tai'an City, Shandong Province, People's Republic of China ~72: DONG Ran;DONG Xiaochang;GUAN Qiuzhu;JIAO Huijun;LI Xinyu;RAN Kun;WANG Hongwei;WANG Jinghua;WEI Shuwei;ZHANG Chunmei~

2024/04602 ~ Complete ~54:ELECTRICAL GENERATOR SYSTEM ~71:INFINITE POWER COMPANY PTY LTD, 33 Jeays Road, Bowen Hills, QLD 2004, Australia ~72: WHITEHEAD, Steven Christopher~ 33:GB ~31:2118322.3 ~32:16/12/2021

2024/04631 ~ Provisional ~54:ECCLECTIC ~71:Monde Christopher Jonas, 135 Spondo Road Zwide,, South Africa;Zihona Marketing, 135 Spondo Road Zwide,, South Africa ~72: MONDE CHRISTOPHER JONAS~

2024/04606 ~ Complete ~54:CLINICAL SIGN DATA PROCESSING METHOD AND SYSTEM ~71:THE THIRD AFFILIATED HOSPITAL OF THE GUANGZHOU MEDICAL UNIVERSITY (GUANGZHOU CENTER FOR THE TREATMENT OF SEVERE PREGNANT AND LYING-IN WOMEN, GUANGZHOU ROUJI HOSPITAL), No. 63 Duobao Road, Liwan District, Guangzhou, Guangdong, 510150, People's Republic of China ~72: PAN, Yangjun;SHEN, Jian;XU, Yunhong~

2024/04595 ~ Complete ~54:RNA-GUIDED HUMAN GENOME ENGINEERING ~71:PRESIDENT AND FELLOWS OF HARVARD COLLEGE, 17 Quincy Street, Cambridge, Massachusetts, 02138, United States of America ~72: GEORGE M CHURCH;LUHAN YANG;PRASHANT MALI~ 33:US ~31:61/738,355 ~32:17/12/2012;33:US ~31:61/779,169 ~32:13/03/2013

2024/04612 ~ Complete ~54:METHODS FOR ENRICHMENT OF CIRCULAR RNA UNDER DENATURING CONDITIONS ~71:Flagship Pioneering Innovations VI, LLC, 55 Cambridge Parkway, 8th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: CURA, Anthony Joseph;DE BOER, Alexandra Sophie;FARB, Joshua Nathan;MANVAR, Dineshkumar;MISRA, Tushar Kanti;NELSON, Jennifer A.;PLUGIS, Nicholas McCartney~ 33:US ~31:63/291,185 ~32:17/12/2021

2024/04614 ~ Complete ~54:ENOL ETHER PROPERFUME ~71:Firmenich SA, 7, Rue de la Bergère, SATIGNY 1242, SWITZERLAND, Switzerland ~72: WOMACK, Gary Bernard~ 33:US ~31:63/289,339 ~32:14/12/2021;33:EP ~31:22151258.5 ~32:13/01/2022

2024/04618 ~ Complete ~54:FEEDBACK CUSTOMISATION FOR AN AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: LUKAN, Sean~ 33:US ~31:17/644,710 ~32:16/12/2021

2024/04621 ~ Complete ~54:COMPOSITIONS COMPRISING VORICONAZOLE INHALATION POWDER AND METHODS OF MANUFACTURE AND USE THEREOF ~71:TFF Pharmaceuticals, Inc., 1751 River Run, Suite 400, FORT WORTH 76107, TX, USA, United States of America ~72: CHRISTENSEN, Dale J.;KOLENG, John~ 33:US ~31:63/291,055 ~32:17/12/2021

2024/04626 ~ Complete ~54:HIGH PERFORMANCE ALPHA-AMYLASES FOR STARCH LIQUEFACTION ~71:DANISCO US INC., 925 Page Mill Road, Palo Alto, California, 94304, United States of America ~72: CHRIS LEEFLANG;FRANK KOOPMAN;KEFENG NI;MARC KOLKMAN;MARCO VAN BRUSSEL-ZWIJNEN;SANG-KYU LEE;SINA PRICELIUS;VELI ALKAN;ZHEN QIAN;ZHONGMEI TANG~ 33:US ~31:63/280,891 ~32:18/11/2021

2024/04596 ~ Complete ~54:CHIMERIC CYTOKINE RECEPTOR ~71:AUTOLUS LIMITED, The MediaWorks, 191 Wood Lane, London, W12 7FP, United Kingdom ~72: JAMES SILLIBOURNE;MARTIN PULÉ;MATTEO RIGHI;SHAUN CORDOBA;SHIMOBI ONUOHA;SIMON THOMAS~ 33:GB ~31:1514875.2 ~32:20/08/2015

2024/04604 ~ Complete ~54:METHOD FOR SYNTHESIZING FLUDIOXONIL INTERMEDIATE 2, 2-DIFLUORO-1, 3-BENZODIOXOLE-4-CARBOXALDEHYDE ~71:HUAIBEI LONGXI BIOTECHNOLOGY CO., LTD., No.1 Longxing Road, New Coal Chemical Synthetic Material Base,, Huaibei, Anhui, 235000, People's Republic of China;HUAIBEI NORMAL UNIVERSITY, 100 Dongshan Road, Huaibei, Anhui, 235000, People's Republic of China ~72: Baobing ZHU;Lei WANG;Manyi HAN;Ming GU;Shuang GU;Xiaopeng WANG;Yongxian SUN;Zhenguo ZHAO~ 33:CN ~31:202211741131.6 ~32:31/12/2022

2024/04609 ~ Complete ~54:GUN-MOUNTED TELESCOPING SUPPORT STAND APPARATUS ~71:Bushnell Holdings, Inc., 9200 Cody Street, OVERLAND PARK 66214, KS, USA, United States of America ~72: GREY, Garrett T.;THOMASON, Jacob R.~ 33:US ~31:63/289,917 ~32:15/12/2021;33:US ~31:63/289,989 ~32:15/12/2021

2024/04633 ~ Provisional ~54:LASER ACTIVATED TRUCK SCREEN ~71:GRUNYUZA MICHAEL, 504 RUSSELS PLACE, SOPHIE DE BRUYN, South Africa ~72: GRUNYUZA MICHAEL ~

2024/04585 ~ Provisional ~54:SYSTEM AND METHOD FOR CALCULATING A MORTALITY RISK SCORE BASED ON AN INDIVIDUAL'S NET ASSET VALUE AND DETERMINING A PREMIUM FOR A LIFE INSURANCE PRODUCT BASED ON THE MORTALITY RISK SCORE ~71:FIRST WORLD TRADER (PTY) LTD, 173 Oxford Road, Rosebank, South Africa ~72: OOSTHUIZEN, Almero;SAVAGE, Charles~

2024/04616 ~ Complete ~54:SINGLE MOLECULE GENOME- WIDE MUTATION AND FRAGMENTATION PROFILES OF CELL-FREE DNA ~71:The Johns Hopkins University, 3400 North Charles Street, BALTIMORE 21218, MD, USA, United States of America ~72: BRUHM, Daniel C.;SCHARPF, Robert B.;VELCULESCU, Victor E.~ 33:US ~31:63/290,017 ~32:15/12/2021

2024/04623 ~ Complete ~54:BICYCLIC INDAZOLE GLUCOCORTICOID RECEPTOR ANTAGONISTS ~71:CORCEPT THERAPEUTICS INCORPORATED, 149 Commonwealth Drive, United States of America ~72: DUFFY, Lorna;HORNSBY, Thomas;HUNT, Hazel Joan;HUNT, Peter;JOUANNEAU, Morgan;MILLS,

Mark;PHILLIPS, Andrew William;SMITH, Andrew James~ 33:US ~31:63/292,089 ~32:21/12/2021;33:US ~31:63/368,409 ~32:14/07/2022

2024/04628 ~ Complete ~54:MATERIAL DELIVERY SYSTEMS AND METHODS ~71:FMC CORPORATION, 2929 Walnut Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: DARRYL A MEADE;EDWARD LANG;MARK JEFFERSON WHITLEY;XUAN LI~ 33:US ~31:63/290,906 ~32:17/12/2021

2024/04630 ~ Complete ~54:DISPERSIBLE OIL-BASED SUSPENSION CONCENTRATE CONTAINING 3-(2-CHLORO-4-FLUORO-5-(3-METHYL-2,6-DIOXO-4-TRIFLUOROMETHYL-3,6-DIHYDROPYRIMIDINE-1(2H)-YL)PHENYL)-5-METHYL-4,5-DIHYDROISOXAZOLE-5-CARBOXYLIC ACID ETHYL ESTER AND PREPARATION METHOD THEREFOR ~71:NANTONG JIANGSHAN AGROCHEMICAL & CHEMICALS CO., LTD., No. 998, Jiangshan Road, Economic and Technological Development Zone, Nantong, Jiangsu, 226000, People's Republic of China ~72: DONG, Lei;FAN, Meiyun;WANG, Li;ZHAO, Yong;ZHU, Yanmei~ 33:CN ~31:202210457620.2 ~32:27/04/2022

2024/04592 ~ Complete ~54:DAMPING DEVICE FOR INTELLIGENT NETWORKED AUTOMOBILE ~71:CHONGQING COLLEGE OF ELECTRONIC ENGINEERING, No. 76 Daxue City East Road, Shapingba District, Chongqing, 401331, People's Republic of China ~72: FAN Mengyang~

2024/04600 ~ Complete ~54:SYSTEMS AND METHODS FOR IDENTIFYING MODIFICATIONS TO TERRAIN CHARACTERISTICS OF A WORKSITE FOR BATTERY PERFORMANCE ~71:CATERPILLAR INC., 100 NE Adams Street - AH9510, United States of America ~72: BRAUNSTEIN, Michael, D.~ 33:US ~31:17/553,894 ~32:17/12/2021

2024/04599 ~ Complete ~54:HETEROALICYCLIC DERIVATIVES AND THEIR USE IN THE TREATMENT OF CNS DISORDERS ~71:SUVEN LIFE SCIENCES LIMITED, 6th Floor, Serene Chambers, Road – 5, Avenue – 7, India ~72: BENADE, Vijay Sidram;BOGARAJU, Narsimha;GOYAL, Vinod Kumar;JASTI, Venkateswarlu;JAYARAJAN, Pradeep;MOHAMMED, Abdul Rasheed;NIROGI, Ramakrishna;PANDEY, Santosh Kumar;SHINDE, Anil Karbhari;SUBRAMANIAN, Ramkumar~ 33:IN ~31:202241001563 ~32:11/01/2022

2024/04619 ~ Complete ~54:STABLE SUSPOEMULSIONS ~71:Adama Agan Ltd., P.O. Box 262, Northern Industrial Zone, ASHDOD 7710001, ISRAEL, Israel ~72: HEVRONI, Liron;SERTCHOOK, Hanan;SILBERT, Gilad~ 33:EP ~31:21214710.2 ~32:15/12/2021

2024/04624 ~ Complete ~54:METHOD FOR PRODUCING ALDEHYDE, METHOD FOR PRODUCING ALCOHOL, AND CATALYST COMPOSITION ~71:MITSUBISHI CHEMICAL CORPORATION, 1-1, Marunouchi 1-chome, Chiyoda-ku, Tokyo, 1008251, Japan ~72: MASASHI MIYAKE;TAKASHI SATO~ 33:JP ~31:2021-202681 ~32:14/12/2021

2024/04629 ~ Complete ~54:CORONAVIRUS VACCINE FORMULATIONS ~71:NOVAVAX, INC., 21 Firstfield Road, Gaithersburg, United States of America ~72: MASSARE, Michael J.;SMITH, Gale;TIAN, Jing-Hui~ 33:US ~31:63/284,497 ~32:30/11/2021;33:US ~31:63/292,120 ~32:21/12/2021;33:US ~31:63/293,519 ~32:23/12/2021;33:US ~31:63/332,530 ~32:19/04/2022;33:US ~31:63/367,678 ~32:05/07/2022

2024/04594 ~ Complete ~54:JINGGANG HONEY POMELO EXTRACT CONTAINING NARINGIN AND PREPARATION METHOD THEREFOR ~71:Ji'an College, No. 133, Ji'an South Avenue, Jizhou District, Ji'an City, Jiangxi Province, 343000, People's Republic of China ~72: Feng Wenwen;Guo Qi;Hu Wenwen;Jin Yuanbao;Liu Yuying;Xiao Na;Xiao Xixiang;Zhou Huang~ 33:CN ~31:202410566188X ~32:09/05/2024

2024/04603 ~ Complete ~54:ENERGY CONSUMPTION PREDICTION FOR MACHINE ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: BRAUNSTEIN, Michael Dennis;LANE, Cameron Thomas~ 33:US ~31:17/554,810 ~32:17/12/2021

2024/04613 ~ Complete ~54:ALUMINIUM AND ZIRCONIUM-BASED MIXED OXIDE ~71:Rhodia Operations, 9 rue des Cuirassiers, Immeuble Silex 2 Solvay, LYON 69003, FRANCE, France ~72: NISHIMURA, Kaoru;OHTAKE , Naotaka;SASAKI, Toshihiro;SHOZUI, Tetsuya~ 33:EP ~31:21306679.8 ~32:01/12/2021

2024/04608 ~ Complete ~54:FIXED CLOSURE FOR LONG-LIFE PACKAGE WITH AN ACCESS FOR ENTERAL NUTRITION DEVICE FOR USE BY AN OPEN OR CLOSED SYSTEM ~71:SANTOS LEITE, Ronaldo, Rua dos Navegantes, nº 59, Apto 202, Bairro Ganchos de Fora 88190-000, Brazil ~72: SANTOS LEITE, Ronaldo~ 33:BR ~31:1020210229241 ~32:15/11/2021

2024/04611 ~ Complete ~54:CONVERTER FOR POWER SUPPLY OF MEDICAL DEVICES ~71:SIORES, Elias, Fthiotidos 27, ATHENS 11523, GREECE, Greece ~72: SIORES, Elias~ 33:GR ~31:20210100876 ~32:14/12/2021

2024/04615 ~ Complete ~54:METHODS AND DOSING REGIMENS COMPRISING A CDK2 INHIBITOR AND A CDK4 INHIBITOR FOR TREATING CANCER ~71:Pfizer Inc., 66 Hudson Boulevard East, NEW YORK 10001-2192, NY, USA, United States of America ~72: ANDERS, Lars;LI, Jerry;LIN, Tun Tun;VANARSDALE, Todd Lee;WEI, Ping;YANG, Jing~ 33:US ~31:63/285,457 ~32:02/12/2021

2024/04622 ~ Complete ~54:PIPERAZINE INDAZOLE GLUCOCORTICOID RECEPTOR ANTAGONISTS ~71:CORCEPT THERAPEUTICS INCORPORATED, 149 Commonwealth Drive, United States of America ~72: FORDYCE, Euan;GILLESPIE, Jonathan;HUNT, Hazel Joan;MILLS, Mark;MORRISON, Angus;PHILLIPS, Andrew William;PUGLIESE, Angelo;WASZKOWYCZ, Bohdan~ 33:US ~31:63/292,104 ~32:21/12/2021;33:US ~31:63/368,413 ~32:14/07/2022

2024/04627 ~ Complete ~54:FEED INLET STRUCTURE, BURNER AND METHOD FOR FEEDING MATERIAL TO BURNER ~71:METSO METALS OY, Rauhalanpuisto 9, 02230 Espoo, Finland ~72: AKI LAANINEN;JAANA ROMPPANEN;PETER BJÖRKLUND~

2024/04605 ~ Complete ~54:MULTI-NOZZLE PULVERIZED COAL GASIFICATION DEVICE AND CONTROL METHOD FOR STARTUP AND SHUTDOWN OF COAL GASIFICATION DEVICE ~71:CHANGZHENG ENGINEERING CO., LIMITED, No.141, Jinghai 4th Road, People's Republic of China ~72: DING, Jianping;JIANG, Congbin;JIANG, Deqiang;LI, Bo;LU, Yan;MA, Lin;PENG, Shu~ 33:CN ~31:202111361915.1 ~32:17/11/2021;33:CN ~31:202122822281.7 ~32:17/11/2021

2024/04610 ~ Complete ~54:TELESCOPING SUPPORT STAND APPARATUS ~71:Bushnell Holdings, Inc., 9200 Cody Street, OVERLAND PARK 66214, KS, USA, United States of America ~72: GREY, Garrett T.;THOMASON, Jacob R.~ 33:US ~31:63/289,917 ~32:15/12/2021;33:US ~31:63/289,989 ~32:15/12/2021

2024/04678 ~ Provisional ~54:MYMATRIC AI ~71:Mymatric AI, 01 Broadacres Drive, Fourways, South Africa ~72: Vuyisa Tafa~

2024/04601 ~ Complete ~54:MACHINE AND BATTERY SYSTEM PROGNOSTICS ~71:CATERPILLAR INC., 100 NE Adams Street - AH9510, United States of America ~72: BRAUNSTEIN, Michael, D.;LANE, Cameron, T.~ 33:US ~31:17/554,730 ~32:17/12/2021

2024/04591 ~ Complete ~54:REMOTE INTERCONNECTION SYSTEM OF SOLID HYDROGEN ENERGY ROBOT ~71:Guangzhou Civil Aviation College, NO.10 Xiangyun West Street, Jichang Road, Guangzhou City, Guangdong Province, People's Republic of China ~72: BAI Jiankun;HE Yanbin~

2024/04597 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING HEMOGLOBINOPATHIES ~71:BEAM THERAPEUTICS INC., 26 Landsdowne Street 2nd Floor, Cambridge, Massachusetts, 02139, United States of America ~72: BERND ZETSCHE;DAVID A BORN;IAN SLAYMAKER;MICHAEL PACKER;NICOLE GAUDELLI;SEUNG-JOO LEE;YI YU~ 33:US ~31:62/805,271 ~32:13/02/2019;33:US ~31:62/805,277 ~32:13/02/2019;33:US ~31:62/852,224 ~32:23/05/2019;33:US ~31:62/852,228 ~32:23/05/2019;33:US ~31:62/931,722 ~32:06/11/2019;33:US ~31:62/931,747 ~32:06/11/2019;33:US ~31:62/941,569 ~32:27/11/2019;33:US ~31:62/966,526 ~32:27/01/2020

2024/04593 ~ Complete ~54:TREATMENT OF PSORIASIS ~71:HASSEN, Mohammed Ameen, 1315 Illovo Central, 70 Melville Road, Illovo, Johannesburg 2196, Gauteng, SOUTH AFRICA, South Africa ~72: HASSEN, Rafeek~ 33:ZA ~31:2023/05965 ~32:06/06/2023

. - APPLIED ON 2024/06/14 -

2024/04655 ~ Complete ~54:METHOD AND APPARATUS FOR ANAEROBIC DIGESTION OF LIQUID WASTE STREAMS ~71:DVO LICENSING, INC., 820 WEST MAIN STREET, CHILTON, WI 53014, USA, United States of America ~72: DVORAK, Stephen~ 33:US ~31:63/280,888 ~32:18/11/2021

2024/04635 ~ Provisional ~54:MANAGEMENT SYSTEM AND METHOD ~71:BARNARD, Jacques, Graham Road 252, Tierpoort, South Africa ~72: BARNARD, Jacques~

2024/04637 ~ Complete ~54:A SOIL SAMPLER ~71:Yan an University, 580 Shengdi Road, Yan'an City, Shaanxi Province, People's Republic of China ~72: Chao Yan;Li Jiamin;Liang Li e;Wang Xiaohan;Zhang Jie;Zhu Yonghua~ 33:CN ~31:2024105877704 ~32:13/05/2024

2024/04643 ~ Complete ~54:A WASTE RECYCLING DEVICE FOR CONSTRUCTION PROJECTS ~71:Nantong Institute of Technology, No. 211 Yongxing Road, Chongchuan District, Nantong City, Jiangsu Province, 226001, People's Republic of China ~72: Hu Xiaowen;Peng Shengnan;Xu Jiaxin~

2024/04636 ~ Provisional ~54:FLEXIBLE VENTILATION SEAL AND METHOD OF MANUFACTURING SAME ~71:FB MINING AND LIFTING EQUIPMENT (PTY) LTD., Rustenburg Warehouse Park 54 Beyers Naude Drive, South Africa ~72: STOKES, Paul~

2024/04671 ~ Complete ~54:METHOD FOR THE TREATMENT OF PROGRESSIVE CHRONIC INTERSTITIAL LUNG DISEASE ~71:UCB BIOPHARMA SRL, Allée de la Recherche, 60, B-1070, Brussels, Belgium ~72: IAN TROLLOPE JAMES;PATRICIA J SIME;THOMAS HENRY THATCHER;TIMOTHY SCOTT JOHNSON~ 33:US ~31:63/264,276 ~32:18/11/2021

2024/04677 ~ Complete ~54:INHIBITORS OF MET KINASE ~71:KINNATE BIOPHARMA INC., 12830 El Camino Real, Suite 150, United States of America ~72: COX, Jason M.;KANIA, Robert;KANOUNI, Toufike;OUYANG, Xiaohu S.;TYHONAS, John S.~ 33:US ~31:63/290,291 ~32:16/12/2021;33:US ~31:63/301,267 ~32:20/01/2022;33:US ~31:63/380,049 ~32:18/10/2022;33:US ~31:63/386,647 ~32:08/12/2022

2024/04634 ~ Provisional ~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~

2024/04657 ~ Complete ~54:PERSONAL CARE COMPOSITIONS ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BOYD, Thomas;LESNIAK, Ewelina;MOY, Melissa;NAMKOONG, Jin;WU, Qiang~ 33:US ~31:63/293,258 ~32:23/12/2021;33:US ~31:63/340,382 ~32:10/05/2022

2024/04661 ~ Complete ~54:METHOD AND APPARATUS FOR EXPANDING TUBE BLANKS ~71:Hoffmann Neopac AG, Eisenbahnstrasse 71, THUN 3602, SWITZERLAND, Switzerland ~72: EBERHARD, Kristijan;WAGNER, Michael~ 33:CH ~31:000397/2023 ~32:18/04/2023

2024/04664 ~ Complete ~54:METHOD FOR SEQUESTERING METHIONINE CONTAINED IN A LIQUID AND MATERIAL SUITABLE FOR IMPLEMENTING SUCH A METHOD ~71:Centre National de la Recherche Scientifique, 3 rue Michel Ange, PARIS 75016, FRANCE, France;Institut Polytechnique de Bordeaux, 1, avenue du Docteur Albert Schweitzer, TALENCE CEDEX 33400, FRANCE, France;Universite de Bordeaux, 35, Place Pey Berland, BORDEAUX 33000, FRANCE, France ~72: BASSANI, Dario;FINDLAY, James;FURET, Amaury~ 33:FR ~31:2113725 ~32:16/12/2021

2024/04666 ~ Complete ~54:AN AEROSOL PROVISION SYSTEM WITH A NON-CONSUMABLE ARTICLE FOR CHANGING A DEVICE SETTING ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: DAUGHERTY, Sean A.;NOVAK, III, Charles Jacob~ 33:US ~31:17/644,517 ~32:15/12/2021

2024/04669 ~ Complete ~54:15-PGDH INHIBITOR AND USE THEREOF ~71:WUHAN HUMANWELL INNOVATIVE DRUG RESEARCH AND DEVELOPMENT CENTER LIMITED COMPANY, Room 705-2, Building C7, No. 666 Gaoxin Road, Wuhan East Lake High-tech Development Zone Wuhan, Hubei, 430075, People's Republic of China ~72: DABING YE;DAN AN;HONGQIANG WANG;JUN YANG;LI'E LI;MENG WANG;XIN ZHAO;XUEJUN ZHANG;XUEQIANG LI;ZHENXING GAO~ 33:CN ~31:202111372073.X ~32:18/11/2021;33:CN ~31:202210837015.8 ~32:15/07/2022;33:CN ~31:202211408212.4 ~32:10/11/2022

2024/04673 ~ Complete ~54:METHOD FOR PROCESSING AT LEAST A PRE-CONTRAST IMAGE AND A CONTRAST IMAGE RESPECTIVELY DEPICTING A BODY PART PRIOR TO AND AFTER AN INJECTION OF A FIRST DOSE OF CONTRAST AGENT ~71:GUERBET, 15, rue des Vanesses, 93420, Villepinte, France;INSTITUT GUSTAVE ROUSSY, 39, rue Camille Desmoulins, 94800, Villejuif, France ~72: ALEXANDRE BONE;MARC-MICHEL ROHÉ;NATHALIE LASSAU;PHILIPPE ROBERT;SAMY AMMARI~ 33:EP ~31:21306909.9 ~32:22/12/2021

2024/04640 ~ Complete ~54:MIXED BEAN NUTRITIONAL NOODLES AND PREPARATION METHOD THEREOF ~71:Shanxi Institute for Functional Food, Shanxi Agricultural University, No. 79, Longcheng Street, Xiaodian District, Taiyuan City, Shanxi Province, 030031, People's Republic of China ~72: GAO, Fen;LI, Min;LIANG, Xia;LU, Xin;MENG, Tingting;QIN, Yifan;SHI, Lei~

2024/04645 ~ Complete ~54:TRAM EMBEDDED TRACK PAVEMENT STRUCTURE CLEANING VEHICLE ~71:CHINA RAILWAY 12TH BUREAU GROUP CO.,LTD., No.130 Xikuang Street, Wanbailin District, Taiyuan City, Shanxi Province, 030024, People's Republic of China;Central South University, No.932 Lushan South Road, Yuelu District, Changsha City, Hunan Province, 410083, People's Republic of China;Dongnan Coastal Railway Fujian Co., Ltd., No.73 Qinyuan Road, Jin 'an District, Fuzhou City, Fujian Province, 350013, People's Republic of China;Guangzhou City Polytechnic, No.248 Guangyuan Middle Road, Baiyun District, Guangzhou City, Guangdong Province, 510419, People's Republic of China;Guangzhou Metro Design & Research Institute Co.,Ltd., No.204 Huanshi West Road, Yuexiu District, Guangzhou City, Guangdong Province, 510010, People's Republic of China ~72: CAI Fuhai;CHEN Guoshun;DUAN Tingfa;HAN Marui;HUANG Hui;LI Peicheng;LI Ping;LIU Junhua;TANG Wenpeng;TU Qinming;WANG Xiongbiao;WU Da;WU Shuang;YIN Huatuo;ZENG Zhiping;ZHAO Chen;ZHU Pengwei~

2024/04648 ~ Complete ~54:AZETIDINE AND PYRROLIDINE PARP1 INHIBITORS AND USES THEREOF ~71:XINTHERA, INC., C/O GILEAD SCIENCES, INC., 333 LAKESIDE DRIVE, FOSTER CITY, United States of America ~72: DONG, QING;HOFFMAN, ROBERT L.;KALDOR, STEPHEN W.;TRZOSS, LYNNIE;VA, PORINO JINJO~ 33:US ~31:63/251,469 ~32:01/10/2021;33:US ~31:63/339,597 ~32:09/05/2022;33:US ~31:63/402,835 ~32:31/08/2022

2024/04652 ~ Complete ~54:METHOD FOR ANALYSING MERCURY ADSORPTION ABILITY OF OXYGENATED FUNCTIONALS BROMINATED ACTIVATED CARBON ~71:AOLA SUPONG, DEPARTMENT OF CHEMISTRY, NAGALAND UNIVERSITY, ZUNHEBOTO, LUMAMI, 798627, NAGALAND, India;DIPAK SINHA, DEPARTMENT OF CHEMISTRY, NAGALAND UNIVERSITY, ZUNHEBOTO, LUMAMI, 798627, NAGALAND, India;Nagaland University, NAGALAND UNIVERSITY, ZUNHEBOTO, LUMAMI, 798627, NAGALAND, India;RITUPARNA KARMAKER, DEPARTMENT OF CHEMISTRY, NAGALAND UNIVERSITY, ZUNHEBOTO, LUMAMI, 798627, NAGALAND, India;UPASANA BORA SINHA, DEPARTMENT OF CHEMISTRY, NAGALAND UNIVERSITY, ZUNHEBOTO, LUMAMI, 798627, NAGALAND, India ~72: AOLA SUPONG;DIPAK SINHA;RITUPARNA KARMAKER;UPASANA BORA SINHA~

2024/04656 ~ Complete ~54:DEPLOYMENT TOOL AND METHOD ~71:IMDEX TECHNOLOGIES PTY LTD, 216 Balcatta Road, Western Australia, Australia ~72: BEACH, Andrew Phillip;HOLLIDAY, Matt~ 33:AU ~31:2021904077 ~32:15/12/2021

2024/04650 ~ Complete ~54:CLASSIFICATION PLATE FOR LIBRARY MANAGEMENT ~71:Xinyu University, No. 2666, Sunshine Avenue, High tech Zone, Xinyu City, Jiangxi Province, 338025, People's Republic of China ~72: Yan Yixin~

2024/04670 ~ Complete ~54:DOSAGE REGIMEN FOR FEXUPRAZAN INJECTION COMPOSITION ~71:DAEWOONG PHARMACEUTICAL CO., LTD., 35-14, Jeyakgongdan 4-gil, Hyangnam-eup, Hwaseong-si, Gyeonggi-do, 18623, Republic of Korea ~72: AREUM LEE;KIHUN HAN;KWON JO LIM;SONG BAEK~ 33:KR ~31:10-2021-0179757 ~32:15/12/2021

2024/04639 ~ Complete ~54:METHOD FOR PROCESSING INSTANT MULTIGRAIN RICE ~71:Shanxi Institute for Functional Food, Shanxi Agricultural University, No. 79, Longcheng Street, Xiaodian District, Taiyuan City, Shanxi Province, 030031, People's Republic of China ~72: GAO, Fen;LI, Min;LIANG, Xia;LIU, Chao;MENG, Tingting;QIN, Yifan;SHI, Lei;ZHOU, Bailing~

2024/04646 ~ Complete ~54:A MULTI-SOURCE POI DATA CLEANING METHOD OF FUSING LOCATION CONSTRAINTS AND SEMANTIC CONSTRAINTS ~71:Nanjing University, No.163 Xianlin Road, Qixia District, Nanjing City, Jiangsu Province, 210023, People's Republic of China ~72: Changqing XU;Chen ZHOU;Dong CHEN;Lei MA;Nan XIA;Runpeng XU;Zhenjie CHEN;Zhiwei ZENG~

2024/04685 ~ Complete ~54:SYSTEMS AND METHODS FOR PROCESSING REAL-TIME VIDEO FROM A MEDICAL IMAGE DEVICE AND DETECTING OBJECTS IN THE VIDEO ~71:COSMO ARTIFICIAL INTELLIGENCE - AI LIMITED, Riverside II, Sir John Rogerson's Quay, Dublin,, Ireland ~72: EVANGELISTI, Giulio;NAVARI, Flavio;NGO DINH, Nhan~ 33:US ~31:16/008,015 ~32:13/06/2018;33:EP ~31:18180572.2 ~32:28/06/2018

2024/04638 ~ Complete ~54:INSECT PEST PREVENTION DEVICE FOR FORESTRY ~71:GANSU PROVINCE ACADEMY OF QILIAN WATER RESOURCE CONSERVATION FORESTS RESEARCH INSTITUTE, 109 JUYAN ROAD, People's Republic of China;LANZHOU INSTITUTE OF HUSBANDRY AND PHARMACEUTICAL SCIENCES OF CAAS, 335 JIANGOUYAN ROAD, People's Republic of China;MECHANICAL FOREST FARM OF SHANDAN COUNTY, GANSU PROVINCE, NO.14, DONGJIU LANE, CHANGCHENG ROAD, People's Republic of China;WETLAND PROTECTION STATION OF SHANDAN COUNTY, GANSU PROVINCE,

CHANGQINGYUAN, NANHU PARK, People's Republic of China ~72: CHEN, Chao;CHEN, Jinlong;XIE, Jianfeng;YAN, Chunming~

2024/04644 ~ Complete ~54:DATA ENCRYPTION ALGORITHM BASED ON CHAOTIC SYSTEM ~71:Jiaxing Vocational & Technical College, No. 547, Tongxiang Avenue, Nanhu District, Jiaxing City, Zhejiang Province, 314036, People's Republic of China ~72: Chunfang Gao;Haiping Jiang;Qiang Li;Shuangxi Chen;Wenjun Gu;Xia Sun;Yi Zhou;Yuhao Wu;Zhicheng Gong~

2024/04668 ~ Complete ~54:METHOD FOR PREPARING BIOCHAR BY HYDROTHERMAL CARBONIZATION OF SLUDGE AND STRAW ~71:Harbin Institute of Technology, 92 Xidazhi Street, Nangang District, Harbin City, Heilongjiang Province, 150001, People's Republic of China ~72: Liangliang WEI;Likui FENG;Shufei HE;Weixin ZHAO;Xinwei CHEN;Yaqun LI;Zhelu GAO~

2024/04672 ~ Complete ~54:ENERGY STORAGE AND DELIVERY SYSTEM AND METHOD ~71:ENERGY VAULT, INC., 4360 Park Terrace Dr., Suite 100, Westlake Village, California, 91361, United States of America ~72: ANDREA PEDRETTI~ 33:US ~31:63/265,348 ~32:13/12/2021

2024/04676 ~ Complete ~54:LUMINESCENT DIAMOND AND METHOD OF MAKING THE SAME ~71:SCHLUMBERGER TECHNOLOGY B.V., Parkstraat 83, Netherlands ~72: BAO, Yahua;BELNAP, J. Daniel~ 33:US ~31:63/287,341 ~32:08/12/2021;33:US ~31:63/374,035 ~32:31/08/2022

2024/04642 ~ Complete ~54:INTELLIGENT NETWORKED STEERING TESTING DEVICE FOR AUTOMOBILES ~71:CHONGQING COLLEGE OF ELECTRONIC ENGINEERING, No. 76 Daxue City East Road, Shapingba District, Chongqing, 401331, People's Republic of China ~72: FAN Mengyang~

2024/04649 ~ Complete ~54:CORN STRAW NANOCELLULOSE-BASED AEROGEL FRESH-KEEPING PAD AND PREPARATION METHOD THEREOF ~71:Jilin Agricultural University, No. 2888 Xincheng Street, Nanguan District, Changchun City, Jilin Province, 130118, People's Republic of China ~72: Dawei WANG;Tingting LIU;Yanrong ZHANG~

2024/04662 ~ Complete ~54:BAFFLE FOR A MEMBRANE DEVICE ~71:Evove Ltd, Hewlett Swanson Centurion House, 129 Deansgate, MANCHESTER M3 3WR, GREATER MANCHESTER, UNITED KINGDOM, United Kingdom ~72: ASHWORTH, Claire;BRETHERTON-LIU, Kangsheng;JOSHI, Omkar;PHILLIPS, Tristan;PUGH, Thomas~ 33:GB ~31:2118427.0 ~32:17/12/2021

2024/04665 ~ Complete ~54:ALCOHOL-FREE ANTIMICROBIAL HAND SANITIZER ~71:COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, Meiring Naudé Road, Brummeria, South Africa ~72: KALOMBO, Michel Lonji;NKUNA, Tshepo Patric;SETSHEDI, Katlego Zebedius~ 33:ZA ~31:2021/09136 ~32:17/11/2021

2024/04641 ~ Complete ~54:INSTANT MIXING POWDER OF COARSE CEREALS AND MIXED BEANS AND PREPARATION METHOD THEREOF ~71:Shanxi Institute for Functional Food, Shanxi Agricultural University, No. 79, Longcheng Street, Xiaodian District, Taiyuan City, Shanxi Province, 030031, People's Republic of China ~72: LI, Min;LIANG, Xia;LIU, Chao;LU, Xin;MENG, Tingting;QIN, Yifan;SHI, Lei;TIAN, Ge~

2024/04647 ~ Complete ~54:URBAN DEVELOPMENT BOUNDARY DELIMITATION METHOD BASED ON SUPERPIXEL SEGMENTATION ~71:Nanjing University, No.163 Xianlin Road, Qixia District, Nanjing City, Jiangsu Province, 210023, People's Republic of China ~72: Feixue LI;Lanfeng GE;Manchun LI;Mengyuan MEI;Miao WANG;Qiuhao HUANG;Zhenjie CHEN;Zhenying CHEN~

2024/04651 ~ Complete ~54:CARRIER FOR MANAGING BOOKS IN LIBRARY ~71:Xinyu University, No. 2666, Sunshine Avenue, High tech Zone, Xinyu City, Jiangxi Province, 338025, People's Republic of China ~72: Gong Xiaohua~

2024/04658 ~ Complete ~54:CLEANING COMPOSITIONS COMPRISING SODIUM LAURETH SULFATE AND LESS THAN 1 PPM 1,4-DIOXANE ~71:Colgate-Palmolive Company, 300 Park Avenue, NEW YORK 10022, NY, USA, United States of America ~72: BUCIO, Jose;CARDENAS ALPIZAR, Erick;MALDONADO ORTEGA, Jorge Antonio;RIVERA CRUZ, Luis Javier~ 33:US ~31:63/293,490 ~32:23/12/2021

2024/04660 ~ Complete ~54:CUSTOMIZABLE DOSAGE FORMS CONTAINING SIMETHICONE ~71:Johnson & Johnson Consumer Inc., 199 Grandview Road, SKILLMAN 08558, NJ, USA, United States of America ~72: HOPSON, Peyton;HOWARD, Matthew A.~ 33:US ~31:63/264,122 ~32:16/11/2021

2024/04663 ~ Complete ~54:CARBONIC ANHYDRASE IX LIGANDS ~71:3B Pharmaceuticals GmbH, Magnusstrasse 11, BERLIN 12489 , GERMANY, Germany ~72: BREDENBECK, Anne;HAASE, Christian;HÖHNE, Aileen;OSTERKAMP, Frank;PASCHKE, Matthias;REINEKE, Ulrich;SCHNEIDER, Eberhard;SMERLING, Christiane;UNGEWISS, Jan;WILKENING, Ina;ZBORALSKI, Dirk~ 33:IB ~31:2021/086592 ~32:17/12/2021;33:IB ~31:2022/054857 ~32:25/02/2022;33:IB ~31:2022/057170 ~32:18/03/2022;33:IB ~31:2022/057840 ~32:24/03/2022;33:IB ~31:2022/067424 ~32:24/06/2022;33:IB ~31:2022/079606 ~32:24/10/2022;33:IB ~31:2022/081674 ~32:11/11/2022

2024/04667 ~ Complete ~54:METHOD FOR ENHANCING EFFICIENT METHANOGENESIS OF SLUDGE ANAEROBIC DIGESTION ~71:Harbin Institute of Technology, 92 Xidazhi Street, Nangang District, Harbin City, Heilongjiang Province, 150001, People's Republic of China ~72: Hao MA;Liangliang WEI;Likui FENG;Shufei HE;Tianyi HU;Weixin ZHAO;Xinwei CHEN~

2024/04674 ~ Complete ~54:DEPTH MEASUREMENT WITHIN A BOREHOLE ~71:IMDEX TECHNOLOGIES PTY LTD, 216 Balcatta Road, Western Australia, Australia ~72: BLAINE, Fred;HAY, Wayne;KOPLAN, Chris;WHITE, Matthew~ 33:AU ~31:2021904223 ~32:23/12/2021

2024/04675 ~ Complete ~54:DEVICE FOR THE MANUFACTURE OF AN UNCONSOLIDATED TEXTILE ELONGATE MEMBER ~71:OLLOW, 7 avenue de Guitayne, France ~72: AZRAN, Aymeric;LAINE, Bertrand~ 33:FR ~31:FR2112160 ~32:17/11/2021

2024/04684 ~ Complete ~54:SYSTEMS AND METHODS FOR PROCESSING REAL-TIME VIDEO FROM A MEDICAL IMAGE DEVICE AND DETECTING OBJECTS IN THE VIDEO ~71:COSMO ARTIFICIAL INTELLIGENCE - AI LIMITED, Riverside II, Sir John Rogerson's Quay, Dublin,, Ireland ~72: EVANGELISTI, Giulio;NAVARI, Flavio;NGO DINH, Nhan~ 33:US ~31:16/008,015 ~32:13/06/2018;33:EP ~31:18180572.2 ~32:28/06/2018

2024/04653 ~ Complete ~54:COMPOSITION AND METHOD FOR FABRICATION OF SURFACE PLASMON RESONANCE FOR IMMUNOGLOBULIN G (IGG) DETECTION ~71:Dr Srikant Sharma, Principal, Ashadeep Degree College, Nagal, Saharanpur, Uttar Pradesh, 247551, India;Dr Vinita Dheeran, Associate Professor, Department of Botany, M.M.H. College, Ghaziabad, Uttar Pradesh, 201009, India;Dr. Deva Nand Sharma, Lab. Technician Grade"A", Chemical Engineering, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonipat, Haryana, 131001, India;Dr. Kuljinder Kaur, Lab Incharge, National Institute of Food Technology Entrepreneurship and Management, Kundli, Sonipat, Haryana, 131028, India;Dr. Neeraj Pahuja, Department of Microbial Biotechnology, South Campus, Near Dental College, Sector -25, Panjab University, Chandigarh, 160014, India;Dr. Rahul Boadh, Assistant Professor, Department of Mathematics, Shyam Lal College, University of Delhi, G. T. Road, New Delhi, 110032, India;Dr. Renu Devi, Associate Professor, Department Of Geography, DJ College, Baraut, Baghpat (UP), India;Dr. Subodh Kumar, Associate Professor, Department of Mathematics,

Shyam Lal College, University of Delhi, G. T. Road, New Delhi, 110032, India;Dr. Surinder Singh, Associate Professor, Dr. S S Bhatnagar University Institute of Engineering and Technology, Panjab University, Chandigarh, 160014, India;Dr. Umesh Kumar, Food Analyst, Department Food safety and Drug Administration (U.P.), India;Gaurav, Assistant Professor, Mechanical Engineering PKG Group of Institutions, Madlauda, Panipat, Haryana, 132103, India;Gurudatt Rao Ambedkar, Assistant Professor, Department of Mathematics, HANSRAJ COLLEGE University of Delhi, New Delhi, 110007, India ~72: Dr Srikant Sharma;Dr Vinita Dheeran;Dr. Deva Nand Sharma;Dr. Kuljinder Kaur;Dr. Neeraj Pahuja;Dr. Rahul Boadh;Dr. Renu Devi;Dr. Subodh Kumar;Dr. Surinder Singh;Dr. Umesh Kumar;Gaurav;Gurudatt Rao Ambedkar~

2024/04654 ~ Complete ~54:A BIN ~71:KAMOGELO MARGARET RAPHADU, 689 Canary Lane, East Bank, South Africa ~72: RAPHADU, Kamogelo Margaret~ 33:ZA ~31:2023/03662 ~32:17/03/2023

2024/04659 ~ Complete ~54:METHODS FOR PRODUCING OVERT SECURITY FEATURES EXHIBITING ONE OR MORE INDICIA ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: BERSIER, Mélissa;PITTET, Hervé;VEYA, Patrick~ 33:EP ~31:21209104.5 ~32:18/11/2021

. - APPLIED ON 2024/06/18 -

2024/04717 ~ Complete ~54:NO-S-S-AURB CONJUGATE AND PREPARATION METHOD AND APPLICATION THEREOF ~71:ZHEJIANG CANCER HOSPITAL, No.1 Banshandong Road, Gongshu District, Hangzhou, Zhejiang, 310022, People's Republic of China;ZHEJIANG UNIVERSITY OF TECHNOLOGY, No.18 Chaowang Road, Gongshu District, Hangzhou, Zhejiang, 310014, People's Republic of China ~72: DING, Haiying;FANG, Luo;SONG, Yu;WANG, Jiaqi;XIN, Wenxiu;ZHAN, Zhajun;ZHU, Junfeng~

2024/04682 ~ Provisional ~54:SMART AUTONOMOUS PORTABLE TRAFFIC LIGHT SYSTEM ~71:UNIVERSITY OF SOUTH AFRICA, 1 PRELLER STREET MUCKLENEUK RIDGE, South Africa ~72: FEUKEU, Etienne Alain~

2024/04697 ~ Complete ~54:WINDING EQUIPMENT FOR RECYCLING MULCH FILM ~71:Agriculture Resource and Environment Research Institute, Tibet Academy of Agriculture and Animal Science, Jinzhu West Road, Lhasa City, Tibet Autonomous Region, 850032, People's Republic of China ~72: ZHANG Huaguo~

2024/04704 ~ Complete ~54:BLOCKCHAIN-BASED METHOD FOR ENCRYPTING AND IDENTIFYING IDENTITY CODE OF INTERNET OF THINGS DEVICE ~71:WEIFANG UNIVERSITY, No. 5147, Dongfeng East Street, High-tech Development Zone, Weifang, People's Republic of China ~72: Huihui ZHANG;Lijun HAN;Renlin WANG~

2024/04732 ~ Complete ~54:NOVEL ACID ADDITION SALT AND CRYSTALLINE FORM OF (2R,3S)-2-(3-(4,5-DICHLORO-1H-BENZO[D]IMIDAZOL-1-YL)PROPYL)PIPERIDIN-3-OL ~71:DAEWOONG PHARMACEUTICAL CO., LTD., 35-14, Jeyakgongdan 4-gil, Hyangnam-eup, Hwaseong-si, Gyeonggi-do, 18623, Republic of Korea ~72: JI SUNG YOON;JOON-HWAN LEE;MIN JAE CHO~ 33:KR ~31:10-2021-0182188 ~32:17/12/2021

2024/04744 ~ Complete ~54:CONTROL SYSTEM, ROCK DRILLING RIG, AND METHOD FOR CONTROLLING COUPLING MEASURES ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: KOIVUMÄKI, Perttu;TOPPINEN, Visa;UOTILA, Jarkko;VISKARI, Eero~ 33:EP ~31:21217318.1 ~32:23/12/2021

2024/04700 ~ Complete ~54:COTTON S-LOCUS PROTEIN KINASE GENES AND THEIR APPLICATIONS IN REGULATING RESPONSES TO HIGH TEMPERATURE STRESS ~71:Economic Crops Research Institute, Xinjiang Academy of Agricultural Sciences (Xinjiang Uygur Autonomous Region Cotton Research Institute, Xinjiang Uygur Autonomous Region Sugar Beet Improvement Center), No. 403, Nanchang Road, Sayibak District,

Urumqi City, Xinjiang Uygur Autonomous Region, 830091, People's Republic of China;Huazhong Agricultural University, No. 1 Shizishan Street, Hongshan District, Wuhan City, Hubei Province, 430070, People's Republic of China;Xinjiang Jinfengyuan Seed Industry Co., Ltd., No. 003, Tuanjie Street, West of Jing'er Road and South of Weisi Road, National Agricultural Science and Technology Park, Wensu County, Aksu Prefecture, Xinjiang, 843100, People's Republic of China ~72: KONG, Jie;MA, Yizan;MIN, Ling;ZHANG, Xianlong;ZHANG, Yinbao;ZHU, Longfu~ 33:CN ~31:202410447189.2 ~32:13/04/2024

2024/04720 ~ Complete ~54:CRYSTALLINE FORMS OF (R)-1-(1-ACRYLOYLPIPERIDIN-3-YL)-4-AMINO-3-(4-PHENOXYPHENYL)-1H-IMIDAZO[4,5-C]PYRIDIN-2(3H)-ONE AND SALTS THEREOF ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, MA, United States of America ~72: DIAZ, Krista;OCHSENBEIN, Philippe E.;OWENS, Tim~ 33:US ~31:63/292,124 ~32:21/12/2021;33:US ~31:63/432,169 ~32:13/12/2022

2024/04724 ~ Complete ~54:METHODS OF USING RARΓ AGONISTS FOR CANCER TREATMENT ~71:IO THERAPEUTICS, INC., 9450 PINECROFT DRIVE UNIT 9497, SPRING, TX 77387, USA, United States of America ~72: SANDERS, Martin, E.;VULIGONDA, Vidyasagar~ 33:US ~31:63/282,547 ~32:23/11/2021

2024/04729 ~ Complete ~54:METHOD FOR PRODUCING 2-OCTYL (METH)ACRYLATE ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: AKIN, Aykan;DE RUITER, Cornelis, Hendricus;DECKERT, Petra;EICHHORN, Sabine;FLECKENSTEIN, Christoph;FLEISCHHAKER, Friederike;KORPJUHN, Frank;LANG, Ortmund;MISSKE, Andrea~ 33:EP ~31:21210376.6 ~32:25/11/2021

2024/04739 ~ Complete ~54:IMMUNOGENICITY OF A CPG-ADJUVANTED HERPES ZOSTER VACCINE ~71:DYNAVAX TECHNOLOGIES CORPORATION, 2100 Powell Street, Suite 720, Emeryville, California, 94608, United States of America ~72: ROBERT S JANSSEN~ 33:US ~31:63/293,510 ~32:23/12/2021

2024/04747 ~ Complete ~54:PROCESS OF THE PREPARATION OF HYDROXYLAMINE DERIVATIVES ~71:Intervet International B.V., Wim de Körverstraat 35, BOXMEER 5831 AN, THE NETHERLANDS, Netherlands ~72: CHASSAING, Christophe Pierre Alain;DAHMEN, Thomas;SCHEIPERS, Claudia~ 33:EP ~31:21217708.3 ~32:24/12/2021

2024/04702 ~ Complete ~54:RPA-LFD PRIMER PROBE GROUP AND ITS KIT FOR IDENTIFYING ANISAKIS SIMPLEX/ANISAKIS PEGREFFII AND APPLICATIONS ~71:CHINA JILIANG UNIVERSITY, 258 Xueyuan Street, Qiantang District, Hangzhou City, People's Republic of China;THE FIRST PEOPLE'S HOSPITAL OF XIANYANG, No. 10 Biyuan Road, Qindu District, Xianyang City, People's Republic of China ~72: GUAN, Feng;SONG, Xiao;ZHANG, Yueqi;ZHAO, Shanshan~ 33:CN ~31:202311413011.8 ~32:23/09/2023

2024/04709 ~ Complete ~54:DEVICE AND METHOD FOR HIGH-CONTENT CERAMIC PARTICLE-REINFORCED EUTECTIC HIGH-ENTROPY ALLOY COMPOSITE COATING ASSISTED BY LASER CLADDING ~71:Anhui Zhongke Chungu Laser Industry Technology Research Institute Co., Ltd, Zhongke Chungu Laser Industrial Park, Fanchang Economic Development Zone, Wuhu City, Anhui Province, 241000, People's Republic of China;Tongling University, No. 1335, Fourth Cuihu Road, Tongling, Anhui Province, 244061, People's Republic of China ~72: GAO, Xuesong;LI, Rong;LI, Zansong;SUN, Jian;WANG, Dongsheng;YANG, Youwen;ZHANG, Chao~ 33:CN ~31:2024105506615 ~32:06/05/2024

2024/04723 ~ Complete ~54:DEVICE AND METHOD FOR FORMING A PRODUCT THAT IMITATES PROPERTIES OF MEAT, POULTRY, FISH, SEAFOOD, OR PRODUCTS DERIVED THEREFROM ~71:BÜHLER AG, GUPFENSTRASSE 5, 9240 UZWIL, SWITZERLAND, Switzerland ~72: GEORGET, Erika, Sylvie;MITCHELL, William, Robert;ROBERTS, Ian, David~ 33:EP ~31:21217503.8 ~32:23/12/2021;33:EP ~31:22156034.5 ~32:10/02/2022

2024/04728 ~ Complete ~54:DEVICE AND METHOD FOR FORMING A PRODUCT THAT IMITATES PROPERTIES OF MEAT, POULTRY, FISH, SEAFOOD, DAIRY PRODUCTS, OR PRODUCTS DERIVED THEREFROM ~71:BÜHLER AG, GUPFENSTRASSE 5, 9240 UZWIL, SWITZERLAND, Switzerland ~72: GEORGET, Erika, Sylvie;MITCHELL, William, Robert;ROBERTS, Ian, David~ 33:EP ~31:21217503.8 ~32:23/12/2021;33:EP ~31:22156034.5 ~32:10/02/2022;33:EP ~31:22161130.4 ~32:09/03/2022

2024/04735 ~ Complete ~54:BATTERY-POWERED GATEWAY FOR ENABLING LOCATION-BASED ACCESS CONTROL BY AN ACCESS CONTROL SERVER ~71:ASSA ABLOY GLOBAL SOLUTIONS AB, P.O. Box 47112, 100 74, Stockholm, Sweden ~72: MARKO OVASKA;MIIKA HEINONEN;VIRVE PIIROINEN~ 33:SE ~31:2151445-0 ~32:26/11/2021;33:SE ~31:2151446-8 ~32:26/11/2021

2024/04738 ~ Complete ~54:CHIMERIC ANTIGEN RECEPTOR (CAR) T CELLS FOR TREATING AUTOIMMUNE DISEASE AND ASSOCIATED METHODS ~71:SANA BIOTECHNOLOGY, INC., 188 E. Blaine St, Suite 400, Seattle, Washington 98102, United States of America ~72: CAROL ANNE OGDEN;CONSTANTINE STEPHEN DJEDJOS;PAUL BRUNETTA;SONJA SCHREPFER;STEVE HARR;SUNIL AGARWAL;TERRY JAMES FRY~ 33:US ~31:63/293,637 ~32:23/12/2021;33:US ~31:63/320,672 ~32:16/03/2022

2024/04742 ~ Complete ~54:PRODUCTION OF 177LU FROM YB TARGETS ~71:The Curators of the University of Missouri, 316 University Hall, COLUMBIA 65211, MI, USA, United States of America ~72: GARNOV, Alexander;LYDON, John D.;ROBERTSON, John David~ 33:US ~31:63/292,286 ~32:21/12/2021

2024/04745 ~ Complete ~54:METHOD OF MAKING A DIAMOND COMPOSITE ~71:Sandvik Machining Solutions AB, Mossvägen 10, SANDVIKEN 811 81, SWEDEN, Sweden ~72: DE FLON, John;DÖSSLING, Carl;MÅRTENSSON, Malin~ 33:EP ~31:21216413.1 ~32:21/12/2021

2024/04749 ~ Complete ~54:AEROSOL GENERATING MATERIAL COMPRISING ONE OR MORE FOAM FORMING AGENTS ~71:British American Tobacco (Investments) Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: MONSALUD, Luis;MUA, John-Paul~ 33:US ~31:63/291,611 ~32:20/12/2021

2024/04688 ~ Complete ~54:ALLOY STEEL LINER PLATE MATERIAL AND PREPARATION METHOD THEREOF ~71:Chuzhou University, No.1 (Huifeng Campus), Huifeng West Road, Chuzhou City, Anhui Province, 239004, People's Republic of China ~72: CUI, Shuqing~

2024/04692 ~ Complete ~54:BASIC NURSING INTELLIGENT TEACHING SYSTEM AND METHOD ~71:Guizhou Nursing Vocational College, Jinfeng Campus, No. 169 Wufeng Road, Yunyan District, Guiyang City, Guizhou Province, 551304, People's Republic of China ~72: DAI, Ran;JIANG, Zhixia;MA, Jing;ZHENG, Xiangyun~ 33:CN ~31:202311304216.2 ~32:09/10/2023

2024/04699 ~ Complete ~54:A COATING LIQUID PREPARATION PROCESS FOR A DOUBLE-LAYER ANTIREFLECTIVE FILM ON PHOTOVOLTAIC PANELS ~71:Jiangsu University of Technology, 1801 Zhongwu Street, Zhonglou District, Changzhou City, Jiangsu Province, People's Republic of China ~72: Guan Keqiang;Hu Changzhou;Shi Hongtao;Xiang Meng;Yang Jingjing;Yang Zhou;Zhou Shilong~ 33:CN ~31:2024105969284 ~32:14/05/2024

2024/04708 ~ Complete ~54:METHOD FOR EFFECTIVELY PREVENTING AND CONTROLLING AMBROSIA TRIFIDA BY COMBINING ABOVEGROUND AND UNDERGROUND ~71:SHIHEZI UNIVERSITY, No. 221, North 4th Road, Xiangyang Subdistrict, Shihezi City, Xinjiang Uygur Autonomous Region, 832003, People's Republic of China ~72: DONG Shengtianzi;LIU Tong;QIN Tiantian;WANG Hanyue;ZHAO Wenxuan~

2024/04711 ~ Complete ~54:A MECHATRONICS PRACTICAL TRAINING PLATFORM AND AN OPERATION METHOD ~71:Kunming Metallurgy College, 388 Xuefu Road, Wuhua District, Kunming City, Yunnan Province, 650000, People's Republic of China ~72: Zhongbo Hao~

2024/04679 ~ Provisional ~54:SYSTEM AND METHOD FOR ENHANCED UTILIZATION OF MOBILE AIRTIME BALANCES ~71:MOLOMO, Mtutuzeli Rammonaseswa, 118 Boundary Road Golfview Walkerview, South Africa ~72: MOLOMO, Mtutuzeli Rammonaseswa~

2024/04716 ~ Complete ~54:MASK HAVING LV STRUCTURE AND DEVICE THEREOF ~71:YANG, Mingyu, Room 919, No.66 Xingang East Road, Al and Digital Economic District, Guangzhou, People's Republic of China ~72: YANG, Mingyu~ 33:CN ~31:202111448692.2 ~32:18/11/2021;33:CN ~31:PCT/CN2021/141008 ~32:23/12/2021;33:CN ~31:202210034107.2 ~32:13/01/2022;33:CN ~31:202221523693.9 ~32:18/06/2022;33:CN ~31:202211269160.7 ~32:17/10/2022

2024/04719 ~ Complete ~54:METHOD AND MEANS FOR PROCESSING BEVERAGES ~71:STONE TREE INTERNATIONAL LIMITED, 71-75 Shelton Street, Convent Garden, United Kingdom ~72: Paul Bertus HAYES;Timothy John BOND~ 33:ZA ~31:2021/10363 ~32:14/12/2021;33:ZA ~31:2022/08186 ~32:22/07/2022

2024/04721 ~ Complete ~54:SYSTEM AND METHOD FOR ELECTROCHEMICAL OCEAN ALKALINITY ENHANCEMENT ~71:THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK, 35 State Street, Albany, United States of America ~72: EISAMAN, Matthew~ 33:US ~31:63/292,627 ~32:22/12/2021

2024/04725 ~ Complete ~54:CATALYST FOR HYDROGEN PEROXIDE ACTIVATION ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: COPERET, Christophe;DE BAERDEMAEKER, Trees, Maria;LAETSCH, Lukas;MORMUL, Jaroslaw, Michael;PARVULESCU, Andrei-Nicolae;TELES, Joaquim, Henrique;TRUKHAN, Natalia~ 33:EP ~31:21211010.0 ~32:29/11/2021

2024/04727 ~ Complete ~54:N-TERMINAL AND/OR C-TERMINAL CLEAVED SOLUBLE PH20 POLYPEPTIDE AND USE THEREOF ~71:ALTEOGEN INC., 62, YUSEONG-DAERO, 1628BEON-GIL, YUSEONG-GU, DAEJEON 34054, REP OF KOREA, Republic of Korea ~72: KIM, Kyuwan;PARK, Soon Jae;SONG, Hyung-Nam;YUN, Sang Hoon~ 33:KR ~31:10-2022-0076030 ~32:22/06/2022

2024/04731 ~ Complete ~54:PROCESS FOR THE PRODUCTION OF C6-C12-ALKYL (METH)ACRYLIC ESTERS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: HECHLER, Claus;HOFMANN, Horst;LANG, Ortmund~ 33:EP ~31:21210408.7 ~32:25/11/2021

2024/04733 ~ Complete ~54:METHOD FOR PREPARATION OF (2R, 3S)-2-(BENZO[D]IMIDAZOLYLPROPYL)PIPERIDIN-3-OL DERIVATIVES ~71:DAEWOONG PHARMACEUTICAL CO., LTD., 35-14, Jeyakgongdan 4-gil, Hyangnam-eup, Hwaseong-si, Gyeonggi-do, 18623, Republic of Korea ~72: JOON SEOK PARK;JOON-HWAN LEE;MIN JAE CHO~ 33:KR ~31:10-2021-0182187 ~32:17/12/2021

2024/04743 ~ Complete ~54:SITE-SPECIFIC ANTIBODY CONJUGATION AND ITS USE ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: HOFER, Kerstin;MARTIN, Rainer E.;MOHAMED, Mohamed Yosry Hassan;OELSCHLAEGEL, Tobias;SCHUMACHER, Felix Franz;SELA, Tatjana~ 33:EP ~31:21217585.5 ~32:23/12/2021

2024/04750 ~ Complete ~54:APPARATUS FOR HEATING AEROSOL-GENERATING MATERIAL ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CARNEY, Ieuan;JAUREGUI, Juan Esteban Paz;ROSSER, Nicholas;TAYLOR, Benjamin~ 33:GB ~31:2118554.1 ~32:20/12/2021

2024/04681 ~ Provisional ~54:ELECTRIC DRIVE FOR CONTRA ROTATING BLADES ~71:Brian Patrick Roach, 53a Kelvin road, Bramley, Johannesburg, Gauteng, South Africa ~72: Brian Patrick Roach~

2024/04696 ~ Complete ~54:A TWIN SCENE MOBILE SCANNING DEVICE ~71:Zhengzhou University of Aeronautics, No. 2 Daxue Middle Road, Erqi District, Zhengzhou City, Henan Province, 450015, People's Republic of China ~72: Yan Qiong;Zhang Haijun~

2024/04687 ~ Complete ~54:COPPER ALLOY MATERIAL AND PREPARATION METHOD THEREOF ~71:Chuzhou University, No.1 (Huifeng Campus), Huifeng West Road, Chuzhou City, Anhui Province, 239004, People's Republic of China ~72: DING, Jian~

2024/04693 ~ Complete ~54:DIGITAL INTELLIGENT TEACHING EVALUATION SYSTEM ~71:CHONGQING COLLEGE OF ELECTRONIC ENGINEERING, No. 76 Daxue City East Road, Shapingba District, Chongqing, 401331, People's Republic of China ~72: TAN Zhouqin~

2024/04695 ~ Complete ~54:METHOD FOR SEPARATING AND CULTURING DERMAL PAPILLA CELL OF REX RABBIT SKIN ~71:Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, 23788 Gongye Bei Lu, Licheng District, Jinan City, Shandong Province, 250100, People's Republic of China;Shandong Agricultural University, No. 61 Daizong Street, Taishan District, Tai'an City, Shandong Province, 271000, People's Republic of China ~72: BAI Liya;CHEN Jiali;GAO Shuxia;LI Fuchang;LI Shu;LIU Gongyan;LIU Lei;SUN Haitao~

2024/04698 ~ Complete ~54:GROUP OF VECTORS EXPRESSING PROTEINS IN YEAST CELLS AND ORGANELLE LOCALIZATION SYSTEM AND APPLICATIONS THEREOF ~71:Economic Crops Research Institute, Xinjiang Academy of Agricultural Sciences (Xinjiang Uygur Autonomous Region Cotton Research Institute, Xinjiang Uygur Autonomous Region Sugar Beet Improvement Center), No. 403, Nanchang Road, Sayibak District, Urumqi City, Xinjiang Uygur Autonomous Region, 830091, People's Republic of China;Huazhong Agricultural University, No. 1 Shizishan Street, Hongshan District, Wuhan City, Hubei Province, 430070, People's Republic of China;Xinjiang Jinfengyuan Seed Industry Co., Ltd., No. 003, Tuanjie Street, West of Jing'er Road and South of Weisi Road, National Agricultural Science and Technology Park, Wensu County, Aksu Prefecture, Xinjiang, 843100, People's Republic of China ~72: KONG, Jie;MA, Yizan;MIN, Ling;ZHANG, Xianlong;ZHANG, Yinbao;ZHANG, Zhuoyan;ZHU, Longfu~ 33:CN ~31:202410501081.7 ~32:24/04/2024

2024/04701 ~ Complete ~54:HEAT STORE WITH HEAT STORAGE CASSETTES ~71:Lumenion GmbH, Ella-Barowsky-Straße 11, Berlin, 10829, Germany ~72: Falla Peña, Santiago;Jolly, Param Preet Singh;Kordt, Peter;Kuschminder, Eric~ 33:EP ~31:23181926.9 ~32:27/06/2023

2024/04703 ~ Complete ~54:RAIL TEMPERATURE EXPANSION JOINT AND LAYING AND MOUNTING METHOD ~71:CHINA RAILWAY FIRST GROUP CO., LTD, No. 1, Yanta North Road, Beilin District, Xi 'an, People's Republic of China;CHINA RAILWAY FIRST GROUP XINYUN ENGINEERING CO., LTD, No.111, Renmin East Road, Weicheng District, Xianyang City, People's Republic of China ~72: AN, Huan;FENG, Weihe;GAO, Zhifeng;GUO, Zifei;KANG, Kang;LI, Leilei;LI, Yongjin;MA, Zheng;PENG, Fangjun;YIN, Tailong;YU, Ziyong;ZHANG, Fei;ZHAO, Boning~ 33:CN ~31:202311125362.9 ~32:01/09/2023

2024/04706 ~ Complete ~54:A COLLEGE STUDENT ENGLISH TRANSLATION LEARNING AID DEVICE ~71:Yan an University, 580 Shengdi Road, Yan an City, Shaanxi Province, People's Republic of China ~72: Chao Yan;Liang Li e;Wang Xiaohan;Zhang Jie~ 33:CN ~31:2024105879663 ~32:13/05/2024

2024/04712 ~ Complete ~54:COMPOSITION AND METHOD TO ENHANCE COGNITIVE ABILITY WHILST ELEVATING ENERGY LEVELS ~71:SUPRAPHARM CC, 44 Wessels Road, Rivonia, South Africa ~72: TERPIZIS, COSTAS LAMBROS;TERPIZIS, DIMITRI JOHN~ 33:ZA ~31:2023/06582 ~32:27/06/2023

2024/04714 ~ Complete ~54:ZIRCONIA CERAMIC MICROBEAD AND PREPARATION METHOD THEREOF ~71:Jingdezhen Ceramic University, Xianghu Town, Fuliang County, Jingdezhen City, Jiangxi Province, 333400, People's Republic of China ~72: Shi Jijun;Sun Guoliang~ 33:CN ~31:2023107260808 ~32:19/06/2023

2024/04718 ~ Complete ~54:HIGH-VOLTAGE WINDING, AND MANUFACTURING METHOD AND APPLICATION THEREOF ~71:ZHEJIANG JIANGSHAN TRANSFORMER CO., LTD., 84 Hushan Road, Jiangshan City, Quzhou, Zhejiang, 324100, People's Republic of China ~72: JIANG, Zhenjun;WEI, Youxi~ 33:CN ~31:202311475629.7 ~32:07/11/2023

2024/04722 ~ Complete ~54:FITUSIRAN FOR USE IN IMPROVING PATIENT-REPORTED OUTCOME IN HEMOPHILIA PATIENTS ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, MA, United States of America ~72: ANDERSSON, Shauna;BARTELT-HOFER, Jose;DASMAHAPATRA, Pronabesh~ 33:US ~31:63/293,070 ~32:22/12/2021;33:US ~31:63/305,550 ~32:01/02/2022;33:US ~31:63/335,535 ~32:27/04/2022;33:US ~31:63/359,717 ~32:08/07/2022;33:US ~31:63/382,223 ~32:03/11/2022;33:US ~31:63/386,489 ~32:07/12/2022

2024/04726 ~ Complete ~54:DISTRIBUTED REWARD DECOMPOSITION FOR REINFORCEMENT LEARNING ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83 STOCKHOLM, SWEDEN, Sweden ~72: IYER, Subramanian;PANDYA, Ravi~

2024/04730 ~ Complete ~54:AGRICULTURAL SYSTEM FOR PROTECTING AN ANIMAL SPECIES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: BRAUN, Joerg;DENYS, Jeff;GEBLER, Sebastian Thomas;WELTJE, Lennart~ 33:EP ~31:21210037.4 ~32:23/11/2021

2024/04736 ~ Complete ~54:CURRENT LOOP TRANSMITTER CIRCUITRY FOR MONITORING A DRY CONTACT SWITCH STATE ~71:CORNELL PUMP COMPANY LLC, 16261 Southeast 130th Avenue, Clackamas, Oregon, 97015, United States of America ~72: AARON WEISS;ADAM LINDEMAN;COLIN O'CALLAGHAN;JONATHAN CEDARLEAF~ 33:US ~31:63/296,969 ~32:06/01/2022

2024/04741 ~ Complete ~54:METHOD OF TREATING GEOGRAPHIC ATROPHY WITH A GENE THERAPY VECTOR EXPRESSING SOLUBLE CD59 ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: ROGERS, Adam~ 33:US ~31:63/281,190 ~32:19/11/2021

2024/04746 ~ Complete ~54:AN INJECTABLE PHARMACEUTICAL COMPOSITION FOR THE TREATMENT OF RESPIRATORY DISEASES IN ANIMALS ~71:Intervet International B.V., Wim de Körverstraat 35, BOXMEER 5831 AN, THE NETHERLANDS, Netherlands ~72: MEYER, Thorsten;ULLRICH, Joachim;WANG, Chen-Chao;WARRASS, Ralf~ 33:EP ~31:21217704.2 ~32:24/12/2021

2024/04690 ~ Complete ~54:METHOD FOR PREPARING STEEL ALLOY MATERIAL AND COPPER ALLOY MATERIAL ~71:Chuzhou University, No.1 (Huifeng Campus), Huifeng West Road, Chuzhou City, Anhui Province, 239004, People's Republic of China ~72: LI, Lei~

2024/04694 ~ Complete ~54:BIOANALYTICAL METHOD AND SYSTEM FOR QUANTIFYING MOLNUPIRAVIR IN BIOLOGICAL SAMPLE ~71:Anoop Bodapati, Department of Pharmaceutical Sciences Vignan's Foundation for Science, Technology & Research (Deemed to be University) Guntur -Tenali Rd, Vadlamudi, Andhra Pradesh, India;Bhaskar vallamkonda, Department of pharmaceutical science, School of Applied Sciences and Humanities, VIGNAN'S Foundation for Science, Technology & Research, Guntur, Andhra Pradesh, India;Dr. K. Bhavyasri, Associate Professor and Head, Department of Pharmaceutical Analysis, RBVRR women's college of Pharmacy, barkatpura, Hyderabad, Telangana, India;Mylsamy Palanisamy, Associate Director -ARD Boehringer Ingelheim Pharmaceuticals Inc., Powell, Ohio, United States of America;Phanikumar Reddy Satti, Department of Chemistry, Acharya Nagarjuna University, Guntur, Andhra Pradesh, India;Sanjeeva Reddy Chinnakadoori, Senior Research

Scientist, Analytical Research and Development, Amneal Pharmaceuticals, Piscataway, New Jersey, United States of America;Selvaraj Elumalai, Senior Director in AmbioPharm Inc., Beach Island, South Carolina, United States of America;Sudha Divya Madhuri Kallam, Department of Pharmaceutical Sciences Vignan's Foundation for Science, Technology & Research (Deemed to be University) Guntur -Tenali Rd, Vadlamudi, Andhra Pradesh, India;Venkata Lakshamana Sagar Dantinapalli, Analytical Scientist, Veranova, 25 Patton road, Devens, Massachusetts, United States of America ~72: Anoop Bodapati;Bhaskar vallamkonda;Dr. K. Bhavyasri;Mylsamy Palanisamy;Phanikumar Reddy Satti;Sanjeeva Reddy Chinnakadoori;Selvaraj Elumalai;Sudha Divya Madhuri Kallam;Venkata Lakshamana Sagar Dantinapalli~ 33:IN ~31:202441034771 ~32:02/05/2024

2024/04705 ~ Complete ~54:COMPOUND PASSIVATOR FOR HEAVY METAL CONTAMINATED SOIL IN TRADITIONAL CHINESE MEDICINAL MATERIAL LAND, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:WUHAN ACADEMY OF AGRICULTURAL SCIENCES, INSTITUTE FOR ENVIRONMENT AND SECURITY, NO. 1, People's Republic of China ~72: CHEN, Gang;CHENG, Weishun;DU, Lei;HONG, Juan;JIANG, Li;LUO, Xi;YE, Lixia;ZHANG, Lihong~ 33:CN ~31:202410729535.6 ~32:06/06/2024

2024/04707 ~ Complete ~54:NOVEL AGRICULTURAL LAND COVER ~71:State Key Laboratory of Nutrient Use and Management, Shandong Institute of Pomology, No.66 Longtan Road, Tai'an City, Shandong Province, People's Republic of China ~72: DU Dongliang;HU Bin;LI Fangdong;LI Huifeng;NIE Peixian;YAN Zhenhua~

2024/04734 ~ Complete ~54:STAPLE-CONTAINING POLYPEPTIDES AND APPLICATION THEREOF ~71:SOTER BIOPHARMA PTE. LTD., 1 Coleman Street, The Adelphi #08-01, Singapore, 179803, Singapore ~72: HAIYING HE;SHUHUI CHEN;ZHIGAN JIANG;ZHIXIANG PAN~ 33:CN ~31:202111400591.8 ~32:19/11/2021;33:CN ~31:202210648263.8 ~32:08/06/2022

2024/04737 ~ Complete ~54:CONFIGURABLE BASE PLATE SYSTEM FOR INDUSTRIAL PUMPS ~71:CORNELL PUMP COMPANY LLC, 16261 Southeast 130th Avenue, Clackamas, Oregon, 97015, United States of America ~72: ANDREW ENTERLINE;BRANDON YODER;JORDAN R WHITE~ 33:US ~31:63/295,969 ~32:03/01/2022

2024/04740 ~ Complete ~54:OPTICAL WINDOW COVERED WITH A DOPED DIAMOND ELECTRODE WITH ACTIVE FOULING REMOVAL FUNCTIONALITY ~71:THALES, 4 Rue de la Verrerie, France ~72: CHOLET, Julie;GARABEDIAN, Patrick;GUILLEMET, Raphaël;JUSSEY, Doriane~ 33:FR ~31:2114085 ~32:21/12/2021

2024/04680 ~ Provisional ~54:LOYALTY PROGRAM AND REWARDS CURRENCY FOR MEMBERS OR NON-MEMBERS OF A GYM OR HEALTH CLUB ~71:Ryno Gouws, 8 Kremetart Ave, Glen Marais, 1619, South Africa, South Africa ~72: Ryno Gouws~

2024/04713 ~ Complete ~54:YIELDING MINE SUPPORT BAG ~71:MAN AND OH INVESTMENTS (PTY) LTD., 237 Luipaard Street, Boltonia, Krugersdorp, 1739, South Africa ~72: DEANE CONOR O'HAUGHEY~ 33:ZA ~31:2023/11261 ~32:07/12/2023

2024/04715 ~ Complete ~54:SUSTAINABLE FINANCIAL SYSTEM USING IOT FOR DETECTION OF FAKE LINKS AND SUPPORT SECURE TRANSACTION ~71:Dr. Anthonisamy Ananth, RC South Street, Kottapalayam (PO), Thuraiyur (TK),Trichy (DT), Tamil Nadu, India;Dr. Gengatharan Ramesh, 693, Savurveli Street, Andimadam Post, Ariyalur (Dt),Tamil Nadu, India;Dr. J.M. Velmurugan, Head & Assistant Professor, Department of Commerce, The TamilNadu Dr Ambedkar Law University,Chennai 600113, India;Dr. Murugesan Selvam, Senior Professor and Head (Retired), Department of Commerce and Financial Studies, Bharathidasan University, Tiruchirappalli, India;Dr. Santanu Dasgupta, Associate Professor & Principal, Pailan College of Management & Technology, Kolkata, India;Mr. Asik Rahaman Jamader, Assistant Professor, Pailan College of Management & Technology, Kolkata, India ~72: Dr. Anthonisamy Ananth;Dr. Gengatharan Ramesh;Dr. J.M. Velmurugan;Dr. Murugesan Selvam;Dr. Santanu Dasgupta;Mr. Asik Rahaman Jamader~

2024/04686 ~ Complete ~54:A SYSTEM TO ENABLE MANAGEMENT OF AN EMPLYMENT RELATIONSHIP BETWEEN AN EMPOYER AND AN EMPLOYEE ~71:LABOURDRIVE (PTY) LTD, Shop 7, 30 Marine Drive, South Africa ~72: HARALAMBOUS, Christodoulos;MATTHEWS, Dane;WILSON, James~

2024/04689 ~ Complete ~54:ENVIRONMENTALLY FRIENDLY FREE-CUTTING NICKEL-COPPER ALLOY MATERIAL AND PREPARATION METHOD THEREOF ~71:Chuzhou University, No.1 (Huifeng Campus), Huifeng West Road, Chuzhou City, Anhui Province, 239004, People's Republic of China ~72: YANG, Tingting~

2024/04710 ~ Complete ~54:A MULTI-FORM INDUCTION HEATER COOPERATIVE MODULATION TUNDISH ~71:Kunming University of Science and Technology, No.68, Wenchang Lane, Yi'eryi Street, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Bing Yi;Daiwei Liu;Guifang Zhang;Jincai Li;Li Zhang;Peng Yan;Qi Jiang;Weidong Zhao;Xiaoliang Wang;Xinchen Pang;Yuandong Yan;Zhixiang Xiao~

2024/04683 ~ Provisional ~54:LOCKABLE ENCLOSURES ~71:KLEINHANS, Morne, 55 Roscommon Road, Parkview, South Africa ~72: KLEINHANS, Frederik Johannes;KLEINHANS, Morne~

2024/04691 ~ Complete ~54:HIGH-MANGANESE FREE-CUTTING BRASS ALLOY MATERIAL AND PREPARATION METHOD THEREOF ~71:Chuzhou University, No.1 (Huifeng Campus), Huifeng West Road, Chuzhou City, Anhui Province, 239004, People's Republic of China ~72: ZHENG, Guilin~

2024/04748 ~ Complete ~54:AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM AND A METHOD OF MANUFACTURING AN ARTICLE FOR USE IN AN AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ASHRAF, Fahim;DIMMICK, Barry~ 33:GB ~31:2118567.3 ~32:20/12/2021

2024/04856 ~ Provisional ~54:BOTTLE RECYCLING STACKING SYSTEM METHOD PET ~71:Gerhardus Jacobus Combrink, 6 Katdoring Crescent Protea Village Brackenfell, South Africa ~72: Gerhardus Jacobus Combrink~

. - APPLIED ON 2024/06/19 -

2024/04857 ~ Provisional ~54:HOSPITECH ~71:kgoadi tema, 4746 moshate, South Africa ~72: KGOADI MALAKIA TEMA~

2024/04751 ~ Provisional ~54:A TRACKING SYSTEM AND METHOD OF TRACKING A PLURALITY OF OBJECTS ~71:ONEWORLD INVESTMENTS (PTY) LTD, 34 Glen Grey Drive, Waterfall, South Africa ~72: CLEATOR, Christopher John~

2024/04752 ~ Provisional ~54:PRICE PACKAGE ESTIMATE GUIDE ~71:Ronelle Jonas, 8 Harmony Close, South Africa ~72: Ronelle Jonas~

2024/04780 ~ Complete ~54:FUNGICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: BOYLES, Claire;WESLEY, Robin~ 33:EP ~31:21216791.0 ~32:22/12/2021

2024/04785 ~ Complete ~54:A CONSUMABLE FOR USE WITH AN AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: PRESS, Robert~ 33:GB ~31:2118584.8 ~32:20/12/2021

2024/04755 ~ Complete ~54:METHOD FOR PROMOTING SOIL SEED GERMINATION AND RAPIDLY CONSUMING AMBROSIA ARTEMISIIFOLIA UNDERGROUND SEED BANK ~71:SHIHEZI UNIVERSITY, No.

221, North 4th Road, Xiangyang Subdistrict, Shihezi City, Xinjiang Uygur Autonomous Region, 832099, People's Republic of China ~72: DONG Shengtianzi;LIU Tong;QIN Tiantian;WANG Hanyue;ZHAO Wenxuan~

2024/04758 ~ Complete ~54:NOVEL DYE ADSORBENT AND PREPARATION METHOD THEREOF ~71:Chun'an County Jieshou Township People's Government Comprehensive Service Center, Jieshou Township, Chun'an County, Hangzhou City, Zhejiang Province, 311701, People's Republic of China;Hangzhou Xingbao Mushroom Specialized Cooperative, Tongziwu Village, Jieshou Township, Chun'an County, Hangzhou City, Zhejiang Province, 311701, People's Republic of China;Zhejiang Academy of Agricultural Sciences, No. 298, Desheng Middle Road, Hangzhou City, Zhejiang Province, 310021, People's Republic of China;Zhejiang Yuanjian Biopharmaceutical Co.,Ltd, Longquan Economic Development Zone, Lishui City, Zhejiang Province, 323700, People's Republic of China ~72: CHEN Jinrong;LAN Liuxin;LV Guoying;WANG Fugen;WANG Mengyu;ZHANG Zuofa;ZHAO Ruimeng~

2024/04757 ~ Complete ~54:AUTOMATIC SEALING DEVICE FOR INSULATING GLASS EDGES ~71:Zhejiang Green Glass Industry Co., Ltd., Juyu Town Industrial Park, Wencheng County, Wenzhou City, Zhejiang Province, People's Republic of China ~72: Dongbao Lei;Fen Ren;Weijun Jiang;Yanhong Wu;Zhongbiao Zhong~

2024/04769 ~ Complete ~54:COUPLER DEVICE FOR A BEVERAGE DISPENSING SYSTEM ~71:HEINEKEN SUPPLY CHAIN B.V., Tweede Weteringplantsoen 21, Netherlands ~72: DESSING, Jacobus Petrus Maria;KEMP, Dennis Christiaan;PAAUWE, Arie Maarten~ 33:EP ~31:21217322.3 ~32:23/12/2021

2024/04772 ~ Complete ~54:COUPLER DEVICE ~71:HEINEKEN SUPPLY CHAIN B.V., Tweede Weteringplantsoen 21, Netherlands ~72: PAAUWE, Arie Maarten;WIGMAN, Peter Henri Samuel~ 33:EP ~31:21217594.7 ~32:23/12/2021

2024/04775 ~ Complete ~54:MODULAR INDUSTRIAL UNIT FOR PHARMACEUTICAL PRODUCTIONS ~71:BioNTech SE, An der Goldgrube 12, MAINZ 55131, GERMANY, Germany ~72: BRUNEN, Manfred Joseph;BÜTTNER, Mario;ESTAPÉ IZQUIERDO, David;HENNIG, Oliver;HOFFMANN, Kristin;KRÖNER, Rainer;LANG, Martin;MUIK, Alexander;PIETRON-KATTMANN, Karsten;POETTING, Sierk;PORAN, Asaf;REINSCH, Christian;SAHIN, Ugur;STEGMANN, Sven;WILDEMANN, Horst~ 33:US ~31:63/293,480 ~32:23/12/2021;33:US ~31:63/301,834 ~32:21/01/2022;33:US ~31:63/419,690 ~32:26/10/2022;33:US ~31:63/420,508 ~32:28/10/2022

2024/04779 ~ Complete ~54:A METHOD OF MANUFACTURING A CONSUMABLE COMPRISING AEROSOL GENERATING MATERIAL ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: HEPWORTH, Richard;JONES, Dorcas;PRESS, Robert;RICHARDSON, John;SOFFE, Joanna~ 33:GB ~31:2118579.8 ~32:20/12/2021

2024/04786 ~ Complete ~54:A CONSUMABLE FOR USE WITH AN AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: DE TINA, Thomas;RICHARDSON, John;SOFFE, Joanna~ 33:GB ~31:2118581.4 ~32:20/12/2021

2024/04791 ~ Complete ~54:ANCHOR ARRANGEMENT ~71:MOHLALEFI (PTY) LTD., 18 Tongani Street, Bryanston Ext 45, 2191 Sandton, South Africa ~72: MARTIN NARE MASITISE~ 33:ZA ~31:2021/05984 ~32:20/08/2021

2024/04797 ~ Complete ~54:APPARATUS AND METHOD FOR DRYING AND STYLING HAIR ~71:JEMELLA LIMITED, 82 Dean Street, London, W1D 3SP, United Kingdom ~72: ADAM STONE;ALEX HARRISON;ANTHONY SARGEANT;CHRIS HUFF;ED SURRIDGE;LIAM WRIGHT;NICK ASHBY;RICHARD GOLD;ROB MILNER;ROBERT WEATHERLY;TIM HONE~ 33:GB ~31:2118800.8 ~32:22/12/2021

2024/04801 ~ Complete ~54:ANTI-CD84 ANTIBODIES AND CHIMERIC ANTIGEN RECEPTORS ~71:FUNDACIÓ DE RECERCA CLINIC BARCELONA-INSTITUT D'INVESTIGACIONS BIOMÉDIQUES AUGUST PI I SUNYER, Rosselló, 149-153 08036 Barcelona, Spain;GYALA THERAPEUTICS SOCIEDAD LIMITADA, Paseo de Gracia, 54, 02 D 08007 Barcelona, Spain;HOSPITAL CLÍNIC DE BARCELONA, Villarroel, 170 08036 Barcelona, Spain ~72: CLAUDIO JOAO RIBEIRO DOS SANTOS;LORENA PÉREZ AMILL;MANUEL JUAN OTERO;NELA KLEIN GONZÁLEZ;RAMON VILELLA PUIG~ 33:EP ~31:22382003.6 ~32:05/01/2022;33:EP ~31:22205399.3 ~32:03/11/2022

2024/04802 ~ Complete ~54:METHOD AND APPARATUS FOR SPECTROTEMPORALLY IMPROVED SPECTRAL GAP FILLING IN AUDIO CODING USING A FILTERING ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: FOTOPOULOU, Eleni;FÜG, Richard;HELMRICH, Christian;MARKOVIC, Goran;MULTRUS, Markus;REUTELHUBER, Franz~ 33:EP ~31:21217661.4 ~32:23/12/2021;33:EP ~31:PCT/EP2022/052151 ~32:28/01/2022

2024/04804 ~ Complete ~54:SELF-POWERED PRESSURE MEASUREMENT SYSTEM BASED ON SURFACE ACOUSTIC WAVE SENSOR AND OPERATING METHOD THEREFOR ~71:NANTONG UNIVERSITY, No.9, Seyuan Road, Nantong City, People's Republic of China ~72: JIANG, Hua;JIANG, Jianwei;YANG, Yongjie;ZHANG, Guoan~ 33:CN ~31:202210029789.8 ~32:12/01/2022

2024/04805 ~ Provisional ~54:RANK2RANK FASHION AND ART ~71:Monwabisi Dyantyi, 11 Cula Street, Khayelitsha, Khayelitsha, South Africa;Sakhele Ernest Mpande, 43969 Nkcukaza Street, Makhaza, South Africa ~72: Sakhale Ernest Mpande~

2024/04858 ~ Provisional ~54:THE CLASSIC ~71:SIPELELE MKUMATELA, 2 MUSHROOM ROAD, MIDRAND, South Africa ~72: SIPELELE MKUMATELA~

2024/04756 ~ Complete ~54:A MEASURING DEVICE FOR BUILDING PIPELINES ~71:Nantong Institute of Technology, No. 211 Yongxing Road, Chongchuan District, Nantong City, Jiangsu Province, People's Republic of China;Nantong Wanbo surveying and mapping consulting co., LTD, No. 908, Building 3, Zhongjiang International Plaza, No. 6 Tongjia Road, Nantong City, Jiangsu Province, People's Republic of China ~72: Gu Jian;Lv Xiao;Zhang Chengyue;Zhu Gesheng~

2024/04759 ~ Complete ~54:A BACTERIUM STRAIN OF (GYMNODINIALIMONAS) SP. 57CJ19 AND ITS APPLICATIONS ~71:Shandong Academy of Agricultural Sciences, No. 23788, Gongye North Road, Licheng District, Jinan City, Shandong Province, 250100, People's Republic of China ~72: Deyuan Ma;Donghui Li;Fei Bian;Gao Chen;Jinhui Yu;Ning Zheng;Pengfei Ren;Yan Zhang~ 33:CN ~31:202410703852.0 ~32:03/06/2024

2024/04764 ~ Complete ~54:ANTI-BCMA HEAVY CHAIN-ONLY ANTIBODIES ~71:TENEOBIO, INC., One Amgen Center Drive, Thousand Oaks, California, 91320, United States of America ~72: KATHERINE E HARRIS;KEVIN DANG;NATHAN TRINKLEIN;SHELLEY FORCE ALDRED;WIM VAN SCHOOTEN~ 33:US ~31:62/437,588 ~32:21/12/2016

2024/04766 ~ Complete ~54:SPATIAL THREE-DIMENSIONAL SUSPENSION CORRIDOR AND METHOD FOR OPTIMIZING SAME ~71:2ND CONSTRUCTION CO., LTD OF CHINA CONSTRUCTION 5TH ENGINEERING BUREAU, Room 510, 5th Floor, Baohe Economic Development Zone Management Committee, No. 582, Huayuan Avenue, Baohe District, Hefei, People's Republic of China ~72: DENG, Hongliang;LI, Chuang;LI, Sheng;PENG, Wanjun;SHEN, Wenbing;SHI, Xuguang;XIE, Fumei;ZHENG, Zhitao~ 33:CN ~31:2024104365450 ~32:11/04/2024

2024/04773 ~ Complete ~54:FLEET AND TROLLEY SYSTEM FOR ZERO-EMISSION MACHINES ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: LANE, Cameron T.;ORGAN, Daniel J.;WULF, Stefan J.~ 33:US ~31:17/557,788 ~32:21/12/2021

2024/04774 ~ Complete ~54:ROOT VEGETABLE SLICER ~71:LINQUAN HENGDA FOODSTUFF CO., LTD., Qianjin Road, Linquan County Economic Development Zone, Fuyang, People's Republic of China ~72: Wu Junfeng~ 33:CN ~31:202310335471.7 ~32:31/03/2023

2024/04782 ~ Complete ~54:NOVEL AURISTATIN ANALOGS AND IMMUNOCONJUGATES THEREOF ~71:Adcentrx Therapeutics Inc., 5580 Morehouse Drive, Suite 210, SAN DIEGO 92121, CA, USA, United States of America ~72: LEE, Dong Jun;LI, Richard Hui~ 33:US ~31:63/293,583 ~32:23/12/2021

2024/04795 ~ Complete ~54:SOLID DESICCANT RESISTANT TO ALKALINE HYDROXIDES ~71:ARKEMA FRANCE, 420, rue d'Estienne d'Orves, 92700, Colombes, France ~72: CÉCILE LUTZ;ISABELLE GLAUDEIX;SYLVIE SZENDROVICS;UGO RAVON~ 33:FR ~31:FR2114669 ~32:30/12/2021

2024/04796 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING A QUINAZOLINE COMPOUND ~71:ASTELLAS PHARMA INC., 5-1, Nihonbashi-Honcho 2-chome, Chuo-ku, Tokyo, 1038411, Japan ~72: TAKEYUKI NAGASHIMA~ 33:JP ~31:PCT/JP2021/049036 ~32:24/12/2021

2024/04803 ~ Complete ~54:OFFSHORE WIND SCALE MEASUREMENT RADIO FREQUENCY TRANSCEIVER SYSTEM AND OPERATION METHOD THEREOF ~71:NANTONG UNIVERSITY, No.9, Seyuan Road, Nantong, People's Republic of China ~72: JIANG, Hua;JIANG, Jianwei;YANG, Yongjie;ZHANG, Guoan~ 33:CN ~31:202210029790.0 ~32:12/01/2022

2024/04859 ~ Provisional ~54:THE CLASSIC ~71:SIPELELE MKUMATELA, 2 MUSHROOM ROAD, MIDRAND, South Africa ~72: SIPELELE MKUMATELA~

2024/04761 ~ Complete ~54:PRESSURE REDUCER ASSEMBLY ~71:Hans Sasserath GmbH & Co. KG, Mühlenstraße 62, KORSCHENBROICH 41352, GERMANY, Germany ~72: HECKING, Willi~ 33:DE ~31:20 2024 100 548.1 ~32:05/02/2024

2024/04762 ~ Complete ~54:A SYSTEM TO ENABLE MANAGEMENT OF AN EMPLOYMENT RELATIONSHIP BETWEEN AN EMPLOYER AND AN EMPLOYEE ~71:LABOURDRIVE (PTY) LTD, Shop 7, 30 Marine Drive, South Africa ~72: HARALAMBOUS, Christodoulos;MATTHEWS, Dane;WILSON, James~ 33:ZA ~31:2023/06494 ~32:23/06/2023

2024/04767 ~ Complete ~54:SPATIAL SUSPENSION CORRIDOR FOR INDOOR VENUE AND HOISTING AND UNLOADING METHOD THEREFOR ~71:2ND CONSTRUCTION CO., LTD OF CHINA CONSTRUCTION 5TH ENGINEERING BUREAU, Room 510, 5th Floor, Baohe Economic Development Zone Management Committee, No. 582, Huayuan Avenue, Baohe District, Hefei, People's Republic of China;CHINA CONSTRUCTION FIFTH ENGINEERING DIVISION CORP., LTD., No.158 Zhongyi 1st Road, Yuhua District, Changsha, People's Republic of China ~72: CHEN, Honggen;DENG, Hongliang;LI, Chuang;LI, Sheng;SHEN, Wenbing;SHI, Xuguang;XIE, Fumei;ZHENG, Zhitao~ 33:CN ~31:2024104365357 ~32:11/04/2024

2024/04770 ~ Complete ~54:A CEMENTITIOUS MATERIAL BINDER AND METHODS AND SYSTEMS FOR PRODUCING THE SAME WHICH DO NOT RELY ON A SURFACE-ALONE REACTION ~71:YUMMET LLC, 2301 W Holladay St., Tucson, United States of America ~72: COGSWELL, Christopher, F.;MACDONALD, Kevin, A.;ZIMMERMAN, Brittany, L.~ 33:US ~31:63/284,399 ~32:30/11/2021

2024/04771 ~ Complete ~54:AIR PRE-CLEANER SPIN TUBE ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: CALIENDO, Vincent P.~ 33:US ~31:17/558,772 ~32:22/12/2021

2024/04778 ~ Complete ~54:COMPOSITIONS AND METHODS FOR PURIFYING POLYRIBONUCLEOTIDES ~71:Flagship Pioneering Innovations VI, LLC, 55 Cambridge Parkway, 8th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: CIFUENTES-ROJAS, Catherine;DE BOER, Alexandra Sophie;DUDKIN, Vadim;FARB, Joshua Nathan;HOBERT, Elissa Magdalene;PAEK, Ki Young;PLUGIS, Nicholas McCartney~ 33:US ~31:63/292,557 ~32:22/12/2021

2024/04781 ~ Complete ~54:SOLID FORMS OF PYRAZOLO[3,4-D]PYRIMIDINE COMPOUNDS ~71:Pfizer Inc., 235 East 42nd Street, NEW YORK 10017, USA, United States of America ~72: AMEDIO Jr., John C.;PROULX-LAFRANCE, Caroline Yvette;VOLCKOVA, Erika~ 33:US ~31:63/290,136 ~32:16/12/2021

2024/04783 ~ Complete ~54:A METHOD OF MANUFACTURING A PRODUCT COMPRISING AEROSOL GENERATING MATERIAL ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: SOFFE, Joanna~ 33:GB ~31:2118583.0 ~32:20/12/2021

2024/04788 ~ Complete ~54:CORONAVIRUS IMMUNOGEN COMPOSITIONS AND THEIR USES ~71:Flagship Pioneering Innovations VI, LLC, 55 Cambridge Parkway, 8th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: DE BOER, Alexandra Sophie;ECHELARD, Yann Paul Guy Régis;KAHVEJIAN, Avak;LEE, Soohyun;MELFI, Michael Donato;MOSAHEB, Mohammad Mubeen;NELSON, Jennifer A.;SIGOVA, Alla Alexeevna~ 33:US ~31:63/283,146 ~32:24/11/2021

2024/04792 ~ Complete ~54:LINEAR MOTION EXCITER ~71:MOHLALEFI (PTY) LTD., 18 Tongani Street, Bryanston Ext 45, 2191 Sandton, South Africa ~72: MARTIN NARE MASITISE~ 33:ZA ~31:2021/06116 ~32:25/08/2021;33:ZA ~31:2021/10240 ~32:10/12/2021

2024/04793 ~ Complete ~54:THERMAL CONTROL APPARATUS AND METHOD ~71:JEMELLA LIMITED, 82 Dean Street, London, W1D 3SP, United Kingdom ~72: LIAM WRIGHT;LUCA NOGAROTTO;RICHARD GOLD~ 33:GB ~31:2118806.5 ~32:22/12/2021

2024/04799 ~ Complete ~54:OXAZOLIDINONE LIPOSOME COMPOSITIONS ~71:AKAGERA MEDICINES, INC., 5 Essex Street, Boxford, Massachusetts, 01921, United States of America ~72: ALEXANDER KOSHKARYEV;CHARLES O NOBLE;DARYL C DRUMMOND;DMITRI B KIRPOTIN~ 33:US ~31:63/292,899 ~32:22/12/2021

2024/04765 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING NEUROPSYCHIATRIC DISORDERS ~71:HB BIOTECH, INC., 515 West 20th Street, #4E, New York, New York 10011, United States of America ~72: ALON SEIFAN~ 33:US ~31:63/011,932 ~32:17/04/2020;33:US ~31:63/111,156 ~32:09/11/2020

2024/04776 ~ Complete ~54:METHOD OF PRODUCING A FOOD PRODUCT ~71:NE Innovations Oy, c/o MOW, Pieni Roobertinkatu 9, HELSINKI 00130, FINLAND, Finland ~72: VEKKELI, Santtu~ 33:FI ~31:20216206 ~32:25/11/2021;33:FI ~31:20225390 ~32:05/05/2022

2024/04784 ~ Complete ~54:APPARATUS FOR HEATING AEROSOL-GENERATING MATERIAL ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: JAUREGUI, Juan Esteban Paz~ 33:GB ~31:2118544.2 ~32:20/12/2021

2024/04789 ~ Complete ~54:AN OSCILLATION MECHANISM FOR A CHAIR OR AN ARMCHAIR ~71:DONATI S.P.A., Via Paderno, 19, Rodengo Saiano, Italy ~72: DONATI, Armando~ 33:IT ~31:102022000001481 ~32:28/01/2022

2024/04754 ~ Complete ~54:A SNP MOLECULAR MARKER ASSOCIATED WITH DUROC IMF CONTENT ~71:Institute of Subtropical Agriculture, Chinese Academy of Sciences, No. 644, Yuandaer Road, Furong District, Changsha City, Hunan Province, 410125, People's Republic of China ~72: Hu GAO;Kang XU;Xiaoxiao DENG;Yawei FU;Yulong YIN~

2024/04777 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: TAYLOR, Benjamin~ 33:GB ~31:2118514.5 ~32:20/12/2021

2024/04787 ~ Complete ~54:AEROSOL PROVISION SYSTEMS AND ARTICLES FOR USE THEREIN ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: DIMMICK, Barry~ 33:GB ~31:2118541.8 ~32:20/12/2021

2024/04800 ~ Complete ~54:MRNA THERAPEUTIC COMPOSITIONS ~71:SAIL BIOMEDICINES, INC., 140 First Street, Suite 601 Cambridge, Massachusetts 02141, United States of America ~72: EMAD ARAFA;MUNIR MOSAHEB;ROMAN BOGORAD;SIDDHARTH PATEL;STACIE CLARK~ 33:US ~31:63/291,686 ~32:20/12/2021;33:US ~31:63/320,664 ~32:16/03/2022;33:US ~31:63/401,214 ~32:26/08/2022

2024/04760 ~ Complete ~54:SCREENING METHOD FOR ELECTRIC LOAD FEATURES OF LARGE INDUSTRIAL USERS ~71:ANHUI UNIVERSITY OF SCIENCE AND TECHNOLOGY, NO. 168, TAIFENG STREET, People's Republic of China;STATE GRID FUYANG POWER SUPPLY COMPANY, NO. 216, YINGNAN ROAD, People's Republic of China ~72: GONG, Yanyan;HU, Feng;LI, Xia;LIU, Zhitian;NIE, Shiguang;PANG, Qingqing;TANG, Lei;WANG, Kun;WANG, Zhenyun;WU, Youzhong;YAN, Yan;YANG, Mingfang;ZHOU, Mengran;ZHU, Ziwei~ 33:CN ~31:2024105310281 ~32:29/04/2024

2024/04763 ~ Complete ~54:ANTI-BCMA HEAVY CHAIN-ONLY ANTIBODIES ~71:TENEOBIO, INC., One Amgen Center Drive, Thousand Oaks, California, 91320, United States of America ~72: KATHERINE E HARRIS;KEVIN DANG;NATHAN TRINKLEIN;SHELLEY FORCE ALDRED;WIM VAN SCHOOTEN~ 33:US ~31:62/437,588 ~32:21/12/2016

2024/04768 ~ Complete ~54:AN ORAL SMOKELESS PRODUCT COMPRISING AN ACTIVE AGENT AND/OR A FLAVOUR ~71:SWEDISH MATCH NORTH EUROPE AB, 118, Sweden ~72: ELFSTRAND, Andreas;SEILER, Linnea~ 33:SE ~31:21212931.6 ~32:07/12/2021

2024/04790 ~ Complete ~54:ACCIDENT ONLINE DIAGNOSIS METHOD FOR THIRD-GENERATION PASSIVE PRESSURIZED WATER REACTOR NUCLEAR POWER PLANT ~71:CHINA NUCLEAR POWER OPERATION TECHNOLOGY CORPORATION, LTD., No.1021 Minzu Dadao, East Lake-High-Tech Development Zone, People's Republic of China ~72: HOU, Xueyan;HUANG, Xiong;LIU, Wei;MA, Guoyang;WEI, Wei~ 33:CN ~31:202310669291.2 ~32:06/06/2023

2024/04794 ~ Complete ~54:4-PHENYL-TETRAHYDROPYRIDINE DERIVATIVES FOR TREATING HEARING DISEASES ~71:CILCARE DEV, 378 rue du Professeur Blayac, 34080, Montpellier, France ~72: CYRILLE SAGE;CÉLIA BELLINE;GAËLLE NAERT;MARIE-PIERRE PASDELOU;MATHIEU SCHUE;SYLVIE COSNIER-PUCHEU~ 33:EP ~31:21306931.3 ~32:23/12/2021

2024/04798 ~ Complete ~54:OXIDATIVE LEACHING METHODS ~71:BASF SE, Carl-Bosch-Str. 38, 67056, Ludwigshafen am Rhein, Germany ~72: ANNE-MARIE CAROLINE ZIESCHANG;FABIAN SEELER;MARC DUCHARDT;NILS-OLOF JOACHIM BORN;VINCENT SMITH;WOLFGANG ROHDE~ 33:EP ~31:22154535.3 ~32:01/02/2022

2024/04753 ~ Complete ~54:METHOD FOR IDENTIFYING AND PREVENTING WATER DISASTERS IN UNDERGROUND BED SEPARATION ~71:SUZHOU UNIVERSITY, Erpu Village, Zhuxianzhuang Town, Yongqiao District, Suzhou City, Anhui Province, 234111, People's Republic of China ~72: GUO, Xiaoyan;GUO, Yan;HU, Ru;JIANG, Chuang;ZHAO, Mingkun~

. - APPLIED ON 2024/06/20 -

2024/04807 ~ Provisional ~54:FIBER OPTIC POSITIONING SYSTEM ~71:Positionxt (Pty) Ltd., 10 Mont Saint Michel, South Africa ~72: VELDSMAN, Andre~

2024/04826 ~ Complete ~54:VARICELLA-ZOSTER VIRUS IMMUNOGEN COMPOSITIONS AND THEIR USES ~71:Flagship Pioneering Innovations VI, LLC, 55 Cambridge Parkway, 8th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: CARTER, Erik Paul;MELFI, Michael Donato;NELSON, Jennifer A.~ 33:US ~31:63/283,047 ~32:24/11/2021

2024/04853 ~ Complete ~54:METHOD AND APPARATUS FOR SPECTROTEMPORALLY IMPROVED SPECTRAL GAP FILLING IN AUDIO CODING USING DIFFERENT NOISE FILLING METHODS ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: FOTOPOULOU, Eleni;FÜG, Richard;HELMRICH, Christian;MARKOVIC, Goran;MULTRUS, Markus;REUTELHUBER, Franz~ 33:EP ~31:21217660.6 ~32:23/12/2021;33:DE ~31:PCT/EP2022/052150 ~32:28/01/2022

2024/04843 ~ Complete ~54:CRACK-CONTAINING HOT-STAMPED STEEL PART WITH A THIN COATING WITH EXCELLENT SPOT-WELDABILITY AND EXCELLENT PAINTING ADHESION ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Clément PHILIPPOT;David DUSSAUSSOIS;Doriane SERRA;Hubert SALMON LEGAGNEUR~ 33:IB ~31:PCT/IB2023/056829 ~32:30/06/2023

2024/04836 ~ Complete ~54:RING TRAY FOR HONEYCOMB SUBSTRATE FIRING ~71:Cataler Corporation, 7800, Chihama, KAKEGAWA-SHI 4371492, SHIZUOKA, JAPAN, Japan ~72: OKABE, Katsuhiro;SAKURAI, Daiki;SUZUKI, Shintaro~ 33:JP ~31:2021-209869 ~32:23/12/2021

2024/04812 ~ Complete ~54:LOW-TEMPERATURE FIRED LOW HEAT PORTLAND CEMENT AND ITS PREPARATION METHOD ~71:China Building Materials Academy Co., Ltd., No. 1 Guanzhuang Dongli, Chaoyang District, Beijing, 100024, People's Republic of China;China National Building Material Group Co., Ltd., Building 2, Guohai Plaza, No. 17 Fuxing Road, Haidian District, Beijing, 100036, People's Republic of China ~72: Ao LIU;Guanbao TANG;Guang YAO;Jing WANG;Kunyue ZHANG;Min WANG;Mingming SUN;Suihua GUO;Wen HUANG;Xianbin WANG;Xianshu GAO;Xiao ZHI;Xin SHEN;Yang YU;Yun LIU;Zhaijun WEN~ 33:CN ~31:202310775269.6 ~32:28/06/2023

2024/04818 ~ Complete ~54:ONLINE EDUCATION SYSTEM BASED ON VIRTUAL REALITY ~71:Zhejiang Normal University, No. 688, Yingbin Road, Jinhua City, Zhejiang Province, 321004, People's Republic of China ~72: Fang Xiaosheng;Jin Baiyan~

2024/04830 ~ Complete ~54:AEROSOL GENERATING DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: COWAN, Dean;HODGSON, Matthew;TAVERN, Sydney~ 33:GB ~31:2118760.4 ~32:22/12/2021

2024/04817 ~ Complete ~54:METHOD FOR FILLING ROOF-CONTACTED AREA OF GOAF IN UNDERGROUND MINE ~71:Anhui Development Mining Co., Ltd., No. 107, County Road, Economic Development Zone of Huoqiu County, Lu'an City, Anhui Province, 237462, People's Republic of China;East China Jiaotong University, No. 808, Shuanggang East Street, Economic and Technological Development Zone,

Nanchang City, Jiangxi Province, 330013, People's Republic of China;University of Science and Technology Beijing, No. 30, Xueyuan Road, Haidian District, Beijing City, 100083, People's Republic of China;Wuhan University of Science and Technology, No. 947, Heping Avenue, Qingshan District, Wuhan City, Hubei Province, 430081, People's Republic of China ~72: Chen Shunman;Liu Xuliang;Ruan Zhu'en;Shi Lei;Wang Bowen;Xu Lulu;Xu Min;Yao Nan;Ye Yicheng;Yu Zhenjian~

2024/04841 ~ Complete ~54:CRYSTALLINE FORMS OF (S)-5-BENZYL-N-(5-METHYL-4-OXO-2, 3,4,5-TETRAHYDROPYRIDO [3,2-B] [L,4]OXAZEPIN-3-YL)-4H-L,2,4-TRIAZOLE-3-CARBOXAMIDE ~71:DENALI THERAPEUTICS INC., 161 Oyster Point Blvd, South San Francisco, United States of America ~72: SUDHAKAR, Anantha~ 33:US ~31:63/298,816 ~32:12/01/2022;33:US ~31:63/386,113 ~32:05/12/2022

2024/04848 ~ Complete ~54:COMPOSITION COMPRISING DELTA-9-TETRAHYDROCANNABINOL AND TERPENES ~71:VERTANICAL GMBH, Am Haag 14, 82166, Gräfelfing, Germany ~72: BASTIAN BAASCH;CLEMENS FISCHER~ 33:EP ~31:22 154 384.6 ~32:31/01/2022;33:EP ~31:22154377.0 ~32:31/01/2022;33:EP ~31:22154378.8 ~32:31/01/2022;33:EP ~31:22154379.6 ~32:31/01/2022;33:EP ~31:22154380.4 ~32:31/01/2022;33:EP ~31:22154381.2 ~32:31/01/2022;33:EP ~31:22154382.0 ~32:31/01/2022;33:EP ~31:22154383.8 ~32:31/01/2022

2024/04838 ~ Complete ~54:CIRCULAR POLYRIBONUCLEOTIDES ENCODING ANTIFUSOGENIC POLYPEPTIDES ~71:Flagship Pioneering Innovations VI, LLC, 55 Cambridge Parkway, 8th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: GROMADA, Jesper;MIRALLES, Gines Diego~ 33:US ~31:63/293,495 ~32:23/12/2021

2024/04815 ~ Complete ~54:IMPROVED DEVICE AND METHOD FOR DETECTING POPULATION DENSITY OF ENTOMOPATHOGENIC NEMATODES ~71:Shandong Institute of Pomology, No.66 Longtan Road, Tai'an City, Shandong Province, People's Republic of China ~72: DONG Fang;GAO Rui;WANG Zhongtang;WU Haibin;WU Haibo;XIANG Kun;ZHANG Ganyu;ZHANG Yong~

2024/04835 ~ Complete ~54:NOVEL ANTI-TSLP ANTIBODIES ~71:Inmagene Pte. Ltd., 20 Emerald Hill Road, 229302, SINGAPORE, Singapore ~72: FAN, Pengcheng;GUO, Chongtian;LEI, Run;SUN, Qiang;WANG, Jonathan Jian;XU, Zhihao~ 33:IB ~31:2021/141294 ~32:24/12/2021;33:IB ~31:2022/134293 ~32:25/11/2022

2024/04846 ~ Complete ~54:DEVICE AND METHOD FOR LIQUEFYING A GAS ~71:ArianeGroup, Forêt de Vernon, BP 806, VERNON CEDEX 27207, FRANCE, France;Engie, 1 Place Samuel de Champlain, COURBEVOIE 92400, FRANCE, France ~72: CHABERNAUD, Pierre;DURI, Davide;FILALI, Hamza;JALIA, Florian;LINOTTE, Rémi;PENIN, Loïc~ 33:FR ~31:2114197 ~32:21/12/2021

2024/04849 ~ Complete ~54:C-TYPE NATRIURETIC PEPTIDE THERAPY OF BONE-RELATED DISORDERS ~71:BIOMARIN PHARMACEUTICAL INC., 105 Digital Drive, Novato, California, 94949, United States of America ~72: CHRISTOPHER BAUER;DEVANSHI SHANGHAVI;ELENA FISHELEVA;GEORGE JEHA;JONATHAN DAY;SERGIO COVARRUBIAS;YU-SHAN TSENG~ 33:US ~31:63/286,829 ~32:07/12/2021;33:US ~31:63/380,509 ~32:21/10/2022

2024/04806 ~ Provisional ~54:FIRE EXTINGUISHER ~71:KOEKEMOER, Louis Christiaan, 352 Larsens Road, South Africa ~72: KOEKEMOER, Louis Christiaan~

2024/04850 ~ Complete ~54:WATER TREATMENT PITCHER ~71:SODASTREAM INDUSTRIES LTD., 1 Atir Yeda Street, Kfar Saba, 4464301, Israel ~72: ALLAN RING;ALON WAISMAN;AVRAHAM COHEN;VLADISLAV GUR~ 33:US ~31:17/578,454 ~32:19/01/2022

2024/04844 ~ Complete ~54:BINDING DOMAINS AGAINST CANCER-ASSOCIATED MUC1 ~71:MERUS N.V., Uppsalalaan 17, 3e en 4e verdieping, Netherlands ~72: GUPTA, Vijay;KLOOSTER, Rinse;MAYES, Patrick;NASTRI, Horacio G.;VARGHESE, Bindu;WIDJAJA, Ivy;ZHOU, Jing~ 33:NL ~31:2030198 ~32:21/12/2021

2024/04825 ~ Complete ~54:CRACK-CONTAINING HOT-STAMPED COATED STEEL PART WITH EXCELLENT SPOT-WELDABILITY AND EXCELLENT PAINTING ADHESION ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Clément PHILIPPOT;David DUSSAUSSOIS;Doriane SERRA;Hubert SALMON LEGAGNEUR~ 33:IB ~31:PCT/IB2023/056827 ~32:30/06/2023

2024/04809 ~ Complete ~54:AUTISM AUXILIARY DIAGNOSIS SYSTEM BASED ON DEEP DOMAIN ADAPTATION ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CHEN, Hongjun;DONG, Zhaofeng;JING, Weina;LI, Hengbin;LIU, Lele;LIU, Yunchang;SHANG, Chaoyang;SHI, Chunlei;WAN, Fei;ZHANG, Yanyan;ZHANG, Zhimin~

2024/04834 ~ Complete ~54:BONE FIXATION PLATES AND ALIGNMENT GUIDES ~71:Paragon 28, Inc., 14445 Grasslands Drive, ENGLEWOOD 80112, CO, USA, United States of America ~72: COLLETTE, Tristan;DACOSTA, Albert;HUNT, Richard David~ 33:US ~31:63/264,477 ~32:23/11/2021

2024/04813 ~ Complete ~54:LOW HEAT PORTLAND CEMENT WITH HIGH TEMPERATURE RESISTANCE AND PREPARATION METHOD THEREOF ~71:China Building Materials Academy Co., Ltd., No. 1 Guanzhuang Dongli, Chaoyang District, Beijing, 100024, People's Republic of China;China National Building Material Group Co., Ltd., Building 2, Guohai Plaza, No. 17 Fuxing Road, Haidian District, Beijing, 100036, People's Republic of China ~72: Ao LIU;Guanbao TANG;Guang YAO;Jing WANG;Kunyue ZHANG;Min WANG;Mingming SUN;Suihua GUO;Tingting BAO;Wen HUANG;Xianbin WANG;Xianshu GAO;Xiao ZHI;Xin SHEN;Yang YU;Yirui LI;Yun LIU;Zhaijun WEN~ 33:CN ~31:202310779394.4 ~32:29/06/2023

2024/04821 ~ Complete ~54:AUTOMATIC FERMENTATION METHOD AND SYSTEM FOR GANODERMA LUCIDUM ~71:JIANGXI BAISHEN PHARMACEUTICAL CO., LTD., Jiangxi Yuanzhou Pharmaceutical Industrial Park, Yuanzhou District, Yichun, Jiangxi, 336000, People's Republic of China ~72: HE, Yanyan;QIU, Guowang;WANG, Aicheng;YIN, Shuxuan;ZENG, Zhibin;ZHAO, Ming~ 33:CN ~31:2023111795340 ~32:13/09/2023

2024/04842 ~ Complete ~54:ANTIBODY DRUG CONJUGATES ~71:BEIGENE SWITZERLAND GMBH, Aeschengraben 27, Switzerland ~72: LUO, Wei;TSAI, Charng-Sheng;TSAI, Mei-Hsuan;WANG, Ce;WANG, Zewei;WEI, Xiaodong~ 33:CN ~31:PCT/CN2021/142037 ~32:28/12/2021;33:CN ~31:PCT/CN2022/086931 ~32:14/04/2022;33:CN ~31:PCT/CN2022/088762 ~32:24/04/2022

2024/04852 ~ Complete ~54:METHODS AND AGENTS FOR INCREASING RBM3 EXPRESSION ~71:FREIE UNIVERSITÄT BERLIN, Kaiserswerther Straße 16-18, 14195, Berlin, Germany ~72: FLORIAN HEYD;MARCO PREUSSNER~ 33:GB ~31:2118495.7 ~32:20/12/2021;33:GB ~31:2215713.5 ~32:24/10/2022

2024/04847 ~ Complete ~54:INSULATING CONTAINER FOR TAKEAWAY PIZZA ~71:MIRCO VERRANDO, Fraz. Bevera, Via Maneira, 23 I-18039, Ventimiglia (IM), Italy ~72: MIRCO VERRANDO~ 33:IT ~31:102021000029675 ~32:24/11/2021

2024/04808 ~ Provisional ~54:A WEARABLE HARVESTING AID ~71:OESDRAG (PTY) LTD, No 15 AAN DE HAWEQUAS ESTATE, HANEPOOT STRAAT, South Africa ~72: BUCKLE, Pieter Loubser;STEENKAMP, Jean Hugo~

2024/04823 ~ Complete ~54:PREPARATION METHOD AND SYSTEM FOR EVODIA RUTAECARPA FORMULA GRANULAR PREPARATION ~71:JIANGXI BAISHEN PHARMACEUTICAL CO., LTD., Jiangxi Yuanzhou Pharmaceutical Industrial Park, Yuanzhou District, Yichun, Jiangxi, 336000, People's Republic of China ~72: CAI, Liang;PENG, Guohong;PENG, Shaoping;TAN, Lingzhi;ZHANG, Haisheng;ZHANG, Qi~ 33:CN ~31:2023114903690 ~32:10/11/2023

2024/04829 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: GOMEZ, Jorge;HOLDEN, Matthew;MCGRATH, Conor~ 33:GB ~31:2118801.6 ~32:22/12/2021

2024/04832 ~ Complete ~54:AN APPARATUS AND METHOD FOR HANDLING BULK MATERIALS ~71:Bulk Innovations Pty Ltd, Suite 6, Level 1, 29 McDougall Street, MILTON 4064, QUEENSLAND, AUSTRALIA, Australia ~72: GRAY, Daryl Gordon~ 33:AU ~31:2021903778 ~32:23/11/2021

2024/04839 ~ Complete ~54:TRICYCLIC FUSED HETEROCYCLIC PDE3/4 DUAL INHIBITOR AND USE THEREOF ~71:XIZANG HAISCO PHARMACEUTICAL CO., LTD., Xingfu Jiayuan Economic Development Zone, Jieba Town, People's Republic of China ~72: LI, Yao;TANG, Pingming;YAN, Linjie;YAN, Pangke;YU, Yan;ZHANG, Chen;ZHANG, Guobiao;ZHANG, Xiaobo;ZHANG, Yaming~ 33:CN ~31:202111527081.7 ~32:14/12/2021;33:CN ~31:202210121834.2 ~32:09/02/2022

2024/04810 ~ Complete ~54:METHOD FOR COMPREHENSIVELY RECOVERING VALUABLE COMPONENTS OF ANODE MATERIALS OF WASTE LITHIUM IRON PHOSPHATE BATTERIES ~71:Zhengzhou Institute of Multipurpose Utilization of Mineral Resources, CAGS, No.328 Longhai West Road, Zhongyuan District, Zhengzhou City, Henan Province, People's Republic of China ~72: CAO Yaohua;LIU Hongzhao;LIU Lin;WANG Hongliang;WANG Wei~ 33:CN ~31:2023115235526 ~32:15/11/2023

2024/04814 ~ Complete ~54:ECOLOGICAL DRIVING ASSISTANCE SYSTEM ~71:Yazhou Bay Innovation Institute of Hainan Tropical Ocean University, 6th Floor, Hainan Ruize Office Building, Yazhou Bay Science and Technology City, Yazhou District, Sanya City, Hainan, 572025, People's Republic of China ~72: FENG, Yanhong;FENG, Yuqin;HAN, Jiale;WU, Jianing;ZHANG, Wei~

2024/04820 ~ Complete ~54:METHOD AND COMPUTER READABLE MEDIUM FOR REALIZING BULK REPORTING IN TOBACCO INDUSTRY BASED ON MULTI-FUNCTION TEXT EDITOR ~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: HUO, Chao;LIU, Xiaofei;QIN, Guoxin;WANG, Quan;WANG, Yixin;WU, Lianlian;YANG, Xiaogang;ZHANG, Bin;ZHANG, Kai;ZHU, Shan~ 33:CN ~31:202410610960.3 ~32:16/05/2024

2024/04837 ~ Complete ~54:ANTIMICROBIAL SYSTEM AND METHOD ~71:Kemira Oyj, Energiakatu 4, HELSINKI 00180, FINLAND, Finland ~72: KOLARI, Marko;SIMELL, Jaakko~ 33:GB ~31:2118671.3 ~32:21/12/2021

2024/04845 ~ Complete ~54:A DEVICE FOR PROVIDING SETS OF CARDS ~71:CARTAMUNDI SERVICES NV, Visbeekstraat 22, Belgium ~72: NIETVELT, Steven Karel Maria~ 33:EP ~31:22152602.3 ~32:21/01/2022

2024/04827 ~ Complete ~54:IMMUNOGENIC COMPOSITIONS AND THEIR USES ~71:Flagship Pioneering Innovations VI, LLC, 55 Cambridge Parkway, 8th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: CARTER, Erik Paul;MELFI, Michael Donato;NELSON, Jennifer A.~ 33:US ~31:63/283,029 ~32:24/11/2021

2024/04816 ~ Complete ~54:LOCAL CONNECTED NETWORKS FOR OUTDOOR ACTIVITIES ~71:Bushnell Inc., 9200 Cody Street, OVERLAND PARK 66214, KS, USA, United States of America ~72: PALKOWITSH, Gregory L.;SIZEMORE, Michael A.;TESFAYE, Yilak~ 33:US ~31:18/212,348 ~32:21/06/2023

2024/04855 ~ Complete ~54:OPTOGENETIC VISUAL RESTORATION USING LIGHT-SENSITIVE GQ-COUPLED NEUROPSIN (OPSIN 5) ~71:GENANS BIOTECHNOLOGY CO., LTD, Room A207 and Room A208, Building 1, No. 29 Life Park Road, Life Science Park, Changping District, Beijing, 102206, People's Republic of China ~72: DAI, Ruicheng;LUO, Minmin;WENG, Danwei;YU, Tao~ 33:CN ~31:PCT/CN2021/139750 ~32:20/12/2021

2024/04811 ~ Complete ~54:A METHOD, KIT AND APPLICATION FOR RAPID DECTION OF CHICKPEA INGREDIENTS BASED ON RPA-RPA-CRISPR-CAS12A ~71:Aifu Yang, No. 60, Changjiang East Road, Zhongshan District, Dalian, Liaoning, People's Republic of China ~72: Aifu Yang;Chao Wan;Daliang Huang;Dandan Nie;Huiqiu Liu;Lingling Jiang;Na Zhao;Qiang Hu;Rizeng Meng;Weijun Duan;Xiaoyan Zhu;Xuehua Liu;Zhijia Wang~

2024/04819 ~ Complete ~54:METHOD, SYSTEM FOR AUTOMATICALLY GENERATING CUSTOM STATEMENT FOR CIGARETTE SILK MAKING BUSINESS BY CUSTOM CONFIGURATION ~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: HUO, Chao;QI, Senwang;QIN, Guoxin;WANG, Quan;WANG, Yixin;WU, Lianlian;YANG, Xiaogang;YANG, Zhongpan;ZHANG, Kai~ 33:CN ~31:202410610882.7 ~32:16/05/2024

2024/04840 ~ Complete ~54:SOLID FORMS OF A TYK2 INHIBITOR, METHOD OF PREPARATION, AND USE THEREOF ~71:BEIGENE SWITZERLAND GMBH, Aeschengraben 27, Switzerland ~72: GUO, Yunhang;LI, Qian;SHI, Gongyin;WANG, Qiuwen;WANG, Zhiwei~ 33:CN ~31:PCT/CN2021/141005 ~32:23/12/2021;33:CN ~31:PCT/CN2022/136234 ~32:02/12/2022

2024/04822 ~ Complete ~54:AUTOMATED PRODUCTION METHOD AND SYSTEM OF SPLEEN-TONIFYING EIGHT-DELICACY CAKE ~71:JIANGXI BAISHEN PHARMACEUTICAL CO., LTD., Jiangxi Yuanzhou Pharmaceutical Industrial Park, Yuanzhou District, Yichun, Jiangxi, 336000, People's Republic of China ~72: LIN, Fanzhen;PENG, Fudong;TANG, Yan;XIE, Liang;ZHANG, Yujun;ZHOU, Xiaosong~ 33:CN ~31:2023109945655 ~32:09/08/2023

2024/04828 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: GOMEZ, Jorge;HOLDEN, Matthew;MCGRATH, Conor~ 33:GB ~31:2118822.2 ~32:22/12/2021

2024/04833 ~ Complete ~54:SESTRIN-MAPK COMPLEX INHIBITORS ~71:Sentcell Ltd, 607 Sloane Avenue 54, LONDON SW3 3EL, UNITED KINGDOM, United Kingdom ~72: LANNA, Alessio~

2024/04824 ~ Complete ~54:SPLIT NUT ASSEMBLY ~71:IMS ENGINEERING (PTY) LTD, 10 Derrick Road, 1620, Spartan, South Africa ~72: MYHILL, Athol David~ 33:ZA ~31:2021/10754 ~32:22/12/2021

2024/04831 ~ Complete ~54:DEVICE AND METHOD FOR MOLDING A TUBE HEAD BLANK OF A TUBE BLANK ~71:Hoffmann Neopac AG, Eisenbahnstrasse 71, THUN 3602, SWITZERLAND, Switzerland ~72: Eberhard, Kristijan;Wagner, Michael~ 33:CH ~31:000638/2023 ~32:15/06/2023

2024/04851 ~ Complete ~54:METHOD FOR THE PRODUCTION OF A PLANT EXTRACT ~71:VERTANICAL GMBH, Am Haag 14, 82166, Gräfelfing, Germany ~72: BASTIAN BAASCH;CLEMENS FISCHER~ 33:EP ~31:22 154 007.3 ~32:28/01/2022

2024/04854 ~ Complete ~54:ULTRA LIGHT-SENSITIVE NEUROPSIN-BASED OPTOGENETIC TOOL FOR ACTIVATING G Q -COUPLED SIGNALING AND/OR ACTIVATING CELLS ~71:GENANS BIOTECHNOLOGY CO., LTD, Room A207 and Room A208, Building 1, No, 29 Life Park Road, Life Science Park, Changping District, Beijing, 102206, People's Republic of China ~72: DAI, Ruicheng;LUO, Minmin;WENG, Danwei;YU, Tao~ 33:CN ~31:PCT/CN2021/139751 ~32:20/12/2021

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2024/04861 ~ Provisional ~54:HARNESS WIRE ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: OLWAGE Phillip;SMITH Ruan~

2024/04865 ~ Complete ~54:METHOD FOR TESTING GEOLOGICAL SAMPLE ~71:Qinghai Geological and Mineral Testing Center (Qinghai Province Eco-environmental Geology Inspection and Testing Center), Qinghai Geological and Mineral Testing Center, Guangning Road, Chengzhong District, Xining City, Qinghai Province, 810000, People's Republic of China ~72: CHEN, Xiuna;DU, Zuopeng;HUO, Chengyu;KONG, Xiaoyan;LIU, Dao;WEI, Zhenhong;ZHANG, Guolong;ZHANG, Qiyun;ZHAO, Yuqing~

2024/04879 ~ Complete ~54:METHOD OF ASYNCHRONOUS DATA COMMUNICATION AND REGISTRATION OF A USER EQUIPMENT ~71:SATELIO IOT SERVICES, S.L., C/Berlin 61, ESC. A Entresuelo, Spain ~72: CALVERAS AUGÉ, Ana María;CAMPS MUR, Daniel;GUADALUPI, Marco;KELLERMANN, Timo;RIGAZZI, Giovanni;SANPERA IZOARD, Jaume~

2024/04885 ~ Complete ~54:ANTIFOLATE LINKER-DRUGS AND ANTIBODY-DRUG CONJUGATES ~71:BYONDIS B.V., Microweg 22, 6545 CM, Nijmegen, Netherlands ~72: CHRISTINA ADRIANA BEUCKENS-SCHORTINGHUIS;DENNIS CHRISTIAN JOHANNES WAALBOER;JOHANNES ALBERTUS FREDERIKUS JOOSTEN;RONALD CHRISTIAAN ELGERSMA;TIJL HUIJBREGTS~ 33:EP ~31:21218322.2 ~32:30/12/2021

2024/04889 ~ Complete ~54:MEK IMMUNE ONCOLOGY INHIBITORS AND THERAPEUTIC USES THEREOF ~71:IMMUNEERING CORPORATION, 245 Main St, 2nd Floor, Cambridge, Massachusetts, 02142, United States of America ~72: ANITA WEGERT;BART LIEVEN DECORTE;BRETT MATTHEW HALL;JARNO POELAKKER;KEVIN FOWLER;PETER JOHN KING;ROBIN DOODEMAN;RUBEN LEENDERS;RUTGER HENK ADRIAAN FOLMER;SARAH KOLITZ~ 33:US ~31:63/297,116 ~32:06/01/2022

2024/04895 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: GOMEZ, Jorge;HOLDEN, Matthew;MCGRATH, Conor~ 33:GB ~31:2118884.2 ~32:23/12/2021

2024/04899 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: GOMEZ, Jorge;HOLDEN, Matthew;MCGRATH, Conor~ 33:GB ~31:2118880.0 ~32:23/12/2021

2024/04905 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BATES, Myles;BURTON, Andrew;CAMPBELL, Jeremy;DICKENS, Colin;DIMMICK, Barry;FROBISHER, Paul;GALATI, Rosa;HARRIMAN, Mark;JOHNSON, Trevor;O'DONNELL, Theresa;RUSHFORTH, David;SOFFE, Joanna;VICKERY, Thomas;WOODCOCK, Dominic~ 33:GB ~31:2200793.4 ~32:21/01/2022

2024/04907 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BALL, Daniel;MUSGRAVE, Damyn;XIAO, Zhihuang~ 33:GB ~31:2119026.9 ~32:24/12/2021

2024/04870 ~ Complete ~54:CONTACT LENS PLACEMENT ~71:BLIGNAUT, Marisa, 182 Nahoon Crescent, Hillside Estate, Moreletapark, South Africa ~72: BLIGNAUT, Ernst Adriaan Lodewyk;BLIGNAUT, Marisa;GOOSEN, Renaldo~

2024/04874 ~ Complete ~54:A SOLID PHARMACEUTICAL COMPOSITION ~71:ADLAI NORTYE BIOPHARMA CO., LTD., Block 8, No. 1008 Xiangwang Street, People's Republic of China ~72: CHEN, Liang;LIU, Shifeng;LU, Yang;YANG, Donghui;ZHAO, Yanhui~ 33:CN ~31:202111661891.1 ~32:30/12/2021

2024/04877 ~ Complete ~54:SINGLE-ACTION EMERGENCY THERMAL VALVE ~71:JOINT-STOCK COMPANY "ATOMENERGOPROEKT", ul. Bakuninskaya, d. 7, Russian Federation;SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE, d. 24, et. 8, kab. 820, B. Ordynka street, Russian Federation ~72: BEZLEPKIN, Vladimir Viktorovich;DROBYSHEVSKIY, Maxim Anatolievich;KOROBEINIKOV, Kirill Yuryevich;KUKHTEVICH, Vladimir Olegovich;KURCHEVSKIY, Aleksey Ivanovich;MATYUSHEV, Leonid Aleksandrovich;MITRYUKHIN, Andrey Gennadievich;SHAMRAY, Yevgeniya Leonidovna~ 33:RU ~31:2021139682 ~32:29/12/2021

2024/04882 ~ Complete ~54:TRICYCLIC DERIVATIVE INHIBITOR, PREPARATION METHOD THEREFOR, AND APPLICATION THEREOF ~71:JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China;SHANGHAI HANSOH BIOMEDICAL CO., LTD., Building 2, No.3728 Jinke Road, Zhangjiang, Hi-Tech Park, Shanghai, 201203, People's Republic of China ~72: FANGFANG JIN;JIANRUI WU;JIAQIANG DONG;LIPU ZHANG;WENSHENG YU~ 33:CN ~31:202111655759.X ~32:30/12/2021;33:CN ~31:202210249052.7 ~32:14/03/2022;33:CN ~31:202211064934.2 ~32:31/08/2022

2024/04883 ~ Complete ~54:LIQUID FORMULATIONS OF AMYLIN ANALOGUES ~71:ZEALAND PHARMA A/S, Sydmarken 11, DK-2860, Søborg, Denmark ~72: JOAKIM LUNDQVIST~ 33:EP ~31:22176247.9 ~32:30/05/2022

2024/04884 ~ Complete ~54:METHOD AND INSTALLATION FOR THE MAINTENANCE OF AN ANODE YOKE OF A HALL-HEROULT CELL ~71:DUBAI ALUMINIUM PJSC, Sheikh Zayed road, exit 25, Jebel Ali Dubai, P.O. box 3627, United Arab Emirates ~72: ABDALLA AHMED MOHAMED ALZAROONI;KARL-ERIC NEUMANN;MAHMOOD MOHAMMAD AHMAD ABDULMALIK ALAWADHI;NAGARAJ SANJEEVA DEVADIGA~ 33:EP ~31:21218096.2 ~32:29/12/2021

2024/04887 ~ Complete ~54:NOVEL ANALOGS OF VALPROIC ACID AND METHODS OF MEDICAL TREATMENT USING THE SAME ~71:CERENO SCIENTIFIC AB, BioVentureHub Pepparedsleden 1, 431 83, Mölndal, Sweden ~72: JONAS FAIJERSON SÄLJÖ;TOMAS FEX~ 33:GB ~31:2118559.0 ~32:20/12/2021

2024/04891 ~ Complete ~54:COMBINATION OF 8-CHLORO-N-(4-(TRIFLUOROMETHOXY)PHENYL)QUINOLIN-2-AMINE AND ITS DERIVATIVES WITH A JAK INHIBITOR ~71:ABIVAX, 7-11 Boulevard Haussmann, 75009, Paris, France ~72: AUDE GARCEL;DIDIER SCHERRER;JAMAL TAZI;PHILIPPE POULETTY~ 33:EP ~31:22305068.3 ~32:24/01/2022

2024/04893 ~ Complete ~54:TOPICAL FORMULATIONS OF RUXOLITINIB WITH AN ORGANIC AMINE PH ADJUSTING AGENT FOR TREATMENT OF SKIN DISEASES ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: BROWN, Marc;COFRE, Vanessa;EVANS, Charles;FIDGE, James;GUIDALI, Florencia;MCINTOSH, Tecashanell;MODEPALLI, Naresh;SHETH, Trupti~ 33:US ~31:17/541,601 ~32:03/12/2021;33:US ~31:63/365,973 ~32:07/06/2022

2024/04896 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: GOMEZ, Jorge;HOLDEN, Matthew;MCGRATH, Conor~ 33:GB ~31:2118807.3 ~32:22/12/2021

2024/04898 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: GOMEZ, Jorge;HOLDEN, Matthew;MCGRATH, Conor~ 33:GB ~31:2118879.2 ~32:23/12/2021

2024/04900 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: GOMEZ, Jorge;HOLDEN, Matthew;MCGRATH, Conor~ 33:GB ~31:2118947.7 ~32:23/12/2021

2024/04903 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: COWAN, Dean~ 33:GB ~31:2118990.7 ~32:24/12/2021

2024/04904 ~ Complete ~54:SALTS AND SOLID FORMS OF AN FGFR INHIBITOR AND PROCESSES OF PREPARING THEREOF ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: JIA, Zhongjiang;LIN, Qiyan;LIU, Pingli;MARTIN, Timothy;MI, Baoyu;SU, Naijing;XIA, Michael;ZHOU, Jiacheng~ 33:US ~31:63/292,628 ~32:22/12/2021

2024/04906 ~ Complete ~54:MOUTH COMPONENT FOR AN AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BURGESS, Jonathan;GOMEZ, Jorge;HOLDEN, Matthew~ 33:GB ~31:2118804.0 ~32:22/12/2021

2024/04909 ~ Complete ~54:AEROSOL GENERATING DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: COWAN, Dean;HODGSON, Matthew;TAVERN, Sydney~ 33:GB ~31:2118725.7 ~32:22/12/2021

2024/04913 ~ Complete ~54:ARMED STRIKE PLATE ~71:DE VILLIERS, Marius de Wet, 1 Hoog Street, South Africa ~72: DE VILLIERS, Marius de Wet~ 33:ZA ~31:2021/09448 ~32:24/11/2021;33:ZA ~31:2022/11018 ~32:10/10/2022

2024/04915 ~ Complete ~54:PARTICLES, AQUEOUS DISPERSIONS, AND LIQUID COMPOSITIONS HAVING HIGH LIPOPHILIC COMPONENT CONCENTRATIONS AND LIPOPHILIC COMPONENT TO SURFACTANT RATIOS ~71:SPOKE SCIENCES, INC., 15113 Washington Ave. NE, Bainbridge Island, United States of America ~72: MITCHNICK, Mark~ 33:US ~31:63/284,921 ~32:01/12/2021

2024/04864 ~ Complete ~54:METHOD FOR TESTING SOIL SEDIMENT ~71:Qinghai Geological and Mineral Testing Center (Qinghai Province Eco-environmental Geology Inspection and Testing Center), Qinghai Geological and Mineral Testing Center, Guangning Road, Chengzhong District, Xining City, Qinghai Province, 810000, People's Republic of China ~72: BAO, Caihong;DU, Zuopeng;LIU, Dao;SHI, Hua;ZHANG, Jianmin;ZHANG, Ming;ZHANG, Qiyun;ZHAO, Yuqing;ZHU, Lin~

2024/04871 ~ Complete ~54:DATA PROCESSING DEVICE FOR IMAGE TRANSMISSION ~71:Xinyu University, No. 2666, Sunshine Avenue, High Tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: Lin Chunxia;Xiang Zhongqi;Xu Zhaosheng~ 33:CN ~31:2024106621095 ~32:27/05/2024

2024/04863 ~ Complete ~54:EDITING SYSTEM AND METHOD FOR STANDARD FILE ~71:Hubei Institute of Standardization and Quality (Hubei WTO/TBT Notification Consulting Center), No. 6, Gongping Road, Wuchang

District, Wuhan City, Hubei Province, 430061, People's Republic of China ~72: CHEN, Lei;CHEN, Yanming;HAN, Yangyu;LU, Xi;SHAO, Xuan;SHI, Ying;SHU, Cheng;XU, Shukun~

2024/04867 ~ Complete ~54:OIL-WATER SEPARATION MEMBRANE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Hainan Tropical Ocean University, No.1 Yucai Road, Jiyang District, Sanya City, Hainan Province, People's Republic of China;Yazhou Bay Innovation Institute of Hainan Tropical Ocean University, Yazhou Bay Science and Technology City, Sanya City, Hainan Province, People's Republic of China ~72: CHEN Qingrong;SHI Yaqin;WAN Wubo;WEI Weijie;WU Chuntao;WU Xiangen~

2024/04872 ~ Complete ~54:FENCE ARRANGEMENT ~71:MHANGANA TECHNOLOGIES (PTY) LTD., 14 African Street, GRAHAMSTOWN 6139, Eastern Cape, SOUTH AFRICA, South Africa ~72: DU PLESSIS, Frans~ 33:ZA ~31:2023/06498 ~32:23/06/2023

2024/04876 ~ Complete ~54:DEVICE FOR COMBUSTING AMMONIA ~71:FEDERAL'NOE GOSUDARSTVENNOE UNITARNOE PREDPRIYATIE 'ROSSIYSKIY FEDERAL'NIY YADERNIY TSENTR - VSEROSSIYSKIY NAUCHNO-ISSLEDOVATEL'SKIY INSTITUT EKSPEREMENTAL'NOY FIZIKI', pr. Mira, 37 Nizhegorodskaya obl., Russian Federation;JOINT STOCK COMPANY "ROSENERGOATOM", ul. Ferganskaya, d. 25, Russian Federation;SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE, B. Ordynka street, d. 24, et. 8, kab. 820, Russian Federation ~72: BRIZITSKIY, Oleg Fedorovich (deceased);FILIMONOV, Sergey Vladimirovich;KHROBOSTOV, Lev Nikolayevich;MOROZOV, Yuriy Vasil'evich;TERENT'EV, Valeriy Yakovlevich~ 33:RU ~31:2021138240 ~32:22/12/2021

2024/04880 ~ Complete ~54:MODULATION OF GENE TRANSCRIPTION USING ANTISENSE OLIGONUCLEOTIDES TARGETING REGULATORY RNAS ~71:CAMP4 THERAPEUTICS CORPORATION, One Kendall Square, Building 1400 West, United States of America ~72: BUMCROT, David A.;CARAVELLA, Justin A.;GAMBOA, Mario Esteban Contreras;GUO, Yuchun;JUNG, Yun Joon;KELKAR, Rachana S.;LIU, Yuting;MATTHEWS, Bryan J.;MOUKHEIBER, Henry Munir;PAI, Rutuja Sudhakar;ROY, Subhadeep;SEHGAL, Alfica~ 33:US ~31:63/292,920 ~32:22/12/2021;33:US ~31:63/308,373 ~32:09/02/2022

2024/04881 ~ Complete ~54:METHOD OF IMPROVING PLANT GROWTH ~71:UPL LIMITED, UPL House, 610 B/2, Bandra Village, Off Western Express Highway, Bandra-East Maharashtra Mumbai 400051, India ~72: GUPTA, Brijesh Kumar;NAGANUR, Sunil;NARAYANASAMY, Rajapandian Ramanathan;SANGLE, Prabhakar~ 33:IN ~31:202121054323 ~32:24/11/2021

2024/04886 ~ Complete ~54:VISION ASSEMBLY FOR FRUIT AND VEGETABLE PRODUCTS, AND ASSOCIATED APPARATUS ~71:UNITEC S.P.A., Via Provinciale Cotignola, 20/9, 48022, Lugo, Italy ~72: LUCA BENEDETTI~ 33:IT ~31:102022000000008 ~32:03/01/2022

2024/04888 ~ Complete ~54:TREATMENT OF MODERATE TO VERY SEVERE GLABELLAR LINES AND LATERAL CANTHAL LINES ~71:GALDERMA HOLDING SA, Z?hlerweg 10, 6300, ZU, Switzerland;IPSEN BIOPHARM LIMITED, Unit 9, Ash Road, Wrexham Industrial Estate, Wrexham, LL13 9UF, United Kingdom ~72: ANNA NILSSON;COURTNEY MAGUIRE;EVA AXEN;FELIPE WEINBERG;XIAOMING LIN~ 33:US ~31:63/299,705 ~32:14/01/2022;33:US ~31:63/399,127 ~32:18/08/2022

2024/04892 ~ Complete ~54:CATALYST COMPOSITION FOR OLIGOMERIZATION REACTION ~71:SABIC GLOBAL TECHNOLOGIES B.V., Plasticslaan 1, Netherlands ~72: AL-DAJANE, Maher Matar;AL-NEZARI, Abdulaziz;AZAM, Shahid;KOROBKOV, Ilia;LICCIULLI, Sebastiano~ 33:EP ~31:21217291.0 ~32:23/12/2021

2024/04894 ~ Complete ~54:AEROSOLISABLE MATERIAL ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BURTON,

Andrew;COMERFORD, Tony;HUGHES, Alice;SEAMAN, Matthew;TOWER, Danielle~ 33:GB ~31:2200448.5 ~32:14/01/2022

2024/04897 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: GOMEZ, Jorge;HOLDEN, Matthew;MCGRATH, Conor~ 33:GB ~31:2118812.3 ~32:22/12/2021

2024/04901 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: BURGESS, Jonathan;GOMEZ, Jorge;HOLDEN, Matthew;MCGRATH, Conor~ 33:GB ~31:2118894.1 ~32:23/12/2021

2024/04908 ~ Complete ~54:METHOD OF MANUFACTURING OR ASSEMBLING AN AEROSOL GENERATOR ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BALL, Daniel;XIAO, Zhihuang~ 33:GB ~31:2119029.3 ~32:24/12/2021

2024/04912 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: GOMEZ, Jorge;HOLDEN, Matthew;MCGRATH, Conor~ 33:GB ~31:2118882.6 ~32:23/12/2021

2024/04916 ~ Provisional ~54:JIGSIMUR ~71:ABDUL NASSER OMAR, 28-6TH AVENUE, RONDEBOSH EAST, South Africa ~72: ABDUL NASSER OMAR~

2024/04890 ~ Complete ~54:METHOD OF PREPARATION OF 1-(N-(QUINOLIN-2-YL)- (PHENYLAMINO)-1-DEOXY-BETA-D-GLUCOPYRANURONIC ACID DERIVATIVES ~71:ABIVAX, 7-11 Boulevard Haussmann, 75009, Paris, France ~72: GUILLAUME MAGUEUR;JÉRÔME DENIS;SÉBASTIEN ROSE~ 33:EP ~31:21306866.1 ~32:21/12/2021

2024/04902 ~ Complete ~54:AEROSOL PROVISION DEVICE ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: COWAN, Dean~ 33:GB ~31:2118989.9 ~32:24/12/2021

2024/04910 ~ Complete ~54:SCALABLE AND HIGH-PURITY CELL-FREE SYNTHESIS OF CLOSED-ENDED DNA VECTORS ~71:Generation Bio Co., 301 Binney Street, 4th Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: BLACKSTOCK, Daniel Jason;CIPI, Joris;DURANT, John Chester;MONDS, Russell~ 33:US ~31:63/293,337 ~32:23/12/2021

2024/04914 ~ Complete ~54:A DEVICE FOR DELIVERING AN ORBITAL FLUID JET ~71:GANSHOF VAN DER MEERSCH, Nicolas, Chemin de la Louye 15, Switzerland;RAISSI, Kaddour, 100, rue de Menilmontant, France ~72: GANSHOF VAN DER MEERSCH, Nicolas;RAISSI, Kaddour~ 33:GB ~31:2118899.0 ~32:23/12/2021

2024/04866 ~ Complete ~54:METHOD FOR COMPREHENSIVE UTILIZATION OF SOLID WASTE ~71:Qinghai Geological and Mineral Testing Center (Qinghai Province Eco-environmental Geology Inspection and Testing Center), Qinghai Geological and Mineral Testing Center, Guangning Road, Chengzhong District, Xining City, Qinghai Province, 810000, People's Republic of China ~72: LIU, Dao;MA, Lingui;SHI, Hua;SU, Yuping;ZHANG, Jianmin;ZHANG, Ming;ZHANG, Qiyun;ZHAO, Yuqing;ZHU, Jiajia;ZHU, Lin~

2024/04869 ~ Complete ~54:A RIDGE-CULTIVATED CROP WEEDING ROBOT ~71:GUANGXI VOCATIONAL UNIVERSITY OF AGRICULTURE, No. 176, Daxue East Road, Xixiangtang District, Nanning City, Guangxi Zhuang Autonomous Region, People's Republic of China ~72: Jiang Honghai;Lu Zhihong;Zhou Ning~ 33:CN ~31:2024105584296 ~32:07/05/2024

2024/04911 ~ Complete ~54:UNDERGROUND MINING METHODS VIA BOREHOLES AND MULTILATERAL BLAST-HOLES ~71:PALMER, Daniel, B., 5132 Cathedral Oaks Rd., SANTA BARBARA 93111, CA, USA, United States of America ~72: PALMER, Daniel B.~ 33:US ~31:63/293,057 ~32:22/12/2021

2024/04860 ~ Provisional ~54:THE CLASSIC ~71:Sipelele Mkumatela, 2 MUSHROOM ROAD, MIDRAND, South Africa ~72: Sipelele Mkumatela~

2024/04862 ~ Provisional ~54:NON-LINEAR REACTOR ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, South Africa ~72: Jacobus Johannes van der Merwe~

2024/04868 ~ Complete ~54:INTELLIGENT, EFFICIENT AND CONVENIENT DEVICE FOR FARMLAND MULCHING FILM ~71:Agriculture Resource and Environment Research Institute, Tibet Academy of Agriculture and Animal Science, Jinzhu West Road, Lhasa City, Tibet Autonomous Region, 850032, People's Republic of China ~72: ZHANG Huaguo~

2024/04873 ~ Complete ~54:LOW-HEAT CEMENT CONCRETE FOR COMPLEX HIGH-ALTITUDE ENVIRONMENTS AND PREPARATION METHOD THEREOF ~71:CNBM Zhongyanyi Technology Co., Ltd., No. 1 Guanzhuang Dongli, Chaoyang District, Beijing, 100024, People's Republic of China;China Building Materials Academy Co., Ltd., No. 1 Guanzhuang Dongli, Chaoyang District, Beijing, 100024, People's Republic of China;China National Building Material Group Co., Ltd., Building 2, Guohai Plaza, No. 17 Fuxing Road, Haidian District, Beijing, 100036, People's Republic of China ~72: Ao LIU;Guanbao TANG;Guang YAO;Kunyue ZHANG;Min WANG;Mingming SUN;Suihua GUO;Wen HUANG;Xianbin WANG;Xianshu GAO;Xiao ZHI;Yang YU;Yirui LI;Yun LIU;Zhaijun WEN~ 33:CN ~31:202311121485.5 ~32:01/09/2023

2024/04878 ~ Complete ~54:CRYSTAL FORM OF NUCLEOSIDE COMPOUND ~71:Shenzhen AntiV Pharma Co., Ltd., Room 1904, Building 10, Biomedical Innovation Industrial Park, No. 14 Jinhui Road, Jinsha Community, Kengzi Street, Pingshan District, Shenzhen,, Guangdong, 518118, People's Republic of China ~72: LI Guanguan;LI Shuo;LI Yingjun;LIU Xinjun;ZHOU Qifan~ 33:CN ~31:202111593324.7 ~32:23/12/2021

2024/04875 ~ Complete ~54:WEAR ASSEMBLY AND REMOVAL SYSTEM ~71:ESCO GROUP LLC, 2141 NW 25th Avenue, United States of America ~72: BEATLEY, Mark, T;BINGHAM, Bruce, C;HARDING, Darrin~ 33:US ~31:63/288,873 ~32:13/12/2021

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

Application Number	Assignor	Assignee
2015/04570	INTERACTIVE INTELLIGENCE, INC.	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.
2015/04570	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.	INTERACTIVE PURECLOUD, INC.
2015/04570	INTERACTIVE PURECLOUD, INC.	INTERACTIVE INTELLIGENCE CAAS, INC.
2015/04570	INTERACTIVE INTELLIGENCE CAAS, INC.	INTERACTIVE INTELLIGENCE HARDWARE, INC.
2015/04570	INTERACTIVE INTELLIGENCE HARDWARE, INC.	INTERACTIVE INTELLIGENCE GROUP, INC.
2015/04570	INTERACTIVE INTELLIGENCE GROUP, INC.	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.
2014/08883	INTERACTIVE INTELLIGENCE, INC.	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.
2014/08883	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.	INTERACTIVE PURECLOUD, INC.

Application Number	Assignor	Assignee
2014/08883	INTERACTIVE PURECLOUD, INC.	INTERACTIVE INTELLIGENCE CAAS, INC.
2014/08883	INTERACTIVE INTELLIGENCE CAAS, INC.	INTERACTIVE INTELLIGENCE HARDWARE, INC.
2014/08883	INTERACTIVE INTELLIGENCE HARDWARE, INC.	INTERACTIVE INTELLIGENCE GROUP, INC.
2014/08883	INTERACTIVE INTELLIGENCE GROUP, INC.	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.
2015/01228	INTERACTIVE INTELLIGENCE, INC.	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.
2015/01228	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.	INTERACTIVE PURECLOUD, INC.
2015/01228	INTERACTIVE PURECLOUD, INC.	INTERACTIVE INTELLIGENCE CAAS, INC.
2015/01228	INTERACTIVE INTELLIGENCE CAAS, INC.	INTERACTIVE INTELLIGENCE HARDWARE, INC.
2015/01228	INTERACTIVE INTELLIGENCE HARDWARE, INC.	INTERACTIVE INTELLIGENCE GROUP, INC.
2015/01228	INTERACTIVE INTELLIGENCE GROUP, INC.	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.
2016/07696	INTERACTIVE INTELLIGENCE, INC.	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.
2016/07696	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.	INTERACTIVE PURECLOUD, INC.
2016/07696	INTERACTIVE PURECLOUD, INC.	INTERACTIVE INTELLIGENCE CAAS, INC.
2016/07696	INTERACTIVE INTELLIGENCE CAAS, INC.	INTERACTIVE INTELLIGENCE HARDWARE, INC.
2016/07696	INTERACTIVE INTELLIGENCE HARDWARE, INC.	INTERACTIVE INTELLIGENCE GROUP, INC.
2016/07696	INTERACTIVE INTELLIGENCE GROUP, INC.	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.
2015/01227	INTERACTIVE INTELLIGENCE, INC.	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.
2015/01227	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.	INTERACTIVE PURECLOUD, INC.
2015/01227	INTERACTIVE PURECLOUD, INC.	INTERACTIVE INTELLIGENCE CAAS, INC.
2015/01227	INTERACTIVE INTELLIGENCE CAAS, INC.	INTERACTIVE INTELLIGENCE HARDWARE, INC.
2015/01227	INTERACTIVE INTELLIGENCE HARDWARE, INC.	INTERACTIVE INTELLIGENCE GROUP, INC.
2015/01227	INTERACTIVE INTELLIGENCE GROUP, INC.	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.
2015/01125	INTERACTIVE INTELLIGENCE, INC.	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.
2015/01125	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.	INTERACTIVE PURECLOUD, INC.
2015/01125	INTERACTIVE PURECLOUD, INC.	INTERACTIVE INTELLIGENCE CAAS, INC.
2015/01125	INTERACTIVE INTELLIGENCE CAAS, INC.	INTERACTIVE INTELLIGENCE HARDWARE, INC.
2015/01125	INTERACTIVE INTELLIGENCE HARDWARE, INC.	INTERACTIVE INTELLIGENCE GROUP, INC.
2015/01125	INTERACTIVE INTELLIGENCE GROUP, INC.	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.
2016/00604	INTERACTIVE INTELLIGENCE,	INTERACTIVE INTELLIGENCE

Application Number	Assignor	Assignee
	INC.	MARKETPLACE, INC.
2016/00604	INTERACTIVE INTELLIGENCE MARKETPLACE, INC.	INTERACTIVE PURECLOUD, INC.
2016/00604	INTERACTIVE PURECLOUD, INC.	INTERACTIVE INTELLIGENCE CAAS, INC.
2016/00604	INTERACTIVE INTELLIGENCE CAAS, INC.	INTERACTIVE INTELLIGENCE HARDWARE, INC.
2016/00604	INTERACTIVE INTELLIGENCE HARDWARE, INC.	INTERACTIVE INTELLIGENCE GROUP, INC.
2016/00604	INTERACTIVE INTELLIGENCE GROUP, INC.	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.
2016/04177	INTERACTIVE INTELLIGENCE GROUP, INC.	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.
2022/02425	TRUDELL MEDICAL INTERNATIONAL	TRUDELL MEDICAL INTERNATIONAL INC.
2012/02434	HORIZON ORPHAN LLC	HORIZON THERAPEUTICS U.S. HOLDING LLC
2015/08783	HORIZON ORPHAN LLC	HORIZON THERAPEUTICS U.S. HOLDING LLC
2021/04459	MYMETICS CORPORATION	CATALENT U.K. SWINDON ZYDIS LTD.,
2019/01476	SWINBURNE UNIVERSITY OF TECHNOLOGY	ROYAL MELBOURNE INSTITUTE OF TECHNOLOGY LIMITED
2023/06749	V2 FAMILY TRUST	V2 IP (PTY) LTD
2012/02168	UPSHER-SMITH LABORATORIES, LLC	TONIX MEDICINES, INC.
2021/10260	RAPID GENOMICS LLC	LGC GENOMICS LLC
2021/10344	RAPID GENOMICS LLC	LGC GENOMICS LLC
2021/07180	TIBET UNIVERSITY	XIZANG ANIDO ECOLOGICAL TECHNOLOGY CO., LTD.
2024/03776	HUI LIU	JIAXING VOCATIONAL AND TECHNICAL COLLEGE
2017/04164	THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD	OXFORD UNIVERSITY INNOVATION LIMITED
2017/04164	OXFORD UNIVERSITY INNOVATION LIMITED	OXA AUTONOMY LTD
2017/03415	THE CHANCELLOR MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD	OXFORD UNIVERSITY INNOVATION LIMITED
2017/03415	OXFORD UNIVERSITY INNOVATION LIMITED	OXA AUTONOMY LTD
2014/09524	HITACHI POWER SOLUTIONS CO., LTD.	HITACHI CONSTRUCTION MACHINERY CO., LTD.
2024/03778	SHAUNGXI CHEN	JIAXING VOCATIONAL AND TECHNICAL COLLEGE
2024/03777	SHAUNGXI CHEN	JIAXING VOCATIONAL AND TECHNICAL COLLEGE
2024/03774	SHAUNGXI CHEN	JIAXING VOCATIONAL AND TECHNICAL COLLEGE
2024/03775	SHAUNGXI CHEN	JIAXING VOCATIONAL AND TECHNICAL COLLEGE
2024/00849	SOUTHWEST UNIVERSITYOF SCIENCE AND TECHNOLOGY	SICHUAN ZHENTONG INSPECTION CO., LTD.
2024/03320	SICHUAN ZHIRENFA BIOLOGICAL TECHNOLOGY CO., LTD	SICHUAN BOZHIDUO TECHNOLOGY CO., LTD and ZIGONG ZHISHENGXIN TECHNOLOGY

Application Number	Assignor	Assignee
	CHIH-YUAN TSOU	CO., LTD
2024/03318	XUEFEI HU	SICHUAN BOZHIDUO TECHNOLOGY CO., LTD and ZIGONG ZHISHENGXIN TECHNOLOGY CO., LTD
2021/00504	SIERRA ONCOLOGY, LLC	GLAXOSMITHKLINE LLC
2013/01420	JANSSEN BIOTECH, INC.	XBIOTECH INC.
2015/02217	JANSSEN BIOTECH, INC.	XBIOTECH INC.
2014/02057	JANSSEN BIOTECH, INC.	XBIOTECH INC.
2022/04529	ECCOGENE (SHANGHAI) CO., LTD.	ECCOGENE INC.
2022/07541	ECCOGENE (SHANGHAI) CO., LTD.	ECCOGENE INC.
2022/09050	IDAC HOLDINGS, INC.	INTERDIGITAL PATENT HOLDINGS, INC.
2022/11319	IDAC HOLDINGS, INC.	INTERDIGITAL PATENT HOLDINGS, INC.
2017/01329	THYSSENKRUPP INDUSTRIAL SOLUTIONS AG	THYSSENKRUPP UHDE GMBH
2023/00913	TCER ONCOLOGY AB	NEOGAP THERAPEUTICS AB
2022/11701	INSTITUT PASTEUR	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE and INSTITUT PASTEUR
2017/03366	ABEL PIENAAR	RIAAN PIENAAR and RUBEN GRUNDLINGH
2023/06193	TPS GLOBAL (PTY) LIMITED	SWARDT, NICHOLAS JACOBUS
2017/06616	CANCER RESEARCH TECHNOLOGY LIMITED	ACHILLES THERAPEUTICS UK LIMITED
2018/06699	FLOWROX OY	NELES FINLAND OY
2014/02340	FLOWROX OY	NELES FINLAND OY
2020/03146	SUMITOMO CHEMICAL ENVIRO-AGRO ASIA PACIFIC SDN. BHD.	SUMITOMO CHEMICAL COMPANY, LIMITED
2016/00205	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2005/06454	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2005/03289	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2006/01168	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2006/08182	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2006/09163	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2007/01901	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2007/02177	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2007/02959	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2007/08256	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2007/10578	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2007/10681	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2008/04071	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2008/05399	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2009/04059	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2009/09155	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2009/09194	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2010/00486	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2010/00804	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2010/01366	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2010/01706	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2010/03205	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2010/03577	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2010/04991	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY

Application Number	Assignor	Assignee
2010/05024	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2010/08750	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2010/08992	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2011/05213	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2011/05341	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2012/01281	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2012/01320	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2012/02661	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2012/02666	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2012/03815	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2012/04061	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2012/04626	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2012/07731	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2013/05265	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2013/06228	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2013/07634	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2013/09268	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2013/09401	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2013/09666	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/00251	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/00282	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/00444	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/00475	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/00681	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/01226	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/03448	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/06402	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/06582	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/08376	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/08400	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2014/09431	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2015/00635	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2015/03137	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2015/03796	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2015/06881	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2015/07801	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2016/00208	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2016/01093	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2016/01094	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2016/01095	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2016/02244	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2016/04162	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2016/04226	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2016/04264	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2016/04376	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2017/03564	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2017/05741	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2018/01877	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2018/02129	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2018/03599	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY

Application Number	Assignor	Assignee
2019/00453	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2019/02908	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2019/04237	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2019/05163	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2019/06009	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2019/06113	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2021/05709	METSO OUTOTEC FINLAND OY	METSO OUTOTEC METALS OY
2016/00194	IVERIC BIO, INC.	ASTELLAS US LLC
2015/08356	HUAWEI TECHNOLOGIES CO., LTD.	GODO KAISHA IP BRIDGE 1
2017/05808	SASOL WAX GMBH	SASOL GERMANY GMBH
2017/00700	HUAWEI TECHNOLOGIES CO., LTD.	GODO KAISHA IP BRIDGE 1
2016/08212	HUAWEI TECHNOLOGIES CO., LTD.	GODO KAISHA IP BRIDGE 1
2016/02911	HUAWEI TECHNOLOGIES CO., LTD.	GODO KAISHA IP BRIDGE 1
2014/03059	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2017/02166	HUAWEI TECHNOLOGIES CO., LTD.	GODO KAISHA IP BRIDGE 1
2015/02245	HUAWEI TECHNOLOGIES CO., LTD.	GODO KAISHA IP BRIDGE 1
2015/08276	HUAWEI TECHNOLOGIES CO., LTD.	GODO KAISHA IP BRIDGE 1
2018/02230	VALE S.A.	VALE. S.A. and ASSOCIACAO INSTITUTO TECHNOLOGICO VALE - IT
2013/05407	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC
2012/00481	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2010/00972	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2012/02835	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2022/12503	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2015/03289	HUAWEI TECHNOLOGIES CO., LTD.	GODO KAISHA IP BRIDGE 1
2015/07875	HUAWEI TECHNOLOGIES CO., LTD.	GODO KAISHA IP BRIDGE 1
2018/08098	SASOL WAX GMBH	SASOL GERMANY GMBH
2020/03239	SASOL WAX GMBH	SASOL GERMANY GMBH
2020/06286	SASOL WAX GMBH	SASOL GERMANY GMBH
2013/03623	SASOL WAX GMBH	SASOL GERMANY GMBH
2013/01599	SASOL WAX GMBH	SASOL GERMANY GMBH
2016/02246	HUAWEI TECHNOLOGIES CO., LTD.	GODO KAISHA IP BRIDGE 1
2017/08234	CENTURION BIOPHARMA CORPORATION	CYTRX CORPORATION
2021/01695	QIP INTERNATIONAL PTY LTD	INTELLECTUAL PROPERTY PTY LTD
2017/01644	C4X DISCOVERY LIMITED	INDIVIOR UK LIMITED
2020/02949	CENTURION BIOPHARMA	CYTRX CORPORATION

Application Number	Assignor	Assignee
	CORPORATION	
2020/02951	CENTURION BIOPHARMA CORPORATION	CYTRX CORPORATION
2021/07581	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2021/00386	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2015/08327	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2020/03831	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2020/06210	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2023/06592	TIANJIN INSTITUTE OF INDUSTRIAL BIOTECHNOLOGY, CHINESE ACADEMY OF SCIENCES	NATIONAL CENTER OF TECHNOLOGY INNOVATION FOR SYNTHETIC BIOLOGY CO., LTD.
2010/06770	4SC AG	BIONTECH AG
2023/03738	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2016/05437	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2021/00384	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2023/06500	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2017/00867	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2021/00382	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2010/05917	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2012/02836	MEDICAGO INC.	ARAMIS BIOTECHNOLOGIES INC.
2021/00820	CENTURION BIOPHARMA CORPORATION	CYTRX CORPORATION
2018/06932	METSO SWEDEN AB	METSO MINERALS OY
2023/06084	CONRADIE FAMILY TRUST	GRANAAT TRUST
2018/03865	GIESE, ARMIN and SCHMIDT, FELIX	MAX-PLANCK-GESELLSCHAFT ZUR FORDERUNG DER WISSENSCHAFTEN E.V.
2018/05046	C4X DISCOVERY LIMITED	INDIVIOR UK LIMITED
2023/01770	ZHENGZHOU RESEARCH INSTITUTE OF MECHANICAL ENGINEERING CO., LTD.	ZRIME GEARING TECHNOLOGY CO., LTD.
2023/00594	ZHENGZHOU RESEARCH INSTITUTE OF MECHANICAL ENGINEERING CO., LTD.	ZRIME GEARING TECHNOLOGY CO., LTD.
2022/13751	ZHENGZHOU RESEARCH INSTITUTE OF MECHANICAL ENGINEERING CO., LTD.	ZRIME GEARING TECHNOLOGY CO., LTD.
2022/00436	ZHENGZHOU RESEARCH INSTITUTE OF MECHANICAL	ZRIME GEARING TECHNOLOGY CO., LTD.

Application Number	Assignor	Assignee
	ENGINEERING CO., LTD.	
2021/04135	ZHENGZHOU RESEARCH INSTITUTE OF MECHANICAL ENGINEERING CO., LTD.	ZRIME GEARING TECHNOLOGY CO., LTD.
2022/11814	ZHENGZHOU RESEARCH INSTITUTE OF MECHANICAL ENGINEERING CO., LTD.	ZRIME GEARING TECHNOLOGY CO., LTD.
2008/02029	GSK CONSUMER HEALTHCARE SARL	KARO HEALTHCARE AB
2023/07299	GENERAL ELECTRIC COMPANY	GENERAL ELECTRIC TECHNOLOGY GMBH

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2015/04570	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.	GENESYS CLOUD SERVICES, INC.
2014/08883	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.	GENESYS CLOUD SERVICES, INC.
2015/01228	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.	GENESYS CLOUD SERVICES, INC.
2016/07696	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.	GENESYS CLOUD SERVICES, INC.
2015/01227	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.	GENESYS CLOUD SERVICES, INC.
2015/01125	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.	GENESYS CLOUD SERVICES, INC.
2016/00604	GENESYS TELECOMMUNICATIONS LABORATORIES, INC.	GENESYS CLOUD SERVICES, INC.
2010/01879	HUNTSMAN TEXTILE EFFECTS (SWITZERLAND) GMBH	ARCHROMA (SWITZERLAND) GMBH
2012/00455	HUNTSMAN TEXTILE EFFECTS (SWITZERLAND) GMBH	ARCHROMA (SWITZERLAND) GMBH
2012/05797	HUNTSMAN TEXTILE EFFECTS (SWITZERLAND) GMBH	ARCHROMA (SWITZERLAND) GMBH
2009/08894	MERCK & CIE	MERCK & CIE KMG
2023/01234	ICM (INSTITUT DE CANCEROLOGIE DE MONTPELLIER)	INSTITUT REGIONAL DU CANCER DE MONTPELLIER
2022/10586	NUTRIVERT LLC	NUTRIVERT INC.
2021/00504	SIERRA ONCOLOGY, INC.	SIERRA ONCOLOGY, LLC
2017/03585	CALIDI BIOTHERAPEUTICS, INC.	CALIDI BIOTHERAPEUTICS (NEVADA), INC.
2013/07112	HUNTSMAN TEXTILE EFFECTS	ARCHROMA (SWITZERLAND) GMBH

Application Number	In the name of	New name
	(SWITZERLAND) GMBH	
2021/03063	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2023/06868	INTREXON CORPORATION	PRECIGEN, INC.
2019/04623	INTREXON CORPORATION	PRECIGEN, INC.
2023/04393	ACCELERATED AG TECHNOLOGIES, LLC	POWERPOLLEN, INC.
2017/06440	UCL BUSINESS PLC	UCL BUSINESS LTD
2022/07329	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2020/03781	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2019/01820	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2019/01909	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2019/03416	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2021/02878	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2019/03984	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2011/05129	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2021/03511	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2010/08608	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2022/13602	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2021/06240	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2021/03978	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2005/09800	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2018/06687	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2016/02520	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2015/01811	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2014/00889	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2013/09452	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2013/05269	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2013/05268	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2013/05267	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS

Application Number	In the name of	New name
2012/08534	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2011/06176	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2011/05130	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2021/06239	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2011/03014	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2010/09021	DUPONT NUTRITION BIOSCIENCES APS	INTERNATIONAL N&H DENMARK APS
2023/10488	PIPELINE THERAPEUTICS, INC.	CONTINEUM THERAPEUTICS, INC.
2022/03684	PIPELINE THERAPEUTICS, INC.	CONTINEUM THERAPEUTICS, INC.
2023/07145	HERAEUS DEUTSCHLAND GMBH & CO. KG	HERAEUS PRECIOUS METALS GMBH & CO.KG.
2005/03289	METSO OUTOTEC METALS OY	METSO METALS OY
2005/06454	METSO OUTOTEC METALS OY	METSO METALS OY
2006/01168	METSO OUTOTEC METALS OY	METSO METALS OY
2006/08182	METSO OUTOTEC METALS OY	METSO METALS OY
2006/09163	METSO OUTOTEC METALS OY	METSO METALS OY
2007/01901	METSO OUTOTEC METALS OY	METSO METALS OY
2007/02177	METSO OUTOTEC METALS OY	METSO METALS OY
2007/02959	METSO OUTOTEC METALS OY	METSO METALS OY
2007/08256	METSO OUTOTEC METALS OY	METSO METALS OY
2007/10578	METSO OUTOTEC METALS OY	METSO METALS OY
2007/10681	METSO OUTOTEC METALS OY	METSO METALS OY
2008/04071	METSO OUTOTEC METALS OY	METSO METALS OY
2008/05399	METSO OUTOTEC METALS OY	METSO METALS OY
2009/04059	METSO OUTOTEC METALS OY	METSO METALS OY
2009/09155	METSO OUTOTEC METALS OY	METSO METALS OY
2009/09194	METSO OUTOTEC METALS OY	METSO METALS OY
2009/09194	METSO OUTOTEC METALS OY	METSO METALS OY
2010/00486	METSO OUTOTEC METALS OY	METSO METALS OY
2010/00804	METSO OUTOTEC METALS OY	METSO METALS OY
2010/01366	METSO OUTOTEC METALS OY	METSO METALS OY
2010/01366	METSO OUTOTEC METALS OY	METSO METALS OY
2010/01706	METSO OUTOTEC METALS OY	METSO METALS OY
2010/03205	METSO OUTOTEC METALS OY	METSO METALS OY
2010/03205	METSO OUTOTEC METALS OY	METSO METALS OY
2010/03577	METSO OUTOTEC METALS OY	METSO METALS OY
2010/04991	METSO OUTOTEC METALS OY	METSO METALS OY
2010/05024	METSO OUTOTEC METALS OY	METSO METALS OY
2010/08750	METSO OUTOTEC METALS OY	METSO METALS OY
2010/08992	METSO OUTOTEC METALS OY	METSO METALS OY
2011/05213	METSO OUTOTEC METALS OY	METSO METALS OY
2011/05341	METSO OUTOTEC METALS OY	METSO METALS OY
2012/01281	METSO OUTOTEC METALS OY	METSO METALS OY
2012/01320	METSO OUTOTEC METALS OY	METSO METALS OY
2012/02661	METSO OUTOTEC METALS OY	METSO METALS OY
2012/02666	METSO OUTOTEC METALS OY	METSO METALS OY

Application Number	In the name of	New name
2012/03815	METSO OUTOTEC METALS OY	METSO METALS OY
2012/04061	METSO OUTOTEC METALS OY	METSO METALS OY
2012/04626	METSO OUTOTEC METALS OY	METSO METALS OY
2012/07731	METSO OUTOTEC METALS OY	METSO METALS OY
2013/05265	METSO OUTOTEC METALS OY	METSO METALS OY
2013/06228	METSO OUTOTEC METALS OY	METSO METALS OY
2013/07634	METSO OUTOTEC METALS OY	METSO METALS OY
2013/09268	METSO OUTOTEC METALS OY	METSO METALS OY
2013/09401	METSO OUTOTEC METALS OY	METSO METALS OY
2013/09666	METSO OUTOTEC METALS OY	METSO METALS OY
2014/00251	METSO OUTOTEC METALS OY	METSO METALS OY
2014/00282	METSO OUTOTEC METALS OY	METSO METALS OY
2014/00444	METSO OUTOTEC METALS OY	METSO METALS OY
2014/00475	METSO OUTOTEC METALS OY	METSO METALS OY
2014/0681	METSO OUTOTEC METALS OY	METSO METALS OY
2014/01226	METSO OUTOTEC METALS OY	METSO METALS OY
2014/03448	METSO OUTOTEC METALS OY	METSO METALS OY
2014/06402	METSO OUTOTEC METALS OY	METSO METALS OY
2014/06582	METSO OUTOTEC METALS OY	METSO METALS OY
2014/08376	METSO OUTOTEC METALS OY	METSO METALS OY
2014/08400	METSO OUTOTEC METALS OY	METSO METALS OY
2014/09431	METSO OUTOTEC METALS OY	METSO METALS OY
2015/00635	METSO OUTOTEC METALS OY	METSO METALS OY
2015/03137	METSO OUTOTEC METALS OY	METSO METALS OY
2015/03796	METSO OUTOTEC METALS OY	METSO METALS OY
2015/06881	METSO OUTOTEC METALS OY	METSO METALS OY
2015/07801	METSO OUTOTEC METALS OY	METSO METALS OY
2016/00205	METSO OUTOTEC METALS OY	METSO METALS OY
2016/00208	METSO OUTOTEC METALS OY	METSO METALS OY
2016/01093	METSO OUTOTEC METALS OY	METSO METALS OY
2016/01094	METSO OUTOTEC METALS OY	METSO METALS OY
2016/01095	METSO OUTOTEC METALS OY	METSO METALS OY
2016/02244	METSO OUTOTEC METALS OY	METSO METALS OY
2016/04162	METSO OUTOTEC METALS OY	METSO METALS OY
2016/04226	METSO OUTOTEC METALS OY	METSO METALS OY
2016/04264	METSO OUTOTEC METALS OY	METSO METALS OY
2016/04376	METSO OUTOTEC METALS OY	METSO METALS OY
2017/03564	METSO OUTOTEC METALS OY	METSO METALS OY
2017/05741	METSO OUTOTEC METALS OY	METSO METALS OY
2018/01877	METSO OUTOTEC METALS OY	METSO METALS OY
2018/02129	METSO OUTOTEC METALS OY	METSO METALS OY
2018/03599	METSO OUTOTEC METALS OY	METSO METALS OY
2019/00453	METSO OUTOTEC METALS OY	METSO METALS OY
2019/02908	METSO OUTOTEC METALS OY	METSO METALS OY
2019/04237	METSO OUTOTEC METALS OY	METSO METALS OY
2019/05163	METSO OUTOTEC METALS OY	METSO METALS OY
2019/06009	METSO OUTOTEC METALS OY	METSO METALS OY
2019/06113	METSO OUTOTEC METALS OY	METSO METALS OY
2021/05709	METSO OUTOTEC METALS OY	METSO METALS OY
2023/07100	EMERGENCY THERAPEUTICS	EMERGENCY THERAPEUTICS GMBH

Application Number	In the name of	New name
	AG	
2023/07145	HERAEUS DEUTSCHLAND GMBH & CO. KG.	HERAEUS PRECIOUS METALS GMBH & CO. KG.
2010/06770	BIONTECH AG	BIONTECH SE
2021/00820	CYTRX CORPORATION	LADRX CORPORATION
2018/06932	METSO MINERALS OY	METSO OUTOTEC FINLAND OY
2018/06932	METSO OUTOTEC FINLAND OY	METSO FINLAND OY
2015/02896	INPHENA APS	AFYX THERAPEUTICS A/S
2020/02951	CYTRX CORPORATION	LADRX CORPORATION
2020/02949	CYTRX CORPORATION	LADRX CORPORATION
2017/08234	CYTRX CORPORATION	LADRX CORPORATION
2014/02340	NELES FINLAND OY	VALMET FLOW CONTROL OY
2016/06699	NELES FINLAND OY	VALMET FLOW CONTROL OY
2022/11237	KRAFTANLAGEN MUNCHEN GMBH	KRAFTANLAGEN ENERGIES & SERVICES GMBH
2022/11237	KRAFTANLAGEN ENERGIES & SERVICES GMBH	KRAFTANLAGEN ENERGIES & SERVICES AG
2022/11237	KRAFTANLAGEN ENERGIES & SERVICES AG	KRAFTANLAGEN ENERGIES & SERVICES SE

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

Application Number	Licensor	Licensee
2023/11699	CRAG (CENTRE DE RECERCA EN AGRIGENOMICA)	PLANET BIOTECH, S.L.
2023/01267	ERASMUS UNIVERSITY CENTER ROTTERDAM	ACTIVE BIOTECH AB

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Not Open	Date
2023/01237	WITHDRAWN	12/04/2024
2023/04917	WITHDRAWN	21/05/2024
2023/06313	WITHDRAWN	17/05/2024
2023/11583	WITHDRAWN	12/02/2024
2022/00344	WITHDRAWN	02/02/2024
2023/04950	WITHDRAWN	29/04/2024
2023/04949	WITHDRAWN	29/04/2024
2023/06540	WITHDRAWN	30/05/2024
2023/06194	WITHDRAWN	11/06/2024

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

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 **EUROPEA DE CONSTUCCIONES METALICAS, S.A.** Whose address for service is **TABERER ATTORNEYS INC, WYNBERG, CAPE TOWN** has applied to the registrar for the restoration of Patent No **2013/02969** entitled **DIRECT CONNECTION BETWEEN A TUBE AND A FLAT ELEMENT**, dated **20/10/2011**, which lapsed on **20/10/2023** owing to the non-payment of the prescribed renewal fee.

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

THE PATENTS ACT, No. 57 OF 1978

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

No records available

APPLICATION FOR CORRECTION IN TERMS OF SECTION 50.

Applicant: 1. JIANGSU HENGRUI MEDICINE CO., LTD. 2. SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD. 1. NO. 7 KUNLUNSHAN ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, LIANYUNGANG, JIANGSU, 222047, 2. NO. 279 WENJING ROAD MINHANG DISTRICT, SHANGHAI, 200245, PEOPLE'S REPUBLIC OF CHINA. Request permission to correct or to amend any patent, application for a patent or document lodged in pursuance of such application or in the register of Patent no: **2021/02544** a filing date of **16 APRIL 2021** Entitled: **LIGAND-DRUG CONJUGATE OF EXATECAN ANALOGUE, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF.**

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

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: DOLBY LABORATORIES LICENSING CORPORATION OF **1275 MARKET STREET, SAN FRANCISCO, CALIFORNIA, 94103, UNITED STATES OF AMERICA**. Request permission to amend the specification of letters patent no: **2022/06622** of 15 **JUNE 2022** for **IMAGE RESHAPING IN VIDEO CODING USING RATE DISTORTION OPTIMIZATION**

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

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: VIRGINIA COMMONWEALTH UNIVERSITY OF **800 EAST LEIGH STREET, SUITE 3000, RICHMOND, VIRGINIA, 23298, UNITED STATES OF AMERICA.** Request permission to amend the specification of letters patent no: **2022/03972** of **7 April 2022** for **COMPOSITIONS AND METHODS FOR RESTORING OR INCREASING TISSUE PERFUSION**

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

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: WATTBIKE IP LIMITED Vermont House, Nottingham South & Wilford Industrial Estate Ruddington Lane, Wilford, Nottingham NG11 7HQ. Request permission to amend the specification of letters patent no: **2018/05335** of **10/08/2018** for **STATIONARY ERGOMETRIC EXERCISE DEVICE.**

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

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: ANDREWS, Roland 17 Sanrika, 23 Tyne Avenue, Redhill 4001 Durban. Request permission to amend the specification of letters patent patent no: **2018/08555** of **19/12/2018** for **A CONTAINER OPENING DEVICE, A CLOSURE ARRANGEMENT FOR A CONTAINER, AND A CONTAINER**.

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

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: SMITH & NEPHEW PLC Building 5, Croxley Park Hatters Lane Watford Hertfordshire WD18 8YE. Request permission to amend the specification of letters patent no: **2019/08504 *of* 19/12/2019** for **ANTIMICROBIAL OR WOUND CARE MATERIALS, DEVICES AND USES**.

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

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: AMABIOTICS 47 rue de Montmorency, 75003, Paris. Request permission to amend the specification of letters patent no: **2010/06126** of **27/08/2010** for **PROTEASE STABILIZED, ACYLATED INSULIN ANALOGUES**.

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

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: EKATO RÜHR- UND MISCHTECHNIK GMBH HOHE-FLUM-STRASSE 37, 79650 SCHOPFHEIM, GERMANY.
Request permission to amend the specification of letters patent no: **2018/04447**of **03/07/2028** for **AGITATOR DEVICE**.

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

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: BIND-X GMBH Am Klopferspitz 19 82152 Planegg. Request permission to amend the specification of letters patent no: **2022/12770** of **23/11/2022** for **BIOCEMENTATION MIXTURE FOR DUST CONTROL AND RELATED APPLICATIONS**.

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

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

Applicant: REGENERON PHARMACEUTICALS, INC. 777 Old Saw Mill River Road, Tarrytown New York 10591. Request permission to amend the specification of letters patent no: **2019/01558** of **13/03/2019** for **ANTI-STEAP2 ANTIBODIES, ANTIBODY-DRUG CONJUGATES, AND BISPECIFIC ANTIGEN BINDING MOLECULES THAT BIND STEAP2 AND CD3, AND USES THEREOF.**

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

Any notice of opposition (on patent Form 19) must be closed at the Patent Office within 2 months from the date hereof.

Registrar of Patents

INSPECTION OF SPECIFICATIONS

A complete specification may, after acceptance is advertised, be inspected during office hours at the Patent Office, Pretoria, at a charge of **R4, 00.** Please note, that in terms of section 43 (3) if the acceptance of an application which claims priority in terms of section 31 (1) (c) is not published in terms of section 42 within 18 months from the earliest priority claimed from the relevant application in a convention country, it shall be opened to public inspection after the expiration of 18 months from the earliest priority so claimed.

COPIES OF DOCUMENTS

The Patent Office, Private Bag X400, Pretoria, supplies copies of all patent and trade mark documents at the following rate:

Photocopies: **R1, 00 per page**

COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF

Complete specifications in respect of the under mentioned applications for letters Patent have been accepted by the Registrar of Patents.

THE PATENTS ACT, 1978 (ACT NO. 57 OF 1978)

In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(DA)** 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: 2014/03552. 22: 2014/05/15. 43: 2024/03/27
51: A61K; A61P; C07K
71: AdrenoMed AG
72: BERGMANN, Andreas
33: EP 31: 11189447.3 32: 2011-11-16
54: ANTI-ADRENOMEDULLIN (ADM) ANTIBODY OR ANTI-ADM ANTIBODY FRAGMENT OR ANTI-ADM NON-IG SCAFFOLD FOR PREVENTION OR REDUCTION OF ORGAN DYSFUNCTION OR ORGAN FAILURE IN A PATIENT HAVING A CHRONIC OR ACUTE DISEASE OR ACUTE CONDITION
00: -
Subject matter of the present disclosure is an anti-adrenomedullin (ADM) antibody or an anti-adrenomedullin antibody fragment or an anti-ADM non-Ig scaffold for use in therapy of a chronical or acute disease or acute condition of a patient for prevention or reduction of organ dysfunction or organ failure. In a preferred embodiment subject matter of the disclosure is an anti-ADM antibody or an anti-adrenomedullin antibody fragment or anti-ADM non-Ig scaffold for use in therapy of a chronical or acute disease or acute condition of a patient for prevention or reduction of kidney dysfunction or kidney failure or liver dysfunction or liver failure.

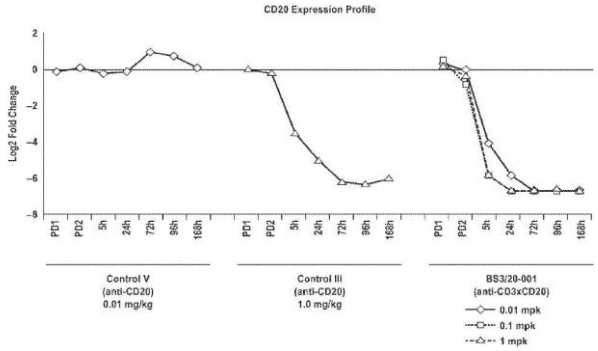
21: 2015/01097. 22: 2015/02/17. 43: 2024/05/22
51: A61K; C07K; A61P
71: REGENERON PHARMACEUTICALS, INC

72: SMITH ERIC, PAPADOPOULOS NICHOLAS J
33: US 31: 61/763 110 32: 2013-02-11
33: US 31: 61/827 098 32: 2013-05-24
33: US 31: 61/704 029 32: 2012-09-21
33: US 31: 61/753 461 32: 2013-01-17

54: ANTI-CD3 ANTIBODIES, BISPECIFIC ANTIGEN-BINDING MOLECULES THAT BIND CD3 AND CD20, AND USES THEREOF

00: -

The present invention provides antibodies that bind to CD3 and methods of using the same. According to certain embodiments, the antibodies of the invention bind human CD3 with high affinity and induce human T cell proliferation. The invention includes antibodies that bind CD3 and induce T cell-mediated killing of tumor cells. According to certain embodiments, the present invention provides bispecific antigen-binding molecules comprising a first antigen-binding domain that specifically binds human CD3, and a second antigen-binding molecule that specifically binds human CD20. In certain embodiments, the bispecific antigen-binding molecules of the present invention are capable of inhibiting the growth of B-cell tumors expressing CD20. The antibodies and bispecific antigen-binding molecules of the invention are useful for the treatment of diseases and disorders in which an upregulated or induced targeted immune response is desired and/or therapeutically beneficial. For example, the antibodies of the invention are useful for the treatment of various cancers as well as other CD20-related diseases and disorders.



21: 2015/04081. 22: 2015/06/05. 43: 2024/05/23
51: C12N
71: THE BROAD INSTITUTE, INC., MASSACHUSETTS INSTITUTE OF TECHNOLOGY, PRESIDENT AND FELLOWS OF HARVARD COLLEGE
72: ZHANG,Feng , RAN,Fei , SHALEM,Ophir
33: US 31: 61/736,527 32: 2012-12-12
33: US 31: 61/748,427 32: 2013-01-02
33: US 31: 61/758,468 32: 2013-01-30
33: US 31: 61/769,046 32: 2013-02-25
33: US 31: 61/802,174 32: 2013-03-15
33: US 31: 61/791,409 32: 2013-03-15
33: US 31: 61/806,375 32: 2013-03-28
33: US 31: 61/814,263 32: 2013-04-20
33: US 31: 61/819,803 32: 2013-05-06
33: US 31: 61/828,130 32: 2013-05-28
33: US 31: 61/832,931 32: 2013-06-17
33: US 31: 61/836,101 32: 2013-06-17

54: ENGINEERING AND OPTIMIZATION OF IMPROVED SYSTEMS, METHODS AND ENZYME COMPOSITIONS FOR SEQUENCE MANIPULATION

00: -

The invention provides for engineering and optimization of systems, methods, and compositions for manipulation of sequences and/or activities of target sequences. Provided are compositions and methods related to components of a CRISPR complex particularly comprising a Cas ortholog enzyme.

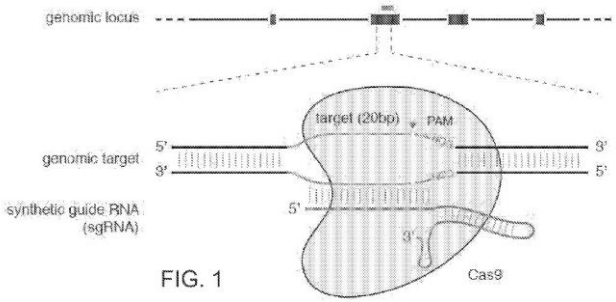


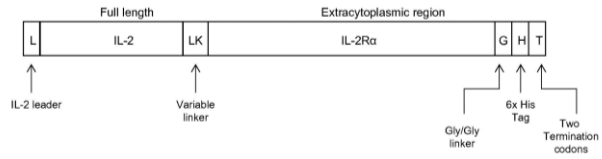
FIG. 1

21: 2017/00245. 22: 2017/01/11. 43: 2024/04/30
51: A61K; C07K
71: University of Miami
72: MALEK, Thomas
33: US 31: 62/033,726 32: 2014-08-06

54: INTERLEUKIN-2/INTERLEUKIN-2 RECEPTOR ALPHA FUSION PROTEINS AND METHODS OF USE

00: -

Various methods and compositions are provided which can be employed to modulate the immune system. Compositions include a fusion protein comprising: (a) a first polypeptide comprising Interleukin-2 (IL-2) or a functional variant or fragment thereof; and (b) a second polypeptide, fused in frame to the first polypeptide, wherein the second polypeptide comprises an extracellular domain of Interleukin-2 Receptor alpha (IL-2Rα) or a functional variant or fragment thereof, and wherein the fusion protein has IL-2 activity. Various methods are provided for modulating the immune response in a subject comprising administering to a subject in need thereof a therapeutically effective amount of the IL-2/IL-2Rα fusion protein disclosed herein.



21: 2017/00408. 22: 2017/01/18. 43: 2024/06/12
51: B61B; B61L; B65G
71: RAIL¿VEYOR TECHNOLOGIES GLOBAL INC.
72: FISK, James, Everrett, FANTIN, Patrick, Walter, Joseph, MCCALL, William, John, NIEMEYER, David, Wilhelm, REAY, Curtis, Ron, ZANETTI, Eric, Benjamin, Alexander, HELLBERG, Esko, Johannes, CAPERS, Joseph, Gerald
33: US 31: 62/021,905 32: 2014-07-08

54: CONTROL SYSTEM FOR AN IMPROVED RAIL TRANSPORT SYSTEM FOR CONVEYING BULK MATERIALS

00: -

Systems and methods for sensing a train position of a train with no internal drive operating in an automated train system are provided. According to one embodiment, a train system comprises a track extending in a travel direction, a plurality of cars riding on the track and connected to form a train, a position sensing unit, and a programmable logic controller (PLC) in signal communication with the position sensing unit and configured to determine a train position based on inputs therefrom.

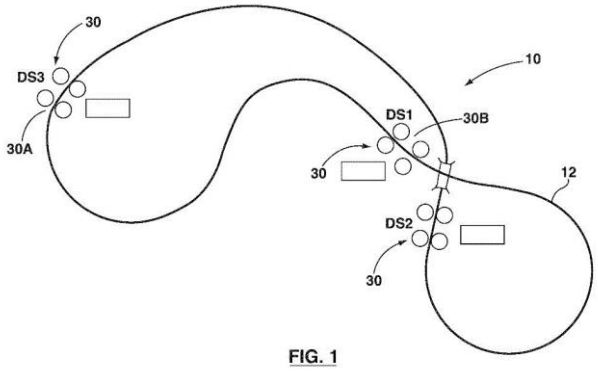


FIG. 1

21: 2017/00457. 22: 2017/01/19. 43: 2024/05/23
51: G03G
71: CANON KABUSHIKI KAISHA
72: KASHIIDE, Yosuke, KIMURA, Takashi
33: JP 31: 2014-158119 32: 2014-08-01
33: JP 31: 2014-158120 32: 2014-08-01
33: JP 31: 2015-032063 32: 2015-02-20

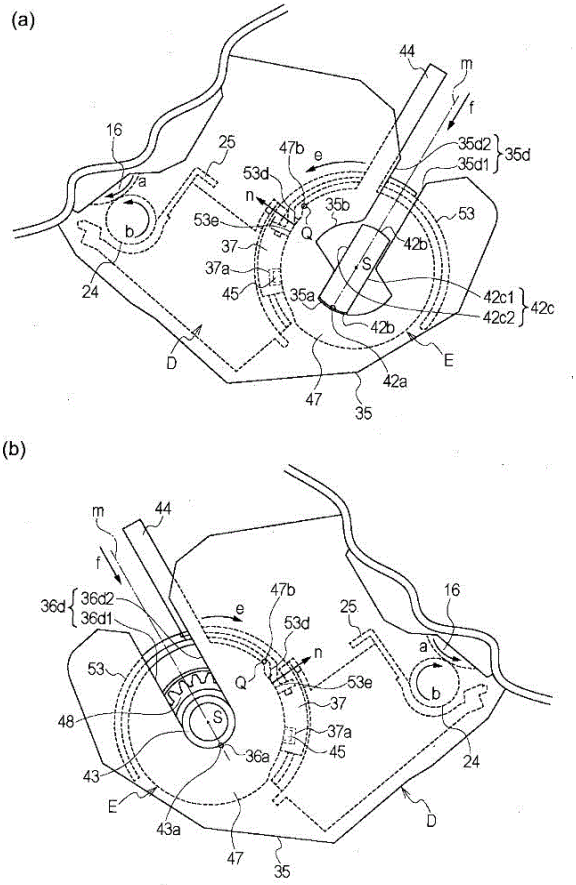
54: TONER CARTRIDGE, TONER SUPPLY MECHANISM, AND SHUTTER

00: -

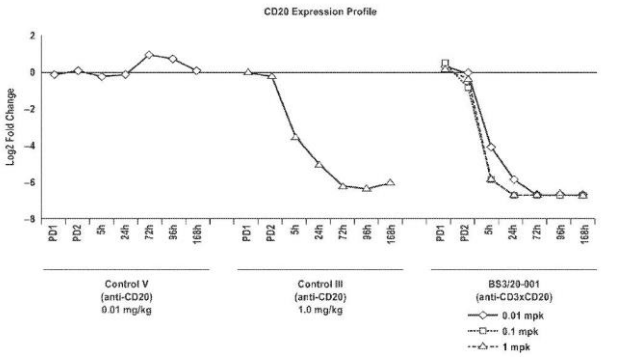
This toner cartridge is provided with: a container provided with an accommodation section for accommodating a toner, and a discharge port for discharging the toner from the accommodation section to a receiving device; and an opening/closing member provided with a closing part for closing the discharge port, and an engagement part capable of moving relative to the closing part, said opening/closing member being capable of rotating relative to the container, between an open position (a) in which the closing part is made to open the discharge port, and a closed position (b) in which the closing part is made to close the discharge port. The engagement part is capable of moving relative to the closing part, between: an engagement position (c) for engaging with the receiving device so that a force for moving the opening/closing member from the open position to the closed position is received when the toner cartridge is removed from the receiving device; and a withdrawn position (d) withdrawn from the engagement position. Movement of the engagement part from the withdrawn position to the engagement position accompanies rotation of the

opening/closing member from the closed position to the open position.

図1



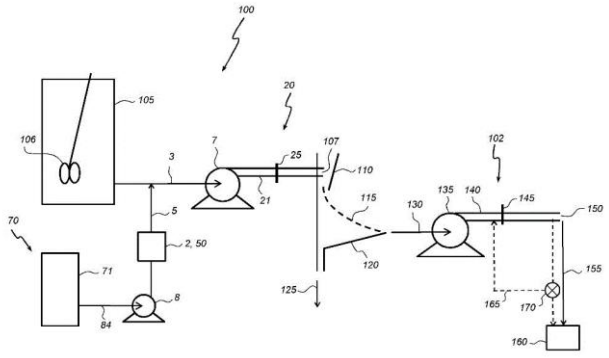
21: 2017/05757. 22: 2017/08/23. 43: 2024/05/22
51: A61K; C07K; A61P
71: REGENERON PHARMACEUTICALS, INC.
72: PAPADOPOULOS, NICHOLAS, J., SMITH, ERIC
33: US 31: 61/704,029 32: 2012-09-21
33: US 31: 61/753,461 32: 2013-01-17
33: US 31: 61/763,110 32: 2013-02-11
33: US 31: 61/827,098 32: 2013-05-24
54: ANTI-CD3 ANTIBODIES, BISPECIFIC ANTIGEN-BINDING MOLECULES THAT BIND CD3 AND CD20, AND USES THEREOF
00: -
The present invention provides antibodies that bind to CD3 and methods of using the same. According to certain embodiments, the antibodies of the invention bind human CD3 with high affinity and induce human T cell proliferation. The invention includes antibodies that bind CD3 and induce T cell-mediated killing of tumor cells. According to certain embodiments, the present invention provides bispecific antigen-binding molecules comprising a first antigen-binding domain that specifically binds human CD3, and a second antigen-binding molecule that specifically binds human CD20. In certain embodiments, the bispecific antigen-binding molecules of the present invention are capable of inhibiting the growth of B-cell tumors expressing CD20. The antibodies and bispecific antigen-binding molecules of the invention are useful for the treatment of diseases and disorders in which an upregulated or induced targeted immune response is desired and/or therapeutically beneficial. For example, the antibodies of the invention are useful for the treatment of various cancers as well as other CD20-related diseases and disorders.



21: 2017/07524. 22: 2017/11/07. 43: 2024/03/26
51: C07D
71: Janssen Pharmaceuticals, Inc., Katholieke Universiteit Leuven
72: RABOISSON, Pierre Jean-Marie Bernard, BARDIOT, Dorothée Alice Marie-Eve, MARCHAND, Arnaud Didier M., KESTELEYN, Bart Rudolf Romanie, BONFANTI, Jean-François, JONCKERS, Tim Hugo Maria
33: EP(BE) 31: 15166900.9 32: 2015-05-08
54: MONO- OR DI-SUBSTITUTED INDOLE DERIVATIVES AS DENGUE VIRAL REPLICATION INHIBITORS
00: -
The present invention relates to mono- or di-substituted indole compounds, methods to prevent or treat dengue viral infections by using said compounds and also relates to said compounds for use as a medicine, more preferably for use as a medicine to treat or prevent dengue viral infections. The present invention furthermore relates to pharmaceutical compositions or combination preparations of the compounds, to the compositions or preparations for use as a medicine, more

preferably for the prevention or treatment of dengue viral infections. The invention also relates to processes for preparation of the compounds.

21: 2017/08753. 22: 2017/12/21. 43: 2024/06/05
51: B01D; B01F; C10L; C22B
71: THE UNIVERSITY OF NEWCASTLE
72: GALVIN, Kevin, Patrick, VAN NETTEN, Kim
33: AU 31: 2015901887 32: 2015-05-22
33: AU 31: 2015904102 32: 2015-10-08
54: METHOD AND APPARATUS FOR AGGLOMERATING HYDROPHOBIC PARTICLES
00: -
The present invention provides a method and apparatus for agglomerating hydrophobic particles from a feed slurry. The method comprises adding a binder to a feed stream and conveying the feed stream and binder to an agglomerating device. The binder comprises 50% or more by volume of a non-hydrophobic substance. A high shear is applied to the feed stream and the binder in the agglomerating device to cause the hydrophobic particles to collide and bind to the binder, thereby agglomerating the hydrophobic particles. The agglomerated hydrophobic particles and the binder are removed from the feed stream. A method and apparatus for dewatering an agglomerated product is also provided, the agglomerated product comprising agglomerated hydrophobic particles held together by a binder comprising 50% or more by volume of a non-hydrophobic substance.



21: 2018/01050. 22: 2018/02/15. 43: 2024/04/17
51: B01L; G01N
71: CEPHEID
72: DOUG DORITY, TIEN PHAN, DAVID FROMM, RICK CASLER, DUSTIN DICKENS, STUART MORITA, MATTHEW PICCINI
33: US 31: 62/196,845 32: 2015-07-24
54: MOLECULAR DIAGNOSTIC ASSAY SYSTEM
00: -
Improved sub-assemblies and methods of control for use in a diagnostic assay system adapted to receive an assay cartridge are provided herein. Such sub-assemblies include: a brushless DC motor, a door opening/closing mechanism and cartridge loading mechanism, a syringe and valve drive mechanism assembly, a sonication horn, a thermal control device and optical detection/excitation device. Such systems can further include a communications unit configured to wirelessly communicate with a mobile device of a user so as to receive a user input relating to functionality of the system with respect to an assay cartridge received therein and relaying a diagnostic result relating to the assay cartridge to the mobile device.

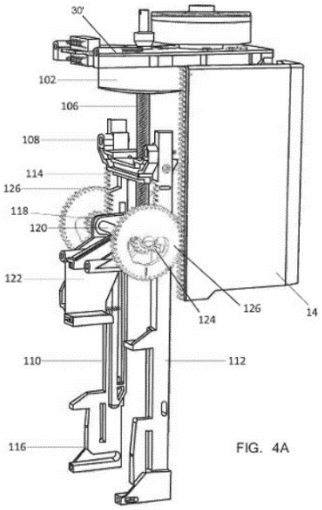
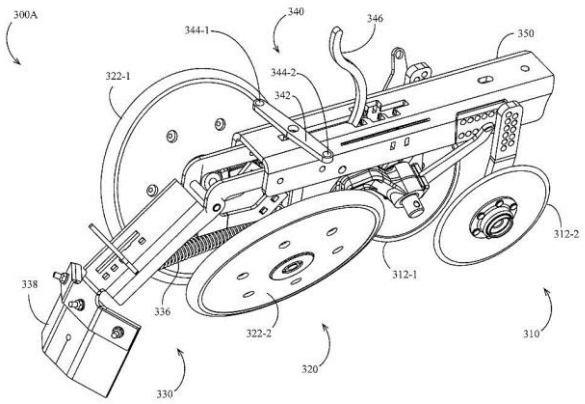


FIG. 4A

21: 2018/03325. 22: 2018/05/18. 43: 2024/05/16
51: A01B; A01C
71: PRECISION PLANTING LLC
72: HODEL, Jeremy, URBANIAK, Douglas, KATER, Timothy
33: US 31: 62/257,265 32: 2015-11-19
54: PLANTING TRENCH CLOSING SYSTEMS, METHODS, AND APPARATUS
00: -
Systems, methods and apparatus are provided for closing a planting trench. Embodiments include a disc assembly for loosening soil adjacent to the planting trench. In some embodiments a closing wheel assembly pivots relative to a subframe of the row unit.



21: 2018/03854. 22: 2018/06/08. 43: 2024/05/23
51: C12Q
71: UNIVERSITY OF CAPE TOWN, SEATTLE CHILDREN'S HOSPITAL D/B/A SEATLE CHILDREN'S RESEARCH
72: PENN-NICHOLSON, Adam Garth, SCRIBA, Thomas Jens, ADEREM, Alan Arnold, ZAK, Daniel Edward, THOMPSON, Ethan Greene, HANEKOM, Willem Albert
33: GB 31: 1519872.4 32: 2015-11-11
54: BIOMARKERS FOR PROSPECTIVE DETERMINATION OF RISK FOR DEVELOPMENT OF ACTIVE TUBERCULOSIS
00: -
This invention relates to a prognostic method for determining the risk of an asymptomatic human subject with latent tuberculosis(TB) infection or apparent latent TB infection and/or after suspected exposure to TB progressing to active tuberculosis diseases comprising the steps of quantifying and computationally analysing relative abundances of a collection of pairs of gene products ("TB biomakers") derived from a sample obtained from the subject. The invention further relates to a collection of TB biomakers that generates a transcriptomic signature of risk for prediction of the likelihood of an asymptomatic human subject with latent TB infection and/or after suspected exposure to TB progressing to active tuberculosis disease. Furthermore, a kit comprising gene-specific primers or oligonucleotide probes for the detection of pairs of TB biomakers that generates a prognostic signature of risk for use with the method of the invention is described. In addition, the invention relates to a method of preventive treatment or prophylaxis for TB infection comprising the use of the prognostic method and/or the kit of the invention to select an appropriate or experimental treatment regime or intervention for the human subject and/or to monitor the response of the human subject to the TB prophylaxis.

21: 2018/06569. 22: 2018/10/03. 43: 2024/04/16
51: B22C; B61G
71: McConway & Torley, LLC
72: FLOAT, Joseph T., GAGLIARDINO, Joseph L., KRAMER, Scott J., BRICKER, Gerald J., NEUMAN, David S.
33: US 31: 62/321,824 32: 2016-04-13
54: SYSTEM AND METHOD FOR MANUFACTURING RAILCAR COUPLER HEADCORES
00: -
A method for manufacturing railcar coupler headcores includes providing a first corebox having internal walls defining at least in part perimeter boundaries of at least one rotor core cavity. The method further comprises at least partially filling the at least one rotor core cavity with a first sand resin to form at least one rotor core. The method also includes providing a second corebox having internal walls defining at least in part perimeter boundaries of at least one headcore cavity. The at least one rotor core is positioned within the second corebox. The method also comprises at least partially filling the at least one headcore cavity with a second sand resin to form at least one headcore.

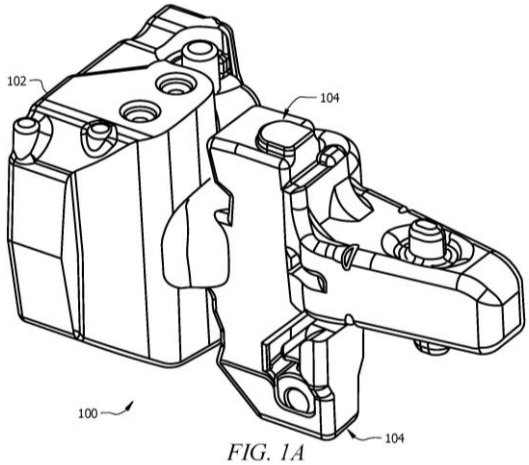
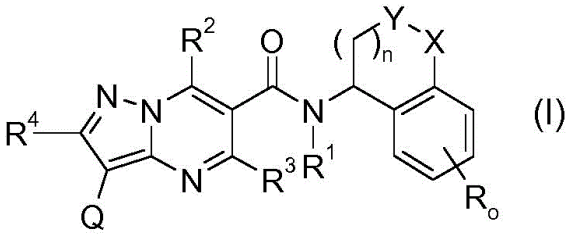


FIG. 1A

21: 2018/07656. 22: 2018/11/14. 43: 2024/03/27
51: A61K; A61P; C07D
71: Elanco Animal Health GmbH

72: KÖHLER, Adeline, WELZ, Claudia, BÖRNGEN, Kirsten, KULKE, Daniel, ILG, Thomas, KÖBBERLING, Johannes, HÜBSCH, Walter, SCHWARZ, Hans-Georg, GÖRGENS, Ulrich, EBBINGHAUS-KINTSCHER, Ulrich, HINK, Maike, NENNSTIEL, Dirk, RAMING, Klaus, ADAMCZEWSKI, Martin, BÖHM, Claudia, GRIEBENOW, Nils, ZHUANG, Wei
33: EP(DE) 31: 16165572.5 32: 2016-04-15
54: PYRAZOLOPYRIMIDINE DERIVATIVES
00: -
The present invention covers Pyrazolopyrimidine compounds of general formula (I), in which n, o, X, Y, R, Q, R^1, R^2, R^3 and R^4 are as defined herein, methods of preparing said compounds, intermediate compounds useful for preparing said compounds, pharmaceutical compositions and combinations comprising said compounds and the use of said compounds for manufacturing pharmaceutical compositions for the treatment, control and/or prevention of diseases, in particular of helminth infections, as a sole agent or in combination with other active ingredients.



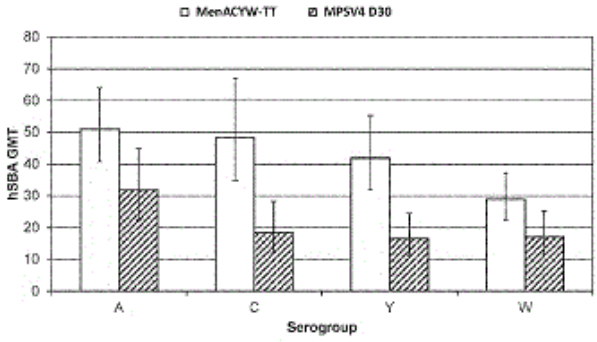
(I)

21: 2019/00857. 22: 2019/02/11. 43: 2024/04/08
51: A61K; C07K
71: GENENTECH, INC.
72: JANE L GROGAN, ROBERT J JOHNSTON, YAN WU, WEI-CHING LIANG, PATRICK LUPARDUS, MAHESH YADAV, DHAYA SESHASAYEE, MEREDITH HAZEN
33: US 31: 62/233,230 32: 2015-09-25
33: US 31: 62/369,299 32: 2016-08-01
54: ANTI-TIGIT ANTIBODIES AND METHODS OF USE
00: -
The invention provides anti-TIGIT (T-cell immunoreceptor with Ig and ITIM domains) antibodies and methods of using the same.

21: 2019/01035. 22: 2019/02/18. 43: 2024/04/08
51: G01N
71: REGENERON PHARMACEUTICALS, INC.
72: MICHAEL MARLOW, MICHAEL SENNETT, MICHAEL SCHNEIDER
33: US 31: 62/376,788 32: 2016-08-18
54: ASSAY FOR DETERMINING POTENTIAL TO SELF-ASSOCIATION OF A PROTEIN USING CONCENTRATION-DEPENDENT SELF-INTERACTION NANOPARTICLE SPECTROSCOPY
00: -
Methods for producing high concentration protein formulations having high stability are provided. Assays for selecting proteins and formulation conditions that have high self-repulsive attributes are used as an early step in the manufacturing process. Specifically, a protein concentration-dependent self-interaction nanoparticle spectroscopy method is employed as a protein colloidal interaction assay.

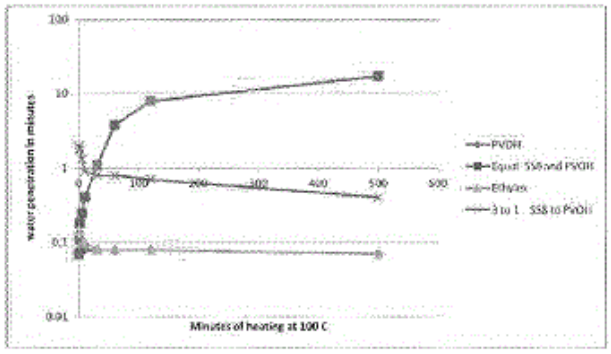
21: 2019/01379. 22: 2019/03/05. 43: 2024/04/23
51: C07K
71: UNIVERSITÄT STUTTGART
72: ROLAND KONTERMANN, LISA SCHMITT, OLIVER SEIFERT, MONILOLA OLAYIOYE, MICHAEL HUST, STEFAN DÜBEL, JONAS ZANTOW, HUTT, MEIKE
33: EP 31: 16188871.4 32: 2016-09-15
54: ANTIGEN BINDING PROTEIN AGAINST HER3
00: -
The present invention provides an antigen-binding protein that specifically binds to a conformational epitope formed by domain III & IV of human epidermal growth factor receptor 3 (HER3) and antigen-binding proteins which compete therewith for binding, as well as fusion protein or conjugate comprising these. The present invention also provides nucleic acid molecule comprising a sequence encoding said antigen binding proteins, vectors comprising the nucleic acid, and cells and pharmaceuticals comprising the antigen binding protein, the fusion protein, the nucleic acid, or the vector. The present invention also provides the antigen binding protein, the fusion protein or conjugate, the nucleic acid, the vector, the cell, or the pharmaceutical for use as a medicament. The present invention further provides a method of inhibiting tumor growth or treating cancer, comprising administering a therapeutically effective amount of the antigen binding protein, the fusion protein or conjugate, the nucleic acid, the vector, the cell, or the pharmaceutical.

21: 2019/01402. 22: 2019/03/06. 43: 2024/04/26
51: A61K
71: SANOFI PASTEUR, INC.
72: RICHARD DAVID KENSINGER, STEVEN L HAUSER
33: US 31: 62/383,279 32: 2016-09-02
33: US 31: 62/468,695 32: 2017-03-08
33: US 31: 62/505,525 32: 2017-05-12
54: NEISSERIA MENINGITIDIS VACCINE
00: -
Provided herein are compounds, compositions, formulations, kits, uses, and methods for vaccinating a subject against Neisseria meningitidis.



21: 2019/01536. 22: 2019/03/12. 43: 2024/04/30
51: A61K
71: Elysium Health, Inc.
72: MARCOTULLI, Eric Alexander, ALMINANA, Daniel Antonio
33: US 31: 62/378,053 32: 2016-08-22
54: NICOTINAMIDE RIBOSIDE AND PTEROSTILBENE COMPOSITIONS AND METHODS FOR TREATMENT OF NEURODEGENERATIVE DISORDERS
00: -
Compositions containing a combination of nicotinamide riboside and pterostilbene for treating neurodegenerative disorders, and methods of treating neurodegenerative disorders using these compositions and their equivalents are described. The neurodegenerative disorders that can be treated using these compositions or methods can include Parkinson's disease, Huntington's disease, Alzheimer's disease, and the like. In an embodiment, the compositions containing a combination of nicotinamide riboside and pterostilbene can be prepared as oral formulations. In some embodiments, a dietary supplement comprises nicotinamide riboside and/or pterostilbene or equivalents.

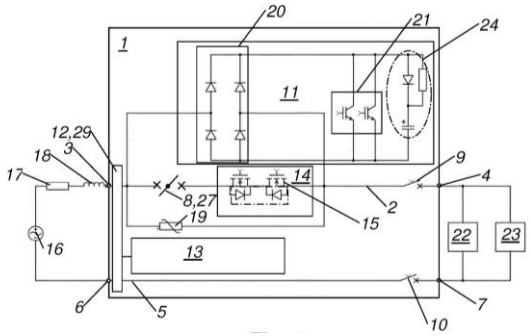
21: 2019/01564. 22: 2019/03/13. 43: 2024/04/23
51: C07H; D21H
71: HS MANUFACTURING GROUP LLC
72: JONATHAN SPENDER, MICHAEL ALBERT BILODEAU, DARYL AUBREY BASHAM, NIRMAL SINGH BASI
33: US 31: 62/382,690 32: 2016-09-01
33: US 31: 62/432,133 32: 2016-12-09
33: US 31: 62/468,229 32: 2017-03-07
54: METHODS FOR BIOBASED DERIVATIZATION OF CELLULOSIC SURFACES
00: -
The present invention describes tunable methods of treating cellulosic materials with a composition that provides increased hydrophobicity and/or lipophobicity to such materials without sacrificing the biodegradability thereof. The methods as disclosed provide for binding of saccharide fatty acid esters on cellulosic materials, including that the disclosure provides products made by such methods. The materials thus treated display higher hydrophobicity, lipophobicity, barrier function, and mechanical properties, and may be used in any application where such features are desired.



21: 2019/01787. 22: 2019/03/22. 43: 2024/04/26
51: C01B; C04B
71: HALDOR TOPSØE A/S, P-D REFRACTORIES GMBH
72: JOHANNES RUBEN LARSEN, FRED BRUNK, THOMAS SANDAHL CHRISTENSEN, SØREN GYDE THOMSEN
33: DK 31: PA 2016 00605 32: 2016-10-07
54: COMBUSTION CHAMBER HOT FACE REFRACTORY LINING
00: -

The present application relates to a refractory lining in a combustion chamber operating in a reducing atmosphere, said lining comprising at least one or more Zirconia (Zr)-based refractory lining members comprising one or more Zr-based parts, wherein the Zr-based parts comprises at least 90 wt. %, preferably at least 95 wt. %, of monoclinic ZrO_2 and/or partially stabilized ZrO_2 and/or fully stabilized ZrO_2, wherein the total content of tetragonal and cubic ZrO_2 amounts to at least 20 wt. %, preferably more than 35 wt. % as well as Zr based refractory lining members and methods for manufacturing said Zr based refractory lining members.

21: 2019/03010. 22: 2019/05/14. 43: 2024/04/22
51: H01H; H02H
71: Eaton Intelligent Power Limited
72: ASKAN, Kenan
33: DE 31: 10 2016 121 835.9 32: 2016-11-15
54: LOW-VOLTAGE CIRCUIT BREAKER DEVICE
00: -
Disclosed is a low-voltage circuit breaker device (1) comprising an external conductor section (2) and a neutral conductor section (5), wherein a mechanical bypass switch (8) is arranged in the external conductor section (2), a first semiconductor circuit arrangement (11) of the low-voltage circuit breaker device (1) is connected in parallel to the bypass switch (8), and a current measuring arrangement (12) is arranged in the external conductor section (2) and is connected to an electronic control unit (13) of the low-voltage circuit breaker device (1), wherein the electronic control unit (13) is designed to actuate the bypass switch (8) and the first semiconductor circuit arrangement (11) when a given overcurrent, in particular a short-circuit current, is detected by the current measuring arrangement (12). According to the invention, the bypass switch (8) is in the form of a multiple-breaking switch (27), and in the external conductor section (2), a second semiconductor circuit arrangement (14) is connected in series to the bypass switch (8) and in parallel to the first semiconductor circuit arrangement (11).



21: 2019/03982. 22: 2019/06/19. 43: 2024/06/04
51: F41H
71: SAATI S.P.A.
72: MERLETTI, Franco, DELLA VEDOVA, Thomas, CANONICO, Paolo
33: IT 31: 102017000009754 32: 2017-01-30
54: STRUCTURE FOR BALLISTIC PROTECTION OF VEHICLES IN GENERAL AND METHOD FOR THE PRODUCTION THEREOF
00: -
Structure for the ballistic protection of vehicles in general, characterized in that it comprises at least a first textile element and at least an additional element formed of a thermoplastic or thermosetting matrix. The structure forms a ballistic system for light armor plating obtained from at least one textile element and one or more thermoplastic or thermosetting base elements. The first textile element includes textile fibers. The second element can include thermoplastic matrices, thermosetting matrices, matrices based on rubber, elastomeric polymers and thermoplastic films of various kinds, the purpose of which consists in providing mechanical properties such that the use of the element can be extended to the field of armor plating while maintaining a high degree of flexibility. The aforesaid elements together contribute to define an efficient ballistic solution while maintaining a relatively low areal density.

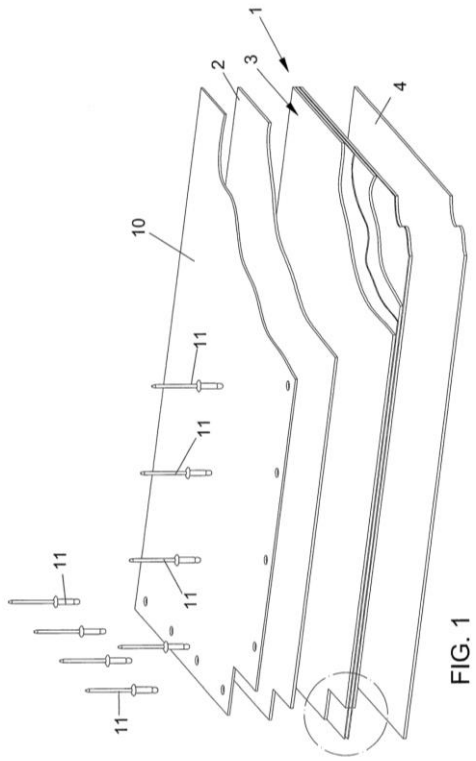


FIG. 1

21: 2019/05673. 22: 2019/08/28. 43: 2024/04/11
51: C12N
71: Novozymes A/S
72: ANDERSEN, Carsten, DAMAGER, Iben, GHADIYARAM, Chakshusmathi, SAINATHAN, Rajendra Kulothungan, IYER, Padma Venkatachalam
33: IN 31: 201741003686 32: 2017-02-01
54: ALPHA-AMYLASE VARIANTS
00: -
The present invention relates to variants of a parent alpha-amylase having an improved wash performance when compared to the parent alpha-amylase. The present invention also relates to polynucleotides encoding the variants, nucleic acid constructs, vectors, and host cells comprising the polynucleotides, and method of producing the variants of the present invention.

21: 2019/06822. 22: 2019/10/16. 43: 2024/04/23
51: A01N; A61K
71: Ikena Oncology, Inc.
72: CASTRO, Alfredo C., EVANS, Catherine Anne
33: US 31: 62/488,476 32: 2017-04-21
54: INDOLE AHR INHIBITORS AND USES THEREOF
00: -
The present invention provides compounds useful as inhibitors of AHR, compositions thereof, and methods of using the same.

21: 2019/08355. 22: 2019/12/13. 43: 2024/05/08
51: A61K; A61P
71: ZEALAND PHARMA A/S
72: SONNE, Kim, MOURITZEN, Ulrik, GLERUP, Peter, JEPPESEN, Palle Bekker
33: GB 31: 1709643.9 32: 2017-06-16
33: GB 31: 1714203.5 32: 2017-09-05
33: GB 31: 1800873.0 32: 2018-01-19
54: DOSAGE REGIMES FOR THE ADMINISTRATION OF GLUCAGON-LIKE-PEPTIDE-2 (GLP-2) ANALOGUES
00: -
Dosage regimes for the administration of glucagon-like-peptide-2 (GLP-2) analogues and their medical use are disclosed, for example in the treatment and/or prevention of stomach and bowel-related disorders and for ameliorating side effects of chemotherapy and radiation therapy. Dosage regimes for the administration of glucagon-like-peptide-2 (GLP- 2) analogues for inducing longitudinal growth of the intesines are described, for example for the treatment of patients with short bowel syndrome (SBS). Medical uses for adjusting the volume of parenteral support (PS) provided to subjects receiving treatment with GLP-2 analogues in response to the treatment and to algorithms for determining PS volume changes are also described.

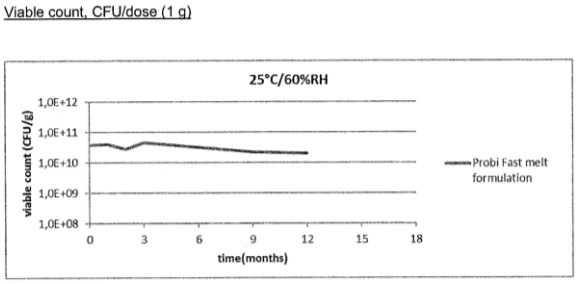
21: 2019/08550. 22: 2019/12/20. 43: 2024/04/19
51: A61K
71: Eli Lilly and Company
72: ALLGEIER, Matthew Carl, ZHANG, Tony Yantao
33: US 31: 62/533,332 32: 2017-07-17
54: PHARMACEUTICAL COMPOSITIONS
00: -
The present invention relates to solid oral fixed dose compositions of metformin, atorvastatin, and valsartan, or their pharmaceutically acceptable salts, processes for the preparation thereof, and the use of the composition to treat certain diseases.

21: 2020/00036. 22: 2020/01/02. 43: 2024/05/08
51: A61K
71: PROBI AB
72: BJÖRKLUND, Malin, RUDOLFSSON, Jenny
33: GB 31: 1708932.7 32: 2017-06-05

54: MICROBIAL COMPOSITIONS

00: -

The invention provides a microbial composition in the form of a powder for oral administration comprising or consisting of: (i) micro-organism, preferably probiotic bacteria; (ii) sugar alcohol, such as Erythritol and Xylitol; (iii) moisture absorbent fibre, such as inulin; (iv) a flow agent, such a silicon dioxide optionally; (v) a flavorant; and/or optionally (vi) a bulking agent, such as maltodextrin. The compositions display good storage stability, fast-melt and sensory properties. They are preferably packaged in a single dose in a sealed stick pack aluminium container.

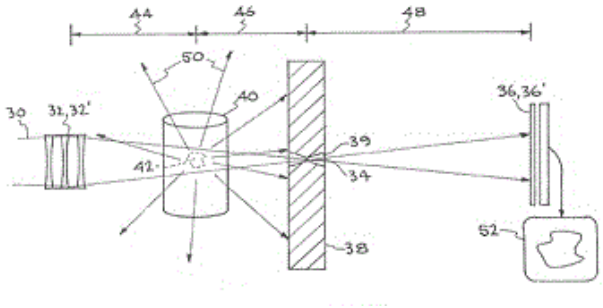


21: 2020/00316. 22: 2020/01/16. 43: 2024/04/26
51: A61B
71: LAWRENCE LIVERMORE NATIONAL SECURITY, LLC
72: CHRISTOPHER P.J BARTY
33: US 31: 62/539,452 32: 2017-07-31

54: CONVERGENT X-RAY IMAGING DEVICE AND METHOD

00: -

Techniques are provided for the production of high-contrast, x-ray and/or gamma-ray radiographic images. The images have minimal contributions from object-dependent background radiation. The invention utilizes the low divergence, quasi-monoenergetic, x-ray or gamma-ray output from a laser-Compton source in combination with x-ray optical technologies to produce a converging x-ray or gamma-ray beam with which to produce a high-contrast, shadowgraph of a specific object. The object to be imaged is placed within the path of the converging beam between the x-ray optical assembly and the focus of the x-ray beam produced by that assembly. The beam is then passed through an optically thick pinhole located at the focus of the beam. Downstream of the pinhole, the inverted shadowgraph of the object is then recorded by an appropriate 2D detector array.

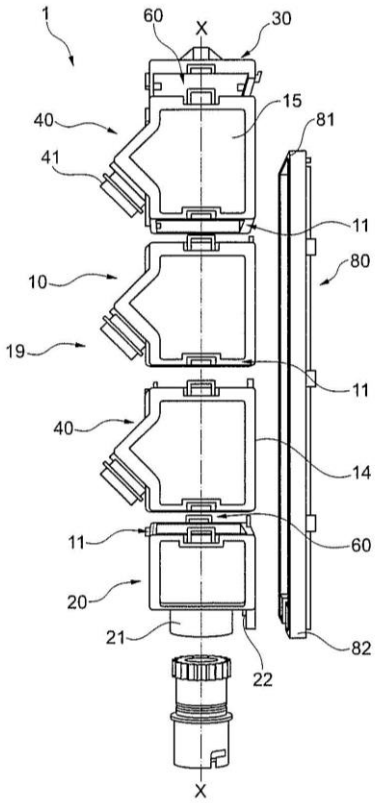


21: 2020/00520. 22: 2020/01/27. 43: 2024/05/30
51: G02B
71: PRYSMIAN S.P.A.
72: PADDICK, Nathan, RUSSO, Luigi
33: IT 31: 102019000002551 32: 2019-02-21

54: A MODULAR DISTRIBUTION BOX FOR CABLES

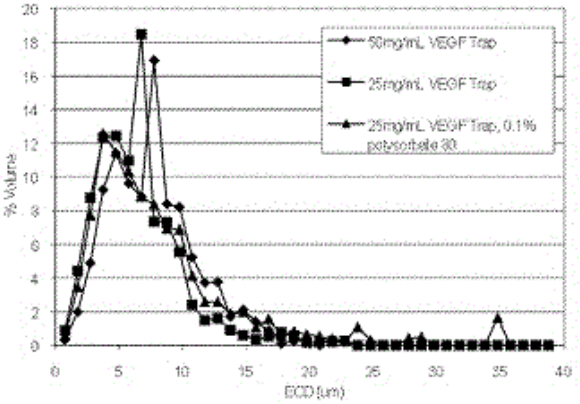
00: -

A distribution box (1) for cables (2), the distribution box comprising a plurality of modules (10) arranged in a stacked relationship along a longitudinal direction (X-X), the plurality of modules (10) comprising: a base module (20) having an inlet port (21) for receiving one or more cables (2), a cap module (30), one or more distribution modules (40) arranged between the base module (20) and the cap module (30), each distribution module (40) having one or more outlet ports (41). Attachment members (60) are formed on each module (10) for attaching longitudinally the stacked modules (10), a retaining element (80) is provided and configured to act on the base module (20) and the cap module (30) to mutually urge the stacked modules (10) along the longitudinal direction (X-X).



21: 2020/00701. 22: 2020/02/03. 43: 2024/04/08
51: A61K; C07K; A61P
71: BIOCELLS (BEIJING) BIOTECH CO., LTD.
72: HUAMIN HAN, YUJIA TIAN, HONGJUN JIA
54: PHARMACEUTICALLY ACCEPTABLE SALTS OF POLYPEPTIDES AND USE THEREOF
00: -
There is provided in the present application a pharmaceutically acceptable salt of a polypeptide and a pharmaceutical composition comprising the same, wherein the polypeptide comprises the amino acid sequence YEKLLDTEI or a functional variant thereof.

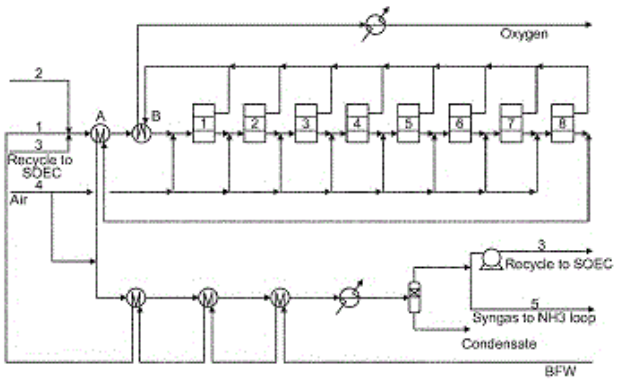
21: 2020/00742. 22: 2020/02/05. 43: 2024/04/08
51: A61K; A61P
71: REGENERON PHARMACEUTICALS, INC.
72: HUNTER CHEN, SCOTT WALSH
33: US 31: 61/561,525 32: 2011-11-18
54: POLYMER PROTEIN MICROPARTICLES
00: -
A method of manufacturing an extended release pharmaceutical composition comprising therapeutic protein particles coated with a biodegradable polymer is disclosed.



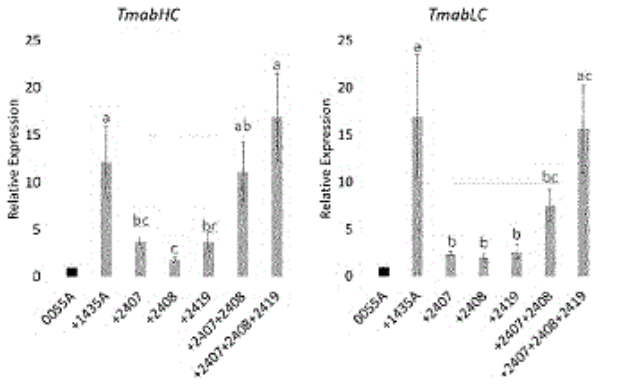
21: 2020/00935. 22: 2020/02/13. 43: 2024/04/08
51: C12Q
71: THE JOHNS HOPKINS UNIVERSITY, BOARD OF REGENTD, THE UNIVERSITY OF TEXAS SYSTEM, THE RESEARCH FOUNDATION FOR THE STATE UNIVERSITY OF NEW YORK
72: BERT VOGELSTEIN, KENNETH W KINZLER, JOSHUA COHEN, NICKOLAS PAPADOPOULOS, ANNE MARIE LENNON, CRISTIAN TOMASETTI, YUXUAN WANG, GEORGES JABBOURE NETTO, RACHEL KARCHIN, SAMIR HANASH, SIMEON SPRINGER, ARTHUR GROLLMAN, KATHLEEN DICKMAN, DOUVILLE, CHRISTOPHER
33: US 31: 62/542,167 32: 2017-08-07
33: US 31: 62/542,144 32: 2017-08-07
33: US 31: 62/542,164 32: 2017-08-07
33: US 31: 62/594,245 32: 2017-12-04
33: US 31: 62/618,232 32: 2018-01-17
33: US 31: 62/628,759 32: 2018-02-09
33: US 31: 62/629,870 32: 2018-02-13
54: METHODS AND MATERIALS FOR ASSESSING AND TREATING CANCER
00: -
Provided herein are methods and materials for detecting and/or treating subject (e.g. a human) having cancer. In some embodiments, methods and materials for identifying a subject as having cancer (e.g., a localized cancer) are provided in which the presence of member(s) of two or more classes of biomarkers are detected. In some embodiments, methods and materials for identifying a subject as having cancer (e.g. a localized cancer) are provided in which the presence of member(s) of at least one class of biomarkers and the presence of aneuploidy are detected. In some embodiments, methods described herein provide increased sensitivity and/or specificity in the detection of cancer in a subject (e.g. a human).

21: 2020/00961. 22: 2020/02/14. 43: 2024/04/09
51: A61K; C07K; G01N; A61P
71: APTEVO RESEARCH AND DEVELOPMENT LLC, ALLIGATOR BIOSCIENCE AB
72: DAVID BIENVENUE, GABRIELA HERNANDEZ-HOYOS, LYNDA MISHER, DANIELLE MITCHELL, SARA FRITZELL, LAURA VARAS, PETER ELLMARK, ANNA SALL, CHRISTINA FUREBRING, LAURA VON SCHANTZ
33: US 31: 62/535,107 32: 2017-07-20
33: US 31: 62/575,820 32: 2017-10-23
33: US 31: 62/648,072 32: 2018-03-26
54: ANTIGEN BINDING PROTEINS BINDING TO 5T4 AND 4-1BB AND RELATED COMPOSITIONS AND METHODS
00: -
The present disclosure relates to protein molecules that specifically bind to 5T4 and/or 4-1BB. The molecules may have at least one humanized 5T4-binding or 4-1BB-binding domain. Such molecules are useful for the treatment of cancer. The protein molecule binding to 5T4 or 4-1BB may have a second binding domain that binds to another target. The molecules may bind both 5T4-expressing cells and a cell-surface molecule expressed by an effector cell to enhance effector cell activation, proliferation, survival and/or effector-cell mediated cytotoxicity. The disclosure also provides pharmaceutical compositions comprising the 5T4-binding or 4-1BB-binding polypeptide or protein molecules, nucleic acid molecules encoding these polypeptides and methods of making and using these molecules.

21: 2020/01001. 22: 2020/02/17. 43: 2024/04/08
51: C25B
71: HALDOR TOPSØE A/S
72: JOHN BØGILD HANSEN
33: DK 31: PA 2017 00568 32: 2017-10-11
54: A METHOD FOR GENERATING SYNTHESIS GAS FOR AMMONIA PRODUCTION
00: -
In a method for generating ammonia synthesis gas by electrolysis, comprising feeding a mixture of steam and compressed air into the first of a series of electrolysis units and passing the outlet from one electrolysis unit to the inlet of the next electrolysis unit together with air, the electrolysis units are run in endothermal mode and the nitrogen part of the synthesis gas is provided by burning the hydrogen produced by steam electrolysis by air in or between the electrolysis units. The electrolysis units are preferably solid oxide electrolysis cell (SOEC) stacks.



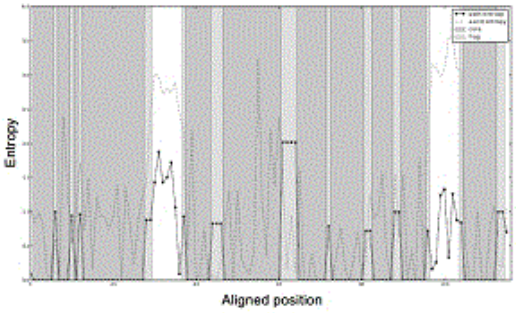
21: 2020/01019. 22: 2020/02/18. 43: 2024/04/08
51: A01H; C12N; C12P
71: PLANTFORM CORPORATION
72: KIVA FERRARO, MICHAEL MARIT, MICHAEL D MCLEAN
33: US 31: 62/540,696 32: 2017-08-03
54: TRANSIENT SILENCING OF ARGONAUTE1 AND ARGONAUTE4 TO INCREASE RECOMBINANT PROTEIN EXPRESSION IN PLANTS
00: -
A plant or plant cell with reduced endogenous AGO1 and AGO4 expression compared to a wild-type plant or plant cell is provided. In one embodiment, the plant or plant cell further comprises a nucleic acid sequence encoding a recombinant protein and the plant or plant cell has increased expression of the recombinant protein compared to a wild-type plant or plant cell comprising the nucleic acid sequence. Methods of reducing aglycosylation of recombinant protein produced in plants are also provided.



21: 2020/01064. 22: 2020/02/19. 43: 2024/04/08
51: A23L; A61K; A61M; C12N
71: ALCRESTA THERAPEUTICS, INC.
72: ERIC FIRST, DAVID WIDOM, ALBERT ARCHIE STONE, WILLEM ROBERT KLASS SCHOEVAART, MICHEL CHRISTIAN ALEXANDER VAN VLIET
33: US 31: 62/555,876 32: 2017-09-08
33: US 31: 16/123,629 32: 2018-09-06
54: DEVICES AND METHODS FOR PREPARING AND ADMINISTERING A NUTRITIONAL FORMULA
00: -
Exemplary embodiments of the disclosure may be drawn to a device having one or more chambers. The one or more chambers may contain immobilized lipase and a phytosterol processing excipient. The device may also include an inlet fluidly connected to one of the one or more chambers, wherein the inlet is configured to receive nutritional formula into one of the one or more chambers. The device may further include an outlet through which nutritional formula is configured to flow after passing through the one or more chambers.

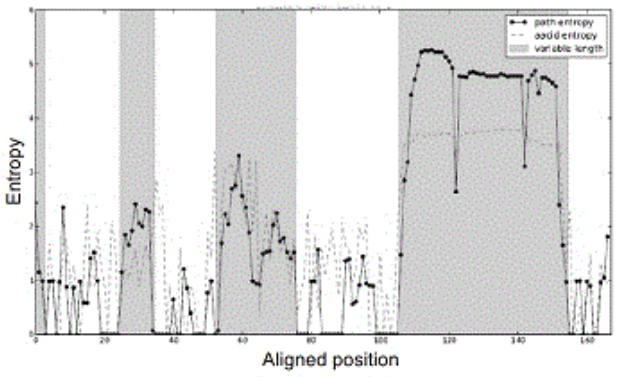
21: 2020/01078. 22: 2020/02/20. 43: 2024/04/09
51: A23G; A23L; C08B
71: HEALTHTECH BIO ACTIVES, S.L.U.
72: D'HOORE, Tom, Nelly, A, BORREGO RÍOS, Francisco, CRESPO MONTERO, Francisco, Javier
33: EP 31: 17382503.5 32: 2017-07-27
54: SWEETENING AND TASTE-MASKING COMPOSITIONS, PRODUCTS AND USES THEREOF
00: -
The present invention relates to a sweetening composition comprising neohesperidin dihydrochalcone (NHDC) and gamma-cyclodextrin, to the use of the sweetening composition for sweetening ingestible products, namely, food products and pharmaceuticals, and to an ingestible product comprising the sweetening composition. Furthermore, the present invention also relates to the use of a composition comprising neohesperidin dihydrochalcone and a cyclodextrin selected from beta-cyclodextrin and gamma-cyclodextrin as taste-masking agent, to a process for masking unpleasant tastes in ingestible products, namely in food products and pharmaceuticals, and to ingestible products which comprise unpleasantly tasting substances and the taste-masking composition.

21: 2020/01112. 22: 2020/02/21. 43: 2024/04/08
51: C07K; C40B
71: ADAGENE INC.
72: PETER PEIZHI LUO, YAN LI, FANGYONG DU
54: DYNAMIC HUMAN ANTIBODY LIGHT CHAIN LIBRARIES
00: -
Provided herein are libraries containing polynucleotides, where one of the polynucleotides encodes an antibody light chain with specific hypervariable regions HVR-L1, HVR-L2, and HVR-L3. Further provided herein are libraries containing polynucleotides encoding a plurality of unique antibodies, wherein each antibody comprises a heavy chain variable region and a light chain variable region. Also provided are antibodies, polypeptide libraries, vector libraries, cells, non-human animals, antibody light chains, methods of making an antibody library, kits, and methods of generating a bispecific antibody related thereto.



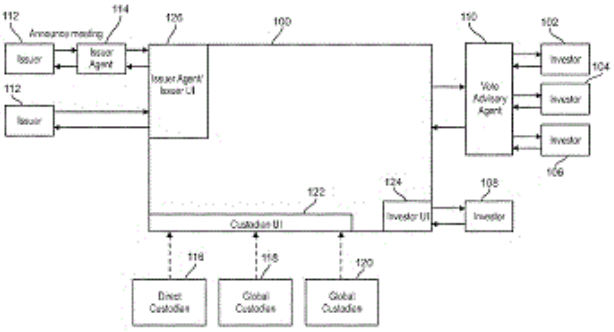
21: 2020/01114. 22: 2020/02/21. 43: 2024/04/08
51: C40B
71: ADAGENE INC.
72: PETER PEIZHI LUO, YAN LI, FANGYONG DU
54: DYNAMIC HUMAN HEAVY CHAIN ANTIBODY LIBRARIES
00: -
Provided herein are libraries containing polynucleotides, where one of the polynucleotides encodes an antibody heavy chain with specific hypervariable regions HVR-H1 and HVR-H2. Further provided herein are libraries containing polynucleotides encoding a plurality of unique antibodies, wherein each antibody comprises a heavy chain variable region and a light chain variable region. Also provided are antibodies, polypeptide libraries, vector libraries, cells, non-

human animals, antibody heavy chains, methods of making an antibody library, kits, and methods of generating a bispecific antibody related thereto.

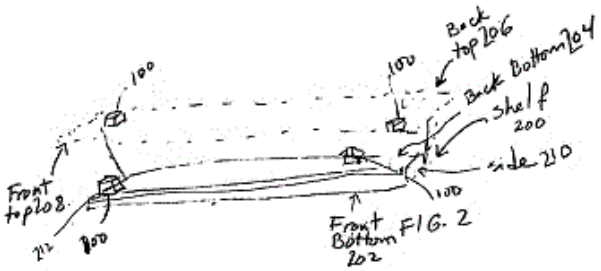


21: 2020/01167. 22: 2020/02/25. 43: 2024/05/22
51: A61K; C07K
71: REGENERON PHARMACEUTICALS, INC.
72: WEI, Yang, OKAMOTO, Haruka, GROMADA, Jesper, DAVIS, Samuel, MURPHY, Andrew, J.
33: US 31: 62/562,283 32: 2017-09-22
54: GLUCAGON-LIKE PEPTIDE 1 RECEPTOR AGONISTS AND USES THEREOF
00: -
The present invention provides modified glucagon-like peptide 1 (GLP1) polypeptides, fusion proteins comprising modified GLP1 polypeptides, and methods of use thereof. In various embodiments of the invention, the fusion proteins are GLP1 receptor agonists that comprise a modified GLP1 fused to a stabilizing domain. In some embodiments, the fusion proteins comprising modified GLP1 are useful for treating or ameliorating a symptom or indication of a disorder such as obesity and diabetes.

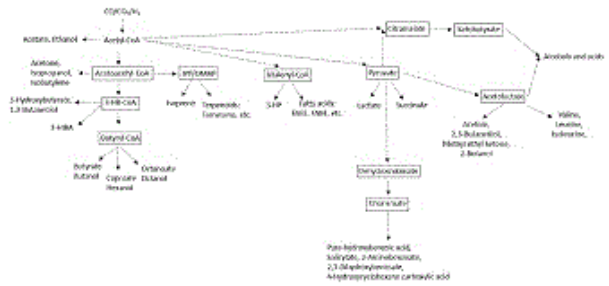
21: 2020/01169. 22: 2020/02/25. 43: 2024/04/08
51: G07C
71: PROXIMITY LIMITED
72: DEAN LITTLE, JONATHAN SMALLEY
33: US 31: 62/539,164 32: 2017-07-31
54: ELECTRONIC PROXY VOTING SYSTEMS AND METHODS
00: -
Systems and methods involve an intelligent application mapping function of a central platform that maps a direct interactive electronic communication channel between an issuer terminal and an investor terminal based at least partly on investor positions in the issuer held by respective custodial intermediaries in a chain of custodial intermediaries for the investor. Thereafter, an intelligent application notification function of the platform transmits, via the direct interactive electronic communication channel to the investor terminal, data representing a notification regarding a meeting for the issuer, and an intelligent application voting function of the platform returns, from the investor terminal via the direct interactive electronic communication channel to the processor of the issuer terminal, data representing an exercise of investor voting rights associated with the investor positions for the investor.



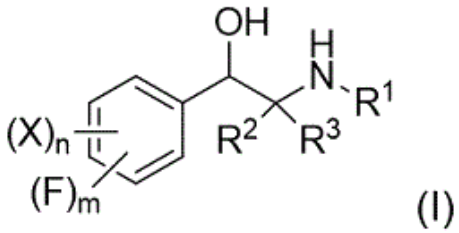
21: 2020/01211. 22: 2020/02/26. 43: 2024/04/08
51: G05D; G06Q
71: OMNI CONSUMER PRODUCTS, LLC
72: STEPHEN HOWARD
33: US 31: 62/542,252 32: 2017-08-07
54: SYSTEM, METHOD AND APPARATUS FOR A MONITORING DRONE
00: -
A monitoring drone method, apparatus and system. The monitoring drone includes an image capture device for taking one or more images, a charge module for powering the monitoring drone, and a move module for allowing the monitoring drone to move about a shelf wherein the image capturing device captures images as the monitoring drone moves about the shelf to produce a virtual stereoscopic vision.



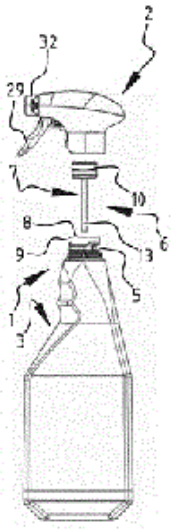
21: 2020/01324. 22: 2020/02/28. 43: 2024/04/08
51: C12N; C12P
71: LANZATECH, INC.
72: JAMES DANIELL
33: US 31: 62/565,000 32: 2017-09-28
54: GENETIC KNOCKOUTS IN WOOD-LJUNGDAHL MICROORGANISMS
00: -
The invention provides genetically engineered Wood-Ljungdahl microorganisms comprising one or more disrupted genes to strategically divert carbon flux away from nonessential or undesirable products and towards products of interest. The expression strategies of the invention enable the production of useful fuels and chemicals from gaseous substrates, such as carbon monoxide, carbon dioxide, and/or hydrogen.



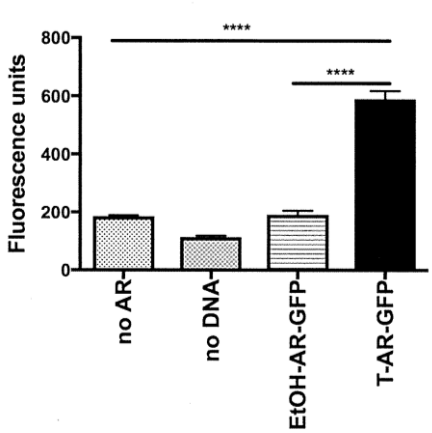
21: 2020/01513. 22: 2020/03/10. 43: 2024/04/23
51: A61K; C07C; A61P
71: ATROGI AB
72: BENJAMIN PELCMAN, TORE BENGTSSON
33: GB 31: 1714734.9 32: 2017-09-13
54: FLUOROPHENYL BETA-HYDROXYETHYLAMINES AND THEIR USE IN THE TREATMENT OF HYPERGLYCAEMIA
00: -
There is herein provided a compound of formula (I).



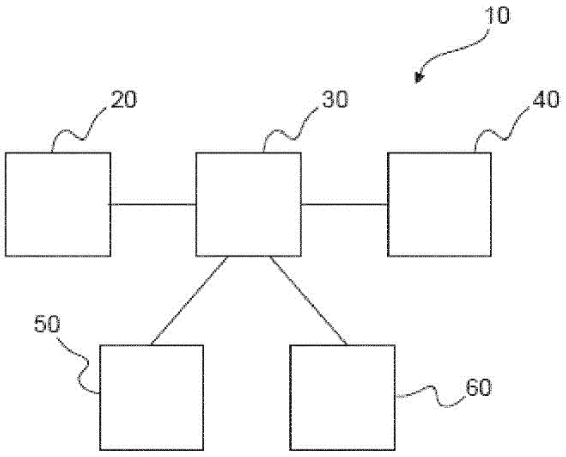
21: 2020/01791. 22: 2020/03/20. 43: 2024/04/23
51: B05B
71: DISPENSING TECHNOLOGIES B.V.
72: WILHELMUS JOHANNES JOSEPH MAAS, PAULO NERVO, DENNIS VAN MELICK
33: US 31: 62/567,706 32: 2017-10-03
54: METHOD AND SYSTEM FOR DISPENSING A LIQUID
00: -
The invention relates to a liquid dispensing system comprising a liquid dispensing device (2) and one or more containers (3) for storing the liquid to be dispensed, wherein the liquid dispensing device is releasably connected to one of the containers. The liquid dispensing system includes means for preventing refilling of the at least one container. The refill prevention means may include a restriction element (7) which may be fixed in a neck of the container and may almost completely close off a fill opening defined by the neck. The invention further relates to a method of dispensing a liquid, comprising the steps of filling at least one container with the liquid to be dispensed, providing a liquid dispensing device, connecting the liquid dispensing device to the at least one container, and actuating the liquid dispensing device, wherein after filling the container is provided with means for preventing refilling thereof.



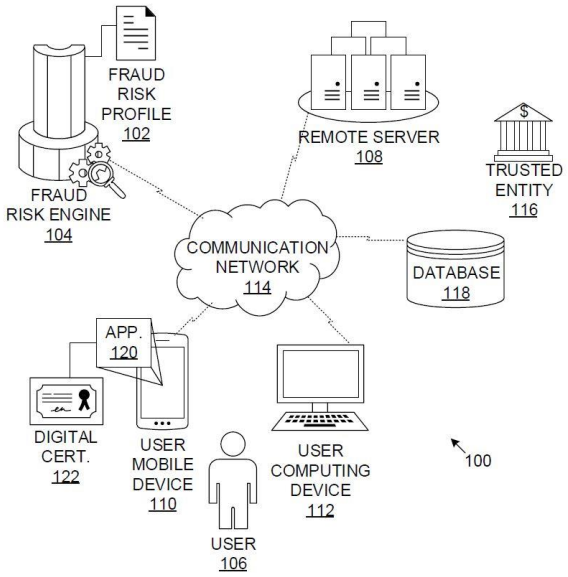
21: 2020/02668. 22: 2020/05/12. 43: 2024/05/08
51: C12Q; G01N
71: INSITUGEN LIMITED
72: HEATHER, Alison Kay, SOWERBY, Stephen John
33: US 31: 62/581,260 32: 2017-11-03
33: US 31: 62/614,680 32: 2018-01-08
33: NZ 31: 745713 32: 2018-08-27
54: TEST KITS AND ASSAYS
00: -
The present invention provides in vitro test kits, assays and methods useful for screening a test sample for the presence of a ligand which is characterized by its ability to form a complex with a steroid hormone receptor and elicit a genomic response when in a cell. Advantageously, the activity-based assays which form the basis of the test kits and methods described herein, are particularly useful in detecting the presence of a ligand of unknown structure, for example, a designer drug used by equine, canine and human athletes in sports doping. Different assay prototypes are disclosed in which activation of the hormone receptor by a ligand binding interaction may be detected, for example, though activation of a reporter molecule. In certain examples, the present invention provides test kits, assays and methods involving aptame: fluorophore reporter constructs for detection of a ligand from (e.g.) a sample taken trackside from an athlete.



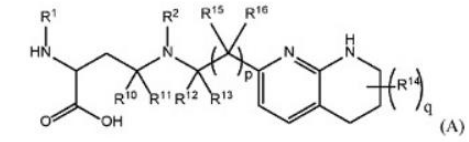
21: 2020/04407. 22: 2020/07/17. 43: 2024/05/30
51: A01M
71: Discovery Purchaser Corporation
72: DAY, Pascal, ARIANS, Thomas, FRIESSLEBEN, Reinhard
33: EP 31: 18156623.3 32: 2018-02-14
54: A SPRAY APPARATUS FOR A VEHICLE
00: -
The present invention relates to a spray apparatus (10) for a vehicle. It is described to provide (210) a processing unit with at least one image of an environment. The processing unit analyses (220) the at least one image to activate at least one chemical spray unit mounted on a vehicle. A liquid chemical is ejected (230) by the at least one chemical spray unit. Air is blown (240) by at least one air blower mounted on the vehicle into a first downward directed air flow with respect to a fore-aft axis of the vehicle that is parallel to the ground. Air moving as a consequence of movement of the vehicle is directed (250) by at least one diverter mounted on the vehicle into a second downward directed air flow with respect to the fore-aft axis of the vehicle. A chemical spray unit of the at least one chemical spray unit is positioned relative to one or more air blowers of the at least one air blower and is positioned relative to one or more air diverters of the at least one air diverter such that the ejected liquid chemical is at least partially entrained within the first downward directed air flow and is at least partially entrained within the second downward directed air flow.

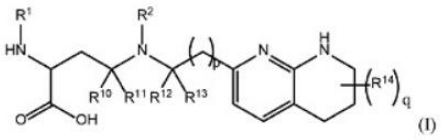


21: 2020/04593. 22: 2020/07/24. 43: 2024/05/08
51: G06Q
71: ENTERSEKT INTERNATIONAL LIMITED
72: NOLTE, Dewald de Ridder, OOSTHUIZEN, Gerhard Gysbert, BESTER, Daniël Deetlefs
33: ZA 31: 2018/00615 32: 2018-01-30
54: A SYSTEM AND METHOD FOR MAINTAINING A FRAUD RISK PROFILE IN A FRAUD RISK ENGINE
00: -
A system and method for maintaining a fraud risk profile in a fraud risk engine are described. In a method conducted at a remote server, a payload from a secure mobile application executing on a user mobile device associated with a user is received. The payload including contextual data having been obtained by the secure mobile application and a trust indicator linked to the contextual data and configured for verifying the validity of the contextual data. Validity of the contextual data is confirmed by verifying the trust indicator. If the trust indicator is verified, the contextual data is input into a fraud risk engine as truth data. The fraud risk engine maintains a fraud risk profile associated with the user. The fraud risk profile is usable by the fraud risk engine in evaluating a fraud risk associated with an activity associated with the user.

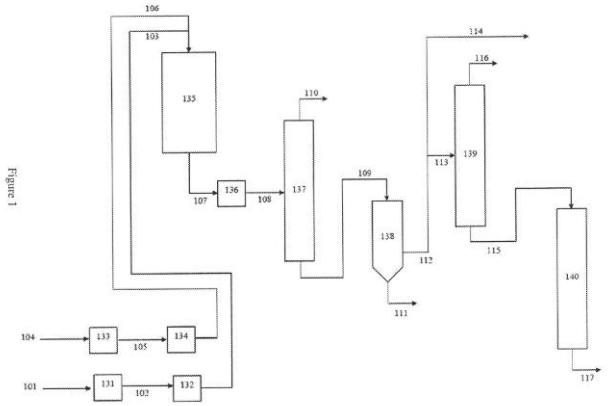


21: 2020/05437. 22: 2020/08/31. 43: 2024/04/08
51: A61K; C07D
71: PLIANT THERAPEUTICS, INC.
72: JACOB CHA, CHENGGUO DONG, TIMOTHY HOM, LAN JIANG, KATERINA LEFTHERIS, HUI LI, DAVID J MORGANS JR., MANUEL MUNOZ, MAUREEN REILLY, YAJUN ZHENG, BAILEY, Christopher, FINKELSTEIN, Darren%
33: US 31: 62/639,988 32: 2018-03-07
33: US 31: 62/690,933 32: 2018-06-27
54: AMINO ACID COMPOUNDS AND METHODS OF USE
00: -
The invention relates to compounds of formula (A) and formula (I): or a salt thereof, wherein R^1, R^2, R^{10}, R^{11}, R^{12}, R^{13}, R^{14}, R^{15}, R^{16}, q and p are as described herein. Compounds of formula (A), formula (I), and pharmaceutical compositions thereof are αvβ6 integrin inhibitors that are useful for treating fibrosis such as idiopathic pulmonary fibrosis (IPF) and nonspecific interstitial pneumonia (NSIP).





21: 2020/05558. 22: 2020/09/08. 43: 2024/04/08
51: C07C; C10G; C10L; C11C
71: Green Technology Research Co., Ltd
72: LAOHAKUNAKORN, Winai, SIRIMITRTRAKUL, Supakorn, BOONSIT, Nopporn
33: SG 31: 10201803633U 32: 2018-04-30
54: METHOD OF PROCESSING A BIO-BASED MATERIAL AND APPARATUS FOR PROCESSING THE SAME
00: -
The present invention relates to a method for processing a renewable bio-based material comprising the step of reacting the bio-based material with hydrogen in the presence of a catalyst on a support in a reactor to form a treated oil; (i) passing the treated oil through a distillation unit and an adsorption unit to form green diesel; and/or (ii) passing the treated oil through at least one distillation column to separate the treated oil into at least one component and passing the at least one component through an adsorption column; and wherein the reactor comprises a cooling function for controlling the temperature of the reactor; wherein the cooling function is at least one of an internal cooling function and an external cooling function.



21: 2020/06094. 22: 2020/10/01. 43: 2024/04/16
51: H04W
71: Huawei Technologies Co., Ltd.
72: ZHU, Haoren, ZHU, Hualin
33: CN 31: 201810318534.7 32: 2018-04-09
54: POSITIONING METHOD AND RELATED DEVICE
00: -
Embodiments of the preset application provide a location method and a related device. The method comprises: a position management function network element sends a location method and indication information to a mobility management network element, the indication information being used for indicating that the mobility management network element obtains a location parameter by using an access type for obtaining the location parameter. Use of the embodiments of the preset application can avoid that the finally determined location method is not applicable to the current access type of a terminal device.

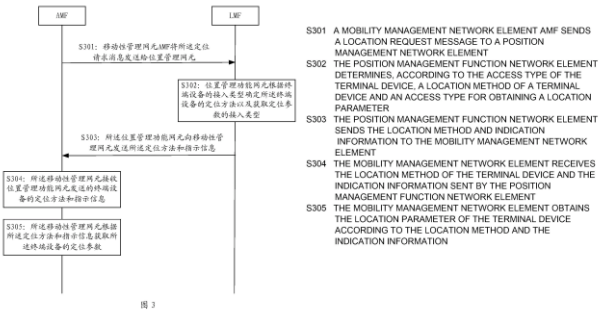
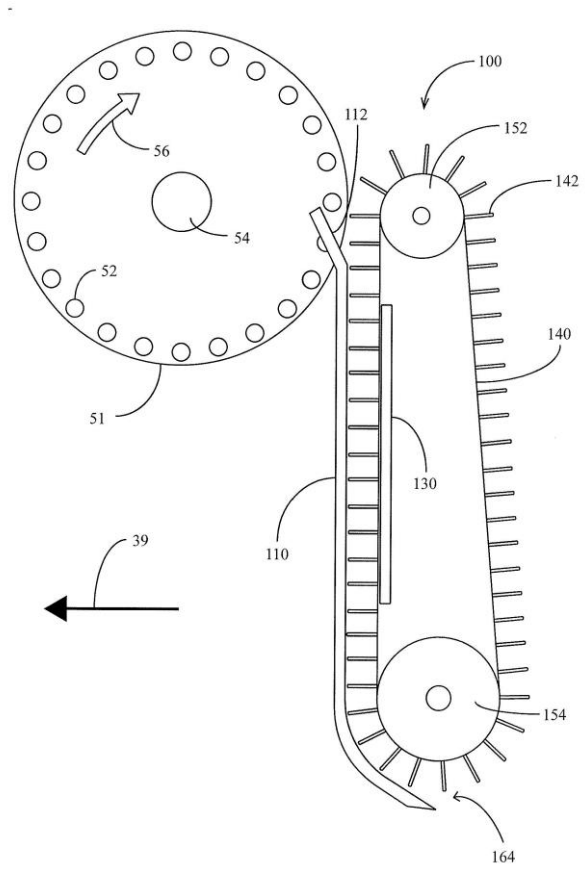
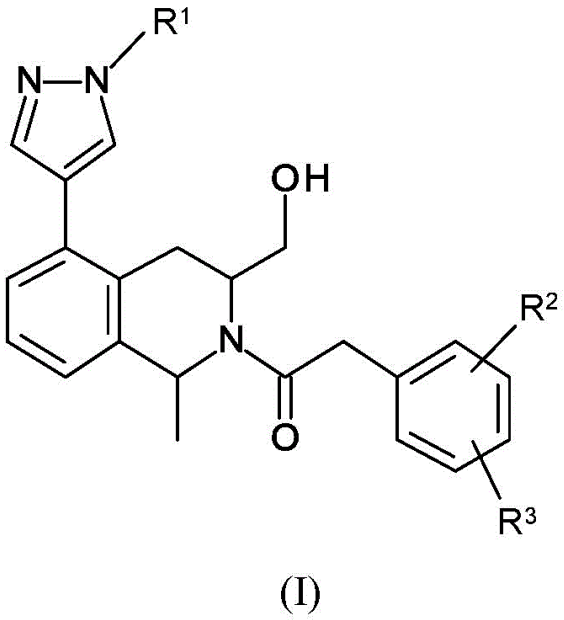


图 3

21: 2020/06368. 22: 2020/10/14. 43: 2024/05/24
51: A01C
71: PRECISION PLANTING LLC
72: SWANSON, Todd, RADTKE, Ian
33: US 31: 62/192,309 32: 2015-07-14
54: SEED DELIVERY APPARATUS, SYSTEMS, AND METHODS
00: -
A seed delivery apparatus and methods in which a seed conveyor delivers seed from a metering device to a trench in a controlled manner to maintain seed placement accuracy within the trench.



21: 2020/06439. 22: 2020/10/16. 43: 2024/04/11
51: A61P; C07D
71: Eli Lilly and Company
72: COATES, David Andrew, HAO, Junliang, HILLIARD, Darryl Wayne
33: US 31: 62/660,622 32: 2018-04-20
54: PYRAZO-TETRAHYDROISOQUINOLINE DERIVATIVES AS DOPAMINE D1 RECEPTOR POSITIVE MODULATORS
00: -
The invention provides certain (phenyl)-(pyrazol)-3,4-dihydroisoquinolin-2(1H)- yl)ethan-1-one compounds of formula I as D1 positive allosteric modulators (PAMs), and pharmaceutical compositions thereof. The invention further provides methods of using a compound of formula I, or a pharmaceutically acceptable salt thereof, to treat certain symptoms of Parkinson's disease, schizophrenia, ADHD or Alzheimer's disease.

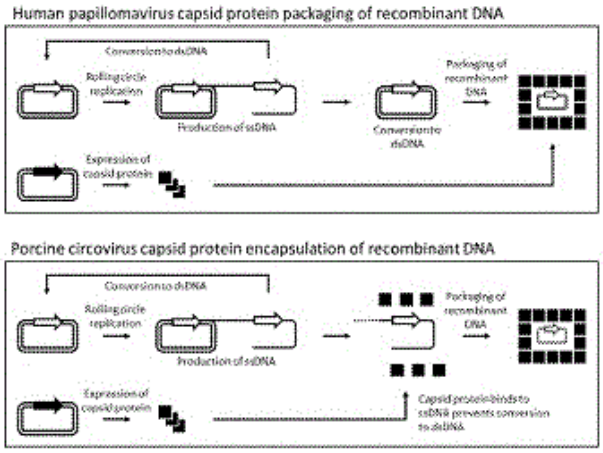


(I)

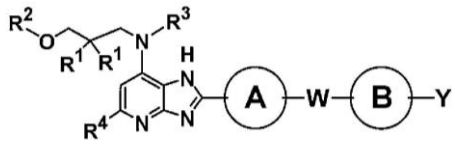
21: 2020/06535. 22: 2020/10/21. 43: 2024/05/22
51: A61K; A61P
71: MEXICHEM FLUOR S.A. DE C.V.
72: NOAKES, Timothy James, CORR, Stuart
33: GB 31: 1807053.2 32: 2018-04-30
54: PHARMACEUTICAL COMPOSITION COMPRISING SALBUTAMOL
00: -
A pharmaceutical composition is described. The composition comprises; (i) a drug component comprising salbutamol; and (ii) a propellant component comprising 1,1-difluoroethane (HFA-152a).

21: 2020/07135. 22: 2020/11/16. 43: 2024/04/26
51: A61K; C12N
71: UNIVERSITY OF CAPE TOWN
72: EDWARD PETER RYBICKI, GUY LOUIS REGNARD, INGA ISABEL HITZEROTH
54: PLANT PRODUCED PORCINE CIRCOVIRUS PSEUDOVIRION
00: -
The present invention relates to methods of producing porcine circovirus (PCV) pseudovirions in plant cells, the plant-produced PCV pseudovirions, a neutralisation assay using the plant-produced PCV pseudovirions and pharmaceutical compositions comprising the plant produced PCV pseudovirions. In particular, the method of the invention relates to introducing expression vectors, replicating vectors and nucleic acids into the plant cell and allowing for

expression of capsid proteins and replication of the replicating vector. The expressed PCV capsid polypeptides assemble, together with a single-stranded copy of the replicating vector and encapsidate it as a pseudogenome to produce a PCV pseudovirion.

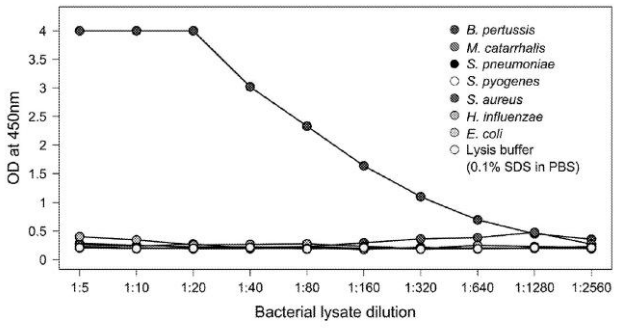


21: 2020/07164. 22: 2020/11/17. 43: 2024/04/17
51: A61K; A61P; C07D
71: Nippon Shinyaku Co., Ltd.
72: OIKAWA, Kouya, HIRAI, Sho, WAKITA, Kazuhiko, FUJIBAYASHI, Akiko
33: JP 31: 2018-089867 32: 2018-05-08
54: AZABENZIMIDAZOLE COMPOUNDS AND PHARMACEUTICAL
00: -
The purpose of the present invention is to provide compounds having an M3 PAM action. Examples of the present invention include azabenzimidazole compounds represented, for example, by formula [I], and pharmacologically acceptable salts thereof. These compounds have M3 PAM activity. In addition, because these compounds have M3 PAM activity, these compounds are useful as agents for the prevention or treatment of dysuria and/or urine storage disorder in underactive bladder, hypotonic bladder, acontractile bladder, detrusor hypoactivity, and neurogenic bladder.



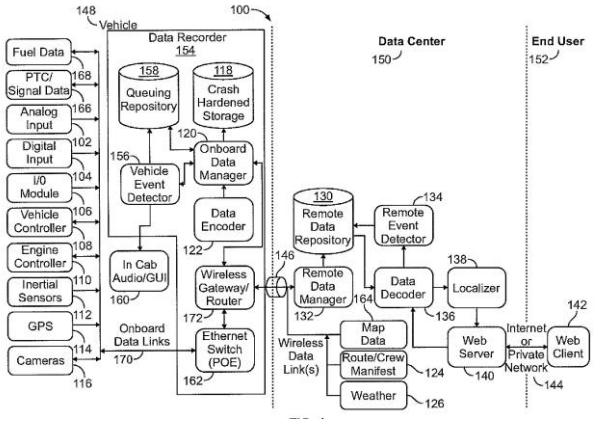
[1]

21: 2020/07379. 22: 2020/11/26. 43: 2024/05/30
51: A61K
71: DXDISCOVERY, INC
72: BURNHAM-MARUSICH, Amanda
33: US 31: 62/686,412 32: 2018-06-18
33: US 31: 62/829,802 32: 2019-04-05
54: METHODS AND COMPOSITIONS FOR PERTUSSIS DIAGNOSIS
00: -
Compositions and methods for the detection and diagnosis of Bordetella pertussis are disclosed. Provided are antibodies, or antigen binding fragment thereof, specific for tracheal colonization factor A (TcfA). Also provided are compositions comprising an anti-TcfA antibody of the instant invention and a carrier; and methods for inhibiting, treating, and/or preventing pertussis and/or a B. pertussis infection in a subject in need thereof are provided, comprising administering an anti-TcfA antibody of the instant invention to the subject.



21: 2020/07451. 22: 2020/11/30. 43: 2024/04/25
51: G06F
71: Wi-Tronix, LLC
72: JORDAN, Lawrence B., DINESH, Divya, HAMSMITH, Matthew D., ALWIN, Dan
33: US 31: 62/680,907 32: 2018-06-05
54: REAL-TIME DATA ACQUISITION AND RECORDING DATA SHARING SYSTEM
00: -
The real-time data acquisition and recording data sharing system works in conjunction with a real-time

data acquisition and recording system and a viewer which provides real-time, or near real-time, access to a wide range of data, such as event and operational data, video data, and audio data to remotely located users such as asset owners, operators and investigators. The data sharing system allows the user to share data obtained from the data acquisition and recording system to remotely located users. The user can share data with remote recipient end users that have internet access and a modern web browser in a secure, controlled, tracked, and audited way. The user, instead of sharing files, shares a URL to the data. URL based data sharing enables the user to control, track, and audit sensitive data.



21: 2020/07453. 22: 2020/11/30. 43: 2024/04/10
51: H04N
71: Orange
72: HENRY, Félix, ABDOLI, Mohsen
33: FR 31: 1855791 32: 2018-06-27
54: METHODS AND DEVICES FOR CODING AND DECODING A DATA STREAM REPRESENTING AT LEAST ONE IMAGE
00: -
The invention relates to a coding method and a method for decoding a coded data stream representing at least one image that is split into blocks. For at least one block of the image, referred to as the current block, information indicating a coding mode of the current block is decoded (E42) from the data stream. When the coding mode of the current block corresponds to a first coding mode, the current block is decoded (E43) using a first determined quantization step (E430) for de-quantifying, in the transformed domain, a prediction residual associated with the current block. When the coding mode of the current block corresponds to a second coding mode, the current block is decoded (E44) using a second determined quantization step (E441) for de-quantifying, in the spatial domain, a prediction residual associated with the current block. According to the invention, the first quantization step and the second quantization step are determined according to a same quantization parameter.

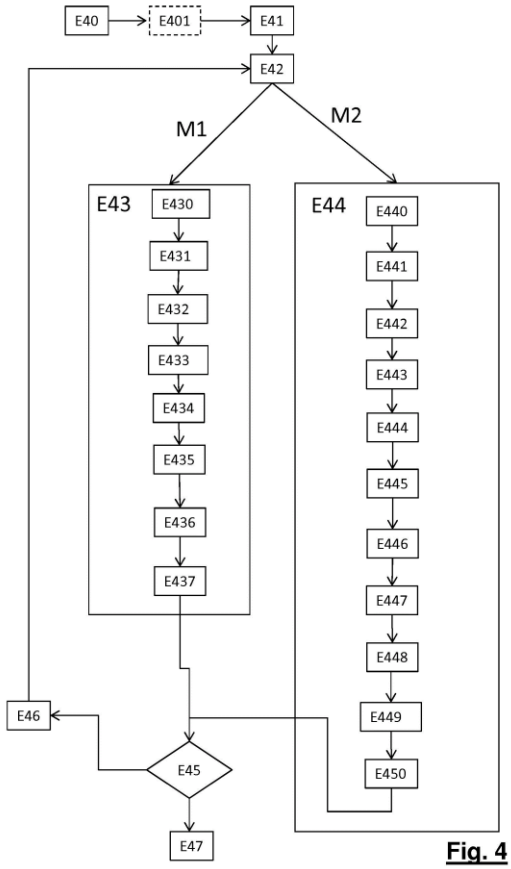
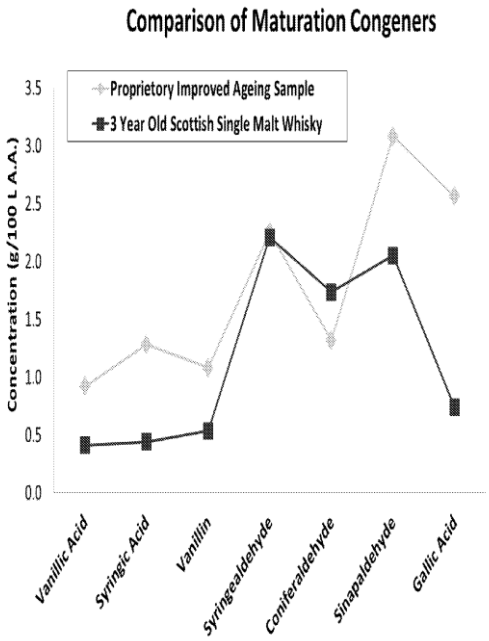


Fig. 4

21: 2020/07504. 22: 2020/12/02. 43: 2024/04/10
51: B01J; C12H
71: VERSTILL DISTILLATION SYSTEMS LTD
72: BEN ZVI, Yechiel, EDVY, Matan, MAOR, Ido
33: IL 31: 260160 32: 2018-06-19
54: MATURATION SYSTEM AND METHOD
00: -
An improved method of maturation of an unaged or partially aged distilled spirit, the method comprising: exposing the spirit to at least one catalytic material consisting of a group selected from: iron oxide nanoparticles, alumina- supported Fe(II) complexes, Pd/C, multiwalled carbon nanotubes, carbon xerogels, carbon based solid acid catalysts, SO42-

/TiO2/γ-Al2O3, an element selected from the group consisting of: columns 4-12 transition metals except for Fe, column 13 boron group, Si, and mixtures thereof; wherein throughout the exposing, the spirit is not being distilled, and the exposing is allowed until level of at least one maturation congener in the spirit attains predetermined desired congener level/s in the spirit.



21: 2020/07674. 22: 2020/12/09. 43: 2024/04/10
51: H04N
71: Orange
72: HENRY, Félix, ABDOLI, Mohsen
33: FR 31: 1855792 32: 2018-06-27

54: METHODS AND DEVICES FOR CODING AND DECODING A DATA STREAM REPRESENTING AT LEAST ONE IMAGE

00: -

The invention relates to a coding method and a method for decoding a coded data stream representing at least one image that is split into blocks. For at least one block of the image, referred to as the current block, it is determined (E42) if the current block is coded according to an intra-image coding mode or another coding mode, the intra-image coding mode being a coding mode using an intra-image prediction mode selected from among a group of intra-image prediction modes according to at least one intra-image prediction mode associated with a block adjacent to the current block. When the current block is coded according to said intra-image coding mode, an intra-image prediction mode from within said group of intra-image prediction modes is determined (E431) for the current block according to at least one intra-image prediction mode associated with a previously decoded block of the image, the current block is decoded (E43) according to said determined intra-image prediction mode that is associated (E437) with the current block. When the current block is coded according to the other coding mode, the current block is decoded (E44) according to said other coding mode, an intra-image prediction mode is determined (E449) from within said group of intra-image prediction modes and is associated (E450) with the current block.

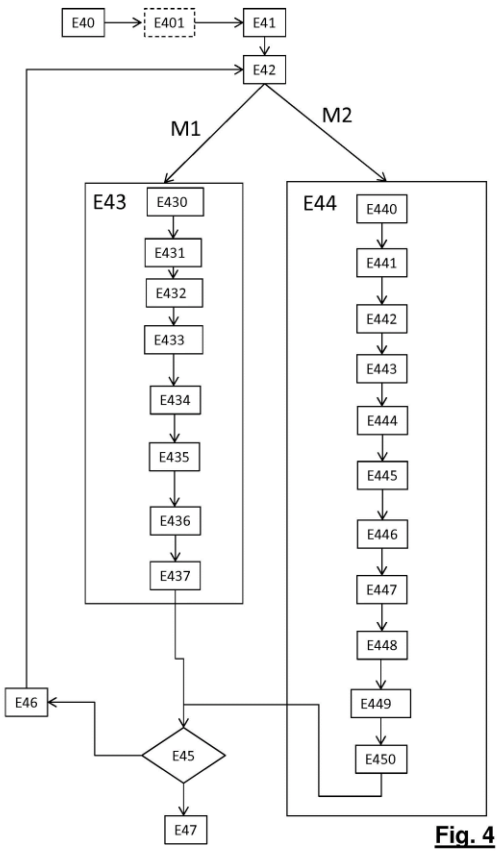


Fig. 4

21: 2020/07678. 22: 2020/12/09. 43: 2024/05/23
51: A61K; A61P
71: HUA MEDICINE (SHANGHAI) LTD.
72: CHEN, Li, LI, Yongguo, WANG, Gaosen, GAO, Huisheng
33: CN 31: 201810556685.6 32: 2018-05-31

54: PHARMACEUTICAL COMBINATION, COMPOSITION AND COMBINATION FORMULATION CONTAINING GLUCOKINASE ACTIVATOR AND K-ATP CHANNEL BLOCKER, PREPARATION METHOD THEREOF AND USE THEREOF

00: -

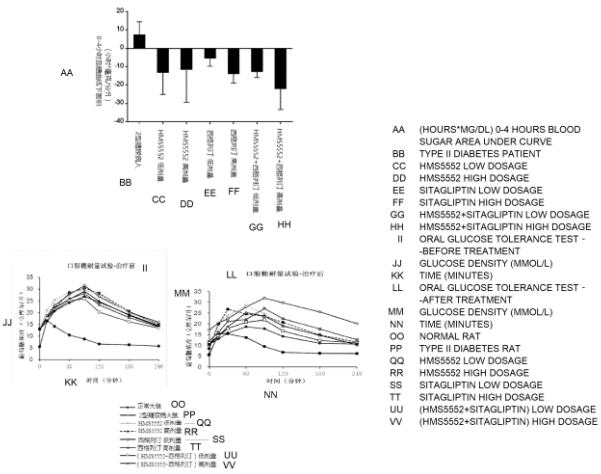
The present invention relates to a pharmaceutical combination, the pharmaceutical combination comprising a glucokinase activator or a pharmaceutically acceptable salt thereof, an isotope labeled compound thereof, a crystal form thereof, a hydrate, a solvate, a diastereomer or enantiomer thereof, and a K-ATP channel blocker. The present invention further relates to a pharmaceutical composition, a fixed dose combination formulation, and a method for preparing the pharmaceutical composition and the fixed dose combination formulation as well as a use thereof.

21: 2020/07681. 22: 2020/12/09. 43: 2024/05/23
51: A61K; A61P
71: HUA MEDICINE (SHANGHAI) LTD.
72: CHEN, Li, LI, Yongguo, WANG, Gaosen, GAO, Huisheng
33: CN 31: 201810556685.6 32: 2018-05-31

54: PHARMACEUTICAL COMBINATION, COMPOSITION AND COMBINATION FORMULATION COMPRISING GLUCOKINASE ACTIVATOR AND DPP-IV INHIBITOR, AND PREPARATION METHOD AND USE THEREOF

00: -

Disclosed is a pharmaceutical combination comprising a glucokinase activator or a pharmaceutically acceptable salt thereof, an isotope labeled compound thereof, a crystalline form thereof, a hydrate, a solvate, a diastereomeric or enantiomeric form thereof, and a DPP-IV inhibitor. Disclosed are a pharmaceutical composition and a fixed dose combination formulation, and the methods for preparing the pharmaceutical composition and the fixed dose combination formulation and the uses thereof.



21: 2020/07959. 22: 2020/12/18. 43: 2024/04/23
51: C10G
71: UNIVERSITY OF CAPE TOWN
72: ROALD BROSIUS

54: LOW PRESSURE HYDROCRACKING PROCESS FOR THE PRODUCTION OF A HIGH YIELD OF MIDDLE DISTILLATES FROM A HIGH BOILING HYDROCARBON FEEDSTOCK

00: -

The present invention provides for a low pressure, low temperature process for the production of middle distillate products, including aviation fuel and diesel, from the hydrocracking of a hydrocarbon feedstock consisting of a mixture of hydrocarbons, wherein a significant fraction of said mixture is C25+ hydrocarbons including hydrocarbons selected from Fischer-Tropsch wax, long chain paraffin and/or olefin, wherein the feedstock may include a water component.

21: 2021/00040. 22: 2021/01/04. 43: 2024/04/19
51: A24B
71: Nicoventures Trading Limited
72: MATHIE, Klaus, PENA, Maria Montserrat Sanchez
33: GB 31: 1811926.3 32: 2018-07-20

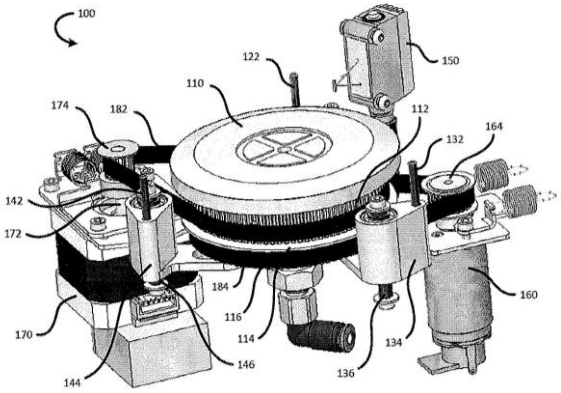
54: AEROSOLISABLE FORMULATION

00: -

An aerosolisable formulation is disclosed which comprises (i) one or more aerosol-forming agents; and (ii) a flavouring agent, wherein the flavouring agent is an extract obtained from an alcoholic beverage, and wherein the extract contains less than about 5% v/v ethanol. Also disclosed is a process for forming an aerosol, a contained aerosolisable formulation, an electronic aerosol provision system

and the use of an extract obtained from an alcoholic beverage as a flavouring agent in an electronic aerosol provision system, wherein the extract contains less than about 5% v/v ethanol.

21: 2021/00180. 22: 2021/01/11. 43: 2024/04/19
51: B01L; C12M; G01N
71: BD Kiestra B.V.
72: KUIPER, Wouter, VAN DER DONG, Harm W., VAN DER VIJVER, Jan Bart, KLEEFSTRA, Martijn
33: US 31: 62/697,197 32: 2018-07-12
54: SYSTEMS AND METHODS FOR CENTERING A CIRCULAR OBJECT
00: -
The present disclosure describes systems and methods for centering a circular object, such as a petri dish, between a plurality of pins. For example, in one embodiment, a method comprises placing a circular object on a rotatable platform surrounded by three moveable pins. In order to roughly center the circular object, the method further comprises moving, for a first time,all of the pins toward the circular object until at least two out of the three pins are touching the circular object. In order to more accurately center the circular object, the method further comprises: moving all of the pins away from the circular object so that it can be rotated without substantial inference; rotating the platform approximately 60 degrees, wherein rotating the platform causes the circular object to also rotate by approximately 60 degrees; and moving, for a second time,all of the pins toward the circular object.



21: 2021/00339. 22: 2021/01/18. 43: 2024/05/22
51: A23L
71: RED BULL GMBH
72: NACHBAGAUER, Josef, URBAN-KLIK, Manfred, BOEHRINGER, Volker
33: US 31: 15/395,432 32: 2016-12-30
33: EP 31: 16207626.9 32: 2016-12-30
54: SWEETENING COMPOSITIONS
00: -
The invention relates to a sweetening composition comprising a natural sweet-tasting carbohydrate, a stevia compound, rubusoside, and tannin, wherein component d) is present in an amount in the range from 1 mg/l to 400 mg/l. The invention also relates to a sweetening composition comprising a natural sweet-tasting carbohydrate, a stevia compound, rubusoside, tannin and oak extract or pomegranate extract. The invention further relates to a sweetening composition comprising acesulfam or aspartame, sucralose, a stevia compound, saccharin or cyclamate, neohesperidin, and tannin in an amount in the range from 1 mg/l to 400 mg/l. Moreover, the invention relates to a sweetening composition comprising a) 0,1 to 50 g/l of a natural sweet-tasting carbohydrate, b) 40 to 120 g/l of a natural sweet-tasting carbohydrate different from a), and c) 30 to 300 mg/l of rubusoside. And, the invention is about the use of said sweetening compositions for sweetening and preparing beverages.

21: 2021/00967. 22: 2021/02/12. 43: 2024/04/19
51: F41A
71: THE MOUNT TRUST
72: STEYN, Johannes Jurgens
54: A RECOIL COMPENSATION BALLISTICS BENCH
00: -
This invention relates to a recoil compensating ballistics bench 10 for developing a load for a rifle 12 and for sighting of the rifle 12. To this end, the ballistics bench 10 includes a base 13 and a buttstock cradle 15 which is configured removably to receive a buttstock of the rifle 12 and is pivotally mounted to a slide 16 which is linearly displaceable relative to the base 13. A forearm stock cradle 17 is also provided and is secured to a depending carriage 21 of a pendulum 22. The bench 10 further includes an arrestor which is connected to the slide to arrest recoil of the rifle when the rifle is fired whilst still permitting linear and angular displacement of the buttstock cradle and rearward and upward angular displacement of the pendulum 22, and hence the

forearm stock cradle, in order to mimic rifle motion when fired out of the shoulder.

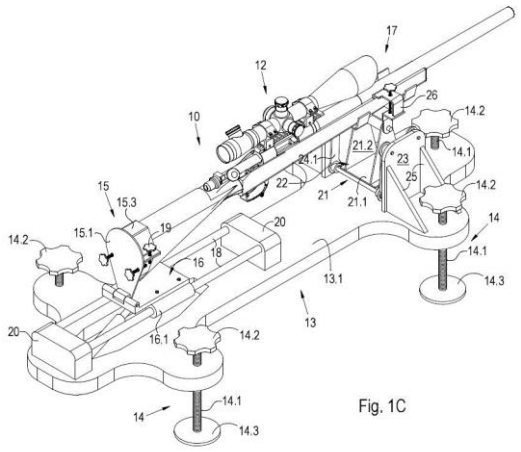
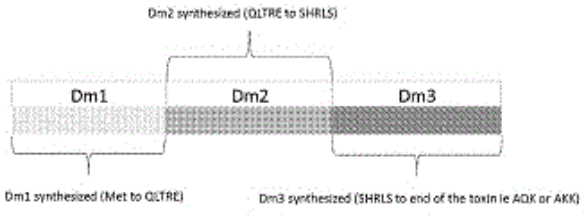
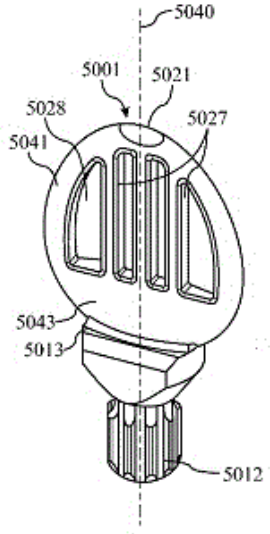


Fig. 1C

21: 2021/01024. 22: 2021/02/15. 43: 2024/04/09
51: C07K; C12N
71: PIONEER HI-BRED INTERNATIONAL, INC.
72: ELLAINE ANNE MARIANO FOX, NAGA KISHORE KAKANI, KAY WALTER, TAKASHI YAMAMOTO, YI ZHENG
33: US 31: 62/724,276 32: 2018-08-29
54: INSECTICIDAL PROTEINS AND METHODS FOR THEIR USE
00: -
This disclosure relates to the field of molecular biology. Provided are novel genes that encode pesticidal proteins. These pesticidal proteins and the nucleic acid sequences that encode them are useful in preparing pesticidal formulations and in the production of transgenic pest-resistant plants. Methods to create or alter pesticidal proteins are provided for altered or enhanced pesticidal activity.

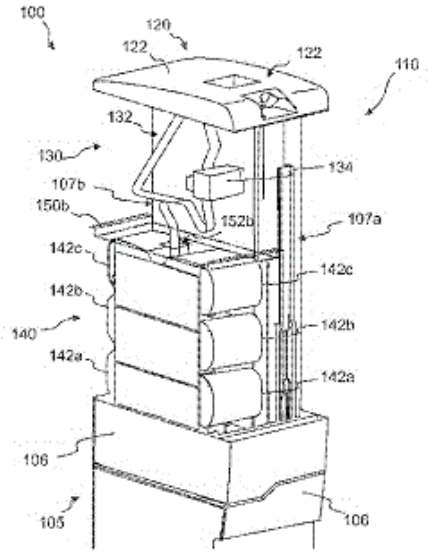


21: 2021/01093. 22: 2021/02/17. 43: 2024/04/09
51: A01G
71: INVAIO SCIENCES INTERNATIONAL GMBH
72: LUKAS RUDOLF SCHUPBACH, URS WIDMER, MICHAEL CHRISTIAN OEHL, ANTONY MATHAI CHETTOOR
33: CH 31: 00917/18 32: 2018-07-25
33: CH 31: 00526/19 32: 2019-04-17
54: INJECTION SYSTEMS, INJECTION TOOLS AND METHODS FOR SAME
00: -
A plant injection system includes an injection tool configured to penetrate a plant and distribute a liquid formulation to the plant. The injection tool includes a base having an inlet port and a penetrating distribution body extending along a longitudinal body axis. The penetrating distribution body includes a penetrating element and one or more distribution ports in communication with the inlet port. The one or more distribution ports are spaced from the penetrating element. The injection tool includes penetrating and distribution configurations. In the penetrating configuration the penetrating element is configured to penetrate the plant along the longitudinal body axis. In the distribution configuration the one or more distribution ports are configured to distribute the liquid formulation to the plant transversely relative to one or more penetrating directions, at least one of the penetrating directions corresponding to the longitudinal body axis.



21: 2021/01151. 22: 2021/02/19. 43: 2024/04/09
51: G07D; G07F
71: SCAN COIN AB
72: ANDERS SJÖSTRÖM, ANDREAS JOHANSSON
33: SE 31: 1850932-3 32: 2018-07-23
54: A CASH DEPOSITING AND DISPENSING MACHINE AND A METHOD FOR ACCESSING A CASH DEPOSITING AND DISPENSING MACHINE

00: -
The disclosure relates to a cash depositing and dispensing machine (100) comprising:a machine body (105) having outer circumferential walls (106), and an arrangement (110) comprising:a cash input/output unit (120) having an interface (122) for allowing depositing and dispensing of cash, a cash handling unit (130), and a cash storage unit (140), wherein said cash input/output unit (120), said cash handling unit (130), and said cash storage unit (140) being arranged in relation to each other in relation to said machine body (105) between: a closed position (P1) for which the outer circumferential walls (106) of the machine body (105) enclose the cash handling unit (130) and the cash storage unit (140) so as to prevent access thereto, and a service position (P2) and a cash access position (P3) for which at least the cash handling unit (130) protrudes from the machine body (105) so as to allow access thereto.



21: 2021/01153. 22: 2021/02/19. 43: 2024/04/09
51: A61K; C07H; C12N
71: SIRNAOMICS, INC.
72: DMITRY SAMARSKY
33: US 31: 62/765,454 32: 2018-08-27
33: US 31: 62/726,619 32: 2018-09-04
54: MINIATURIZED HAIRPIN RNAI TRIGGERS (MXRNA) AND METHODS OF USES THEREOF
00: -
The present invention relates to novel RNAi triggers that can be chemically synthesized and used to modulate gene expression inside animal cells to study various genes function in laboratories or as an active ingredient for agricultural, veterinary, cosmetic and/or therapeutic applications

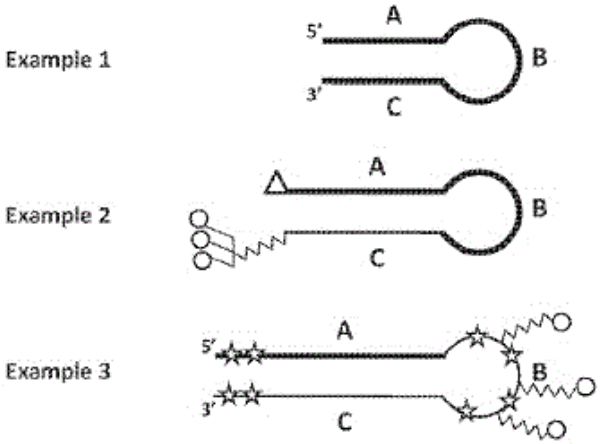
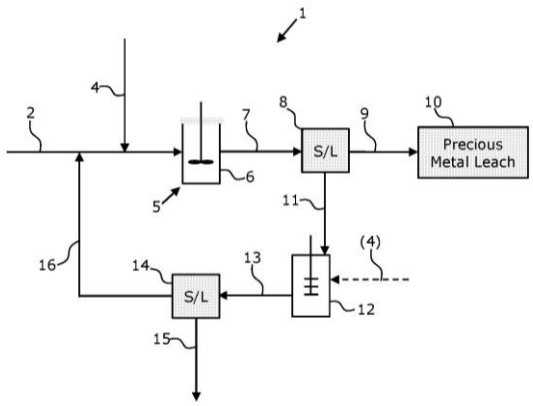


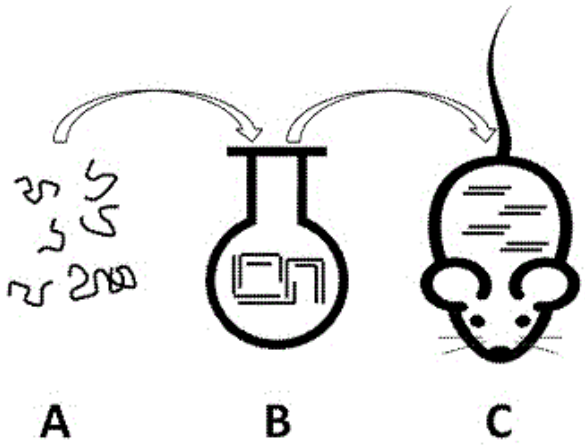
Figure 1

21: 2021/01289. 22: 2021/02/25. 43: 2024/04/10
51: C22B
71: FLSmidth A/S
72: CHAIKO, David J.
33: US 31: 62/723,372 32: 2018-08-27
54: SOLID-STATE CATALYSTS FOR LOW OR MODERATE TEMPERATURE LEACH APPLICATIONS AND METHODS THEREOF
00: -
Abstract is a device.

A method for removing sulfate iron-containing compounds from a low- to moderate-temperature metal sulfide leach circuit (1) is disclosed. A reactor (6) within a chloride leach circuit (5) and which is preferably maintained at a temperature between 20 and 150 degrees Celsius may be provided with a catalyst (4) comprising a material selected from the group consisting of: colloidal hematite, colloidal goethite, particulate containing FeOOH, particulate containing α-FeOOH, particulate containing γ-FeOOH, particulate containing Fe_2O_3, particulate containing α-Fe_2O_3, particulate containing γ-Fe_2O_3, particulate containing Fe_3O_4, particulate containing $Fe(OH)SO_4$, and a combination thereof. The catalyst (4) may also be used with heap leach and/or dump leach circuits (22), without limitation. Methods for using and generating the catalyst (4) are also disclosed. In some embodiments, the catalyst (4) may be used as an anti-frothing agent (e.g., for zinc leaching, without limitation).



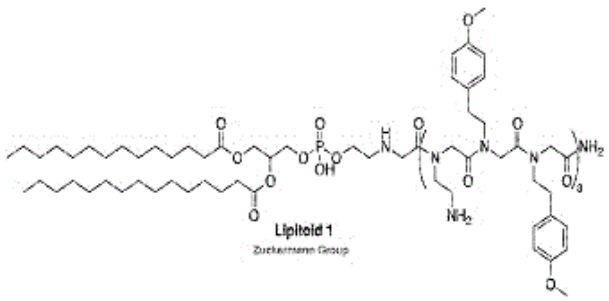
21: 2021/01298. 22: 2021/02/25. 43: 2024/04/09
51: A61K; C12N
71: SIRNAOMICS, INC.
72: DMITRY SAMARSKY
33: US 31: 62/738,222 32: 2018-09-28
54: MULTI-TARGETING NUCLEIC ACID CONSTRUCTS COMPOSED OF MULTIPLE OLIGONUCLEOTIDES THAT MODULATE GENE EXPRESSION THROUGH COMPLIMENTARY INTERACTIONS WITH TARGETS
00: -
The present invention provides a multi-targeting nucleic acid construct comprising at least: (a) a first nucleic acid portion that is at least partially complementary to at least a first portion of RNA transcribed from a target gene; (b) a second nucleic acid portion that is at least partially complementary to at least a second portion of RNA transcribed from a target gene, which target gene may be the same or different to the target gene defined in (a); (c) a third nucleic acid portion that is at least partially complementary to the first nucleic acid portion of (a), so as to form a first nucleic acid duplex region therewith; (d) a fourth nucleic acid portion that is at least partially complementary to said second nucleic acid portion of (b), so as to form a second nucleic acid duplex region therewith. The construct is designed so that subsequent to in vivo administration the construct disassembles to yield at least first and second discrete nucleic acid targeting molecules that respectively target RNA transcribed from the target genes of (a) and (b). Typically, the first nucleic acid targeting molecule is capable of modulating expression of the target gene of (a), and comprises, or is derived from, at least the first nucleic acid portion of (a). Typically, the second nucleic acid targeting molecule is capable of modulating expression of said target gene of (b), and comprises, or is derived from, the second nucleic acid portion of (b).



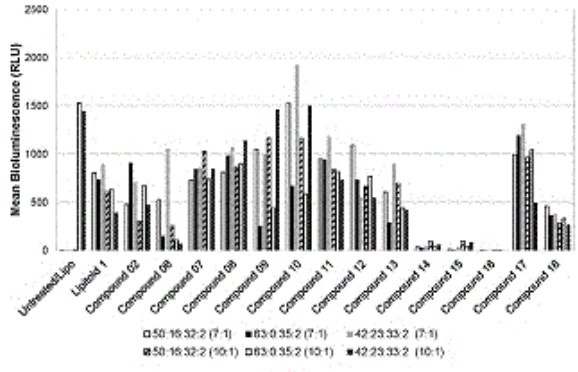
21: 2021/01325. 22: 2021/02/25. 43: 2024/06/03
51: A61K; C07K; G01N; A61P
71: I-MAB BIOPHARMA (HANGZHOU) CO., LTD.
72: CAO, Wei, XU, Weili
33: CN 31: PCT/CN2018/106157 32: 2018-09-18
54: ANTI-IFNAR1 ANTIBODIES FOR TREATING AUTOIMMUNE DISEASE
00: -
Provided are antibodies or fragments thereof having binding specificity to the human interferon alpha and beta receptor subunit 1 (IFNAR1) protein. In various examples, the antibodies or fragments thereof include a VH and VL CDRs as disclosed herein, or variants thereof. Methods of using the antibodies or fragments thereof for treating autoimmune diseases and disorders are also provided.

21: 2021/01376. 22: 2021/02/26. 43: 2024/04/09
51: C07K
71: NUTCRACKER THERAPEUTICS, INC.
72: COLIN JAMES MCKINLAY
33: US 31: 62/738,717 32: 2018-09-28
33: US 31: 62/885,036 32: 2019-08-09
54: TERTIARY AMINO LIPIDATED CATIONIC PEPTIDES FOR NUCLEIC ACID DELIVERY
00: -
The present disclosure relates to tertiary amino lipidated and/or PEGylated cationic peptide compounds and complexes thereof with nucleic acids for endocellular delivery, methods for preparing the compounds and complexes, and

methods for delivering polyanionic compounds to cells.

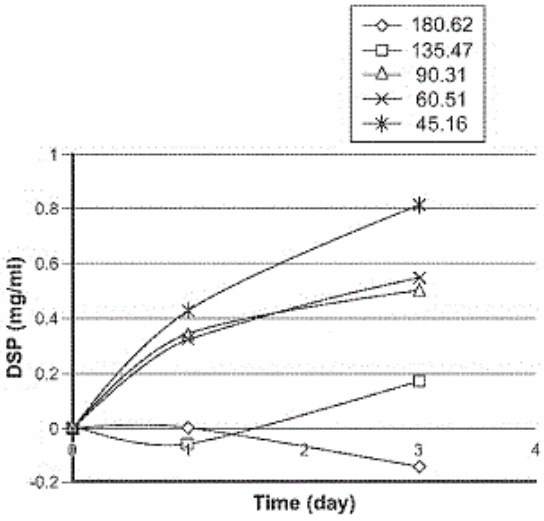


21: 2021/01465. 22: 2021/03/03. 43: 2024/04/18
51: A61K
71: NUTCRACKER THERAPEUTICS, INC.
72: COLIN JAMES MCKINLAY
33: US 31: 62/738,717 32: 2018-09-28
33: US 31: 62/885,036 32: 2019-08-09
54: LIPID NANOPARTICLE FORMULATIONS COMPRISING LIPIDATED CATIONIC PEPTIDE COMPOUNDS FOR NUCLEIC ACID DELIVERY
00: -
The present disclosure relates to lipid mixtures comprising lipidated cationic peptide compounds, such as tertiary amino lipidated and/or PEGylated cationic peptide compounds or lipitoids, for nucleic acid delivery. More specifically, the present disclosure relates to lipid nanoparticle formulations comprising lipidated cationic peptide compounds and other lipid components including structural lipid, phospholipid and shielding lipids. The present disclosure also relates to methods of preparing and using the lipid mixtures.



21: 2021/01495. 22: 2021/03/04. 43: 2024/04/18
51: A61K; C07K
71: AUTOLUS LIMITED
72: MARTIN PULÉ, SHAUN CORDOBA, SIMON THOMAS, SHIMOBI ONUOHA, WEN CHEAN LIM, BIAO MA, MATHIEU FERRARI
33: GB 31: 1815775.0 32: 2018-09-27
33: GB 31: 1902021.3 32: 2019-02-14
54: CHIMERIC ANTIGEN RECEPTOR
00: -
The present invention provides a chimeric antigen receptor (CAR) which binds a low density target antigen, which comprises a Fab antigen binding domain. The invention also relates to cells expressing such a CAR and their use in the treatment of disease.

21: 2021/01688. 22: 2021/03/12. 43: 2024/04/26
51: A61K
71: TLC BIOPHARMACEUTICALS, INC., TAIWAN LIPOSOME CO., LTD.
72: YUN-LONG TSENG, SHEUE-FANG SHIH, PO-CHUN CHANG, LO CHANG
33: US 31: 62/731,941 32: 2018-09-16
54: PHARMACEUTICAL COMPOSITIONS SUITABLE FOR ARTICULAR DELIVERY AND USE THEREOF IN TREATMENT OF JOINT PAIN
00: -
The present disclosure relates to pharmaceutical composition for the treatment of joint pain. The composition contains a lipid mixture comprising one or more phospholipids; and an effective amount of a therapeutic agent or a pharmaceutically acceptable salt thereof, where the total amount of phospholipids in said composition is about 20 mM to about 150 mM, optionally 70 mM to 110 mM. Also provided is the use of the pharmaceutical composition in the treatment of joint pain by articular injection.

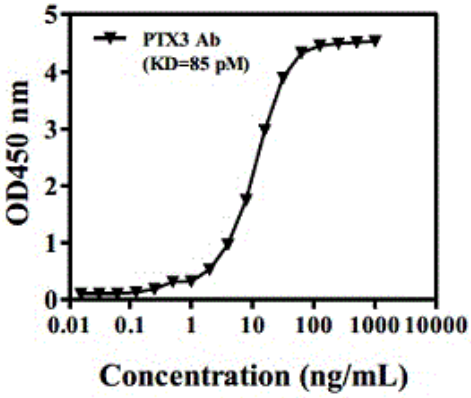


21: 2021/01755. 22: 2021/03/16. 43: 2024/04/18
51: A61K; C07K; G01N; A61P
71: OHEALTH BIOPHARMACEUTICAL (SUZHOU) CO., LTD.
72: JU-MING WANG, I-CHEN LEE, YU-WEI HSIAO, JHIH-YING CHI, JYUN-YI DU, HSIN-YIN LIANG, CHAO-CHUN CHENG, CHIUNG-YUAN KO, FENG-WEI CHEN, JHIH-YUN LIU
33: US 31: 62/867,244 32: 2019-06-27
33: CN 31: PCT/CN2018/105733 32: 2018-09-14
33: CN 31: PCT/CN2018/106144 32: 2018-09-18

54: MEDICINAL COMPOSITION CONTAINING MONOCLONAL ANTIBODY OR ANTIBODY FAB FRAGMENT THEREOF, AND USE THEREOF

00: -

The present invention provides a PTX3 monoclonal antibody or antibody Fab fragment thereof and use thereof. The aforementioned monoclonal antibody or antibody Fab fragment thereof specifically inhibit or slow down the binding of PTX3 to the PTX3 receptor, and may be used for a kit and method for detecting PTX3, and a pharmaceutical composition which inhibits or slows down diseases or symptoms associated with PTX3 and PTX3 receptor binding, and a use thereof.

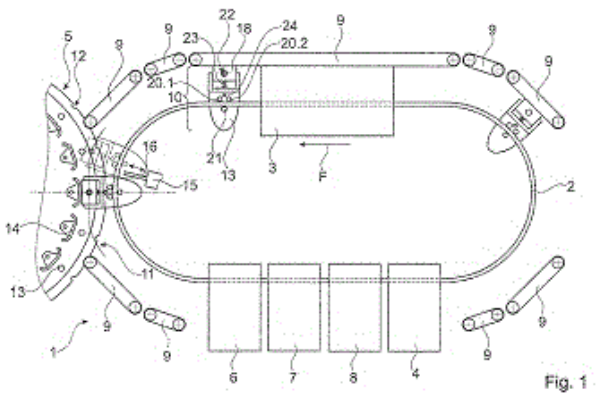


21: 2021/01796. 22: 2021/03/17. 43: 2024/04/26
51: A61F
71: Ruggli AG
72: SAMUEL SCHULER, PATRICK BAUMGARTNER
33: CH 31: 01069/18 32: 2018-09-10

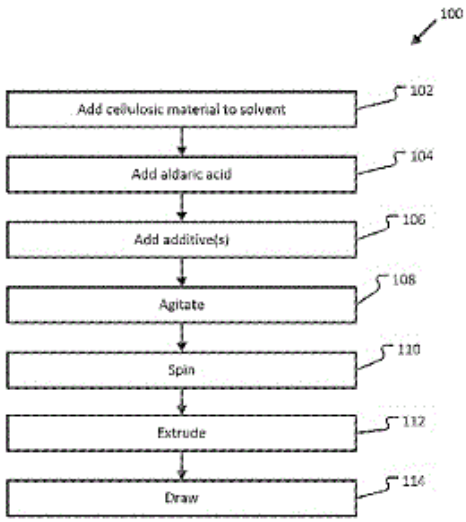
54: DEVICE AND METHOD FOR LOADING TAMPON APPLICATORS WITH TAMPONS

00: -

The invention relates to a device for loading tampon applicators (40) with tampons (41). The device comprises a circulating guide arrangement (2) with an entry point (3) at which tampon applicators (40) are fed into the device. It further comprises an exit point (4) where loaded tampon applicators (42) are discharged. The claimed device additionally comprises a loading unit (5) which is positioned between the entry point (3) and the exit point (4) and designed such that it can load tampon applicators (40) with tampons (41). A plurality of guide units (10) guided on the guide arrangement allows the tampon applicators (40) to be conveyed on said guide arrangement (2). The present invention also relates to a method for loading tampon applicators with tampons, and to a guide unit for conveying tampon applicators on a device for loading tampon applicators.

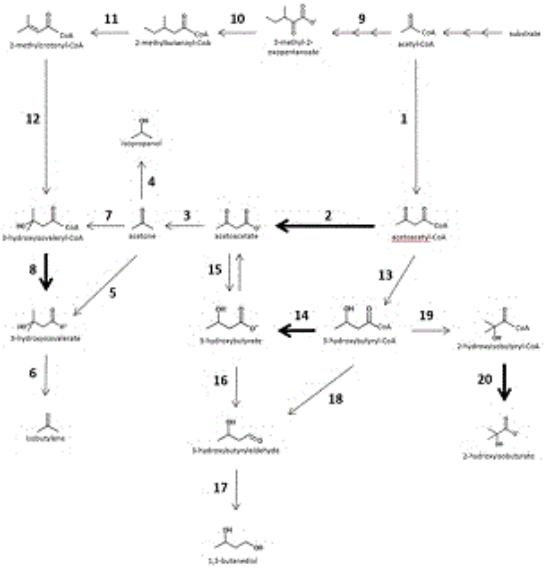


21: 2021/01977. 22: 2021/03/24. 43: 2024/04/23
51: C08K; D01D; D01F
71: NORTH CAROLINA STATE UNIVERSITY
72: ERICKA N FORD, RYAN DWYER, HANNAH DEDMON
33: US 31: 62/742,033 32: 2018-10-05
54: CELLULOSIC FIBER PROCESSING
00: -
Strengthening the dry and wet tenacity of regenerated cellulosic fibers can be performed through the addition of an aldaric acid, such as (but not limited to) glucaric acid. In some embodiments, regenerated cellulosic fibers that include an aldaric acid or a salt thereof, produced by the disclosed methods are also described. The produced fibers have advantageous properties due at least in part to the inclusion of the aldaric acid.



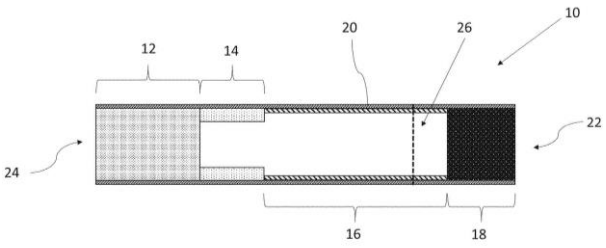
21: 2021/01978. 22: 2021/03/24. 43: 2024/04/26
51: B01J
71: GLACEUM, INC.
72: SANG KU YOO, KU SUK KANG, JIN YOUNG KIM, JUNG WOO LEE, JI YOUNG KIM, JEONG HO IM
33: KR 31: 10-2018-0117777 32: 2018-10-02
33: KR 31: 10-2019-0117657 32: 2019-09-24
54: CATALYST FOR ASYMMETRIC HYDROGENATION OF COMPOUND CONTAINING CARBON DOUBLE BOND
00: -
The present invention provides a catalyst for asymmetric hydrogenation, capable of isolating, with enantioselectivity, an enantiomer from a compound containing a carbon double bond. A catalyst according to one embodiment of the present invention comprises an iridium cation and ligands bound to the iridium cation.

21: 2021/02053. 22: 2021/03/26. 43: 2024/04/26
51: C12N; C12P
71: LANZATECH NZ, INC.
72: MICHAEL KOEPKE, RASMUS OVERGAARD JENSEN, JAMES BRUCE YARNTON HAYCOCK BEHRENDORFF, RYAN EDWARD HILL, DARMAWI JUMINAGA, ALEXANDER PAUL MUELLER
33: US 31: 62/240,850 32: 2015-10-13
54: GENETICALLY ENGINEERED BACTERIUM COMPRISING ENERGY-GENERATING FERMENTATION PATHWAY
00: -
The invention relates to a genetically engineered bacterium comprising an energy-generating fermentation pathway and methods related thereto. In particular, the invention provides a bacterium comprising a phosphate butyryltransferase (Ptb) and a butyrate kinase (Buk) (Ptb-Buk) that act on non-native substrates to produce a wide variety of products and intermediates. In certain embodiments, the invention relates to the introduction of Ptb-Buk into a C1-fixing microoorgansim capable of producing products from a gaseous substrate.



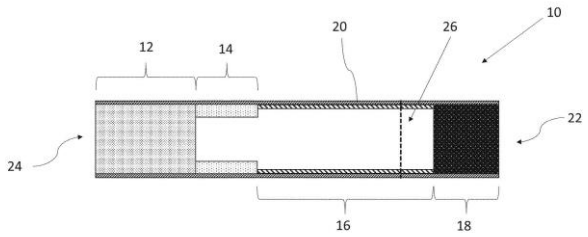
21: 2021/02071. 22: 2021/03/26. 43: 2024/04/18
51: A61K; C07K; G01N; A61P
71: INOTREM
72: MARC DERIVE, AURELIE OLIVIER, KEVIN CARRASCO, MARTIN KOCH, MARGARITA SALCEDO-MAGGUILLI, AMIR BOUFENZER, LUCIE JOLLY, JEAN-JACQUES GARAUD
33: EP 31: 18306277.7 32: 2018-09-28
54: USE OF SOLUBLE TREM-1 LEVELS FOR IDENTIFYING SUBJECTS SUSCEPTIBLE TO RESPOND TO AN ANTI-INFLAMMATORY THERAPY
00: -
The present invention relates to a method for identifying human subjects suffering from an inflammatory disorder susceptible to respond to a therapy, in particular to a TREM-1 inhibitor. In particular, the present invention relates to an in vitro method for identifying a human subject suffering from an inflammatory disorder, preferably an acute inflammatory disorder such as SIRS, sepsis or septic shock, susceptible to respond to a therapy, in particular to a TREM-1 inhibitor, said method comprising: a) measuring the level of soluble triggering receptors expressed on myeloid cells-1 (sTREM-1) in a biological sample from the human subject; b) comparing the level of sTREM-1 measured at step a) to a predetermined sTREM-1 value; and c) identifying a human subject suffering from an inflammatory disorder, preferably an acute inflammatory disorder such as SIRS, sepsis or septic shock, with a level of sTREM-1 measured at step a) higher than the predetermined sTREM-1 value of step b) as susceptible to respond to a therapy, in particular to a TREM-1 inhibitor.

21: 2021/02097. 22: 2021/03/29. 43: 2024/05/24
51: A24D; A24F
71: PHILIP MORRIS PRODUCTS S.A.
72: UTHURRY, Jérôme
33: EP 31: 18214929.4 32: 2018-12-20
54: AEROSOL-GENERATING ARTICLE WITH VENTILATED HOLLOW SEGMENT
00: -
An aerosol-generating article (10) for producing an inhalable aerosol when heated comprises: a rod of aerosol-generating substrate (12); a mouthpiece segment (18) comprising a plug of filtration material and arranged downstream of, and longitudinally aligned with, the rod (12); and a hollow tubular segment (16) between the rod (12) and the mouthpiece segment (18). The hollow tube segment (16) is longitudinally aligned with the rod (12) and the mouthpiece segment (18), and defines a cavity extending all the way to an upstream end of the mouthpiece segment (18). The article (10) further comprises a ventilation zone (26) at a location along the hollow tubular segment. An equivalent internal diameter of the hollow tubular segment (16) at the location of the ventilation zone (26) is at least about 5 millimetres. The rod (12) of aerosol-generating substrate comprises at least an aerosol former, the rod (12) having an aerosol former content of at least about 10 percent on a dry weight basis.



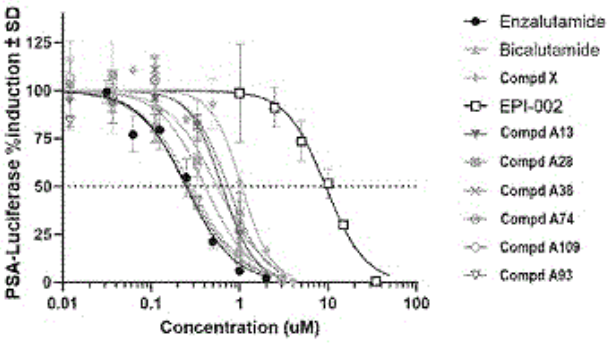
21: 2021/02098. 22: 2021/03/29. 43: 2024/05/24
51: A24D
71: PHILIP MORRIS PRODUCTS S.A.
72: UTHURRY, Jérôme
33: EP 31: 18214844.5 32: 2018-12-20
54: AEROSOL GENERATING ARTICLE WITH LIGHT HOLLOW SEGMENT
00: -
An aerosol-generating article (10) for producing an inhalable aerosol when heated comprises: a rod of

aerosol-generating substrate (12); and a hollow tubular segment (16) downstream of and in longitudinal alignment with the rod (12). The hollow tube segment (16) defines a cavity extending all the way from an upstream end of the hollow tubular segment (16) to a downstream end of the hollow tubular segment (16). The article (10) comprises a ventilation zone (26) at a location along the hollow tubular segment. The hollow tubular segment has a length of less than about 25 millimetres. A ratio between a weight of the hollow tubular segment and a volume of the cavity defined by the hollow tubular segment is less than 1 milligram/cubic millimetres. The rod (12) of aerosol-generating substrate comprises at least an aerosol former, the rod (12) having an aerosol former content of at least about 10 percent on a dry weight basis.



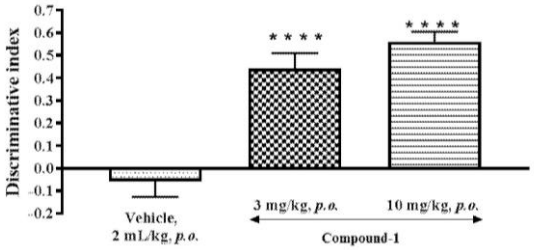
21: 2021/02158. 22: 2021/03/30. 43: 2024/04/23
51: A61K; G01N
71: CIDARA THERAPEUTICS, INC.
72: JAMES M BALKOVEC, DANIEL C BENSEN, ALLEN BORCHARDT, THOMAS P BRADY, ZHI-YONG CHEN, JASON COLE, QUYEN-QUYEN THUY DO, SIMON DOEHRMANN, WANLONG JIANG, THANH LAM, ALAIN NONCOVICH, LESLIE W TARI
33: US 31: 62/727,821 32: 2018-09-06
33: US 31: 62/746,865 32: 2018-10-17
33: US 31: 62/782,119 32: 2018-12-19
33: US 31: 62/788,386 32: 2019-01-04
33: US 31: 62/813,463 32: 2019-03-04
33: US 31: 62/815,235 32: 2019-03-07
33: US 31: 62/832,992 32: 2019-04-12
33: US 31: 62/840,899 32: 2019-04-30
33: US 31: 62/852,075 32: 2019-05-23
33: US 31: 62/859,983 32: 2019-06-11
33: US 31: 62/873,678 32: 2019-07-12
33: US 31: 62/890,475 32: 2019-08-22
54: COMPOSITIONS AND METHODS FOR THE TREATMENT OF VIRAL INFECTIONS
00: -
Compositions and methods for the treatment of viral infections include conjugates containing inhibitors of viral neuraminidase (e.g., zanamivir, peramivir, or analogs thereof) linked to an Fc monomer, an Fc domain, and Fc-binding peptide, an albumin protein, or albumin-binding peptide. In particular, conjugates can be used in the treatment of viral infections (e.g., influenza viral infections).

21: 2021/02202. 22: 2021/03/31. 43: 2024/04/18
51: A61K; C07C
71: Essa Pharma Inc.
72: HAN-JIE ZHOU, PETER VIRSIK
33: US 31: 62/747,209 32: 2018-10-18
33: US 31: 62/803,516 32: 2019-02-10
33: US 31: 62/857,516 32: 2019-06-05
54: ANDROGEN RECEPTOR MODULATORS AND METHODS FOR THEIR USE
00: -
The present invention relates to compounds of formula (I)-(VI) and/or (A)-(H-I), or any subgenera thereof, or a pharmaceutically acceptable salt, tautomer or stereoisomer. The compounds of the present disclosure are useful in modulating androgen receptor activity and for treating cancer including prostate cancer.



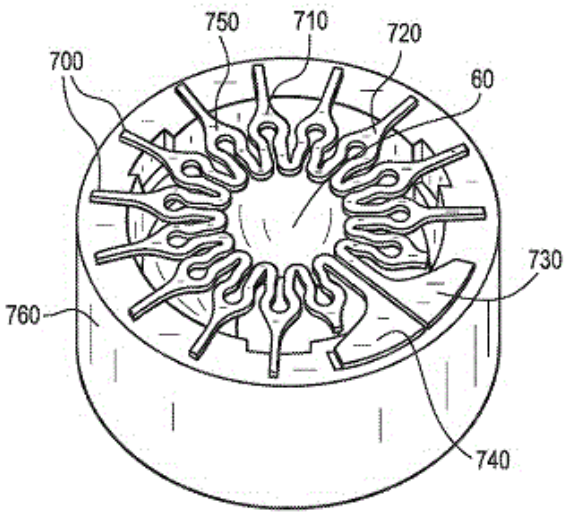
21: 2021/02512. 22: 2021/04/16. 43: 2024/05/23
51: A61K; A61P
71: SUVEN LIFE SCIENCES LIMITED
72: BHYRAPUNENI, Gopinadh, NIROGI, Ramakrishna, SHINDE, Anil Karbhari, GRANDHI, Venkata, Ramalingayya, BENADE, Vijay, JASTI, Venkateswarlu, MOHAMMED, Abdul, Rasheed, JAYARAJAN, Pradeep
33: IN 31: 201841039516 32: 2018-10-18
54: NEW USES OF A 5-HT4 RECEPTOR AGONIST
00: -
The present invention relates to new uses of a 5-HT4 receptor agonist, specifically Isopropyl-3 - { 5- [1 -(3 -methoxypropyl) piperidin-4-yl] - [1,3,4] oxadiazol-2-yl } - 1 H- indazole (Compound- 1) or a

pharmaceutically acceptable salts thereof, for the treatment of dementia due to menopause, senile dementia, cognitive deficits associated with schizophrenia, depression, chemotherapy-induced cognitive impairment, and behavioral and psychological symptoms of dementia such as apathy/indifference, agitation, aggression, depression, anxiety, irritability/lability, dysphoria, aberrant motor behavior, delusions, hallucinations, elation/euphoria, psychosis, disinhibition, sleep and night time behavior disorders or appetite and eating disorders. The present invention further provides use of the said compounds in the manufacture of medicament intended for the treatment of the disorders described herein.

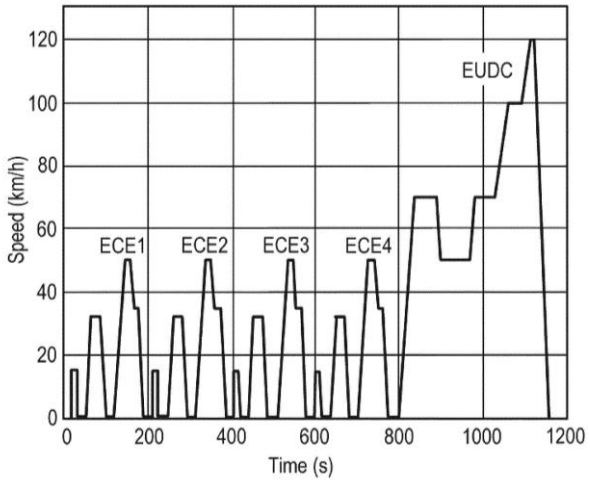


Data represents Mean ± SEM of discriminative index. ****p<0.0001 vs. vehicle group (One-way ANOVA followed by Bonferroni's posthoc test) n= 12.

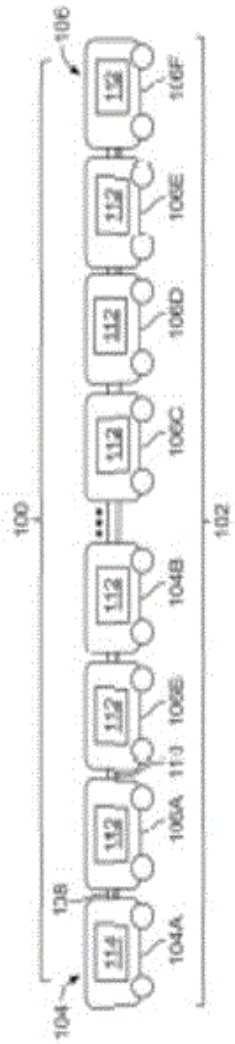
21: 2021/03476. 22: 2021/05/21. 43: 2024/04/22
51: A24F; H05B
71: ALTRIA CLIENT SERVICES LLC
72: ARIE HOLTZ, ISAAC WEIGENSBERG
33: US 31: 16/273,612 32: 2019-02-12
54: HEATING ELEMENT AND HEATER ASSEMBLIES, CARTRIDGES, AND E-VAPOR DEVICES INCLUDING A HEATING ELEMENT
00: -
In an example embodiment, a heater assembly for an electronic heating device includes a heating element and a support. The heating element includes a planar portion, a first lead, and a second lead. The planar portion includes a filament. The filament defines an air channel through the planar portion. The filament includes a plurality of curves. At least one of the curves has a tip thereon. At least one of the first lead portion, the second lead portion, or both the first lead portion and the second lead portion are generally coplanar with the planar portion of the heating element. The heating element is in contact with the support such that the tip of the at least one of the curves rests thereon.



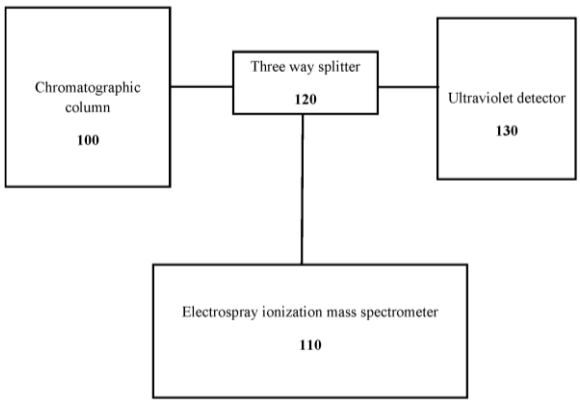
21: 2021/03626. 22: 2021/05/27. 43: 2024/05/28
51: C10L
71: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.
72: SMITH, Alastair, Graham
33: EP 31: 19154165.5 32: 2019-01-29
54: IMPROVEMENTS RELATING TO FUEL ECONOMY
00: -
Use of a viscosity increasing component in a diesel fuel composition, for the purpose of improving the fuel economy of an engine into which the fuel composition is or is intended to be introduced, or of a vehicle powered by such an engine, wherein the viscosity increasing component is a viscosity index (VI) improving additive, wherein the VI improving additive comprises a linear block copolymer, which contains one or more monomer blocks selected from ethylene, propylene, butylene, butadiene, isoprene and styrene monomers and wherein the VI improving additive is used at a concentration of from 0.001% w/w to 0.05% w/w.



21: 2021/04492. 22: 2021/06/29. 43: 2024/04/23
51: B60T
71: Westinghouse Air Brake Technologies Corporation
72: WOLF, Charles L., HAAS, Carl L.
33: US 31: 63/049,449 32: 2020-07-08
54: BRAKE CONTROL SYSTEM
00: -
A braking system and method control application of brakes disposed onboard vehicles using brake control devices. The vehicles are in a multi-vehicle system and are associated with different segments of the vehicle system. Brake commands are sent to the brake control devices. These commands direct the brake control devices of the vehicles to concurrently engage the brakes onboard the vehicles to different brake levels based on which of the segments that the vehicles are associated.

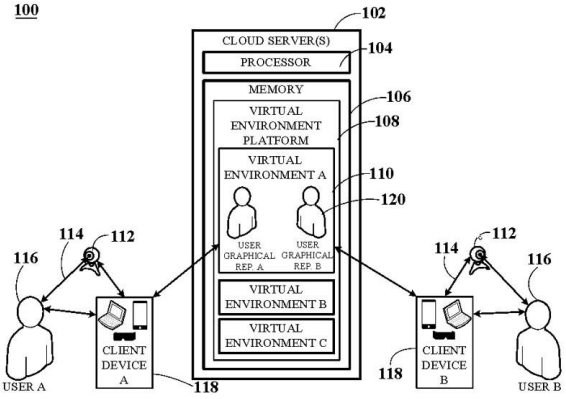


21: 2021/04809. 22: 2021/07/09. 43: 2024/05/24
51: G01N
71: REGENERON PHARMACEUTICALS, INC.
72: WANG, Shunhai, YAN, Yuetian
33: US 31: 62/796,794 32: 2019-01-25
33: US 31: 62/852,591 32: 2019-05-24
54: QUANTITATION AND IDENTIFICATION OF DIMERS IN CO-FORMULATIONS
00: -
Methods and system for identification of dimer species using online chromatography and electrospray ionization mass spectrometry are provided. Also provided are methods and system for quantitation of heterodimer species using immunoprecipitation and liquid chromatography-mass spectrometry.



21: 2021/05596. 22: 2021/08/10. 43: 2024/06/11
51: G06F; H04L
71: TMRW FOUNDATION IP SARL
72: YERLI, Cevat
33: US 31: 17/006,327 32: 2020-08-28
33: US 31: 17/060,459 32: 2020-10-01
54: DATA PROCESSING SYSTEM AND METHOD
00: -
A system enabling interactions in virtual environments comprises one or more cloud server computers comprising at least one processor and memory storing data and instructions implementing a virtual environment platform comprising at least one virtual environment; at least one camera obtaining live data feed from a user of a client device; and a client device communicatively connected to the one or more cloud server computers and at least one camera. The system generates a user graphical representation from the live data feed that is inserted into a selected virtual environment and is therein updated, enabling real-time multi-user collaboration and interactions in the virtual environment. Suitable system architectures and methods thereof are also herein disclosed.

21: 2021/05598. 22: 2021/08/10. 43: 2024/06/13
51: G06F; H04L
71: TMRW FOUNDATION IP SARL
72: YERLI, Cevat
33: US 31: 17/006,327 32: 2020-08-28
33: US 31: 17/060,516 32: 2020-10-01
54: SYSTEM AND METHOD FOR VIRTUALLY BROADCASTING FROM WITHIN A VIRTUAL ENVIRONMENT
00: -
A spatially-aware multimedia router system includes at least one media server computer configured to receive and analyze incoming data comprising incoming multimedia streams from client devices, and adapt outbound multimedia streams for individual client devices based on the incoming data received from the client devices. The incoming multimedia streams include elements from within a virtual environment. The outbound multimedia streams are adapted for the individual client devices based on user priority data and spatial orientation data that describes spatial relationships between corresponding user graphical representations and sources of the incoming multimedia streams within the virtual environment.



21: 2021/05599. 22: 2021/08/10. 43: 2024/06/11
51: G06F; H04L
71: TMRW FOUNDATION IP SARL
72: YERLI, Cevat
33: US 31: 17/006,327 32: 2020-08-28
33: US 31: 17/060,555 32: 2020-10-01
54: SYSTEM AND METHOD FOR THE DELIVERY OF APPLICATIONS WITHIN A VIRTUAL ENVIRONMENT
00: -
A system enabling interactions in virtual environments comprises one or more cloud server computers comprising at least one processor and memory storing data and instructions implementing a virtual environment platform comprising at least one virtual environment; at least one camera obtaining live data feed from a user of a client device; and a client device communicatively connected to the one or more cloud server computers and at least one camera. The system generates a user graphical representation from the live data feed that is inserted into a selected virtual environment and is therein updated, enabling real-

time multi-user collaboration and interactions in the virtual environment. Suitable system architectures and methods thereof are also herein disclosed.

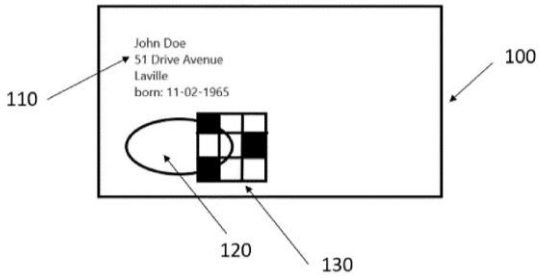
21: 2021/05600. 22: 2021/08/10. 43: 2024/06/11
51: G06F; H04L
71: TMRW FOUNDATION IP SARL
72: YERLI, Cevat
33: US 31: 17/006,327 32: 2020-08-28
33: US 31: 17/060,591 32: 2020-10-01
54: SYSTEM AND METHOD TO PROVISION CLOUD COMPUTING-BASED VIRTUAL COMPUTING RESOURCES WITHIN A VIRTUAL ENVIRONMENT
00: -
A system enabling interactions in virtual environments comprises one or more cloud server computers comprising at least one processor and memory storing data and instructions implementing a virtual environment platform comprising at least one virtual environment; at least one camera obtaining live data feed from a user of a client device; and a client device communicatively connected to the one or more cloud server computers and at least one camera. The system generates a user graphical representation from the live data feed that is inserted into a selected virtual environment and is therein updated, enabling real-time multi-user collaboration and interactions in the virtual environment. Suitable system architectures and methods thereof are also herein disclosed.

21: 2021/05602. 22: 2021/08/10. 43: 2024/06/11
51: G06F; H04L
71: TMRW FOUNDATION IP SARL
72: YERLI, Cevat
33: US 31: 17/005,767 32: 2020-08-28
54: SPATIALLY-AWARE MULTIMEDIA ROUTER SYTEM AN METHOD
00: -
A spatially-aware multimedia router system includes at least one media server computer configured to receive and analyze incoming data comprising incoming multimedia streams from client devices, and adapt outbound multimedia streams for individual client devices based on the incoming data received from the client devices. The incoming multimedia streams include elements from within a virtual environment. The outbound multimedia streams are adapted for the individual client devices based on user priority data and spatial orientation data that describes spatial relationships between corresponding user graphical representations and sources of the incoming multimedia streams within the virtual environment.

21: 2021/05603. 22: 2021/08/10. 43: 2024/06/11
51: G05F; H04L
71: TMRW FOUNDATION IP SARL
72: YERLI, Cevat
33: US 31: 17/006,327 32: 2020-08-28
33: US 31: 17/160,209 32: 2021-01-27
54: SPATIAL VIDEO-BASED PRESENCE
00: -
A system enabling interactions in virtual environments comprises one or more cloud server computers comprising at least one processor and memory storing data and instructions implementing a virtual environment platform comprising at least one virtual environment; at least one camera obtaining live data feed from a user of a client device; and a client device communicatively connected to the one or more cloud server computers and at least one camera. The system generates a user graphical representation from the live data feed that is inserted into a selected virtual environment and is therein updated, enabling real-time multi-user collaboration and interactions in the virtual environment. Suitable system architectures and methods thereof are also herein disclosed.

21: 2021/07216. 22: 2021/09/27. 43: 2024/04/15
51: B05D; B42D; G06F; G06K; G06Q; H04L; H04W
71: SICPA HOLDING SA
72: DORIER, Jean-Luc, DINOEV, Todor, LOGINOV, Evgeny, FANKHAUSER, Catherine, NICOLOV, Kalin, SUICHIES, Bart, DESPLAND, Claude-Alain, CALLEGARI, Andrea
33: EP(CH) 31: 19160137.6 32: 2019-02-28
54: VERIFIABLE ACCESS CREDENTIAL
00: -
The invention allows using a commodity hardware (e.g. a smartphone, a tablet, a computer…) to automatically establish a high level of assurance authentication and identification of any government-issued identity document of a user (e.g. identity card, driving license, passport…) and link that to digital identity counterpart. Moreover, the invention allows personalizing a material-based security feature provided of said government-issued identity

document to create a link between the identity document and its data content that can be read by such a commodity hardware and serves as reliable credential for accessing a service once the material-based security feature has been authenticated via the commodity hardware and a signature of the identity data of the user has been authenticated by a server of an authority.



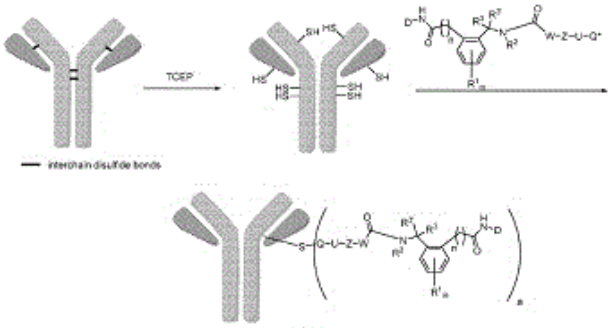
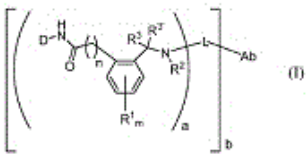
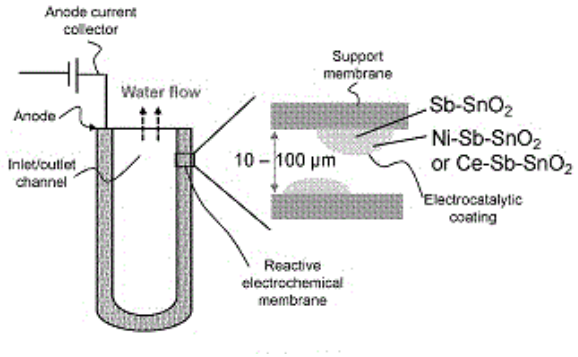


FIG. 1

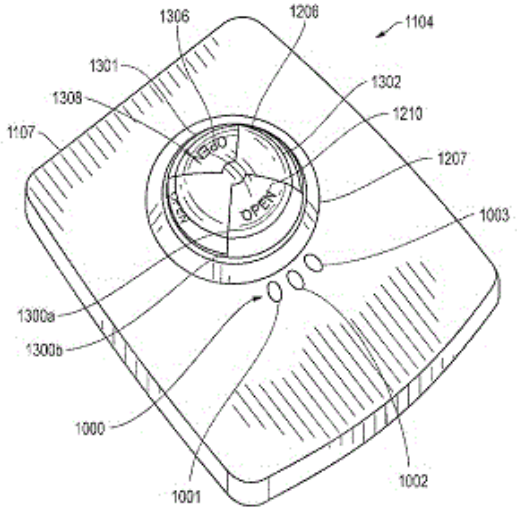


21: 2021/08534. 22: 2021/11/02. 43: 2024/04/26
51: A61K; C07F; C07H; C07K; A61P
71: TAKEDA PHARMACEUTICAL COMPANY LIMITED
72: DYLAN BRADLEY ENGLAND, STEVE P LANGSTON, HONG MYUNG LEE, LITING MA, ZHAN SHI, STEPAN VYSKOCIL, JIANING WANG, HE XU, YUTAKA NISHIMOTO, YUMIKO ISHII
33: US 31: 62/846,494 32: 2019-05-10
33: US 31: 62/855,367 32: 2019-05-31
33: US 31: 62/952,768 32: 2019-12-23
33: US 31: 63/016,682 32: 2020-04-28
54: ANTIBODY DRUG CONJUGATES
00: -
The present disclosure provides antibody drug conjugates comprising STING modulators. Also provided are compositions comprising the antibody drug conjugates. The compounds and compositions are useful for stimulating an immune response in a subject in need thereof.

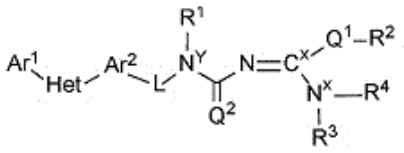
21: 2021/08675. 22: 2021/11/05. 43: 2024/04/26
51: B01D; C02F
71: CALIFORNIA INSTITUTE OF TECHNOLOGY, CLARKSON UNIVERSITY
72: YANG YANG, MICHAEL R HOFFMANN
33: US 31: 62/866,448 32: 2019-06-25
33: US 31: 62/866,459 32: 2019-06-25
54: REACTIVE ELECTROCHEMICAL MEMBRANE FOR WASTEWATER TREATMENT
00: -
Aspects of the invention include a porous and water-permeable electrode for electrocatalysis comprising: a porous and water-permeable reactive electrochemical membrane ("REM") comprising: a porous and water-permeable support membrane; wherein the support membrane comprises a titanium metal; and an electrocatalytic coating on at least a portion of the metal support membrane, the electrocatalytic coating being a tin oxide bilayer comprising: a first layer adjacent to and directly contacting the metal support membrane; wherein the first layer comprises tin oxide doped with antimony; and a second layer adjacent to and directly contacting the first layer; wherein the second layer forms a surface of the REM such that the second layer is in direct contact with an aqueous solution when the REM is in contact with the aqueous solution; wherein the second layer comprises tin oxide doped with antimony and nickel or cerium. Preferably, the support membrane is formed of a titanium metal.



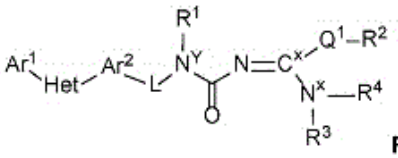
21: 2021/09072. 22: 2021/11/15. 43: 2024/04/22
51: F16K; H01H
71: BRAY INTERNATIONAL, INC.
72: CRAIG BROWN, DAN WALKER, JAMES F SCHMIDT
33: US 31: 16/390,822 32: 2019-04-22
54: VALVE POSITION INDICATOR WITH LEDS
00: -
The disclosure relates to a valve having: an actuator; a valve position indicator coupled to the actuator, wherein the valve position indicator includes: an indicator cover mounted over an indicator mounting surface, wherein the indicator mounting surface has a rim; a plurality of LED lights arranged on the indicator mounting surface, wherein the LED lights are bordering the rim of the indicator cover; and a sensor in communicative connection with the actuator and the plurality of LED lights, wherein the sensor is configured to communicate the position of the valve to the plurality of LED lights.



21: 2021/09261. 22: 2021/11/18. 43: 2024/04/26
51: A01N; C07D
71: CORTEVA AGRISCIENCE LLC
72: NATALIE C GIAMPIETRO, DAVID A DEMETER, ABDALLAH BACHIR DIAGNE, KENNETH VIRGEL N ESGUERRA, RONALD J HEEMSTRA, RYAN AARON SCHULDT, THOMAS J BARTON, LINDSEY G HORTY, THOMAS C. SPARKS, GERALD B WATSON
33: US 31: 62/875,079 32: 2019-07-17
54: MOLECULES HAVING CERTAIN PESTICIDAL UTILITIES, AND INTERMEDIATES, COMPOSITIONS, AND PROCESSES RELATED THERETO
00: -
This disclosure relates to compounds having pesticidal utility against pests in phyla Nematoda, Arthropoda, and/or Mollusca, processes to produce such compounds and intermediates used in such processes, compositions containing such compounds, and processes of using such compounds against such pests. These compounds/molecules may be used, for example, as nematicides, acaricides, insecticides, miticides, and/or molluscicides. This document discloses compounds having the following formula (Formula One and/or Formula One-A).



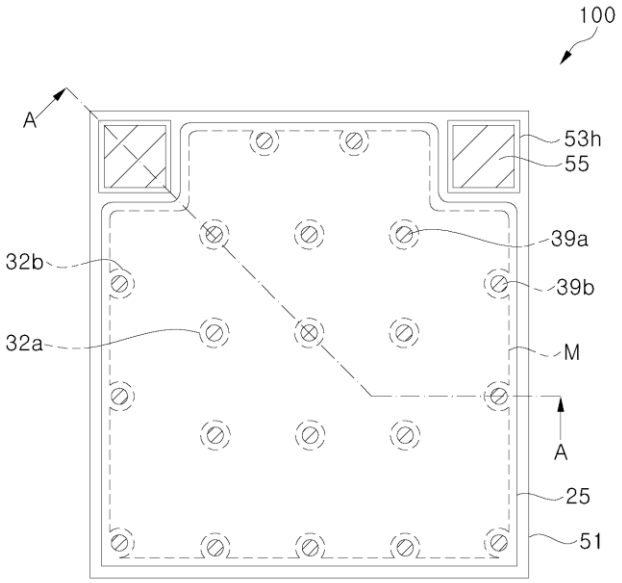
Formula One



Formula One-A

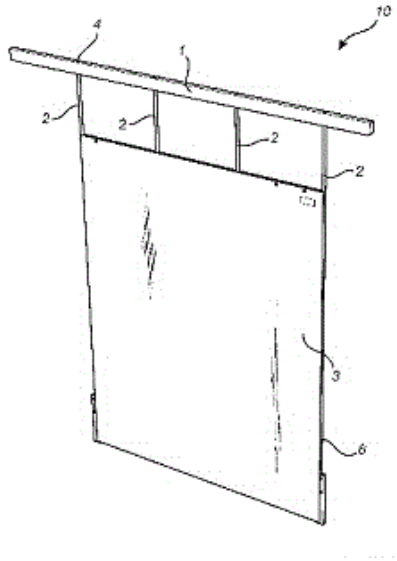
21: 2021/09578. 22: 2021/11/25. 43: 2024/06/03
51: H01L
71: SEOUL VIOSYS CO., LTD.
72: LEE, Joon Hee
33: KR 31: 10-2019-0064076 32: 2019-05-30
54: VERTICAL LIGHT-EMITTING DIODE
00: -

A light-emitting diode according to one embodiment comprises: a first conductive semiconductor layer; an upper insulating layer positioned on the first conductive semiconductor layer; a mesa, which comprises an active layer and a second conductive semiconductor layer, is positioned under a certain region of the first conductive semiconductor layer so as to expose the edge of the first conductive semiconductor layer, and comprises first and second through holes through which the first conductive semiconductor layer is exposed; a first electrode comprising first contact parts electrically connected to the first conductive semiconductor layer through the first through holes and second contact parts electrically connected to the first conductive semiconductor layer through the second through holes; a second electrode electrically connected to the second conductive semiconductor layer; and at least one upper electrode pad connected to the second electrode, wherein the first through holes are arranged in a region encompassed by the edge of the mesa, the second through holes are arranged along the edge of the mesa so that some of the second through holes are encompassed by the active layer and the second conductive semiconductor layer, respectively, and the upper insulating layer comprises a plurality of material layers.

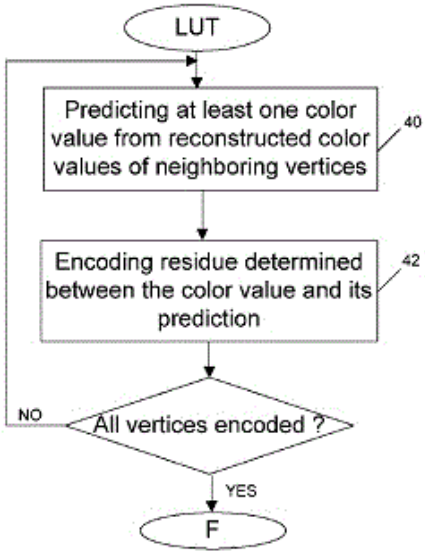


21: 2021/09592. 22: 2021/11/25. 43: 2024/04/26
51: C25C
71: PERMASCAND AKTIEBOLAG
72: ERIK ZIMMERMAN, CHRISTIAN ALMROTH, JOHN GUSTAVSSON, PER MAGNUS SJÖDELL
33: EP 31: 19177920.6 32: 2019-06-03
54: ELECTRODE ASSEMBLY FOR ELECTROCHEMICAL PROCESSES AND METHOD OF RESTORING THE SAME
00: -

The invention relates to an electrode assembly (10) for an electrochemical process comprising a current supply element (1) comprising at least one recessed hole (4); at least one current distribution bar (2) comprising a first end portion (5) and a second end portion (6), the first end portion being releasably arranged at the at least one recessed hole; and an electrode substrate (3) arranged at the at least one current distribution bar. The current distribution bar comprises a core (7) and an outer layer (8), the core being completely covered by the outer layer. The invention also relates to a method of restoring the electrode substrate of the electrode assembly without removing the electrode substrate from the at least one current distribution bar.



21: 2021/09771. 22: 2021/11/30. 43: 2024/04/26
51: H04N
71: DOLBY INTERNATIONAL AB
72: PHILIPPE BORDES, PIERRE ANDRIVON, EMMANUEL JOLLY
33: EP 31: 13305453.6 32: 2013-04-08
33: EP 31: 13306010.3 32: 2013-07-15
33: EP 31: 14305109.2 32: 2014-01-27
54: METHOD FOR ENCODING AND METHOD FOR DECODING A LUT AND CORRESPONDING DEVICES
00: -
A method for encoding a LUT defined as a lattice of vertices is disclosed. At least one value is associated with each vertex of the lattice. The method comprises for a current vertex: predicting the at least one value associated with said current vertex from another value which is for example obtained from reconstructed values associated with neighboring vertices; and encoding in a bitstream at least one residue computed between the at least one value of the current vertex and its prediction in a bitstream.

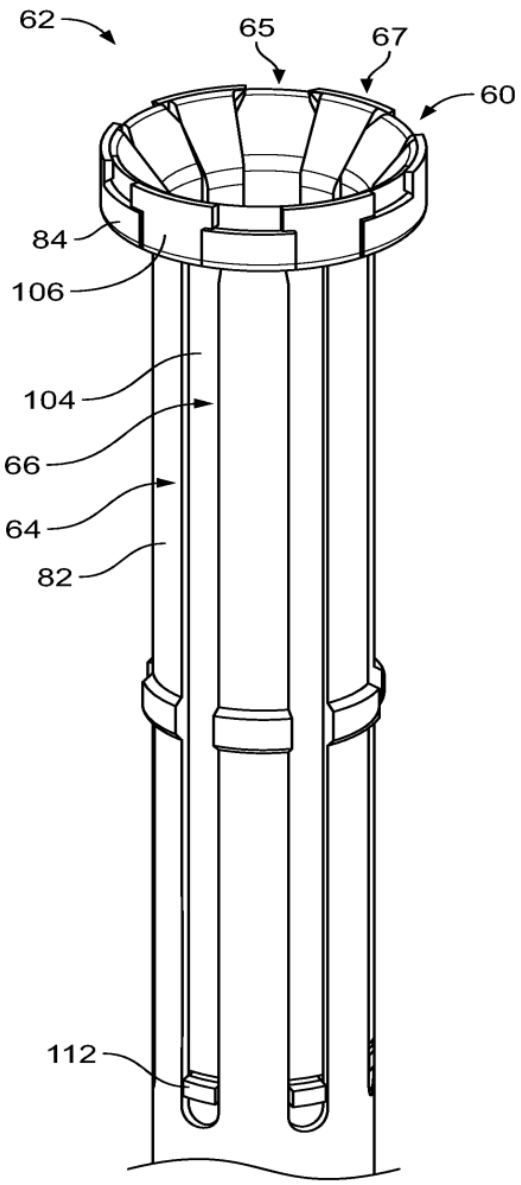


21: 2021/10685. 22: 2021/12/20. 43: 2024/04/08
51: A61K; A61P
71: KalVista Pharmaceuticals Limited
72: FEENER, Edward Paul, MARSH, Sally Louise, MAETZEL, Andreas, SMITH, Michael David, YEA, Christopher Martyn
33: US 31: 62/861,725 32: 2019-06-14
54: TREATMENTS OF HEREDITARY ANGIOEDEMA
00: -
The present invention relates to treatments of hereditary angioedema (HAE). In particular, the present invention provides on-demand treatments of hereditary angioedema (HAE) by orally administering a plasma kallikrein inhibitor to a patient in need thereof on-demand. Regular (or continuous) treatments of HAE are also provided.

21: 2022/00660. 22: 2022/01/13. 43: 2024/05/02
51: C07D
71: SUMMIT (OXFORD) LIMITED
72: WILSON, Francis Xavier, CARNIAUX, Jean-Francois, ADAMS, Nigel
33: GB 31: 1910250.8 32: 2019-07-17
33: GB 31: 1912144.1 32: 2019-08-23
54: PROCESS FOR THE PREPARATION OF RIDINILAZOLE AND CRYSTALLINE FORMS THEREOF
00: -
Described are processes for the preparation of 2,2'-di(pyridin-4-yl)-1H,1'H-5,5'- bibenzo[d]imidazole (which may also be known as 5,5'bis-[2-(4-pyridinyl)-1H- benzimidazole]), referenced herein by the INN

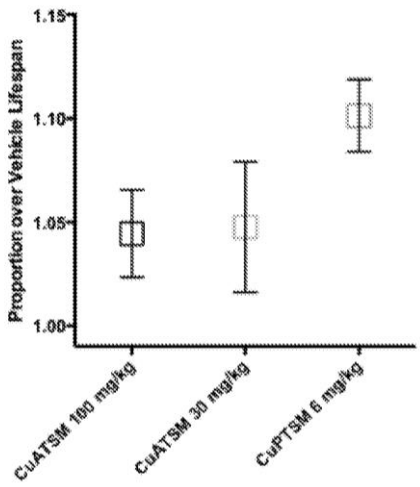
name ridinilazole, and pharmaceutically acceptable derivatives, salts, hydrates, solvates, complexes, bioisosteres, metabolites or prodrugs thereof. The invention also relates to various compositions of purified ridinilazole, to various crystalline forms of ridinilazole, to processes for their preparation and to related pharmaceutical preparations and uses thereof (including their medical use and their use in the efficient large-scale synthesis of ridinilazole).

21: 2022/00963. 22: 2022/01/20. 43: 2024/05/08
51: G21C
71: FRAMATOME INC.
72: MELCHER, Ryan Stephen, BAIER, Joseph Gallagher, SPENCER, James Andrew
54: METHOD AND DEVICE FOR REPLACING SLEEVES LINING NUCLEAR REACTOR PRESSURE VESSEL TUBES FROM THE LOWER END
00: -
A method for replacing a damaged sleeve (26) lining a tube (36) passing through a nuclear reactor pressure vessel (10) is provided. The damaged sleeve has an end including a radially enlarged end portion (48) configured for resting on a support section (44) of the tube for retaining the damaged sleeve in the tube. The method includes removing the damaged sleeve from the tube; providing a sleeve assembly (62) including a first sleeve (64) with a radially variable end configured for being deformed between a radially contracted configuration and a radially expanded configuration and a retainer (66) configured for being deformed between an installation configuration and a retention configuration; installing the sleeve assembly in the tube such that the radially variable end of the first sleeve is received by the support section, the radially variable end being in the radially contracted configuration during installation and being in the radially expanded configuration after the sleeve assembly is installed in the tube; and deforming the retainer from the installation configuration to the retention configuration to retain the radially variable end of the first sleeve in the radially expanded configuration.



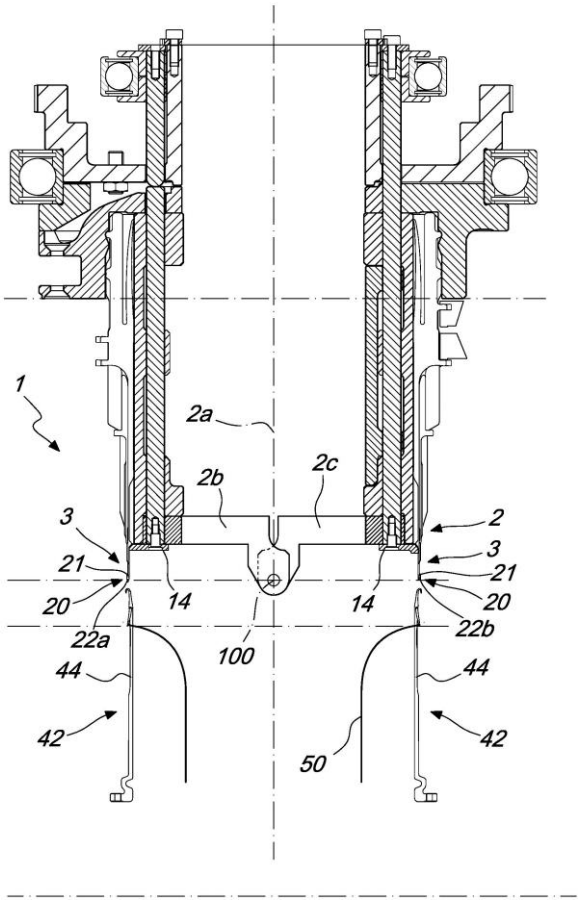
21: 2022/01155. 22: 2022/01/25. 43: 2024/05/08
51: A61K
71: ALS THERAPY DEVELOPMENT INSTITUTE
72: PERRIN, Steven, VIEIRA, Fernando G., GILL, Alan, HATZIPETROS, Theo, DENTON, Kyle, LUKASHEV, Matvey
33: US 31: 62/878,581 32: 2019-07-25
54: CUPTSM FOR THE TREATMENT OF NEURODEGENERATIVE DISORDERS
00: -
The present disclosure relates to the use of CuPTSM in methods and compositions for treating subjects with a neurodegenerative disease. Subjects

with a neurodegenerative disease can have, e.g., amyotrophic lateral sclerosis (ALS).



21: 2022/01322. 22: 2022/01/27. 43: 2024/05/02
51: A61K
71: VERONA PHARMA PLC
72: SPARGO, Peter Lionel, FRENCH, Edward James
33: GB 31: 1911517.9 32: 2019-08-12
54: PHARMACEUTICAL COMPOSITION COMPRISING ENSIFENTRINE
00: -
The present invention relates to a dry powder pharmaceutical composition suitable for administration by inhalation comprising: (i) ensifentrine particles; (ii) coarse lactose particles having a Dv50 of from 40 µm to 80 µm; and (iii) fine lactose particles having a Dv50 of from 5 µm to 10 µm, wherein: the fine lactose particles are present in an amount of from 0.1 wt% to 6.0 wt% relative to the total weight to the dry powder pharmaceutical composition. Also provided is a dry powder inhaler comprising the dry powder pharmaceutical composition and medical use of the dry powder pharmaceutical composition.

21: 2022/01423. 22: 2022/01/31. 43: 2024/04/04
51: D04B
71: Lonati S.p.A.
72: LONATI, Ettore, LONATI, Fausto, LONATI, Francesco
33: IT 31: 102019000023577 32: 2019-12-11
54: REMOVAL DEVICE FOR REMOVING A TUBULAR KNITTED MANUFACTURE FROM A CIRCULAR KNITTING MACHINE FOR HOSIERY OR THE LIKE
00: -
A removal device (1) for removing a tubular knitted manufacture (50) from a circular knitting machine for hosiery or the like, comprising an annular removal body (2) which supports a plurality of removal members (3) arranged around the axis (2a) of the removal body (2), which is arrangeable coaxially around the needle cylinder (42) of a circular knitting machine for hosiery or the like with each one of the removal members (3) arranged so as to correspond to a respective needle (44) of the machine; the removal members (3) are supported by first and second annular portions (2b, 2c), which can move by rotation with respect to each other about an oscillation axis (100) that is substantially perpendicular to the axis (2a) of the removal device in order to pass between a removal condition, in which they are arranged so as to form a circumference that is coaxial with the axis (2a) of the removal device, and a sewing condition, in which the annular portions (2b, 2c) are arranged so as to face each other, the removal members (3) forming a respective removal head (20) which can move on command along a removal trajectory which has a component that is parallel to the axis (2a) of the removal body (2) and at least one radial component away from the axis (2a); the removal head (20) comprises a wider portion (21) designed to penetrate within the respective loop of knitting.



21: 2022/01424. 22: 2022/01/31. 43: 2024/04/04
51: H04N
71: QUALCOMM Incorporated
72: SEREGIN, Vadim, COBAN, Muhammed Zeyd
33: US 31: 62/872,225 32: 2019-07-09
54: REFERENCE PICTURE RESAMPLING WITH SWITCHABLE FILTERS
00: -
Techniques are described for video encoding and decoding using reference picture resampling with switchable filters. One example involves obtaining a current picture and a reference picture, identifying filter index information for a current block of the current picture, and determining that a first picture size value of the current picture and a second picture size value of the reference picture are different. Based on the determining that the first picture size value of the current picture and the second picture size value of the reference picture are different, performing a resampling process using a default filter index in place of a current filter index identified by the filter index information. Additional examples can use the current filter index identified by the filter index information in subsequent blocks. In various examples, the current filter index can be derived or signaled.

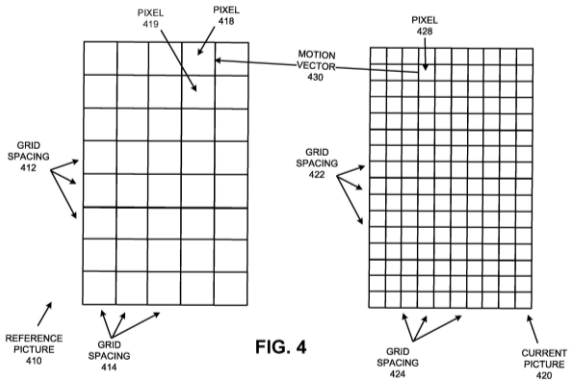
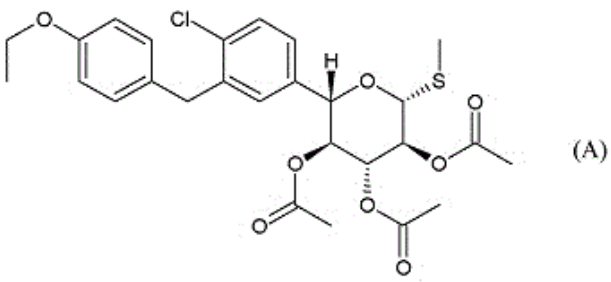


FIG. 4

21: 2022/01469. 22: 2022/02/01. 43: 2024/04/02
51: C07H; A61P
71: LEXICON PHARMACEUTICALS, INC.
72: BRUNO BUREL, JÉROME CEZERAC, STÉPHANE DUTHEIL, MARTIAL ETIENNE, RICHARD FLACHER, ANTONIO NOBREGA
33: EP 31: 19305998.7 32: 2019-08-01
54: CONTINUOUS PROCESS FOR PREPARING THE CRYSTALLINE FORM II OF SOTAGLIFLOZIN
00: -
The present document relates to a process for the preparation of the crystalline form II of sotagliflozin from compound of formula (A), said process being continuously performed and comprising at least the steps of: a) performing in a reaction chamber the reaction of said compound of formula (A) in solution in toluene or in xylene or in mixture thereof, and preferably in toluene, and at least sodium methoxide and methanol, at a temperature below the boiling point of methanol, to form sotagliflozin in mixture with sodium salts; b) conducting in a crystallization chamber the crystallization of sotagliflozin formed in step a), in a non-aqueous solvent medium including at least toluene, or xylene or mixture thereof, and free of sodium salts, at a temperature of crystallization of the form II of sotagliflozin; and c) isolating the crystalline form II of sotagliflozin.

21: 2022/01470. 22: 2022/02/01. 43: 2024/04/08
51: C07H; A61P
71: LEXICON PHARMACEUTICALS, INC.
72: BRUNO BUREL, JÉROME CEZERAC, STÉPHANE DUTHEIL, MARTIAL ETIENNE, RICHARD FLACHER, ANTONIO NOBREGA

33: EP 31: 19305999.5 32: 2019-08-01
54: PROCESS FOR PREPARING THE CRYSTALLINE FORM II OF SOTAGLIFLOZIN
00: -
The present document relates to a process for the preparation of the crystalline form II of sotagliflozin, wherein said crystalline form II of sotagliflozin is directly obtained from the following compound of formula (A) and by using toluene or xylene or mixture thereof as solvent medium for the crystallization.



(A)

21: 2022/01572. 22: 2022/02/04. 43: 2024/04/09
51: B21B; C22C; C22F
71: NOVELIS KOBLENZ GMBH
72: PHILIPPE MEYER
33: EP 31: 19190299.8 32: 2019-08-06
54: COMPACT ALUMINIUM ALLOY HEAT TREATMENT METHOD
00: -
The invention relates to a method for the heat treatment of a moving aluminium alloy strip, the aluminium strip has an upper-surface and a lower-surface, the method comprising moving the aluminium strip over at least two rotating heating rolls, wherein the heating rolls comprises an outer-surface, such that a surface of the aluminium strip is in heat-transfer contact with the outer-surface of the heating rolls to induce heat into the aluminium strip to heat the aluminium strip at an annealing temperature, and comprising moving the aluminium alloy strip over a first rotating heating roll followed by moving the aluminium strip over a second rotating heating roll such that alternating the upper-surface and the lower-surface of the aluminium strip are in heat-transfer contact with the outer-surface of the rotating heating rolls.

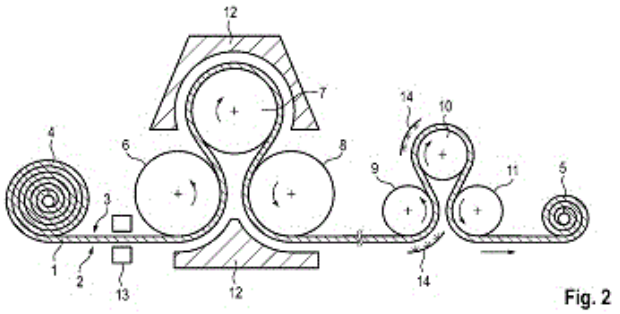


Fig. 2

21: 2022/01610. 22: 2022/02/07. 43: 2024/05/08
51: A61K; A61P
71: NFL BIOSCIENCES
72: LAFONT, Bruno
33: FR 31: 1653079 32: 2016-04-07
54: TOBACCO LEAF EXTRACT AND USE THEREOF FOR THE TREATMENT OF TOBACCO ADDICTION
00: -
The invention relates to a tobacco leaf extract containing, relative to the total weight of the extract, at least 5 wt.-% proteins essentially free of molecules with a molecular mass of less than 10 kDa. The invention also relates to a pharmaceutical composition containing such an extract and to the use thereof in the treatment of tobacco addiction.

21: 2022/01797. 22: 2022/02/10. 43: 2024/04/02
51: H02K
71: CR FLIGHT L.L.C.
72: RANDELL J WISHART, JONATHAN D EMIGH, JASON EMIGH, RAY PORTER
33: US 31: 62/893,293 32: 2019-08-29
33: US 31: 62/893,290 32: 2019-08-29
33: US 31: 62/993,594 32: 2020-03-23
54: COUNTER-ROTATING DIFFERENTIAL ELECTRIC MOTOR ASSEMBLY
00: -
An improved counter-rotating (CR) differential electric motor assembly is utilized to power an aircraft vehicle or fan for moving a gas and includes two oppositely rotating propellers that may be mounted to horizontal flight and vertical lift-off aircraft or a fan housing in spaces similar in size to mounting spaces for traditional motors having only one propeller and includes a hollow central shaft and slip ring assembly that is mounted either within, slight above, or total above oppositely rotating components and around the hollow central shaft.

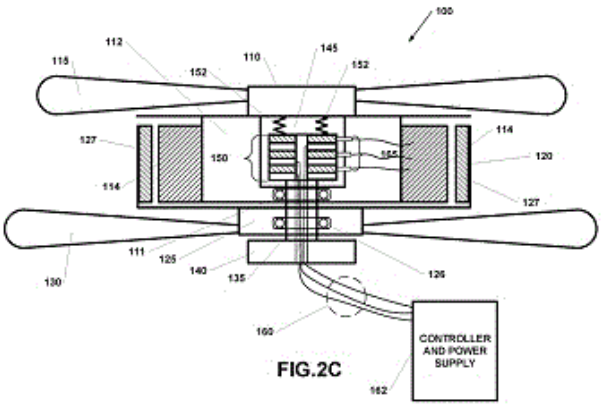


FIG.2C

21: 2022/01891. 22: 2022/02/14. 43: 2024/04/02
51: B01J; C01C; C07C
71: HALDOR TOPSØE A/S
72: PETER MØLGAARD MORTENSEN, KASPER EMIL LARSEN, KIM AASBERG-PETERSEN, ROBERT KLEIN
33: DK 31: PA 2019 01150 32: 2019-10-01
33: DK 31: PA 2019 01433 32: 2019-12-06
54: CYANIDE ON DEMAND
00: -
A reactor system and a process for carrying out the reaction of a feed gas comprising an alkane such as methane, and ammonia to hydrogen cyanide and/or a nitrile are provided, where the heat for the endothermic reaction is provided by resistance heating. In particular, the reaction is the BMA (Blausäure aus Methan und Ammoniak) reaction.

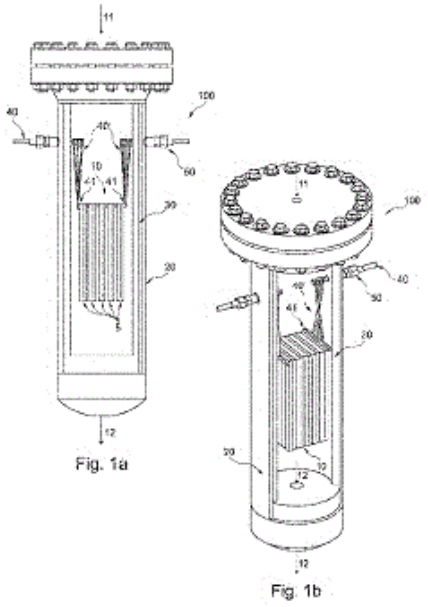
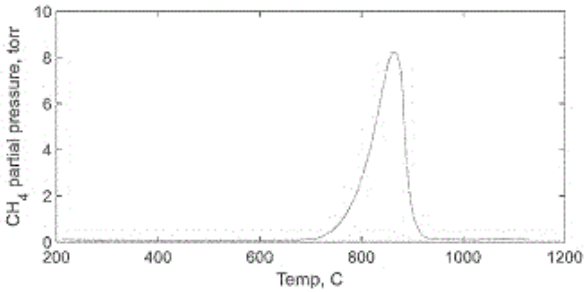


Fig. 1a

Fig. 1b

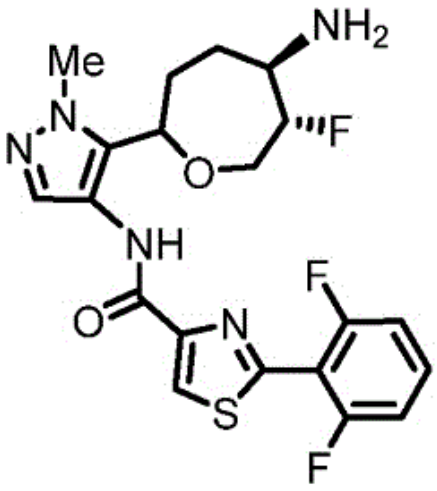
21: 2022/01953. 22: 2022/02/15. 43: 2024/04/02
51: C04B
71: CALIFORNIA INSTITUTE OF TECHNOLOGY, BRIMSTONE ENERGY INC.
72: CODY E FINKE, HUGO F LEANDRI
33: US 31: 62/886,137 32: 2019-08-13
33: US 31: 62/913,620 32: 2019-10-10
33: US 31: 62/932,200 32: 2019-11-07
33: US 31: 63/019,916 32: 2020-05-04
54: PROCESS TO MAKE CALCIUM OXIDE OR ORDINARY PORTLAND CEMENT FROM CALCIUM BEARING ROCKS AND MINERALS
00: -
Aspects of the invention include a method of producing a cement material comprising step of: first reacting a calcium-bearing starting material with a first acid to produce an aqueous first calcium salt; second reacting the aqueous first calcium salt with a second acid to produce a solid second calcium salt; wherein the second acid is different from the first acid and the second calcium salt is different from the first calcium salt; and thermally treating the second calcium salt to produce a first cement material. Preferably, but not necessarily, during the second reacting step, reaction between the first calcium salt and the second acid regenerates the first acid.



21: 2022/01974. 22: 2022/02/16. 43: 2024/04/03
51: A23L; A61K; A61M; C12N
71: ALCRESTA THERAPEUTICS, INC.
72: ERIC FIRST, DAVID BROWN, ALBERT ARCHIE STONE
33: US 31: 62/556,700 32: 2017-09-11
33: US 31: 62/643,394 32: 2018-03-15
33: US 31: 16/123,712 32: 2018-09-06
54: DEVICES AND METHODS FOR THE PREPARATION OF A NUTRITIONAL FORMULA
00: -
Exemplary embodiments of the disclosure may be drawn to a device having an inlet and a chamber. Immobilized lipase, immobilized protease, and immobilized amylase may be contained within the chamber. The device may also include an outlet, wherein a flow path extends from the inlet, through the chamber, and to the outlet.

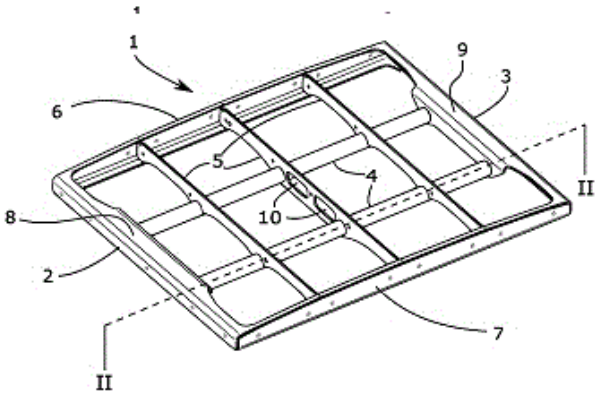
21: 2022/02127. 22: 2022/02/18. 43: 2024/04/03
51: A61K; C12N
71: Legend Biotech Ireland Limited
72: XIAOHU FAN, YUNCHENG ZHAO, BING WANG, DAWEI YU, XIN HUANG, PINGYAN WANG, QIUCHUAN ZHUANG
33: CN 31: PCT/CN2019/103041 32: 2019-08-28
33: CN 31: PCT/CN2019/125681 32: 2019-12-16
54: NEF-CONTAINING T CELLS AND METHODS OF PRODUCING THEREOF
00: -
A modified T cell comprises: i) an exogenous Negative Regulatory Factor (Nef) protein; and ii) a functional exogenous receptor comprising: (a) an extracellular ligand binding domain, (b) a transmembrane domain, and (c) an intracellular signaling domain (ISD) comprising a chimeric signaling domain (CMSD), wherein the CMSD comprises one or a plurality of Immune-receptor Tyrosine-based Activation Motifs (ITAMs), wherein the plurality of CMSD ITAMs are optionally connected by one or more linkers. Provided are also Nef proteins (e.g., non- naturally occurring Nef), and modified T cells comprising such Nef proteins. Provided are methods of making and uses thereof.

21: 2022/02178. 22: 2022/02/21. 43: 2024/04/02
51: A61K; C07D; A61P
71: F. HOFFMANN-LA ROCHE AG
72: FRANCIS GOSSELIN, ANDREW MCCLORY, ZHIGANG CHENG
33: US 31: 62/898,861 32: 2019-09-11
33: US 31: 62/934,382 32: 2019-11-12
54: PROCESS FOR THE PREPARATION OF A MEDICAMENT CONTAINING AN OXEPANE RING
00: -
A process for the manufacture N-(5-((5R,6S)-5-amino-6-fluorooxepan-2-yl)-1-methyl-1H-pyrazol-4-yl)-2-(2,6-difluorophenyl)thiazole-4-carboxamide (I) is claimed.



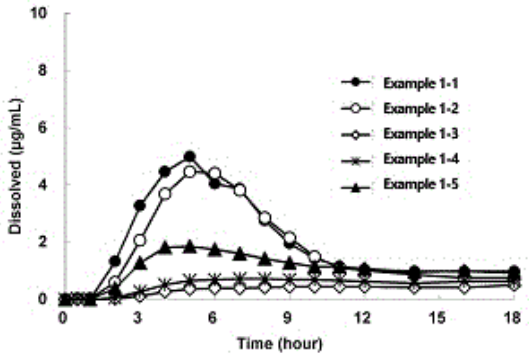
1

21: 2022/02179. 22: 2022/02/21. 43: 2024/04/02
51: B07B
71: METSO OUTOTEC FINLAND OY
72: TIMO LEINONEN
33: EP 31: 19193866.1 32: 2019-08-27
54: SCREENING DEVICE
00: -
Modular screen support deck (1) comprising first (2) and second (3) deck sides extending in parallel with each other defining a deck plane between the two deck sides. Further, a first extension structure (8) connected to the first deck side is provided, the first extension structure extending inwardly from the first deck side and comprising a first connection structure, the first connection structure being arranged a distance from the first deck side and a second extension structure (9) connected to the second deck side is provided, the second extension structure extending inwardly from the second deck side and comprising a second connection structure, the second connection structure being arranged a distance from the second deck side. The support deck further comprises a first cross-member (4) with a first end connected to the first connection structure and a second connected to the second connection structure.

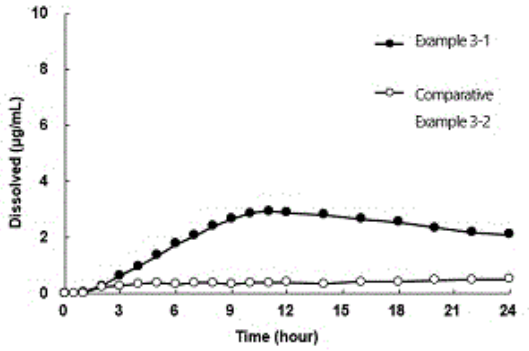


21: 2022/02245. 22: 2022/02/22. 43: 2024/04/02
51: A61K; C07D; A61P
71: B.C.I. PHARMA
72: CLAIRE AMIABLE, DOMINIQUE SURLERAUX, FRANÇOIS-XAVIER DIEUDONNÉ, THIERRY LOUAT, SABRINA DEROO, REMI GUILLON
33: EP 31: 19190898.7 32: 2019-08-08
54: QUINOLINE DERIVATIVES AS PROTEIN KINASE INHIBITORS
00: -
The present invention relates to a compound suitable for use as a kinase inhibitor.

21: 2022/02319. 22: 2022/02/23. 43: 2024/04/04
51: A61K
71: OTSUKA PHARMACEUTICAL CO., LTD.
72: MOTOYASU YOSHIMURA, TAKUYA FUJII, NAOKI KAMADA, RYOHEI TOGASHI, RYUTA AONO, XINYU WANG
33: JP 31: PCT/JP2019/031895 32: 2019-08-13
54: ORAL PHARMACEUTICAL COMPOSITION
00: -
Provided is a means that can prevent the initial excessive release of an active ingredient and sustainedly release said active ingredient in a therapeutically effective amount over a long period of time.

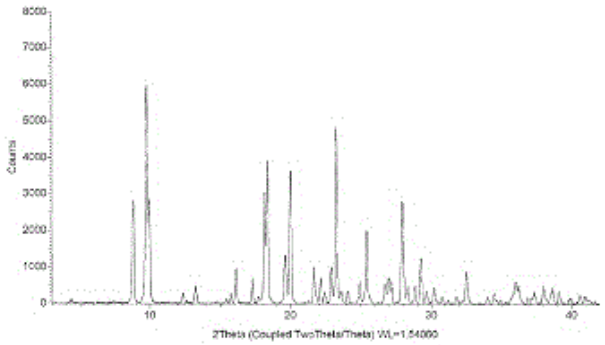


21: 2022/02320. 22: 2022/02/23. 43: 2024/04/04
51: A61K
71: OTSUKA PHARMACEUTICAL CO., LTD.
72: MOTOYASU YOSHIMURA, TAKUYA FUJII, NAOKI KAMADA, RYOHEI TOGASHI, RYUTA AONO, XINYU WANG
33: JP 31: PCT/JP2019/031895 32: 2019-08-13
54: ORAL PHARMACEUTICAL COMPOSITION CONTAINING HETEROCYCLIC COMPOUND
00: -
The present invention provides a means that can prevent excessive release of an active ingredient at an initial stage and that is capable of releasing the active ingredient in a sustained manner over a long period of time at a therapeutic effective dose.



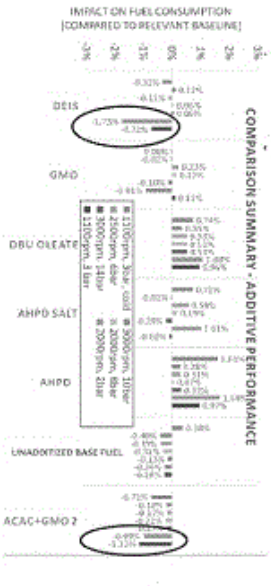
21: 2022/02325. 22: 2022/02/23. 43: 2024/04/04
51: A61K; C07D; A61P
71: PFIZER INC.
72: ELAINE GREER, STEPHEN ANDERSON, MARK MALONEY, SHU YU, EKATERINA ALBERT, EMILY RIGSBEE
54: SOLID STATE FORMS OF (S)-2-(((S)-6,8-DIFLUORO-1,2,3,4-TETRAHYDRONAPHTHALEN-2-YL)AMINO)-N-(1-(2-METHYL-1-(NEOPENTYLAMINO)PROPAN-2-YL)-1H-IMIDAZOL-4-YL)PENTANAMIDE AND USES THEREOF

00: -
The present disclosure relates to: a) solid state forms of hydrobromide salts of Compound 1; b) pharmaceutical compositions comprising one or more solid state forms of hydrobromide salts of Compound 1, and, optionally, a pharmaceutically acceptable carrier; c) methods of treating tumors or cancers by administering one or more solid state forms of hydrobromide salts of Compound 1 to a subject in need thereof; and d) methods for the preparation of solid state forms of Compound 1.



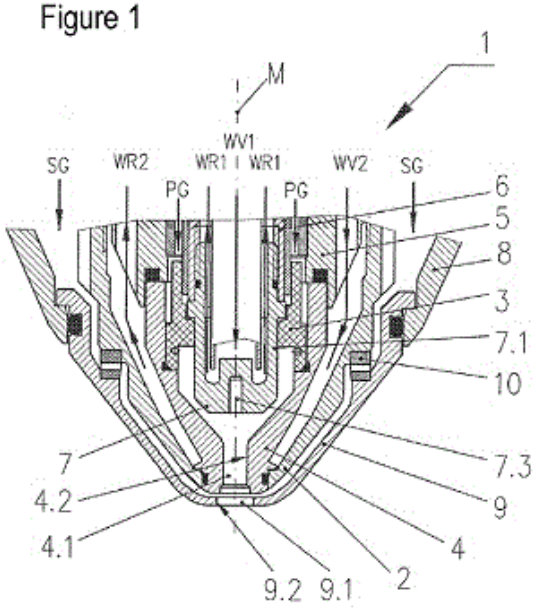
21: 2022/02363. 22: 2022/02/24. 43: 2024/05/24
51: A61K; C07K; A61P
71: BIOND BIOLOGICS LTD.
72: MANDEL, Ilana, PERETZ, Tsuri, HAVES ZIV, Dana, GOLDSHTEIN, Ilana, ALISHEKEVITZ, Dror, FRIDMAN-DROR, Anna, HAKIM, Motti, SHULMAN, Avidor, SAPIR, Yair, BEN-MOSHE, Tehila
33: US 31: 62/885,374 32: 2019-08-12
33: US 31: 63/034,569 32: 2020-06-04
54: ANTIBODIES AGAINST ILT2 AND USE THEREOF
00: -
The present invention provides monoclonal antibodies, or antigen-binding portions thereof, against ILT2, as well as pharmaceutical compositions comprising same and methods of producing same. Also provided are methods of treating cancer comprising administering the antibodies or compositions of the invention. Methods of treating cancer, combination treatments, and patient selection are also provided.

21: 2022/02880. 22: 2022/03/09. 43: 2024/04/18
51: C10L
71: CHEVRON ORONITE COMPANY LLC, CHEVRON U.S.A. INC.
72: RICHARD EUGENE CHERPECK, AMIR GAMAL MARIA, THERESA LIANG GUNAWAN
33: US 31: 62/898,398 32: 2019-09-10
54: REDUCING FRICTION IN COMBUSTION ENGINES THROUGH FUEL ADDITIVES
00: -
Provided is a fuel composition for improving fuel efficiency. The fuel composition includes greater than 50 wt % of a hydrocarbon fuel boiling in the gasoline or diesel range, a minor amount a zinc chelator, and a minor amount of a friction modifier. The friction modifier includes at least one polar group.



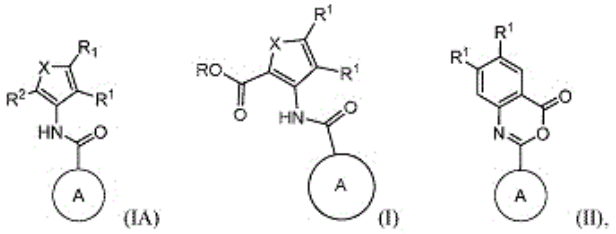
21: 2022/02981. 22: 2022/03/11. 43: 2024/04/18
51: H05H
71: KJELLBERG STIFTUNG
72: VOLKER KRINK, FRANK LAURISCH, RALF-PETER REINKE, KATRIN JEHNERT
33: DE 31: 10 2019 124 521.4 32: 2019-09-12
54: WEAR PART FOR AN ARC TORCH AND PLASMA TORCH, ARC TORCH AND PLASMA TORCH COMPRISING SAME, METHOD FOR PLASMA CUTTING AND METHOD FOR PRODUCING AN ELECTRODE FOR AN ARC TORCH AND PLASMA TORCH
00: -
The invention relates to a wear part for an arc torch, plasma torch or plasma cutting torch, characterised in that the wear part or at least one part or a region of the wear part consists of an alloy formed from silver and zirconium, silver and hafnium, or silver and zirconium and hafnium.

Figure 1



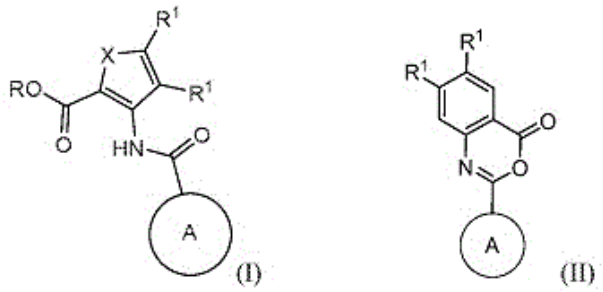
21: 2022/03144. 22: 2022/03/16. 43: 2024/04/17
51: A61K; C07K; C12N
71: UNIVERSITÄT ZÜRICH
72: ULRICH WOLFGANG SILER, JANINE REICHENBACH, WALTHER HÄNSELER
33: EP 31: 19201180.7 32: 2019-10-02
54: TREATMENT OF CHRONIC GRANULOMATOUS DISEASE
00: -
The present invention relates to an isolated human hematopoietic stem cell or progenitor cell, transduced with a lentiviral vector which comprises a coding nucleic acid sequence encoding a functional variant of a polypeptide selected from gp91phox, p22phox, p40phox, p47phox, p67phox and Rac2; under transcriptional control of a promoter sequence that comprises or essentially consists of the miR223 promoter sequence (SEQ ID NO 01).

21: 2022/03202. 22: 2022/03/17. 43: 2024/04/17
51: A61K; C07D; A61P
71: THE SCRIPPS RESEARCH INSTITUTE
72: HANK MICHAEL JAMES PETRASSI, CHENGUANG YU, JIE WANG, ARNAB K CHATTERJEE, ANA MARIA GAMO ALBERO, ANIL GUPTA, JUNKO TAMIYA, PETER G SCHULTZ, KRISTEN JOHNSON, ALAN CHU, EMILY CHIN, LUKE L LAIRSON
33: US 31: 62/889,669 32: 2019-08-21
54: MONOCYCLIC AGONISTS OF STIMULATOR OF INTERFERON GENES STING
00: -
The invention provides compounds having STimulator of INterferon Genes (STING) agonistic bioactivity that can be used in the treatment of tumors in patients afflicted therewith. The compounds are of formula (IA), formula (I), and formula (II): wherein the various substituents are as defined herein. Ring A is a 5- or 6- membered heteroaryl comprising 1, 2, or 3 N atoms, unsubstituted or substituted with 1, 2, or 3 groups as defined herein. Compounds for practice of a method of the invention can be delivered via oral delivery for systemic exposure, as well as delivered intratumorally. Antitumor therapy using a compound of formula (I) can further comprise administration of an effective dose of an immunecheckpoint targeting drug.

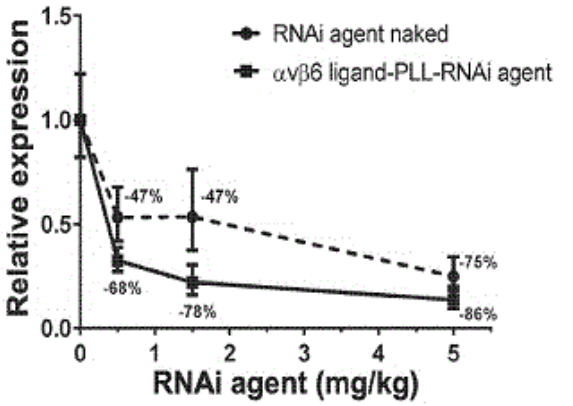


21: 2022/03203. 22: 2022/03/17. 43: 2024/04/17
51: A61K; C07D; A61P
71: THE SCRIPPS RESEARCH INSTITUTE
72: HANK MICHAEL JAMES PETRASSI, CHENGUANG YU, JIE WANG, ARNAB K CHATTERJEE, PETER G SCHULTZ, KRISTEN JOHNSON, ALAN CHU, EMILY CHIN, LUKE L LAIRSON
33: US 31: 62/889,679 32: 2019-08-21
54: BICYCLIC AGONISTS OF STIMULATOR OF INTERFERON GENES STING
00: -
The present disclosure provides compounds having STimulator of INterferon Genes (STING) agonistic bioactivity that can be used in the treatment of tumors in patients afflicted therewith. The compounds are a compound of formula (I) or formula (II): wherein the substituents are as defined herein. Ring A is a bicyclic fully aromatic or partially reduced heteroaryl ring system comprising 3, 4, or 5 N atoms, substituted with 0, 1, 2, 3, or 4 substituents as defined herein. Compounds for practice of a method of the present disclosure can be delivered via oral delivery for systemic exposure, as well as delivered

intratumorally. Antitumor therapy using a compound of formula (I) can further comprise administration of an effective dose of an immune-checkpoint targeting drug.



21: 2022/03240. 22: 2022/03/18. 43: 2024/04/17
51: A61K; C07K; C12N
71: ARROWHEAD PHARMACEUTICALS, INC.
72: AARON ALMEIDA, ZHEN LI, ERIK W BUSH, TAO PEI, ANGIESZKA GLEBOCKA, ANTHONY NICHOLAS, JEFFREY CARLSON, MATTHEW FOWLER-WATTERS
33: US 31: 62/415,752 32: 2016-11-01
54: ALPHA-V BETA-6 INTEGRIN LIGANDS AND USES THEREOF
00: -
Integrin ligands having serum stability and affinity for αvβ6 integrins are described. Compositions comprising αvβ6 integrin ligands having serum stability and having affinity for αvβ6 integrins and methods of using them are also described.

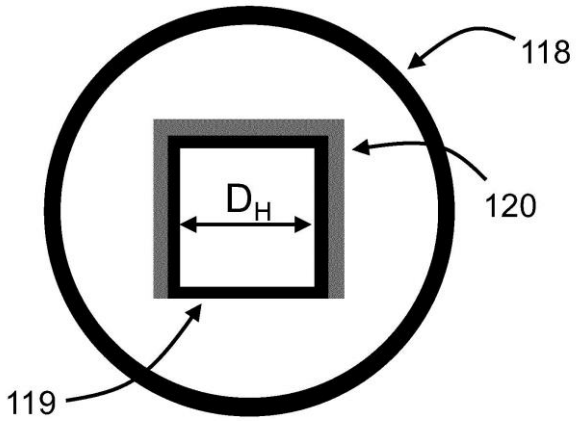


21: 2022/03409. 22: 2022/03/23. 43: 2024/04/26
51: C07H
71: CJ CHEILJEDANG CORPORATION
72: JUNG HWA CHOI, MIN JONG KIM, CHANG YUB OH, HWA YEON LIM, JUN WOO KIM, JAE HUN YU, SEOK HYUN KANG, YU SHIN KIM, IL CHUL KIM
33: KR 31: 10-2019-0129324 32: 2019-10-17
54: METHOD FOR SEPARATING DISODIUM 5'-INOSINATE
00: -
Provided is a method for separating disodium 5'-inosinate from a microorganism culturing medium containing same.

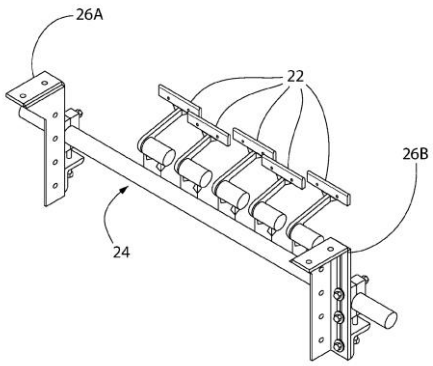
21: 2022/03627. 22: 2022/03/29. 43: 2024/04/18
51: C07K
71: REGENTS OF THE UNIVERSITY OF MINNESOTA
72: JEFFREY S MILLER, MARTIN FELICES, TODD LENVIK, DANIEL A VALLERA
33: US 31: 62/906,660 32: 2019-09-26
54: NK ENGAGER COMPOUNDS THAT BIND VIRAL ANTIGENS AND METHODS OF USE
00: -
This disclosure describes compounds that engage NK cells and methods of using the compounds. Generally, the compound includes an NK engaging domain, a targeting domain that selectively binds to a target cell, and an NK activating domain operably linking the NK engaging domain and the targeting domain. In an illustrative embodiment, the targeting domain selectively binds to an HIV antigen.

21: 2022/03877. 22: 2022/04/05. 43: 2024/04/08
51: F24S
71: Suncom Energy B.V.
72: ARNTZ, Hendrikus Petrus Maria, TRIVELLI, Gianluigi, RAGGI, Claudio
33: US 31: 62/916,022 32: 2019-10-16
54: HEAT RECEIVER FOR URBAN CONCENTRATED SOLAR POWER
00: -
An urban concentrated solar power for mounting on a roof top is provided. The urban concentrated solar power has a heat receiver has a non-circular duct that distinguishes an insulated area with an insulation layer on the outer surface of the non-circular duct and a non- insulated area. The non-circular duct contains a heat transferring fluid which can reach temperatures of at least 500 degrees Celsius. A parabolic trough with an aperture of below 2 meters concentrates sunlight onto the non-insulated area of the non-circular duct of the heat receiver. The heat receiver can be placed in a glass tube. Due to roof top mounting the electricity can be generated in proximity of the user and as a result decrease net congestion. The low-cost heat receiver design will make electricity generated by urban CSP

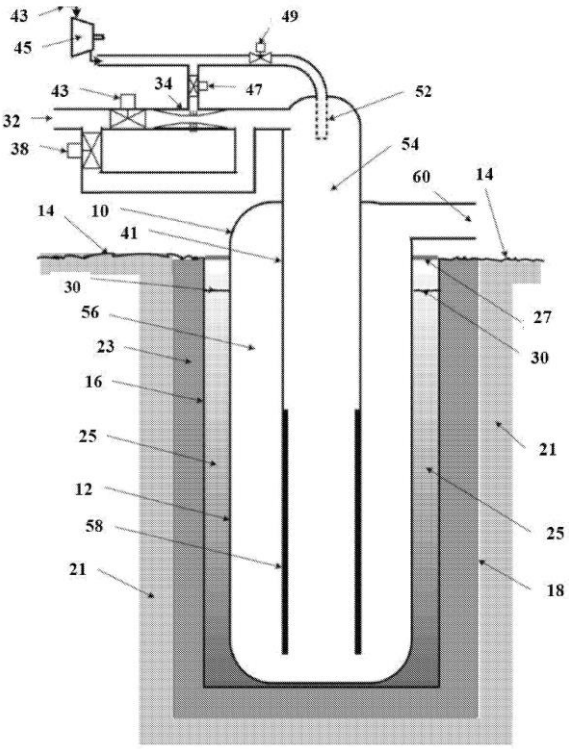
competitive with electricity from fossil fuel plants and PV combined with lithium-ion battery storage.



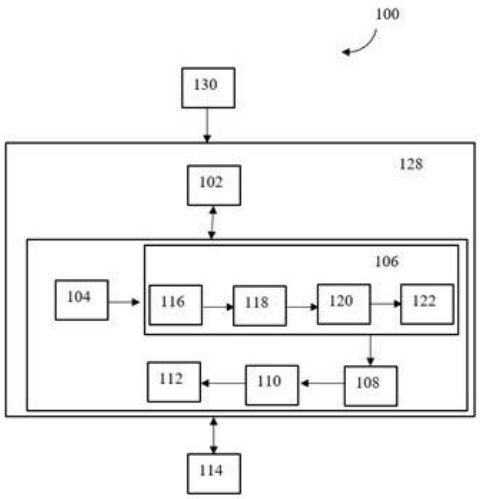
21: 2022/04988. 22: 2022/05/06. 43: 2024/05/08
51: B08B; B65G
71: ASGCO MANUFACTURING, INC.
72: COLLIER, Andrew
33: US 31: 62/936,866 32: 2019-11-18
54: SECONDARY BELT CLEANER WITH MODULAR, TORSIONAL TENSIONED ARM AND REPLACEABLE BLADE TIPS
00: -
A belt cleaner system for cleaning the return side surface of an endless conveyor belt. A plurality of blade devices are rotatably biased against the return side surface using a respective torsion spring therein. Each blade device includes a head portion having a blade support and a replaceable blade tip that is releasably secured to the blade support. The head portion connects to one blade arm end and the other blade arm end couples to a rotatable shaft inside a housing that is fixedly secured to a support shaft having mounting brackets at each end for system mounting transversely to the conveyor belt frame. Adjacent blade devices have different blade arm lengths to implement blade coverage overlap with no gaps in between. The respective torsion springs in adjacent blade devices are pretensioned to different angular amounts for different blade arm lengths and for maintaining blade tip contact to the return side surface.



21: 2022/05343. 22: 2022/05/13. 43: 2024/04/04
51: B01F; B01J; C02F
71: Pennpetro Greentec Limited
72: MOULTON, David S.
33: US 31: 62/914,990 32: 2019-10-14
54: APPARATUS AND METHOD FOR IMPROVING VERTICAL FLOW REACTOR UTILITY
00: -
The present invention is for an improved vertical flow reactor utility that makes the technology more attractive for industrial development. The various embodiments of the invention improve various aspects of a vertical flow reactor utility. For example, in accordance with an embodiment of the invention, the design of the reactor is improved. Other embodiments provide improved systems and methods for, for example, insertion of oxygen, electrical production, and/or reactor geometry. These one or more various embodiments of the present invention lowers costs to construct, install, and/or operate a vertical flow reactor by improving economy of construction and/or operation of VFR systems.



21: 2022/05351. 22: 2022/05/13. 43: 2024/04/04
51: G06F; G06K
71: SINGH Lal Chandra
72: SINGH Lal Chandra, SHALIGRM Saurabh Shrikant, PATIL, Gunendra Vasant
33: IN 31: 202121024643 32: 2021-06-02
54: AN EMOTION PREDICTION SYSTEM USING NAVARASA AND A METHOD THEREOF
00: -
AN EMOTION PREDICTION SYSTEM USING NAVARASA AND A METHOD THEREOF The present disclosure relates to an emotion prediction system. The emotion prediction system (100) using navarasa comprises a pre-training unit (130) configured to store a first set of input, and further configured to create labeled data sets for at least one emotion out of navarasa based on the input; a training unit (128) configured to process the input, convert the input into a set of data, analysis of the data, identify and predict the emotion based on Neural Network rules, and repeatedly checking for accuracy of the emotion; and a prediction unit (124) configured to create a prediction model to predict a correct emotion based on training from the training unit (128). The system (100) facilitates emotional analysis and gives concrete base for data capturing to train model.



21: 2022/05373. 22: 2022/05/16. 43: 2024/04/04
51: A61K
71: L'OREAL SA
72: HENRI SAMAIN, SIMON DONCK, KWEZIKAZI MOLAMODI
54: METHOD FOR EVALUATING HAIR FIBERS
00: -
Method for evaluating hair fibers, comprising (a) Making a first measurement of a first value representative of a mechanical strength of the hair fibers, (b) Making a second measurement of a second value representative of a combability of the hair fibers, (c) Generating a score representative of a risk of breakage of the hair fibers during combing based at least on said first and second measurements.

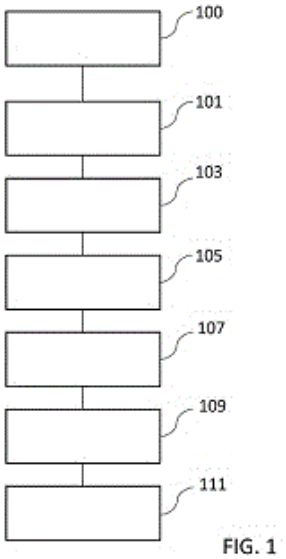
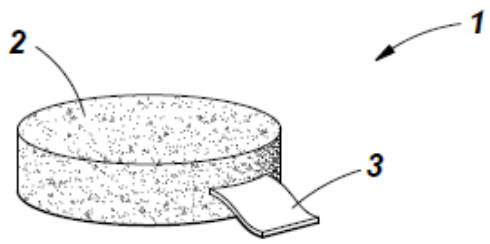


FIG. 1

21: 2022/05422. 22: 2022/05/17. 43: 2024/03/05
51: C10L
71: RAPITRADE 616 (PTY) LTD
72: SEAN BELMAN
33: ZA 31: 2021/03299 32: 2021-05-17
54: FIRE STARTER
00: -
This invention relates to a fire starter. The fire starter has a generally disc-shaped body which is made from a mixture of a meltable material and a second paper-based material. The paper-based material is cardboard that is in a dust format. The ratio of meltable material to cardboard dust is 12:13. A diameter of the disc 2 is between 40mm and 50mm and has a thickness of between 20mm and 25mm. A lighting aid such as a wick extends from a side of the body. To manufacture the fire starter, the wax and paraffin combination is melted at a temperature of above 70 degree Celsius and below 80 degree Celsius.



21: 2022/05500. 22: 2022/05/18. 43: 2024/04/09
51: C01G; C23G
71: NUVEST RECOVERY SOLUTIONS (PTY) LTD
72: ARTHUR PRETORIUS, IAN TUNNICLIFFE
33: ZA 31: 2019/06867 32: 2019-10-18
54: PROCESS FOR THE REGENERATION OF HYDROCHLORIC ACID PICKLE LIQUORS
00: -
This invention relates to a pickling process carried out in a pickling tank (11). Pickling solution comprising hydrochloric acid containing ferric chloride is removed from the pickling tank (11) hydrochloric acid is added to the pickling tank. The removed solution (12) is treated with sulphuric acid (22) to obtain a solution (24) comprising regenerated hydrochloric acid containing ferrous sulphate; obtaining a ferrous sulphate precipitate product (34); and recycling regenerated hydrochloric acid solution (16) to the pickling tank (11).

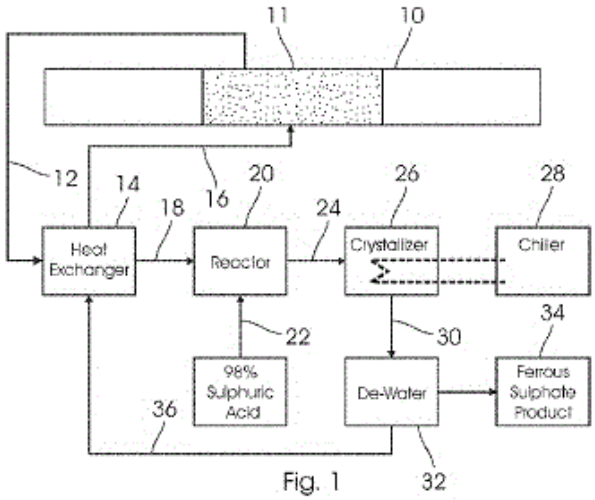
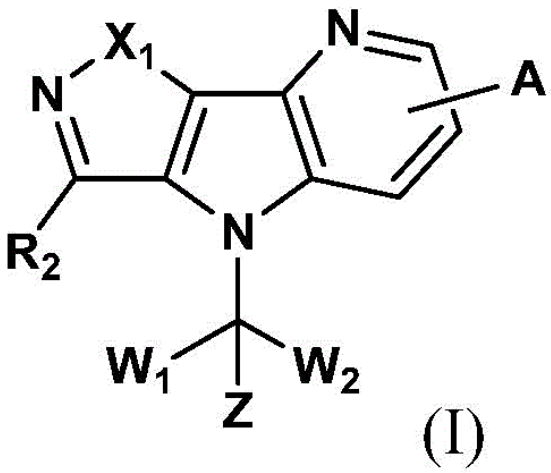


Fig. 1

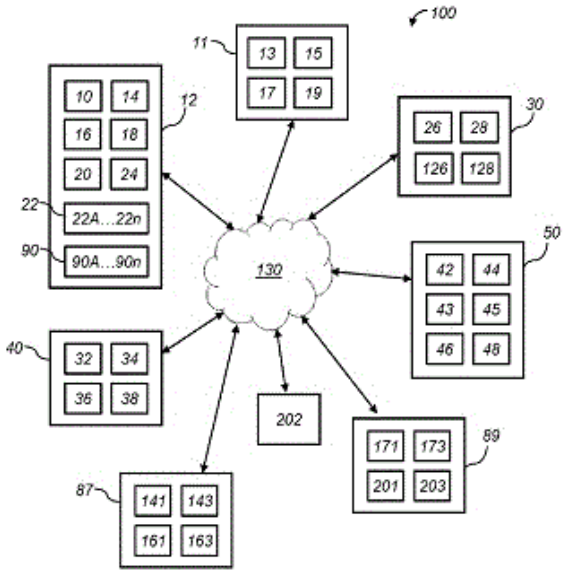
21: 2022/05582. 22: 2022/05/20. 43: 2024/04/04
51: A61K; A61P; C07D
71: Jacobio Pharmaceuticals Co., Ltd.
72: FANG, Haiquan, CHEN, Mingming, YANG, Guiqun, DU, Yuelei, WANG, Yanping, WU, Tong, LI, Qinglong, ZHANG, Lei, HU, Shaojing
33: PCT/CN 31: 2018/092542 32: 2018-06-25
54: TRICYCLIC COMPOUNDS
00: -
Disclosed are tricyclic compounds as bromodomain and extra-terminal (BET) inhibitors which are shown as formula I, their synthesis and their use for treating diseases. More particularly, disclosed are fused heterocyclic derivatives useful as inhibitors of BET, methods for producing such compounds and

methods for treating diseases and conditions wherein inhibition of one or more BET bromodomains provides a benefit.

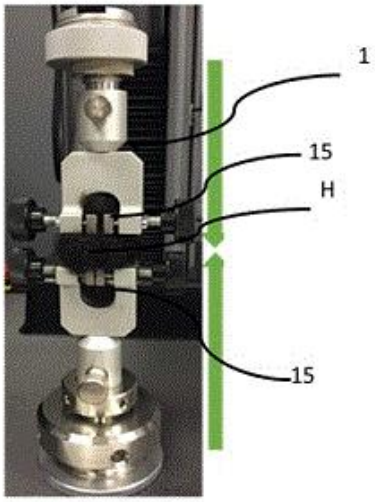


(I)

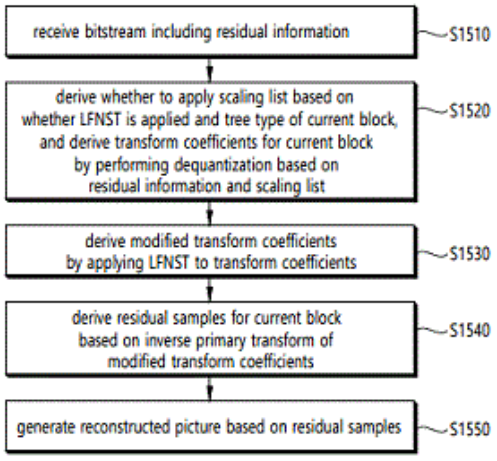
21: 2022/05593. 22: 2022/05/20. 43: 2024/04/26
51: G06F; G06Q
71: SONTIQ, INC.
72: JAMES VAN DYKE, ALPHONSE PASCUAL
33: US 31: 62/926,467 32: 2019-10-26
33: US 31: 16/638,046 32: 2020-02-10
33: US 31: 17/080,556 32: 2020-10-26
54: DATA BREACH SYSTEM AND METHOD
00: -
A method and system for generating a consumer breach history profile of a consumer over an electronic network includes receiving via the network consumer profile information including at least one consumer information element corresponding to the consumer, generating a consumer breach history profile in a database using the consumer profile information, and associating the consumer breach history profile with the consumer profile information in the database. The database includes breach events, each breach event associated with at least one breached information element. Consumer profile information is matched to a respective breach event by determining a match between the consumer information element and the breached information element associated with the respective breach event. The respective breach event is associated in the database with the consumer breach history profile and a mitigation action. A notification to the consumer of the breach event and mitigation action is generated.



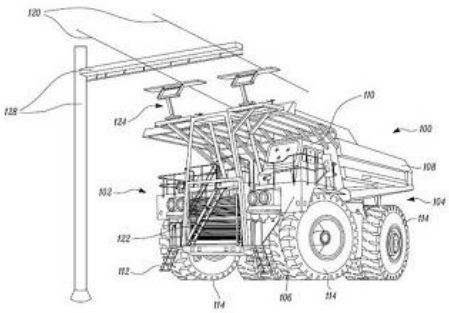
21: 2022/06301. 22: 2022/06/07. 43: 2024/04/18
51: A61K
71: L'OREAL SA
72: SEWRAJ, POONAM, MOLAMODI, Kwezikazi, GALLIANO, ANTHONY
54: METHOD FOR EVALUATING HAIR FIBERS
00: -
Method for evaluating hair fibers, comprising: a) Extending hair fibers (H) to a predetermined length, while measuring an extension force (FE) of extending hair fibers (H) to said predetermined length, b)Allowing said hair fibers (H) to recoil spontaneously, c) Making a measurement of a return force (FR) over time during the recoil of the hair fibers (H), d) Generating a score representative of hair shrinkage after extension, based at least on said measurement of step c), e) enerating an information representative of the impact of an optional treatment of the hair fibers (H) on hair shrinkage after extension based on said score generated at step d).



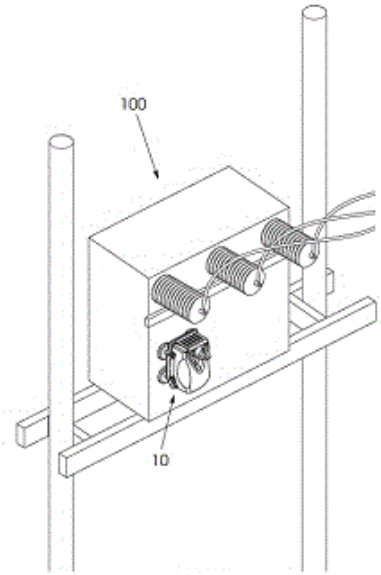
21: 2022/08032. 22: 2022/07/19. 43: 2024/04/09
51: H04N
71: LG ELECTRONICS INC.
72: MOONMO KOO, SEUNGHWAN KIM, JAEHYUN LIM
33: US 31: 62/959,815 32: 2020-01-10
54: TRANSFORM-BASED IMAGE CODING METHOD AND DEVICE THEREFOR
00: -
An image decoding method according to the present document comprises the steps of: receiving residual information from a bitstream; deriving transform coefficients for a current block by performing inverse quantization on the basis of the residual information; and deriving modified transform coefficients by applying LFNST to the transform coefficients, wherein the inverse quantization is performed on the basis of a predetermined scaling list, and wherein whether to apply the scaling list can be derived on the basis of whether the LFNST is applied and a tree type of the current block.



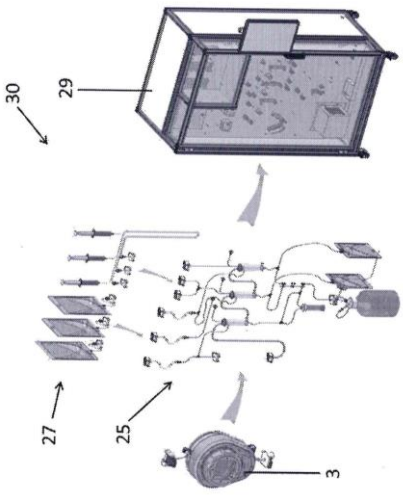
21: 2022/08658. 22: 2022/08/03. 43: 2024/04/08
51: B60L; B60M; G06K; H04N
71: CATERPILLAR INC.
72: SANCHEZ, Rodrigo, GALOFRE, Camilo, RUTH, Eric James
33: US 31: 17/411,445 32: 2021-08-25
54: OPERATOR ASSISTANCE SYSTEM FOR WORK MACHINE
00: -
An operator assistance system (132) associated with a work machine (100) includes an imaging device (134) mounted on the work machine (100) and facing an overhead line (120) and a pantograph (124) of the work machine (100). The imaging device (134) captures an input image (I4) including a first pictorial view (136) that includes the overhead line (120). The operator assistance system (132) also includes a controller (138) communicably coupled with the imaging device (134). The controller (138) generates an output image (O1, O3, O4) including a second pictorial view (148, 648, 748) and a first indication element (150, 650, 750) overlayed on the second pictorial view (148, 648, 748). The first indication element (150, 650, 750) defines a reference zone (156, 158, 160, 656, 658, 660, 756, 758, 760), such that a presence of the overhead line (120) of the second pictorial view (148, 648, 748) within the reference zone (156, 158, 160, 656, 658, 660, 756, 758, 760) indicates that the work machine (100) is in desired alignment with the overhead line (120). The operator assistance system (132) further includes a display device (154) to display the output image (O1, O3, O4) thereon for providing a visual indication to an operator.



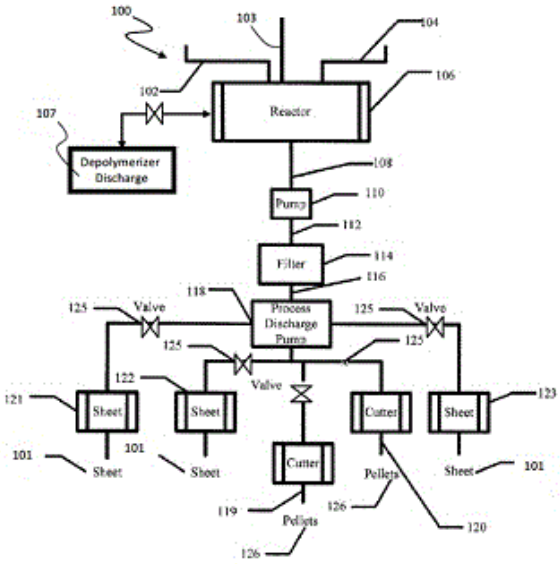
21: 2022/08718. 22: 2022/08/04. 43: 2024/04/08
51: G01D; G01K; G01R; H02H
71: ALLBRO (PTY) LTD
72: QUINTIN LAMPRECHT
33: ZA 31: 2021/02981 32: 2021-05-04
54: TRANSFORMER MONITORING DEVICE, ABD SYSTEM INCLUDING SAME
00: -
This invention concerns a monitoring device for monitoring operating conditions of a distribution transformer. The monitoring device includes a mounting base having means for mounting the monitoring device to the distribution transformer and an enclosure carried by the mounting base. A number of sensors are housed at least partially within the enclosure for monitoring the operating conditions of the distribution transformer and/or the monitoring device. A thermal break is provided between the mounting base and the enclosure to reduce heat transfer between the base and enclosure. The invention further concerns a monitoring system that includes a number of monitoring devices and a monitoring station that is in communication with the monitoring devices for receiving data from the monitoring devices.



21: 2022/08797. 22: 2022/08/05. 43: 2024/05/27
51: A61B; C12M; C12N
71: CUTISS AG
72: HOLENSTEIN, Claude Nicolas, RONFARD, Vincent, DITTRICH, Anna-Lena, FREI, Reto, WULLSCHLEGER, Christian Stefan, EISENBERG, Jascha, WOLLMANN, Sebastian
33: US 31: 62/970,773 32: 2020-02-06
54: CELL ISOLATION DEVICE AND METHOD
00: -
The present invention relates to a device and method for automatically isolating viable cells from connective, epithelial or other tissue, and, if the tissue is multilayered, for automatically separating one tissue layer from another.



21: 2022/08919. 22: 2022/08/10. 43: 2024/04/10
51: B29B; C12P
71: OCTAL SAOC FZC, SULTANATE OF OMAN
72: TARUN JOSHI, MUTEEB SIDDIQUI, KLAUS HAARMANN, JERRY BRADNAM, SEAN BROWN, MOHAMMED RAZEEM, WILLIAM J BARENBERG, NICHOLAS P BARAKAT
33: US 31: 62/850,168 32: 2019-05-20
33: US 31: 16/808,939 32: 2020-03-04
54: PROCESS FOR RECLAMATION OF POLYESTER BY REACTOR ADDITION
00: -
A method for reclaiming polyester can include: providing a feed of recycled polyester 420; providing a feed of polyester precursors 422; depolymerizing the recycled polyester 420 to obtain depolymerized polyester monomers 421; polymerizing the depolymerized polyester monomers 421 with the polyester precursors 422 to form a reclaimed polyester 423; and providing the reclaimed polyester 423 as output 102.



21: 2022/09204. 22: 2022/08/17. 43: 2024/04/08
51: G06F; G06Q
71: AMIDEL (PTY) LTD
72: BHEKI NDABANDABA
54: SYSTEM FOR, AND METHOD OF, FACILITATING A TRANSACTION BETWEEN A REQUESTING PARTY AND ONE OR MORE USERS
00: -
A system for facilitating a transaction between a requesting party and one or more users. The system includes a communication module and a payment module. The communication module is configured to (i) receive a purchase request/offer from a requesting party, requesting/offering the purchasing of certain personal information on at least one user, and (ii) receive a confirmation from the user, which confirms that the personal information on the user may be sent/made available to the requesting party. The payment module is configured to facilitate/initiate a payment process whereby a particular amount is credited to an account of the user. The communication module is further configured to provide the personal information on the particular user to the requesting party via a communication network/channel/link only if the user has confirmed that his/her personal information may be sent/made available to the requesting party.

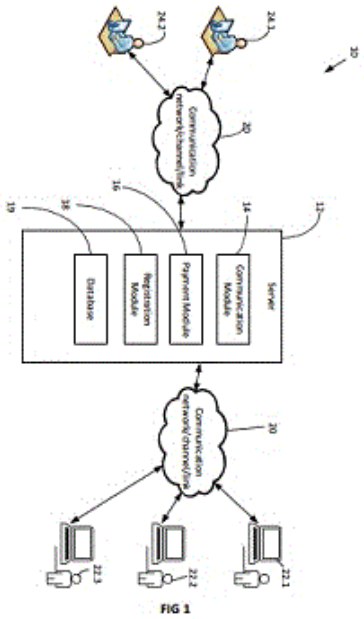
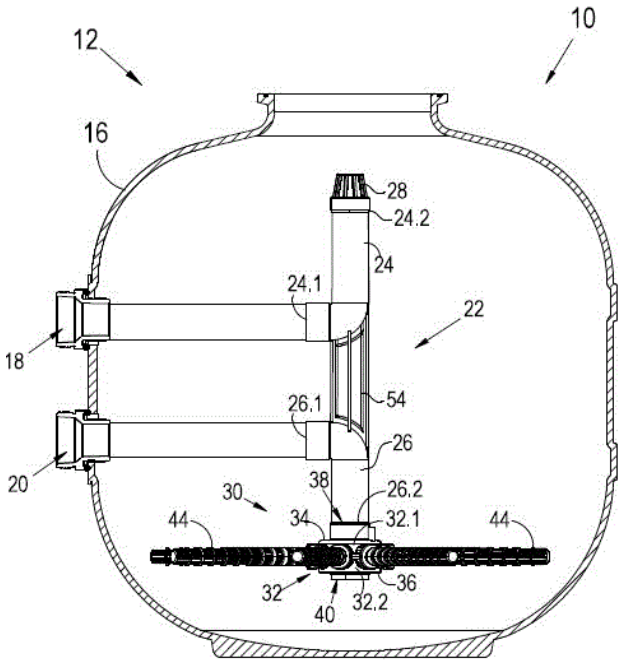
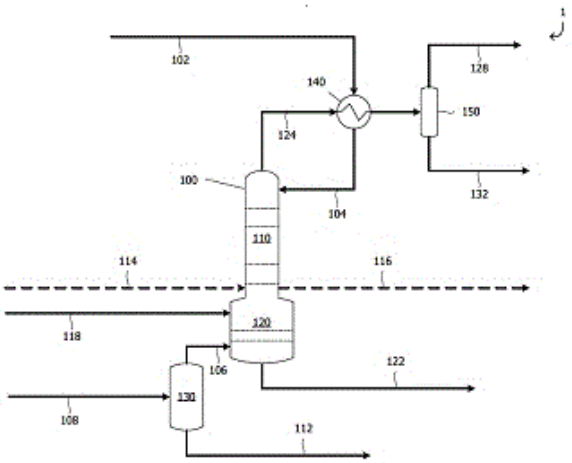


FIG 1

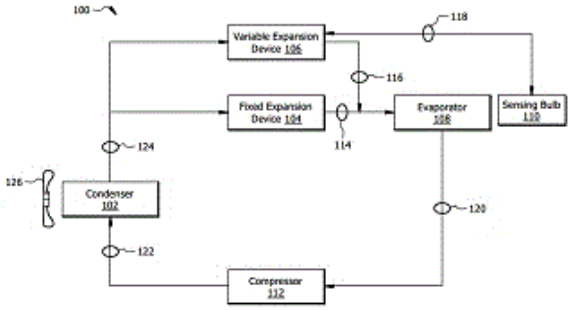
21: 2022/09476. 22: 2022/08/24. 43: 2024/03/27
51: B01D; E04H; F16K
71: Fluidra Waterlinx (Pty) Ltd
72: BOTHA, Hermanus Johannes
33: ZA 31: 2021/08593 32: 2021-11-04
54: Filter
00: -
The invention is in respect of a filter assembly 12 which includes a hollow filter housing 16 within which a filter medium is contained. Filter internals include a collector arrangement 30 having a hollow collector body 32 and a plurality of arms 44 secured to the body at circumferentially spaced positions. A downwardly directed opening 40 opens out of a lower surface of the collector body 32 and a grid or mesh extends across the opening 40 to permit the flow of water and inhibit the flow of filter medium therethrough. The arms 44 are secured to the collector body 32 by a twist lock connection. The invention extends to a swimming pool installation incorporating the filter assembly.



21: 2022/09500. 22: 2022/08/25. 43: 2024/04/08
51: B01D; F28C; F28F
71: AIR PRODUCTS AND CHEMICALS, INC.
72: YANLAI ZHANG, XUKUN LUO
33: US 31: 17/462,080 32: 2021-08-31
54: INTEGRATED HEAT EXCHANGER AND SOUR WATER STRIPPER
00: -
A combined vessel comprises a stripping section for removing acid gases from a sour water stream and a direct contact heat exchanger section for heating a graywater stream in order to improve heat and mass transfer in the treatment and recycle of water streams for a gasification process.



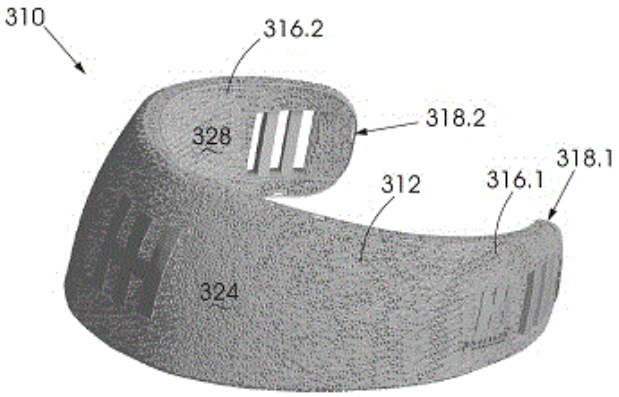
21: 2022/09501. 22: 2022/08/25. 43: 2024/04/09
51: F25B
71: THERMA-STOR LLC
72: SCOTT ERIC SLOAN, DANIEL JAMES DETTMERS, ALAN DAVID STAHL, WALT BERNHARD WAETJEN, CLIFFORD WILLIAM CALVERT
33: US 31: 17/465,626 32: 2021-09-02
54: PARALLEL FLOW EXPANSION FOR PRESSURE AND SUPERHEAT CONTROL
00: -
A Heating, Ventilation, and Air Conditioning (HVAC) system that is configured to receive a refrigerant from a condenser at a fixed expansion device and a variable expansion device. The system is further configured to output a first portion of the refrigerant to a first downstream HVAC component at a fixed flow rate using the fixed expansion device. The system is further configured to sense a temperature of an evaporator using a sensing bulb and to apply a first force to a pin of the variable expansion device based on the sensed temperature. The system is further configured to apply a second force to a valve of the variable expansion device via the force applied to the pin and to output a second portion of the refrigerant to a second downstream HVAC component at a variable flow rate based on the second force using the valve of the variable expansion device.



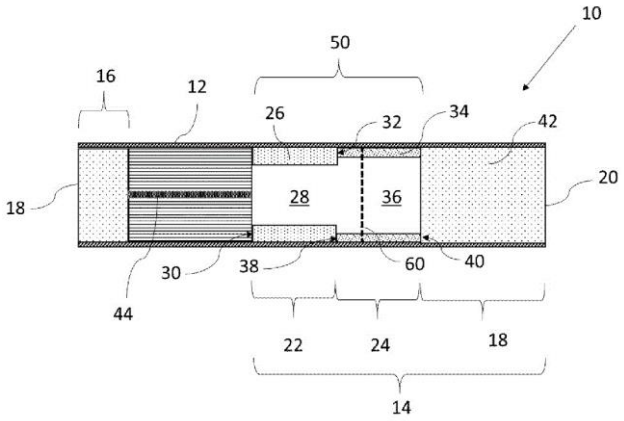
21: 2022/09961. 22: 2022/09/07. 43: 2024/06/04
51: E21F; G01B; G01D
71: Timrite (Pty) Ltd
72: PIENAAR, Frans Roelof Petrus, HOWELL, Mark
33: ZA 31: 2021/03876 32: 2021-06-07
54: MONITORING MINE INSTALLATIONS
00: -
The invention relates to a device and a method for monitoring apparatus located in a remote location, such as an underground mining panel, in which the monitored apparatus might include minesupports. The device comprises a rotatable reflected beam ranging device, for example a LIDAR rangerfinder (10), and means, such as a temporary mine support (12), to support the rangefinder within the space. The rangefinder is motor-driven to rotate relative to the support means (12). The rangefinder includes programmable logic means programmed to produce a digital image corresponding to the location of the boundaries of the space and the apparatus located within the space, during each rotation of the ranging device, and to record and store the digital images produced in successive rotations of the ranging device as successive composite digital images.

21: 2022/10318. 22: 2022/09/16. 43: 2024/04/26
51: A61K; A61P
71: POXEL
72: SÉBASTIEN BOLZE, PASCALE FOUQUERAY, SOPHIE HALLAKOU-BOZEC
33: EP 31: 20167687.1 32: 2020-04-02
54: USE OF A THIENOPYRIDONE DERIVATIVE IN THE TREATMENT OF AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE (ADPKD)
00: -
The invention relates to the use of a thienopyridone derivative, or a pharmaceutical composition comprising the same, in the treatment of autosomal dominant polycystic kidney disease (ADPKD).

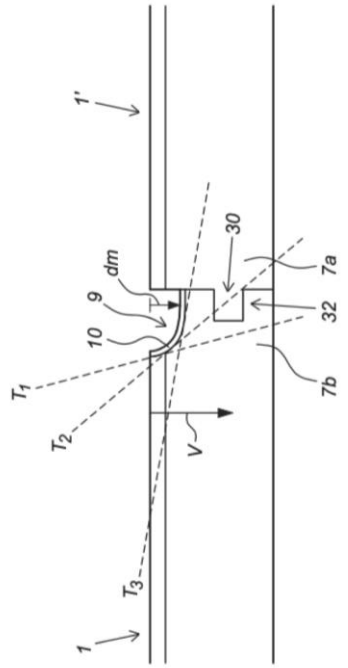
21: 2022/10516. 22: 2022/09/22. 43: 2024/04/26
51: A42B
71: MARK LENTIN
72: MARK LENTIN
33: ZA 31: 2021/04271 32: 2021-06-22
33: ZA 31: 2021/05670 32: 2021-08-11
33: ZA 31: 2022/03796 32: 2022-04-04
54: PROTECTIVE HEADGEAR
00: -
This invention concerns protective headgear for use by an athlete while playing sports. The protective headgear includes a shield having a central portion for covering at least a part of the athlete's forehead and two side portions extending from substantially opposite ends of the central portion for covering the athlete's temples. The shield defines a semi-rigid outer surface and a flexible inner surface to conform to the shape of the athlete's head in use. At least a portion of the shield comprises shock-absorbing material surfaces to dissipate energy from an impact.



21: 2022/10614. 22: 2022/09/26. 43: 2024/05/24
51: A24D
71: PHILIP MORRIS PRODUCTS S.A.
72: UTHURRY, Jerome, BERTOLDO, Massimiliano, NESOVIC, Milica, PRESTIA, Ivan, MONTANARI, Edoardo, D'AMBRA, Gianpaolo, MINZONI, Mirko, SCHMIDT, Johann, Friedrich
33: EP 31: 20160206.7 32: 2020-02-28
54: AEROSOL-GENERATING ARTICLE WITH IMPROVED CONFIGURATION
00: -
There is provided an aerosol-generating article (10) for producing an inhalable aerosol upon heating, the aerosol-generating article (10) comprising: a rod (12) of aerosol-generating substrate; a mouthpiece element (42) having a length (L1) and comprising a mouthpiece filter segment formed of a fibrous filtration material; and an intermediate hollow section (50) between the rod (12) of aerosol-generating substrate and the mouthpiece element (42), the intermediate hollow section (50) having a length (L2). The intermediate hollow section (50) comprises: an aerosol-cooling element (24) downstream of the rod (12) of aerosol-generating substrate, the aerosol-cooling element (24) comprising a hollow tubular segment (34) defining a longitudinal cavity (36) providing an unrestricted flow channel; and a support element (22) between the aerosol-cooling element (24) and the rod (12) of aerosol-generating substrate. The upstream end of the aerosol-cooling element abuts the downstream end of the support element. The length (L1) of the mouthpiece element (42) is at least 0.4 times the length (L2) of the intermediate hollow section (50).



21: 2022/10653. 22: 2022/09/26. 43: 2024/05/22
51: E04F
71: I4F LICENSING NV
72: BOUCKÉ, Eddy Alberic
33: NL 31: 2025283 32: 2020-04-06
54: TILE PANEL, SURFACE COVERING OF A MULTITUDE OF SUCH TILE PANELS FOR A FLOOR, CEILING OR WALL SURFACE
00: -
The present invention relates to a decorative tile panel for covering a floor, ceiling, or wall. Furthermore, the invention relates to a surface covering for a floor, ceiling or wall surface which is constructed by a multitude of neighbouring tile panels according to the invention, wherein the plurality of tile panels are preferably interconnected.



21: 2022/10765. 22: 2022/09/29. 43: 2024/04/26
51: G01F
71: GASCOP (PTY) LTD.
72: CORNELIS JOHANNES PEROLD
33: ZA 31: 2021/04581 32: 2021-07-01
54: CONSUMABLE MONITORING SYSTEM
00: -
This invention relates to a system used to monitor and manage consumables used in non-bulk applications. The system comprises a first measuring device associated with a first container and a first user. A backend is provided in data-communication with the first measuring device. A first user module, which is associated with the first user, is provided in data-communication with the backend, while a first service provider module, associated with a first service provider, is provided in data-communication with the backend. The first measuring device measures, intermittently or in real-time, a parameter associated with a level of a consumable contained by the container and transmits same in the form of a first dataset to the backend. The backend is configured to provide a prompt to the first service provider module in response to an instruction received from the first user via the first user module.

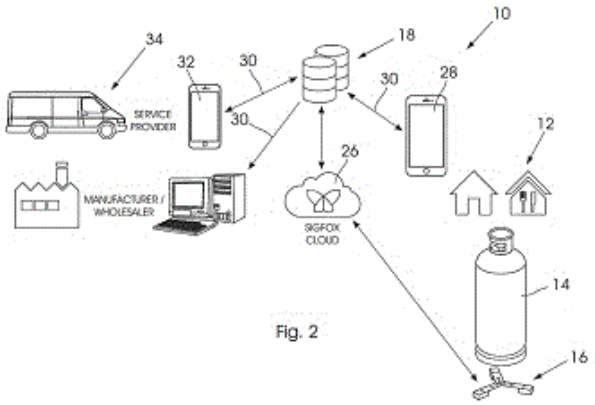
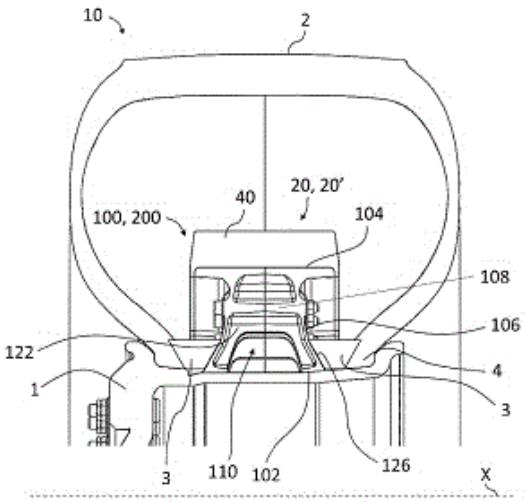


Fig. 2

21: 2022/10767. 22: 2022/09/29. 43: 2024/04/26
51: B60C
71: HUTCHINSON
72: MARIE PAGES, VINCENT JOSEPH, ETIENNE BRETON
33: FR 31: 2110328 32: 2021-09-30
54: RUN FLAT DEVICE
00: -
A run flat device (10) intended to be mounted in a tyre around a wheel rim of a vehicle, the device comprising at least one assembly (20, 20') of two half-shells (100, 200) assembled axially, each half-shell being made of a composite material based on fibres embedded in a thermoplastic or thermosetting resin, each half-shell comprising a radially internal periphery (102) a radially external periphery (104) and a lateral wall (106) connecting the radially internal periphery to the radially external periphery (104) configured so as to form an internal recess (110) within the at least one assembly and each half-shell further comprising a plurality of circumferentially distributed anti-compression ribs (108) extending, within the internal recess, radially from the radially external periphery towards the radially internal periphery.



21: 2022/10768. 22: 2022/09/29. 43: 2024/04/19
51: A01K
71: SG ENGINEERING SOLUTIONS (PTY) LTD.
72: ROBINSON, Gavin Stuart, KHAN, Ilyas Hassan, CASTLE, Shaun Peter
33: ZA 31: 2021/04093 32: 2021-06-30
54: CONTAINERISED EGG LAYER SYSTEM
00: -
According to the invention, there is provided a chicken coop arrangement comprising at least one container; a plurality of cages for housing poultry, including egg laying hens, the plurality of cages being accommodated within the container; a temperature regulating system for regulating the temperature within the container; and a cleaning system for automatically collecting waste products from the poultry, and removing the waste products from the container. In an embodiment, the plurality of cages comprises a first set of cages arranged on one side of the container proximate a first side wall, and a second set of cages arranged on the other side of the container proximate a second side wall. The cleaning system comprises a self-cleaning conveyor belt system comprising a conveyor belt located directly underneath each row of cages to immediately collect and remove the waste products produced by the egg laying hens.

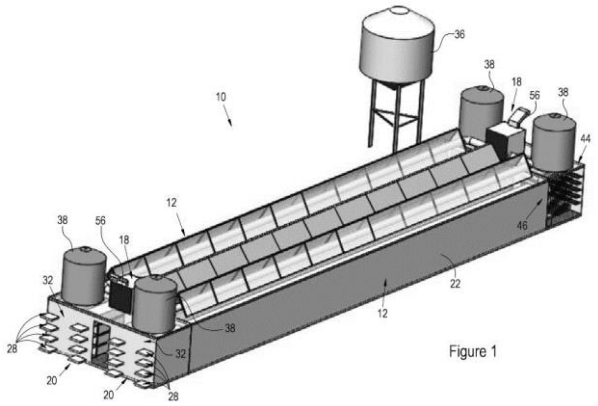


Figure 1

21: 2022/10866. 22: 2022/10/03. 43: 2024/04/10
51: A61K
71: ELPEN S.A. Pharmaceutical Industry
72: PENTAFRAGKA, Ergina-Ilia, PAPALEKAKOS, Pavlos, MATTHAIOU, Styliani
33: GR 31: 20210100666 32: 2021-10-04
54: SOLID PHARMACEUTICAL FORMS OF TERIFLUNOMIDE
00: -
The invention relates to innovative solid pharmaceutical forms of teriflunomide which are advantageous over the prior art in the following points. They are stable regardless of the incorporation of colloidal silica. They can quantitatively release the active substance, regardless of the incorporation of large amounts of lubricants. The solid forms of the present invention are produced by a simple manufacturing process where the final form is in the form of tablets, preferably coated. The solid forms of the present invention exhibit optimal stability, satisfactory mechanical strength, ease and flexibility of use.

21: 2022/11111. 22: 2022/10/11. 43: 2024/04/19
51: E02D; E21C
71: TITAN MINING (PTY) LTD
72: WHYTE, Shane Rodger
33: ZA 31: 2021/05457 32: 2021-08-02
54: SELF-CLEANING DRAIN SUMP
00: -
A self-cleaning drain sump is provided comprising a base and at least one sloping side wall, but typically a plurality of side walls, being arranged to diverge upwardly and away from the base. One of the sloping side walls is arranged proximate an inlet for receiving incoming water in which particles are suspended, with the at least one sloping side wall

being used to accelerate the incoming water entering to prevent the deposition of the suspended particles and thus keep the particles in suspension. In an embodiment, the drain sump is fitted with a pump arrangement to extract the water with suspended particles within the drain sump, the pump arrangement comprising a submersible pump arranged proximate the base of the drain sump, a motor positioned above the pump to drive the pump, and a delivery standpipe column extending away and upwardly from the pump.

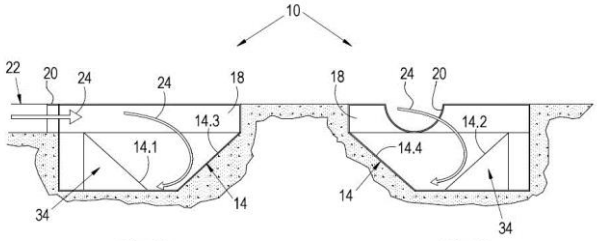


Fig. 2 Fig. 3

21: 2022/11315. 22: 2022/10/14. 43: 2024/04/04
51: A61K
71: Vella Bioscience, Inc.
72: FRID, Michael, PADMA-NATHAN, Harin, SEGIL, Helen, DEMENA, Nial C.
33: US 31: 62/990,026 32: 2020-03-16
54: USE OF CANNABIDIOL IN TREATING ANTI-DEPRESSANT-INDUCED FEMALE SEXUAL DYSFUNCTION
00: -
The invention relates to compositions and methods containing hemp and/or cannabis- derived cannabidiol (CBD) for topical use in treating female sexual dysfunction induced by antidepressants, including, e.g., selective serotonin reuptake inhibitors (SSRIs), serotonin/norepinephrine reuptake inhibitors (SNRIs), and other anti-depressants.

21: 2022/12283. 22: 2022/11/10. 43: 2024/05/08
51: A61K; A61P
71: CORCEPT THERAPEUTICS INCORPORATED
72: HUNT, Hazel, CUSTODIO, Joseph
33: US 31: 63/030,800 32: 2020-05-27
54: CONCOMITANT ADMINISTRATION OF GLUCOCORTICOID RECEPTOR MODULATOR RELACORILANT AND PACLITAXEL, A DUAL SUBSTRATE OF CYP2C8 AND CYP3A4
00: -
Many drugs useful in treating cancer are metabolized by CYP2C8 enzymes, by CYP3A4 enzymes, or both. The effects of concomitant administration of relacorilant and paclitaxel, a drug used to treat cancer that is a substrate for both CYP2C8 and CYP3A4, are disclosed herein. Relacorilant potently inhibited CYP2C8 and CYP3A4 in in vitro tests, indicating that co-administration of relacorilant and paclitaxel would increase paclitaxel plasma exposure more than 5-fold in vivo, requiring significant reductions in paclitaxel doses when co-administering paclitaxel with relacorilant. Surprisingly, paclitaxel plasma exposure increased only by about 80% instead of the expected more than 5-fold increase expected with concomitant relacorilant and paclitaxel administration. Applicant discloses safe methods of co-administering relacorilant and paclitaxel by reducing the dose of paclitaxel to about half the paclitaxel dose used when paclitaxel is administered alone. Relacorilant and such reduced doses of paclitaxel may be co-administered to treat cancer, e.g., ovarian or pancreatic cancer.

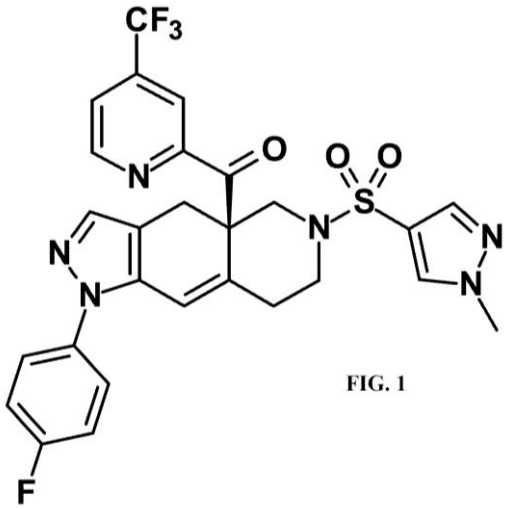
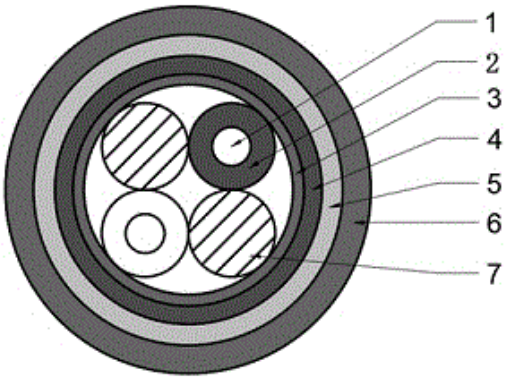


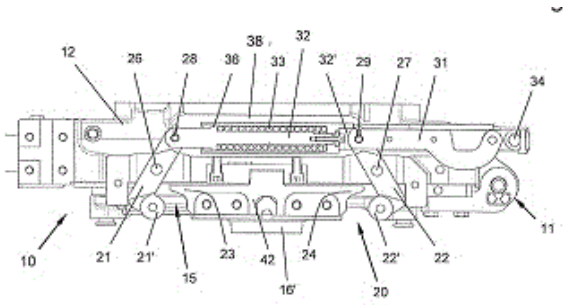
FIG. 1

21: 2022/12462. 22: 2022/11/15. 43: 2024/04/26
51: H01B
71: JIANGSU HENGTONG WIRE & CABLE TECHNOLOGY CO., LTD.
72: BO ZHANG, GUOQUAN WANG, JIAONA XI, LIANGLIANG GENG, QIUHUI HE, HONGJIE ZHANG, WEIGUO LU, YONGZHAO PENG
33: CN 31: 202010421103.0 32: 2020-05-18
54: COLD-RESISTANT DATA TRANSMISSION CABLE

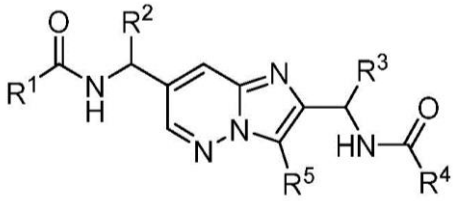
00: -
Disclosed is a cold-resistant data transmission cable, comprising a cable core composed of a stranded conductor (1) and a filling rope (7), and a cold-resistant cladding tape layer (3), a cold-resistant inner sleeve layer (4), a metal braid layer (5) and a cold-resistant outer sleeve (6), which are wrapped on the outside of the cable core in order, wherein the surface of the stranded conductor (1) is provided with an insulating layer (2); and raw materials of the cold-resistant inner sleeve layer (4) and the cold-resistant outer sleeve (6) include, in parts by weight, the following components: 15-40 parts of a methyl vinyl phenyl silicone rubber, 25-40 parts of a 1,4-polybutadiene rubber, 10-30 parts of a linear low-density polyethylene, 3-9 parts of zinc oxide, 2-6 parts of calcium stearate, 2-8 parts of a crosslinker, 1-3 parts of an assistant crosslinker and 0.6-2 parts of an anti-aging agent. The cold-resistant performance of the cable is relatively good.



21: 2022/12508. 22: 2022/11/16. 43: 2024/04/29
51: B22D
71: REFRACTORY INTELLECTUAL PROPERTY GMBH & CO. KG
72: BEAT HEINRICH, JEAN-DANIEL COUSIN
33: EP 31: 20186977.3 32: 2020-07-21
54: SLIDE GATE ON THE SPOUT OF A METALLURGICAL VESSEL
00: -
A slide gate (10) on the spout of a metallurgical vessel is provided with a housing (12), at least one gate plate arranged therein, a longitudinally displaceable gate plate and with a cover (15) that can be fastened to the housing (12) by means of a bracing mechanism (20). The gate plates can be pressed against one another by the bracing mechanism (20) via the cover (15). The bracing mechanism (20), which has at least one spring member (33), is provided on both sides at the housing (12) with pivotably mounted clamping levers (21, 22) and supports (23, 24) cooperating therewith, such that the cover (15) can be fastened to the housing and released therefrom by pivoting these clamping levers (21, 22). The gate plates, which have to be changed frequently, can thus always be braced uniformly and optimally relative to each other, even after many deployments.



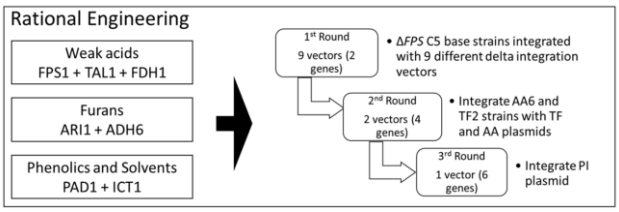
21: 2022/12967. 22: 2022/11/29. 43: 2024/04/04
51: A61K; A61P; C07D
71: Janssen Pharmaceutica NV
72: BEHENNA, Douglas, DECKHUT, Charlotte, ROVIRA, Alexander, GOLDBERG, Steven, KUMMER, David, KEITH, John, WOODS, Craig, RHORER, Timothy, TANIS, Virginia, MARTIN, Connor, MEDUNA, Steven, MCCARVER, Stefan, VALDES, Alexander, LOSKOT, Steven, XUE, Xiaohua
33: US 31: 63/017,682 32: 2020-04-30
54: IMIDAZOPYRIDAZINES AS MODULATORS OF IL-17
00: -
The present application discloses compounds having the following formula: (I), or pharmaceutically acceptable salts thereof, wherein R^1, R^2, R^3, R^4 and R^5 are defined in the specification, as well as methods of making and using the compounds disclosed herein for treating or ameliorating an IL-17 mediated syndrome, disorder and/or disease.



(I)

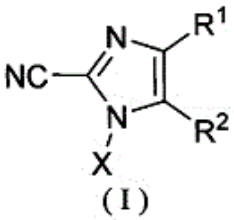
21: 2022/13105. 22: 2022/12/02. 43: 2024/04/03

51: C07K; C12N; C12P
71: STELLENBOSCH UNIVERSITY
72: BRANDT, Bianca Anina, GÖRGENS, Johann Ferdinand, VAN ZYL, Willem Heber
33: ZA 31: 2020/02428 32: 2020-05-05
54: METHOD OF MODIFYING A YEAST STRAIN, MODIFIED YEAST STRAINS OBTAINED THEREBY AND USES THEREOF
00: -
A method of producing a modified Saccharomyces cerevisiae yeast strain with enhanced resistance (or tolerance) to pretreatment-derived microbial inhibitors such as furans, phenolics and weak acids is provided, which comprises integrating at least one copy of the TAL1 gene and at least one copy of two or more of the FDH1, ARI1 and ADH6 genes into the S. cerevisiae genome. A modified yeast strain so obtained is also provided, the modified yeast strain being capable of simultaneously overexpressing these genes relative to a yeast strain which hasn't been modified in the same manner. S. cerevisiae strains which have been modified as described herein can be used to ferment lignocellulosic hydrolysates containing pretreatment inhibitors such as furans, phenolics and weak acids. Suitable lignocellulosic hydrolysates include sugarcane bagasse (SCB) and waste streams from the pulp and paper industry, such as spent sulphite liquor (SSL).

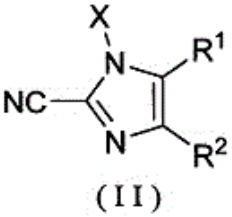


21: 2022/13175. 22: 2022/12/05. 43: 2024/05/28
51: A61K; A61P
71: UNICHEM LABORATORIES LTD
72: SATHE, Dhananjay, IYAPPAN, Sarvanakumar, PAWAR, Dilip
33: IN 31: 202021019406 32: 2020-05-07
54: ANTI-CANCER PROTEINS
00: -
A recombinant lectin for use in a method of treatment of cancer by inhibiting angiogenesis in a subject. The treatment comprises administration of a therapeutically effective amount of the recombinant lectin.

21: 2022/13313. 22: 2022/12/08. 43: 2024/04/29
51: A61K; A61P
71: ISHIHARA SANGYO KAISHA, LTD.
72: HIROSHI SHIKAMA, KOJI HIGUCHI, SHOGO ATSUMI, TAKAYUKI IMURA
33: JP 31: 2020-097170 32: 2020-06-03
54: ANTIMICROBIAL AGENT FOR NON-HUMAN ANIMAL
00: -
The present invention provides a novel antimicrobial agent, in which a compound represented by formula (I) or (II) or a salt thereof is used as an antimicrobial agent for a nonhuman animal.



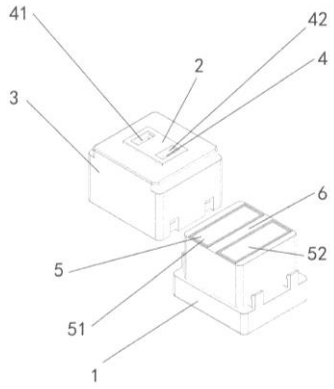
(I)



(II)

21: 2022/13372. 22: 2022/12/09. 43: 2024/05/22
51: H01R
71: DALIAN SAFE TECHNOLOGY CO., LTD
72: MA, Wen, MA, Junge, CAO, Liwei
33: CN 31: 202010513546.2 32: 2020-06-08
54: SAFETY SOCKET MODULE, AND POWER STRIP AND MOBILE CABLE REEL COMPRISING SAFETY SOCKET MODULE
00: -
A safety socket module, and a power strip and a mobile cable reel including the safety socket module are provided. The safety socket module includes: a shell; an upper cover, configured to cover the shell, where a plurality of jacks are provided on the upper cover; compartments, where the number of the compartments corresponds to the number of the jacks, each of the compartments is arranged in the shell and below a respective jack of the jacks, and an interior of each of the compartments is accessible from an exterior of the shell through the respective jack; waterproof electrical connection switches, arranged in the compartments and configured to asynchronously control connection and disconnection of a circuit between a power supply and a plug of an electric appliance; and lock control members, respectively arranged in the compartments and aligned with the jacks; where each of the waterproof electrical connection switches

includes a waterproof capsule, and a movable contact piece and a static contact piece arranged opposite to each other in the waterproof capsule.



21: 2022/13547. 22: 2022/12/14. 43: 2024/05/17
51: E05B
71: ABLOY OY
72: RAATIKAINEN, Juha
33: FI 31: 20205701 32: 2020-07-01

54: ELECTRONIC PADLOCK

00: -

The electronic actuator of an electronic padlock according to the invention is arranged to turn the cam piece (5) to release the latch parts (7) from a locking state and to turn the cam piece (5) to hold the latch parts (7) in the locking state. The cam piece (5) comprises a cover part (5A) and a shaft part (5B). The cover part has a central hole (12) for the shaft part. The shaft part (5B) has a shaft pin (15), which is set into the central hole (12). The shaft part also has a connecting part 19, which is arranged to be in contact with the electronic actuator 4. The cam piece further comprises a spring (9,) which is between the shaft pin (15) and the cover part (5A). The spring comprises a first end (9A) and a second end (9B). The first end 9A is arranged to be in contact with the cover part 5A. The second end 9B is arranged to be in contact with the shaft part 5B. The spring is arranged to transmit turning force of the electronic actuator from the shaft pin 15 to the cover part 5A in the direction of said locking state.

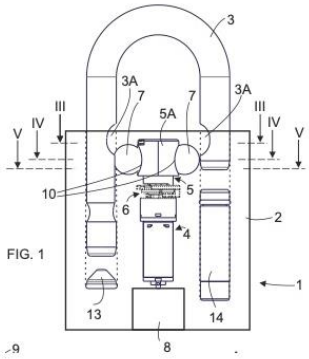


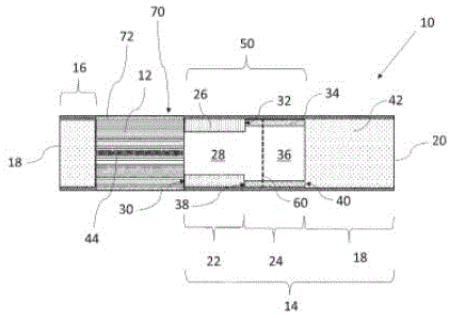
FIG. 1

21: 2022/13594. 22: 2022/12/15. 43: 2024/05/24
51: A24D
71: PHILIP MORRIS PRODUCTS S.A.
72: JORDIL, Yves, PAPAKYRILLOU, Stefanos
33: EP 31: 20386023.4 32: 2020-05-19

54: MODIFIED AEROSOL-GENERATING ARTICLE WITH FLAME RETARDANT WRAPPER

00: -

There is provided an aerosol-generating article (10; 110) for producing an inhalable aerosol upon heating. The aerosol-generating article (10; 110) comprises: a rod (12) of aerosol-generating substrate extending from a rod proximal end to a rod distal end upstream from the rod proximal end; a downstream section (14) at a location downstream of the rod (12) of aerosol-generating substrate; and a wrapper (70) circumscribing at least the rod (12) of aerosol-generating substrate, the wrapper (70) comprising a wrapping base material having a basis weight. At least a treated portion (72) of the wrapper (70) extending between the rod proximal end and the rod distal end comprises a flame retardant composition comprising one or more flame retardant compounds. Thus, the treated portion (72) of the wrapper (70) has an overall basis weight greater than the basis weight of the wrapping base material. The treated portion (72) extends over at least about 80 percent of an outer surface area of the rod of aerosol-generating substrate.



21: 2022/13765. 22: 2022/12/20. 43: 2024/04/03
51: A61K; A61P
71: HORPHAG RESEARCH IP (PYC) LTD.
72: FERRARI, Victor, BURKI, Carolina, WEICHMANN, Franziska
33: EP 31: 20180939.9 32: 2020-06-18
54: PROCYANIDINS FOR THE TREATMENT OF ENDOTHELIAL DYSFUNCTION TRIGGERED BY COVID-19
00: -
The invention relates to a natural composition for medical purposes and more specifically to a composition comprising procyanidins, for use in the prevention or treatment of endothelial inflammation and/or endothelial systemic dysfunction triggered by Corona virus disease 2019 (COVID-19) including symptomatic post-COVID-19 subjects recovering from COVID-19.

21: 2022/13830. 22: 2022/12/21. 43: 2024/04/29
51: B01L
71: NANOBIOSYM INC.
72: ANITA GOEL
33: US 31: 61/790,354 32: 2013-03-15
33: US 31: 61/875,661 32: 2013-09-09
33: US 31: 61/951,084 32: 2014-03-11
54: SYSTEMS AND METHODS FOR MOBILE DEVICE ANALYSIS OF NUCLEIC ACIDS AND PROTEINS
00: -
A portable system for extracting, optionally amplifying, and detecting nucleic acids or proteins using a compact integrated chip in combination with a mobile device system for analyzing detected signals, and comparing and distributing the results via a wireless network. Related systems and methods are provided.

21: 2022/13858. 22: 2022/12/21. 43: 2024/05/08
51: B01D
71: GLOBAL ALGAE TECHNOLOGY, LLC
72: HAZLEBECK, David A., RICKMAN, William
33: US 31: 16/896,632 32: 2020-06-09
54: BIOLOGICAL AND ALGAE HARVESTING AND CULTIVATION SYSTEMS AND METHODS
00: -
Algae harvesting and cultivating systems and methods for producing high concentrations of algae product with minimal energy. In an embodiment, a dead-end filtration system and method includes at least one tank and a plurality hollow fiber membranes positioned in the at least one tank. An algae medium is pulled through the hollow fiber membranes such that a retentate and a permeate are produced.

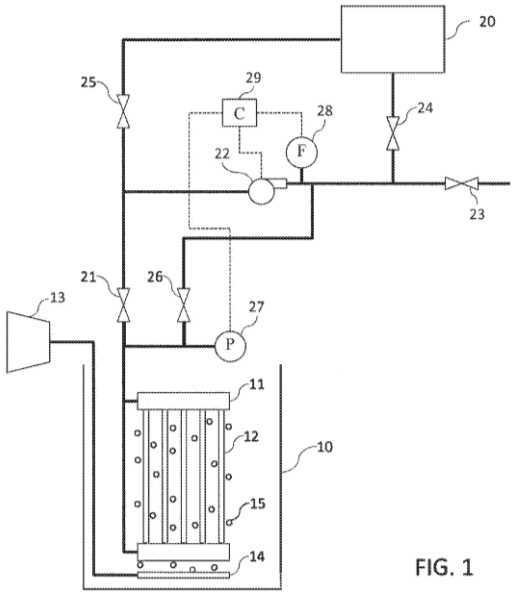
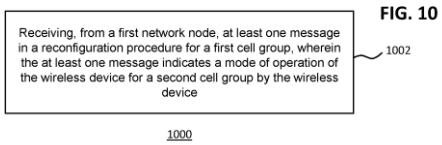


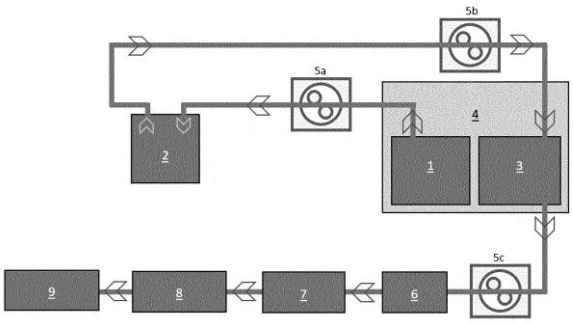
FIG. 1

21: 2022/13938. 22: 2022/12/22. 43: 2024/05/08
51: H04W
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: DA SILVA, Icaro Leonardo, WAGER, Stefan
33: US 31: 63/061,964 32: 2020-08-06
54: CONFIGURING A WIRELESS DEVICE CONFIGURED WITH MULTI-RADIO ACCESS TECHNOLOGY DUAL CONNECTIVITY
00: -
Methods and apparatus are disclosed, including in an example a method performed by a wireless device configured with Multi-Radio Access Technology Dual Connectivity (MR-DC). The method comprises receiving, from a first network node, at least one message in a reconfiguration procedure for a first cell group. The at least one message indicates

a mode of operation of the wireless device for a second cell group by the wireless device.

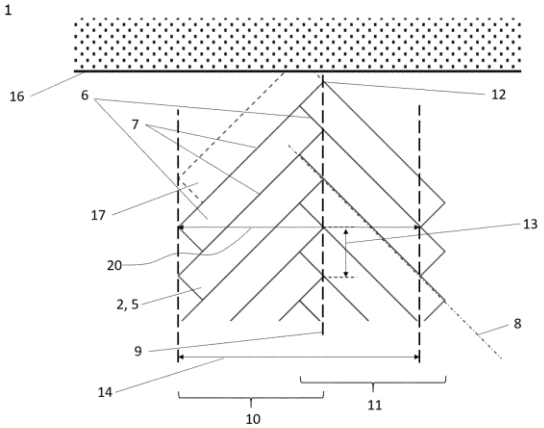


21: 2023/00174. 22: 2023/01/03. 43: 2024/05/08
51: C12N
71: EXO BIOLOGICS SA
72: JURGA, Marcin
33: EP 31: 20184893.4 32: 2020-07-09
54: EXTRACELLULAR VESICLES (EVS) DERIVED FROM MESENCHYMAL STROMAL CELLS AND METHOD FOR OBTAINING SAID EVS
00: -
The current invention relates to a process for the manufacturing of a composition of extracellular vesicles (EVs) derived from mesenchymal stromal cells (MSCs), said method comprises: culturing and expanding MSCs in a serum-free and xeno-free medium comprising purified human serum albumin and human transferrin; - collecting cell supernatant, said cell supernatant comprises EVs; - filtering said cell supernatant to obtain EVs; and concentrating said EVs, preferably by means of ultrafiltration. In a second and further aspect, said invention is directed to compositions comprising EVs and their clinical use.



21: 2023/00255. 22: 2023/01/05. 43: 2024/05/08
51: B28D; E04F
71: VAN DER VLIS DESIGN GMBH
72: RULAND, Carl
33: DE 31: 10 2020 118 329.1 32: 2020-07-10
54: A CUTTING AND LAYING AID FOR CUTTING AND LAYING FLOORBOARDS IN A HERRINGBONE PATTERN
00: -
The present invention relates to a cutting and laying aid (1) for cutting and laying floorboards (2) of a floor covering composed of a plurality of floorboards (2) in a herringbone pattern, wherein the cutting and laying aid (1) is configured as a flat body having a flat body length (3) and a flat body width (4). The invention further relates to a method for cutting and laying floorboards (2) when laying them in a herringbone pattern. The invention further relates to a use of a cutting and laying aid configured in accordance with the invention in a method for cutting and laying floorboards (2) when laying the floorboards (2) in a herringbone pattern. What is essential to the invention is that the dimensions of the cutting and laying aid partially correspond to the characteristic dimensions of the floor-boards or of the laying pattern. By means of these dimensions, the periodicity of the laying pattern is exploited to shorten the floorboards in the region of the laying area boundary to the required lengths or cut them to length. A laying area boundary is to be understood to be a laying area edge, e.g. a wall or an end trim. Thus, contours of a laying area boundary, particularly of a laying area edge, can be transferred onto floorboards while saving a considerable amount of time and, at the same time, the cutting of floorboards can be made more precise and easier.

Fig. 1

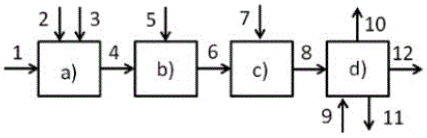


21: 2023/00314. 22: 2023/01/06. 43: 2024/05/28
51: C10G
71: REPSOL, S.A., IFP ENERGIES NOUVELLES
72: WEISS, Wilfried, BONNARDOT, Jerome, RIBAS SANGÜESA, Iñigo
33: FR 31: 2008106 32: 2020-07-30

54: METHOD FOR THE TREATMENT OF PLASTIC PYROLYSIS OILS INCLUDING SINGLE-STAGE HYDROCRACKING

00: -

The present invention relates to a method for treating a plastic pyrolysis oil, comprising: (a) selectively hydrogenating said feedstock in the presence of at least hydrogen and at least one selective hydrogenation catalyst; (b) hydrotreating said hydrogenated effluent in the presence at least of hydrogen and at least one hydrotreatment catalyst, to obtain a hydrotreated effluent; (c) hydrocracking said hydrotreated effluent in the presence at least of hydrogen and at least one hydrocracking catalyst, to obtain a hydrocracked effluent; (d) separating the hydrocracked effluent in the presence of an aqueous stream, at a temperature between 50 and 370° C, to obtain at least one gaseous effluent, a liquid aqueous effluent and a liquid hydrocarbon effluent.



21: 2023/00601. 22: 2023/01/13. 43: 2024/05/08
51: A01N; C12N; C12R
71: OCP SA
72: HAFIDI, Mohamed, KOUISNI, Lamfeddal, NAFIS, Ahmed, OUHDOUCH, Yedir
33: MA 31: 50114 32: 2020-06-22

54: BIOSTIMULANT BASED ON BACTERIA FOR BETTER ADAPTATION OF PLANTS TO HYDRIC AND OSMOTIC STRESSES

00: -

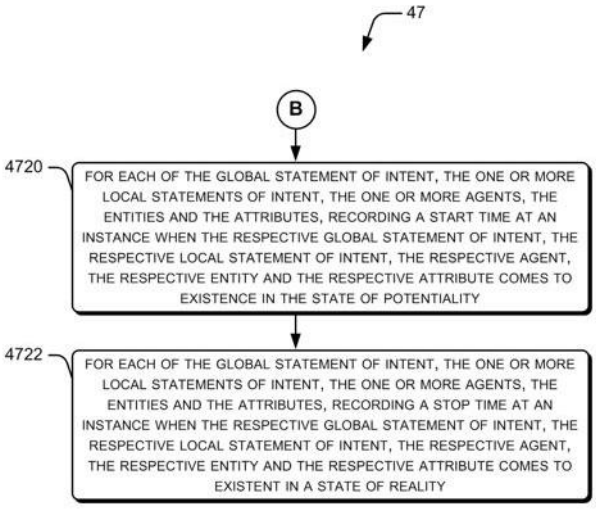
This invention describes the obtaining of a biostimulant based on 3 bacterial strains for boosting plant resistance to hydric and osmotic stresses. These bacteria are capable of increasing the hydric potential of soils by means of the degradation of waxes (BDC) which coat the components of soils and reduce the capacity of the latter to store sufficient rain and/or irrigation water. In addition, these bacteria help plants to save water more successfully via optimal and continual potassium nutrition (BSK). These three bacteria (BDC + BSK) are coded N1, N4 and N3 and identified (N1 = *Streptomyces acrimycini* N4= *Streptomyces mutabilis* and N3= *Polyangium brachysporum*). This invention also describes a new bacterial inoculum formulation based on the optimisation of certain biological properties in these bacteria (N1, N4 and N3), namely their properties in increasing the water retention capacity of soils and in solubilising and mobilising the forms of potassium for the plant from complex inorganic forms which are not accessible to the plant without the microbial partner thereof (BCD and BSK). By including together propagules of these bacteria and perlite as a matrix, the ability of the (BDC and BSK) to increase the sponge capacity of soils and to solubilise the insoluble forms of potassium and make them accessible to the plant will be increased. As a result, the role of the (BDC and BSK- Plant) partnership on the development of the host plant will be optimised by intimately combining the impact of these bacteria on the plant directly (control of absorption, conduction and transpiration) and indirectly (availability of the water in soils in a uniform manner, by modification of the components that cause water loss by leaching, evaporation).

21: 2023/00618. 22: 2023/01/13. 43: 2024/05/08
51: G06F
71: BRANE COGNITIVES PTE. LTD.
72: BYRRAJU, Ramalinga Raju
33: IN 31: 202041033248 32: 2020-08-03
33: IN 31: 202041042410 32: 2020-09-29
33: IN 31: 202141028967 32: 2021-06-28

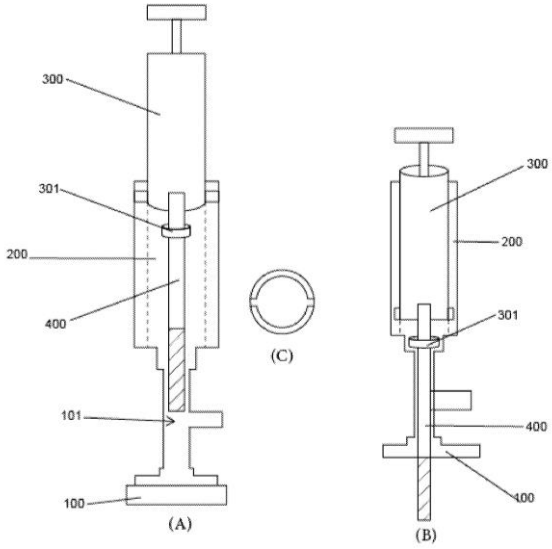
54: NATURAL SOLUTION LANGUAGE

00: -

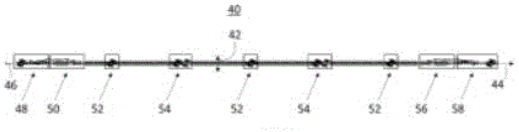
A computer-implemented method that effectively replaces 'programming code' in conveying application or solution logic to the computer using a natural language-based design. Without taking any reference to alien symbols or keywords, NSL uses standard and familiar natural-language-like constructs (any natural language, not just English) using a computer-implemented method to technically convey complex operating, application, and solution logic to the machine agents (computers) in a user-friendly way. Using the same computer-implemented methodologies, it has the power to translate or reverse engineer all existing programming code into NSL. Fundamentally, NSL requires no 'programming code' expertise. Users can quickly and easily convey the logic directly to the computer or recruit available solution components with ease. In addition, the elimination of artificial barriers between information and processes, and merging them, solution logic embedded in computer programs and applications is brought into the purview of information search principles.



21: 2023/00832. 22: 2023/01/18. 43: 2024/05/08
51: B01L; G01N
71: BUCKMAN LABORATORIES INTERNATIONAL, INC.
72: QIU, Ke, YANG, Shunong, PAIK, Daniel, GAO, Xin, KOUZNETSOV, Dimitri, MCNEEL, Thomas, WILLER, Michael
33: US 31: 63/051,198 32: 2020-07-13
54: FLUOROMETER CALIBRATION DEVICE AND METHOD
00: -
A system and method for calibration of a fluorometer using a calibration cell comprising a sealed container housing one or more calibration solutions of known fluorescence. The inventive calibration device includes a sealed calibration cell housed in a storage chamber that may be permanently or temporarily affixed to the top of a fluorometer such that the calibration solution can be moved by manual or automated means directly from the storage chamber to the fluorometer cell for a calibration operation. All of the solution needed for any given calibration can be contained exclusively, in small quantity, inside the calibration cell.

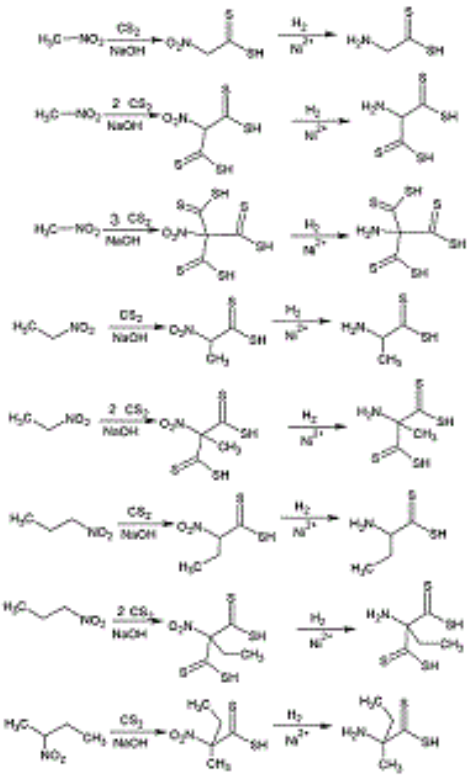


21: 2023/00866. 22: 2023/01/19. 43: 2024/05/27
51: B61B; B65G; E01B
71: RAIL-VEYOR TECHNOLOGIES GLOBAL INC.
72: PIETILA, Russell Matthew, WIITANEN, Tim Willard, FISK, James E, KANGAS, Carl Eric, MCCALL, William John (Deceased), DAAVETTILA, Luke Alan
33: US 31: 63/054,053 32: 2020-07-20
54: RAIL TRANSPORT OVER-UNDER BYPASS SYSTEM FOR CONVEYING BULK MATERIALS
00: -
A rail transport system having no internal drive is used for conveying bulk materials and includes an over-under bypass arrangement. The bypass arrangement includes drives, ramps and switches that allow trains to travel in both directions on two sets of tracks positioned above the same track footprint. Rail bypass arrangements for use with rail transport systems for conveying bulk materials and allowing bypass of a first train and a second train are also disclosed herein.



21: 2023/00961. 22: 2023/01/23. 43: 2024/04/18
51: C07C B03D
71: DALY, Thomas
72: DALY, Thomas
33: US 31: 16/917,347 32: 2020-06-30
33: US 31: 17/088,615 32: 2020-11-04
54: CARBONDISULFIDE DERIVED ZWITTERIONS

00: -
Amines and amine derivatives that improve the buffering range, and / or reduce the chelation and other negative interactions of the buffer and the system to be buffered. The reaction of amines or polyamines with various molecules to form polyamines with differing pKa's will extend the buffering range, derivatives that result in polyamines that have the same pKa yield a greater buffering capacity. Derivatives that result in zwitterionic buffers improve yield by allowing a greater range of stability.



21: 2023/01266. 22: 2023/01/31. 43: 2024/05/08
51: E01C
71: BETOLAR OY
72: LEPPÄNEN, Juha
33: FI 31: 20205743 32: 2020-07-09
54: FOUNDATION, APPARATUS AND METHOD FOR PRODUCING THE SAME
00: -
Foundation, apparatus and method for stabilization of a foundation. The foundation (1) comprises a subsoil (2) and a pavement structure (3) formed over it, which pavement structure includes a plurality of successive structural layers. At least one of these structural layers is a binder-stabilized structural layer (8) which includes stone material (10) and a binder (9). Additionally, the stabilized structural layer is enclosed within a sleeve structure (11).

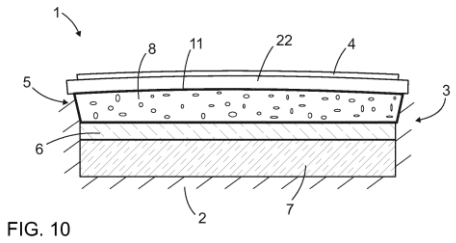
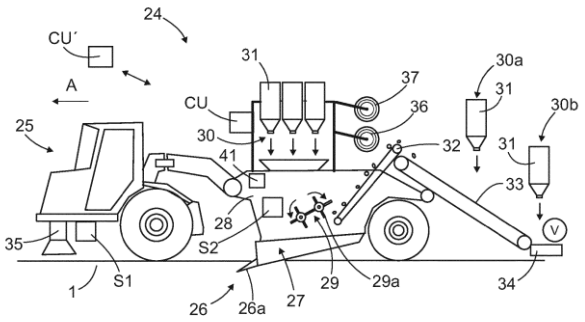


FIG. 10

21: 2023/01272. 22: 2023/01/31. 43: 2024/05/08
51: E01C
71: BETOLAR OY
72: LEPPÄNEN, Juha
33: FI 31: 20205742 32: 2020-07-09
54: APPARATUS AND METHOD OF TREATING SOIL
00: -
Apparatus and method of treating soil. The apparatus (24) is a movable vehicle (25) having a blade device (26) for removing the soil. The removed soil is transferred into a loading space (28) in which the soil is homogenized. One or more binders are mixed to the soil, after which it is taken back to ground by a spreading device (34). Stabilization of the soil is thus carried out in the movable apparatus.



21: 2023/01309. 22: 2023/02/01. 43: 2024/04/02
51: C12Q
71: PML SCREENING, LLC, UNIVERSITÉ PARIS-SACLAY, THE ASSISTANCE PUBLIQUE - HÔPITAUX DE PARIS (APHP), THE INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE (INSERM)
72: ELI HATCHWELL, PEGGY S EIS, EDWARD B. III SMITH, YASSINE TAOUFIK
33: US 31: 62/716,072 32: 2018-08-08
33: US 31: 62/716,183 32: 2018-08-08

54: METHODS FOR ASSESSING THE RISK OF DEVELOPING PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY CAUSED BY JOHN CUNNINGHAM VIRUS BY GENETIC TESTING

00: -

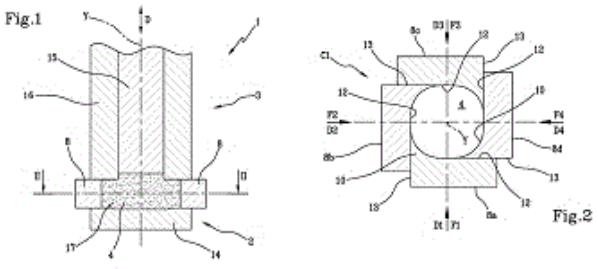
This document provides methods and materials related to treating a disease. For example, this document provides methods for treating a subject's disease based on identifying the risk of progressive multifocal leukoencephalopathy PML using a genetic test.

21: 2023/01317. 22: 2023/02/01. 43: 2024/04/03
51: B29C; B29K; B29L
71: SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA
72: FABRIZIO PUCCI, FIORENZO PARRINELLO, DAVIDE ZANOTTI, FRANCESCO PIRAZZOLI, GIOVANNI MAZZOTTI
33: IT 31: 102020000019351 32: 2020-08-05
33: IT 31: 102020000019360 32: 2020-08-05
33: IT 31: 102020000032156 32: 2020-12-23

54: A MOULDING APPARATUS AND METHOD

00: -

A moulding apparatus for forming an object (20) with a mouldable material, the moulding apparatus having a forming region (4) delimited by a lateral surface (5) extending around a central zone (6). The moulding apparatus comprises: a plurality of sectors (8; 80; 108; 208) defining the lateral surface (5), each sector (8; 80; 108; 208) having a body (9) delimited by a forming surface (11; 311), at least a first pushing device for applying, on a first sector (8a) of said plurality, a first force (F1) directed towards the central zone (6) in a first direction (D1), at least a second pushing device for applying, on a second sector (8b) of said plurality, a second force (F2) directed towards the central zone (6) in a second direction (D2), the second direction being arranged transversely to the first direction (D1). The second sector (8b) is in contact with the first sector (8a) for transmitting the second force (F2) to the first sector (8a), so that the forming surface (11) of the first sector (8a) is moved towards the central zone (6) under the combined action of the first force (F1) and the second force (F2), in order to reduce the volume of the forming region (4).



21: 2023/01318. 22: 2023/02/01. 43: 2024/04/03
51: B01J; C23C; C25B
71: INDUSTRIE DE NORA S.P.A.
72: FRANCESCO PINO, NAKAI TAKAAKI, AKIHIRO KATO
33: IT 31: 102020000020587 32: 2020-08-28

54: ELECTRODE WITH ENHANCED SHUTDOWN TOLERANCE

00: -

The present invention concerns an electrode for use in an alkaline electrolysis process, the electrode comprising: a metal substrate; a catalytic layer disposed on the metal substrate, the catalytic layer comprising nickel and nickel oxide and having a porosity less than about 1 m^2/g; and an active composition disposed both on and within the catalytic layer, the active composition comprising one or more metal compounds selected from the group consisting of a cobalt compound, an iridium compound, a rhodium compound, an iron compound, a platinum compound, a lithium compound and a manganese compound. The invention also concerns an alkaline water electrolysis unit comprising the electrode and a method of forming the electrode.

21: 2023/01319. 22: 2023/02/01. 43: 2024/04/03
51: B29B; B29C; B29K; B29L
71: SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA
72: FABRIZIO PUCCI, FIORENZO PARRINELLO
33: IT 31: 102020000019351 32: 2020-08-05
33: IT 31: 102020000019360 32: 2020-08-05
33: IT 31: 102020000032156 32: 2020-12-23

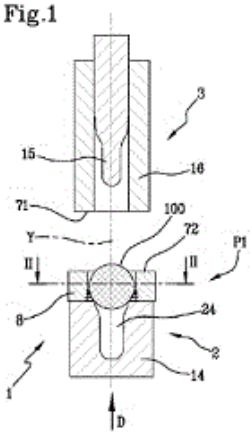
54: A COMPRESSION MOULDING METHOD AND APPARATUS

00: -

A method for forming an object, comprising the steps of: - providing a mould (1; 101; 201; 301; 401; 501) comprising a first mould part (2; 102; 202; 302; 502) and a second mould part (3; 103; 203; 303; 503) opposite to each other, a part selected from between the first mould part and the second mould part comprising a plurality of sectors (8; 108; 208; 308; 508) for shaping at least a lateral portion of the object, the sectors delimiting a variable-volume forming region (4) of the mould; - positioning a dosed amount (100; 400; 500) of mouldable material between the first mould part and the second mould part while the mould is in an open position; - displacing the first mould part and the second mould

part towards each other in a moulding direction (D), to define between the first mould part and the second mould part a closed forming chamber (17) bringing into contact respective abutment surfaces (71, 72; 571, 572) of the first mould part and the second mould part, the abutment surfaces extending transversely to the moulding direction, The method further comprises the step of moving the sectors transversely to the moulding direction to reduce the volume of the variable-volume forming region. The mould comprises a forming component (15; 115; 215; 315; 515) which penetrates into the variable-volume forming region, compressing the mouldable material in the moulding direction.

Fig.1



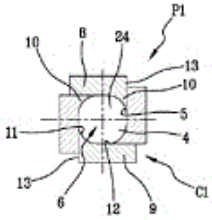


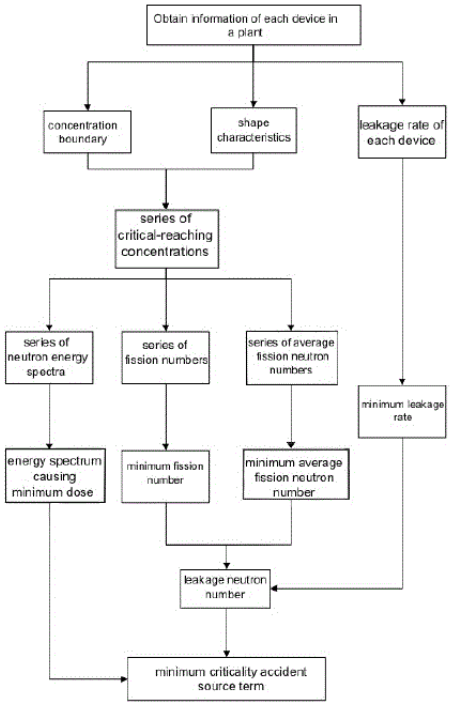
Fig.2

21: 2023/01320. 22: 2023/02/01. 43: 2024/04/09
51: B01J; C23C; C25B
71: INDUSTRIE DE NORA S.P.A.
72: RICCARDO MARINA, DJ DONN MATIENZO, CHIARA DI BARI, FRANCESCO PINO, EMANUELE INSTULI
33: IT 31: 102020000020575 32: 2020-08-28
54: ELECTRODE FOR GAS EVOLUTION IN ELECTROLYTIC PROCESSES
00: -

The present invention concerns an electrode for gas evolution in electrolytic processes and a method for the production of such an electrode, the electrode comprising a metal substrate and a coating formed on said substrate, wherein said coating comprises at least a highly porous catalytic outer layer containing nickel oxide and nickel hydroxide, said porous outer layer having a surface area of at least 40 m^2/g (BET). The catalytic layer is prepared from a Ni oxide/V oxide initial coating with subsequent leaching of V.

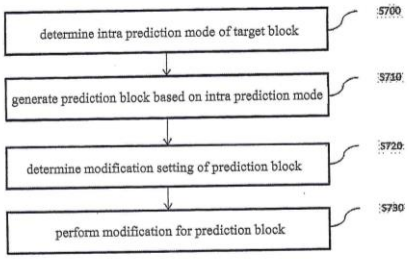
21: 2023/01350. 22: 2023/02/02. 43: 2024/04/19
51: G06F; G21C; G21D
71: China Nuclear Power Engineering Co., Ltd.
72: LI, Yunlong, LIU, Guoming, HUO, Xiaodong, ZHANG, Haoran, SHAO, Zeng, YI, Xuan, HU, Xiaoli, YU, Miao, CHEN, Tian
33: CN 31: 202210651739.3 32: 2022-06-10
54: METHOD OF DETERMINING MINIMUM CRITICALITY ACCIDENT SOURCE TERM
00: -

Provided is a method of determining a minimum criticality accident source term, including the steps of: obtaining a leakage neutron or photon number DN under a minimum criticality accident by determining a minimum fission number V_{min}, a minimum average fission neutron number N_{min} and a minimum neutron or photon leakage rate D_{min} of respective devices in a plant; obtaining, based on the leakage neutron or photon number DN under the minimum criticality accident and an energy spectrum of the minimum criticality accident source term, a leakage source term corresponding to the minimum criticality accident.

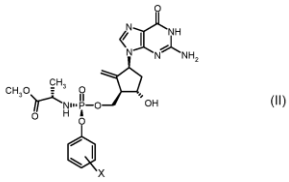


21: 2023/01351. 22: 2023/02/02. 43: 2024/05/22
51: H04N
71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC.
72: KIM, Ki Baek
33: KR 31: 10-2018-0107256 32: 2018-09-07
54: IMAGE ENCODING/DECODING METHOD AND DEVICE
00: -

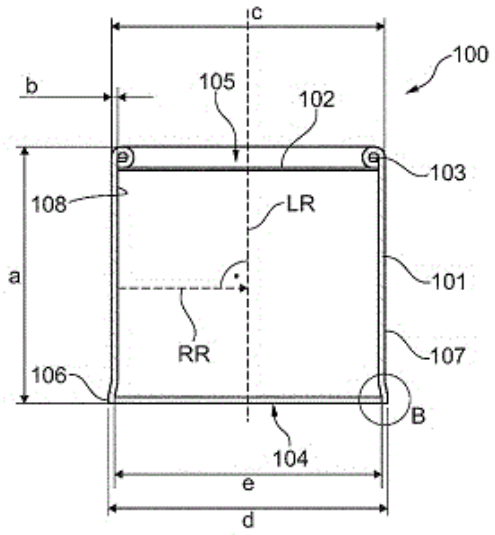
Image encoding/decoding method and device according to the present invention enable deciding of an intra-screen prediction mode of a target block, generation of a prediction block of the target block on the basis of the intra-screen prediction mode, and correction of the generated prediction block.



21: 2023/01363. 22: 2023/02/02. 43: 2024/04/25
51: A61P; A61K; C07F
71: BEIJING JUNKE HUAYUAN MED TECH CO., LTD.
72: ZHONG, Bohua, LI, Hongwu, WANG, Xiaozai
33: CN 31: 202010273139.9 32: 2020-04-08
54: ENTECAVIR MONOPHOSPHATE ALANINAMIDE PHENOLIC ESTER AND MEDICAL USE THEREOF
00: -
Provided in the present invention is an entecavir monophosphate alaninamide phenolic ester derivative as represented by formula II or a non-toxic pharmaceutically acceptable salt thereof. In the formula, X is H, halogen, R or -OR, and R is a C1-3 alkyl or a substituted C1-3 alkyl. Further provided is the use of the entecavir monophosphate alaninamide phenolic ester derivative or the non-toxic pharmaceutically acceptable salt thereof in the preparation of a drug for resisting the hepatitis B virus.

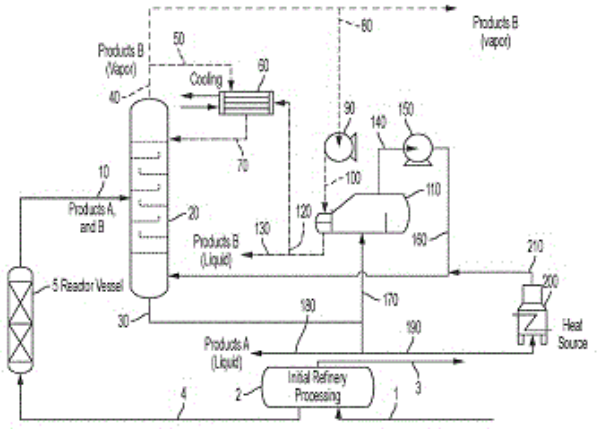

(II)

21: 2023/01380. 22: 2023/02/02. 43: 2024/04/03
51: B65D
71: TUNAP GMBH & CO. KG
72: ANDRÉ HOFMANN, MAREK HAUPTMANN, JOCHEN GRUNERT, STEFFEN HEROLD
33: DE 31: 10 2020 119 510.9 32: 2020-07-23
54: CAP MADE OF PAPER
00: -
The invention relates to a cap (100) and a corresponding production method for the cap (100) for closing a container. The cap (100) has a spiral-wound casing (101), comprising a first opening (105) and a second opening (104), wherein the first opening (105) and the second opening (104) are opposite one another. The cap (100) also has a top disc (102), wherein the top disc (102) is arranged in such a way that it closes the first opening (105) of the casing (101). The casing (101) is produced from paper. The second opening (104) of the casing (101) has a reinforcing element (106) and the reinforcing element (106) is a structure extending inside the casing (101).



21: 2023/01381. 22: 2023/02/02. 43: 2024/04/03
51: B01D; C12M
71: ENERGY INTEGRATION, INC.
72: LYNN CRAWFORD, WILLIAM III SCHAFER
33: US 31: 63/052,202 32: 2020-07-15
33: US 31: 63/172,150 32: 2021-04-08
33: US 31: 63/172,151 32: 2021-04-08
33: US 31: 17/374,959 32: 2021-07-13
54: METHODS AND SYSTEMS FOR ELECTRIFYING, DECARBONIZING, AND REDUCING ENERGY DEMAND AND PROCESS CARBON INTENSITY IN INDUSTRIAL PROCESSES VIA INTEGRATED VAPOR COMPRESSION
00: -
This disclosure provides systems and methods that utilize integrated mechanical vapor or thermal vapor compression to upgrade process vapors and condense them to recover the heat of condensation across multiple processes, wherein the total process energy is reduced. Existing processes that are unable to recover the heat of condensation in vapors are integrated with mechanical or thermal

compressors that raise vapor pressures and temperatures sufficient to permit reuse. Integrating multiple processes permits vapor upgrading that can selectively optimize energy efficiency, environmental sustainability, process economics, or a prioritized blend of such goals. Mechanical or thermal vapor compression also alters the type of energy required in industrial processes, favoring electro-mechanical energy which can be supplied from low-carbon, renewable sources rather than combustion of carbonaceous fuels.



21: 2023/01382. 22: 2023/02/02. 43: 2024/04/03
51: B01D; C10G
71: ENERGY INTEGRATION, INC.
72: LYNN CRAWFORD, WILLIAM III SCHAFER
33: US 31: 63/052,202 32: 2020-07-15
33: US 31: 63/172,150 32: 2021-04-08
33: US 31: 63/172,151 32: 2021-04-08
33: US 31: 17/374,962 32: 2021-07-13

54: METHODS AND SYSTEMS FOR OPTIMIZING MECHANICAL VAPOR COMPRESSION AND/OR THERMAL VAPOR COMPRESSION WITHIN MULTIPLE-STAGE PROCESSES

00: -

The present invention utilizes mechanical vapor compression and/or thermal vapor compression integrating compression loops across multiple process stages. A sequential network of compressors is utilized to increase the pressure and condensing temperature of the vapors within each process stage, as intra-vapor flow, and branching between process stages, as inter-vapor flow. Because the vapors available are shared among and between compressor stages, the number of compressors can be reduced, improving economics. Balancing vapor mass flow through incremental compressor stages which traverse multiple process stages by splitting vapors between compressor stages enables the overall vapor-compression system to be tailored to individual process energy requirements and to accommodate dynamic fluctuations in process conditions.

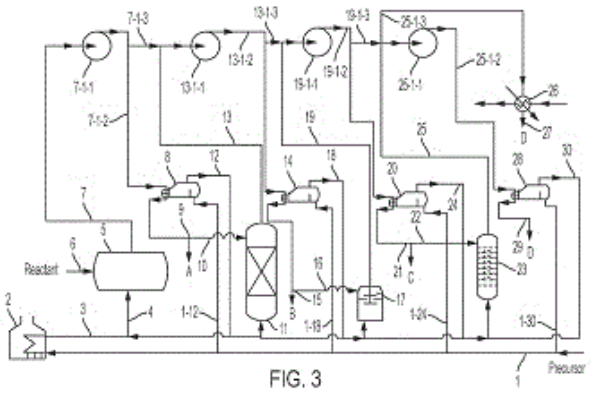


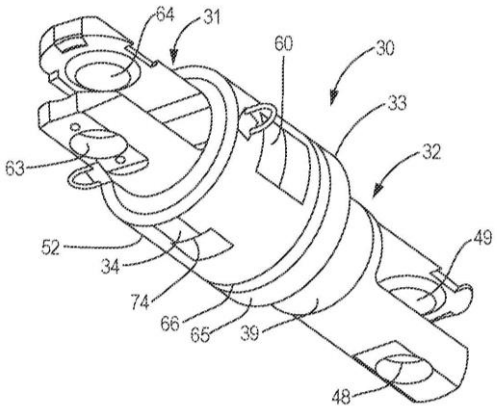
FIG. 3

21: 2023/01443. 22: 2023/02/03. 43: 2024/04/09
51: B60G; F16F
71: Caterpillar Inc.
72: CHOW, Jeffrey, GOSLOVICH, Kurt S.
33: US 31: 16/926,213 32: 2020-07-10

54: CLEVIS-ENDED SUSPENSION STRUT MANUFACTURED WITHOUT WELDS

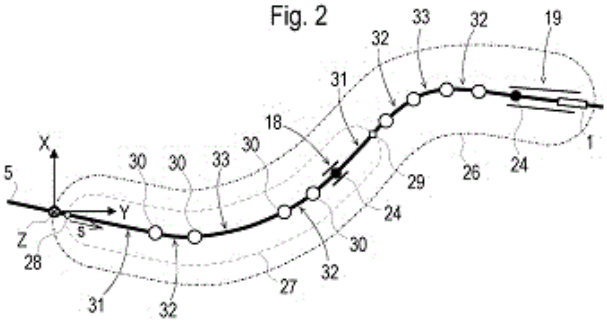
00: -

In accordance with one aspect of the present disclosure, a suspension strut (30) for use on a work machine (1) is provided. The suspension strut (30) may have a forged one piece cylindrical inner housing (32) that includes a hollow rod (36) which forms a circumferential piston (37) at an open end (38) and a lower clevis (39) at a closed end (40) of the hollow rod (36). The suspension strut (30) may further have a forged one piece cylindrical outer housing (31) that includes a hollow barrel (52) having an interior (53) and an exterior surface (54), a closed end (55) that forms an upper clevis (56), an open end (66), and a port (34) on the exterior surface (54) of the hollow barrel (52). Further, the inner and outer housing (32, 31) may be coupled by a disk shaped end cap (65) attached to the open end (66) of the hollow barrel having an inner diameter (68) that is slideably engaged with an outer surface (69) of hollow rod (36).



21: 2023/01448. 22: 2023/02/03. 43: 2024/04/03
51: B61K; B61L
71: PLASSER & THEURER EXPORT VON BAHNBAUMASCHINEN GESELLSCHAFT M.B.H.
72: FLORIAN AUER, MICHAEL BERGHUBER, FABIAN HINTERBERGER, BERNHARD METZGER, KRZYSZTOF WILCZEK
33: AT 31: A50782/2020 32: 2020-09-16
54: METHOD AND SYSTEM FOR DETERMINING A TARGET COURSE OF A TRACK FOR POSITION CORRECTION
00: -
The invention relates to a method for determining a target geometry (S) of a track (5) for correcting the position of the track (5), in which method an actual geometry (I) of the track (5) is first detected along a track section (26) by means of a measuring system (8), and the target geometry (S) is subsequently calculated on the basis of the actual geometry (I) by means of a computing unit (36). In the process, actual position points (15) of the track (5) are detected along the track section (26) by means of a position detection system (13), at least one actual position point (15) being specified to the computing unit (36) as a pass-through point (24) and the target geometry (S) being calculated by means of the computing unit (36) in such a way that the target geometry (S) is aligned with the actual geometry (I) as a sequence of geometric line routing elements (31, 32, 33) and is laid through the specified pass-through point (24). A significant improvement in quality in comparison with known compensation methods including pre-measurement is obtained as a result.

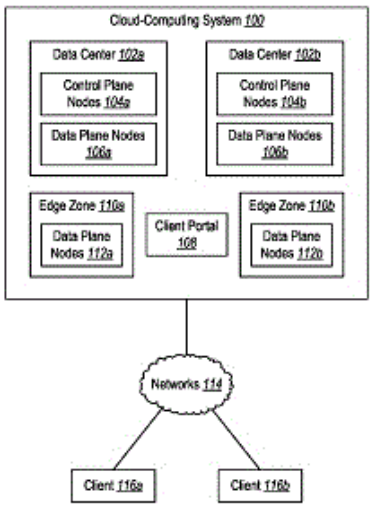
Fig. 2



21: 2023/01449. 22: 2023/02/03. 43: 2024/04/03
51: A61K; C07D; A61P
71: SHANGHAI LEADINGTAC PHARMACEUTICAL CO., LTD.
72: YAN FENG, SHIQIANG LI
33: CN 31: 202010785541.5 32: 2020-08-05
33: CN 31: 202011513669.2 32: 2020-12-18
54: COMPOUND FOR TARGETING AND DEGRADING PROTEIN, AND PREPARATION METHOD THEREFOR AND USE THEREOF
00: -
Provided in the present invention are a class of bifunctional compounds for targeting and degrading an IRAK4 kinase protein, a pharmaceutical composition and a preparation method therefor. The compound of the present invention can not only effectively inhibit and/or degrade the IRAK4 kinase protein in cells, but also effectively inhibit the production of IL-6 by immune cells, and has good degradation selectivity. The compound can be used in the preparation of a drug for treating and/or preventing IRAK4-mediated related diseases or conditions, such as cancer, immunological diseases and inflammatory diseases.

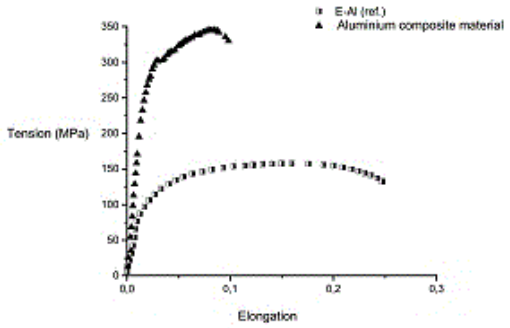
21: 2023/01451. 22: 2023/02/03. 43: 2024/04/03
51: G06F
71: MICROSOFT TECHNOLOGY LICENSING, LLC
72: ALPHONSE KURIAN, CHANDRASEKHAR PASUPULETI, ARPAN KUMAR ASTHANA, PUSHPRAJ AGRAWAL, HUMAYUN MUKHTAR KHAN
33: NL 31: 2026456 32: 2020-09-11
54: AUTOMATIC NODE FUNGIBILITY BETWEEN COMPUTE AND INFRASTRUCTURE NODES IN EDGE ZONES
00: -
A cloud-computing system dynamically manages allocation of infrastructure nodes and compute nodes in an edge zone of the cloud-computing

system. The edge zone begins with a first number of infrastructure nodes and a second number of compute nodes. As the edge zone executes customer workloads, the cloud-computing system determines whether the infrastructure nodes are over utilized or under utilized. When the infrastructure nodes are under utilized, the cloud-computing system re-assigns an infrastructure node to the compute nodes. When the infrastructure nodes are over utilized, the cloud-computing system re-assigns a compute node to the infrastructure nodes. In this way, the cloud-computing system dynamically maintains an optimal balance between resources devoted to supporting the edge zone (the infrastructure nodes) and resources devoted to executing customer workloads (the compute nodes). In other words, the cloud-computing system continually maximizes use of edge zone resources for executing the customer workloads while maintaining necessary infrastructure.



21: 2023/01453. 22: 2023/02/03. 43: 2024/04/03
51: B22F; C22C
71: ALLA KASAKEWITSCH
72: ALLA KASAKEWITSCH, UWE ARLIC
33: DE 31: 10 2020 117 761.5 32: 2020-07-06
54: ALUMINIUM MATERIAL AND PROCESS FOR PRODUCING AN ALUMINIUM MATERIAL
00: -

The invention provides a metal matrix composite material produced from a powder mixture having a composition comprising aluminium with a purity of at least 95.0% and comprising hexagonal boron nitride and up to 2% of its weight of separating agent, characterized by up to 1% of its weight of hexagonal boron nitride. The invention additionally provides a process for producing such a metal matrix composite material, characterized by the steps of: – comminuting the aluminium powder mechanically or by water atomization or gas atomization and – mixing the material constituents, in powder form, and – processing the mixture by primary forming or extrusion or sintering or 3D printing to given an ingot, semifinished component or component part.



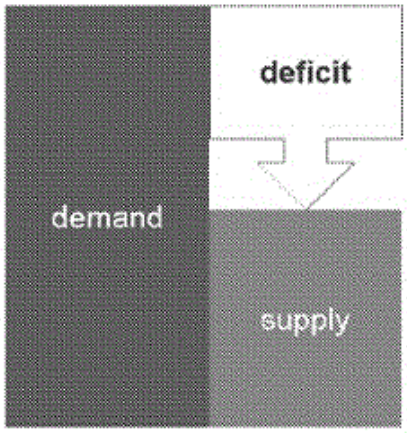
21: 2023/01499. 22: 2023/02/06. 43: 2024/04/09
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: PANCHANAN BHUNIA, NARAYANAN SUBRAHMANIAM
33: EP 31: 20192941.1 32: 2020-08-26
54: DETERGENT COMPOSITION COMPRISING ISETHIONATE SURFACTANT
00: -
The present invention relates to a laundry cleaning composition; in particular a solid detergent composition having a desirable foam profile during the laundering process. It is an object of the present invention to provide a detergent composition which provides good foam profile. It is another object of the present invention to provide a detergent composition which provides good cleaning performance. The present inventors have found that when a non-isethionate anionic surfactant is combined with an alkyl isethionate anionic surfactant and a foam suppressing agent in a carbonate built detergent composition, the composition provides excellent foam profile while maintaining good cleaning performance.

21: 2023/01526. 22: 2023/02/07. 43: 2024/04/19
51: C02F
71: EVOQUA WATER TECHNOLOGIES LLC
72: BRANDON MARTIN OLSON
33: US 31: 62/558,570 32: 2017-09-14

54: SIMULTANEOUS NITRIFICATION/DENITRIFICATION (SNDN) IN SEQUENCING BATCH REACTOR APPLICATIONS

00: -

A method of operating a sequencing batch reactor process includes introducing wastewater to be treated into the sequencing batch reactor and subjecting the wastewater to treatment in the sequencing batch reactor in an aerated anoxic mode in in which a quantity of oxygen is supplied at a level insufficient to meet a biological oxygen demand of the wastewater, but sufficient to cause simultaneous nitrification and denitrification reactions to occur in the wastewater.

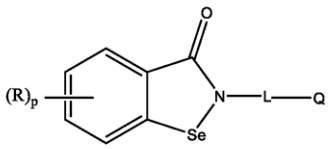


21: 2023/01533. 22: 2023/02/07. 43: 2024/04/30
51: A61K; C07D; A61P
71: SHANGHAI YUANXI MEDICINE CORP.
72: ZENG, Huihui, YIN, Hanwei
33: CN 31: 202010373848.4 32: 2020-05-06

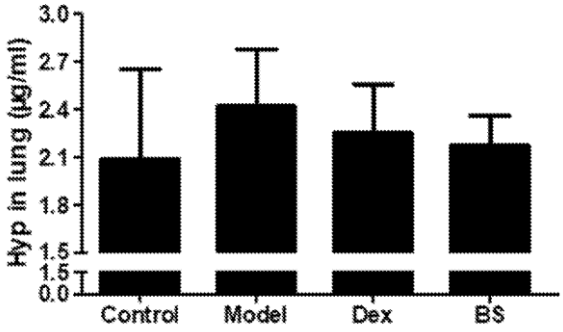
54: USE OF BENZISOSELAZOLE DERIVATIVE FOR ANTI-CORONAVIRUS AND CONTROL OF INTERSTITIAL LUNG DISEASE (ILD) RELATED TO CORONAVIRUS

00: -

A use of the benzisoselazole derivative of formula (I) for preparing an anti-coronavirus drug or a drug for treating diseases caused by coronaviruses. The benzisoselazole derivatives of the present invention can effectively inhibit the activity of 2019-nCoV 3CLpro proteolytic enzyme, thus inhibiting the activation of 2019-nCoV RNA polymerase, inhibiting virus replication, while also effectively treating interstitial lung disease (ILD) caused by coronavirus.



(I)

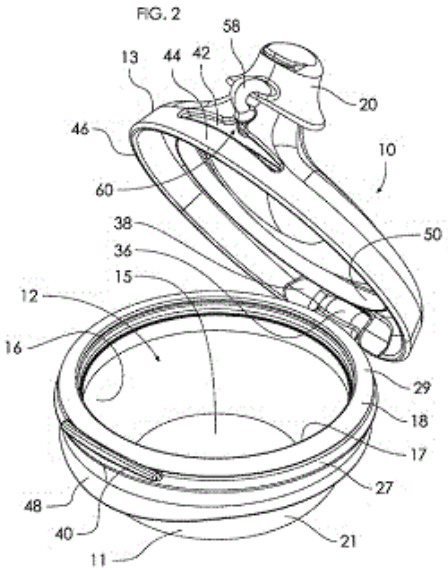


21: 2023/01536. 22: 2023/02/07. 43: 2024/04/19
51: B65D
71: B.BOX FOR KIDS DEVELOPMENTS PTY LTD
72: LISA EDLUND TJERNBERG, SYLVAIN JACQUES AMATOURY, VICTOR ZHEN JUN TOH
33: AU 31: 2020207877 32: 2020-07-24

54: A DISPENSABLE FOOD CONTAINER

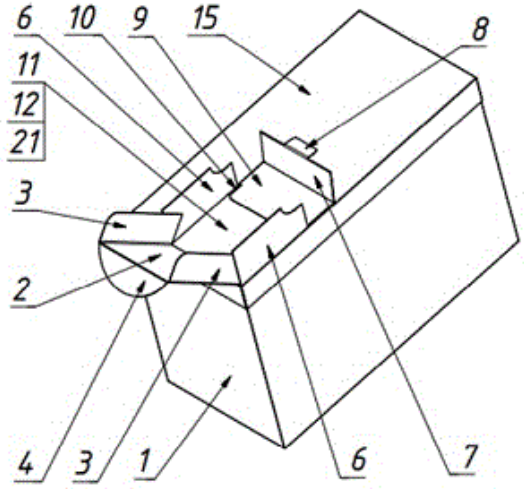
00: -

A dispensable food container (10), comprising a container body (11) having an interior for receipt of dispensable food, and a container lid (13). The container body (11) has a base (15) and an opening (17) opposite the base (15), and side walls 16 that are collapsible. The lid (13) has a closed condition in which it closes and seals the opening 16 of the container body (11) and an open condition in which the opening (16) of the container body (11) is exposed for access into the interior (12) of the container body (11). The lid (13) has a dispensing opening (19) which is in communication with the interior (12) of the container body (11) when the lid (13) is in the closed condition. In use, when the lid (13) is in the closed condition, the container body (11) is collapsible by pressure applied to the lid (13) and the base (15) in opposite directions to cause the side walls (16) to collapse and to force dispensable food within the interior (12) of the container body (11) through the dispensing opening (19).



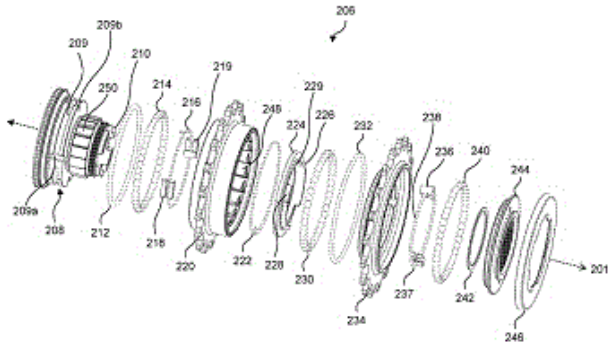
21: 2023/01600. 22: 2023/02/08. 43: 2024/04/03
51: B65D
71: ALEKSEY ILJICH NONIASHVILI
72: ALEKSEY ILJICH NONIASHVILI, ANDREY RUDOLFOVICH GOLDBERG
33: RU 31: 2020124170 32: 2020-07-21
54: ARRANGEMENT FOR DISPENSING THE CONTENTS OF A PACKET
00: -

The claimed technical solution relates to arrangements mountable on packets for dispensing the contents thereof. An arrangement for dispensing the contents of a packet, positioned over an opening in said packet, comprises: a spout with side walls; a release valve; and a support element, wherein, in a closed position, the spout is situated beneath the release valve and is held in place on the support element, the release valve being provided with flaps capable of holding the side walls of the spout in place and of forming an aperture when the spout is transferred into an open position. The spout is capable of tilting into an open position at an angle of more than 90 degrees, and the edges of the side walls of the spout are free of fastenings on three sides. The spout has a pull-out element, and the support element is provided with slits. In the closed position, the spout is held in place by its side walls, which are situated in the slits in the support element. In addition, the flaps of the release valve hold the spout in the closed position on the support element.

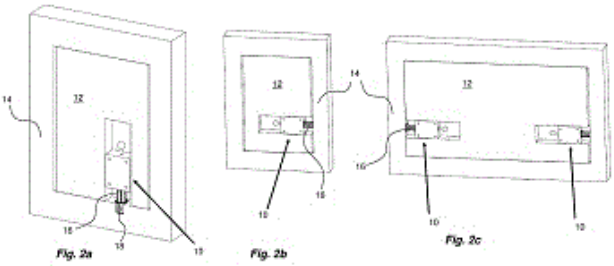


21: 2023/01602. 22: 2023/02/08. 43: 2024/04/03
51: B62M; F16D
71: WORLD BICYCLE RELIEF, NFP
72: BRIAN JORDAN
33: US 31: 63/063,672 32: 2020-08-10
54: MULTI-SPEED REAR DRIVE FOR A BICYCLE
00: -

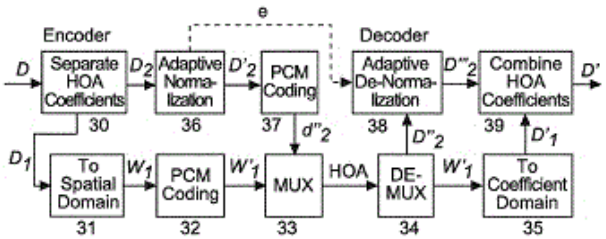
A system and method for simple transmission of a multi-speed bicycle is provided. A bicycle can have a transmission that can be toggled by a kickback shifting mechanism. A rear wheel hub can support a freewheel having a high speed gear sprocket and a low speed gear sprocket with dedicated chains to create dedicated gear-shifting. Rotating the pedal shaft in the non-drive direction approximately one-quarter rotation can toggle the transmission between the first gear ratio and the second gear ratio with a shifting surface that alternately allows driving engagement of the high speed gear sprocket with the rear wheel driver.



21: 2023/01604. 22: 2023/02/08. 43: 2024/04/09
51: E05B
71: AUTIDA AB
72: PETER STENLUND
33: SE 31: 2050402-3 32: 2020-04-08
54: SECURITY DEVICE
00: -
The present invention relates to a device (20) for protecting at least parts of a locking member movable between a resting position and a locking position, comprising a support structure (24); a plurality of plate-shaped wear-resistant elements (22) attached to said support structure; wherein said wear-resistant elements extend generally in the direction coinciding with the locking member, and wherein said wear-resistant elements comprise carbide material.



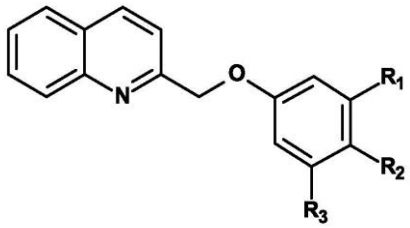
21: 2023/01623. 22: 2023/02/09. 43: 2024/04/11
51: G10L; H04S
71: DOLBY INTERNATIONAL AB
72: SVEN KORDON, ALEXANDER KRUEGER
33: EP 31: 13305986.5 32: 2013-07-11
54: METHOD AND APPARATUS FOR GENERATING FROM A COEFFICIENT DOMAIN REPRESENTATION OF HOA SIGNALS A MIXED SPATIAL/COEFFICIENT DOMAIN REPRESENTATION OF SAID HOA SIGNALS
00: -
There are two representations for Higher Order Ambisonics denoted HOA: spatial domain and coefficient domain. The invention generates from a coefficient domain representation a mixed spatial/coefficient domain representation, wherein the number of said HOA signals can be variable. A vector of coefficient domain signals is separated into a vector of coefficient domain signals having a constant number of HOA coefficients and a vector of coefficient domain signals having a variable number of HOA coefficients. The constant-number HOA coefficients vector is transformed to a corresponding spatial domain signal vector. In order to facilitate high- quality coding, without creating signal discontinuities the variable-number HOA coefficients vector of coefficient domain signals is adaptively normalised and multiplexed with the vector of spatial domain signals.



21: 2023/01624. 22: 2023/02/09. 43: 2024/04/11
51: B01J
71: JOHNSON MATTHEY DAVY TECHNOLOGIES LIMITED
72: JULIAN GRAY
33: GB 31: 1417462.7 32: 2014-10-02
54: ANNULAR CATALYST CARRIER CONTAINER FOR USE IN A TUBULAR REACTOR
00: -
A catalyst carrier for insertion in a reactor tube of a tubular reactor, said catalyst carrier comprising: a container for holding catalyst in use, said container having a bottom surface closing the container, and a top surface; a carrier outer wall extending from the bottom surface to the top surface; a seal extending from the container by a distance which extends beyond the carrier outer wall; said carrier outer wall having apertures located below the seal.

21: 2023/01649. 22: 2023/02/09. 43: 2024/04/17
51: A61K; A61P; C07D
71: Precision Bio-Therapeutics S.r.l.

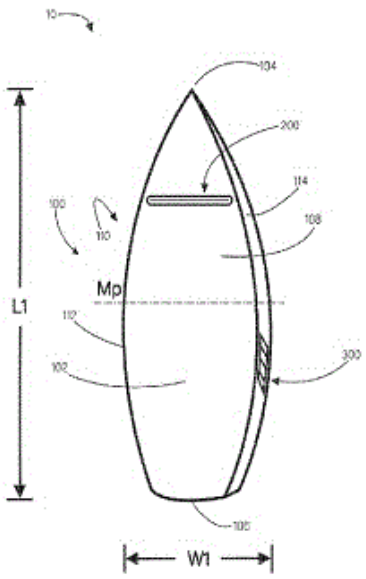
72: ZAMPELLA, Angela, FIORUCCI, Stefano
33: IT 31: 102020000019210 32: 2020-08-04
54: QUINOLINE COMPOUNDS AS SELECTIVE AND/OR DUAL MODULATORS OF BILE ACID RECEPTORS AND LEUKOTRIENE CYSTEINYL RECEPTORS
00: -
The present invention relates to compounds of formula (I), their pharmaceutical compositions and uses, in particular for the treatment and/or prevention of diseases mediated by bile acid receptors, FXR and GPBAR1, and cysteinyl leukotriene receptors (CysLTR).



(I)

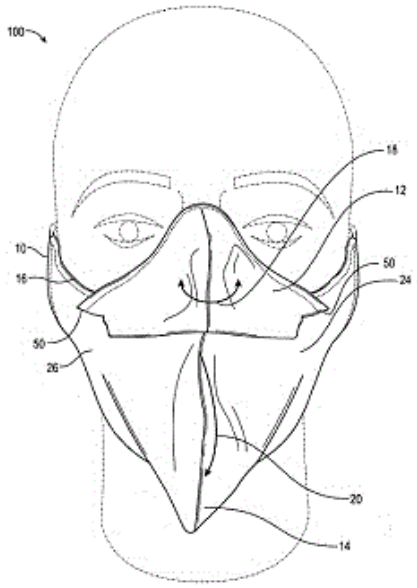
21: 2023/01672. 22: 2023/02/10. 43: 2024/04/19
51: A61K; C07D; A61P
71: SYROS PHARMACEUTICALS, INC.
72: JASON J MARINEAU, ROBERT ZAHLER, STEPHANE CIBLAT, DANA K WINTER, ANZHELIKA KABRO, STEPHANIE ROY, DARBY SCHMIDT, CLAUDIO CHUAQUI, GORAN MALOJCIC, HENRI PIRAS, KENNETH MATTHEW WHITMORE, KATE-LYN LUND, WILLIAM SINKO, KEVIN SPROTT
33: US 31: 62/361,852 32: 2016-07-13
54: INHIBITORS OF CYCLIN-DEPENDENT KINASE 7 (CDK7)
00: -
The present invention provides novel compounds of Formula (I) and pharmaceutically acceptable salts, solvates, hydrates, tautomers, stereoisomers, isotopically labeled derivatives, and compositions thereof. Also provided are methods and kits involving the compounds or compositions for treating or preventing proliferative diseases (e.g., cancers (e.g., leukemia, melanoma, multiple myeloma), benign neoplasms, angiogenesis, inflammatory diseases, autoinflammatory diseases, and autoimmune diseases) in a subject. Treatment of a subject with a proliferative disease using a compound or composition of the invention may inhibit the aberrant activity of cyclin-dependent kinase 7 (CDK7), and therefore, induce cellular apoptosis and/or inhibit transcription in the subject.

21: 2023/01698. 22: 2023/02/10. 43: 2024/04/19
51: B63B
71: BORJA RODRIGUEZ GUEVARA
72: BORJA RODRIGUEZ GUEVARA
33: US 31: 17/002,631 32: 2020-08-25
54: WATERCRAFT SYSTEM INCLUDING WATER AND/OR AIR PASSAGEWAYS
00: -
A watercraft system including one or more air passageways and/or one or more water passageways is provided. The air passageways may extend from an upper surface of the watercraft, through the body of the watercraft, to an underneath surface of the watercraft. The water passageways may extend from an underneath forward or side portion on the watercraft, through the body of the watercraft, to a rear portion of the watercraft. The air and/or water passageways may be constricting from the inlets to the outlets so that the air and/or water is accelerated through the passageways during use of the craft. In this way, the release of the accelerated air and/or water decreases the craft's drag and provides the craft a forward thrust.

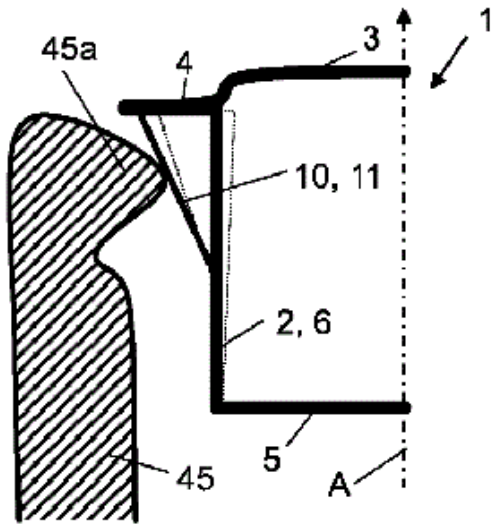


21: 2023/01699. 22: 2023/02/10. 43: 2024/04/19
51: A41D; A62B
71: RODAN ENTERPRISES, LLC, RONALD K RUSSIKOFF
72: RONALD K RUSSIKOFF

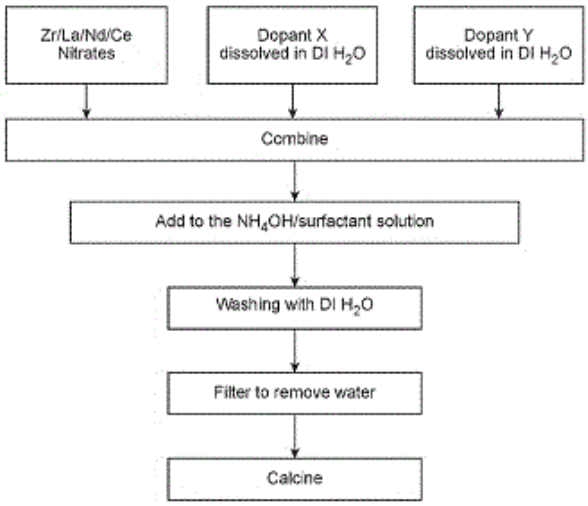
33: US 31: 63/103,125 32: 2020-07-17
54: PROTECTIVE FACE MASK
00: -
An improved protective face mask is disclosed having separate chambers for the nose and mouth thereby creating separate air passages for air flow and better circulation of clean air flow for breathing. The mask comprises a first chamber made to form and fit upon the nose of the wearer having a first air passage and a second chamber formed to cover and contain the mouth of the wearer having a second air passage for directing air flow therein. The mask includes a secured separation means between the first chamber and the second chamber, and an angled directional cavity in the second chamber extending downwards from mouth area towards chin area for creating the second air passage to direct the air flow.



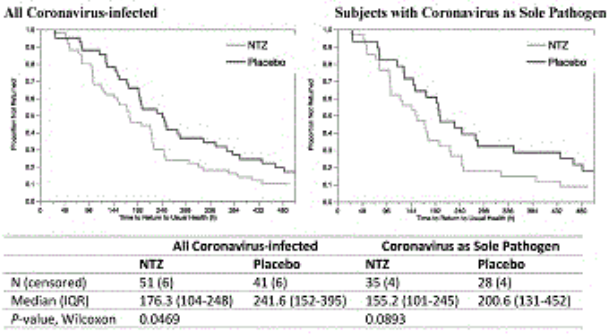
21: 2023/01787. 22: 2023/02/14. 43: 2024/04/08
51: B65D
71: TCHIBO GMBH
72: RÜDIGER TERNITE, BRÖCKEL, Jens
33: EP 31: 20191803.4 32: 2020-08-19
54: SINGLE-SERVE CAPSULE MAIN BODY AND SINGLE-SERVE CAPSULE FOR A BEVERAGE PREPARATION MACHINE AND ASSOCIATED METHOD
00: -
The single-serve capsule main body (2) defines a directional axis (A) and can be filled with an extractable material. It comprises: a base region (5); a peripheral side wall (6) which adjoins the base region (5) and has an outer surface (6a); and a peripheral collar region (7) which adjoins the side wall (6) and defines an opening (8). The axis (A) runs centrally through the base region (5) and through the opening (8) and defines an axial direction extending from the base region (5) and through the opening (8). A distance measured perpendicularly to the axis (A) is referred to as an axial distance (r), and the side wall (6) has at least one ramp element (10) which defines the at least one ramp region (11) in which the axial distance (r) of the outer surface (6a) increases in the axial direction.



21: 2023/01858. 22: 2023/02/15. 43: 2024/04/19
51: B01D; B01J
71: NEO PERFORMANCE MATERIALS (SINGAPORE) PTE. LTD.
72: SZU HWEE NG, SUZI DENG, PERLYN KOH, STEFFI TAN
33: US 31: 63/064,610 32: 2020-08-12
54: OXYGEN STORAGE CAPACITY ENHANCED COMPOSITIONS
00: -
Disclosed herein are compositions having enhanced oxygen storage capacity (OSC). The OSC enhanced compositions contain cerium, zirconium, lanthanum, and neodymium, and a dopant element selected from the group consisting of Ti, Mn, Fe, Co, Cu, Zn, Ga, Ge, Ta, W, Mo, Nb, In, Sn, Ba, and mixtures thereof. In certain embodiments, these compositions contain two dopants. In certain embodiments of these compositions, the compositions comprising cerium, zirconium, lanthanum, and neodymium and one or more dopant elements have an OSC after aging at 1000°C for 10 hours which is improved by 1 to 50%, compared to an undoped composition comprising cerium, zirconium, lanthanum, and neodymium. Aging can be conducted in an air environment. Further disclosed are processes of producing these compositions having enhanced oxygen storage capacity (OSC). The compositions can be used as a catalyst.

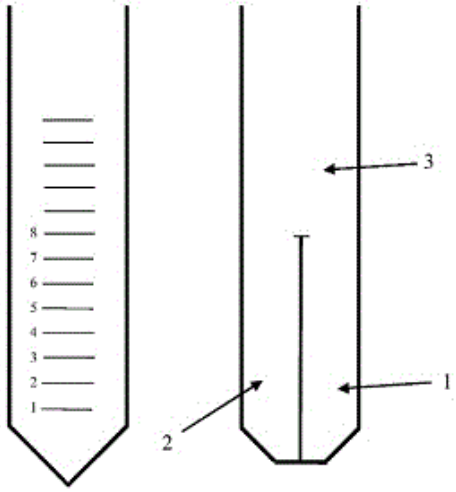


21: 2023/01860. 22: 2023/02/15. 43: 2024/04/19
51: A61K; A61P
71: ROMARK LABORATORIES L.C.
72: JEAN-FRANCOIS ROSSIGNOL
33: US 31: 63/069,313 32: 2020-08-24
54: USE OF THIAZOLIDES AGAINST CORONAVIRUSES
00: -
Disclosed is use of thiazolides, such as nitazoxanide and/or tizoxanide, against viruses belonging to the Coronaviridae family, such as viruses belonging to the Orthocoronavirinae subfamily.



	All Coronavirus-infected		Coronavirus as Sole Pathogen	
	NTZ	Placebo	NTZ	Placebo
N (censored)	51 (6)	41 (6)	35 (4)	28 (4)
Median (IQR)	176.3 (104-248)	241.6 (152-395)	155.2 (101-245)	200.6 (131-452)
P-value, Wilcoxon	0.0469		0.0893	

21: 2023/01861. 22: 2023/02/15. 43: 2024/04/08
51: B01F
71: THE GLOBAL ALLIANCE FOR TB DRUG DEVELOPMENT, INC.
72: RAJNEESH TANEJA, JOSEPH ANTHONY SCARIM
33: US 31: 63/073,049 32: 2020-09-01
33: US 31: 63/167,988 32: 2021-03-30
54: METHODS OF PREPARING MODIFIED DOSAGE FORMS AND RELATED COMPONENTS
00: -
Provided are methods of preparing a homogeneous mixture from a solid dosage form in settings including a point of care setting. The methods include obtaining a solid dosage form comprising a drug product, adding the solid dosage form to a container having at least one flexible section, adding a liquid to the container, mixing the solid dosage form with the liquid to disperse, disintegrate, suspend, and/or dissolve the solid dosage form thereby creating a homogeneous mixture. Also provided are containers and devices for use in such methods.



21: 2023/01915. 22: 2023/02/16. 43: 2024/04/19
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: JAMIE LYNN MILLER, MATTHEW JOSEPH RIENZO
33: EP 31: 20192090.7 32: 2020-08-21
54: PRESERVATIVE SYSTEMS AND COMPOSITIONS COMPRISING THE SAME
00: -
The invention is directed to a natural preservative system that comprises a substituted amino acid and with benzoic acid and/or a derivative thereof. The preservative system provides superior antimicrobial benefits and color stability to end use compositions even when the compositions are formulated to have a pH in the range of 3.5 to 8.2.

21: 2023/01919. 22: 2023/02/16. 43: 2024/04/08
51: B41M; B42D
71: DE LA RUE INTERNATIONAL LIMITED

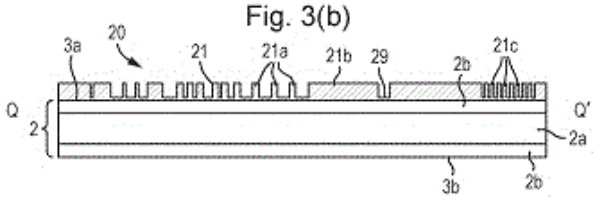
72: JOHN GODFREY, REBECCA LOCKE
33: GB 31: 2014325.1 32: 2020-09-11
33: GB 31: 2014326.9 32: 2020-09-11
33: GB 31: 2014327.7 32: 2020-09-11
33: GB 31: 2014328.5 32: 2020-09-11
33: GB 31: 2014329.3 32: 2020-09-11
33: GB 31: 2014330.1 32: 2020-09-11
33: GB 31: 2014331.9 32: 2020-09-11

54: SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF

00: -

A security device is provided, comprising one or more surface relief structure(s), each formed of one or more cured material(s), the surface relief structure(s) being disposed on a substantially flat substrate and defining a plurality of raised elements spaced from one another, the raised elements corresponding to elements of an image, whereby the plurality of raised elements varies across the surface relief structure(s) so as to exhibit a multi-tonal version of the image. Methods of manufacturing such devices are also disclosed.

Fig. 3(b)



21: 2023/01921. 22: 2023/02/16. 43: 2024/04/19
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: PREM CHANDAR, TEANOOSH MOADDEL, AJAY SINGH NEGI, BHARATH PALANISAMY, TORAL PATEL, ANAT SHILOACH, SAPNA SINGH
33: IN 31: 202021041615 32: 2020-09-25

54: MOISTURIZING ANTIBACTERIAL COMPOSITION

00: -

A transparent antibacterial composition comprises water, alcohol, a humectant, and a sensory oil. A method of making a transparent antibacterial composition comprises combining a sensory oil and a humectant forming a first phase; combining water with an alcohol forming a second phase; combining the first phase and the second phase forming a third phase; and adding a neutralizer to the third phase, thereby forming the antibacterial composition.

21: 2023/01922. 22: 2023/02/16. 43: 2024/04/19
51: E21B
71: MINCON INTERNATIONAL LIMITED
72: BEN SEXTON, MARKKU KESKINIVA
33: IE 31: S2020/0186 32: 2020-08-19

54: FLAPPER VALVE FOR PERCUSSION DRILL TOOLS

00: -

The present invention relates to a flapper valve for a percussion drill tool. The valve comprises a first side engageable with a planar surface of an element of the percussion drill tool to alternately close first and second fluid flow paths of the percussion drill tool. The planar surface comprises first and second apertures in fluid communication with the first and second fluid flow paths, respectively. The first side of the flapper valve comprises a first planar portion and a second planar portion and a first curved tip portion intermediate the first and second planar portions. The flapper valve is pivotable about the first curved tip portion between a first position, in which the first planar portion of the flapper valve is in sealing contact with the planar surface to close the first aperture, and a second position, in which the second planar portion of the flapper valve is in sealing contact with the planar surface to close the second aperture.

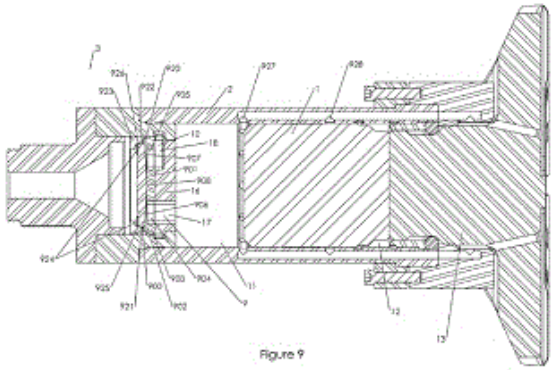
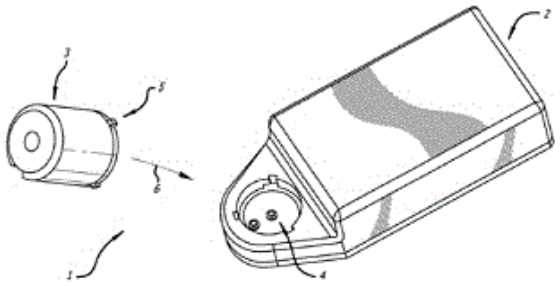


Figure 9

21: 2023/01973. 22: 2023/02/17. 43: 2024/04/19
51: A24B; A24F; A61M; B05B
71: SHAHEEN INNOVATIONS HOLDING LIMITED
72: IMAD LAHOUD, JEFF MACHOVEC, SAJID BHATTI, MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI, CLEMENT LAMOUREUX
33: US 31: 16/889,667 32: 2020-06-01
33: US 31: 17/065,992 32: 2020-10-08
33: US 31: 63/111,592 32: 2020-11-09

33: US 31: 17/122,025 32: 2020-12-15
33: EP 31: 20168245.7 32: 2020-04-06
54: CELL LYSIS SYSTEMS AND METHODS
00: -
A cell lysis device comprising a housing. The housing comprises an opening, an interference fit attachment, a sonication chamber and an ultrasonic transducer. The opening receives a sample container such that when the container is received by the opening, the opening is closed by the container to seal the housing. The interference fit attachment releasably attaches to a further interference fit attachment of a driver apparatus to releasably attach the housing to the driver apparatus. The sonication chamber is provided within the housing and is at least partly filled with an ultrasonic wave transfer medium. When the opening receives a sample container a part of the sample container projects into the transfer medium. The transducer generates ultrasonic waves in the transfer medium within the sonication chamber. The waves are transferred by the transfer medium from the transducer to the sample container to lyse cells when cells are contained within the sample container.



21: 2023/02076. 22: 2023/02/20. 43: 2024/04/19
51: F04D
71: XYLEM EUROPE GMBH
72: JAN WIKSTRÖM
33: EP 31: 20197445.8 32: 2020-09-22
54: OPEN IMPELLER FOR SUBMERGIBLE PUMP CONFIGURED FOR PUMPING LIQUID COMPRISING ABRASIVE MATTER
00: -
The invention relates to an open impeller (7) and a submergible pump configured for pumping liquid comprising abrasive matter and comprises such an open impeller (7). The open impeller (7) comprising a cover plate (11), a centrally located hub (12) and at least two spirally swept blades, each blade comprising a leading edge (14) adjacent the hub (12) and a trailing edge (15) at the periphery of the impeller (7) and a lower edge (16), wherein the lower edge (16) extends from the leading edge (14) to the trailing edge (15) and separates a suction side (17) of the blade from a pressure side (18) of the blade, and wherein the lower edge (16) is configured to be facing and located opposite a wear plate of said submergible pump, at least one blade comprising a winglet (19) at the lower edge (16), wherein the winglet (19) is connected to and projects from the suction side (17) of said at least one blade. The open impeller (7) is characterized in that said winglet (19) is located radially outside an inner radius of the impeller (7) and extends in the circumferential direction to the trailing edge (15) at the suctions side (17) of the blade located at a maximum radius (r_max) of the impeller (7), said winglet (19) has a lower wear surface (20) configured to be facing and located opposite the wear plate of the submergible pump, wherein said inner radius is equal to the largest of: the maximum radius (r_max) of the impeller (7) multiplied by 0,6, and an inlet radius of the impeller (7) multiplied by 1,2, wherein the inlet radius is taken at the interface between the leading edge (14) of the blade and the lower edge (16) of the blade at the suction side (17) of the blade.

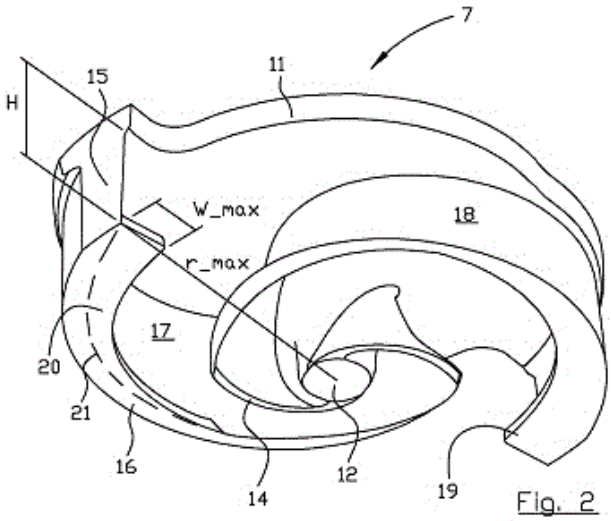
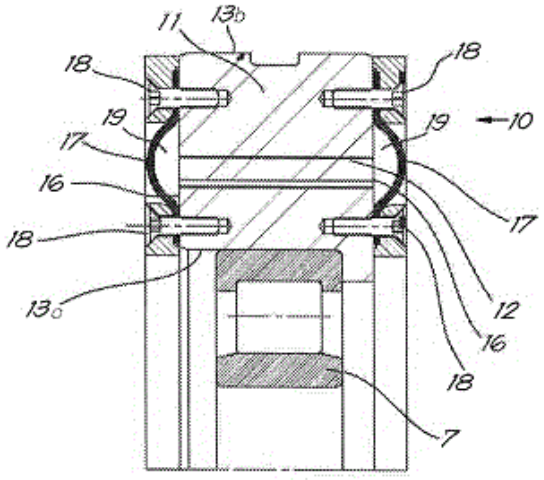


Fig. 2

21: 2023/02079. 22: 2023/02/20. 43: 2024/04/19
51: F04D; F16C; F16F

71: ATLAS COPCO AIRPOWER, NAAMLOZE VENNOOTSCHAP
72: BJÖRN VERRELST, NILS VERCAUTEREN, HANS MEEUS, SMAIL EL BEJJATI
33: BE 31: 2020/5728 32: 2020-10-19
54: MULTISTAGE CENTRIFUGAL COMPRESSOR
00: -
Multistage centrifugal compressor provided with a shaft (2) with blades (3), which is mounted in a housing (4) with bearings (7), characterised in that at least one bearing (7) is provided with a bearing damper element (10) consisting of a ring (11) arranged between the shaft (2) and the bearing (7), wherein the ring (11) comprises slots (12) through the thickness of the ring (11) in the axial direction (X-X') and at a distance from the radially-directed inner and outer surface (13a, 13b) of the ring (11), wherein the slots (12) are at least partially overlapping, wherein: A) the slots (12) are filled with a liquid, wherein the axial annular surfaces (16) are dosed off by means of a protective cap (17); or: B) at least one of the annular surfaces (16) is provided with a viscoelastic material (20) or hysteretic damping material (20) sandwiched between two concentric discs (21), which discs (21) are attached to the ring (11); or: C) the slots (12) are filled with a viscoelastic material.



21: 2023/02080. 22: 2023/02/20. 43: 2024/04/19
51: A61N
71: NEUVANA, LLC
72: AMI BRANNON, KERMIT FALK, VINCENT MANOPOLI
33: US 31: 63/090,496 32: 2020-10-12

54: METHOD FOR CALIBRATION OF TRANSCUTANEOUS NERVE STIMULATOR
00: -
Method for calibrating a nerve stimulation device comprising (a) providing user with an initial stimulus at a sub-sensory level and obtaining feedback regarding whether stimulus is felt; (b) if it is not felt, increasing the stimulation level by a first level variation and again obtaining feedback; (c) repeating the previous step until feeling the stimulus is reported; (d) reducing stimulus by the initial level variation; (e) repeating the process from the previously established level while using a second level variation is used which is smaller than the first level variation; (f) once stimulus feeling is reported, the level is again reduced by the second level variation; (g) this level, achieved after the second "crossing" of the threshold, can be used as the sensory threshold value; (h) additional calibration rounds can be conducted using ever-lower level variations for each subsequent round to more accurately the sensory threshold is determined.

Step	Stimulation Level	Level Variation (to be applied at next iteration)	User Reports Feeling Stimulus?
1	0 Volts	First (7 Volts)	No
2	7 Volts	First (7 Volts)	No
3	14 Volts	First (7 Volts)	No
4	21 Volts	Second (1 Volt)	Yes (decrease level by 7 volts)
5	14 Volts	Second (1 Volt)	No
6	15 Volts	Second (1 Volt)	No
7	16 Volts	Third (0.25 Volt)	Yes (decrease level by 1 volt)
8	15.0 Volts	Third (0.25 Volt)	No
9	15.25 Volts	Third (0.25 Volt)	No
10	15.5 Volts	Third (0.25 Volt)	Yes (decrease level by 0.25 volts)
11	15.25	N/A	N/A

21: 2023/02131. 22: 2023/02/21. 43: 2024/04/19
51: C03B
71: OWENS-BROCKWAY GLASS CONTAINER INC.
72: CARL L FAYERWEATHER, DALE A GAERKE, ROBERT ROTH
33: US 31: 15/879,233 32: 2018-01-24
54: SYSTEM FOR PREHEATING GLASS MELTING FURNACE BATCH MATERIALS
00: -

A system for preheating batch materials prior to delivery to a glass melting furnace. The system comprises a preheater for receiving unheated batch materials and delivering heated batch materials. The preheater includes a primary outlet for exhausting fluid from the preheater and a primary inlet for receiving exhaust fluids from the furnace and exhaust fluids recirculated from the primary outlet. The system further includes a charger for receiving the heated batch materials from the preheater and feed the heated batch materials to the glass melting furnace, a first recirculation duct providing exhaust fluids from the charger to a second recirculation duct coupled to the inlet of the preheater and carrying the exhaust fluids from the glass melting furnace and the exhaust fluids recirculated from the primary outlet of the preheater. The system also includes a first temperature sensor which generates a first temperature signal indicative of a first temperature of fluids within the second recirculation duct, a second temperature sensor which generates a second temperature signal indicative of a second temperature of the fluids within the second recirculation duct at a location in the duct upstream of where the first temperature is obtained, a valve which controls an amount of fluid in the second recirculation duct that is diverted to the charger, and a charger temperature controller which controls the valve responsive to the first and second temperatures.

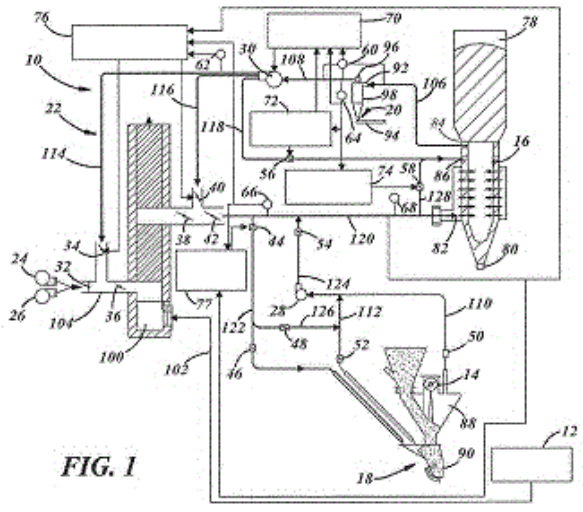


FIG. 1

21: 2023/02155. 22: 2023/02/21. 43: 2024/04/10
51: A61K; A61P
71: XIAMEN AMOYTOP BIOTECH CO., LTD., BIOSTEED GENE TRANSFORMATION TECH. CO., LTD.
72: LI SUN, WEIDONG ZHOU, XIAOJIN LIAO, LU ZHUANG, RUOYI HE, TING ZHOU, LINGYING ZENG, MEIHUA YANG, SHIYUAN WANG, JIEHUA ZHENG, LINZHONG ZHANG
33: CN 31: PCT/CN2020/103613 32: 2020-07-22
54: INTERFERON-BASED CANCER TREATMENT METHOD AND PHARMACEUTICAL COMPOSITION
00: -
The present invention relates to the field of biological medicines, and discloses a pharmaceutical composition for treating cancer, comprising an interferon-based therapeutic agent and an additional anticancer agent. The present invention further discloses an application method for the pharmaceutical composition.

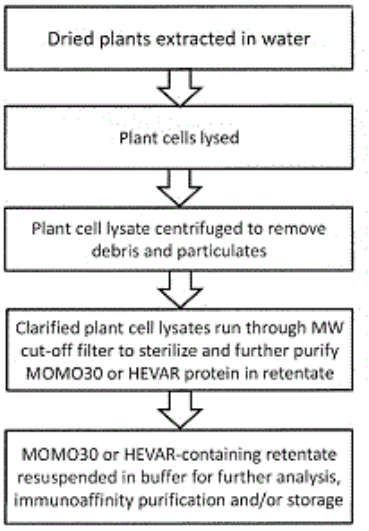
21: 2023/02158. 22: 2023/02/21. 43: 2024/04/23
51: A61K; C07K; A61P
71: CEPHALON LLC
72: ANNA MIKAELA BRACKEN, ADAM CLARKE, BRIDGET A COOKSEY, ANTHONY GERARD DOYLE, MARK TERENCE LIDDAMENT, MATTHEW POLLARD, LYNN POULTON, ANNA MARIA MATILDA QUIGLEY, JULIA ROZENFELD, MARTA SZABAT
33: US 31: 63/067,259 32: 2020-08-18
54: ANTI-PAR-2 ANTIBODIES AND METHODS OF USE THEREOF
00: -
The present disclosure provides antibodies and antigen-binding fragments thereof that specifically bind to human PAR-2 and compositions comprising such antibodies or antigen-binding fragments thereof. In a particular aspect, the antibodies or antigen-binding fragments thereof that specifically bind to human PAR-2 block the interaction between a PAR-2 activating ligand and an extracellular domain of PAR-2, and/or blocks PAR-2 activation by a PAR-2 activating ligand, In further aspects, the antibodies or antigen-binding fragments can be used to treat diseases or conditions associated with increased expression of PAR-2 and/or diseases or conditions that can be alleviated by antagonizing activation of PAR-2 by a PAR-2 activating ligand (e.g., airway diseases, skin diseases, cancer, orofacial granulomatosis, inflammatory conditions,

and pain associated with various diseases or conditions).

21: 2023/02161. 22: 2023/02/21. 43: 2024/04/22
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: PREM CHANDAR, GABRIELLA SATCHI OLIVIA FREY, LEI HUANG, HOWARD BRUCE KAISERMAN, JAMIE LYNN MILLER, TEANOOSH MOADDEL, TORAL PATEL, ANAT SHILOACH
33: US 31: 63/083,542 32: 2020-09-25
54: MOISTURIZING ANTIBACTERIAL COMPOSITION
00: -
An antibacterial composition comprises water, alcohol, a moisturizing oil, wherein at least 50% of droplets of the moisturizing oil present in the antibacterial composition have a particle size of 5 to 25 micrometers, preferably 6 to 15 micrometers; and optionally a sensory oil. A method of making an antibacterial composition comprises dispersing a thickening agent in water forming a first phase; combining a moisturizing oil, a sensory oil, and a humectant forming a second phase; combining the first phase with an alcohol forming a third phase; adding the second phase to the third phase, forming a forth phase; and adding a neutralizer to the fourth phase, thereby forming the antibacterial composition.

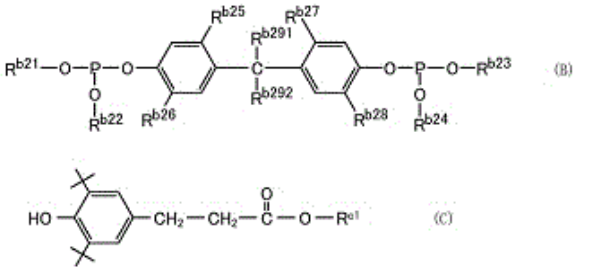
21: 2023/02162. 22: 2023/02/21. 43: 2024/04/22
51: A01N; A61K; A61P; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: PREM CHANDAR, BIVASH, RANJAN DASGUPTA, GABRIELLA SATCHI OLIVIA FREY, TEANOOSH MOADDEL, ANAT SHILOACH
33: US 31: 63/083,570 32: 2020-09-25
54: MOISTURIZING ANTIBACTERIAL COMPOSITION
00: -
An antibacterial composition comprises water, alcohol, a thickening agent, and a moisturizing oil, wherein at least 50% of droplets of the moisturizing oil present in the antibacterial composition have a particle size of 5 micrometers to 10 millimeters. A method of making an antibacterial composition comprises dispersing a thickening agent in water to form a first phase; combining a moisturizing oil and a humectant to form a second phase; combining the first phase with an alcohol to form a third phase; adding the second phase to the third phase, forming a fourth phase; and adding a neutralizer to the fourth phase, thereby forming the antibacterial composition.

21: 2023/02276. 22: 2023/02/22. 43: 2024/04/09
51: A61K; C07K; A61P
71: Morehouse School of Medicine
72: MICHAEL POWELL, ERICK VIDJIN' AGNIH GBODOSSU
33: US 31: 16/996,153 32: 2020-08-18
33: US 31: 17/342,897 32: 2021-06-09
54: METHODS AND COMPOSITIONS FOR TREATING CORONAVIRUS INFECTIONS
00: -
The present application relates to a compositions and methods comprising or expressing a HEVAR or MOMO30 protein derived from Momordica balsamina. The HEVAR or MOMO30 protein and/or a nucleic acid encoding the same may be used in methods for treating or preventing viral infections, particularly those caused by coronaviruses, such as SARS-CoV-2.



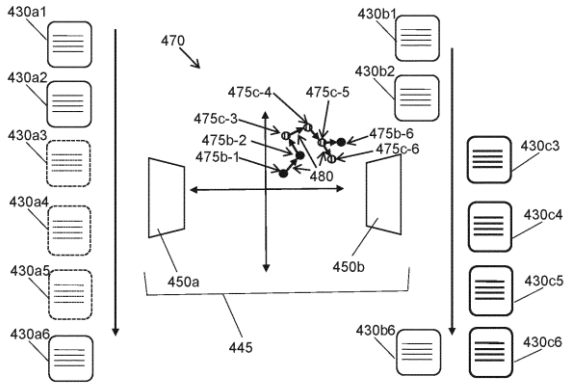
21: 2023/02277. 22: 2023/02/22. 43: 2024/04/19
51: C10M; C10N
71: CITIZEN WATCH CO., LTD.
72: YUJI AKAO
33: JP 31: 2020-151077 32: 2020-09-09
54: INDUSTRIAL OIL COMPOSITION
00: -

The industrial oil composition includes a mineral oil or a synthetic oil as a base oil and a neutral phosphorous acid ester derivative represented by formula (B) and a 2,6-di-t-butylphenol derivative represented by formula (C) as antioxidants. In formula (B), R^{b21}-R^{b24} each independently represent a C10-16 aliphatic hydrocarbon group. In formula (C), R^{c1} is a C1-12 linear or branched alkyl group.

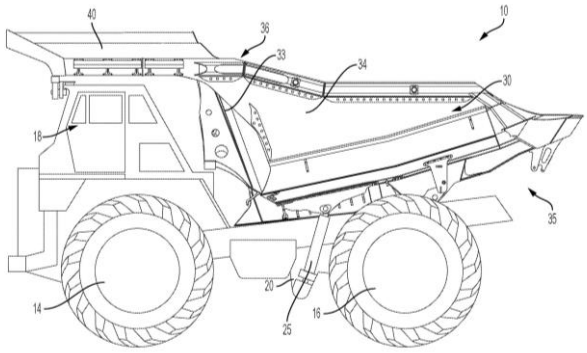


21: 2023/02279. 22: 2023/02/22. 43: 2024/04/19
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: STEPHEN NORMAN BATCHELOR, MATTHEW LLOYD PARRY, MATTHEW RHYS THOMAS
33: EP 31: 20198171.9 32: 2020-09-24
54: COMPOSITION
00: -
An aqueous laundry liquid detergent comprising alkyl ether sulphate surfactant and alkyl ethoxylate surfactant, wherein either at least 10% wt. of the alkyl ether sulphate surfactant is C16 or C18 alkyl, or at least 10% wt. of the alkyl ethoxylate surfactant is C16 or C18 alkyl, from 0.01 to 3% wt. of the composition benzoate salt and wherein the composition has a pH of from 5.0 to 7.0.

21: 2023/02396. 22: 2023/02/23. 43: 2024/06/07
51: G06K; G06T; H04N; G06N
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: ICKIN, Selim, HEIKKILÄ, Gunnar, LINDERO, David
54: GENERATING AND PROCESSING VIDEO DATA
00: -
Embodiments disclosed herein relate to methods and apparatus for generating video frames when there is a change in the rate of received video data. In one embodiment there is provided a method of processing video data which comprises generating a video frame using received video data (510), encoding said video frame into a latent vector using an encoder part of a generative model (520), modifying the latent vector (525) and decoding the modified latent vector using a decoder part of the generative model to generate a new video frame (530) in response to determining a reduction in generating the video frames using the received video data (515).

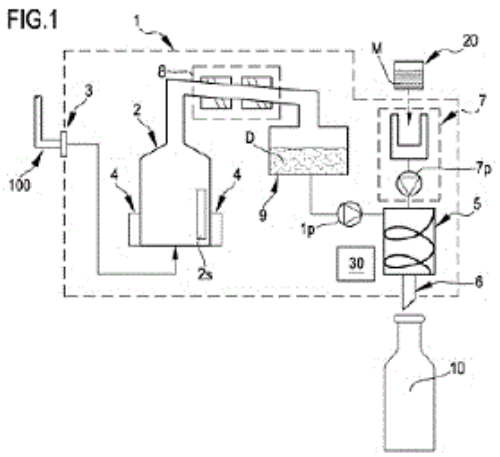


21: 2023/02402. 22: 2023/02/23. 43: 2024/04/19
51: B60P; B62D
71: Caterpillar Inc.
72: ARUL, Samuel J.
33: US 31: 16/945,819 32: 2020-08-01
54: DUMP BODY FOR HAUL TRUCK
00: -
A dump body comprising a front wall, a canopy extending from the front wall in a first direction, and a bottom wall extending from the front wall in a second direction different from the first direction. The front wall, the canopy, and the bottom wall can form an interface configured to receive at least one pair of side walls. The bottom wall can have a convex shape in a transverse direction of the dump body and/or a longitudinal direction of the dump body. The bottom wall can be inclined according to one or more distinct angles from a front edge of the bottom wall to a rear edge of the bottom wall.



21: 2023/02511. 22: 2023/02/24. 43: 2024/04/09
51: B01D; B01F; C02F
71: 77 VISION WAY LTD
72: MAURO GAZZELLI, ALBERTO COZZI
54: DEVICE FOR DISTRIBUTING MINERALIZED WATER AND ASSOCIATED METHOD
00: -
A device (1) for distributing mineralized water, said device comprising: - an inlet (3), for loading water from an external source (100); - a distillation unit (2), connected to the inlet (3) and configured to provide a distillation of an amount of water at least partially through heating, wherein said distillation unit (2) in turn comprises, or is operatively connected to, at least a heater (4) configured for providing heat in an amount sufficient to heat the amount of water at least up to a boiling temperature; - a water distributor (5) configured for transferring a predetermined amount of distilled water (D) extracted from the distillation unit (2), to a removable container (10), the water distributor (5) being provided with an outlet nozzle or aperture (6) configured to face in use on said container (10); - a mineralization unit (7) interposed between the distillation unit (2) and the outlet nozzle or aperture (6), said mineralization unit (7) being configured for accessing the inner cavity of a disposable capsule (20), containing a mineralized fluid solution or powder (M) in said cavity, for extracting at least part of said mineralized fluid solution or powder (M) from the capsule (20) and/or being configured for emptying the capsule (20) from the mineralized fluid solution or powder (M), and transferring at least part of the mineralized fluid solution or powder (M) from the capsule (20) to the water distributor (5); - the device, optionally through the water distributor (5), being configured to mix the mineralized fluid solution or powder (M) with the predetermined amount of distilled water (D) transferred by the water distributor (5) to the removable container (10).

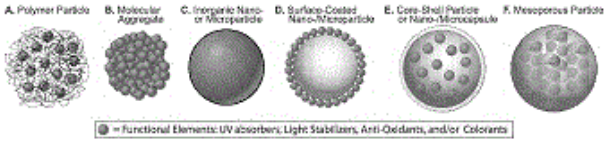
FIG.1



21: 2023/02554. 22: 2023/02/24. 43: 2024/04/22
51: A61K; C07D; A61P
71: KANAPH THERAPEUTICS INC., KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY
72: YOUNG SOOK SHIN (DECEASED), SANG KYUN LIM, YERI LEE, DONGGEON KIM, SOO BONG HAN, CHANG SOO YUN, HYUN JIN KIM, JOO YOUN LEE, HYUK LEE, SIKWANG SEONG
33: KR 31: 10-2020-0105545 32: 2020-08-21
54: NOVEL COMPOUNDS HAVING INHIBITORY ACTIVITY ON PROSTAGLANDIN E2 RECEPTOR AND USES THEREOF
00: -
The present application relates to a novel compound having inhibitory activity on prostaglandin E_2 receptor and uses thereof, and provides a compound represented by formula I, a solvate, stereoisomer or pharmaceutically acceptable salt thereof, a pharmaceutical composition comprising the same, and a method of using the same.

21: 2023/02556. 22: 2023/02/24. 43: 2024/04/22
51: A61K; A61Q
71: THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE
72: CARSON J BRUNS, JESSE BUTTERFIELD
33: US 31: 63/071,782 32: 2020-08-28
54: ULTRAVIOLET-ABSORPTIVE NANOPARTICLES AND MICROPARTICLES FOR INTRADERMAL USE
00: -
Biocompatible UV-ab sorbing nanoparticles or microparticles that can be embedded in the skin using techniques such as those used to create a tattoo with tattoo ink. The "tattoo" using the biocompatible UV-ab sorbing nanoparticles or microparticles provides skin protection against sunburn, photoaging, and skin cancers in a permanent or semi-permanent way, but remain clear in the visible light spectrum, or matched closely to

the user's specific skin tone. These particles can be solid uniform UV-ab sorb ers, microencapsulated UV-ab sorb ers, or UV-ab sorbing material embedded in or coated on solid materials. Long-term sun protection from an invisible (does not change the color of the skin) material, embedded in the skin (dermis layer).

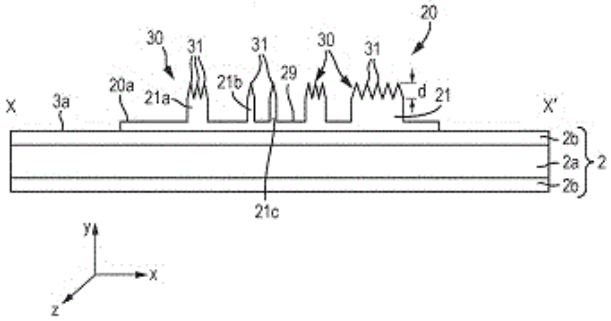


21: 2023/02558. 22: 2023/02/24. 43: 2024/04/22
51: B41M; B42D
71: DE LA RUE INTERNATIONAL LIMITED
72: JOHN GODFREY, REBECCA LOCKE
33: GB 31: 2014325.1 32: 2020-09-11
33: GB 31: 2014326.9 32: 2020-09-11
33: GB 31: 2014327.7 32: 2020-09-11
33: GB 31: 2014328.5 32: 2020-09-11
33: GB 31: 2014329.3 32: 2020-09-11
33: GB 31: 2014330.1 32: 2020-09-11
33: GB 31: 2014331.9 32: 2020-09-11

54: SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF

00: -

A security device is provided, comprising: a surface relief structure formed of one or more cured materials on a substantially flat substrate, the surface relief structure defining a primary set of relief elements at a first scale and a secondary set of relief elements at a second scale which is smaller than the first, the primary set of relief elements including a plurality of raised protrusions spaced by recesses and the secondary set of relief elements being disposed on the tops of at least one of the raised protrusions and/or in at least one of the recesses. A security device comprising a structure formed of cured material(s) and an embossed structure is also provided. Methods of manufacture are also disclosed.

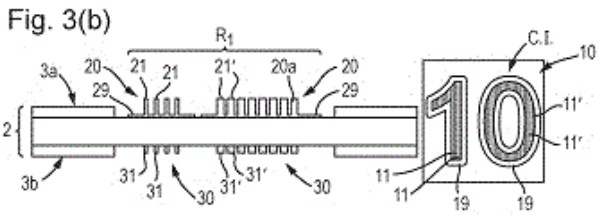


21: 2023/02559. 22: 2023/02/24. 43: 2024/04/23
51: B41M; B42D
71: DE LA RUE INTERNATIONAL LIMITED
72: JOHN GODFREY, REBECCA LOCKE
33: GB 31: 2014325.1 32: 2020-09-11
33: GB 31: 2014326.9 32: 2020-09-11
33: GB 31: 2014327.7 32: 2020-09-11
33: GB 31: 2014328.5 32: 2020-09-11
33: GB 31: 2014329.3 32: 2020-09-11
33: GB 31: 2014330.1 32: 2020-09-11
33: GB 31: 2014331.9 32: 2020-09-11

54: SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF

00: -

A security device is disclosed, comprising: a substrate having opposing first and second surfaces; on the first surface of the substrate, a surface relief structure formed of one or more cured, at least semi-transparent material(s); and on the second surface of the substrate, a print layer. In at least a first region of the security device in at least part of which the substrate is transparent or translucent, the surface relief structure and the print layer are each defined in accordance with a common image and are in alignment with one another, the surface relief structure exhibiting a first set of feature(s) of the common image and the print layer exhibiting a second set of feature(s) of the common image. The common image is exhibited by the surface relief structure and the print layer in combination with one another and the surface relief structure provides tactility to the common image.



21: 2023/02560. 22: 2023/02/24. 43: 2024/04/22
51: A61M; A62B
71: OXFO CORPORATION
72: CARLOS FERNANDO BAZOBERRY, BRENT H YOUNG
33: US 31: 63/056,944 32: 2020-07-27
33: US 31: 17/068,718 32: 2020-10-12
54: AUTOMATIC SYSTEM FOR THE CONSERVATION OF OXYGEN AND OTHER SUBSTANCES
00: -
A system (10) and method for conserving oxygen and other gases supplied to a recipient. A supply conduit (408) supplies gas from a source (406) to a reservoir (404), which retains a volume of gas at ambient pressure. A conduit (422) supplies gas from the reservoir (404) to the recipient. An inflation detection system, such as an electro-mechanical system or a contactless system (456), detects when the reservoir (404) is below a state of inflation and when the reservoir (404) is inflated to the state of inflation. A valve system prevents gas from flowing from the source (406) and into the reservoir (404) when the reservoir (404) is at the predetermined state of inflation, and the valve system permits gas to flow from the source (406) into the reservoir (404) when the reservoir (404) is below the predetermined state of inflation whereby gas within the reservoir (404) can be continually replenished without pressurization above ambient pressure.

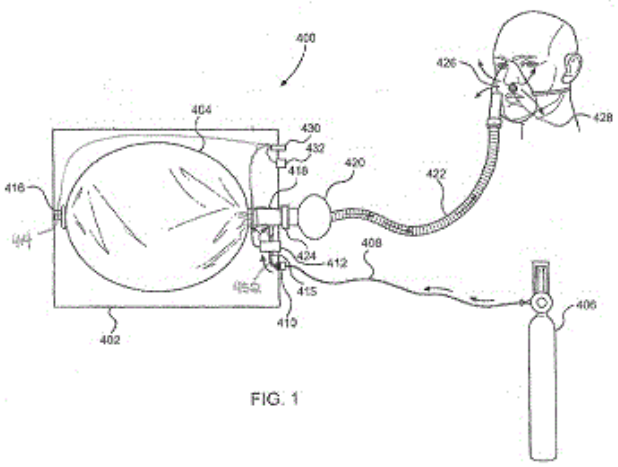
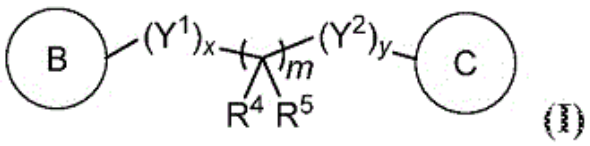


FIG. 1

21: 2023/02893. 22: 2023/02/27. 43: 2024/04/08
51: A61K; C07D; A61P
71: THE SCRIPPS RESEARCH INSTITUTE
72: H. MICHAEL PETRASSI, LUKE L LAIRSON, EMILY N CHIN, PETER G SCHULTZ, CHENGUANG YU, BAIYUAN YANG, VIRGINIA HEATHER SHARRON GRANT, YONGKAI LI, ALEXANDER PACHECO, ALAN CHU, KRISTEN JOHNSON, ARNAB K CHATTERJEE
33: US 31: 62/706,683 32: 2020-09-02
54: AGONISTS OF STIMULATOR OF INTERFERON GENES STING
00: -
Disclosed herein are compounds of Formula (I), pharmaceutically acceptable salts thereof, and their pharmaceutical compositions: The compounds are useful as agonists of Stimulator of Interferon Genes (STING), such as in a method of treating a tumor.



21: 2023/03182. 22: 2023/02/28. 43: 2024/04/22
51: E05B; G07C
71: AUTIDA AB
72: PETER STENLUND
33: SE 31: 2050495-7 32: 2020-04-30
54: LOCKING DETECTION DEVICE
00: -
The present invention relates to a device for detection of status of a locking system, which locking system comprises a locking bolt movable between a resting position and a locking position, comprising a

cavity designed to receive the locking bolt in a locking position, and at least one sensor capable of detecting the presence of said locking bolt.

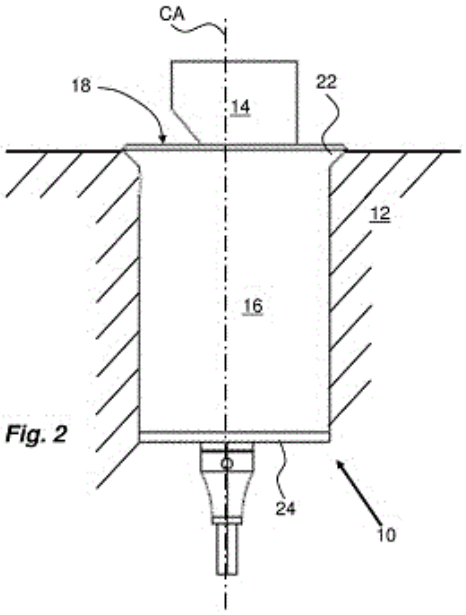
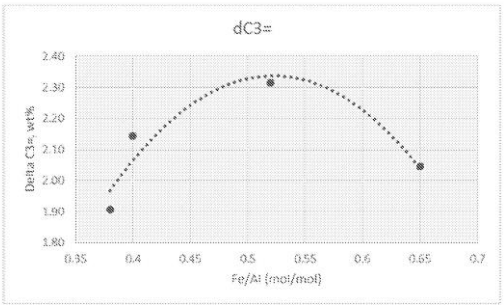


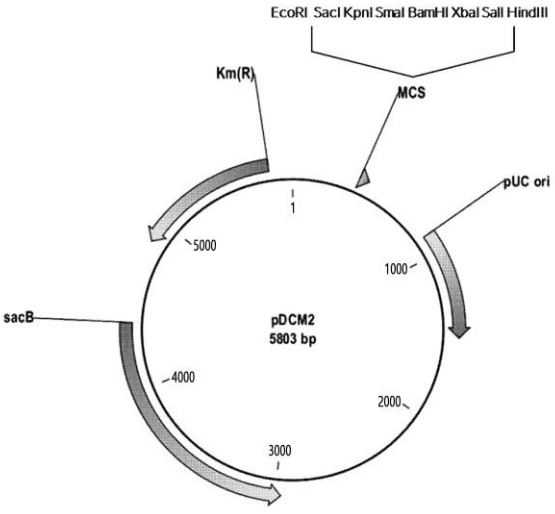
Fig. 2

21: 2023/03358. 22: 2023/03/06. 43: 2024/04/26
51: B01J; C10G
71: Johnson Matthey Process Technologies, Inc
72: ALLAHVERDI, Mehdi, DIDDAMS, Paul, KANYI, Charles
33: US 31: 63/198,260 32: 2020-10-07
54: MAXIMIZATION OF LIGHT OLEFINS IN FCC PROCESS
00: -
The invention includes a fluid catalytic cracking process that comprises reacting a hydrocarbon feedstock under catalytic cracking conditions in the presence of a FCC catalyst and an additive, wherein the additive comprises a ZSM-5 molecular sieve having iron in the framework, wherein the process increases production of propylene compared to a process without using the additive. The invention also includes an additive for maximizing production of olefins, which comprises a ZSM-5 molecular sieve having iron in the framework.

FIGURE 1: Propylene make vs Ratio of Framework Fe:Al



21: 2023/03416. 22: 2023/03/08. 43: 2024/04/17
51: C12N C07K C12P
71: CJ CHEILJEDANG CORPORATION
72: KWON, Nara, SONG, Gyuhyeon, LEE, Jin Nam, BONG, Hyun-Ju, SEO, Chang II, LEE, Ah Reum
33: KR 31: 10-2020-0115570 32: 2020-09-09
54: A RECOMBINANT MICROORGANISM FOR PRODUCING L-GLUTAMIC ACID AND A METHOD FOR PRODUCING L-GLUTAMIC ACID USING THE SAME
00: -
The present application pertains to: a recombinant microorganism for producing L-glutamic acid, the recombinant microorganism comprising SbtA protein or a polynucleotide that codes SbtA protein; and an L-glutamic acid production method using same.



21: 2023/03423. 22: 2023/03/08. 43: 2024/04/26
51: B09B; B82B

71: NIPPON FIBER CORPORATION
72: HIROSHI FUKAZAWA
33: JP 31: 2020-137028 32: 2020-08-14
54: FLAKE-LIKE COMPOSITION AND FLAKE-LIKE COMPOSITION PRODUCTION METHOD
00: -
The purpose of the present invention is to provide: a flake-like composition that enables effective use of waste discharged from a thermal power plant using coal as fuel; and a method for producing said flake-like composition. This flake-like composition is characterized by containing, as a material, waste discharged from a thermal power plant using coal as fuel.

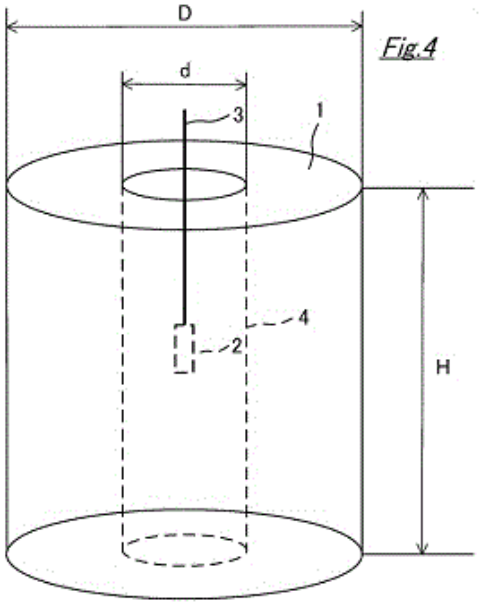


Fig.4

21: 2023/03447. 22: 2023/03/09. 43: 2024/04/26
51: B03B
71: OREKINETICS INVESTMENTS PTY LTD
72: PETER GATES
33: AU 31: 2020902906 32: 2020-08-15
54: SPIRAL SEPARATOR AND APPARATUS THEREFOR
00: -
An apparatus for a spiral separator, for provision operatively intermediate upstream and downstream spiral trough parts of said spiral separator, comprises: a slurry receiving region (302) for receiving a mineral slurry flow from said upstream spiral trough part of said spiral separator; a splitting arrangement (304, 308) for splitting the mineral slurry flow into a concentrate part (212), a semi-concentrate part (214) and a remainder part; a mixing arrangement (312) for mixing a more fluid radially more outward part of the remainder part with a less fluid radially more inward part of the remainder part, to provide a mixed remainder part (316) for feeding onto the downstream spiral trough part; and a semi-concentrate bypass channel (310) for conveying the semi-concentrate part towards the downstream spiral trough part, such that the semi-concentrate component (214) bypasses and is segregated from the mixing arrangement.

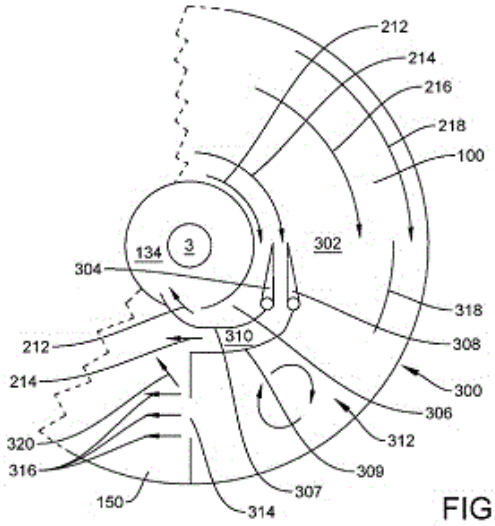
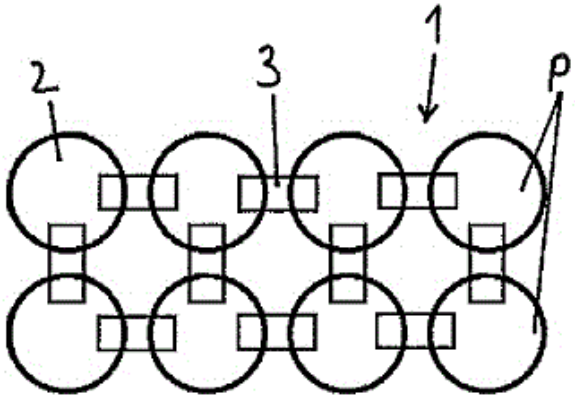


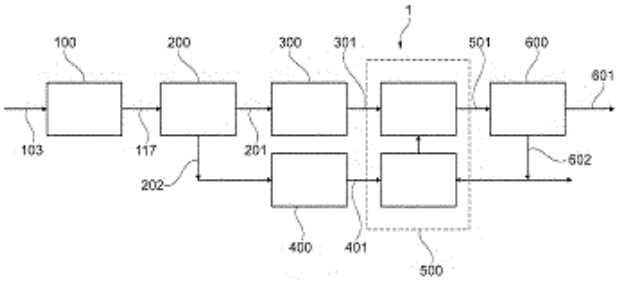
FIG. 3

21: 2023/03483. 22: 2023/03/10. 43: 2024/04/26
51: A61H
71: SISSEL INTERNATIONAL GMBH
72: JENS FRIEBEL
33: AT 31: A 50814/2020 32: 2020-09-24
54: TRAINING APPARATUS
00: -
A training apparatus (1) for stimulating the back muscles associated with a person's spine has two rows of shaped bodies (2), which run one beside the other in a longitudinal direction (L), in particular are not offset from one another, are connected to one another via connecting portions (3) and project away from a base plane (4) which runs through the connecting portions (3). Each of the shaped bodies (2) has at least one bearing region (10), which is in the form of a bearing point or bearing surface and is intended for stimulating the back muscles, wherein the shaped bodies (2) of the one row along with the adjacent, associated shaped bodies (2) of the other row form respective shaped-body pairs (P), and

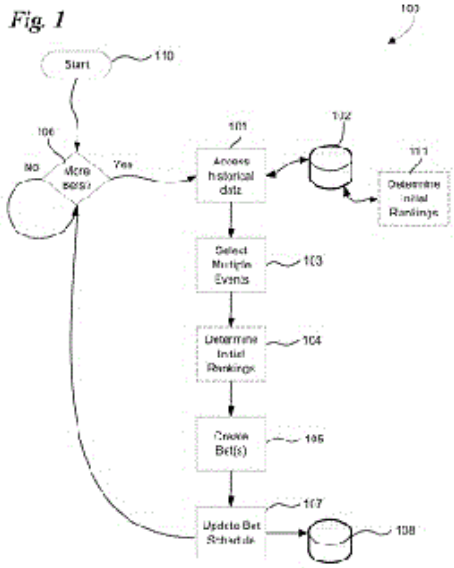
wherein the shaped bodies (2) of the shaped-body pairs (P) form interspaces, in which portions of a spine can be accommodated in the longitudinal direction (L) of the rows. The shaped bodies (2) are formed monolithically together with the connecting portions (3).



21: 2023/03486. 22: 2023/03/10. 43: 2024/04/26
51: C01B; C10J; C10K; C10L
71: RWE GENERATION NL B.V.
72: JOHANNES THEODORUS GERARDUS MARIE EURLINGS
33: EP 31: 20204801.3 32: 2020-10-29
54: CONVERSION OF SOLID WASTE INTO SYNGAS AND HYDROGEN
00: -
The method and plant (1) for conversing solid recovered fuel pellets (117) made from municipal solid waste (103) allow the transformation of the municipal solid waste (103) into hydrogen with a high yield instead of landfilling or incinerating the municipal solid waste (103). The hydrogen rich product gas stream (601) can be used as feedstock for chemical reactions or for storing energy in a releasable manner.



21: 2023/03874. 22: 2023/03/27. 43: 2024/04/25
51: A63F; G07F; G06Q
71: EXACTA SYSTEMS, LLC
72: JOSEPH R ENZMINGER, JEFFERSON C LIND, NIMAI MALLE, GLEN M ROSE, JEREMY F STEIN, KATHERINE M PAISLEY, PATRICK NEELY
33: US 31: 63/083,459 32: 2020-09-25
54: SYSTEM AND METHOD FOR LIVE PARI-MUTUEL WAGERING ON MULTIPLE PAST EVENTS
00: -
A system for facilitating live pari-mutuel betting between multiple individuals betting on the outcome of historical events. Player prizes may be awarded based on how closely each player comes to matching the actual results o f the participants of the events. The system may provide multiple different bets for players to wager on. Each bet may include a collection of multiple events, and a deadline for determining the outcome of the wagers placed by all players. Higher payouts may be offered for players who more closely match the actual outcomes of the events. The system optionally includes different configurations of software and hardware providing a variety of different configurations for facilitating the disclosed process.



21: 2023/03876. 22: 2023/03/27. 43: 2024/04/25
51: C08B
71: BOSTIK SA
72: FRANK BÜTERÖWE
33: EP 31: 20306198.1 32: 2020-10-12
54: STARCH-BASED AQUEOUS ADHESIVE COMPOSITION

00: -
The present invention relates to an aqueous adhesive composition comprising: - a) an amylomaltase-treated starch or an amylomaltase-treated maltodextrin; and - b) ammonium zirconium carbonate.

21: 2023/03893. 22: 2023/03/28. 43: 2024/04/02
51: B31B; B65B; B65D
71: PACKABLE B.V.
72: RONALD ZWAGA
33: EP 31: 20152305.7 32: 2020-01-16
54: METHOD FOR TOP SEALING A CARDBOARD TRAY LINED WITH A PLASTIC FOIL AND CARDBOARD TRAY THEREFOR
00: -
The invention relates to a cardboard tray. The cardboard tray comprises a bottom, and upstanding walls arranged along the periphery of the bottom. A horizontal flange is arranged along the upper edges of the upstanding walls. Plastic foil is lined against the inside of the cardboard tray, which plastic foil extends at least onto the horizontal flange and extends, in view of a direction perpendicular to the horizontal flange, at least partially outside of the area of the horizontal flange.

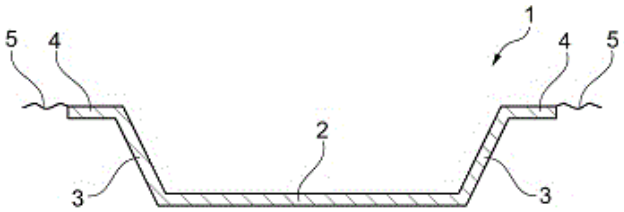


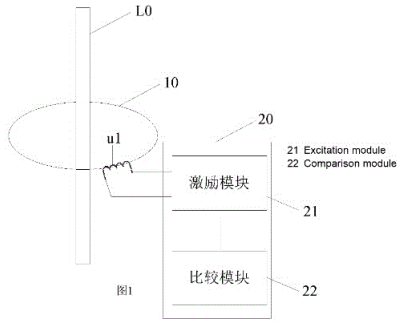
Fig. 1A

21: 2023/03906. 22: 2023/03/28. 43: 2024/04/25
51: A61K; A61P
71: ISHIHARA SANGYO KAISHA, LTD.
72: TAKESHI SHINDO
33: JP 31: 2020-164034 32: 2020-09-29
54: LIQUID-STATE PHARMACEUTICAL COMPOSITIONEXHIBITING EXCELLENT PRESERVATIVE EFFECTIVENESS
00: -
An object of the present invention is to enhance preservative effectiveness of a liquid composition containing N-(2-ethylsulfonylamino-5-trifluoromethyl-3-5 pyridyl)cyclohexanecarboxamide or a salt thereof by using a liquid composition containing N-(2-ethylsulfonylamino-5-trifluoromethyl-3-pyridyl)cyclohexanecarboxamide or a salt thereof, benzyl alcohol and water and having pH of 8 or more.

21: 2023/03992. 22: 2023/03/30. 43: 2024/04/25
51: A61K; C07D
71: MORPHIC THERAPEUTIC, INC.
72: MATTHEW G BURSAVICH, DAN CUI, JAMES E DOWLING, KRISTOPHER N HAHN, BRYCE A HARRISON, FU-YANG LIN, BLAISE S LIPPA, BRUCE N ROGERS, DAWN M TROAST, CHENG ZHONG, KYLE D KONZE, ALEKSEY I GERASYUTO, BYUNGCHAN KIM, SALMA RAFI, TYLER DAY, EUGENE HICKEY, EVELYNE HOUANG, ROBERT ZAHLER
33: US 31: 62/916,062 32: 2019-10-16
54: INHIBITING HUMAN INTEGRIN ALPHA4BETA7
00: -
Disclosed are small molecule antagonists of human $\alpha_4\beta_7$ integrin, and methods of using them to treat a number of diseases and conditions.

21: 2023/04801. 22: 2023/04/26. 43: 2024/05/24
51: G01R; H02J
71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD.
72: WANG, Chao
33: CN 31: 202011289085.1 32: 2020-11-17
54: CURRENT DETECTION CIRCUIT, CURRENT LEAKAGE DETECTION METHOD, AND CHARGING SYSTEM
00: -
A current detection circuit (20), a current leakage detection method, and a charging system. The current detection circuit (20) is capable of outputting an excitation signal to a first winding (u1) in a magnetic induction coil (10), then determining, on the basis of a feedback signal and a reference signal detected by the first winding (u1), whether a leakage current is present in a first lead (L0) running through the magnetic induction coil (10), thus determining whether an electrical leakage is found while a charging device (101) is supplying electricity to the external environment, and providing the determination result to a control circuit (103). When an electrical leakage is found, the control circuit (103) is capable of cutting off in a timely manner a circuit by which the charging device (101) is supplying electricity to the external environment so that the charging device (101) is stopped from supplying electricity to the external environment,

thus reducing the occurrence of hazards, and increasing the safety and reliability of a charging process; at the same time, also increasing the reaction speed with respect to the control of the charging process and increasing the degree of timeliness. In addition, the range of applications of the current detection circuit (20) is not restricted by the geography and climate, thus greatly broadening the range of applications of the current detection circuit (20).



21: 2023/05006. 22: 2023/05/05. 43: 2024/04/16
51: A01K
71: JIANGSU OCEAN UNIVERSITY
72: ZHIGUO DONG, CHEN LIANG, SHIYU YAN, HAIBAO DUAN, GUOLIANG REN, SENLEI FENG, QING XIA, ZHENQUAN CUI
33: CN 31: 202211434135.X 32: 2022-11-16
54: CULTURE SUBSTRATE FOR BURIED SHELLFISH, AND APPLICATION THEREOF IN BURIED SHELLFISH CULTURE
00: -
The present invention provides a culture substrate for buried shellfish, and application thereof in buried shellfish culture, which belong to the technical filed of buried shellfish culture. According to the present invention, calcium carbonate, diatomite and quartz sand are combined in a specific ratio, such that excellent materials are provided for culture of the buried shellfish, and the problem that a new culture substrate is lacked in the prior art is solved. According to the culture substrate of the present invention, the substrate is rich in permeability, a physiological state of the buried shellfish is improved by improving a substrate temperature holding effect, an oxygen content, etc. while buried requirements of the buried shellfish are considered, such that feeding capacity and absorption efficiency of the buried shellfish are improved, and a yield is finally improved. It can be seen from culture results that the culture substrate with a specific formula for buried shellfish in the present invention has excellent stability, can improve a yield growth rate of the cultured buried shellfish, and can be reused after culture is completed by means of the steps of disinfection, filtration, etc., thereby being environment-friendly and high in economic benefit.

21: 2023/05067. 22: 2023/05/08. 43: 2024/06/05
51: C21D; C22C; C23C
71: ARCELORMITTAL
72: Clément PHILIPPOT, Sandra LE GUILLARD, David DUSSAUSSOIS, Matthieu SALIB
33: IB 31: PCT/IB2020/062045 32: 2020-12-16
54: COATED STEEL SHEET AND HIGH STRENGTH PRESS HARDENED STEEL PART AND METHOD OF MANUFACTURING THE SAME
00: -
The invention deals with a coated steel sheet and press hardened steel part having a composition comprising, by weight percent: C 0.26-0.40%, Mn 0.5-1.8%, Si 0.1 - 1.25%, Al 0.01 -0.1%, Cr 0.1 - 1.0%, Ti 0.01 -0.1%, B 0.001 -0.004%, P ≤ 0.020%, S ≤ 0.010%, N ≤ 0.010% the remainder of the composition being iron and unavoidable impurities resulting from the smelting. The press hardened steel part comprises a bulk having a microstructure comprising, in surface fraction, more than 95% of martensite and less than 5% of bainite, a coating layer at the surface of the steel part, a ferritic interdiffusion layer between the coating layer and the bulk, and a ratio between the ferritic grain width in the interdiffusion layer GWint over prior austenite grain size in the bulk PAGSbulk, satisfying following equation (GWint / PAGSbulk)-1≥ 30%.

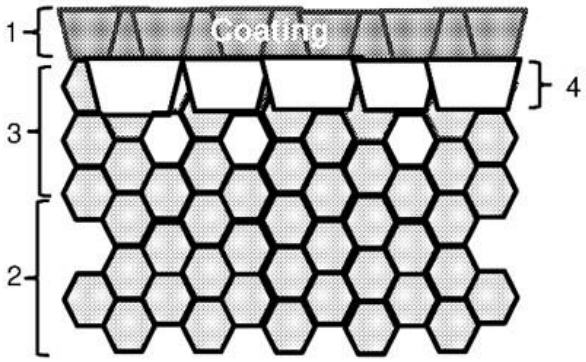


Fig 3a

Trial 2
Coated steel sheet

1: Coating
2: Bulk. Microstructure of ferrite + pearlite, or ferrite + bainite or ferrite + M-A islands
3: Decarburized layer comprising in upper part a ferrite layer (4). Grain size of ferrite is wider than in the bulk.

21: 2023/05069. 22: 2023/05/08. 43: 2024/06/05
51: C21C; C22C
71: ARCELORMITTAL
72: Clément PHILIPPOT, Alice DUMONT, Deborah HERRY, Martin BEAUVAIS
33: IB 31: PCT/IB2020/062044 32: 2020-12-16
54: COATED STEEL SHEET AND HIGH STRENGTH PRESS HARDENED STEEL PART AND METHOD OF MANUFACTURING THE SAME
00: -
The invention deals with a coated steel sheet and press hardened steel part having a composition comprising, by weight percent: C 0.15-0.25%, Mn 0.5-1.8%, Si 0.1 - 1.25%, Al 0.01 -0.1%, Cr 0.1 - 1.0%, Ti 0.01 -0.1%, B 0.001 -0.004%, P ≤ 0.020%, S ≤ 0.010%, N ≤ 0.010% the remainder of the composition being iron and unavoidable impurities resulting from the smelting. The press hardened steel part comprises a bulk having a microstructure comprising, in surface fraction, more than 95% of martensite and less than 5% of bainite, a coating layer at the surface of the steel part, a ferritic interdiffusion layer between the coating layer and the bulk, and a ratio between the ferritic grain width in the interdiffusion layer GWint over prior austenite grain size in the bulk PAGSbulk, satisfying following equation (GWint / PAGSbulk)-1 ≥ 30%.

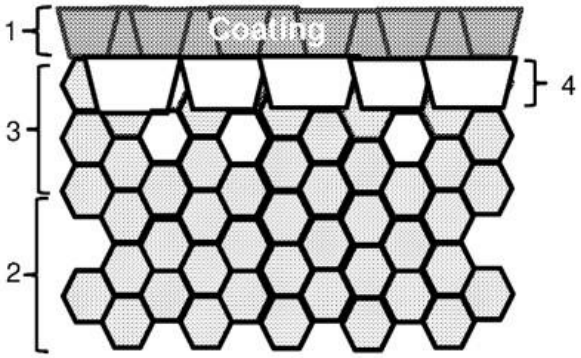


Fig 3a

Trial 2
Coated steel sheet

1: Coating
2: Bulk. Microstructure of ferrite + pearlite, or ferrite + bainite or ferrite + M-A islands
3: Decarburized layer comprising in upper part a ferrite layer (4). Grain size of ferrite is wider than in the bulk.

21: 2023/05070. 22: 2023/05/08. 43: 2024/06/05
51: B23K
71: ARCELORMITTAL
72: Bert VAN WEZEMAEL
33: IB 31: PCT/IB2020/061042 32: 2020-11-23
54: PROCESS AND EQUIPMENT TO LASER CUT VERY HIGH STRENGTH METALLIC MATERIAL
00: -
Laser cutting process to produce n trimmed sub-blanks, n being an integer strictly greater than 1, from a mother blank made of metallic material, comprising the following steps: -Op1/ positioning the mother blank on a cutting table, said cutting table comprising n laths arranged to be moveable relative to one another in a transverse direction, -Op2/ clamping at least part of the mother blank to the cutting table, -Op3/ cutting, using a laser source, n untrimmed sub-blanks from the mother blank in a longitudinal cutting direction, -Op4/ separating the n laths of the cutting table from one another in a transverse direction, -Op5/ releasing the clamping, -Op6/ clamping the n untrimmed sub-blanks to the n laths, -Op7/ laser trimming the n untrimmed sub-blanks in order to form n trimmed sub-blanks, -Op8/ releasing the clamping, -Op9/ discharging the n trimmed sub-blanks from the cutting table.

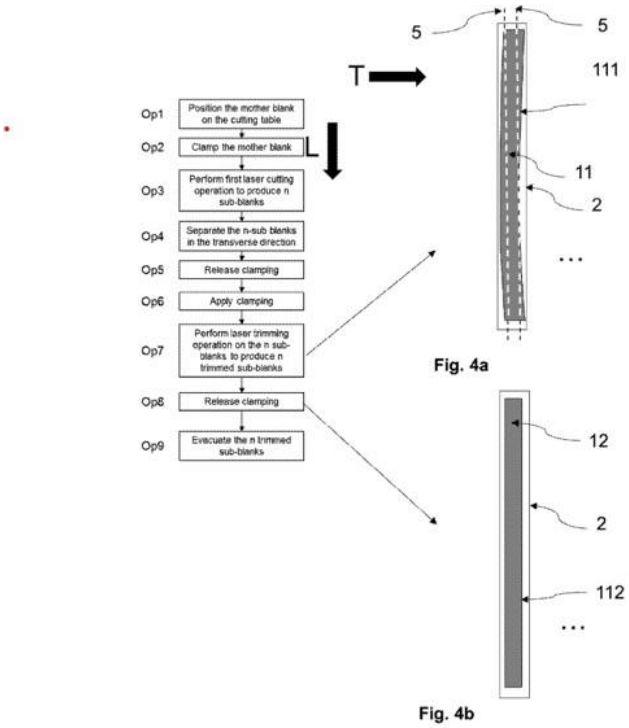
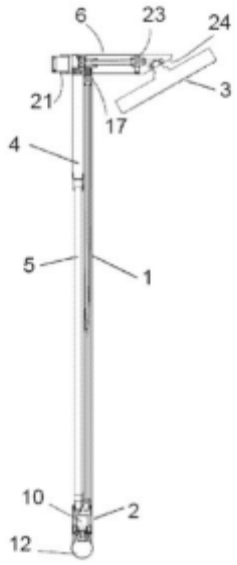


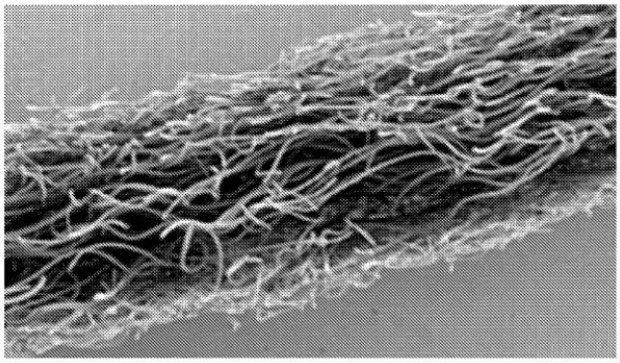
Fig. 4a

Fig. 4b

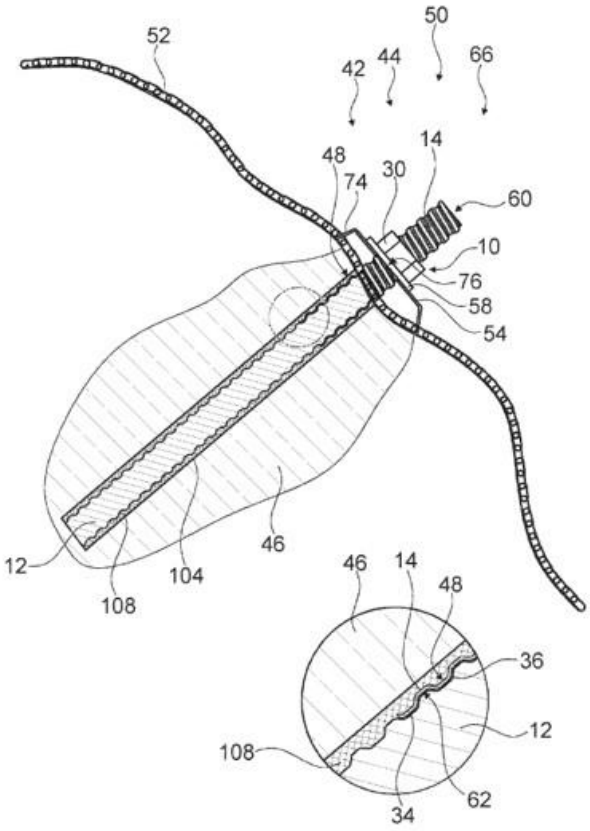
21: 2023/05071. 22: 2023/05/08. 43: 2024/06/05
51: A47K; E03C
71: STROHM BATHROOM SOLUTIONS S.A.
72: Roberto LADRÓN JIMÉNEZ
33: ES 31: P202031170 32: 2020-11-23
54: SHOWER SET WITH CONCEALED HOSE
00: -
The invention relates to a shower set with concealed hose, comprising a vertical tube that conceals a mechanism consisting of a cartridge with axial water outlet mounted in reverse position, wherein the vertical tube deforms to integrate a hose and a handheld shower in its contour, wherein the rotation of the vertical tube on its two ends hides or shows the hose and the handheld shower, and at the upper end it has a system for blocking the rotation when the water is coming out of the upper shower head.



21: 2023/05080. 22: 2023/05/08. 43: 2024/06/07
51: D04H
71: PFNONWOVENS HOLDING S.R.O., PFNONWOVENS CZECH S.R.O., PFN - GIC A.S., REIFENHÄUSER GMBH & CO. KG MASCHINENFABRIK
72: Michael KAUSCHKE, Zdenek MECL, Nikol POLASKOVA, Patrick BOHL, Christine NOACK, Tobias WAGNER
33: CZ 31: PV 2020-591 32: 2020-11-02
54: NONWOVEN FABRIC COMPRISING FILAMENTARY STRATA
00: -
A nonwoven fabric comprising a plurality of filamentary strata, wherein the fabric comprises - a first stratum (A), which forms an outer surface of the nonwoven fabric and comprises continuous multi-component filaments comprising a component, which forms at least 20 % of the surface of the filaments and bonds within the first stratum (A) and has its melting point at least 5°C lower than the melting point of the other components of the filaments of the first stratum (A), and - a second stratum (B), which comprises continuous multi-component filaments comprising a component, which forms at least 20 % of the surface of the filaments and bonds within the second stratum (B) and has its melting point at least 5°C lower than the melting point of the other components of the filaments of the second stratum (B), - wherein the bulk density of the fabric is lower than 60 kg/m3.



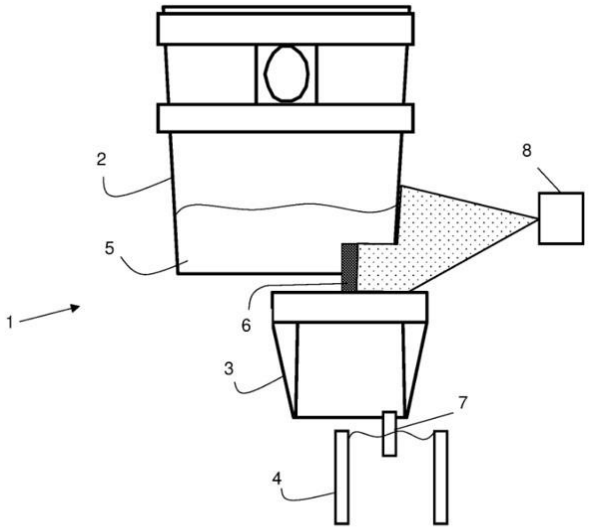
21: 2023/05081. 22: 2023/05/08. 43: 2024/06/05
51: E02D; E21D
71: GEOBRUGG AG
72: Manuel EICHER
33: DE 31: 10 2020 132 950.4 32: 2020-12-10
54: CORROSION PROTECTION DEVICE, AND METHOD FOR CORROSION-PROTECTED ANCHORING OF AN ANCHOR ELEMENT
00: -
The invention proceeds from a corrosion protection device (44), in particular a corrosion protection adapter, at least for protecting at least an end region (10) of a geotechnical anchor element (12), in particular consisting of a metal or alloy which is not corrosion-resistant, for example a construction steel or concrete reinforcement steel, from corrosion, having at least one sleeve element (14), which is provided at least for mounting on the geotechnical anchor element (12) so as to enclose the end region (10) of the geotechnical anchor element (12) at least in the circumferential direction of the geotechnical anchor element (12). According to the invention, the sleeve element (14) is at least mostly formed from a corrosion-resistant metal and has at least one external thread (16).



21: 2023/05123. 22: 2023/05/09. 43: 2024/06/05
51: A01N
71: BIND-X GMBH
72: Jan-Philip MERKL, Luitpold FRIED
54: SURFACE MODIFICATION TO REGULATE PLANT GROWTH
00: -
The present invention primarily relates to the use of a mixture to prevent or reduce plant growth, preferably weed growth, on/in a substrate by hardening said substrate. The invention further relates to a method for preventing or reducing plant growth, preferably weed growth, on/in a substrate and to a mixture for preventing or reducing plant growth, preferably weed growth.

21: 2023/05207. 22: 2023/05/11. 43: 2024/06/05
51: B22D
71: ARCELORMITTAL
72: Jackie LEUNG, Daeyoung Stephen CHUNG, Joydeep SENGUPTA, Tim RAYNER
54: CASTING METHOD AND ASSOCIATED DEVICE
00: -

A method of casting a steel semi-product wherein a liquid steel is poured from a ladle to a tundish through a shroud comprising the steps of determining the light intensity emitted from the surface of the liquid steel in the tundish, detecting, based on said determined intensity, the presence of an open-eye at the surface of the liquid steel and emitting an alert towards an operator when an open-eye is detected.



21: 2023/05221. 22: 2023/05/11. 43: 2024/06/05
51: A61K; C07K; A61P
71: SOTIO BIOTECH A.S.
72: Lukas BAMMERT, Lenka KYRYCH SADILKOVA, Simona HOSKOVA, Iva VALENTOVA, Lorenz WALDMEIER, Roger BEERLI, Ulrich MOEBIUS
33: EP 31: 20 216 800.1 32: 2020-12-23
54: TUMOR-SPECIFIC CLAUDIN 18.2 ANTIBODY-DRUG CONJUGATES
00: -
The invention provides an ADC based on an antibody binding to CLDN18.2, wherein the antibody or fragment thereof exhibits increased binding to tumor tissue expressing CLDN18.2 over healthy tissue expressing CLDN18.2.

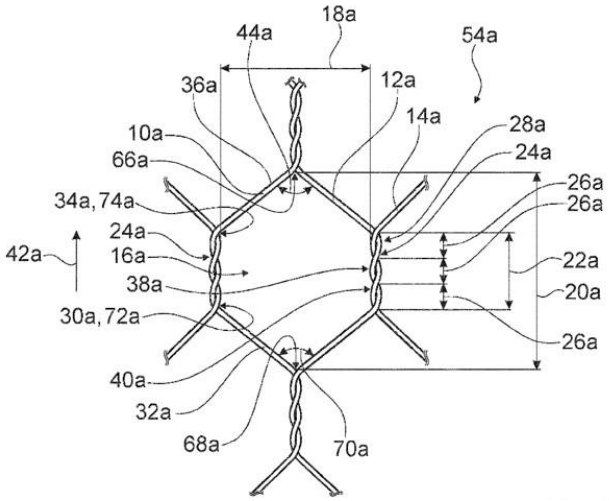
21: 2023/05240. 22: 2023/05/12. 43: 2024/06/05
51: C21D; C22C
71: ARCELORMITTAL
72: Jean-Marc PIPARD, Artem ARLAZAROV
54: COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF
00: -
A cold rolled and heat treated steel sheet having a composition comprising of the following elements 0.1%≤Carbon≤0.5%, 1%≤Manganese≤3.4%, 0.5%≤Silicon≤2.5%, 0.01%≤Aluminum≤1.5%, 0.05%≤Chromium≤1%, 0.001%≤ Niobium≤0.1%, 0%≤Sulfur≤0.003%, 0.002%≤Phosphorus≤0.02%, 0%≤Nitrogen≤0.01%, 0%≤Molybdenum≤0.5%, 0.001%≤Titanium≤0.1%, 0.01% ≤Copper≤2%, 0.01%≤Nickel≤3%, 0.0001 % ≤ Calcium ≤ 0.005 %, 0 % ≤ Vanadium ≤ 0.1 %, 0 % ≤ Boron ≤ 0.003 %, 0 % ≤ Cerium≤ 0.1 %, 0 % ≤ Magnesium≤ 0.010 %, 0 % ≤ Zirconium≤ 0.010 % the remainder composition being composed of iron and the unavoidable impurities, and a microstructure of the said rolled steel sheet comprises by area fraction, 10% to 60% Bainite, 5% to 50% Ferrite, 5% to 25% Residual Austenite, Martensite 2% to 20%, Tempered Martensite 0% to 25%, the balance being Annealed Martensite, which content shall be from 1% to 45%.

21: 2023/05245. 22: 2023/05/12. 43: 2024/06/05
51: C21D; C22C
71: ARCELORMITTAL
72: Pascal LORENZINI, Xavier GARAT
54: LOW DENSITY COLD ROLLED AND ANNEALED STEEL SHEET, METHOD OF PRODUCTION THEREOF AND USE OF SUCH STEEL TO PRODUCE VEHICLE PARTS
00: -
A low density cold rolled and annealed steel sheet comprising of 0.12% ≤ carbon ≤ 0.25%, 3% ≤manganese ≤10%, 3.5% ≤ aluminum ≤ 6.5%, 0% ≤ phosphorus ≤ 0.1%, 0% ≤sulfur ≤0.03%, 0% ≤ nitrogen ≤ 0.1%, 0% ≤ silicon ≤ 2%, 0.01% ≤ niobium ≤ 0.03%, 0.01% ≤ titanium ≤ 0.2%,0% ≤ molybdenum ≤ 0.5%, 0% ≤ chromium ≤ 0.6%, 0.01% ≤ copper ≤ 2.0%,0.01%≤nickel ≤3.0%, 0% ≤calcium≤ 0.005%, 0% ≤ boron ≤ 0.01%, 0% ≤Magnesium≤ 0.005%, 0% ≤ Zirconium ≤ 0.005%, 0% ≤ Cerium ≤ 0.1%,and the balance including iron, the steel sheet having a microstructure comprising 60% to 90% Delta ferrite, 8% to 30% of residual austenite having average grain size between 0.6 and 2 microns, 1.0% to 10% of alpha-ferrite having average grain size between 0.6 and 2 microns and 0% to 2% of kappa precipitates (Fe,Mn)3AlCx, where x is strictly lower than 1.

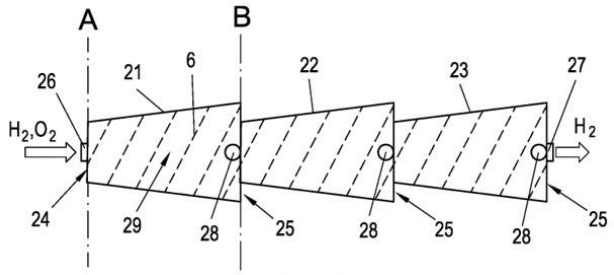
21: 2023/05298. 22: 2023/05/15. 43: 2024/06/05
51: C21D; C22C; C25D
71: ARCELORMITTAL

72: Loretta BOCK, Md SHAMSUJJOHA
54: HYDROGEN EMBRITTLEMENT RESISTANCE COATED STEEL
00: -
A method of production of a coated steel substrate comprising of the steps to have a steel substrate; performing electroplating of the steel substrate with an electroplating solution having a pH of from 2 to 6 and containing 100g/l to 500g/l of NiSO4 and 1 g/l to 15g/l of MoS2, by applying a current density from 15 A/dm2 to 45 A/dm2 during 30 seconds to 300 seconds to generate a layer of Ni-MoS2 coating; thereafter, rinsing the steel substrate and drying it to obtain a coated steel substrate.

21: 2023/05327. 22: 2023/05/16. 43: 2024/06/05
51: B21F; E01F; E02B
71: GEOBRUGG AG
72: Mario BRUNN
33: DE 31: 10 2021 100 678.3 32: 2021-01-14
54: STEEL WIRE MESH MADE OF STEEL WIRES HAVING HEXAGONAL LOOPS, PRODUCTION DEVICE, AND PRODUCTION METHOD
00: -
The invention proceeds from a steel wire mesh (54a-d), in particular a hexagonal mesh, made of steel wires (10a-d, 12a-d, 14a-d) having hexagonal loops (16a-d), in particular for use in the construction sector, preferably for use in the field of protection from natural hazards, wherein the steel wires (10a-d, 12a-d, 14a-d) are alternately twisted with adjacent steel wires (10a-d, 12a-d, 14a-d), and wherein the steel wires (10a-d, 12a-d, 14a-d) are made of a high-strength steel or at least have a wire core made of high-strength steel. According to the invention, a ratio, in particular an average ratio, of a loop width (18a-d), in particular an average loop width, of the hexagonal loops (16a-d), to a loop height (20a-d), in particular an average loop height, measured perpendicular to the loop width (18a-d), of the hexagonal loops (16a-d), is at least 0.75, preferably at least 0.8. The invention also relates to a production device and to a production method.



21: 2023/05550. 22: 2023/05/23. 43: 2024/06/05
51: B01D; B04B; C01B
71: TI-HOLDINGS B.V.
72: Rudolf KOEKKOEK, Terence VECHIK
54: THERMAL INVERTER
00: -
The invention relates to a thermal inverter (1, 2) for generating from a parent compound a first fluid of first molecules (H2) with a first molecular weight and a second fluid of second molecules (O2) with a second molecular weight, whereby the first molecular weight of the first molecules (H2) is less than the second molecular weight of the second molecules (O2). In a reaction device (1) the parent compound is decomposed into a mixture compound of the first molecules (H2) and the second molecules (O2).In order to improve the efficiency of such a thermal inverter the invention proposes a gas separator device (2) comprising a mixture inlet (26) for the mixture compound of the first and the second molecules at a bottom section (24) of the gas separator device (2) and a first and a second outlet (2() at a top section (25) of the gas separator device (2), the first outlet (27) providing substantially the first molecules (H2) and the second outlet (28) providing substantially the second molecules (O2), the gas separator device (2) further comprising guiding elements (6) for guiding the first and second molecules (H2, O2) from the mixture inlet (26) towards the first and second outlet (27, 28) in a coiled path, wherein the coiled path is confined by a sidewall (29).



21: 2023/05567. 22: 2023/05/23. 43: 2024/05/02
51: A41D; A47H
71: THE HMZ COMPANY PTY LTD
72: O'LEARY, Kym Lennette
33: AU 31: 2020903205 32: 2020-09-08
54: SYSTEMS AND METHODS OF MODIFYING A BODY OF FABRIC
00: -
Systems and methods of adjusting a length of fabric are disclosed. In one form, a system is disclosed for adjusting a length of fabric, said system including: a fabric body having at least one edge portion; at least one extension piece of fabric having an inner edge portion and an opposed outer edge portion and extending distally away from the at least one edge portion in an edge portion to edge portion arrangement. The at least one extension piece is sewn to the at least one edge portion with at least one release thread and at least one tab operably associated with an end of the at least one thread. The length of fabric is adjusted by moving the at least one tab and pulling the at least one release thread to release and separate the at least one extension piece from the fabric body.

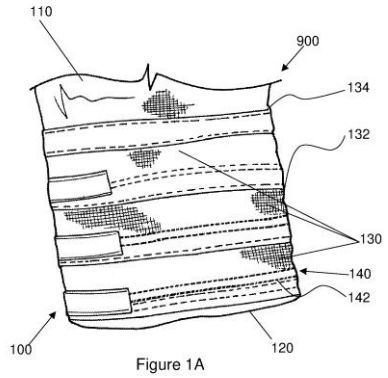


Figure 1A

21: 2023/05640. 22: 2023/05/25. 43: 2024/06/05
51: E02B; H04Q; H04W
71: TECHNISCHE UNIVERSITÄT BERGAKADEMIE FREIBERG
72: Hans-Günther KRUG, Tobias KRICHLER, Helmut MISCHO
33: DE 31: 10 2020 216 221.2 32: 2020-12-18
54: SYSTEM FOR DECENTRALIZED ACQUISITION AND WIRELESS TRANSMISSION OF ACQUIRED DATA FOR USE UNDERGROUND
00: -
In the system, the data, which are acquired in a decentralized manner, are evaluated centrally. Multiple at least temporarily mobile modules are arranged at various positions of a respective underground structure and the temporarily mobile modules are designed to acquire and buffer store measurement data and to transmit acquired measurement data wirelessly and automatically to multiple fully mobile modules as soon as a fully mobile module has reached a distance from a temporarily mobile module at which a wireless data transmission between a respective temporarily mobile module and a fully mobile module is possible. Fully mobile modules are designed to buffer store data that have been received from at least one temporarily mobile module and, upon reaching a data access point that is connected to a central acquisition, evaluation and/or storage unit, to transmit these buffer-stored data to the respective data access point. Temporarily mobile modules are furthermore designed to wirelessly transmit buffer-stored measurement data only after receiving a wirelessly received request signal that has been transmitted from a fully mobile module to the respective temporarily mobile module.

21: 2023/06130. 22: 2023/06/09. 43: 2024/05/08
51: C04B
71: CHRYSO
72: PELLERIN, Bruno, HERVE, Mickaël, GIRAUDEAU, Claire, FERRARI, Lucia, KOCABA, Vanessa
33: FR 31: 2013093 32: 2020-12-11
54: ADMIXTURE FOR FLUIDIFYING A CEMENTITIOUS COMPOSITION WITH REDUCED CEMENT CONTENT
00: -
The application describes an admixture comprising a polymer as fluidifier of a cement composition comprising: - from 20 to 64 wt. % clinker, - from 5 to 60 wt. % activated clay, - from 0 to 35 wt. % limestone, - from 0 to 10 wt. % calcium sulfate, the proportions being relative to the dry weight of the

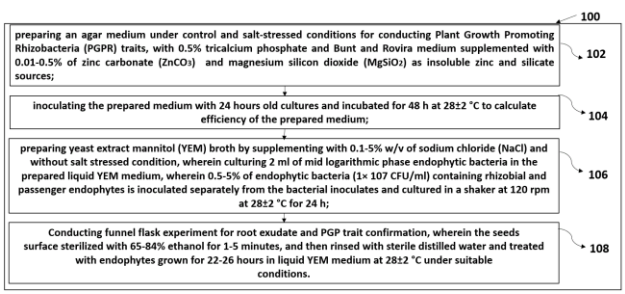
cement composition. The application describes an admixture comprising a polymer as fluidifier of a cement composition.

21: 2023/06339. 22: 2023/06/19. 43: 2024/06/12
51: A01N
71: Anandham R, Oviya G, Manikandan A, Madhan S, Yazhini G, Meena S, Krishnamoorthy R, Raghu R, Senthilkumar M, Thiyageshwari S, Vincent S, Gopal N O
72: Anandham R, Oviya G, Manikandan A, Madhan S, Yazhini G, Meena S, Krishnamoorthy R, Raghu R, Senthilkumar M, Thiyageshwari S, Vincent S, Gopal N O

54: A COMPOSITION AND A METHOD FOR ALLEVIATING SALINITY STRESS IN GROUNDNUT USING ENDOPHYTES AND RHIZOBIUM

00: -

A composition and method (100) for alleviating salinity stress in groundnut, comprises of: conducting PGPR traits by preparing an agar medium under control and salt-stressed conditions; preparing YEM broth by supplementing with 0.1-5% w/v of NaCl and without salt stressed condition, inoculating the prepared medium with endophytes and incubated for 48 h at 28±2 °C; wherein 0.5-5% of endophytic bacteria (1× 107 CFU/ml) containing rhizobial and passenger endophytes is inoculated separately from the bacterial inoculates and cultured in a shaker; culturing 2 ml of mid logarithmic phase endophytic bacteria in the prepared liquid YEM medium; selection of salt tolerant endophyte grown for 22-26 hours in liquid YEM medium at 28±2 °C under suitable conditions treating with groundnut seeds wherein the surface of the seeds are sterilized with 65-84% ethanol for 1-5 minutes, and then rinsed with sterile distilled water and collecting root exudates of groundnut for PGP confirmation.

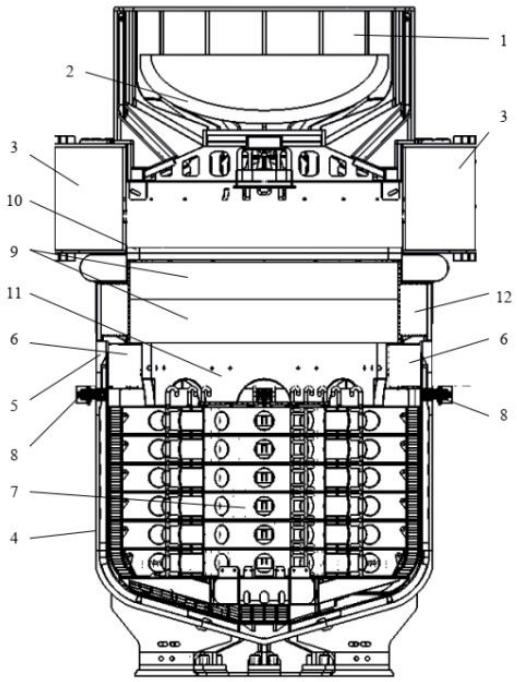


21: 2023/06596. 22: 2023/06/27. 43: 2024/05/08
51: G21C
71: JOINT-STOCK COMPANY "ATOMENERGOPROEKT", SCIENCE AND INNOVATIONS - NUCLEAR INDUSTRY SCIENTIFIC DEVELOPMENT, PRIVATE ENTERPRISE
72: SIDOROV, Aleksandr Stalevich, SIDOROVA, Nadezhda Vasilievna, CHIKAN, Kristin Aleksandrovich, BADESHKO, Kseniya Konstantinovna
33: RU 31: 20200143779 32: 2020-12-29

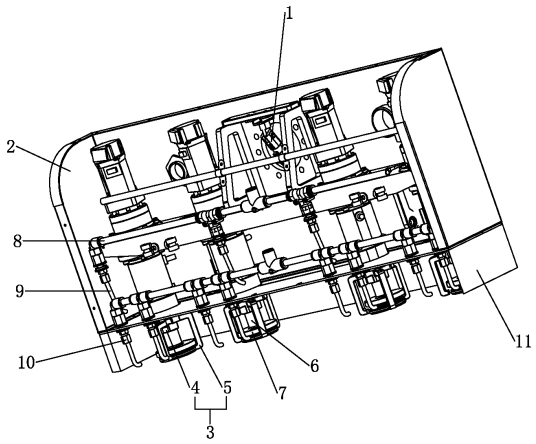
54: SYSTEM FOR CONFINING AND COOLING MELT FROM THE CORE OF A NUCLEAR REACTOR

00: -

The invention relates to the field of nuclear power engineering, and more particularly to systems which provide for the safety of nuclear power plants, and can be used in the event of accidents leading to the destruction of the pressure vessel and sealed containment structure of a reactor. A system for confining and cooling melt from the core of a nuclear reactor comprises a guide device, a cantilever truss, a filler for receiving and distributing melt, said filler being disposed in a housing having water supply valves mounted around its perimeter and having a flange with a thermal shield mounted thereon, a drum mounted on the flange of said housing and being configured in the form of a casing with reinforcing ribs mounted around its perimeter on the inner side, said reinforcing ribs bearing against a cover and a bottom, wherein said drum has tensioning elements connecting the drum, via a support flange welded thereto, to the flange of the housing, and spacing elements providing an adjustment gap between the drum and the flange of the housing. Provided in the drum are nozzles equipped with heat reflectors and cooling ribs and having water supply valves mounted therein, for increasing the reliability of the system for confining and cooling melt from the core of a nuclear reactor.



21: 2023/06822. 22: 2023/07/04. 43: 2024/05/21
51: B08B; B22C
71: JINHUA BAOLIN TECHNOLOGY CORPORATION LIMITED
72: Miaoyong CHEN, Yongjun LV
33: CN 31: 202011616135.2 32: 2020-12-31
54: SALT CORE CLAMPING AND PLACING DEVICE WITH DUST BLOWING-OFF STRUCTURE
00: -
A salt core clamping and placing device with a dust blowing-off structure includes a mechanical arm (1), a working frame (2) fixedly connected to the mechanical arm (1), and several air cylinder clamping jaws (3) distributed at a bottom end of the working frame (2) at equal intervals. The air cylinder clamping jaw (3) includes an air cylinder part (4) and a clamping jaw part (5) located at a bottom end of the air cylinder part (4). A connecting rod (6) is fixed at a central position of the bottom end of the air cylinder part (4). A pressure disc (7), which is located within the clamping jaw part (5), is fixed at a bottom end of the connecting rod (6). A gap for clamping a salt core is reserved between the pressure disc (7) and the bottom of the clamping jaw part (5). An air path pipe (8), which is connected to an external air pump through a conduit, is provided inside the working frame (2). Several air blowing pipes (9), which extend out of the working frame (2), are connected to the air path pipe (8), the several air blowing pipes (9) correspond to the positions of the air cylinder clamping jaws (3) respectively, and air outlet ends of the air blowing pipes (9) face the clamping jaw parts (5).



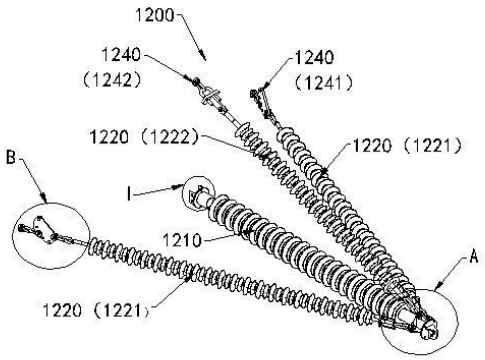
21: 2023/06901. 22: 2023/07/07. 43: 2024/05/08
51: A61K; C07C; C07D; A61P
71: ETHERNA IMMUNOTHERAPIES NV, UNIVERSITEIT GENT
72: DE KOKER, Stefaan, DE GEEST, Bruno, YONG, Chen
33: EP 31: 20216879.5 32: 2020-12-23
54: IONIZABLE LIPIDS
00: -
The present invention generally relates to the field of ionizable (also termed cationic) lipids, and in particular provides a novel type of such lipids as represented by formula (I). The present invention further provides methods for making such lipids as well as uses thereof, in particular in the preparation of nanoparticle compositions, more in particular nanoparticle compositions comprising nucleic acids. It further provides vaccine formulations comprising nanoparticle compositions based on the ionizable lipids disclosed herein.

21: 2023/06953. 22: 2023/07/10. 43: 2024/05/31
51: C22B
71: HERAEUS PRECIOUS METALS GMBH & CO. KG
72: OTT, Sybille, RÖHLICH, Christoph
33: EP 31: 21154929.0 32: 2021-02-03
54: METHOD FOR REDUCTIVE EXTRACTION OF IRIDIUM, RHODIUM AND/OR RUTHENIUM
00: -

The invention relates to a method for reductive extraction of elemental noble metals from an acidic aqueous solution containing noble metal, the method comprising the addition of non-noble metal including zinc and/or tin to the acidic aqueous solution containing noble metal to form a reaction mixture, wherein the dissolved noble metal includes iridium, rhodium and/or ruthenium, wherein the non-noble metal is added in a leaner-than stoichiometric amount, and wherein the pH of the acidic aqueous solution containing noble metal prior to the addition of the non noble metal is in the range of +0.8 to +3.0 and is also kept in this range in the reaction mixture.

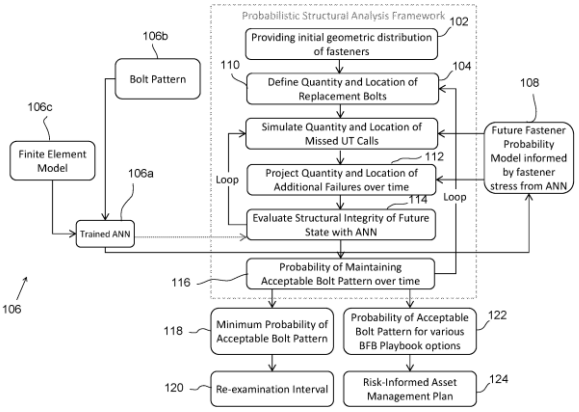
21: 2023/07014. 22: 2023/07/11. 43: 2024/05/08
51: A61K; A61P
71: LUPIN LIMITED
72: BHONDE, Mandar Ramesh, PATRA, Sukanya, PALLE, Venkata P., KAMBOJ, Rajender Kumar
33: IN 31: 202121002487 32: 2021-01-19
54: PHARMACEUTICAL COMBINATIONS OF SOS1 INHIBITORS FOR TREATING AND/OR PREVENTING CANCER
00: -
This disclosure relates to pharmaceutical combinations for treating and/or preventing cancer and methods and uses thereof. More particularly, provided is a pharmaceutical combination comprising a SOS1 Inhibitor and an additional active ingredient selected from a KRAS inhibitor such as a KRAS G12C inhibitor and a KRAS G12D inhibitor, KRAS G13C inhibitor, and pan KRAS inhibitor; an EGFR inhibitor; an ERK1/2 inhibitor; a BRAF inhibitor; a pan-RAF inhibitor; a MEK inhibitor; a AKT inhibitor; a SHP2 inhibitor; protein arginine methyltransferases (PRMTs) inhibitor such as a PRMTS inhibitor and Type 1 PRMT inhibitor; a PI3K inhibitor; a cyclin -dependent kinase (CDK) inhibitor such as CDK4/6 inhibitor; a FGFR inhibitor; a c-Met inhibitor; a RTK inhibitor; a non-receptor tyrosine kinase inhibitor; a histone methyltransferases (HMTs) inhibitor; a DNA methyltransferases (DNMTs) inhibitor; a Focal Adhesion Kinase (FAK) inhibitor; a Bcr-Abl tyrosine kinase inhibitor; a mTOR inhibitor; a PD1 inhibitor; a PD-L1 inhibitor; CTLA4 inhibitor; and chemotherapeutic agents such as gemcitabine, doxorubicin, cisplatin, carboplatin, paclitaxel, docetaxel, topotecan, irinotecan and temozolomide.

21: 2023/07395. 22: 2023/07/25. 43: 2024/05/08
51: E04H
71: JIANGSU SHEMAR ELECTRIC CO., LTD.
72: MA, Bin, YU, Jie, HUANG, Qing
33: CN 31: 202110206367.9 32: 2021-02-24
54: COMPOSITE CROSSARM AND POWER TRANSMISSION TOWER
00: -
The present application discloses a composite crossarm and a power transmission tower. The composite crossarm includes a post insulator and three suspension insulators. The post insulator and the suspension insulators each has an end configured to be connected to a tower body of the power transmission tower, and another end connected together to form an end of the composite crossarm that is configured to attach a transmission line. The three suspension insulators are arranged at intervals around the post insulator. Axes of two suspension insulators and an axis of the post insulator are in the same plane. The two suspension insulators whose axes are in the same plane as the axis of the post insulator are defined as first suspension insulators, the remaining suspension insulator is defined as a second suspension insulator. The two first suspension insulators form an angle ranged from 45° to 90°.



21: 2023/07680. 22: 2023/08/03. 43: 2024/05/08
51: G06F; G21D
71: FRAMATOME INC.
72: TROYER, Greg, MATTHEWS, Todd, THALLAPRAGADA, Pavan
33: US 31: 63/145,074 32: 2021-02-03
54: PROBABILISTIC EVALUATION OF FASTENER DEGRADATION IN NUCLEAR POWER PLANTS
00: -

A probabilistic method for determining an operability interval for fasteners in a nuclear power plant assembly includes providing a geometric distribution of a given initial condition of fasteners in the nuclear power plant assembly at an initial time T0; generating a plurality of random future fastener failure patterns by applying a fastener failure probability model to the geometric distribution at a given time T1 > T0; inputting the plurality of random future fastener failure patterns at time T1 into a machine learning model and outputting stresses of the fasteners and displacements of the components; iterating, by a processor of a computer, the applying and inputting steps for a given range of time values T2, T3,..., Tx >T0 and determining a maximum future time Tmax at which a predetermined acceptable probability of the fastener failure patterns having acceptable values of the stresses of the fasteners and displacements of the components, thereby justifying the acceptability of the fasteners for continued operation of the nuclear power plant assembly; and determining the operability interval as being the maximum future time Tmax minus the initial time T0.



21: 2023/08017. 22: 2023/08/18. 43: 2024/05/23
51: A47J
71: AFRICAN BEAST BRAAIER (PTY) LTD
72: Dr Johannes Christiaan BOTHA
54: BARBEQUE ARRANGMENT
00: -
The invention discloses a barbeque arrangement, includes mobile grilling means; support means adapted to support the mobile grilling means above the ground; a first ground plate means adapted to be located under the mobile grilling means and collecting ash and/or grease and/or oils and/or fat and/or sparks falling from the mobile grilling means. The first ground plate includes a circumferential ridge to prevent ash and/or coal and of oils and/or grease to flow or fall over the sides of the first ground plate. The mobile grilling means may be a second ground plate which is adapted to be located above the first ground plate.

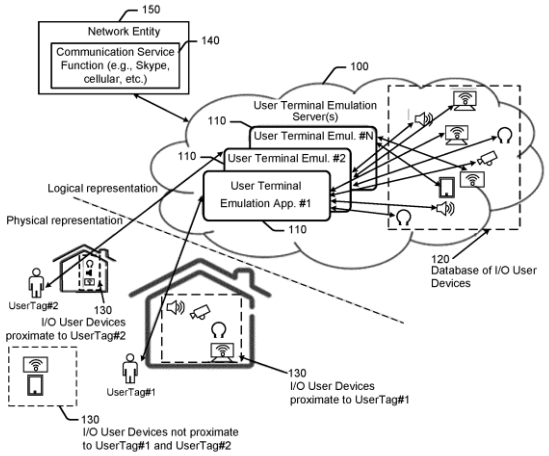
21: 2023/08381. 22: 2023/08/30. 43: 2024/05/08
51: A41D; A61K; A61P
71: SHIJIAZHUANG YILING PHARMACEUTICAL CO., LTD.
72: JIA, Zhenhua
33: CN 31: 202110482092.1 32: 2021-04-30
33: CN 31: 202210059971.8 32: 2022-01-19
54: ANTIMICROBIAL ESSENTIAL OIL COMPOSITION, PRODUCT COMPRISING SAME, AND PREPARATION METHOD FOR PRODUCT THEREOF
00: -
Disclosed is an antimicrobial essential oil composition comprising: carvacrol; thymol; and one or more selected from lemon oil, sweet orange oil, daidai peel oil, sweet lemon oil and shaddock oil; one or more selected from the group consisting of Asian peppermint oil, cornmint oil, peppermint oil, and pennyroyal oil; one or more selected from the group consisting of laureth oil and glycine: one or more selected from the group consisting of patchouli oil, sandalwood oil and rosemary oil; one or more selected from the group consisting of geranium oil, pine needle oil, and cedarwood oil; and optionally one or more selected from the group consisting of perilla oil, chrysanthemum oil, and Chinese chaste tree oil. A product containing the antimicrobial essential oil composition, a product containing the antimicrobial essential oil composition, and a preparation method of the product thereof are also disclosed.

21: 2023/08656. 22: 2023/09/11. 43: 2024/04/02
51: H01H; H04L; G06N
71: Dr. Vishal Sharma
72: Dr. Vishal Sharma
54: A SYSTEM TO COMPARE VARIOUS QUANTUM CRYPTOGRAPHY PROTOCOLS UNDER NOISY CONDITIONS
00: -

A SYSTEM TO COMPARE VARIOUS QUANTUM CRYPTOGRAPHY PROTOCOLS UNDER NOISY CONDITIONS - The present invention provides a system to study the effect of noise on various protocols of secure quantum communication. Specifically, we have investigated the effect of amplitude damping, phase damping, squeezed generalized amplitude damping, Pauli type as well as various collective noise models on the protocols of quantum key distribution, quantum key agreement, quantum secure direct quantum communication and quantum dialogue. From each type of protocol of secure quantum communication, we have chosen two protocols for our comparative study: one based on single-qubit states and the other one on entangled states. The comparative study reported here has revealed that single-qubit-based schemes are generally found to perform better in the presence of amplitude damping, phase damping, squeezed generalized amplitude damping noises, while entanglement-based protocols turn out to be preferable in the presence of collective noises. It is also observed that the effect of noise depends upon the number of rounds of quantum communication involved in a scheme of quantum communication. Further, it is observed that squeezing, a completely quantum mechanical resource present in the squeezed generalized amplitude channel, can be used in a beneficial way as it may yield higher fidelity compared to the corresponding zero squeezing case.

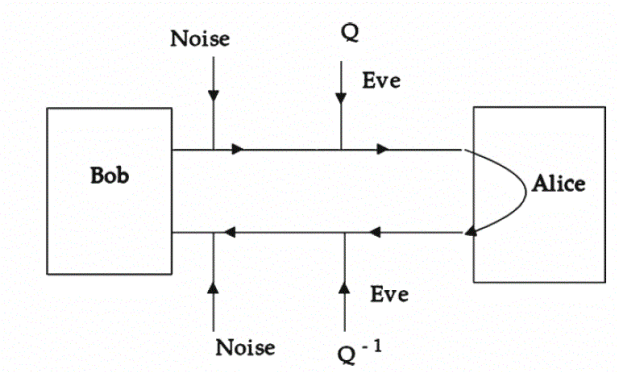
21: 2023/08680. 22: 2023/09/11. 43: 2024/04/02
51: A23J; A23K; A23L; B01J
71: Ynsect NL B.V.
72: HAGEMANS, Selke, AALBERS, Jan Jordan, PETERS, Guus, VAN DE POLL, Jonkheer Theodoor Hendrik, ZANEN, Paul Sjerp, D'ANCONA, Coen Willem
33: NL 31: 2027887 32: 2021-03-31
54: TEXTURED EDIBLE PROTEIN PRODUCT DERIVED FROM INSECT LARVAE OR WORMS
00: -
The invention relates to a process and a system for producing a textured edible protein product derived from insect larvae or worms. The process comprises a) reducing the insect larvae or worms in size to obtain a pulp, b) mixing the pulp with a hydrocolloid that gelates with metal cations in aqueous solution to form a protein-hydrocolloid slurry, and c) injecting the protein-hydrocolloid slurry into an aqueous solution of a metal cation with a valency of at least 2 to form the textured edible protein product. In step c) the protein-hydrocolloid slurry is jetted under pressure from outside of the aqueous solution of a metal cation with a valency of at least 2 into the aqueous solution at an oblique angle with respect to a liquid surface of the aqueous solution, thereby producing flakes of the textured edible protein product in the aqueous solution, in which flakes substantially all hydrocolloid has been gelated with the metal cations.

21: 2023/08699. 22: 2023/09/12. 43: 2024/05/08
51: H04L
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: ARNGREN, Tommy, ÖKVIST, Peter, HANNU, Hans, BERGKVIST, Adam, LINDSTRÖM, Daniel, WÄNSTEDT, Stefan, LINDERO, David
54: PROVIDING COMMUNICATION SERVICES THROUGH I/O USER DEVICES TO A USER
00: -
A user terminal emulation server (100) provides communication services through one or more input and/or output (I/O) user devices (130) to a user (UserTag#!, UserTag#2). The user terminal emulation server is configured to register the user with a network entity (150) providing the communication services, and predict that an I/O user device will become proximately located to the user. Based on the prediction that the I/O user device will become proximately located to the user, the user terminal emulation server determines that the I/O user device has an I/O user interface that satisfies a capability criterion to enable the user to use a first one of the communication services. Based on the satisfaction of the capability criterion and before the user is predicted to become proximately located to the I/O user device, the user terminal emulation server signals the I/O user device to prepare for using the I/O user interface to provide the first communication service for the user through the network entity.

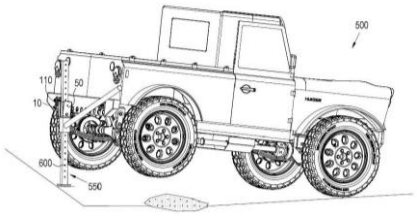


21: 2023/08718. 22: 2023/09/12. 43: 2024/05/08
51: A01N; C05G; A01P
71: EVERGREEN GARDEN CARE FRANCE SAS
72: DAUFFY, Jérémy, HENRY, Pauline, MARTEL, Laurent
33: FR 31: 2102826 32: 2021-03-22
54: METHOD FOR PREVENTIVE TREATMENT OF A PLANT
00: -
This invention relates to a method of preventive treatment of a plant to prevent infestation by a parasite, consisting of applying to said plant a vegetable oil or a composition containing said plant oil to form a physical barrier to the parasite, before infestation occurs.

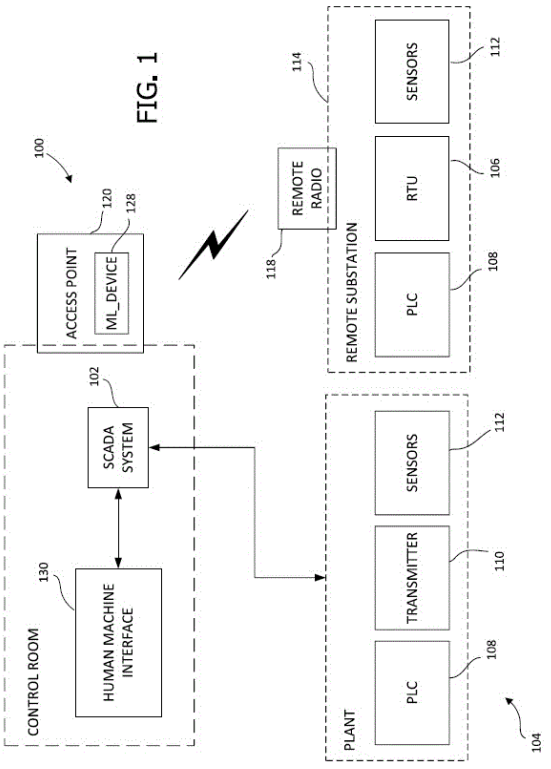
21: 2023/09028. 22: 2023/09/26. 43: 2024/03/26
51: H04B; H04H; G06N
71: Dr. Vishal Sharma
72: Dr. Vishal Sharma
54: A SYSTEM TO STRENGTHEN QUANTUM CRYPTOGRAPHY SECURITY
00: -
In quantum key distribution, one conservatively assumes that the eavesdropper Eve is restricted only by physical laws, whereas the legitimate parties, namely the sender Alice and receiver Bob, are subject to realistic constraints, such as noise due to environment-induced decoherence. In practice, Eve too may be bound by the limits imposed by noise, which can give rise to the possibility that decoherence works to the advantage of the legitimate parties. A particular scenario of this type is one where Eve can't replace the noisy communication channel with an ideal one, but her eavesdropping channel itself remains noiseless. Here, we point out such a situation, where the security of the ping–pong protocol (modified to a key distribution scheme) against a noise-restricted adversary improves under a non-unital noisy channel but deteriorates under unital channels. This highlights the surprising fact that, contrary to the conventional expectation, noise can be helpful to quantum information processing. Furthermore, we point out that the measurement outcome data in the context of the non-unital channel can't be simulated by classical noise locally added by the legitimate users.



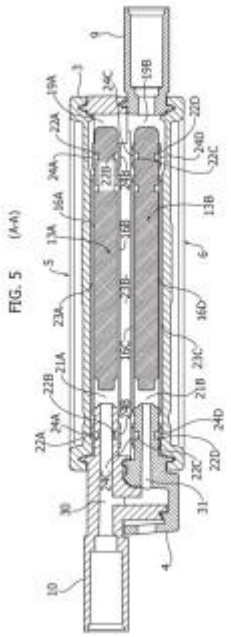
21: 2023/09037. 22: 2023/09/26. 43: 2024/03/26
51: B60D
71: Jack Out, LLC
72: HENRIKSON, Patrick Michael
33: ZA 31: 2022/10703 32: 2022-09-28
54: AN ACCESSORY FOR A VEHICLE
00: -
The invention relates to a vehicle accessory assembly suitable for releasably and securely receiving a track of a trail jack, the vehicle accessory assembly being connectable to a standard two-inch receiver hitch system or a ball hitch system and/or a pintle hitch system such that one or more wheels of a vehicle may be freed from an obstruction on a road or trail, the obstruction being one or more of soft sand, mud, marshy land, snow, potholes and/or sinkholes and wherein the vehicle accessory assembly allows for the lifting and movement of the vehicle in a range of directions in order to free it from the obstruction on the road or trail.



21: 2023/09039. 22: 2023/09/26. 43: 2024/03/26
51: G05B; G06F; G06N; H04L; H04W
71: Schneider Electric (Australia) Pty Ltd.
72: COMBER, Brett
33: US 31: 63/377,217 32: 2022-09-27
54: MANAGING REMOTE TERMINAL COMMUNICATIONS
00: -
Methods and systems for managing remote terminal communications in remote Supervisory Control and Data Acquisition (SCADA) and telemetry networks. Reinforced machine learning processes header data of multiple messages received from remote data radios to predict which of the data radios are currently ready with a response to transmit based on or using information associated with a learned time delay. Time on shared wireless channels is efficiently allocated to the data radios that are currently ready with the response.

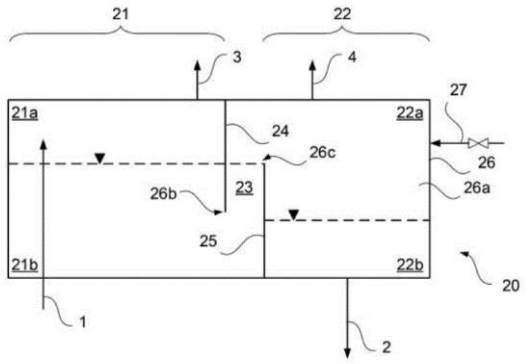


21: 2023/09040. 22: 2023/09/26. 43: 2024/03/26
51: A61M
71: Industrie Borla S.p.A.
72: GUALA, Gianni
33: IT 31: 102022000019893 32: 2022-09-28
54: FILTER FOR INFUSION MEDICAL LINES
00: -
Filter (1) for infusion medical lines comprising a box-like body (2) within which there are arranged four filtering hydrophilic membranes (16A,16B,16C,16D) parallel and spaced from each other so as to form three interspaces (23A,23B,23C) placed in communication with the inlet connector (9) of the liquid to be filtered.



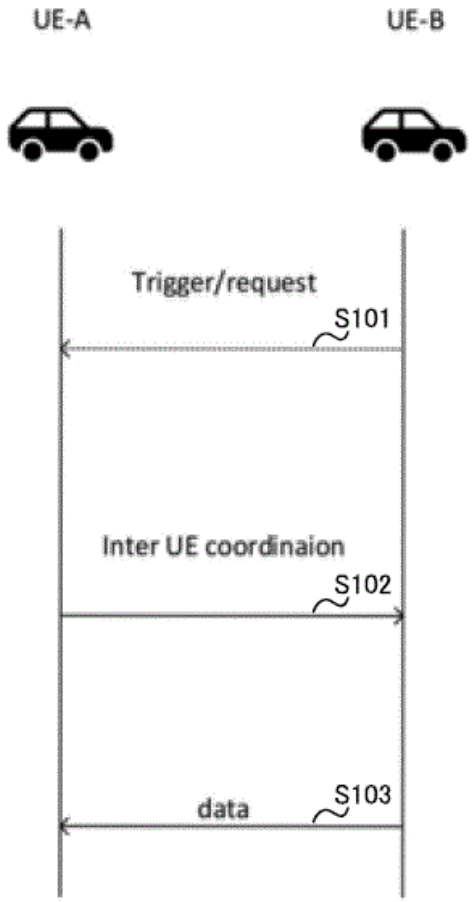
21: 2023/09041. 22: 2023/09/26. 43: 2024/03/26
51: C25B
71: Linde GmbH
72: WOLF, Andreas, WELLENHOFER, Anton, FRUHMANN, Christian, LAUCHNER, Daniela, DILLIG, Marius, CHALAKOVA, Mariyana, MÜLLER-THORWART, Ole, BIRK, Robert, HERZOG, Robert
33: EP(DE) 31: 22020472.1 32: 2022-09-29
54: METHOD AND PLANT FOR PRODUCING ONE OR MORE ELECTROLYSIS PRODUCTS
00: -
A method is proposed for producing one or more electrolysis products, wherein one or more electrolytic cells (10) having a proton exchange membrane is/are used, wherein a hydrogen-rich cathode extraction gas is extracted on the cathode

side of the one or more electrolytic cells (10), wherein an anode extraction gas (3) is extracted on the anode side of the one or more electrolytic cells (10), wherein the anode extraction gas (3) is extracted from the one or more electrolytic cells (10) as part of a two-phase flow (1), wherein the two-phase flow (1) comprises the anode extraction gas (3) and a water phase (2), and wherein the two-phase flow (1) or part thereof is separated in a separator arrangement (20) into the anode extraction gas (3) and the water phase (2). A separator arrangement (20) having a first portion (21), which has a first gas chamber (21a) and a first liquid chamber (21b), and having a second portion (22), which has a second gas chamber (22a) and a second liquid chamber (22b), is used as the separator arrangement (20), wherein the second gas chamber (22a) interrupts liquid contact between the first liquid chamber (21b) and the second liquid chamber (22b), and the first liquid chamber (21b) interrupts gas contact between the first gas chamber (21a) and the second gas chamber (22a). The invention also relates to a corresponding plant.



21: 2023/09042. 22: 2023/09/26. 43: 2024/03/26
51: C07C; C08J; C22B
71: Vale S.A., Universidade Federal do Espírito Santo - UFES
72: VASCONCELOS, Renata Eliane Frank, DA SILVA FILHO, Eloi Alves, DE MELO, Carlos Vital Paixã
33: BR 31: 13 2022 019265 0 32: 2022-09-26
54: DUST SUPPRESSION RESIN AND RESIN USE
00: -
The proposed invention deals with a process of obtaining the dust suppression resin through the chemical recycling of thermoplastic polymer Poly(Ethylene Terephthalate) or PET. A method for obtaining the resin is proposed using the depolymerization reaction methodology of the Poly(Ethylene Terephthalate) polymer obtained from post-consumer PET bottles, in the presence of the quaternary ammonium cationic surfactant. The resin is thus obtained by subsequently being added to the same hydrophilic substance as an increase filler in the final viscosity of the resin. Other additives such as lignin extracted from vegetables, such as leaves and branches of trees, can also be added, being in this case incorporated to make the resin more hydrophobic.

21: 2023/09095. 22: 2023/09/27. 43: 2024/03/27
51: H04W
71: PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA
72: HORIUCHI, Ayako, SUZUKI, Hidetoshi, KANG, Yang
33: JP 31: 2021-055903 32: 2021-03-29
54: COMMUNICATION DEVICE AND COMMUNICATION METHOD
00: -
This communication device comprises a control circuit and a transmission circuit. The control circuit determines which of a plurality of communications to be prioritized, that include transmission and/or reception of information to adjust the use of resources between communication devices in side link communication. A communication circuit performs communication in accordance with the determination of the control circuit.



21: 2023/09115. 22: 2023/09/27. 43: 2024/04/02
51: A61K; C07D; A61P
71: SHANGHAI MEIYUE BIOTECH DEVELOPMENT CO., LTD.
72: GUOZHONG YE, YONG TIAN, ZONGGUO SUN, LINBO LUAN, YONGKAI CHEN, CHAODONG WANG
33: CN 31: 202110297078.4 32: 2021-03-19

54: POLYMORPHIC FORMS OF COMPOUND AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF

00: -

Disclosed in the present invention are polymorphic forms of a compound and a preparation method therefor and an application thereof. A crystal form III of a compound A uses Cu-Kα radiation, and X-ray powder diffraction expressed at 2θ angles has characteristic peaks at 12.15±0.20°, 15.98±0.20°, 16.62±0.20°, 17.14±0.20°, 24.32±0.20°, and 26.08±0.20°. A crystal form VII of the compound A uses Cu-Kα radiation, and X-ray powder diffraction expressed at 2θ angles has characteristic peaks at 12.94±0.20°, 14.41±0.20°, 15.64±0.20°, 17.25±0.20°, 21.75±0.20°, and 24.23±0.20°. The polymorphic forms prepared by the present invention are good in stability and can be stably stored under the conditions of high temperature and low relative humidity.

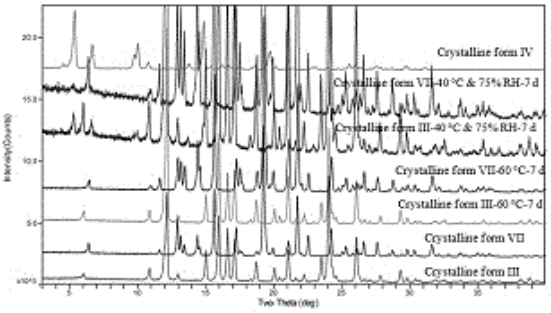
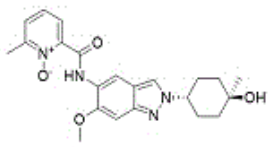


FIG. 28



compound A.

21: 2023/09150. 22: 2023/09/28. 43: 2024/04/02
51: A61K; C07K
71: Shanghai Qilu Pharmaceutical Research and Development Centre Ltd.
72: YANG, Liuqing, GU, Jinming
33: CN 31: 202110243601.5 32: 2021-03-05

54: ANTIBODY AGAINST NKP46 AND APPLICATION OF ANTIBODY

00: -

Provided are an antibody against an NKp46 receptor or an antigen-binding fragment thereof, a derivative comprising the antibody or the antigen-binding fragment thereof, a pharmaceutical composition, and a related application thereof in the treatment of cancer.

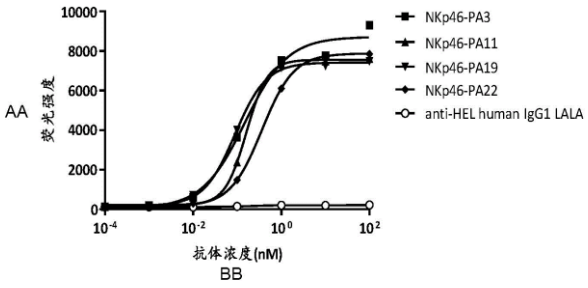


图 3

AA Fluorescence intensity
BB Antibody concentration (nM)

21: 2023/09166. 22: 2023/09/29. 43: 2024/04/02
51: G01S; H04W
71: Comviva Technologies Limited

72: JAIN, Manish, GOYAL, Gaurav
33: IN 31: 202211056280 32: 2022-09-30
54: DEVICE AND METHOD FOR DETECTING AN ELECTRONIC DEVICE LOCATION
00: -
The present subject matter refers to a device and method for detecting an electronic device 100 location. The method includes determining an occurrence of at least one condition from a plurality of conditions. The method further includes periodically acquiring information related to at least one of the electronic device setting functions and factory setting function unit. Thereafter, the method includes determining an availability of the at least one of the electronic device setting functions and factory setting function unit. Thereafter, the method includes enabling at least one of the available electronic device setting functions. Thereafter, the method includes sending the periodically acquired information to a central server through the at least one of the electronic device setting functions and the factory setting function unit to detect a location of the electronic device 100 based on the acquired information.

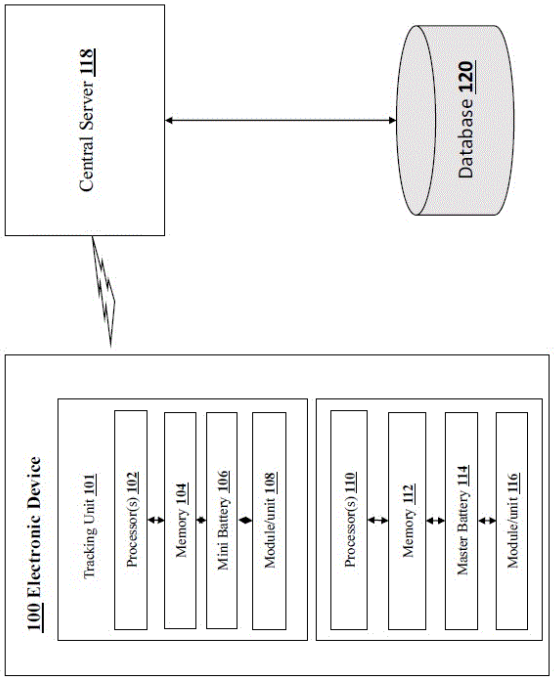


Figure 1

21: 2023/09192. 22: 2023/09/29. 43: 2024/04/02
51: C01B; C01C; C25B
71: Casale SA

72: PANZA, Sergio
33: EP(CH) 31: 21166083.2 32: 2021-03-30
54: PROCESS FOR AMMONIA SYNTHESIS USING GREEN HYDROGEN
00: -
Process for synthesis of ammonia wherein the synthesis of ammonia is performed in a high-pressure synthesis loop (101) which is partially fed with green hydrogen (26) produced from a renewable energy source and hydrogen recovered from a purge stream (21) of the loop is stored in a hydrogen storage (103) to compensate for temporary lack of the green hydrogen when the renewable energy source is not fully available.

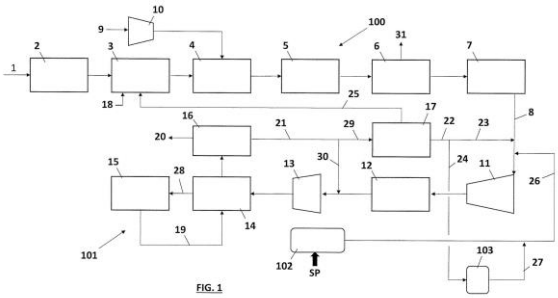
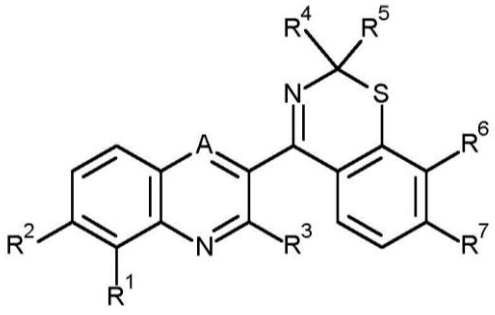


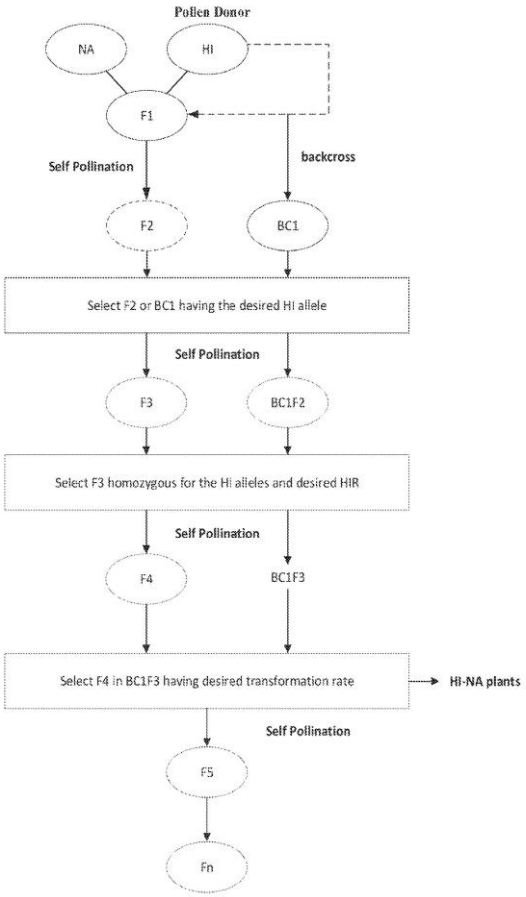
FIG. 1

21: 2023/09195. 22: 2023/09/29. 43: 2024/04/02
51: A01N; C07D
71: Syngenta Crop Protection AG
72: WEISS, Matthias, MAHAJAN, Atul, SEN, Indira, WILLIAMS, Simon
33: IN 31: 202111015219 32: 2021-03-31
54: MICROBIOCIDAL QUINOLINE/QUINOXALINE BENZOTHIAZINE DERIVATIVES
00: -
Compounds of the formula (I) wherein the substituents are as defined in claim 1, useful as pesticides, especially as fungicides.


(I)

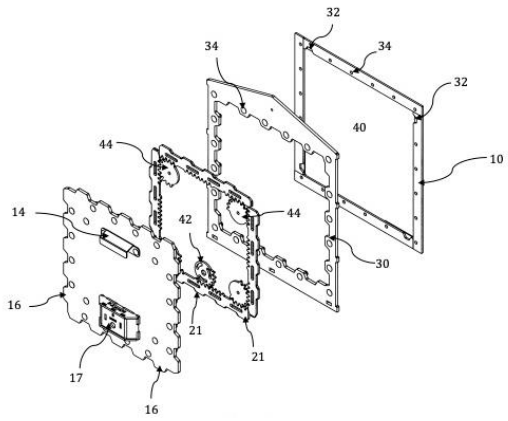
21: 2023/09197. 22: 2023/09/29. 43: 2024/04/02
51: A01H; C07K; C12N

71: Syngenta Crop Protection AG
72: KELLIHER, Timothy Joseph, DELZER, Brent, SKIBBE, David Stewart, NICHOLS, Jason
33: US 31: 63/169,316 32: 2021-04-01
54: INCREASED TRANSFORMABILITY AND HAPLOID INDUCTION IN PLANTS
00: -
Provided herein are highly transformable maize plants, referred to as HI-NA plants, and methods of their production and use. A HI-NA plant, as disclosed herein, is homozygous for a loss-of-function mutant allele in the patatin-like phospholipase A2a (MATL) gene and at least heterozygous for one or more QTL and/or gene alleles that are responsible for increased haploid induction and/or transformation frequency in plants. A HI-NA plant, as disclosed herein, may also have a cytotype A background, which may render it highly transformable. Also provided are methods of producing HI-NA plants and methods of using a HI-NA plant for editing plant genomic DNA.

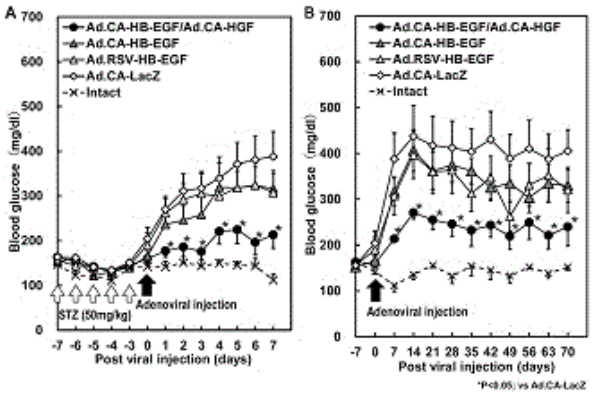


21: 2023/09211. 22: 2023/10/02. 43: 2024/05/31

51: E02D
71: INTERLOCK SYSTEMS (PTY) LTD
72: NEIL VAN RENSBURG
54: MAN HOLE COVER
00: -
This invention relates to a vandalised proof cover arrangement for an opening and more particularly is a patent of addition to South African Patent Number 2014/06335.

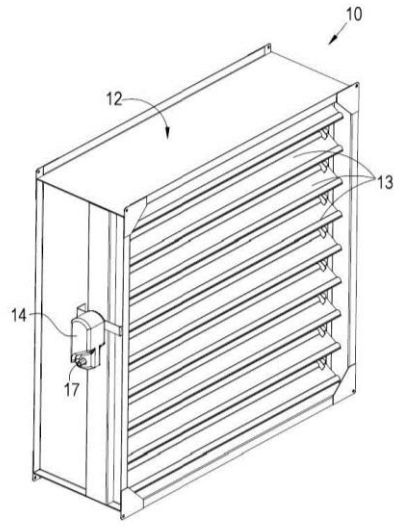


21: 2023/09227. 22: 2023/10/02. 43: 2024/04/03
51: A61K; C07K; C12N; A61P
71: KAGOSHIMA UNIVERSITY
72: KEN-ICHIRO KOSAI, ERIKO MATSUDA
33: JP 31: 2021-033714 32: 2021-03-03
33: JP 31: 2021-145796 32: 2021-09-07
54: HB-EGF GENE THERAPY FOR DIABETES
00: -
The present invention provides a new gene therapy method which is less invasive and is capable of providing a desired therapeutic effect on diabetes including T1D. Specifically, provided is a pancreatic β cell protecting/regenerating formulation for mammals with diabetes, the formulation containing a nucleic acid that encodes a heparin-binding epidermal growth factor-like growth factor (HB-EGF). The formulation is characterized by being systemically administered. The above-described formulation containing, in combination, a nucleic acid that encodes a hepatocyte growth factor (HGF) is also provided.

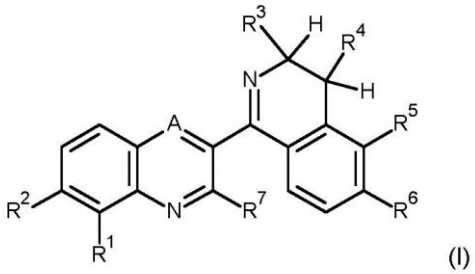


21: 2023/09234. 22: 2023/10/03. 43: 2024/04/03
51: E21F; F24F

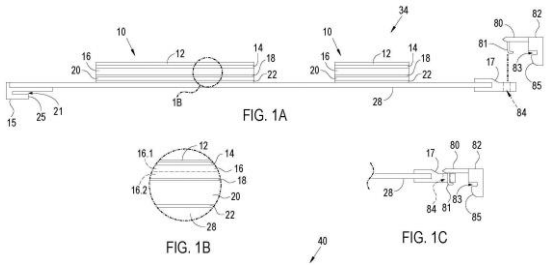
71: GLAESER, Frank George
72: GLAESER, Frank George
54: Underground airflow control system and method
00: -
The invention relates to an underground airflow control system 30 which includes a plurality of underground airflow control devices 10 and at least one detector 15. Each underground airflow control device 10 includes a louvred framework 12 which includes a series of overlapping slats 13 which are movable between a closed position in which airflow through the louvred framework 12 is inhibited and an open position in which the louvred framework 12 defines openings between the slats 13 for the passage of air therethrough. Each control device 10 includes an actuator 14 which is drivingly connected to the slats 13 of the louvred framework 12 and is configured automatically to move the slats 13 from their closed position to their open position upon receipt of an input signal from the detector 15, thereby to vent unwanted, underground, contaminated air to atmosphere.



21: 2023/09290. 22: 2023/10/04. 43: 2024/04/10
51: A01N; C07D
71: Syngenta Crop Protection AG
72: WEISS, Matthias, MAHAJAN, Atul, SEN, Indira, PASCANU, Vlad
33: IN 31: 202111018248 32: 2021-04-20
54: MICROBIOCIDAL QUINOLINE/QUINOXALINE ISOQUINOLINE DERIVATIVES
00: -
Compounds of the formula (I) wherein the substituents are as defined in claim 1, useful as pesticides, especially as fungicides.



21: 2023/09299. 22: 2023/10/04. 43: 2024/04/10
51: B41F; B41N; G03F
71: PMD Dies & Stereos Proprietary Limited
72: ZEVENBERGEN, LEON MARE (Deceased)
33: ZA 31: 2021/02311 32: 2021-04-08
54: FLEXOGRAPHIC PRINTING
00: -
A method of forming a digital image on a flexographic printing plate comprising: attaching a portion of photopolymer to a dimensionally stable backing sheet; attaching a lead edge strip and a trail edge strip to said dimensionally stable backing sheet to form a flexographic printing plate; securing the flexographic printing plate comprising a portion of photopolymer to an imaging cylinder by securing the lead edge strip to a lead edge lock formation and securing said trail edge strip to a trail edge lock formation; imparting an image to said portion of photopolymer; and washing said photopolymer to remove unreacted photopolymer and drying said photopolymer to form a processed flexographic printing plate.

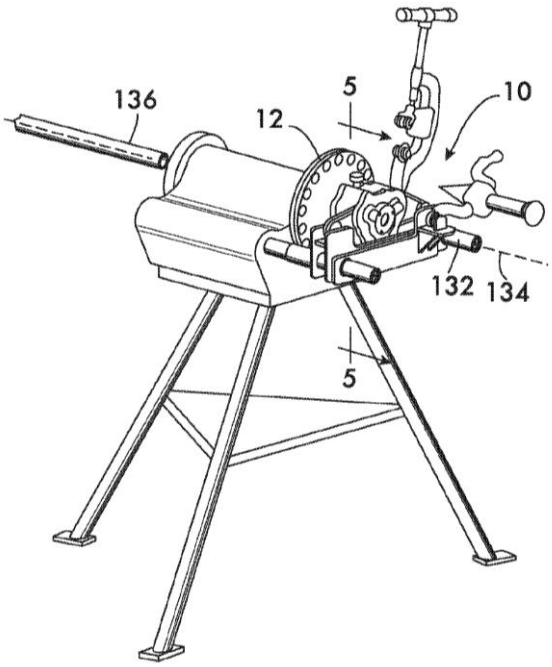


21: 2023/09338. 22: 2023/10/06. 43: 2024/05/08
51: B21D; B21H
71: VICTAULIC COMPANY
72: DOLE, Douglas R.
33: US 31: 15/585,457 32: 2017-05-03

54: CAM GROOVING MACHINE WITH CAM STOP SURFACES

00: -

A device for cold working pipe elements has two or more cams, each having a gear, the gears being synchronized to turn all of the cams. Each cam has a cam surface with a region of increasing radius and may have a region of constant radius extending around a cam body. One or more cams may also have a traction surface extending around a cam body. A discontinuity in each cam surface is aligned with a gap in the traction surface of each cam. The discontinuities and gaps provide clearance for insertion and removal of the pipe element between the cams to form a circumferential groove when the cams are rotated. An engagement body is mounted between the cams to engage and disengage from a stop surface on one of the cams. Engagement between the engagement body and a stop surface prevents rotation of the cams.

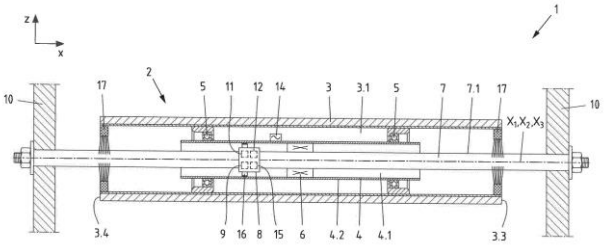


21: 2023/09364. 22: 2023/10/06. 43: 2024/04/10
51: B65G
71: ScrapeTec GmbH
72: DÜNNWALD, Wilfried, PRENNER, Michael, KOTH, Thorsten
33: DE 31: 10 2021 108 695.7 32: 2021-04-08

54: APPARATUS HAVING A GUIDE UNIT FOR GUIDING A CONVEYOR BELT

00: -

An apparatus (1) for guiding a conveyor belt, having a guide unit (2) with an outer hollow-cylindrical body (3)and an inner hollow-cylindrical body (4), wherein the inner hollow-cylindrical body (4) has a first middle axis and is arranged in the outer hollow-cylindrical body (3), which has a second middle axis, and the two hollow-cylindrical bodies each have a middle axis (X_1, X_2), having at least one bearing (5) for the rotatable mounting of the outer hollow-cylindrical body on the inner hollow-cylindrical body, and having an articulation body (6), which is designed for mounting the inner hollow-cylindrical body (4) on a central spindle (7), wherein the articulation body (6) is also designed to allow a horizontal and/or vertical change in angle of the first and/or second middle axis (X_1, X_2) relative to a middle axis (X_3) of the central spindle, wherein the apparatus is provided with a measuring and evaluating system (8), which has a sensor unit (9) arranged inside and/or outside the guide unit (2), wherein the measuring and evaluating system (8) is designed to detect the change in angle.

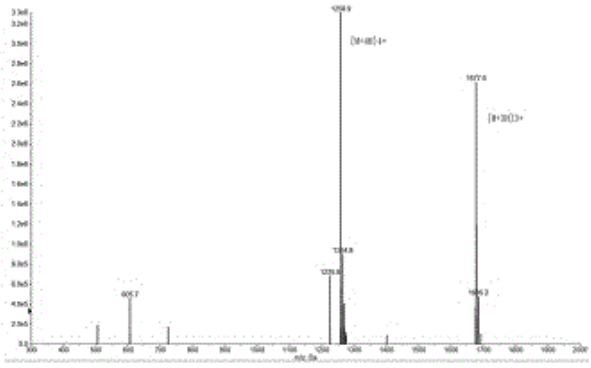


21: 2023/09366. 22: 2023/10/06. 43: 2024/04/10
51: A61K; C07K; A61P
71: BRIGHTGENE BIO-MEDICAL TECHNOLOGY CO., LTD., BRIGHTGENE PHARMACEUTICAL (SUZHOU) CO. LTD.
72: JIANDONG YUAN, YUNSONG SONG, WENTENG ZHEN, YUE CAI, JIANING GU, YANGQING HUANG
33: CN 31: 202110321851.6 32: 2021-03-25
33: CN 31: 202110553745.0 32: 2021-05-20

54: GIP AND GLP-1 DUAL RECEPTOR AGONIST, PHARMACEUTICAL COMPOSITION, AND USE

00: -

A GIP and GLP-1 dual receptor agonist, a pharmaceutical composition, and the use. In particular, the present application relates to a compound represented by formula I, a pharmaceutical composition comprising the compound, and the use of the compound as a GIP and GLP-1 dual receptor agonist in the field of medicine. The compound represented by formula I exhibits excellent GIPR and GLP-1R agonist activity and excellent pharmaceutical activity in reducing blood sugar and controlling body weight, is a therapeutic drug having a clinical application prospect, and can be used for preventing and treating diseases such as diabetes, diabetes complications, obesity, or obesity complications.

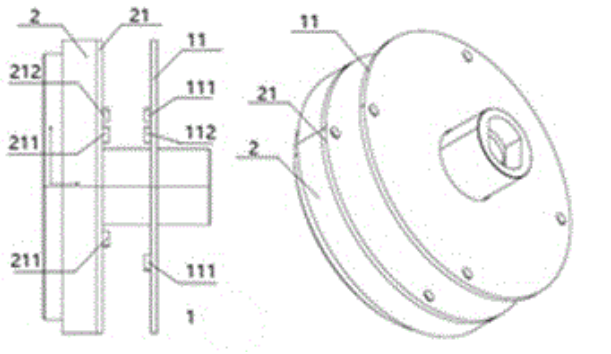


21: 2023/09367. 22: 2023/10/06. 43: 2024/04/10
51: H01R
71: ENVISION ENERGY CO., LTD
72: PENG ZHAO, HAIPENG CHEN, CUIXIA ZHANG, ZILIN ZHAO
33: CN 31: 202110358909.4 32: 2021-04-01

54: OPTICAL-COUPLING NON-CONTACT COMMUNICATION SLIP RING FOR WIND TURBINE

00: -

The present invention relates to the technical field of communication slip rings. An optical-coupling non-contact communication slip ring for a wind turbine comprises: a slip ring stator, having a first optical communication apparatus; and a slip ring rotor, configured to be rotatable relative to the slip ring stator, the slip ring rotor having a second optical communication apparatus, wherein the first optical communication apparatus and the second communication apparatus are configured to be capable of wirelessly communicating with each other without contact. The present invention uses a non-contact technical solution and solves the problem of contact failure in contact slip rings. Optical coupling has a lower cost than other coupling modes; in addition, the optical-coupling non-contact communication slip ring can still work normally when a failure occurs in part of a coupling device, and thus has a high reliability.



21: 2023/09416. 22: 2023/10/09. 43: 2024/05/21
51: A61K; A61P
71: Creative Biotherapeutics, LLC
72: Donald DAVIDSON
33: US 31: 17/235,652 32: 2021-04-20

54: ANTIVIRUS PROTEINS HAVING A KRINGLE 5 SUBUNIT

00: -

COVID-19 results from the infection of the SARS-CoV-2 virus and has spread quickly to literally infected the world. Although coronavirus spike proteins can recognize a broad range of host cell-surface proteins, inhibiting spike protein binding to a survival factor called GRP78 results in a significant reduction in SARS-CoV-2 attachment, entry and replication in lung and kidney cells. This inhibition is accomplished with a novel type of inhibitor that potently blocks the binding of SARS-CoV-2 spike protein and whole virus to surface-bound GRP78. These novel GRP78 inhibitors also down regulate cytokines (IL10, IL6), immune co-inhibitory checkpoint proteins (PD-L1, B7H3, B7H4), and up regulate immune co-stimulatory proteins (MHC-II, CD-86) resulting in the reduction of the immune suppressive nature of infected lung alveolar epithelial cells in vitro and in vivo. Finally, these novel GRP78 inhibitors inhibit the hyperfibrinolysis of infected lung cells by reducing the activation of plasmin on cell surfaces.

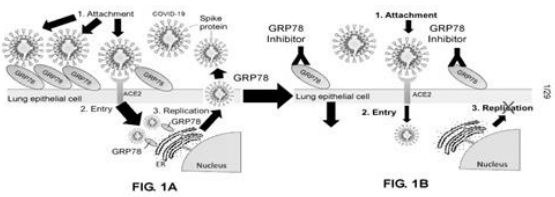


FIG. 1A FIG. 1B

21: 2023/09416. 22: 2023/10/09. 43: 2024/05/21

51: A61K; A61P
71: Creative Biotherapeutics, LLC
72: Donald DAVIDSON
33: US 31: 17/235,652 32: 2021-04-20
54: ANTIVIRUS PROTEINS HAVING A KRINGLE 5 SUBUNIT
00: -
COVID-19 results from the infection of the SARS-CoV-2 virus and has spread quickly to literally infected the world. Although coronavirus spike proteins can recognize a broad range of host cell-surface proteins, inhibiting spike protein binding to a survival factor called GRP78 results in a significant reduction in SARS-CoV-2 attachment, entry and replication in lung and kidney cells. This inhibition is accomplished with a novel type of inhibitor that potently blocks the binding of SARS-CoV-2 spike protein and whole virus to surface-bound GRP78. These novel GRP78 inhibitors also down regulate cytokines (IL10, IL6), immune co-inhibitory checkpoint proteins (PD-L1, B7H3, B7H4), and up regulate immune co-stimulatory proteins (MHC-II, CD-86) resulting in the reduction of the immune suppressive nature of infected lung alveolar epithelial cells in vitro and in vivo. Finally, these novel GRP78 inhibitors inhibit the hyperfibrinolysis of infected lung cells by reducing the activation of plasmin on cell surfaces.

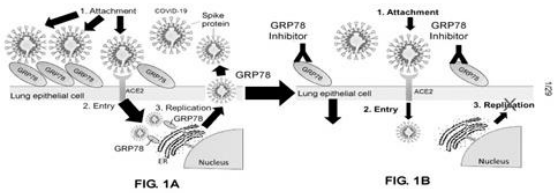


FIG. 1A FIG. 1B

21: 2023/09417. 22: 2023/10/09. 43: 2024/04/10
51: G16H
71: SCANMED HEALTH PROPRIETARY LIMITED
72: MURPHY, Patrick
33: ZP 31: 2021/05492 32: 2021-08-03
54: A METHOD AND COMPUTER SYSTEM FOR MANAGING PATIENT CONSULTATIONS
00: -
A computer system 10 for managing a consultation between a patient and a medical service provider wherein the patient is a member of a medical insurance scheme operated by a medical insurance provider. The computer system 10 includes a consultation management server 12 for managing a consultation between a patient and a medical service provider; and a registration management server 14 for registration of medical insurance providers, patients and medical service providers as part of a medical consultation network. The consultation management server 12 includes a consultation recordal module 18 operable to: a) record a reason for the consultation; b) record GPS co-ordinates of a location at which the consultation takes place; c) record a date on which the consultation takes place; d) record a start time at the commencement of the consultation; e) record an end time at the conclusion of the consultation, and send the patient a notification including the recorded information after the conclusion of the consultation.

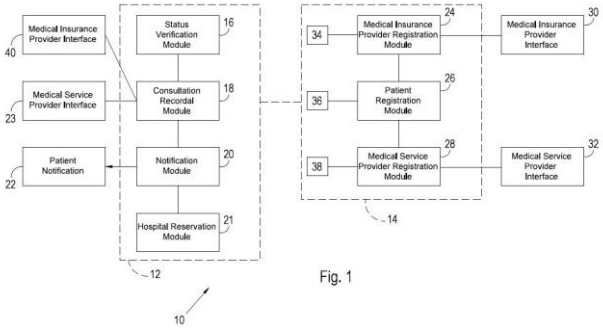
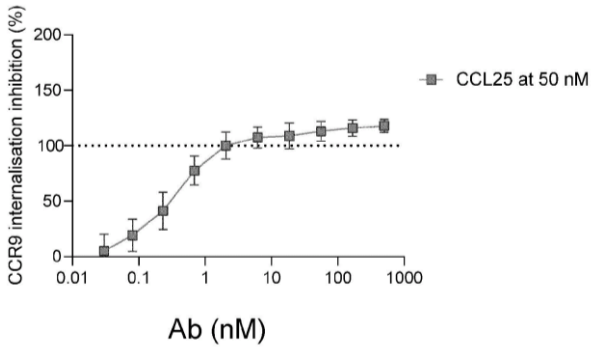


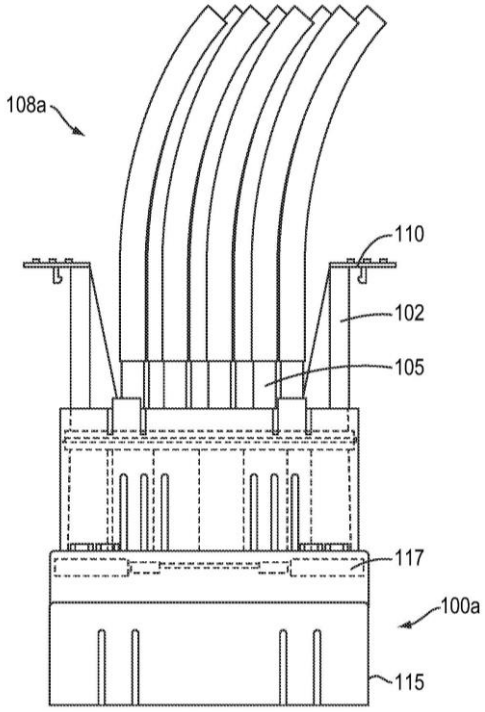
Fig. 1

21: 2023/09418. 22: 2023/10/09. 43: 2024/04/10
51: A61K; A61P; C07K
71: MedImmune Limited
72: NYS, Josquin Arnaud, THOM, Albert George, CARIUK, Peter, SCHOFIELD, Darren Jonathan, RILEY, Aidan, HUNTINGTON, Catherine Eugenie Chaillan, REES, David Gareth, IRVING, Lorraine, ROBINSON, Matthew
33: US 31: 63/162,603 32: 2021-03-18
54: THERAPEUTIC BINDING MOLECULE THAT BINDS TO CCR9
00: -
The invention relates to binding molecules, such as antibodies, that bind to the chemokine receptor CCR9. More particularly, the invention relates to the treatment of CCR9-mediated diseases or conditions such as inflammatory bowel disease (IBD), and methods for the detection of CCR9, which make use of the binding molecules of the invention.

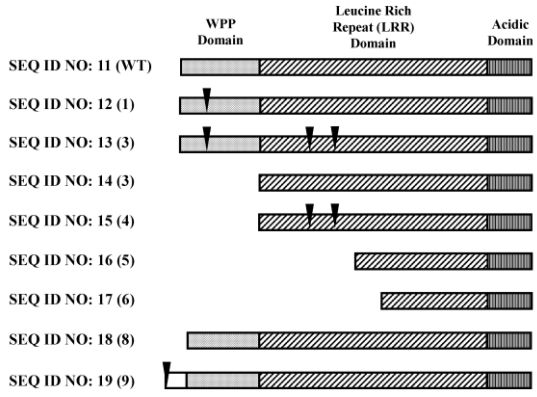


21: 2023/09446. 22: 2023/10/10. 43: 2024/04/11
51: A61P
71: Janssen Pharmaceutica NV
72: SAIAH, Eddine, O'NEILL, David John, KANG, Seong Woo Anthony
33: US 31: 62/685,666 32: 2018-06-15
54: RAPAMYCIN ANALOGS AND USES THEREOF
00: -
The present invention provides compounds, compositions thereof, and methods of using the same.

21: 2023/09491. 22: 2023/10/11. 43: 2024/04/11
51: A61M
71: SUNFLOWER THERAPEUTICS, PBC
72: BONNYMAN, Alexandra, LOVE, Kerry R., WEINER, Larry, LOVE, John Christopher, KAHATT, Espir, AL-SHAMSIE, Ziad, REISMAN, Ben, GOLDBLATT, Alex
33: US 31: 63/163,167 32: 2021-03-19
54: ASEPTIC CONNECTOR FOR FLUID CONDUITS
00: -
An aseptic connector includes first and second matable housings each comprising a plurality of connectors for fluid conduits. The fluid conduits enter the housings and may be force-fitted onto barbs or flanges on one side of the connectors, or may instead be molded directly onto the connectors. When the housings are joined, the opposite sides of the connectors mate to form fluid seals, thereby establishing fluid pathways between now-connected sets of tubes.

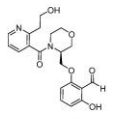


21: 2023/09507. 22: 2023/10/11. 43: 2024/04/11
51: A01H; C12N
71: PLANTARC BIO LTD.
72: SHALITIN, Dror, GRIMBERG, Noam, KATZ, Aviva
33: US 31: 63/178,171 32: 2021-04-22
54: TRANSGENIC PLANTS WITH IMPROVED TRAITS
00: -
This disclosure relates to stay-green plants and plants with increased agricultural productivity, as well as to methods for obtaining same.

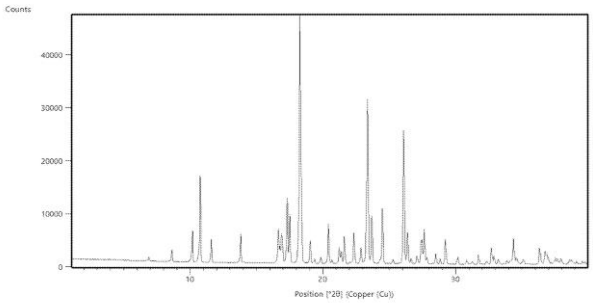


21: 2023/09517. 22: 2023/10/11. 43: 2024/04/11

51: A61K; A61P; C07D
71: Global Blood Therapeutics, Inc.
72: PARENT, Stephan D., HOUSTON, Travis Lee, JOHNSON, Courtney S., WANG, Fang
33: US 31: 63/188,833 32: 2021-05-14
54: SOLID FORMS OF A MODULATOR OF HEMOGLOBIN
00: -
Forms of (S)-2-hydroxy-6-((4-(2-(2-hydroxyethyl)nicotinoyl)morpholin-3-yl)methoxy)benzaldehyde (Compound I), or salts or solvates thereof, were prepared and characterized in the solid state. Also provided are processes of manufacture and methods of using the forms of Compound I.

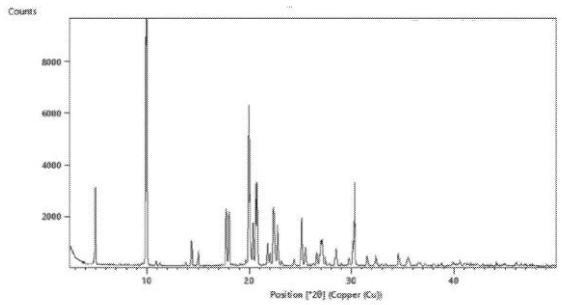


Compound I

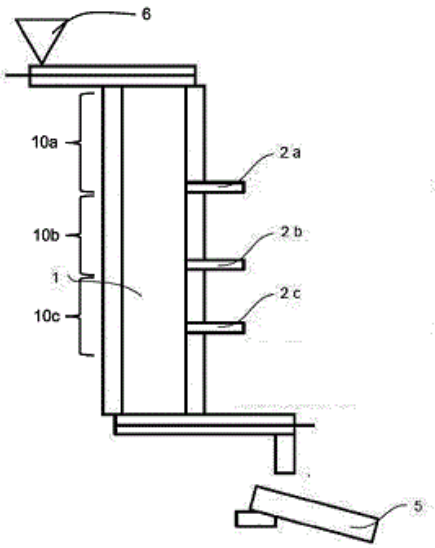


21: 2023/09546. 22: 2023/10/12. 43: 2024/04/12
51: A01N; C07D
71: Adama Agan Ltd.
72: ARONHIME, Judith, SELLA-EREZ, Rotem
33: US 31: 62/961,233 32: 2020-01-15
54: AGROCHEMICAL COMPOSITION OF SOLID STATE FORM OF PYROXASULFONE
00: -
The present disclosure relates to an agrochemical composition of a solid state form of Pyroxasulfone, processes for preparation thereof.

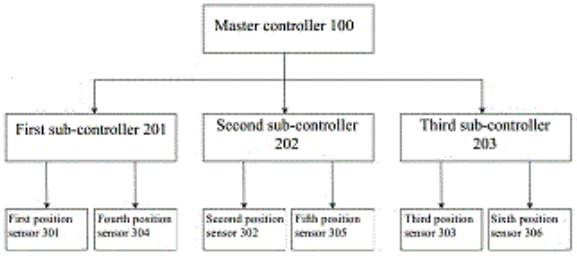
Figure 1: An X-ray powder diffractogram (XRPD) of Form A of Pyroxasulfone



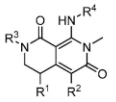
21: 2023/09551. 22: 2023/10/12. 43: 2024/04/12
51: C10B
71: MICROWAVE SOLUTIONS GMBH
72: STAPELA, Annelie, ROSSOUW, Mathys Johannes
33: CH 31: 00312/21 32: 2021-03-24
54: COMBINED MICROWAVE PYROLYSIS AND PLASMA METHOD AND REACTOR FOR PRODUCING OLEFINS
00: -
The invention relates to a pyrolysis method for recovering at least one component from a feedstock material using a thermal treatment. The feedstock material is delivered to a pyrolytic chamber (1), exposed to a controlled atmosphere, and heated to a treatment temperature of the at least one component in the pyrolytic chamber (1) by applying microwave energy. The pyrolysis breakdown products are separated by fractional condensation and a targeted component is decomposed in microwave plasma. The microwave plasma is generated such that plasma temperature is varied over a temperature range including a decomposition and/or cracking temperature of the at least one component.



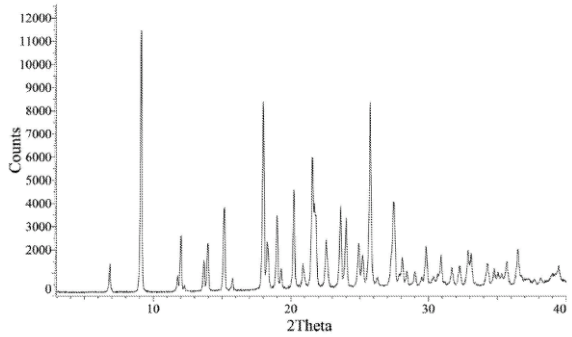
21: 2023/09552. 22: 2023/10/12. 43: 2024/04/12
51: F03D
71: ENVISION ENERGY CO., LTD
72: XIAOYU WANG, ZHENHUA QIAN, PENG LIU, CHUNGUO YANG
54: VARIABLE-PITCH INSTALLATION AND DEBUGGING SYSTEM AND OPERATION METHOD THEREOF
00: -
A variable-pitch installation and debugging system, comprising: a plurality of position sensors (301-306), wherein each of the position sensors (301-306) is configured to be installed at a junction between a variable-pitch system and a blade, so as to detect the position of the blade, and send a position detection result of the blade to a sub-controller (201-203) corresponding to the blade; a plurality of sub-controllers (201-203), wherein each sub-controller (201-203) is configured to determine, according to the position detection result of the blade corresponding to the sub-controller (201-203), whether the blade is at an operation enabling position, and send an enable signal to a master controller (100) if the blade is at the operation enabling position; and the master controller (100) which is configured to operate the blade according to the enable signal. By means of the structure, the problem in the prior art of the installation and debugging of a variable-pitch system being greatly affected by human factors is solved. In addition, the present application further relates to an operation method of the variable-pitch installation and debugging system.



21: 2023/09566. 22: 2023/10/12. 43: 2024/04/15
51: A61K; A61P; C07D
71: Pfizer Inc.
72: ALLEN, Shelley, BLAKE, James Francis, BLANCHE, Sydney Taylor, BOYS, Mark Laurence, CLARK, Wesley Dewitt, COWDREY, Connor James, DAHLKE, Joshua Ryan, DOERNER BARBOUR, Patrick Michael, KELLUM, Alex Andrew, KNAPP, Ellen Margaret, MORENO, David Austin, O'LEARY, Jacob Matthew, REN, Li, WITKOS, Faith Elizabeth, FULTON, Jennifer Lynn
33: US 31: 63/168,456 32: 2021-03-31
54: 3,4-DIHYDRO-2,7-NAPHTHYRIDINE-1,6(2H,7H)-DIONES AS MEK INHIBITORS
00: -
The invention relates to a compound of Formula I or a pharmaceutically acceptable salt thereof, wherein R1, R2, R3 and R4 are as defined herein. The invention further relates to pharmaceutical compositions comprising such compounds and salts, and to methods and uses of such compounds, salts and compositions for the treatment of abnormal cell growth, including cancer, in a subject in need thereof. The invention further relates to solid forms of 8-((2-fluoro-4-(methylthio)phenyl)amino)-2-(2-hydroxyethoxy)-7-methyl-3,4- dihydro-2,7-naphthyridine-1,6(2H,7H)-dione.



(I)



21: 2023/09567. 22: 2023/10/12. 43: 2024/04/12
51: A61K; C07K
71: Shanghai Qilu Pharmaceutical Research and Development Centre Ltd.
72: YANG, Liuqing, LI, Ruimei, GU, Jinming, CHOU, Chuan-Chu
33: CN 31: 202110499247.2 32: 2021-05-08
54: BINDING MOLECULE AGAINST DLL3 AND USE THEREOF
00: -
A binding molecule against DLL3 or an antigen-binding fragment thereof, a derivative containing the binding molecule or the antigen-binding fragment thereof, and a pharmaceutical composition. In addition, the present invention also relates to the related use of the binding molecule or the antigen-binding fragment thereof in the treatment of cancers and in detection and diagnosis.

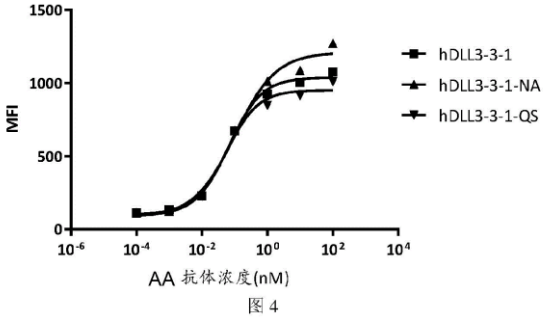
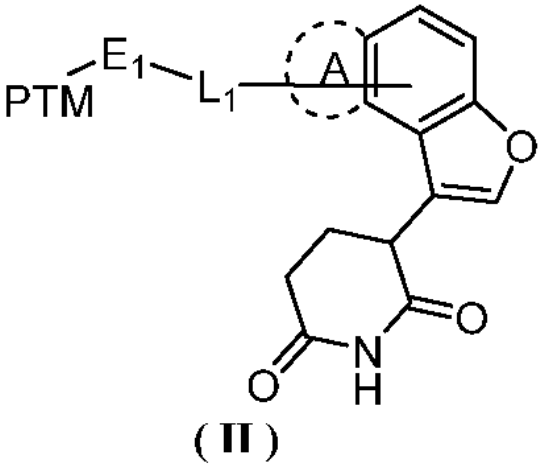


图 4

21: 2023/09588. 22: 2023/10/13. 43: 2024/04/15
51: A61K; C07D; A61P
71: SHANGHAI QILU PHARMACEUTICAL RESEARCH AND DEVELOPMENT CENTRE LTD.
72: LEI, Maoyi, LI, Junmiao, CHEN, Shuhui
33: CN 31: 202110286500.6 32: 2021-03-17
33: CN 31: 202110712765.8 32: 2021-06-25
33: CN 31: 202111314330.4 32: 2021-11-08
33: CN 31: 202210187905.9 32: 2022-02-28
54: FURAN FUSED RING SUBSTITUTED GLUTARIMIDE COMPOUND
00: -
Disclosed are a series of furan fused ring-substituted glutarimide compounds and an application thereof in preparation of a drug for treating related diseases. In particular, disclosed is a compound represented by formula (II) or a pharmaceutically acceptable salt thereof.



(II)

21: 2023/09602. 22: 2023/10/13. 43: 2024/04/23
51: G06N
71: Guangdong JMA Aluminum Profile Factory (Group) Co., Ltd, Foshan JMA Aluminium Industry Co., Ltd
72: HU, Taocheng, CAO, Yongqiang, LIU, Huili, LEI, Yi, YE, Qing
33: CN 31: 202111273714.6 32: 2021-10-29
54: SELF-LEARNING METHOD FOR SEMANTIC FEATURE WITH MAXIMUM GAP, AND COMPUTER DEVICE AND STORAGE MEDIUM
00: -
Disclosed in the present invention is a self-learning method for semantic features with the maximum gap. The method comprises: constructing an encoder, wherein a constraint condition for the encoder is that the distance between codes of two pieces of relevant data is less than the distance between codes of two pieces of irrelevant data; and

driving, by using an unlabeled training set, the encoder to train by means of self-learning. Further disclosed in the present invention are a computer device and a computer-readable storage medium. By using the present invention, there is no need to label training data, and an encoder can be trained by directly using original data. In addition, a gap-based constraint condition is also introduced, such that the effect of a training model in practical applications can be effectively guaranteed.

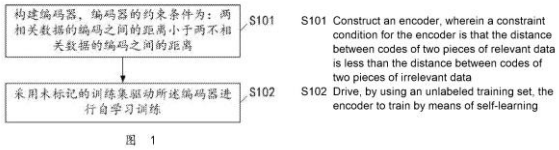
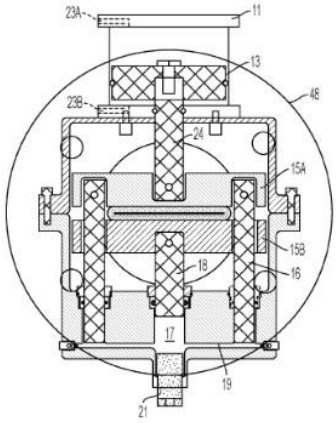


图 1

21: 2023/09635. 22: 2023/10/16. 43: 2024/05/22
51: F16K
71: ECOPINCH PTY LTD
72: MINERS, Adam, MINERS, Allan
33: AU 31: 2021901225 32: 2021-04-26
54: A PINCH VALVE ASSEMBLY
00: -
A pinch valve assembly has opposing pinch members for pinching oppositely against a fluid conduit sleeve and a hydraulic displacement mechanism acting on the opposing pinch members. The hydraulic displacement mechanism a hydraulic displacement push rod coupled to a first pinch member at one end and penetrating a hydraulic reservoir at an opposite end to displace hydraulic fluid therein and a pinch member push rod penetrating the hydraulic reservoir at one end and coupled to a second pinch members at an opposite end. As the first pinch member moves towards the sleeve to pinch against one side of the sleeve, the at least one hydraulic displacement push rod moves into the hydraulic reservoir to displace hydraulic fluid therein to cause the pinch member push rod to be pushed from the hydraulic reservoir under pressure to push against the second pinch member to pinch against an opposite side of the valve.



21: 2023/09638. 22: 2023/10/16. 43: 2024/04/17
51: A61K; A61P; C07D
71: Genfleet Therapeutics (Shanghai) Inc., Zhejiang Genfleet Therapeutics Co., Ltd.
72: JIANG, Tao, ZHOU, Fusheng, ZHANG, Leitao, CAI, Lijian, YAN, Feng, ZHAO, Jichen, LAN, Jiong, LU, Qiang
33: CN 31: 202110285465.6 32: 2021-03-17
54: PYRIMIDINE-FUSED CYCLIC COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF
00: -
A pyrimidine-fused cyclic compound having an inhibitory effect on a KRAS gene mutation, or a pharmaceutically acceptable salt, stereoisomer, solvate or prodrug thereof, a pharmaceutical composition containing the compound, and the use thereof in the preparation of a drug for treating cancer.

21: 2023/09639. 22: 2023/10/16. 43: 2024/04/17
51: A61K; A61P
71: Qilu Pharmaceutical Co., Ltd.
72: ZHENG, Xiaoqing, CHENG, Lizhen, GENG, Weifeng, YANG, Qingmin
33: CN 31: 202110757316.5 32: 2021-07-05
54: PHARMACEUTICAL COMPOSITION, AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF
00: -
A pharmaceutical composition, and a preparation method therefor and an application thereof. The pharmaceutical composition comprises a spiro-aryl phosphorus oxide or a pharmaceutically acceptable salt thereof as an active ingredient and a pharmaceutically acceptable carrier. D90 of the spiro-aryl phosphorus oxide or the pharmaceutically

acceptable salt thereof is in a range of 40.3 μm to 79.6 μm. The pharmaceutical composition has high content uniformity, a high dissolution rate, and high in-vivo bioavailability, and can be used for treating cancer.

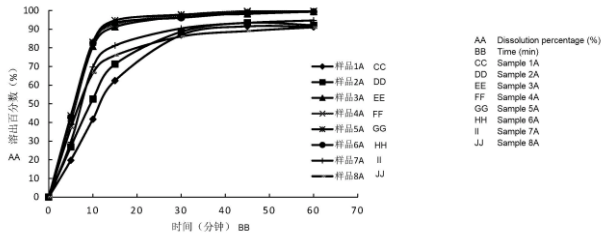
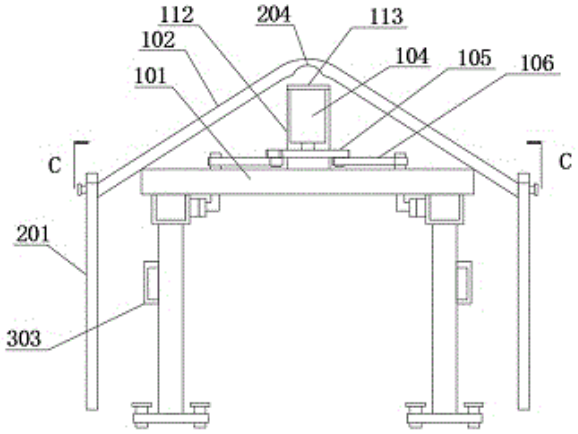


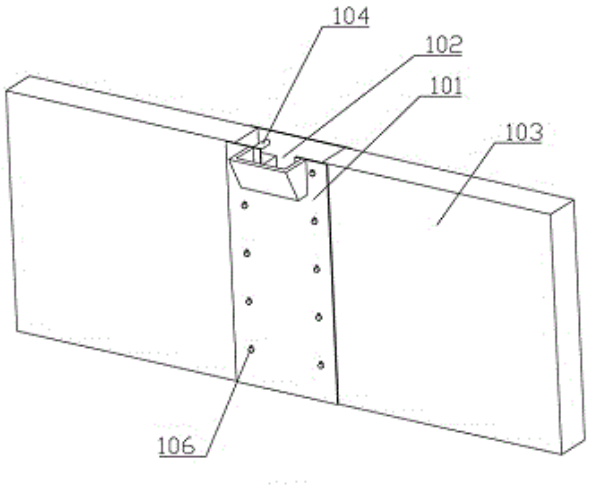
图 2

21: 2023/09673. 22: 2023/10/17. 43: 2024/04/17
51: E04H
71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: HENG-WEI ZHAO, ZHI YANG, RUI JIANG, ZHI-LEI WANG, BO QIAN
33: CN 31: 202310856565.9 32: 2023-07-13
54: DETACHABLY ASSEMBLED FACTORY BUILDING STEEL STRUCTURE
00: -
The present invention relates to the technical field of factory building steel structure, in particular to a detachably assembled factory building steel structure, including a floor slab, a deflector, an installation mechanism, two beams and a plurality of support members. The installation mechanism includes an installation member, a motor, and a fixing block, two connecting blocks, two sliding blocks, two connecting members and a plurality of limiting rods. The support member is provided with grooves and through holes. The beam is placed in the corresponding groove and provided with a plurality of limiting grooves. The floor slab is provided with a chute. The two sliding blocks are slidably connected with the chute. The installation member is fixedly connected with the floor slab. The motor is installed on the installation member. An output terminal of the motor is fixedly connected with the fixing block. The two connecting members are respectively fixedly connected with the corresponding sliding block. One end of the plurality of limiting rods is respectively fixedly connected with the corresponding connecting member, and the other end of each of the limiting rods passes through the corresponding through hole and is inserted into the corresponding limiting groove. The present invention replaces the welding method for connection, and is convenient for recycling.

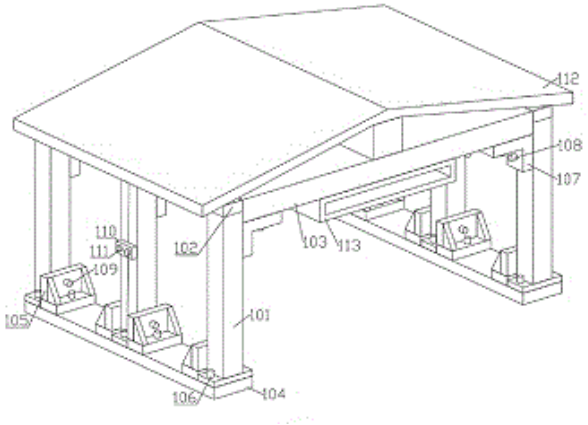


21: 2023/09674. 22: 2023/10/17. 43: 2024/04/17
51: E04G
71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: SHI-MIN WANG, LIN XIAO, LEI-SEN ZHU, JIN-ZE XIANG, ZHEN-LIN ZHANG
33: CN 31: 202310915804.3 32: 2023-07-25
54: STRUCTURAL COLUMN PORT-DETACHABLE DEVICE
00: -
The present invention relates to the technical field of construction equipment, and specifically relates to a structural column port-detachable device. The device includes formworks, a port assembly and a plurality of connecting assemblies. The plurality of connecting assemblies are disposed between two formworks, the port assembly is installed on the formworks and is communicated with a feed port, a plurality of clamping holes are provided on the formworks, and the connecting assemblies are clamped in corresponding clamping holes. Each connecting assembly includes a first rod body, two clamps and two threaded posts, wherein both ends of the first rod body are provided with threaded holes, the threaded posts are installed in corresponding threaded holes, each threaded post is provided with a first sliding groove, and each clamp is slidably installed in a corresponding first sliding groove. When installing the formworks, the formwork on one side is pressed between the clamp and the first rod body, the connected formwork is installed at

on one side of a wall, the formwork on the other side is directly pressed onto the wall, and the clamps fix the formworks on both sides. The installation is simpler, and the work efficiency is improved.

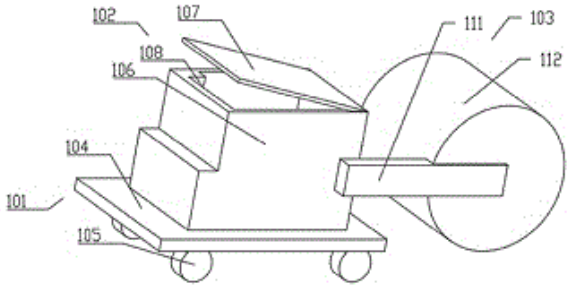


21: 2023/09675. 22: 2023/10/17. 43: 2024/04/17
51: E04B
71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: HENG-WEI ZHAO, RUI JIANG, ZHI-LEI WANG, YI-QING HUANG, XIN GAO
33: CN 31: 202322197555.7 32: 2023-08-16
54: FABRICATED REINFORCED CONCRETE FRAME-BENT STRUCTURE FOR FACTORY BUILDING
00: -
The present invention relates to the technical field of construction of factory building structures, and in particular to a fabricated reinforced concrete frame-bent structure for a factory building, comprising a frame column, a frame beam, a bent frame roof beam, a truss beam, a wiring trough and a reinforcing assembly. The reinforcing assembly comprises a reinforcing baseplate, a support member, a fixing bolt, a reinforcing member, a reinforcing bolt, a connecting bolt, a connector and a limit bolt. In use of the present utility model, the frame column, the frame beam and the bent frame roof beam form the general shape of the factory building; the reinforcing baseplate increases a force-bearing point as a buffer; the fixing bolt is tightened to strengthen the connection between the reinforcing baseplate and the frame column; the support members are fixed to two sides of the frame columns by means of the connecting bolts to strengthen the seismic resistance; and at the same time, the reinforcing member is fixed at the joint between the frame beam and the bent frame roof beam by means of the reinforcing bolt. The limit bolt is tightened to connect and combine the two frame columns by means of the connector, and ordered inner arrangement is achieved by means of the wiring trough to form a relatively complete structure.

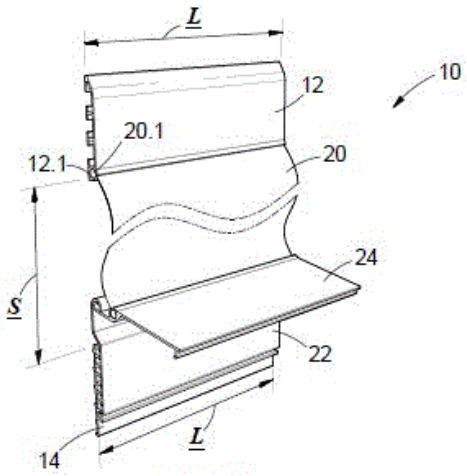


21: 2023/09676. 22: 2023/10/17. 43: 2024/04/17
51: E01C
71: CHINA CONSTRUCTION SECOND ENGINEERING BUREAU LTD.
72: XIAO-DONG FANG, JI-MING ZHANG, BO MA, WEI LONG, XIN JIANG
33: CN 31: 202310963363.4 32: 2023-08-02
54: METHOD AND SYSTEM FOR CONSTRUCTION OF HIGH FILL SUBGRADE IN MOUNTAINOUS AREA
00: -
The present invention relates to the field of building devices, and in particular to a method and system for construction of a high fill subgrade in a mountainous area. A base is supported by a mover, so that the base can move under the support of the mover. Raw materials for paving the subgrade can be poured by a feeding assembly to a place where paving is needed in the following specific way: putting the raw materials in a feeding box; then closing a cover plate for protection; detecting the amount of the raw materials by an alarm; opening a valve when discharging is needed, so that the raw materials enter a discharging frame via the valve and finally flow to the ground; after that, lowering a support bar and a press roller to contact the ground; and continuing to move the mover, so that the press roller compacts the raw materials. Thus, it can be

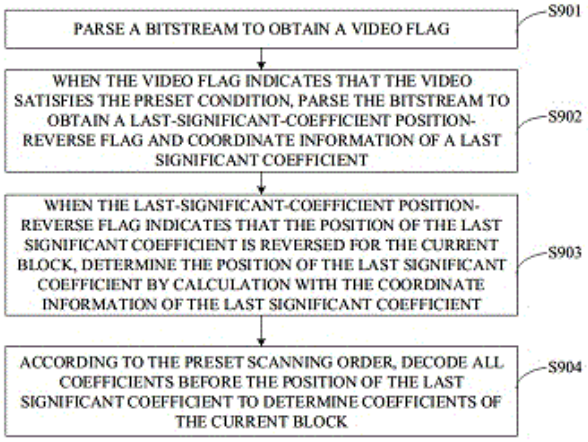
more convenient to pave the subgrade and improves the work efficiency.



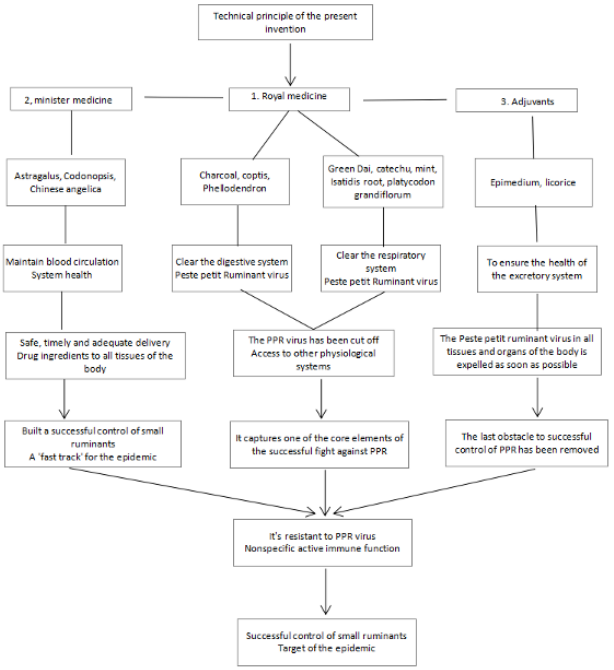
21: 2023/09705. 22: 2023/10/18. 43: 2024/04/18
51: G09F
71: VALUE LOGISTICS (PTY) LTD
72: WILLEM, Jacobus Steyn, COULSON, Richard, MARAIS, Daniel Christoffel
33: ZA 31: 2022/10861 32: 2022-10-03
54: COVER TENSIONING APPARATUS AND COVER MOUNTING SYSTEM FOR A VEHICLE BODY
00: -
This invention relates to a tensioning apparatus 100 for tensioning a cover 20 having a first side thereof secured to a vehicle body 16. The tensioning apparatus 100 comprises a first elongated member 22 for catching onto and engaging a jut 14.1 provided on the vehicle body 16, and a channel 26. The tensioning apparatus 100 further comprises a second elongated member 24 for receiving and retaining an opposite second side of the cover 20, and for catching onto and engaging the first elongated member 22. Operatively, the second elongated member 24 is receivable in the channel 26 and tensions the cover 20 between the first side secured to the vehicle body 16 and the second side retained by the second elongated member 24.



21: 2023/09724. 22: 2023/10/18. 43: 2024/04/18
51: H04N
71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
72: FAN WANG, ZHIHUANG XIE
54: COEFFICIENT ENCODING/DECODING METHOD, ENCODER, DECODER, AND COMPUTER STORAGE MEDIUM
00: -
Disclosed in embodiments of the present application are a coefficient encoding/decoding method, an encoder, a decoder, and a computer storage medium. The method comprises: analyzing a code stream to obtain video identifier information; when the video identifier information indicates that a video satisfies a preset condition, analyzing the code stream to obtain last non-zero coefficient position flip identifier information and coordinate information of the last non-zero coefficient; when the last non-zero coefficient position flip identifier information indicates performing last non-zero coefficient position flip, calculating the coordinate information of the last non-zero coefficient to determine the position of the last non-zero coefficient; and decoding all coefficients before the position of the last non-zero coefficient according to a preset scanning sequence to determine the coefficient of the current block. In this way, in a high-bit-width, high-code-rate, high-quality, or lossless video encoding/decoding scenario, the throughput of coefficient encoding and the encoding/decoding speed are improved, and the compression efficiency is also improved.

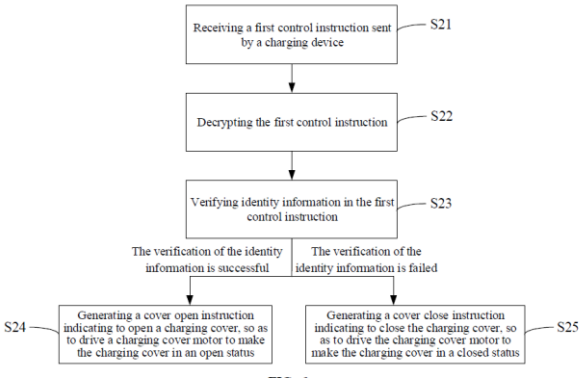


21: 2023/09753 22: 2023-10-19 43: 2024-04-22
51: A23K; A61K; A61P
71: HUNAN GREAT WORLD VENTURE BIOTECHNOLOGY CO., LTD
72: Wen XIAO, Wei LIU, Lianxiang XU, Hao LIU, Mingan TAN, Xiaobin XIAO, Ming XIAO
33: CN 31: 2023110257266 32: 2023-08-15
54: **THE INVENTION RELATES TO A CHINESE MEDICINE COMPOSITION AND APPLICATION FOR PREVENTION AND TREATMENT OF PESTE PETIT RUMINANT AND ANIMAL VIRAL DISEASES**
57: The invention relates to the field of animal medicine, and discloses a Chinese medicine composition and application for preventing and treating Peste des petits ruminants and animal viral diseases. The Chinese medicine composition comprises the following components: Qingdai, yellow lotus, yellow cypress, charcoal, mint, platycodon grandiflorus, catechu, isatis root, Astragalus, Codonopsis, Angelica, Herba officinalis and licorice; The Chinese medicine composition is applied to viral diseases of livestock, poultry and aquatic animals. The traditional Chinese medicine composition of the invention can not only prevent and treat Peste petit ruminants, but also reduce the incidence of viral diseases of livestock, poultry and aquatic animals. In addition, the raw materials of the traditional Chinese medicine composition do not contain any antibiotics, prohibited ingredients and animal origin ingredients, realizing the goal of green, safe and efficient. It provides a reliable technical support for accelerating the development of non-resistant culture and green food in our country.

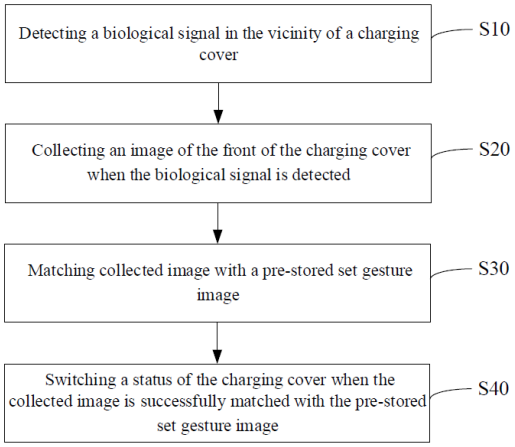


21: 2023/09769. 22: 2023/10/19. 43: 2024/05/08
51: B60L; B62D; E05F
71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD.
72: WANG, Chao
33: CN 31: 202110451756.8 32: 2021-04-26
54: CHARGING DEVICE, CHARGING PORT COVER CONTROL DEVICE, CHARGING SYSTEM, AND RELATED METHOD
00: -
A charging device, a charging cover control device, a charging system and a related method are provided. When receiving a startup instruction, the charging device (100) generates and encrypts a first control instruction, and sends encrypted first control instruction to the charging cover control device (200); the charging cover control device (200) receives and decrypts the first control instruction, and verifies identity information in the first control instruction; and when the verification of the identity information is successful, the charging cover is driven to be opened. Through the encrypted communication between the charging device (100) and the charging cover control device (200), the charging cover can be automatically controlled to be opened, which saves the redundant action of manually operating the charging cover and is more convenient and faster. Before controlling the charging cover to be opened, the charging cover

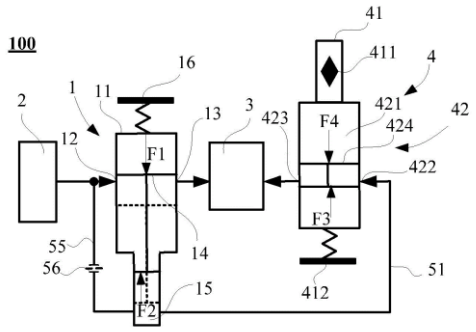
control device (200) verifies identity of the charging device, and the charging cover will not be opened unless the identity verification is successful, thereby avoiding the potential safety hazards caused by charging the electric vehicle ad arbitrium by any charging device.



21: 2023/09770. 22: 2023/10/19. 43: 2024/05/08
51: B60L; B62D
71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD.
72: WANG, Chao
33: CN 31: 202110452772.9 32: 2021-04-26
54: CHARGING COVER CONTROL METHOD AND DEVICE FOR ELECTRIC VEHICLE, AND ELECTRIC VEHICLE
00: -
The present disclosure discloses a charging cover control method and device for an electric vehicle, and an electric vehicle. Whether there is a user approaching a charging cover is determined by detecting a biological signal; and after the biological signal is detected, an image of the front of the charging cover is collected and matched with a pre-stored set gesture image. When the gesture matching is successful, it means that the user currently performs a specific gesture action controlling the charging cover, and at this time, the charging cover is automatically controlled to be opened or closed, without the complicated steps such as manually operating the charging cover by the user, and the charging convenience is improved.



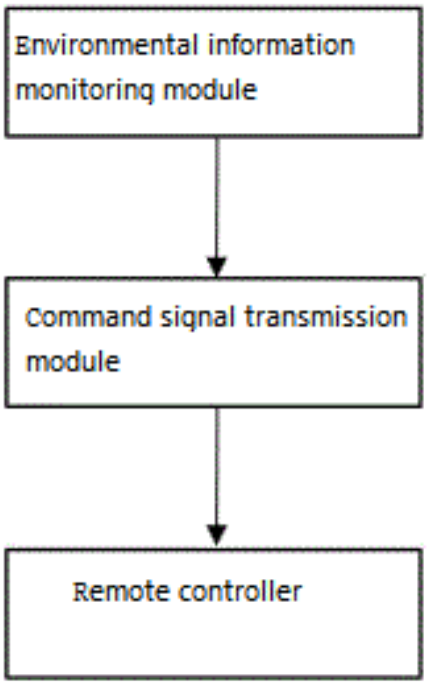
21: 2023/09802. 22: 2023/10/20. 43: 2024/04/23
51: F16K
71: Shanghai Nuclear Engineering Research & Design Institute Co., Ltd.
72: LIU, Zhan, CAO, Kemei, YANG, Bo, GUO, Ning, FU, Tingzao, ZHANG, Kun
33: CN 31: 202110302346.7 32: 2021-03-22
54: PRESSURE RELIEF VALVE SYSTEM AND PRESSURE RELIEF METHOD
00: -
A pressure relief valve system and a pressure relief method. The system comprises a main hydraulic valve (1) and a trigger unit (4), wherein the opening and closing of the main hydraulic valve (1) is controlled by the trigger unit (4), such that a liquid in a high-pressure container (2) flows into a low-pressure container (3). By means of the pressure relief valve system and the pressure relief method, a power supply is not needed for driving, the pressure relief valve system is in an initial closed state by means of hydraulic pressure, and is passively opened after signal triggering. Therefore, the design is simplified, the safety and economical efficiency of a reactor are greatly improved, and quick pressure relief of a high-pressure container can be realized, so as to meet a long-term emergency reactor core cooling function.



21: 2023/09825. 22: 2023/10/23. 43: 2024/04/23
51: G01D
71: Zhengzhou University of Technology
72: Guoli KONG, Yu SU, Hongqi XI, Xiangwei WU, Meng ZHANG, Meng ZHANG
33: CN 31: CN2023204136594 32: 2023-03-07

54: INFORMATION CONTROL SYSTEM

00: -
The disclosure provides an information control system, including an environmental information monitoring module, a command signal transmission module and a remote controller, wherein the environmental information monitoring module includes an environmental detection sensor and an acquisition controller, and the acquisition controller edits the monitored abnormal environmental data into a warning command signal for output; and wherein the command signal transmission module includes a command amplifier noise reducer, interference suppression protector and compensation stabilizer. According to the disclosure, through setting the command signal transmission module to condition the warning command signal output from the environmental information monitoring module, the interference on the warning command signal from the external environmental factors is effectively suppressed, and a good protection effect on the transmission system is obtained, so that the warning command transmission is more accurate and stable, the information control system to monitor the abnormal changes in environmental data is more accurate and reliable, which greatly enhance the stability of the information control system.

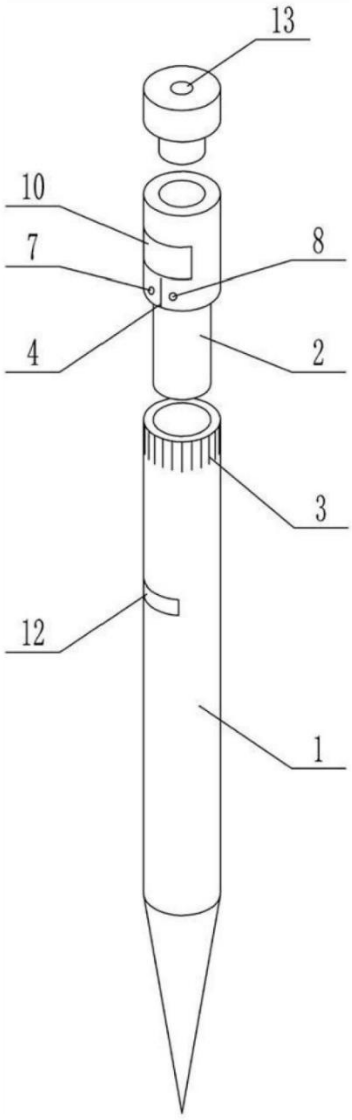


21: 2023/09846 22: 2023-10-23 43: 2024-04-23
51: A01K; A61M; F21L
71: JILIN AGRICULTURAL UNIVERSITY
72: HOU, Wenfeng, GAO, Qiang, LIU, Shuxia, LI, Cuilan, WANG, Yin, LI, Xiaoyu, FENG, Jiancheng, WANG, Bin, LI, Jiangtao

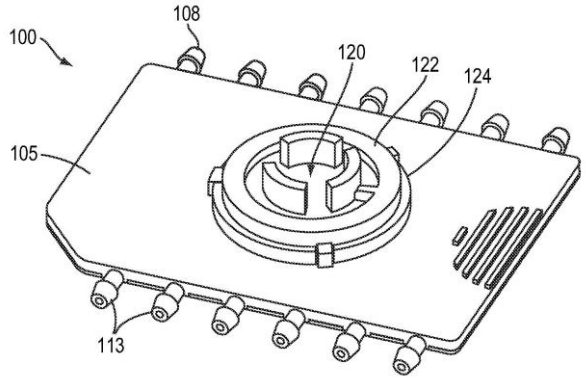
54: **PORTABLE FIELD AREA DELINEATION METHOD AND DELINEATION ASSISTIVE DEVICE THEREOF**

57: The present invention discloses a portable field area delineation method and a delineation assistive device thereof, which relates to the technical field of experimental field area delineation devices. The portable field area delineation assistive device comprises a fixed part and a rotating part, wherein one end of the fixed part is used to insert into soil, and the other end is rotatably connected to the rotating part; scale marks and a pointer for measuring a rotation angle of the rotating part are respectively provided on mutually connected connecting ends of the fixed part and the rotating part; a laser emitter for emitting light in a horizontal radial direction is fixed on the rotating part. The present invention uses the laser emitter to emit visible laser light as the boundary of the delineated area, and leverages the characteristics of the laser light path being straighter and free from angle deviations, thereby avoiding the time-consuming and labor-intensive aspects and the error-prone technical issues associated with manual tape-leading. Meanwhile, the arrangement of the rotating part and

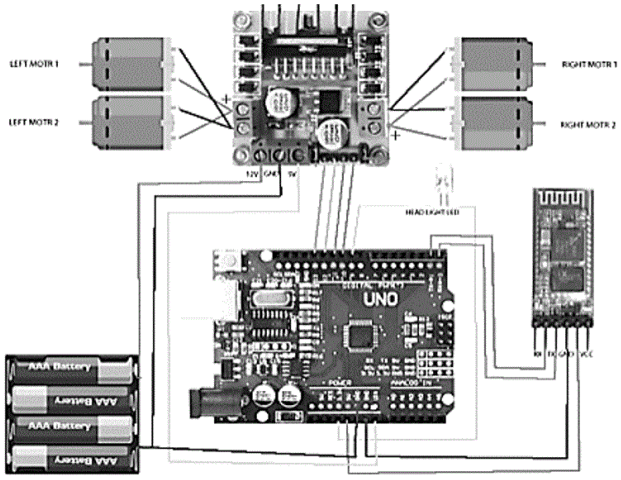
the fixed part with the pointer and the scale marks allows for precise control of the angle between laser lights emitted by the laser emitters on adjacent assistive devices, providing a simpler method.



21: 2023/09857. 22: 2023/10/23. 43: 2024/04/23
51: A61F; F16K; F16L
71: SUNFLOWER THERAPEUTICS, PBC
72: WEISER, David, GOLDBLATT, Alex, KAHATT, Espir, REISMAN, Ben
33: US 31: 63/167,206 32: 2021-03-29
54: SELECTABLE FLUID COUPLER
00: -
A rotary valve may be operated by automated means and permits aseptic coupling of a source fluid conduit to any of a few or many possible outlet conduits. The valve assembly may be provided with numerous connectors for output coupling but it is not necessary to connect tubing to all of them.



21: 2023/09895. 22: 2023/10/24. 43: 2024/06/11
51: A61G
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: JALNEKAR, Rajesh M., KULKARNI, Mukund M., THOPATE, Kaushalya, SAWANT, Sahil, SAWANT, Yashraj, SAWANT, Avadhut, SAWARKAR, Sanchit, SAWANT, Atharvsinh
54: A BLINK CONTROLLED WHEELCHAIR SYSTEM
00: -
The present invention related a Blink Controlled wheelchair system. The Blink Controlled Wheelchair is an assistive technology designed to empower physically challenged individuals. Using non-invasive eye-blink detection technology (EEG), the wheelchair allows users to control movements through simple blinking actions. The system's user-cantered design and real-world testing demonstrate its potential to enhance user mobility, independence, and overall quality of life. This cost-effective and accessible solution holds promise in fostering inclusivity and societal integration for people with physical disabilities.

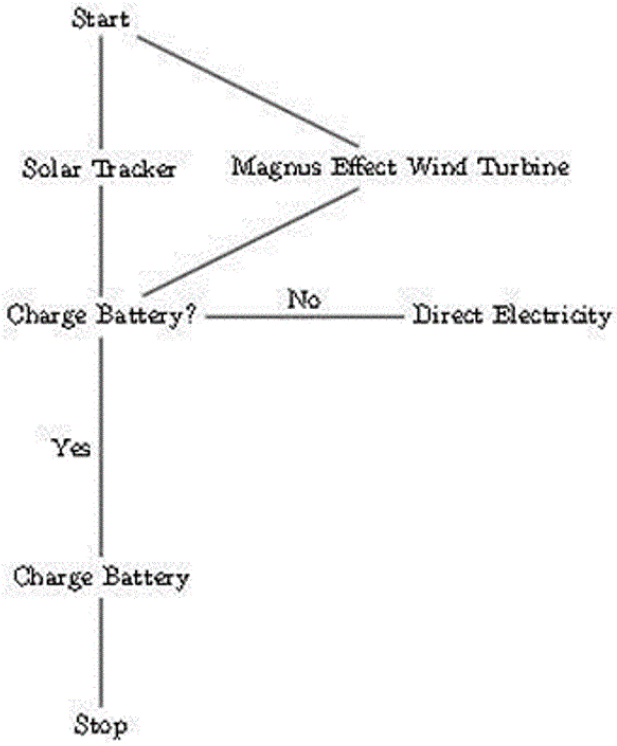


21: 2023/09896. 22: 2023/10/24. 43: 2024/05/23
51: A01D
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: SULLA, Kartik Harish, SRIVASTAVA, Harshit Santosh, SONAVANE, Harsh Sanjay, UTAGE, Arya Shashank, RASAL, Mukta Vinayak, VYAWAHARE, Om Pankaj, KULKARNI, Nishant Shashikant

54: AN INTEGRATED WIND AND SOLAR ENERGY HARVESTING EQUIPMENT

00: -

The present invention related to an integrated wind and solar energy harvesting equipment. This is a hybrid energy generation system is proposed that integrates a Magnus effect vertical axis wind turbine (VAWT) with a solar tracker system. The system is designed to provide consistent power production throughout the day and improve grid stabilization. The system was tested in a variety of conditions and the results showed that it can significantly outperform standalone wind or solar systems. The system has the potential to significantly reduce dependence on fossil fuels and promote sustainability.

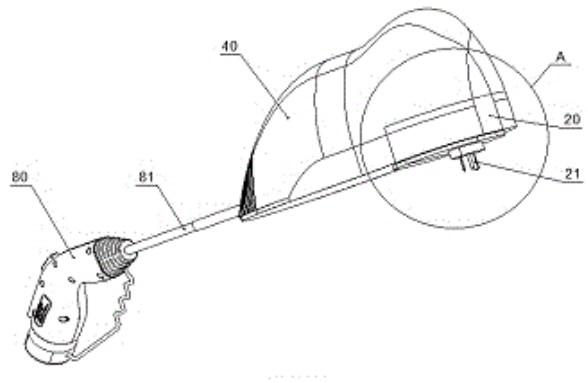


21: 2023/09920. 22: 2023/10/24. 43: 2024/04/25
51: H01R
71: CHANGCHUN JETTY AUTOMOTIVE TECHNOLOGY CO., LTD.
72: CHAO WANG
33: CN 31: 202110453314.7 32: 2021-04-26

54: CHARGING CONNECTOR AND CHARGING DEVICE

00: -

The present invention provides a charging connector and a charging device. The charging connector comprises a control box and a power plug. The control box is electrically connected to a charging gun. The control box is provided with a three-phase terminal. The power plug is provided with a connecting structure. The connecting structure detachably connects the power plug and the control box together, such that the power plug is electrically connected to the three-phase terminal. By means of the present invention, the technical problem of poor adaptability of the charging device is solved.

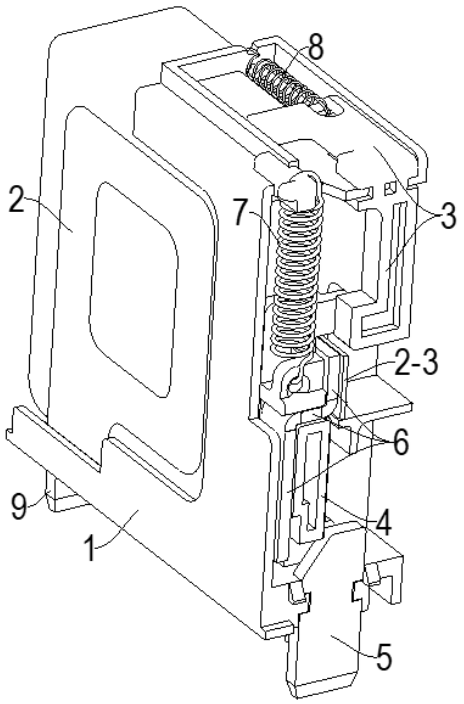


21: 2023/09935. 22: 2023/10/24. 43: 2024/04/25
51: H01H; H02H
71: CHINT LOW VOLTAGE ELECTRICAL TECHNOLOGY CO., LTD.
72: YANG, Fan, DENG, Yingchang, WANG, Xuli, GUO, Shaojun
33: CN 31: 202220338762.2 32: 2022-02-18

54: THERMAL DISCONNECTION AND INDICATION MECHANISM AND SURGE PROTECTION DEVICE

00: -

The present invention relates to the field of low-voltage electric appliances, in particular to a thermal disconnection and indication mechanism which is applied to a surge protection device. The thermal disconnection and indication mechanism includes: a support frame, an indication element and a push rod which are slidably disposed on the support frame respectively, a conductive sheet which is fixedly disposed on the push rod and acts synchronously with the push rod, a push rod driving member, and an indication element driving member; the conductive sheet is fixed to a second electrode of a protection element of the surge protection device by means of welding; and the indication element includes an indication portion and an indication element fitting portion which are connected in a bending manner. When the indication element is located at a first position, the indication element fitting portion is in limiting fit with the push rod. After the conductive sheet and the second electrode are disengaged from each other, the push rod driving member drives the push rod to slide to release the limiting fit from the indication element fitting portion. The indication element driving member drives the indication element to slide to a second position. The thermal disconnection and indication mechanism is simple in structure, compact in layout and reliable in action. The present invention further relates to a small-sized surge protection device including the thermal disconnection and indication mechanism.



21: 2023/09945. 22: 2023/10/25. 43: 2024/04/25
51: G09G; H01J
71: CREATIVE DIGITAL DISPLAYS (PTY) LTD.
72: THEUNIS, Elcardo Randall
33: ZA 31: 2022/11605 32: 2022-10-25

54: DISPLAY SCREEN ARRANGEMENT

00: -

According to a first aspect of the invention there is provided a display screen arrangement comprising at least a pair of first and second display screens both sharing a common illumination arrangement. The display screen arrangement may comprise the first display screen and the second display screen spaced from the first display screen, each of the first and second display screens having a front, display face and a rear/back face; and the illumination arrangement fitted, at least in part, in a space defined between the rear faces of the first and second display screens, the illumination arrangement being common to and serving both first and second display screens for selectively or simultaneously providing illumination to the first and second display screens. The first and second display screens may be arranged back-to-back with the display faces facing in opposite directions.

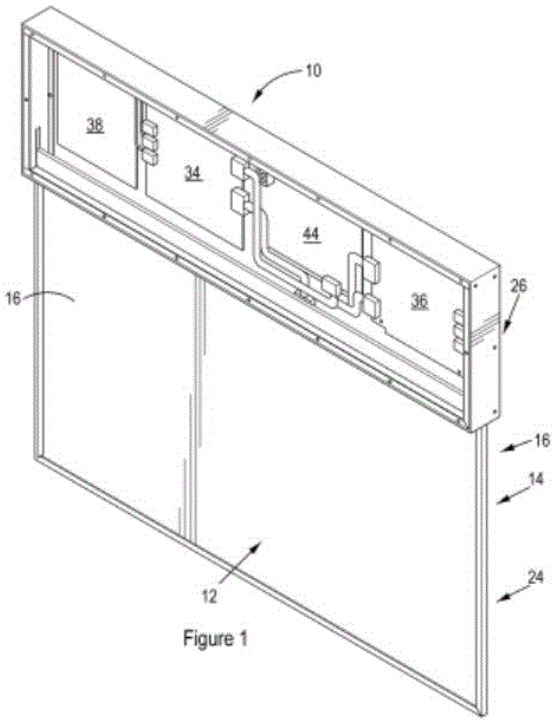
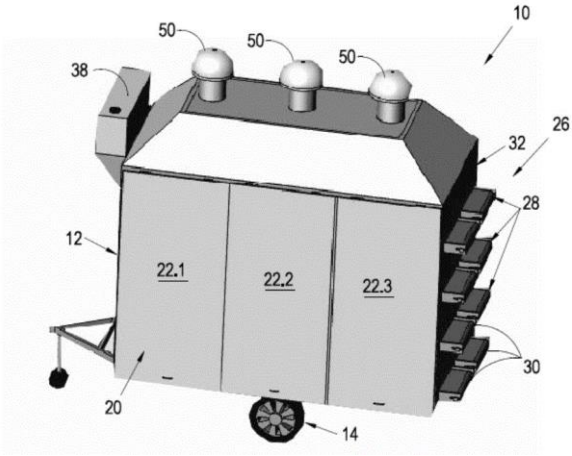
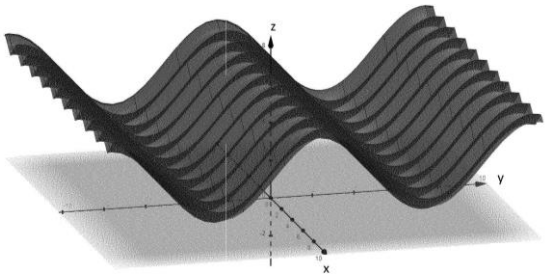


Figure 1

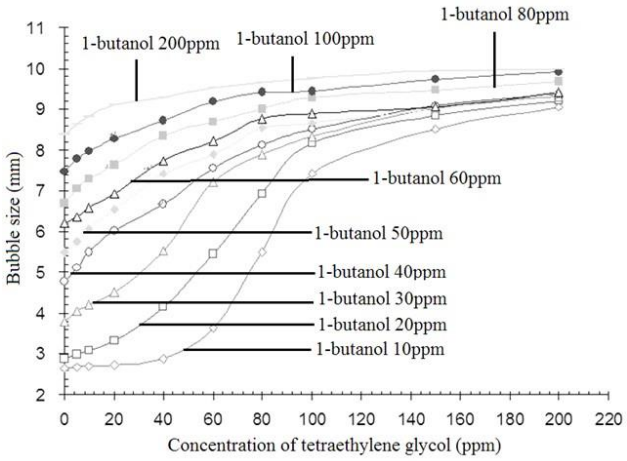
21: 2023/09987. 22: 2023/10/26. 43: 2024/04/25
51: A01K; B60P; B62D
71: SG ENGINEERING SOLUTIONS (PTY) LTD.
72: ROBINSON, Gavin Stuart, KHAN, Ilyas Hassan, CASTLE, Shaun Peter
33: ZA 31: 2022/11710 32: 2022-10-27
54: CHICKEN COOP TRAILER ARRANGEMENT
00: -
A chicken coop trailer arrangement for housing poultry is provided, the trailer arrangement comprising a trailer body on a wheeled base. The trailer body comprises or is fitted with a plurality of cages for housing poultry, including egg laying hens, the plurality of cages being accommodated within the trailer body; a temperature regulating system for regulating the temperature within the trailer body; and a cleaning system for manually collecting waste products produced by the poultry, and removing the waste products from the trailer body. In an embodiment, the plurality of cages comprises a first set of cages arranged on one side of the trailer body proximate a first side wall, and a second set of cages arranged on the other side of the trailer body proximate a second side wall, with a gap between the sets of cages allowing air to circulate within and through the trailer body.



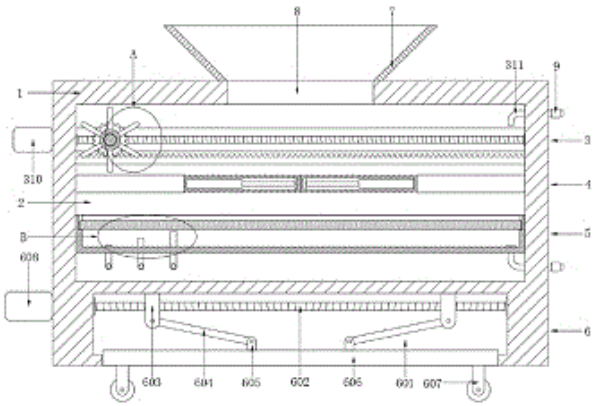
21: 2023/10003. 22: 2023/10/26. 43: 2024/04/30
51: B28B; B29C; C04B; H01M
71: DynElectro ApS
72: HØJGAARD JENSEN, Søren, LYCK SMITHSHUYSEN, Anne, LUND FRANDSEN, Henrik, SUDIREDDY, Bhaskar Reddy, EGSGAARD PEDERSEN, Thomas
33: EP(DK) 31: 21170635.3 32: 2021-04-27
54: CORRUGATED GREEN SHEETS FOR THE PREPARATION OF LARGE-SIZED CERAMIC SHEETS AND RELATED METHODS AND USES
00: -
This invention relates a non-sintered green sheet or tape comprising a corrugated surface having alternating crests and troughs arranged along both a first direction of the surface and a second direction of the surface, the second direction forming an angle of between 60° to 120° to the first direction, wherein the corrugation periods and/or corrugation amplitudes in the first direction differ from those in the second direction. The invention enables preparation of a reliable, large-sized ceramic sheet material, e.g. as a ceramic electrolyte layer for use in solid oxide cells, as a ceramic sheet for filter or membrane applications, or as sintering substrate or setter. In addition, sintered ceramic sheets and electrolytes, methods of preparation, and solid oxide cells (SOCs) making use of the non- sintered green sheet or tape are described.



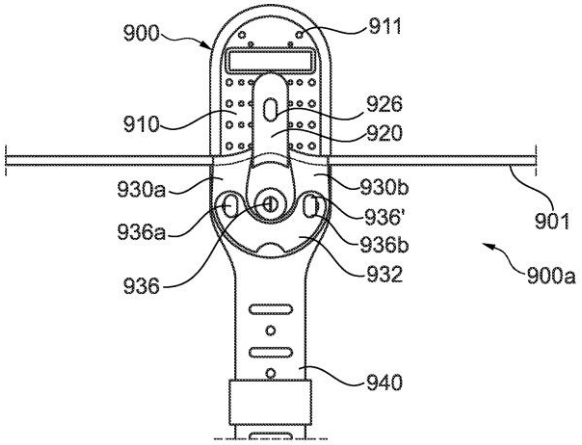
21: 2023/10031. 22: 2023/10/27. 43: 2024/04/30
51: B03D
71: CHINALCO RESEARCH INSTITUTE OF SCIENCE AND TECHNOLOGY CO., LTD, MINERAL CHINALCO PERU S.A.
72: ZHANG, Xudong, DAI, Fangrong, WU, Haijun, YANG, Dong, YU, Xiaoguang, LIANG, Jia, LI, Tengfei, XIONG, Renyan, SU, Yaohua, MO, Yongda, WANG, Miaomiao
54: A METHOD FOR COMBINING AND CONFIGURING NEW FOAMING AGENTS WITH HIGH SELECTIVITY AND HIGH FOAMING PROPERTIES
00: -
The present disclosure specifically relates to a combination method of a foaming agent-surfactant composition with desirable selectivity and foaming properties. Wherein 1-butanol ($C_4H_{10}O$) is a main flotation foaming agent, which decides bubble sizes in a collecting area; and tetraethylene glycol ($C_8H_{18}O_5$) is an auxiliary foaming agent, which affects a rising velocity of the bubbles in the collecting area and a foaming capability in a selected area. Set concentrations of the two components are respectively 60ppm for the 1-butanol and 120ppm for the tetraethylene glycol. An addition sequence is the 1-butanol followed by the tetraethylene glycol. The dual advantages of the selectivity and foaming properties of the foaming agent-surfactant composition in the present disclosure are verified through a series of tests, and desirable yields can be obtained in practice.



21: 2023/10041. 22: 2023/10/27. 43: 2024/04/30
51: G01N
71: XIAONING ZHENG
72: XIAONING ZHENG
33: CN 31: 2023110429968 32: 2023-08-18
54: DETECTION DEVICE AND DETECTION METHOD FOR HERBICIDE CONTENT IN GRAIN
00: -
A detection device and a detection method for herbicide content in grain, comprising a detector body, an interior of the detector body being arranged with a working chamber, an interior of the working chamber being respectively arranged with a mixing, a discharge and precipitation mechanism, the interior of the detector body being arranged with a regulating mechanism, and inner walls of both sides of the working chamber are opened with grooves. Arranging the mixing mechanism allows the grain and the treatment liquid fully contact, releasing herbicide residue inside to a greater extent, while the discharge mechanism controls the flow state of the treatment liquid, to improve contact with the grain, and the precipitation mechanism separates and precipitates the grain and the treatment liquid, the three are coordinated, thereby integrating and quickly implementing steps before grain detection, and improving work efficiency.



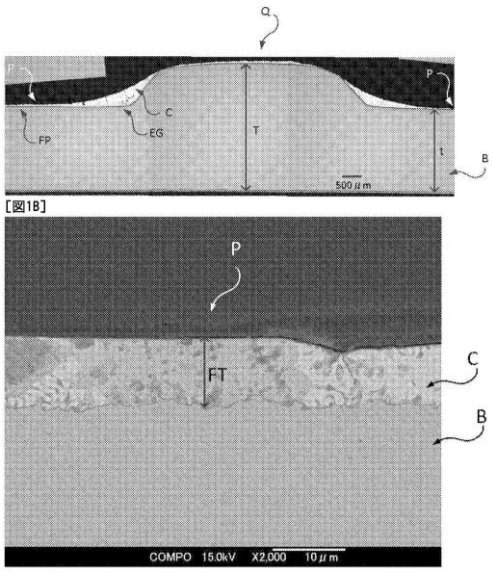
21: 2023/10042. 22: 2023/10/27. 43: 2024/05/08
51: A61M
71: JAVELO HEALTH LIMITED
72: BARNETT-VANES, Dr. Ashton, KITCHING, Alan
33: GB 31: 2106271.6 32: 2021-04-30
54: APPARATUS AND METHOD FOR SECUREMENT OF A FLEXIBLE CONDUIT
00: -
Disclosed is a securement device (100) for securement of a flexible conduit (101a, 101b), a medical system comprising a securement device and a conduit secured thereto; and a method of securing a flexible conduit. A securement device comprises a support portion and elastically extendable first (132a) and second straps (120) coupled thereto. In use, the straps are attached to a flexible conduit, which is urged into a curved or convoluted pathway. The straps may elastically extend when tension is applied to the conduit and the securement device isolates the conduit extending to one side of the securement device from tension applied to the conduit on the other side of the securement device.

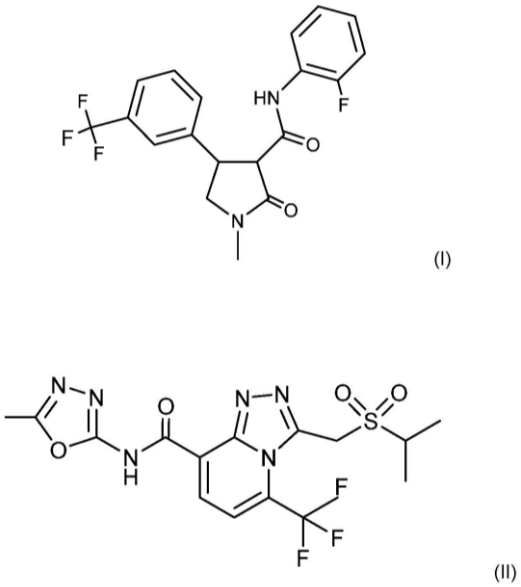


21: 2023/10061. 22: 2023/10/27. 43: 2024/04/30
51: C22C; C23C
71: NIPPON STEEL CORPORATION
72: SAITO, Mamoru, GOTO, Yasuto
33: JP 31: 2021-064721 32: 2021-04-06
54: ZN-AL-MG PLATED CHECKERED STEEL PLATE
00: -
Provided is a Zn-Al-Mg alloy coated checkered steel sheet having on the sheet surface thereof convex part and flat part, wherein: the coating layer has a predetermined chemical composition, and when observing a cross section of cutting edge orthogonal to a longitudinal direction of the convex part and taken along a sheet thickness direction at a central part in the longitudinal direction of the convex part, a layer thickness ratio of the coating layer of the flat part on left and right of the convex part (layer thickness of left coating layer/layer thickness of right coating layer) is from 0.2 to 5.0, and a convex height T-t, where T is a sheet thickness of the substrate checkered steel sheet at the convex part and t is a sheet thickness of the substrate checkered steel sheet at the flat part, and a gap height x between a stationary surface and a sheet surface of the coated checkered steel sheet opposite to the stationary surface in a case in which the coated checkered steel sheet is placed in a stationary position satisfy the following Formulas 1 and 2 below.

Formula 1: $x/(T - t) \leq 1.5$

Formula 2: $0.5 < T - t \leq t$





21: 2023/10064. 22: 2023/10/27. 43: 2024/04/30
51: A01N; A01P
71: Syngenta Crop Protection AG
72: WAILES, Jeffrey Steven, HOLLOWAY, Thomas Edward, WATKINS, Melanie Jayne
33: EP(CH) 31: 21173152.6 32: 2021-05-10

54: HERBICIDAL COMPOSITIONS

00: -

The present invention relates to compositions comprising as component (A) a compound of formula (I) or an agrochemically acceptable salt thereof (I) and, as component (B), a compound of formula (II) or an agrochemically acceptable salt thereof (II) and to their use in controlling plants or inhibiting plant growth.

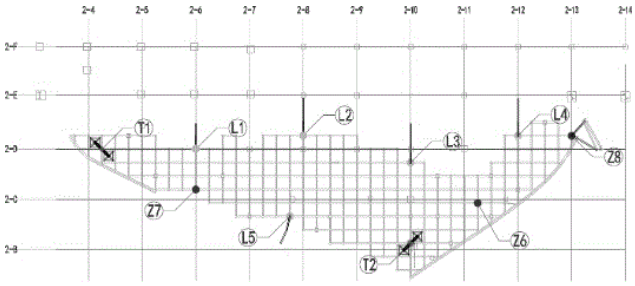
21: 2023/10083. 22: 2023/10/30. 43: 2024/04/30
51: E04G
71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
72: SUN, Chune, SUI, Haitao, LI, Sai, MENG, Lijuan, LI, Hongyang, LIU, Chenfei, YANG, Kun, YUAN, Hanchao
33: CN 31: 202310950646.5 32: 2023-07-31

54: METHOD FOR LAYER-BY-LAYER CUMULATIVE AND SYNCHRONOUS LIFTING CONSTRUCTION OF WAVY SPECIAL-SHAPED STEEL STRUCTURE CANOPY

00: -

The present disclosure discloses a method for layer-by-layer cumulative and synchronous lifting construction of a wavy special-shaped steel structure canopy. In the present disclosure, layered assembly and layer-by-layer hydraulic cumulative lifting are adopted: through structural analysis, a third structural floor, a fourth structural floor, and a fifth structural floor have large-area floor slabs, which can be used as assembly sites for steel structures, welding of the steel structures is completed by layer-by-layer upward lifting, and with this solution, a lifting height of the steel structures can be reduced from 36.62 m to 14.4 m. Assembly, welding, painting and other main operations of the steel structures are performed on the floors to minimize the amount of high-altitude work; hydraulic synchronous lifting equipment and facilities are small in size, low in weight, high in mobility, and

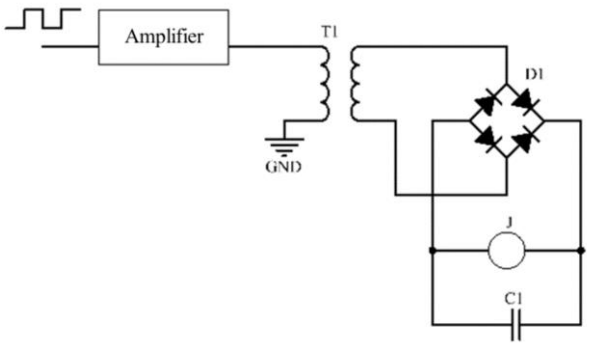
convenient to install and remove; and temporary facilities such as lifting brackets and platforms can use existing structures such as steel supporting columns, so that the quantity of the temporary facilities is reduced, and high economic benefits are achieved.



21: 2023/10084. 22: 2023/10/30. 43: 2024/04/30
51: G01N
71: THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU
72: SUN, Chune, CHAI, Da, LI, Peng, CHENG, Junxin, YUE, Xuesheng, XU, Haiwen, SUN, Bo, CHANG, Yuehui
33: CN 31: 202310950816.X 32: 2023-07-31
54: LARGE-SPAN CONCRETE PRESTRESS STABILITY TESTING SYSTEM AND DISCRIMINATION METHOD
00: -
The present disclosure discloses a large-span concrete prestress stability testing system and discrimination method. According to the present disclosure, an experiment module in a simulation experiment module analyzes a data file acquired from a simulation experiment device and data calculated by a calculation formula based on given parameters in real time, dynamically generates corresponding cloud image, and integrates a calculation function of an original simulation system, and after clicking on calculation, a result file generated by the calculation is read in real time through a scheduling program, so that the testing accuracy of a whole test is improved. A module in a data de-duplication module can test generated duplicate data, and the duplicate data is de-duplicated by the data de-duplication module, so that when processing video data acquired and generated by a front-end device, the duplicate data in data can be removed first, thereby reducing the amount of data to be processed, improving the efficiency of data processing, improving the operation efficiency of the whole test, and improving the ease of use of the whole system.

21: 2023/10134. 22: 2023/10/31. 43: 2024/05/02
51: H02M
71: NANJING VOCATIONAL INSTITUTE OF RAILWAY TECHNOLOGY
72: YANG, Jin
33: CN 31: 202311073422.7 32: 2023-08-24
54: RESONANCE-BASED INHERENTLY SAFE DRIVE CIRCUIT
00: -
The present invention discloses a resonance-based inherently safe drive circuit, including a first resonant tank and a second resonant tank, the first resonant tank including a first capacitor C1 and a primary coil of a transformer T1, one end of the first capacitor C1 being connected to one end of the primary coil, the second resonant tank including a secondary coil of the transformer T1, a second capacitor C2, and a

load Z1, two ends of the second capacitor C2 being respectively connected to two ends of the secondary coil, and two ends of the load Z1 being respectively connected to two ends of the second capacitor C2. According to the resonance-based inherently safe drive circuit in the present invention, the transformer is used for electrical isolation, which has a strong anti-interference capability and is suitable for electrified track sections, a current of a driving waveform loop is sampled in a resonant driving manner, and real-time detection of the load can be realized according to waveform phase information of the driving voltage and the current.

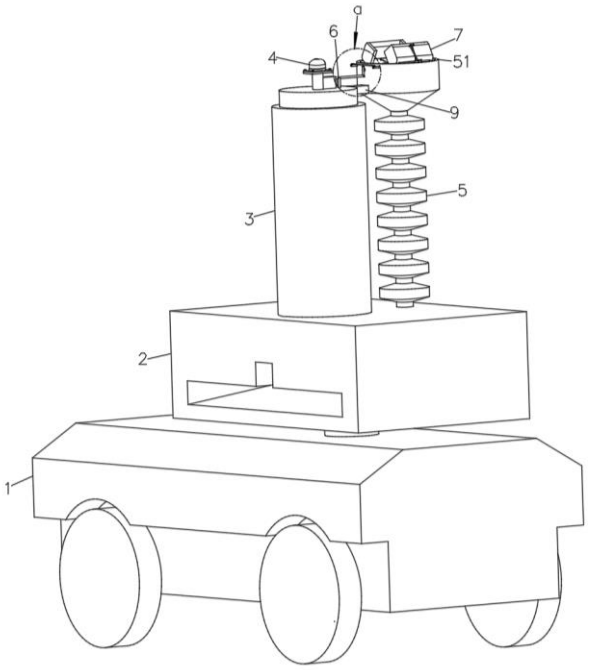


21: 2023/10135. 22: 2023/10/31. 43: 2024/05/02
51: A01D
71: Forestry Reseach Institute Of Longquan County
72: JIN, Linfang, JI, Jingyong, CHEN, Huanwei, XIAO, Jijun, WU, Guoliang, SHEN, Bin, YE, Linyan, LAI, Chao, LIU, Juetian, HUANG, Siqi

54: SCHIMA SUPERBA SEEDS COLLECTION DEVICE

00: -

The present application relates to the field of collecting schism seeds, and specifically relates to a collecting device for schima superba seeds. A schima superba seeds collection device, including a trolley body, and a screening device is provided above the trolley body, a hydraulic telescopic rod and a telescopic conduit are provided above the screening device, a camera device is installed above the hydraulic telescopic rod, a shell breaking device is provided above the telescopic conduit, and a cutting device is provided above the shell breaking device, the cutting device can drive the shell breaking device to break the shell of the schima superba, which makes it easier to separate the shell and seed of the schima superba, a driving device is provided between the cutting device and the camera device, a telescopic end of the hydraulic telescopic rod and an upper end of the telescopic conduit are fixedly connected through a collection block, the camera device can change the direction through a control platform, the positions of the cutting device and the schima superba are transmitted to a screen through the camera device, the driving device drives the cutting device to cut off the schima superba, the cut schima superba fruits enter the screening device, and the shells and the seeds of the schima superba are collected separately.



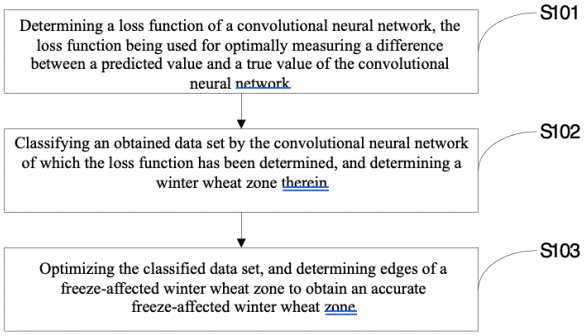
21: 2023/10139. 22: 2023/10/31. 43: 2024/05/02
51: G06T
71: Shandong Agricultural University
72: Zhang Jinghan, Yi Liran, Yang Xiaoxia, Zhang Ning
33: CN 31: 2023113038311 32: 2023-10-10

54: METHOD FOR EXTRACTING FREEZE-AFFECTED AREA OF WINTER WHEAT

00: -

The application discloses a method for extracting a freeze-affected area of winter wheat, and relates to the technical field of crop planting. The method comprises the following steps: determining a loss function of a convolutional neural network, the loss function being used for optimally measuring a difference between a predicted value and a true value of the convolutional neural network; classifying an obtained data set by the convolutional neural

network of which the loss function has been determined, and determining a winter wheat zone therein; and optimizing the classified data set, and determining edges of a freeze-affected winter wheat zone to obtain an accurate freeze-affected winter wheat zone. In the method, the loss function for optimizing the neural network is determined first, then the freeze-affected winter wheat zone is identified and classified by the neural network optimized by the loss function, and then identification and classification results are optimized, so that refined extraction of the freeze-affected winter wheat zone can be realized to accurately determine the freeze-affected area.

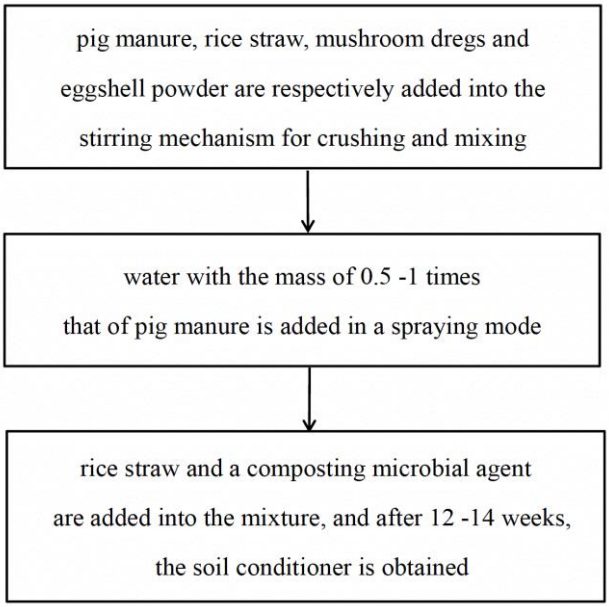


21: 2023/10186. 22: 2023/11/01. 43: 2024/05/10
51: C05F
71: Jiaxing Vocational & Technical College
72: Xufeng Zhang

54: EQUIPMENT AND METHOD FOR PRODUCING A SOIL CONDITIONER BY UTILIZING AGRICULTURAL WASTES

00: -

The invention relates to the technical field of soil conditioners, and discloses equipment and a method for producing a soil conditioner by using agricultural wastes. The method comprises the following steps: stirring: respectively adding 4 -5 parts by weight of pig manure, 3 -5 parts by weight of rice straw, 1 part by weight of mushroom residues and 1 part by weight of eggshell powder into a stirring mechanism, and crushing and mixing; humidifying: when the stirring operation is started, adding water accounting for 0.5 -1 times of the mass of the pig manure in a spraying mode at the same time to obtain a mixture; and composting: adding 1 part by weight of rice straw and 0.7 -0.8 part by weight of a composting microbial agent into the mixture, and after 12 -14 weeks, obtaining the soil conditioner. The agricultural waste is converted into the valuable soil conditioner, so that comprehensive utilization of resources is realized, waste of waste and environmental pollution are reduced, meanwhile, the production method is simple, and the cost is low.

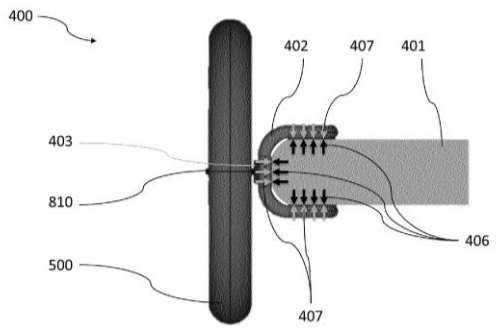


21: 2023/10201. 22: 2023/11/01. 43: 2024/05/09
51: B60K; B62K
71: PAYARD, Benoit
72: PAYARD, Benoit
33: FR 31: FR2104460 32: 2021-04-29
33: FR 31: FR2104595 32: 2021-04-30

54: FOLDABLE INFLATABLE VEHICLE

00: -

The present invention is a folding inflatable vehicle (1000) of which only the wheel-supporting brackets (400) and the wheel (500) are not inflatable. Said wheel-supporting brackets are held in place by the inflation pressure of certain parts of the vehicle. The motors (11) and the energy store (515, 516, 600) are at the wheels (500). The controls (850) are removable. The invention is particularly intended for the manufacture of novel folding inflatable vehicles that have a low weight, low energy consumption, take up little storage space, and at the same time have a low production cost, while making repairs easier and increasing design options.

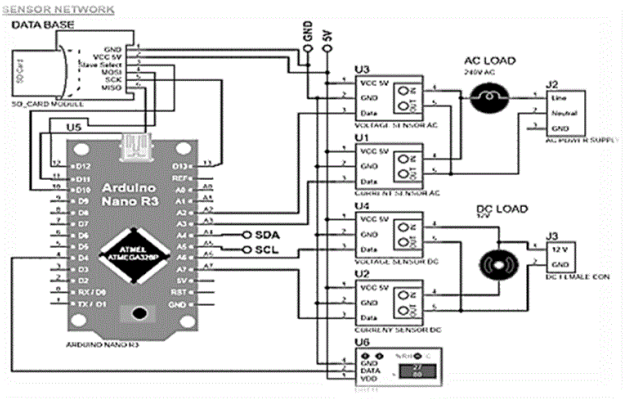


21: 2023/10234. 22: 2023/11/02. 43: 2024/05/09
51: G05B
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: PURANDARE, Radhika, CHITRE, Abhijit, MORE, Rohit Chandrakant, HIWARALE, Yashodip Jivan, KENDRE, Sneha, DESHMUKH, Minal, HABBU, Shraddha, J., Ketan Raut

54: A HEALTH LOGGER AND MONITORING SYSTEM FOR ELECTRONIC APPLIANCES

00: -

The present invention is related to a health logger and monitoring system for electronic appliances. According to the invention, the system is designed to measure and log the voltage and current consumption of appliances and monitor their health in real-time. The system consists of a hardware unit that is connected to the electronic appliance and a Hardware platform that provides a user-friendly interface to monitor the appliance's health. The hardware unit measures the voltage and current of the appliance and transmits the data to the software platform through a wired connection. The Hardware platform provides a real-time view of the appliance's voltage and current consumption and alerts the user if any abnormal behavior is detected. The system can be used to monitor the health of electronic appliances in residential and commercial settings.

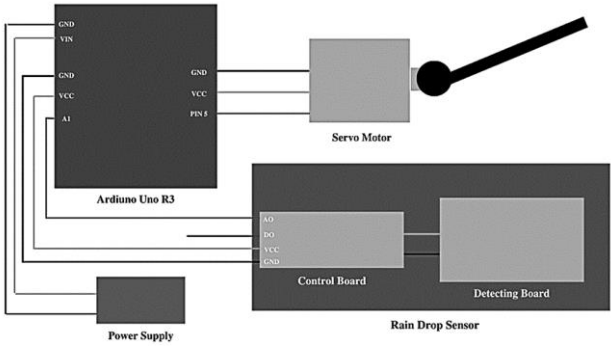


21: 2023/10235. 22: 2023/11/02. 43: 2024/05/09
51: G06F
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: MIRAJKAR, Riddhi Rajendra, SHINDE, Gitanjali Rahul, SHELKE, Priya Makarand, MANDALIK, Akshay Haribhau, DESHPANDE, Payal Shrikrushna, CHAVAN, Mukta Madhukar, MENGAL, Sanket Namdeo

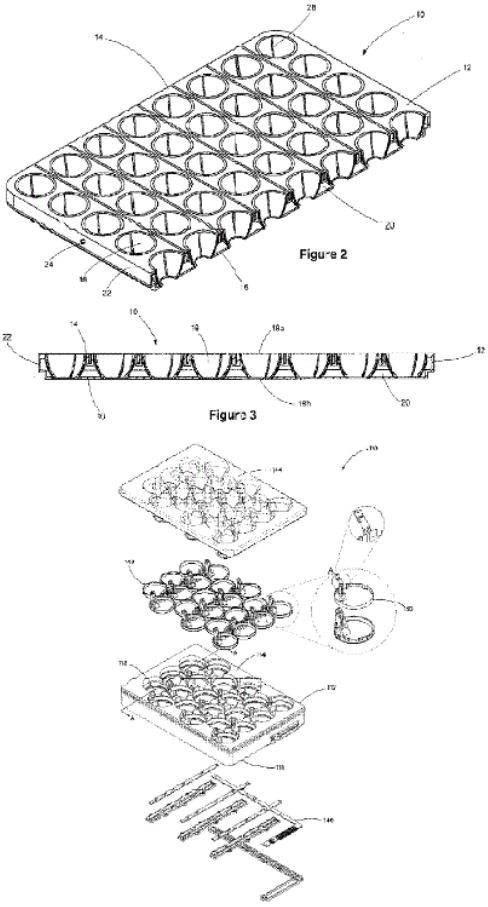
54: AN ARTIFICIAL INTELLIGENCE BASED SMART HELMET

00: -

The present invention is related to an artificial intelligence based smart helmet. According to the invention, despite wearing helmets, bikers may still find themselves in dangerous situations due to severe rain. A helmet that provides the best way to address the current problem. The goal of our research is to create a low-cost intelligent helmet that can recognize rain and activate the wipers as necessary to avoid accidents. This intelligent helmet's primary goal is to keep riders safe. Advanced features like automated or manual speed controllers and rain droplet recognition are used to put this into practice. Although they only make up a small portion of your helmet, helmet wipers have a significant impact on your driving and general safety. As soon as the sensor detects rain, it will rapidly and efficiently get rid of it. Thus, the motorcycle visor's windscreen wiper is useful. The wiper is easy to attach and remove.

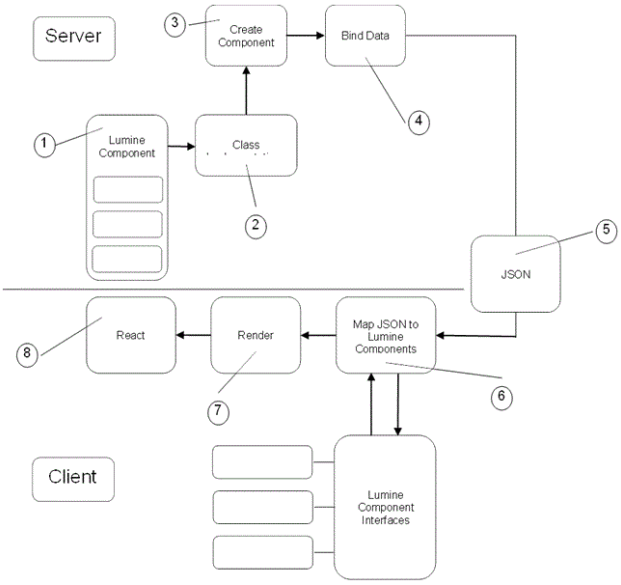


21: 2023/10253. 22: 2023/11/02. 43: 2024/05/16
51: A01K; G01N
71: OVO INCUBATORS (PTY) LTD
72: FARSCHI, Amir, BOOTSMA, Rean
33: ZA 31: 2021/03448 32: 2021-05-21
54: INCUBATOR TRAY AND A METHOD OF INCUBATING
00: -
An incubator tray (10) includes a body (12) that defines: (i) a first surface (14) and a second surface (16) that defines a sealed void (20) therebetween; (ii) an inlet (24) that, in use, permits inflow of fluid into the void defined between the first and second surfaces of the body; (iii) an outlet (26) that, in use, permits outflow of fluid from the void defined between the first and second surfaces of the body; (iv) a plurality of bores (18) that extend between the first and second surfaces, through the void defined between the first and second surfaces, wherein: each bore is open at both axial ends, and a first axial end (18a) of the bore proximal the first surface is larger in cross-sectional area than the cross-sectional area of a second axial end (18b) of the bore proximal the second surface; and (v) a temperature sensor (30) associated with each bore. In use, an object to be incubated that is: undersized relative to the cross-sectional area of the first axial end of a bore; and oversized relative to the cross-sectional area of the second axial end of the bore, may be supported on the body, within a bore, with the open axial ends of the bore permitting ventilation through the bore, past the object.



21: 2023/10261. 22: 2023/11/03. 43: 2024/05/09
51: G06F
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: SAHU, Mayank Rajesh, KOTHADI, Siddhesh Sanjay, KAWADE, Shantanu Dilipkumar, KALPANDE, Tanmayee, WAWAGE, Pawan Subhash, BHIMANPALLEWAR, Ratnamala Nivrutti
54: A LUMINE SERVER DRIVEN USER INTERFACE LIBRARY
00: -
The present invention related to a lumine server driven user interface library. The Lumine UI is a server-driven UI framework/Library that makes it easy for developers to create and iterate on applications quickly, providing a better way to build server-driven UI applications that are easy to use while supporting multiple platforms. Layout updates are done on the fly, and updating the app on either the app store or play store is not required to see the dynamically updated components. In addition, it provides better performance and scalability since the

server can add multiple pages on the fly without affecting the application size. The UI always stays up-to-date and consistent across all devices, ensuring users a more consistent experience. Lumine's Library3 allows applications to be developed on multiple platforms, with their layouts dynamically updated from the server, without redeploying web applications or launching new updates on Google Play or the App Store. It can test different theories for improving the product by running A/B experiments.

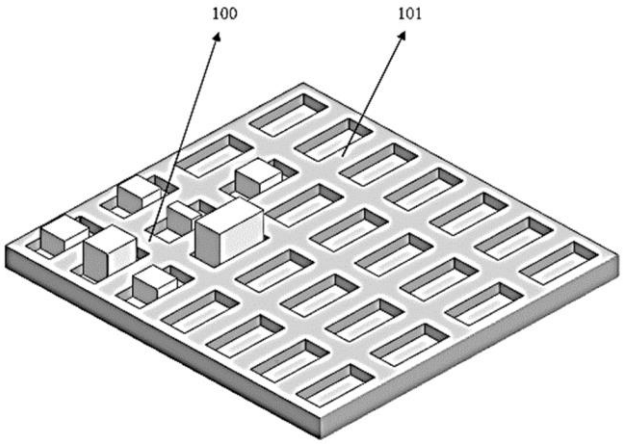


21: 2023/10262. 22: 2023/11/03. 43: 2024/05/09
51: G06F
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: KULKARNI, Atul, BAGEWADI, Atharva, KATRE, Yash, SHIRKE, Samruddhi, MAHALE, Tanmay, PAGRUT, Ashwini, SRIVASTAVA, Pratik, DHUMAL, Amol

54: A THERMAL MANAGEMENT SYSTEM FOR SWITCH MODE POWER SUPPLY BOARD

00: -

The present invention is related to a thermal management system for switch mode power supply board. According to the invention, the continuous miniaturization of the integrated circuit chips (heat sources) and the increase in the sleekness (design) of the electronic components have led to the rise of enormous volumetric heat generation in the electronic components. The present invention aims to seek the optimal arrangement (enhancing the cooling) of the IC chips oriented at various positions on an SMPS board (Switch mode power supply) cooled using air under various heat transfer modes. The invention focuses on seven protruding IC chips of asymmetric size positioned on the board and supplied with non-uniform heat fluxes. Each configuration (arrangement of the IC chips) is identified by a non-dimensional geometric distance parameter (λ), which depends strongly on the IC chip's position on the board and their size.

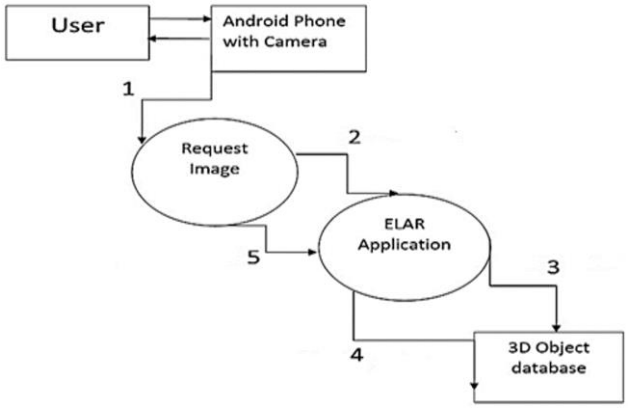


21: 2023/10263. 22: 2023/11/03. 43: 2024/05/09
51: G09B
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: RATHI, Snehal, KURHADE, Anirudha, LONARI, Gaurav, SONAVANE, Jidnyasa, BUTALA, Om, MEHTA, Pradnya

54: AN EDUCATIONAL AUGMENTED REALITY APPLICATION FOR ENHANCING CLASSROOM LEARNING

00: -

The present invention is related to an educational augmented reality application for enhancing classroom learning. The ELAR application utilizes augmented reality technology to scan images and create 3D models, providing students with an interactive and immersive learning experience. Additionally, video representations of images are displayed to further enhance understanding and engagement. The ELAR application was successfully developed using the unity engine and AR Foundation and is compatible with Android and iOS devices. Thorough documentation was provided to facilitate adoption and maintenance of the application. The ELAR project has the potential to revolutionize classroom learning by bridging the gap between theory and practical application.

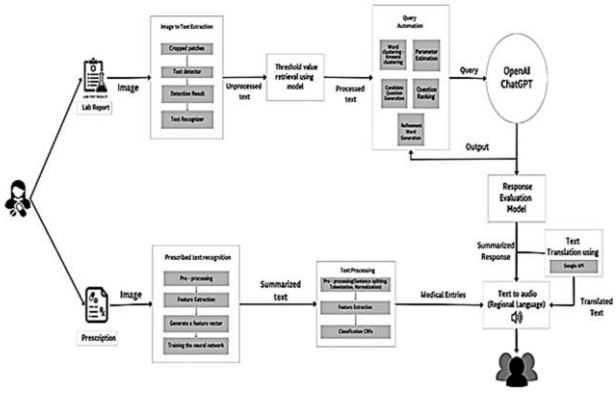


21: 2023/10264. 22: 2023/11/03. 43: 2024/05/09
51: A61B
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: DESHPANDE, Leena Amit, BEWOOR, Laxmi A., REGE, Pallavi R., SANTOSHI, S., WANI, Vaishnavi Vipin, PANCHARIYA, Anjali Dhanraj, PATIL, Sakshi Sushil

54: AN ARTIFICIAL INTELLIGENCE BASED HEALTH AWARENESS SYSTEM FOR WOMEN

00: -

The present invention is related to an artificial intelligence based health awareness system for women. According to the invention, a model that will extract values and parameters from pathology reports to generate queries. The answers generated from the fired query through OpenAI are then summarized, translated, and turned into a text-to-speech file for the end user. This technology can also be used to extract key information from prescriptions, such as the name, dosage, frequency and duration of the medication, and translate it into speech for easier audience comprehension.



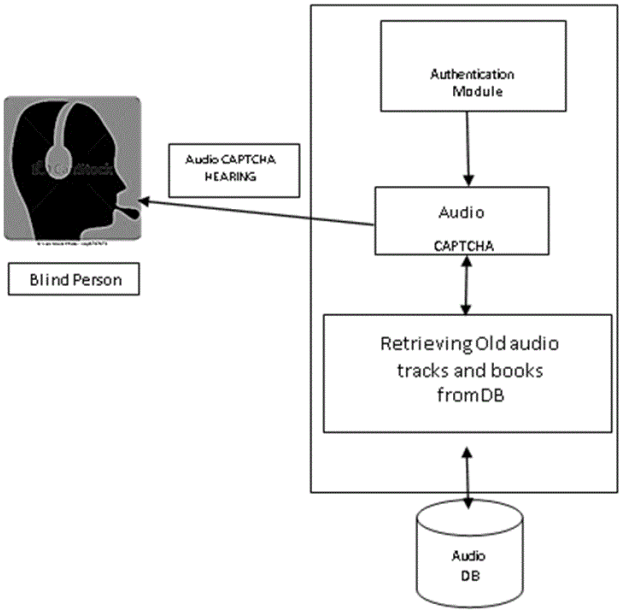
21: 2023/10265. 22: 2023/11/03. 43: 2024/05/09
51: H04L

71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: BHANDARI, Mahesh, FUTANE, Pravin, KODMELWAR, Manohar, PATHAK, Kishor, BHOITE, Sonali, MOKASHI, Mandar, WANKHADE, Shalini, SHEWALE, Chaitali, SHELKE, Ganesh, PATIL, Swati, BIRARE, Komal

54: AN AUDIO CAPTCHA SYSTEM FOR VISUALLY IMPAIRED PEOPLE

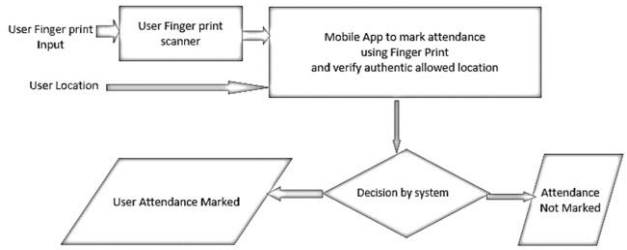
00: -

The present invention is related to an audio captcha system for visually impaired people. According to the invention, current CAPTCHAs rely on superior human perception, leading to CAPTCHAs that are predominately visual and, therefore, unsolvable by people with vision impairments. Audio CAPTCHAs that rely instead on human audio perception were introduced as a non-visual alternative but are much more difficult for web users to solve. The technique for obfuscation is chosen such that it is difficult for automated agents to recover the original text, but humans should be able to do so easily. Visually, this most often means that graphic text is displayed with distorted characters. In audio CAPTCHAs, this often means text is synthesized and mixed in with background noise, such as music or unidentifiable chatter. Audio playback is linear. A solver of an audio CAPTCHA first plays the CAPTCHA and then quickly focuses on the answer box to provide their answer.

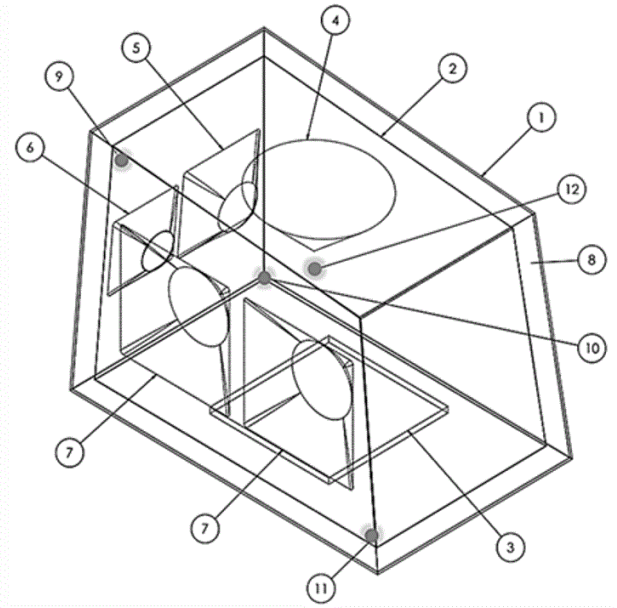


21: 2023/10266. 22: 2023/11/03. 43: 2024/05/09

51: G06K
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: INGLE, Yashwant Sudhakar, MAHALLE, Parikshit Narendra, SHINDE, Gitanjali Rahul
54: A LOCATION BASED ATTENDANCE MARKING SYSTEM WITH FINGERPRINT AUTHENTICATION
00: -
The present invention is related to a location based attendance marking system with fingerprint authentication. According to the invention, a novel method for marking user attendance for location-based systems is invented. A finger uses a finger print scanner and marks attendance through a mobile app using finger print recognition algorithms; this biometric authentication is stronger than user face recognition, which helps mark the genuine attendance of the same user from the authenticated place(s). A system can mark user attendance in the dark too. There is a limitation to the ability of Face Recognition algorithms to distinguish between a user's photo and the real user while marking attendance in location-based attendance systems. The attendance can be marked in the dark using a mobile fingerprint scanner. This is advantageous as face recognition algorithms need illumination on the user's face; sufficient light is a must to illuminate the user's face while capturing attendance.

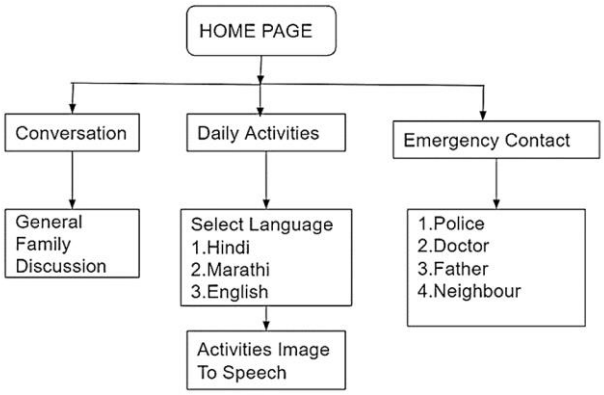


21: 2023/10267. 22: 2023/11/03. 43: 2024/05/09
51: G06F
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: JAWALE, Pradeep, MACHE, Ashok R., GORE, Vedant Dattatray, MAHALLE, Parikshit
54: A PORTABLE DEVICE FOR VIRTUAL ACOUSTIC TESTING OF MATERIALS
00: -
The present invention is related to a portable device for virtual acoustic testing of materials. Acoustics play an important role in various working fields such as automobiles, aviation, HVAC systems, generators, etc. Various sound absorbing materials are incorporated into these devices. In reverberation rooms, one can test aircraft components, vehicle front hoods, and other large heavy equipment for both high and low intensity noise level fatigue testing. The sound absorbing properties of the material, such as the sound absorption coefficient and reverberation time (RT-60). These chambers are designed to create a diffuse sound field with a uniform distribution of acoustic energy and a random direction of sound incidence over a short time period. The speaker emits an acoustic power of 0.03 W, and then the cabin measures the impulse response.

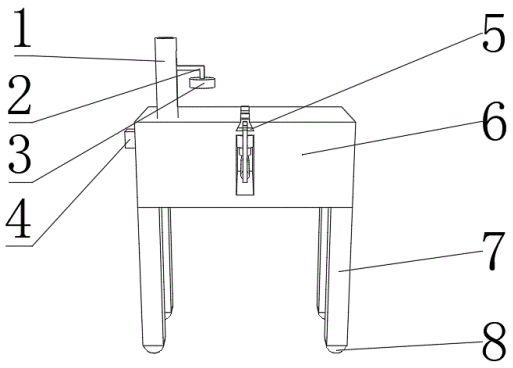


21: 2023/10268. 22: 2023/11/03. 43: 2024/05/09
51: A61K
71: VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY
72: GHULE, Gauri Vaijukumar, HABBU, Shraddha Kiran, MALI, Parikshit Surendra, HAJARE, Gaurav Pavan, JADHAV, Mrunali Suresh
54: A NURTURANCE APPLICATION FOR PERSONS WITH DISABILITIES
00: -
The present invention is related to a nurturance application for persons with disabilities. According to the invention, the backend of the app uses Java for the development and working of the app. This app is about converting text to speech with each particular text attached to a particular image, which helps the PWD (Person with Disability) who is not able to

speak to interact about daily activities with other people. Along with this, the app provides a function for emergency contact, which redirects the dialer to make a call to a specific person of the person's choice. The app provides the option to have a general conversation by forming sentences using words. These functions work on the concept of text-to-speech conversion. This app is very useful, as it makes it way too easy to get on with the normal activities of people who are not able to speak.



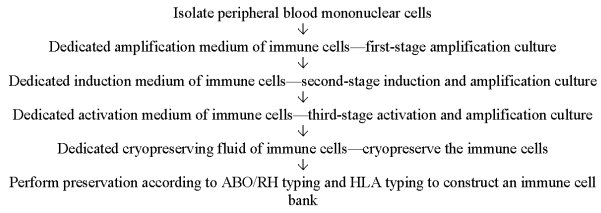
21: 2023/10269. 22: 2023/11/03. 43: 2024/05/09
51: G09B
71: Xinyu University
72: Jiang Hanbing, Cai Lin
33: CN 31: 202311318519X 32: 2023-10-12
54: TEACHING DISPLAY DEVICE FOR HUMAN ANATOMY AND PHYSIOLOGY MODEL
00: -
The present invention discloses a teaching display device for a human anatomy and physiology model, the device includes a display table, a middle of a left side of a top of the display table is fixedly connected to a first supporting column, and a top of a middle of a left side of the display table is fixedly connected to a servo motor. The present invention discloses a teaching display device for a human anatomy and physiology model, the device includes a display table, a middle of a left side of a top of the display table is fixedly connected to a first supporting column, and a top of a middle of a left side of the display table is fixedly connected to a servo motor.



21: 2023/10280. 22: 2023/11/03. 43: 2024/05/09
51: A61K; C07K; A61P
71: RIGSHOSPITALET, UNIVERSITY OF COPENHAGEN
72: NIELSEN, Christoffer, BEHRENDT, Niels, ENGELHOLM, Lars Henning
33: EP 31: 21182271.3 32: 2021-06-29
54: ANTIBODY-DRUG CONJUGATES COMPRISING HUMANIZED ANTIBODIES TARGETING UROKINASE TYPE PLASMINOGEN ACTIVATOR RECEPTOR ASSOCIATED PROTEIN (UPARAP)
00: -
The present invention relates to humanized antibodies and molecular conjugates targeting Urokinase type plasminogen activator receptor associated protein (uPARAP), in particular antibody-drug conjugates (ADCs) comprising humanized antibodies directed against uPARAP and their use in delivery of active agents to cells and tissues expressing uPARAP. The invention further relates to the use of said ADCs in the treatment of diseases involving uPARAP expressing cells, such as certain cancers.

21: 2023/10303. 22: 2023/11/06. 43: 2024/05/16
51: A01N; C12N; C40B
71: QINGDAO RUISIDE BIOLOGICAL TECHNOLOGY CO., LTD.
72: ZHANG, Bingqiang, CHEN, Mengmeng
54: IN-VITRO CULTURE, INDUCTION, ACTIVATION AND CRYOPRESERVATION METHOD AND CELL BANK ESTABLISHMENT FOR IMMUNE CELLS
00: -
The present invention discloses an in-vitro culture, induction, activation and cryopreservation method and cell bank establishment for immune cells. The method includes the follows: using a dedicated

amplification medium of immune cells to perform first-stage amplification culture on mononuclear cells to obtain preliminarily amplified immune cells; using a dedicated induction medium of immune cells to perform second-stage induction and amplification culture on the preliminarily amplified immune cells to obtain induced immune cells; using a dedicated activation medium of immune cells to perform third-stage activation and amplification culture on the induced immune cells to obtain a large number of immune cells with activation functions; using a dedicated cryopreserving fluid of immune cells to cryopreserve the immune cells to obtain cryopreserved immune cells; and performing preservation according to ABO/RH typing and HLA typing; and establishing an information file of immune cells for retrieval to construct an immune cell bank.



21: 2023/10304. 22: 2023/11/06. 43: 2024/05/16
51: A01N; A61K; C12N
71: QINGDAO RUISIDE BIOLOGICAL TECHNOLOGY CO., LTD.
72: CHEN, Mengmeng, ZHANG, Bingqiang

54: METHOD FOR SCREENING, ACTIVATING, AMPLIFYING AND CRYOPRESERVING MESENCHYMAL STEM CELLS IN VITRO AND ESTABLISHING CELL BANK OF MESENCHYMAL STEM CELLS

00: -

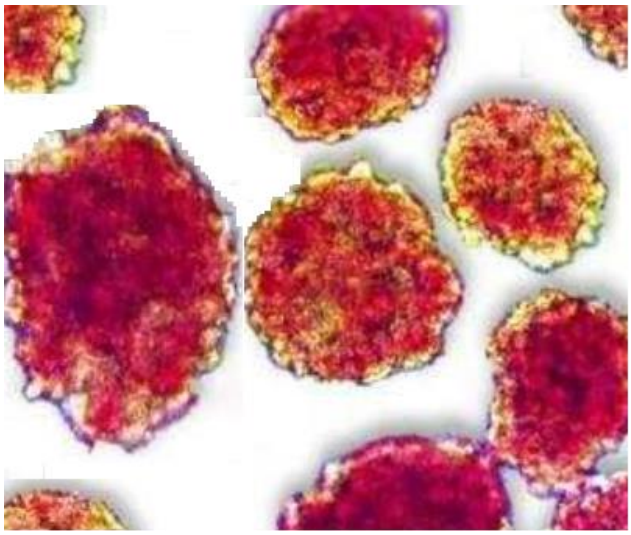
The present invention discloses a method for screening, activating, amplifying and cryopreserving mesenchymal stem cells in vitro and establishing a cell bank of mesenchymal stem cells. The method includes the following steps: using a dedicated primary screening medium of mesenchymal stem cells for first-stage screening culture to obtain purified mesenchymal stem cells; using a dedicated activation and amplification medium of mesenchymal stem cells to perform second-stage activation and large-scale amplification culture on the purified mesenchymal stem cells to obtain a large number of mesenchymal stem cells with activation functions; using a dedicated cryopreserving fluid of mesenchymal stem cells to cryopreserve the stem cells and performing preservation according to ABO/RH typing and HLA typing; and establishing an information file for retrieval to construct a mesenchymal stem cell bank.

21: 2023/10305. 22: 2023/11/06. 43: 2024/05/16
51: A61K; C12N; A61P
71: QINGDAO RUISIDE BIOLOGICAL TECHNOLOGY CO., LTD.
72: LI, Cuicui, WANG, Fubin, CHEN, Mengmeng, LIU, Cuijuan., WANG, Erpu., ZOU, Wei., FU, Xueqi., ZHANG, Bingqiang

54: AN INDUCER FOR INDUCING A MESENCHYMAL STEM CELL TO DIFFERENTIATE INTO AN ISLET CELL

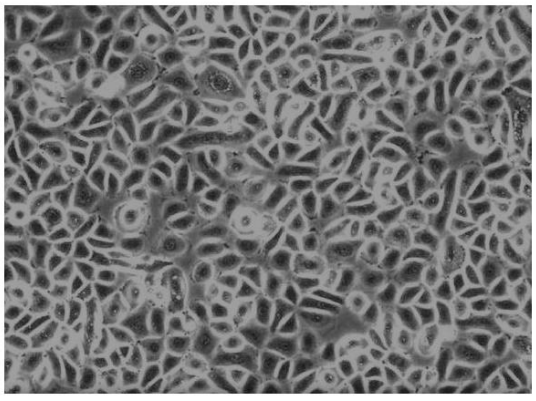
00: -

The present invention belongs to the field of biomedicine, and relates to an inducer for inducing a mesenchymal stem cell to differentiate into an islet cell. An inducer for inducing a mesenchymal stem cell to differentiate into an islet cell consisted of the following components: GLP-1, parathyroid hormone, paracetamol, rapamycin, icariin, trametinib, EPO and VEGF. Each component in a inducer for inducing a mesenchymal stem cell to differentiate into an islet cell of the present invention is safe and non-toxic, requiring fewer steps and short time to induce differentiation, with high induction efficiency.



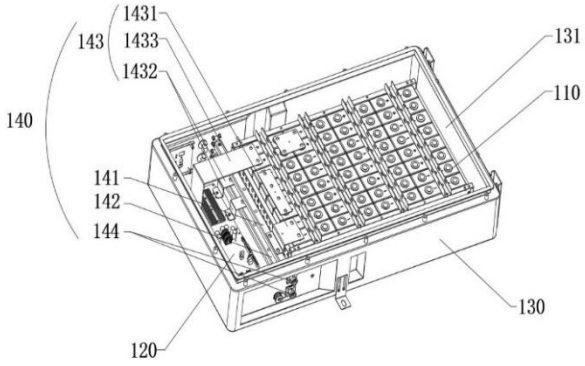
21: 2023/10306. 22: 2023/11/06. 43: 2024/05/16
51: A61K; C12N

71: QINGDAO RUISIDE BIOLOGICAL TECHNOLOGY CO., LTD.
72: ZHANG, Bingqiang, ZOU, Wei, FU, Xueqi, CHEN, Mengmeng
54: SERUM-FREE COMPLETE MEDIUM FOR INDUCING DIFFERENTIATION OF MESENCHYMAL STEM CELL TO CORNEAL EPITHELIAL CELL
00: -
A serum-free complete medium for inducing differentiation of a mesenchymal stem cell to a corneal epithelial cell in the field of differentiation induction of stem cells, prepared by the following method: uniformly mixing the serum-free complete medium, containing 5-10 μmol of resveratrol, 2-4 μmol of icariin, 1-3 nmol of aspirin, 1-3 nmol of parathyroid hormone, 5-10 nmol of hydrocortisone, 1-3 mg of rapamycin, 2-10 μg of testosterone, 2-10 μg of EPO, 2-10 μg of LIF and the balance of a corneal epithelial cell serum-free medium in per 1 L; and then performing sterilization by filtration. The disclosure uses resveratrol and icariin in combination with aspirin, parathyroid hormone, hydrocortisone, rapamycin, testosterone and growth factors to cooperatively induce directional differentiation, uses nontoxic induction components, is high in induction efficiency and short in induction time, and achieves high induced corneal epithelial cell activity, no cell transplantation rejection, no ethical problem and high safety.



21: 2023/10309 22: 2023-11-06 43: 2024-04-18
51: H01M; H01R
71: SRNE SOLAR CO., LTD
72: LI, Ke, CHEN, Yong
33: CN 31: 202223596631.3 32: 2022-12-29
54: ENERGY STORAGE CASE

57: The present utility model relates to the field of solar power generation, in particular to an energy storage case. The energy storage case includes a battery pack, a circuit control board, a housing and an electrical connection mechanism. The housing is provided therein with an installation cavity, the battery pack, the circuit control board and the electrical connection mechanism are all mounted in the installation cavity; the electrical connection mechanism includes a positive electrode pole, a negative electrode pole and an electrode connection assembly, both ends of the positive electrode pole and the two ends of the negative electrode pole are mounted on the housing, and the positive electrode pole and the negative electrode pole are electrically connected with the battery pack and the circuit control board through the electrode connection assembly. The present utility model enhances the structural strength and stability of the housing by arranging the positive electrode pole and the negative electrode pole mounted at both ends of the housing. The electrical connection mechanism composed of the positive electrode pole, the negative electrode pole and the electrode connection assembly has the characteristics of simple structure and good connection strength, so that the failure probability of the electrical connection structure between the battery pack and the circuit control board being loosened due to vibration, long-term use, etc., can be reduced, thereby enabling the energy storage case to maintain stable operation.



21: 2023/10320. 22: 2023/11/06. 43: 2024/05/10
51: G06Q
71: SCARSELLI, Bruno
72: SCARSELLI, Bruno
33: US 31: 63/171,212 32: 2021-04-06
54: ASSET VERIFICATION SYSTEM AND METHODS OF USING SAME
00: -
An asset verification system, comprising: a reader comprising a holder configured to hold an asset in a

tag-reading position, a light source consisting of at least one light to provide illumination to the asset, magnifying optics configured with an effective magnification for both sufficiently separating dots in a tag in the body of the asset and viewing the tag at an effective magnification greater than 10x, reflective optics for conveying an image of the tag through the reader, and, position controls for adjusting the positioning of the asset with respect to the magnifying optics; a multi-function hardware device comprising an optical sensor for reading the tag of the asset projected to the optical sensor by the reader; and, a database having information related to the asset including an association of the tag to the asset stored thereon.

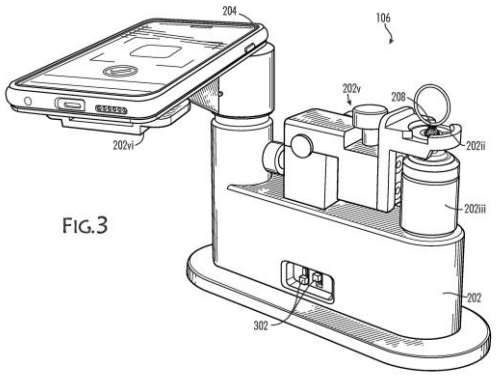
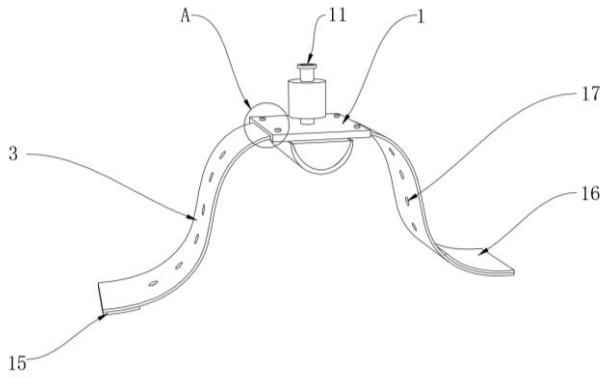


FIG.3

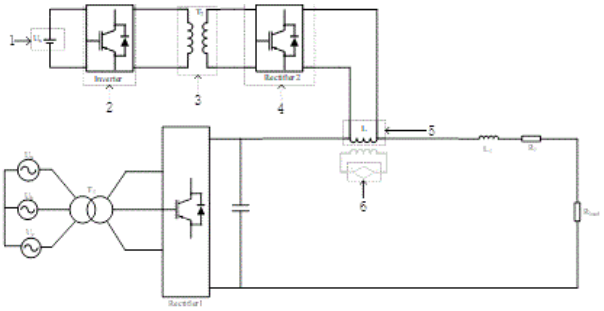
21: 2023/10352. 22: 2023/11/07. 43: 2024/05/10
51: A61F
71: Guang'an People's Hospital
72: Shu Xiaojuan, Shi Li, Cheng Guanglin
54: POSTOPERATIVE ANALGESIC AND HEMOSTATIC DEVICE FOR ANORECTAL NURSING
00: -
The present invention relates to the field of anorectal analgesis and hemostasis, discloses a postoperative analgesic and hemostatic device for anorectal nursing, including a fixed plate, two sides of the fixed plate penetrate through and are disposed with connecting grooves, an inner wall of the connecting groove is connected to a strap in a sliding mode, an interior of the connecting groove is arranged with a connecting component, and an interior of the fixed plate is penetrated by and threadedly connected to a connecting rod. According to the present invention, an adjusting block, a pressing block, an infusion groove, a through hole and a hemostatic layer are linked, the medicine is delivered to the hemostatic layer through the infusion groove and the through hole, so as to solve the problem that a wound may be easily touched during dressing change to cause pain to patients.



21: 2023/10389. 22: 2023/11/08. 43: 2024/05/10
51: A61B
71: Cancer Center of Guangzhou Medical University
72: Guoqian ZHANG, Shuxu ZHANG, Shuyu WU, Linjing WANG, Lu ZHOU, Ruihao WANG, Huaiyu LEI, Yuliang LIAO, Ping LI, Liangqian GOU
54: METHOD FOR ESTABLISHING MODEL FOR PREDICTING COMPLICATIONS IN NORMAL TISSUES AND ORGANS AFTER TUMOR RADIOTHERAPY
00: -
This invention relates to a clinical complications prediction technology for tumor patients after radiotherapy, particularly to a method for establishing a model for predicting complications in normal tissue organs after tumor radiotherapy based on multi-modal imageomics features and radiation dosimetry features. The method includes the following steps: S1: establishment of a multi-modal image database; S2: extracting image data related to critical organs near the tumor target area; S3: extracting imageomics features of critical organs for feature extraction from normal organ image data; S4: extracting parameters representing image phenotypic features of critical organs based on image segmentation results; S5: analyzing imageomics features; S6: extracting parameters related to the received radiation dose of critical organs; S7: collecting and extracting features. The invention employs imageomics data to predict complications in tumor patients after radiotherapy

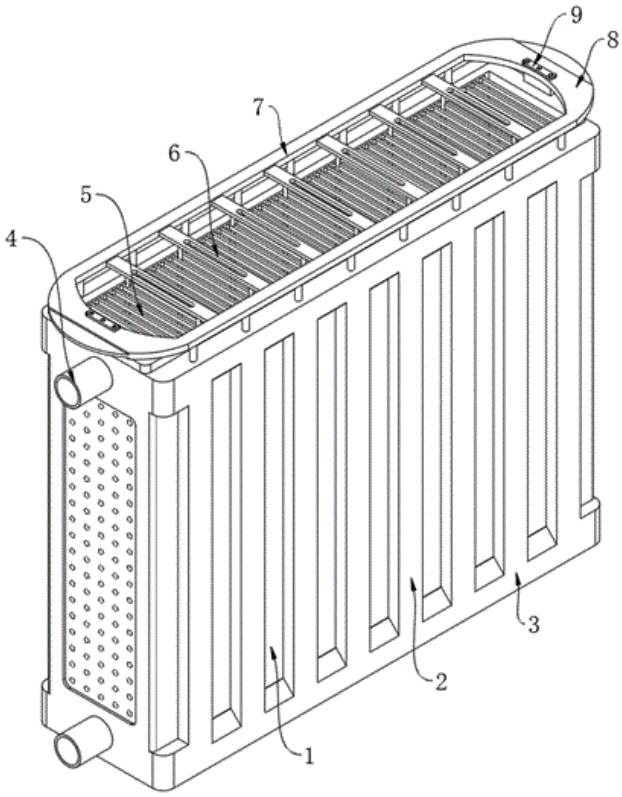
and chemotherapy. This reliable, safe, and highly precise predictive method offers timely and effective treatment and intervention for patients.

21: 2023/10390. 22: 2023/11/08. 43: 2024/05/10
51: F24D
71: Fuzhou University
72: YANG, Fan, ZHENG, Feng, LIU, Wanling, LIU, Baojin, HUANG, Wenfeng, HUANG, Yuncong, ZHANG, Hongwei, WANG, Weidong
33: CN 31: 2023113523764 32: 2023-10-18
54: ISOLATION TYPE FLEXIBLE FAULT CURRENT LIMITER AND CONTROL METHOD THEREOF
00: -
The present invention relates to an isolation type flexible fault current limiter and a control method thereof. The flexible fault current limiter includes an energy storage battery, an inverter, a transformer, a rectifier, a current limiting inductor, and a controlled current source; an output terminal of the energy storage battery is connected to an input terminal of the inverter, an output terminal of the inverter is connected to one side of the transformer, the other side of the transformer is connected to an input terminal of the rectifier, an output terminal of the rectifier is connected to two terminals of the current limiting inductor, the current limiting inductor is connected in series to a direct current distribution network system, and the controlled current source is coupled to the current limiting inductor; the energy storage battery releases electrical energy to turn on the inverter, an alternating current voltage is generated at the input terminal of the rectifier through the transformer, and the output terminal of the rectifier generates a clamping voltage at the two terminals of the current limiting inductor so that the current limiting inductor is connected to a line of the direct current distribution network system for current limiting; and the controlled current source is configured to eliminate a magnetic flux saturation state of the current limiting inductor.



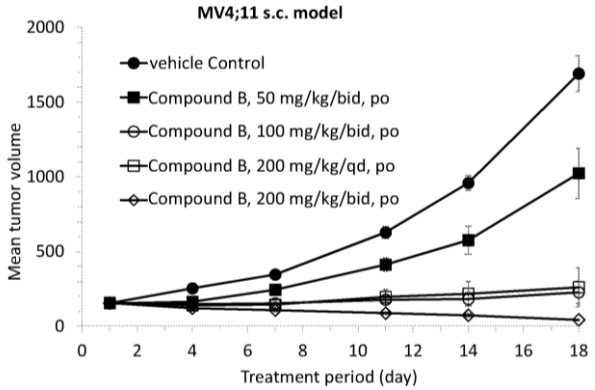
21: 2023/10393. 22: 2023/11/08. 43: 2024/05/10
51: F24D
71: St. Lawrence (Tangshan) Metal Products Co., Ltd.
72: YANG, Gang, ZHOU, Chunmei, GUO, Song, ZHANG, Hong, YANG, Jianguo, LANG, Shuangfen
54: NOVEL STEEL PLATE RADIATOR WITH HIGH HEAT DISSIPATION PERFORMANCE
00: -
The present invention relates to the technical field of radiator technology, in particular to a novel steel plate radiator with high heat dissipation performance, comprising a radiator body provided with a plurality of hot water channels wherein the plurality of hot water channels are interconnected by connecting channels, and further comprising sliding rods wherein end portions of the sliding rods are inserted into the plurality of hot water channels and slidably connected to inner walls of the plurality of hot water channels through sealing slide columns, and another end portions of the sliding rods penetrate through the radiator body and are slidably connected to the radiator body, a push-pull frame

fixedly installed at another end portions of the sliding rods, and positioning display assemblies respectively connected to the radiator body and the push-pull frame. The novel steel plate radiator with high heat dissipation performance of the present invention has a novel structure and is simple to operate; and the present invention can quickly adjust the heating effect according to the usage scenario or needs, improves the practicality and flexibility of the equipment, and provides convenience for users.



21: 2023/10395. 22: 2023/11/08. 43: 2024/05/22
51: A61K
71: KURA ONCOLOGY, INC., THE REGENTS OF THE UNIVERSITY OF MICHIGAN
72: WU, Tao, LI, Liansheng, WANG, Yi, REN, Pingda, GREMBECKA, Jolanta, CIERPICKI, Tomasz, KLOSSOWSKI, Szymon, POLLOCK, Jonathan, BORKIN, Dmitry
33: US 31: 62/309,372 32: 2016-03-16
33: US 31: 62/334,369 32: 2016-05-10
33: US 31: 62/431,389 32: 2016-12-07
33: US 31: 62/446,640 32: 2017-01-16
54: SUBSTITUTED INHIBITORS OF MENIN-MLL AND METHODS OF USE
00: -

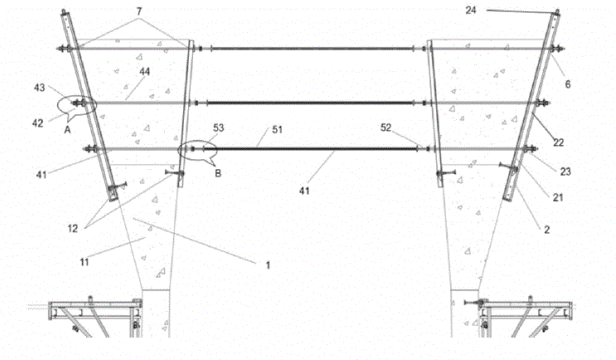
The present disclosure provides methods of inhibiting the interaction of menin with MLLl, MLL2 and MLL-fusion oncoproteins. The methods are useful for the treatment of leukemia, solid cancers, diabetes and other diseases dependent on activity of MLLl, MLL2, MLL fusion proteins, and/or menin. Compositions for use in these methods are also provided.



21: 2023/10436. 22: 2023/11/09. 43: 2024/05/10
51: E01D
71: The Third Construction CO., LTD of China Construction Third Engineering Bureau
72: Yeguang Fan, Manhe Zhang, Yunhao Du, Zhidong Fan, Yunchang Zhu
33: CN 31: 202211650492X 32: 2022-12-21
54: STABLE CAST-IN-PLACE FORMWORK STRUCTURE FOR SPLAYED PIER BODY TOP
00: -

The present invention is suitable for the field of casting construction of irregular pier bodies of high piers, and provides a stable cast-in-place formwork structure for a splayed pier body top. The stable cast-in-place formwork structure for a splayed pier body top includes anchor climbing cones embedded in advance and formworks mounted on inner and outer walls of a pier body top, where bottoms of the formworks are fixed to the pier body top by means of the anchor climbing cones, a tie rod transversely penetrates the pier body top, and the tie rod passes through the formworks; and the formworks include face plates, wood I-shaped beams vertically provided on backs of the face plates, and double-spliced steel channels transversely provided on backs of the wood I-shaped beams, the wood I-shaped beams and the double-spliced steel channels are connected by means of connecting

claws, and the tie rod is locked with the formworks on the inner and outer walls of the pier body top. The structure fully utilize that tension characteristics of the tie rod when the outer wall is inclined and the compression characteristics of a steel pipe when the inner wall is inclined, and fully solves the problem that a formwork system inclined inwards or outwards of the splayed high pier body is difficult to be self-stabilized by exerting the characteristics of the two. The present invention has the advantages of a simple structure and good stability, and reduces danger of high-altitude construction.

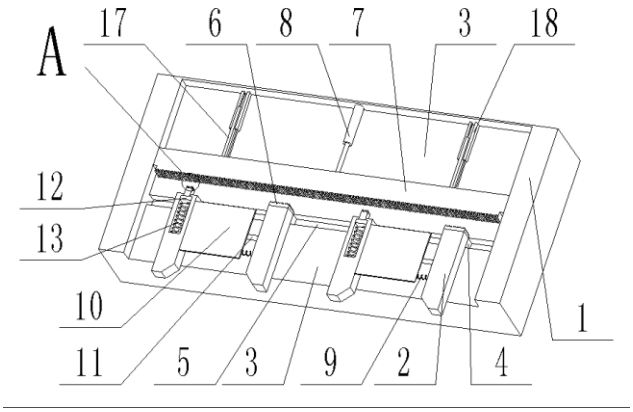


21: 2023/10437. 22: 2023/11/09. 43: 2024/05/10
51: A63G
71: YueYang Vocational Technical College
72: Fang Jianhui, Fei Xifang
33: CN 31: 202310185091.X 32: 2023-03-01

54: COCKPIT STRUCTURE FOR AMUSEMENT EQUIPMENT

00: -

The present invention discloses a cockpit structure for amusement equipment, and belongs to the technical field of amusement equipment. The cockpit structure for amusement equipment includes two groups of seat baffles arranged on seats, each group of seat baffles includes two plate bodies, ends of the plate body are extended into a transverse groove body arranged at a bottom of the seat, the ends of the plate body are fixedly arranged with first sliding blocks, the first sliding block is slidably connected to a first sliding groove disposed on a side wall of the groove body, an end, close to the first sliding block, of the plate body is arranged with a first gear rack, the first gear rack may be engaged with a second gear rack, and the second gear rack is disposed in the groove body and slides along a depth direction of the groove body. The cockpit structure for amusement equipment is arranged with two groups of seat baffles, the two groups of seat baffles can adaptively move according to the sizes of different human bodies and effectively limit the position after moving to ensure the safety of tourists and avoid the tourists being slid on seats due to a centrifugal force when they experience a rotary aircraft.

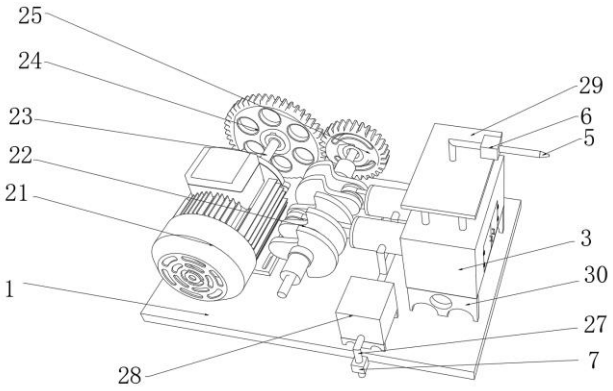


21: 2023/10438. 22: 2023/11/09. 43: 2024/05/10
51: A61M
71: NANYANG FIRST PEOPLE'S HOSPITAL
72: Li Mengke, Li Yuan

54: DRAINAGE DEVICE FOR HEPATOBILIARY SURGERY

00: -

The present invention discloses a drainage device for hepatobiliary surgery, including a base plate, a right side of a top end of the base plate is arranged with a fixed box, a middle part of the right side of the top end of the base plate is fixedly connected to a rotation motor, an output end of the rotation motor is penetrated by and fixedly connected to a driving shaft, an outer diameter of the driving shaft penetrates through and is fixedly connected to a driving gear, and the driving gear is engaged and connected to a driven gear. According to the present invention, the driving gear is matched with the driven gear, so that the crankshaft can be driven to rotate, a piston can be driven to move by the crankshaft, and the effusion is transferred to the drainage box through the infusion pipe.

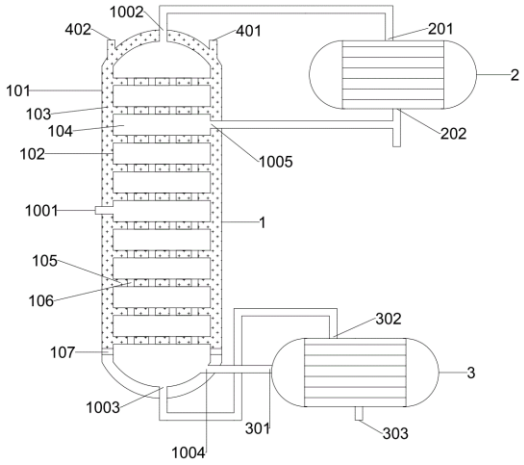


21: 2023/10439. 22: 2023/11/09. 43: 2024/05/10
51: B01D
71: Hebei Chemical and Pharmaceutical College
72: He Xiaoyun

54: RECTIFICATION DEVICE FOR IMPROVING RECTIFICATION PURITY

00: -

The invention provides a rectifying device for improving rectification purity, which comprises a rectifying tower, a condenser and a reboiler, wherein the rectifying tower comprises an inner housing and an outer housing; the inner housing and the outer housing are connected through a connecting plate; the cavity between the outer housing and the inner housing is an outer cavity; the cavity inside the inner housing is an inner cavity; the rectifying tower is also provided with a feed inlet, a first discharge outlet, a second discharge outlet, a circulating liquid inlet and a circulating liquid outlet; the feed inlet, the first discharge outlet and the second discharge outlet are respectively communicated with the inner cavity; the circulating liquid inlet and the circulating liquid outlet are respectively communicated with the outer cavity; a plurality of tower plates are also arranged in the inner housing of the rectifying tower, and a plurality of through holes are arranged on the tower plates; the inside of the tower plate is a hollow structure and is communicated with the outer cavity; the outer cavity is filled with coolant. According to the invention, the circulating coolant is filled in the outer cavity and the inside of the tower plates to control the temperature between the tower plates, so that the separation efficiency and the separation purity can be effectively improved and the separation can be optimized.

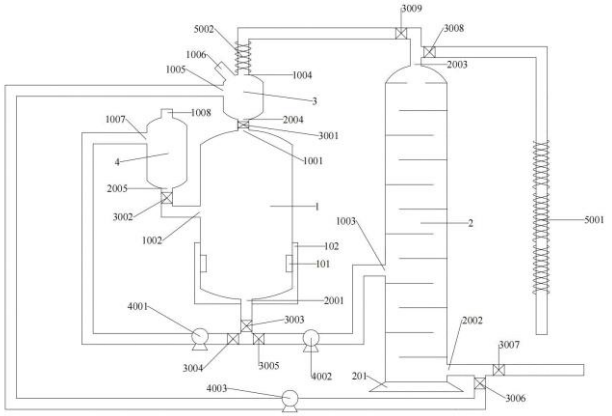


21: 2023/10440. 22: 2023/11/09. 43: 2024/05/10
51: B01D
71: Hebei Chemical and Pharmaceutical College
72: He Xiaoyun, Zhang Zhiyan

54: EXTRACTION DEVICE FOR IMPROVING EXTRACTION EFFICIENCY

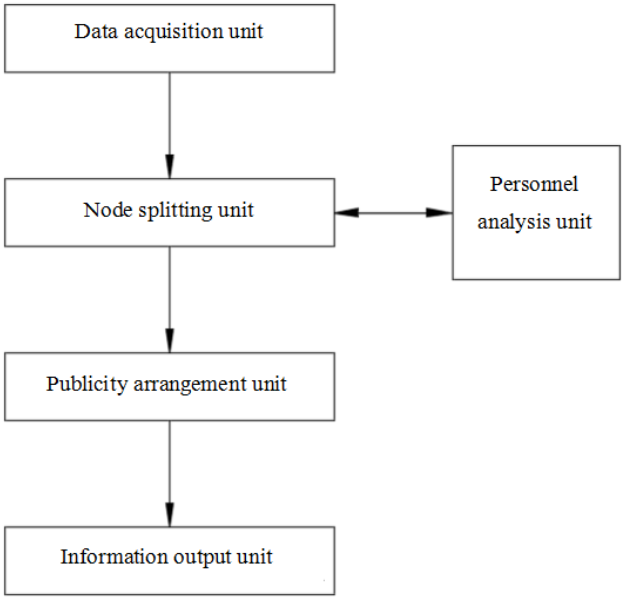
00: -

The invention provides an extraction device for improving extraction efficiency, which comprises an extraction tank, a rectifying tower, a first recovery tank and a second recovery tank; the extraction tank is respectively communicated with a rectifying tower, a first recovery tank and a second recovery tank; the rectifying tower is respectively communicated with the first recovery tank, the second recovery tank and the outside; the first recovery tank and the second recovery tank are respectively communicated with the outside; the invention integrates various processes, has high adaptability, saves cost, has simple process and simple operation, and greatly improves the extraction efficiency; the invention is provided with a recovery system to recover the original solution and the extractant into the extraction tank again, thereby improving the extraction efficiency, avoiding the waste of resources and improving the separation purity.



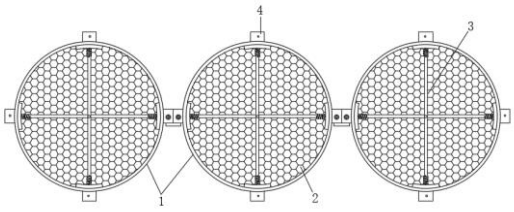
21: 2023/10454. 22: 2023/11/09. 43: 2024/05/13
51: G06Q
71: Anhui Science And Technology University
72: Shang Lei, Jia Weidong, Wang Yajun, Li Xinwei
33: CN 31: 2023105469081 32: 2023-05-16
54: INTELLIGENT CONTENT PUBLICITY SYSTEM
00: -

The present invention discloses an intelligent content publicity system, and relates to the technical field of intelligent content publicity. The system includes a data acquisition unit, a node splitting unit, a publicity arrangement unit, a personnel analysis unit and an information output unit, so as to solve the technical problems of increased cost and resource waste in blind playing. According to the present invention, working days and holidays are analyzed, split into different time periods, and judged according to the people flow in different time periods, so that targeted playing may not only reduce the resource waste caused by blind playing, but also ensure users to acquire the information they need, further promote users to consume, and thus bring benefits to businesses that advertise; and by analyzing the proportion of men and women in the people flow in different time periods, and combining with different types of advertisements, intelligent content playing is realized, so that accurate playing may be carried out according to different users.



21: 2023/10469. 22: 2023/11/10. 43: 2024/05/09
51: E04G
71: Taizhou Vocational & Technical College, Boyu (Sanmen County) Bidding Co., Ltd., Taizhou Boyu Digital Technology Co., Ltd.
72: Li Jiaxuan, Yin Jinlin, Zhou Yihao, Wang Yucheng, Zhang Shengjie, Ying Danlei
54: SHOCKPROOF REINFORCED STRUCTURE
00: -

The present application belongs to the technical field of reinforced structures, and in particular relates to a shockproof reinforced structure. The shockproof reinforced structure includes reinforcement assemblies, the reinforcement assembly is a circular profile structure, an inner wall of each of the reinforcement assemblies is fixedly mounted with a fastening knot network, each of the reinforcement assemblies is further internally arranged with a shock-resistant assembly, the shock-resistant assembly is supported on the inner wall of the circular profile structure, and an outer wall of each of the reinforcement assemblies is fixedly connected to four butt joints distributed in a ring-shaped array. In the present utility, a single reinforcement assembly can locally support a building, if a larger area demands for support, individual reinforcement assemblies can be assembled via the butt joints, U-shaped disassembly frames and locking screws to adapt to the current old building, and the assembly form is changeable with flexible use.



21: 2023/10477. 22: 2023/11/10. 43: 2024/05/09
51: A47K; E03D
71: POCAI, Ricardo
72: POCAI, Ricardo
54: TOILET SEAT COVER
00: -
The present invention relates to a toilet seat cover (100) built in a single piece, comprising a first edge (110) and a second edge (120) which, when surrounding a toilet seat (200), have its perimeters totally or partially overlapped and fastened by the adherence of the material in areas of direct contact with the toilet seat (200) and with each other in overlapping areas (150).

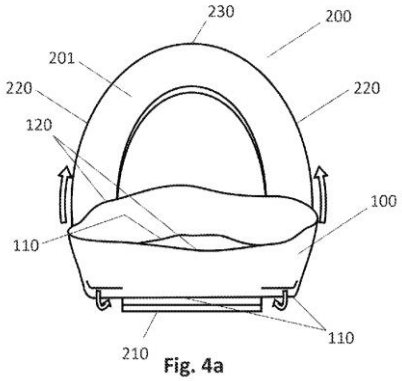
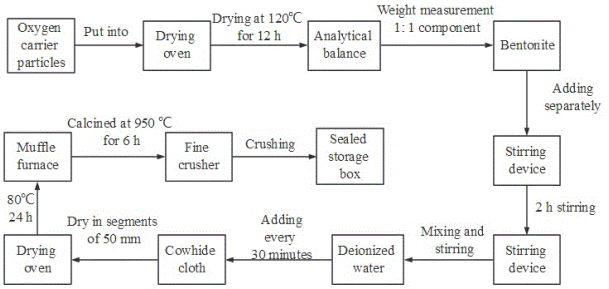


Fig. 4a

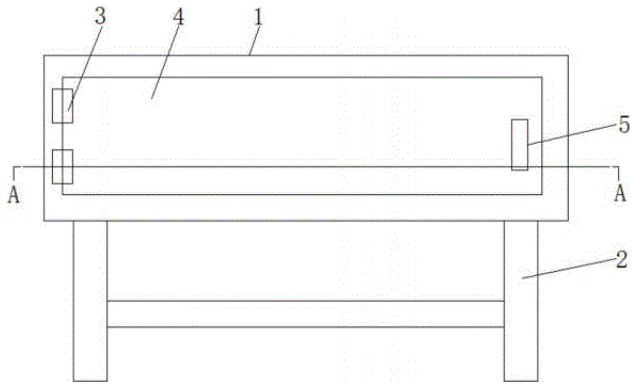
21: 2023/10504. 22: 2023/11/13. 43: 2024/05/14
51: C10L
71: Henan University of Urban Construction
72: ZHOU Hengtao, ZHANG Zhiyuan, JU Rui, ZHANG Lilin, KONG Youfang, DONG Shanshan, CHEN Honglin, WANG Xutao, WANG Yiwen, LIU Lele, LI Hengbin, CHEN Hongli, PENG Lansi
54: IRON-COPPER-CERIUM-BASED COMPOSITE OXYGEN CARRIER FOR CHEMICAL LOOPING COMBUSTION AND PREPARATION METHOD THEREOF
00: -
The invention relates to the technical field of chemistry, and discloses an iron-copper-cerium-based composite oxygen carrier for chemical looping combustion and a preparation method thereof. Iron-based, copper-based and cerium-based oxygen carriers are mixed by a mechanical mixing method, so that the production process and adjustment of the mechanical mixing method are easy to control, the yield of target products is high, and the method is suitable for mass production in factories; the moisture in Fe2O3 particles, CuO particles and CeO2 particles is completely removed by a constant-temperature drying oven, so that the accuracy of weight measurement is improved and the poor use effect of the produced composite oxygen carrier is avoided; by adding inert carrier to the oxygen carrier, the reaction rate and mechanical strength of the oxygen carrier can be improved and the reaction temperature can be reduced. Through the strong heat insulation ability of cowhide cloth, the influence of geothermal energy on the mud mass is avoided; the addition of CeO2 can also accelerate the combustion efficiency and improve the energy utilization efficiency.



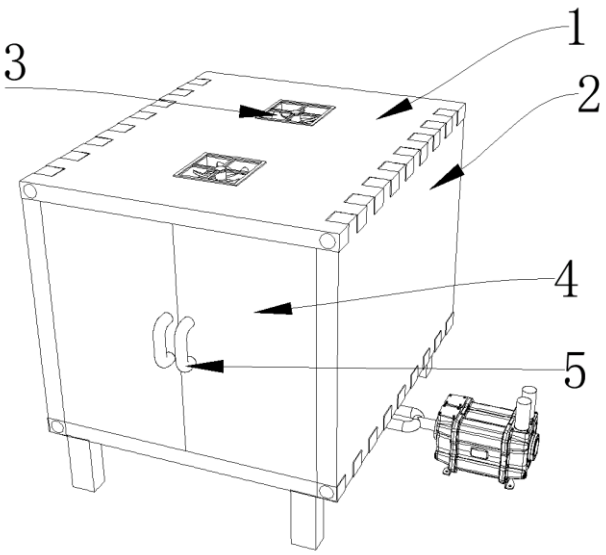
21: 2023/10505. 22: 2023/11/13. 43: 2024/05/14
51: C04B
71: China Building Materials Academy Co., Ltd., China National Building Material Group Co., Ltd.
72: Nan AN, Wensheng ZHANG, Xuehong REN, Jiayuan YE, Hongtao ZHANG, Lixue CAO, Wenjuan CUI
33: CN 31: 202211593943.0 32: 2022-12-13
54: BORON-PHOSPHORUS COMPOSITE MODIFIED HIGH BELITE SULPHOALUMINATE CEMENT CLINKER AND PREPARATION METHOD THEREOF
00: -
The disclosure relates to a boron-phosphorus composite modified high belite sulphoaluminate cement clinker and a preparation method thereof. The boron-phosphorus composite modified high belite sulphoaluminate cement clinker includes the following mass fractions of raw materials: 55% to 70% of limestone, 12% to 20% of sandstone, 0% to

5% of Bayer red mud, 5% to 15% of desulfurized gypsum, 5% to 15% of bauxite, 0.01% to 1% of borax, and 0.01% to 2% of calcium phosphate. The cement clinker includes the following mass fractions of mineral components in mass fractions: 15% - 30% OF C4A3, 55% to 75% of C2, 5% to 10% of C4AF, and 5% to 20% of C, with the rest including a plurality of miscellaneous mineral components. The following advantages are associated with the disclosure: Borax and calcium phosphate are used to induce the transformation of dicalcium silicate (C2S) in the clinker minerals from the BETA-C2S crystalline phase to more reactive ALPHA-C2S and ALPHA'-C2S crystalline phases. The transformation advances the hydration process of C2S, thus enhancing strength during later stages of cement curing.

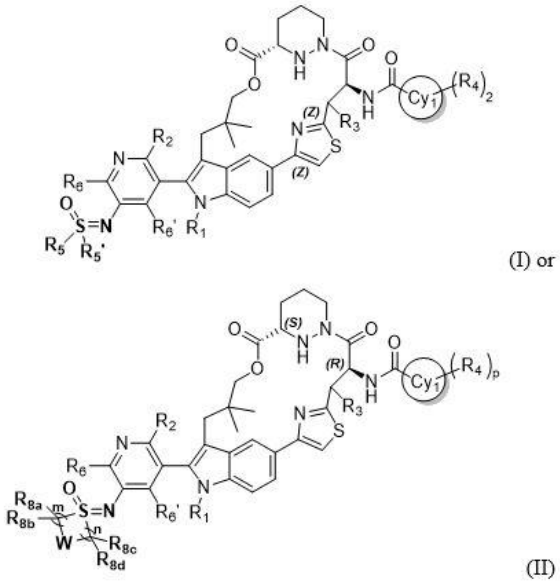
21: 2023/10506. 22: 2023/11/13. 43: 2024/05/14
51: B25H
71: Dalong Nature Reserve Station in the Management and Protection Center of Qilian Mountain National Nature Reserve, Gansu Province
72: Yi Yuyuan, Zhang Jiayi, Hao Hongjie
54: STORAGE RACK FOR EASY ACCESS OF GARDEN SHEARS
00: -
The utility model discloses a storage rack for easy access of garden shears, including a frame. Support legs are fixedly connected to a bottom of the frame. A front face of the frame is movably connected to a baffle via hinges. An outer surface of the frame is in contact with an inner surface of the frame. A front face of the baffle is fixedly connected to a handle. Two grooves are disposed on left and right side walls of the frame. Two bearings are fixedly mounted inside the two grooves. The two bearings are internally and fixedly sleeved with rotary shafts. A placement box is arranged inside the frame. According to the utility model, the placement box is arranged inside the frame, and placement grooves are disposed on a placement mat, it is very convenient to locate the garden shears, so as to store and access the garden shears easily. Moreover, limit rods are arranged inside limit grooves, and an upper surface of each of the limit rods is fixedly connected to limit blocks, so that the garden shears can be pressed and fixed, which solves the problem that the garden shears are difficult to be taken out of the existing garden shear storage rack.



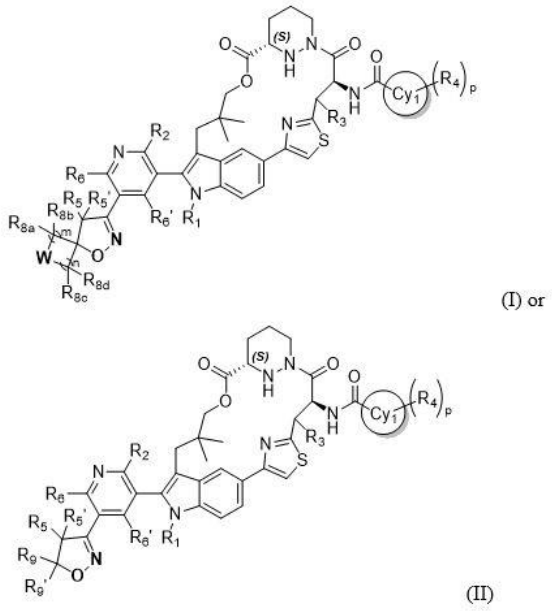
21: 2023/10507. 22: 2023/11/13. 43: 2024/05/14
51: E04B
71: Xinyu University
72: Liu Yujie, Xu Li, Zhong Xin, Zeng Wenlin, Ma Caiwei, Liu Guilin
33: CN 31: 202311476422.1 32: 2023-11-08
54: QUICK-ASSEMBLY INTEGRATED BATHROOM MODULE
00: -
The present invention relates to the field of bathroom, and discloses a quick-assembly integrated bathroom module. The module includes a top plate, specifically, side plates penetrate through left and right sides of the top plate, and front and rear sides of one adjacent sides of the two side plates are hinged with flap doors. According to the present invention, the side plates are aligned with the top plate and a bottom plate first, and first fixed rods and the second fixed rods are inserted into corresponding holes of the top plate, the side plates and the bottom plate, then bolts are inserted into bolt slots for twist, and cross brackets are aligned with the cross grooves, so that polygonal magnets may enter first polygonal grooves for limiting.



21: 2023/10513. 22: 2023/11/13. 43: 2024/05/14
51: A61K
71: ADLAI NORTYE BIOPHARMA CO., LTD.
72: LV, Meng, CHEN, Yufeng, LIU, Canfeng, CHENG, Wanli, CHEN, Kaixuan, LI, Feifan, WU, Peng, YANG, Han, SUN, Zhao, JIN, Chaofan, LIU, Shuaishuai, HE, Nanhai
33: CN 31: 202211463547.6 32: 2022-11-16
54: A PAN-KRAS INHIBITOR COMPOUND
00: -
The present invention relates to a pan-KRAS inhibitor compound represented by formula (I) or formula (II) and a pharmaceutical composition containing the compound, and the use of compound of formula (I) or formula (II) for preventing and/or treating cancer, tumor, inflammatory disease, autoimmune disease or immune-mediated disease.



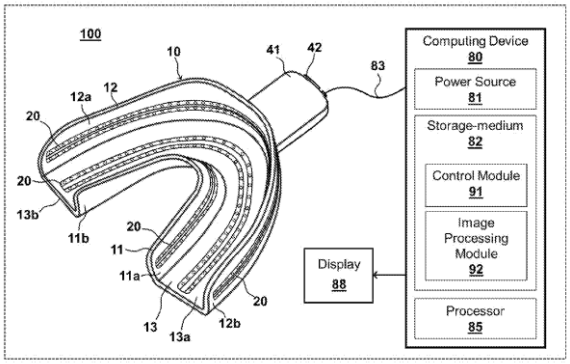
21: 2023/10514. 22: 2023/11/13. 43: 2024/05/14
51: A61K
71: ADLAI NORTYE BIOPHARMA CO., LTD.
72: CHEN, Yufeng, LV, Meng, LI, Feifan, LIU, Canfeng, CHEN, Kaixuan, CHENG, Wanli, YANG, Han, WU, Peng, LIU, Shuaishuai, HE, Nanhai
33: CN 31: 202211447990.4 32: 2022-11-18
54: A PAN-KRAS INHIBITOR COMPOUND
00: -
The present invention relates to a pan-KRAS inhibitor compound represented by formula (I) or formula (II) and a pharmaceutical composition containing the compound, and the use of compound of formula (I) or formula (II) for preventing and/or treating cancer, tumor, inflammatory disease, autoimmune disease or immune-mediated disease.



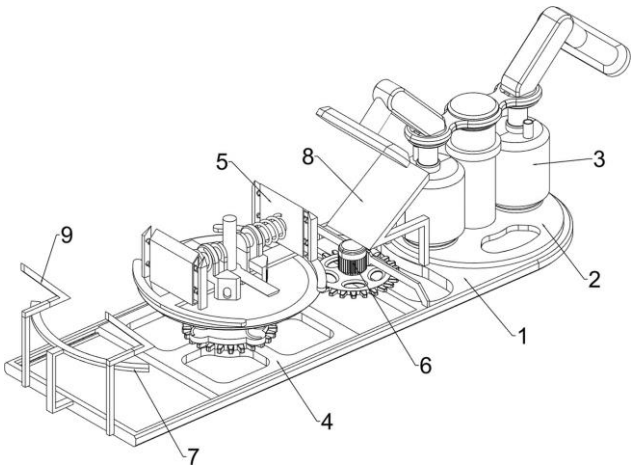
(I) or

(II)

21: 2023/10521. 22: 2023/11/13. 43: 2024/05/14
51: A61B; A61C
71: MARGHALANI, Thamer
72: MARGHALANI, Thamer
33: US 31: 17/324,980 32: 2021-05-19
54: THREE-DIMENSIONAL ORAL IMAGING SYSTEM AND METHOD
00: -
An oral imaging system and method for acquiring dental impression scans is provided by having one or more imaging strips with illumination elements and imaging sensors that are positioned along the contour of the various surfaces of a dental tray and acquire images of the lips, teeth, and gum regions of a mouth. Fluid channels interconnecting a vacuum source or pressurized air source to openings near the imaging sensors on the dental tray are provided to reduce condensation on the imaging sensors. An extraoral extension may also be provided to acquire images of the exterior region of the lips. Furthermore, two dental trays of the present invention may be stacked together so that the entire mouth may be scanned at one time. A ramp is provided on the lower dental tray in the stacked configuration for acquiring relative jaw positions.

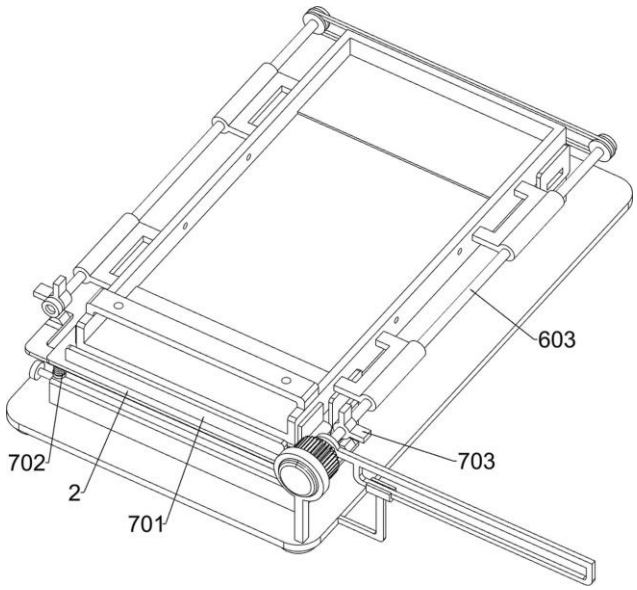


21: 2023/10522. 22: 2023/11/13. 43: 2024/05/14
51: B05B
71: JIANGXI WANGLAI TECHNOLOGY CO., LTD.
72: ZHAN, Caihong, HUANG, Minhui, YANG, Yu
33: CN 31: 202311326649.8 32: 2023-10-13
54: PAINT SPRAYING DEVICE FOR LAMP ACCESSORIES
00: -
The present invention relates to a paint spraying device, and particularly relates to a paint spraying device for lamp accessories. The present invention provides a paint spraying device for lamp accessories capable of clamping and continuously rotating a lamp shade. A paint spraying device for lamp accessories comprises a base, a sliding rail, a turntable and spray guns; the front end of the base is provided with the sliding rail; the turntable is rotatably connected to the rear end of the base; two spray guns are fixed back on the turntable; the device further comprises a moving mechanism, a clamping mechanism and a rotating mechanism; the moving mechanism is arranged on the sliding rail; the clamping mechanism is arranged on the moving mechanism; and the rotating mechanism is arranged on the base. A sliding seat that can slide back and forth is arranged; and the sliding seat is provided with clamping blocks that can clamp the lamp shade internally. The interior of the lamp shade is clamped through the clamping blocks, without manual fixation, and then the sliding seat slides to the rear end of the sliding rail for painting. A servo motor can drive the lamp shade to rotate continuously and at constant speed.



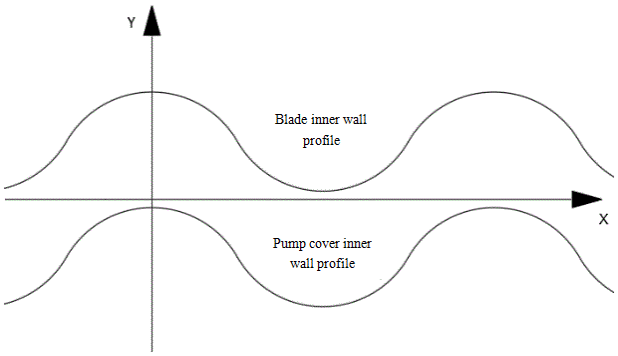
21: 2023/10523. 22: 2023/11/13. 43: 2024/05/14
51: B05B
71: JIANGXI WANGLAI TECHNOLOGY CO., LTD.
72: ZHAN, Caihong, HUANG, Minhui, YANG, Yu
33: CN 31: 202310997902.6 32: 2023-08-09
54: AUXILIARY TRIMMING DEVICE FOR LAMP ACCESSORIES
00: -

The present invention relates to the technical field of production of lamp accessories, and particularly relates to an auxiliary trimming device for lamp accessories. The present invention provides an auxiliary trimming device for lamp accessories capable of limiting a lamp belt. An auxiliary trimming device for lamp accessories comprises a bottom plate, a placing frame and a safety baffle plate. The placing frame is fixed to the bottom plate through a bracket; and the safety baffle plate is fixedly connected to the right side of the placing frame. The device further comprises a guide bevel rod, a collecting frame, a cutting mechanism and a limiting mechanism; the collecting frame is arranged on the right end of the placing frame and fixedly connected therewith; the collecting frame is provided with a pull-out drawer; and the guide bevel rod is arranged on the upper part of the collecting frame. A servo motor drives rotating shafts to rotate, and then controls a cutter to trim the lamp belt. During this period, an L-shaped push block controls the lifting of a limiting baffle plate and the limiting baffle plate can block and limit the end part of the lamp belt.



21: 2023/10549. 22: 2023/11/14. 43: 2024/05/14
51: G06F
71: Xi'an University of Technology
72: WANG Like, YAO Liang, WANG Jing, ZHU Guojun, FENG Jianjun, LUO Xingqi
33: CN 31: 202310441295.5 32: 2023-04-23
54: DESIGN METHOD FOR BIONIC WAVY BLADE TIP CLEARANCE OF CENTRIFUGAL PUMP
00: -

The invention discloses a design method for a bionic wavy blade tip clearance of a centrifugal pump, which is specifically implemented according to the following steps: step 1, designing a wave-shaped parameter model; step 2, calculating the blade tip clearance as the minimum diameter to obtain a bionic wavy clearance waveform; step 3, calculating the arrangement period of the wavy function curve; step 4, carrying out the full-scale design of the blade tip profile of the impeller; step 6, designing the inner wall of the pump cover corresponding to the blade outlet and the blade inlet tip; step 7, checking whether the blade tip clearance meets the assembly requirements. The bionic wavy blade tip clearance of the invention can increase the resistance of tip leakage flow through the blade tip clearance by increasing the vertical wall shear stress of the blade tip, which can effectively inhibit the tip leakage flow.

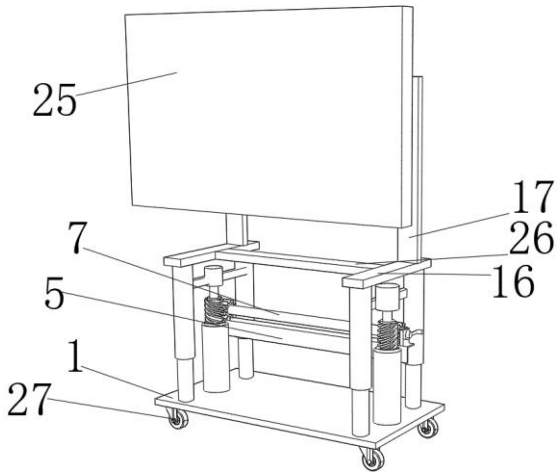


21: 2023/10557. 22: 2023/11/14. 43: 2024/05/14
51: G09B
71: Jiangsu College of Safety Technology
72: Chen Lei, Shi Chunhong, Zhang Kesheng, Yang Yanchuan, Jia Chuanhao, Mou Lingyun, Li Yutong, Li Ya, Luo Haowen, Zhang Zhan, Xu Yinhao, Zhou Yiwei

54: DISPLAY DEVICE FOR COMPUTER APPLICATION TECHNOLOGY TEACHING

00: -

The present invention discloses a display device for computer application technology teaching, and the device includes a base, specifically, four corners of a top of the base are fixedly connected to first fixed rods, tops of the first fixed rods are slidably connected to first sliding rods, and a first support rod is fixedly connected between two of the first sliding rods. According to the present invention, worms, worm gears and rotating handles cooperate with each other to adjust heights to be convenient for users to observe; and with first rotating blocks, first rotating shafts and shaft levers, a display screen may be rotatably displayed, thus improving practicability of the display device.



21: 2023/10585. 22: 2023/11/15. 43: 2024/05/16
51: C04B
71: Jilin Jianzhu University
72: JIANG Hao, GUO Yafeng, CUI Jinyu, ZHANG Yunlong, QIAO Li, QIAN Xuesong
33: CN 31: 2023113979264 32: 2023-10-26

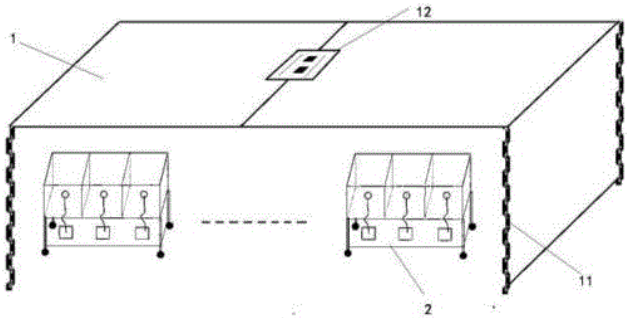
54: HIGH-TEMPERATURE-RESISTANT AND HIGH-PERFORMANCE CONCRETE AND PREPARATION METHOD THEREOF

00: -

The invention discloses high-temperature-resistant and high-performance concrete and a preparation method thereof, and belongs to the technical field of concrete. The high-temperature-resistant and high-performance concrete is made by adding steel fiber and polypropylene fiber into concrete, and specifically comprises the following raw materials in parts by mass: 171 parts of cement, 257 parts of fly ash, 42 parts of expansion agent, 128 parts of river sand, 111.3 parts of water, 3.42 parts of water reducer, 13.08-39.25 parts of steel fiber and 3.1 parts of polypropylene fiber. The high-temperature-resistant and high-performance concrete prepared by the invention improves the defects of low bending strength and high temperature resistance of traditional concrete materials; the high temperature resistance of the structure is enhanced; the residual mechanical properties of the material are improved, and the structure can still retain good integrity and residual mechanical properties after fire, thus effectively prolonging the service life of the structure.

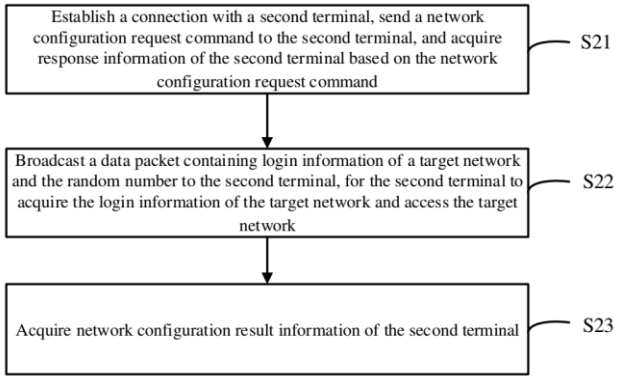
21: 2023/10587. 22: 2023/11/15. 43: 2024/05/16
51: A61K
71: Institute of Chinese Materia Medica, China Academy of Chinese Medical Sciences
72: ZHAO Xiaoang, JIN Rixian, TIAN Jixiang, ZHANG Dong, LIN Longfei
54: COMPOUND FRUCTUS GARDENIAE AND FERMENTED SOYBEANS TOTAL EXTRACT BASED ON SUPERCRITICAL EXTRACTION AND PREPARATION AND USE THEREOF
00: -
The invention relates to a compound fructus gardeniae and fermented soybeans total extract and its preparation method and application, and also relates to a pharmaceutical composition containing the total extract. The invention uses one or more technological methods such as solvent extraction, solvent extraction, resin adsorption and the like to prepare the compound fructus gardeniae and fermented soybeans total extract, and makes the total extract into internal dosage forms for oral administration, injections and external dosage forms for non-oral administration, such as powder, granules, tablets, capsules, pills, suppositories, intestinal solvents, injections, syrups, emulsions, suspensions, tinctures, ointments and sprays. The total extract of the invention can be used for preparing traditional Chinese medicine compound medicines for treating climacteric syndrome, osteoporosis, hyperlipidemia, hypertension, preventing cancer, insomnia, hepatitis, coronary heart disease, gastropathy bleeding, mental system diseases, anti-inflammation and antivirus, traumatic injury and other diseases.

21: 2023/10588. 22: 2023/11/15. 43: 2024/05/16
51: A01G
71: Rice Research Institute, Guangdong Academy of Agricultural Sciences
72: LUAN Xin, LIU Zhixia, ZHANG Qiang, ZHENG Zepai, YU Ning, FENG Xiaomin, SONG Yuhong, LAI Jinlai, LUO Xianyu, WU Yuting
54: RICE TOLERANCE EXPERIMENTAL DETECTION METHOD AND DEVICE USED
00: -
The invention discloses a rice tolerance experimental detection device, which comprises a detachable ceiling, wherein at least one movable culture box is arranged in the detachable ceiling; the upper layer of the movable culture box is a planting box, and the lower layer is an equipment box; the planting box is divided into a plurality of isolated compartments, and each compartment is provided with a set of atomizing devices. At the same time, the invention also provides a rice tolerance experimental detection method, which quantifies the salt tolerance of rice varieties by measuring seedling height, leaf number, lateral root number, root length, fresh weight and dry weight in different periods of salt stress. It can observe the growth in vivo all the time and in all directions, and comprehensively evaluate the salt tolerance.

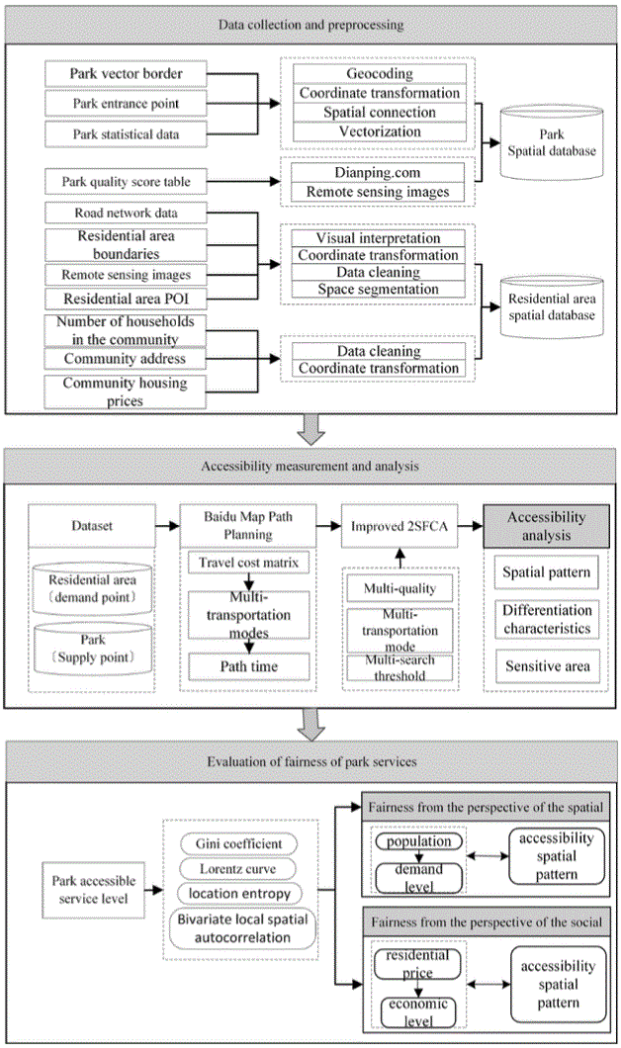


21: 2023/10594. 22: 2023/11/15. 43: 2024/05/17
51: H04W
71: ZHUHAI PANTUM ELECTRONICS CO., LTD.
72: YANG, Zongxin, ZHAO, Jing, PENG, Jibing, KONG, Junjie, HOU, Tao, MENG, Lina
33: CN 31: 2022115746531 32: 2022-12-08
33: CN 31: 2022115751991 32: 2022-12-08
54: NETWORK CONFIGURATION METHOD AND APPARATUS, DEVICE, AND MEDIUM
00: -
The present application relates to a network configuration method and apparatus, a device, and a medium. The method includes: establishing a connection with a second terminal, sending a network configuration request command to the second terminal, and acquiring response information of the second terminal based on the network configuration request command, where the response information includes a random number generated by the second terminal and corresponding to the second terminal, or the network configuration request command carries a random number generated by a first terminal and corresponding to the second terminal; broadcasting a data packet containing login information of a target network and the random number to the second terminal, for the second terminal to acquire the login information of the target network and access the target network;

acquiring network configuration result information of the second terminal. The technical solutions of the present application can improve efficiency of network configuration.

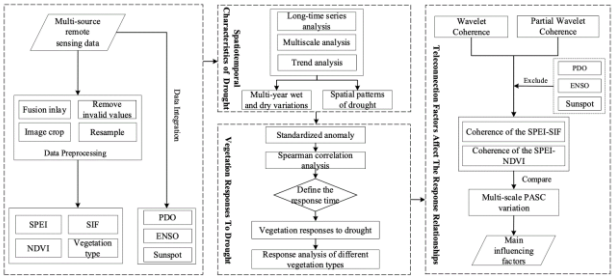


21: 2023/10623. 22: 2023/11/16. 43: 2024/05/16
51: G06F
71: FUZHOU UNIVERSITY
72: LIANG Juanzhu, XIE Shunyi
33: CN 31: 202310840287 .8 32: 2023-07-10
54: 2SFCA METHOD IMPROVED BASED ON PARK QUALITY AND MULTI-TRANSPORTATION MODE
00: -
An objective of the present invention is to provide a 2SFCA method improved based on park quality and multi-transportation mode, including: step S1: obtaining park data and cell data, acquiring park quality elements based on online comment pictures of Dianping.com and remote sensing images to score quality of each park, and establishing park supply and demand data by using an OSM road network dividing research unit; step S2: constructing a multi-transportation mode accessibility model based on an API path planning interface, and obtaining an OD travel time cost; step S3: constructing a 2SFCA method model, selecting a park attraction coefficient and a multi-transportation mode for improvement, and calculating a residential-area-to-park-service-facility accessibility result. In the present invention, travel modes and park quality are combined to effectively calculate the fairness of park facility accessibility from multiple perspectives such as the spatial structure and the social structure.



21: 2023/10624. 22: 2023/11/16. 43: 2024/05/16
51: G06Q
71: FUZHOU UNIVERSITY
72: LIANG Juanzhu, DONG Xiujuan
33: CN 31: 202310904532 .7 32: 2023-07-22
54: ASSESSMENT METHOD OF TERRESTRIAL VEGETATION RESPONSE TO DROUGHT BASED ON MULTI-SOURCE REMOTE SENSING DATA
00: -
The present invention relates to assessment method of terrestrial vegetation response to drought based on multi-source remote sensing data. The assessment method includes: first, introducing the acquisition of the long-time-series multi-source remote sensing data, where the multi-source remote sensing data include solar-induced chlorophyll fluorescence (SIF), normalized difference vegetation index (NDVI) and standardized precipitation evapotranspiration index (SPEI); classifying the

drought, and revealing space-time characteristics of the drought by adopting a trend analysis method from the perspective of long time series and multiple scales; quantifying vegetation growth and climate changes by adopting standardized abnormal analysis and correlation analysis methods to explore the relationship between vegetation and drought; defining the response time of vegetation to drought as the time scale at which the maximum absolute value of the correlation coefficient is observed, ranging from 1 to 12 on a monthly time scale, revealing the differences of NDVI and SIF responses to drought in different vegetation types, and exploring the potential of SIF in monitoring vegetation response to drought; moreover, assessing the influence of PDO, ENSO and sunspots on the response of vegetation to drought by using the wavelet coherence (WTC) analysis method and the partial wavelet coherence (PWC) analysis method. Therefore, the present invention has important significance for drought prevention and ecosystem protection planning.



21: 2023/10625. 22: 2023/11/16. 43: 2024/05/16
51: A01N
71: Institute of Chinese Materia Medica, China Academy of Chinese Medical Sciences
72: ZHAO Xiaoang, JIN Rixian, TIAN Jixiang, ZHANG Dong, LIN Longfei

54: COMPOUND LIGUSTICUM WALLICHII AND ANGELICA SINENSIS TOTAL EXTRACT BASED ON SUPERCRITICAL EXTRACTION

00: -

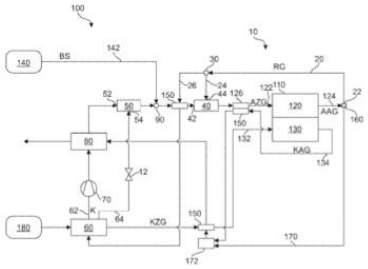
The invention relates to a compound Ligusticum wallichii and Angelica sinensis total extract based on supercritical extraction, a preparation method and application thereof, and also relates to a pharmaceutical composition containing the total extract. The invention uses carbon dioxide supercritical extraction method to prepare compound Ligusticum wallichii and Angelica sinensis total extract, and makes the total extract into dripping pills and soft capsules; the total extract of the invention can be used for preparing traditional Chinese medicine compound medicines for treating headache, rheumatic arthralgia, gynecological dysmenorrhea, irregular menstruation and the like.

21: 2023/10631. 22: 2023/11/16. 43: 2024/05/17
51: H01M
71: AVL LIST GMBH
72: NEUBAUER, Raphael, PÖSCHL, Robert, HOFER, Marlies, REITER, Bernd, SCHLUCKNER, Christoph, MATHÈ, Jörg
33: AT 31: A 50387/2021 32: 2021-05-18

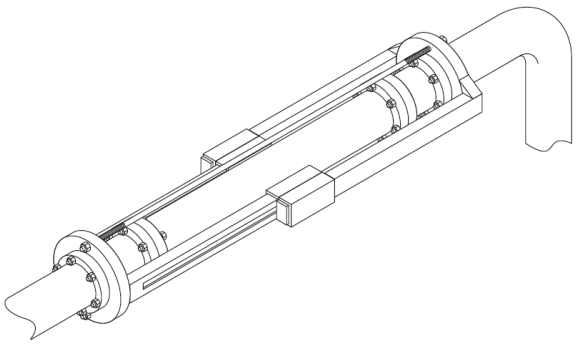
54: RECIRCULATION DEVICE FOR RECIRCULATING ANODE EXHAUST GAS IN A FUEL CELL SYSTEM

00: -

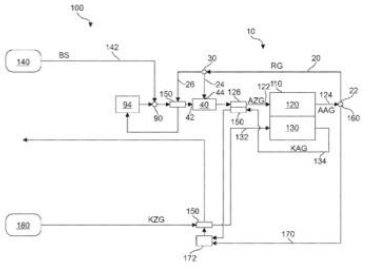
The present invention relates to a recirculation device (10) for recirculating anode exhaust gas (AAG) as a recirculation gas (RG) from an anode section (120) of a fuel cell stack (110) of a fuel cell system (100), having a recirculation line (20) with an intake section (22) for fluid-communicating connection with an anode discharge section (124) of the anode section (120), wherein the recirculation line (20) has a first partial recirculation line (24), a second partial recirculation line (26) and a divider device (30) for dividing the recirculation gas (RG) between the two partial recirculation lines (24, 26), wherein the first partial recirculation line (24) also has a first ejector device (40) for fluid-communicating integration into an anode supply section (122) of the anode section (120) and the second partial recirculation line (26) has a second ejector device (50) for fluid-communicating integration into the anode supply section (122), and wherein the first ejector device (40) is arranged downstream of the second ejector device (50), in a fluid-communicating manner with respect to the anode supply section (122).



21: 2023/10633. 22: 2023/11/16. 43: 2024/05/17
51: A01G; F16L
71: BRITS, BAREND CHRISTOFFEL
72: BRITS, BAREND CHRISTOFFEL
33: ZA 31: 2021/03488 32: 2021-05-24
54: EXTENDABLE ARM FOR A CENTRE PIVOT IRRIGATION SYSTEM
00: -
The invention provides an extendable arm which is removably insertable into an irrigation pipeline of a centre pivot irrigation system which includes a central tower and at least one movable tower for carrying the pipeline. The arm comprises a first arm segment which is connectable at one end thereof to the irrigation pipeline; a second arm segment which is connectable at one thereof to the irrigation pipeline; and a connecting pipe extending between the first and second arm segments to enable uninterrupted fluid flow in the irrigation pipeline. The first and second arm segments are displaceable relative to each other between a retracted and extended position to alternate radial distance between the movable tower and the central tower.

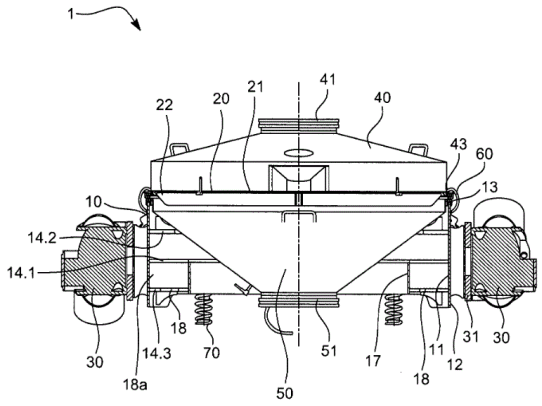


21: 2023/10638. 22: 2023/11/16. 43: 2024/05/17
51: H01M
71: AVL LIST GMBH
72: NEUBAUER, Raphael, PÖSCHL, Robert, HOFER, Marlies, REITER, Bernd, SCHLUCKNER, Christoph, MATHÈ, Jörg
33: AT 31: A 50384/2021 32: 2021-05-18
54: RECIRCULATION DEVICE FOR RECIRCULATING ANODE EXHAUST GAS AS RECIRCULATION GAS IN A FUEL CELL SYSTEM
00: -
The present invention relates to a recirculation device (10) for recirculating anode exhaust gas (AAG) as a recirculation gas (RG) from an anode section (120) of a fuel cell stack (110) of a fuel cell system (100), having a recirculation line (20) with an intake section (22) for fluid-communicating connection with an anode discharge section (124) of the anode section (120), wherein the recirculation line (20) has a first partial recirculation line (24), a second partial recirculation line (26) and a divider device (30) for dividing the recirculation gas (RG) between the two partial recirculation lines (24, 26), wherein the first partial recirculation line (24) has a first ejector device (40) for fluid-communicating integration into an anode supply section (122) of the anode section (120) and the second partial recirculation line (26) has a blower device (94) for fluid-communicating integration into the anode supply section (122) upstream of the first ejector device (40)



21: 2023/10648. 22: 2023/11/16. 43: 2024/05/16
51: B07B
71: VIBRA MASCHINENFABRIK SCHULTHEIS GMBH & CO.
72: SCHULTHEIS, Winfried
54: VIBRATORY SCREENER
00: -
Vibratory screener A vibratory screener (1), suitable for pharmaceuticals and food processing, comprising a screen carrier frame (10) having an inner circumference (11) and an outer circumference (12), a screen (20) for separation of solid particles extending horizontally within the screen carrier frame (10) and being vertically supported by the screen carrier frame (10), one or more vibration motors (30)

arranged on the outer circumference (12) of the screen carrier frame (10) and configured to generate a component of vibration in a direction (z) perpendicular to the screen (20), at least two internal annular disks (14.1, 14.2, 14.3) each having an inner rim and an outer rim, wherein each of said at least two internal annular disks (14.1, 14.2, 14.3) is attached to the inner circumference (11) of the screen carrier frame (10) by its outer rim, and which said at least two internal annular disks (14.1, 14.2, 14.3) are spaced apart from each other in parallel planes, and an inner sleeve (17) arranged within the sleeve carrier frame (10). The inner sleeve (17) is attached the inner rims of two (14.2, 14.3) of said at least two internal annular disks, wherein the upper internal annular disk (14.2) of said two internal annular disks and the inner sleeve (17) provide an unbroken surface whereas the lower internal annular disk (14.3) of said two internal annular disks is provided with openings (18) towards the outside environment. The apparatus (1) is able to process high throughputs and meets highest hygienic standards.



21: 2023/10653. 22: 2023/11/17. 43: 2024/05/17
51: H01G
71: Henan University of Urban Construction
72: DANG Liyun, ZHANG Shuaiguo, YANG Yilong, HU Jiyong, PENG Lansi, WANG Kun, ZHANG Qingyuan, GAO Yuan, LIU Mengjiao

54: PREPARATION AND APPLICATION OF DOPAMINE MODIFIED COATED ASPHALT-BASED CARBON SUPERCAPACITOR MATERIAL

00: -

The invention disclose a preparation and application of a dopamine modified coat asphalt-based carbon supercapacitor material, and belongs to that field of supercapacitors. The preparation method of the dopamine modified coated asphalt-based carbon material comprises the following steps: mixing asphalt with ammonium dihydrogen phosphate, and heating at 220-380 degrees Celsius for 2-3 h to obtain a preform; then heating the preform at 430-500 degrees Celsius for 4-6 h, and collecting gas phase components; cooling the gas phase components and collecting solid components; mixing the solid component with dopamine solution, reacting, and roasting to obtain the dopamine modified coated asphalt-based carbon material. The dopamine modified coated asphalt-based carbon material prepared by the invention is a core-shell structure nanoparticle, and the novel supercapacitor electrode material prepared by the dopamine modified coated asphalt-based carbon material has high stability and electrochemical performance, and has a good application prospect.

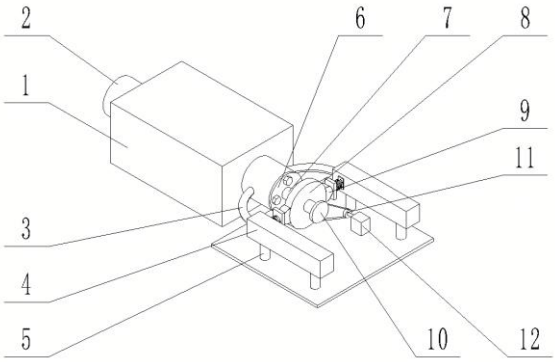
21: 2023/10654. 22: 2023/11/17. 43: 2024/05/17
51: C01B
71: Henan University of Urban Construction
72: DANG Liyun, YANG Yilong, ZHANG Shuaiguo, GUO Yan, PENG Lansi, JIN MengRu, WANG Kun, LIU Mengjiao, WU Yuhuan

54: DEVICE FOR PREPARING ASPHALT-BASED CARBON MATERIALS WITH HIERARCHICAL STRUCTURE

00: -

The invention diskloses a device for preparing asphalt-based carbon materials with hierarchical structure, which comprises a heating furnace, wherein a heating pipe penetrates through that heating furnace; a rotating shaft is rotatably connected in the heating pipe; a plurality of groups of clamping components are fixedly connected on the rotating shaft; the rotating shaft extends out of the heating pipe and is fixedly connected with a first pulley; the first pulley is connected with a second pulley through belt transmission, and the second pulley is fixedly connected with the output shaft of the motor; the motor is fixedly connected with the ground; the side wall of the heating pipe is symmetrically fixedly connected and communicated with a connecting pipe; one end of the connecting pipe far from the heating pipe is communicated with an air passage; and the air passage is fixedly connected with the ground. According to the

invention, the introduced gas fully contacts with the asphalt-based carbon material in a rotating manner, which is beneficial to the reaction and has high efficiency.

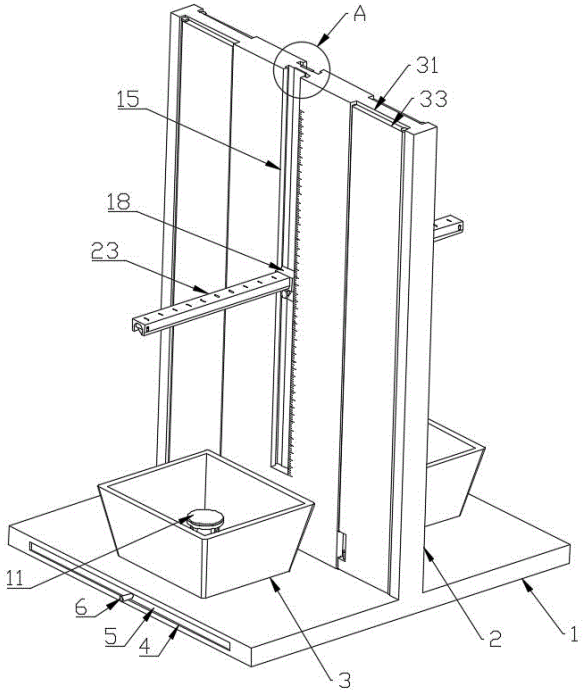


21: 2023/10657. 22: 2023/11/17. 43: 2024/05/17
51: G05B
71: Flower Research Institute, Yunnan Academy of Agricultural Sciences
72: Xiang Li, Qing Duan, Lan Ma, Wenwen Du, Wenjie Jia, Lulin Ma, Xiangning Wang, Guangfen Cui, Jihua Wang, Tianjiao Gu

54: A CULTIVATION CONTROL EQUIPMENT FOR ENHANCING THE FLOWER COLOR PHENOTYPE OF LILY BY APPLYING UV-B RADIATION

00: -

The invention relates to the technical field of vegetation cultivation, in particular to a cultivation control equipment for enhancing the flower color phenotype of lily by applying UV-B radiation. The invention comprises a cushion plate, and the top surface of the cushion plate is centrally formed and has a partition plate. The surface of the cushion plate is fixed with a cultivation basin for planting lilies, and the interior of the cushion plate is provided with a liquid storage bin. The surface of the cultivation basin is inserted with absorbent cotton core, and the absorbent cotton core extends into the liquid storage bin; the beneficial effects of the invention are as follows: The cultivation control equipment for enhancing the flower color phenotype of lily by using UV-B radiation. Two breeding basins are arranged on either side of the partition plate for growing two lilies. In addition, UV-B lamps and incandescent lamps were installed on both sides of the partition plate to simulate the effects of UV-B radiation and natural light on the activity of key enzymes in anthocyanin synthesis and regulatory gene expression of lily petals, respectively. And the lamp frame is fixed on the lifting block, and the height of the lamp is adjusted according to the growth adaptability of the lily. A visual comparison of the growth of two lilies grown on the same device.



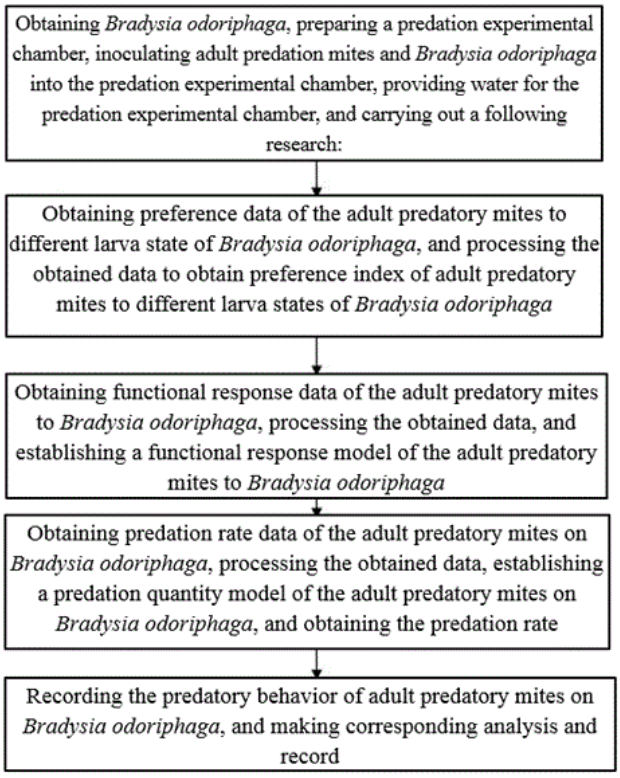
21: 2023/10658. 22: 2023/11/17. 43: 2024/05/17
51: A01N
71: Dezhou Academy of Agricultural Sciences, Anqiu Bureau of Agriculture and Rural Areas
72: WANG Hongdong, HAN Shuang, HAN Bing, LI Na

54: METHOD FOR RESEARCHING PREDATION EFFECT OF PREDATORY MITES ON BRADYSIA ODORIPHAGA

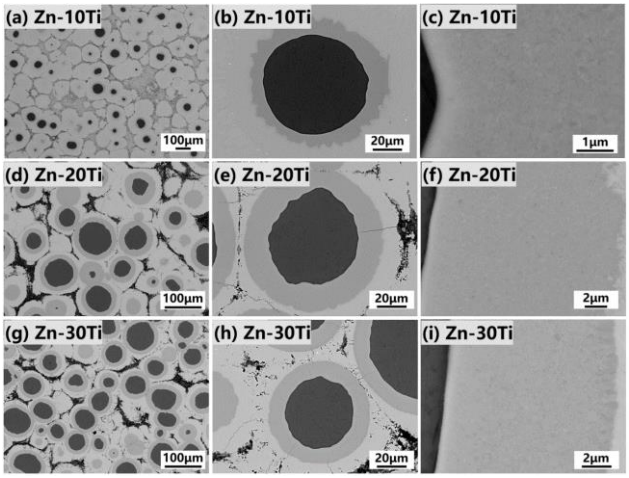
00: -

The invention discloses a method for researching predation effect of predatory mites on Bradysia odoriphaga, and relates to the technical field of plant protection. The predatory mites and Bradysia odoriphaga are put into the predatory experiment chamber to study the predatory effect, and the preference of the predatory mites to different states of Bradysia odoriphaga, the functional response of the predatory mites to Bradysia odoriphaga, the predatory amount of the predatory mites to Bradysia odoriphaga and the predatory behavior of the predatory mites to Bradysia odoriphaga are studied

emphatically. The predatory data of the predatory mites to Bradysia odoriphaga are obtained through pioneering design experiments, and the related data are processed to establish a predatory model, and the accuracy of the related model is verified by connecting with actual data. Once implemented, it will not only avoid food safety problems and environmental pollution, but also save manpower and material resources, and only needs to release predatory mites into adult mites appropriately.

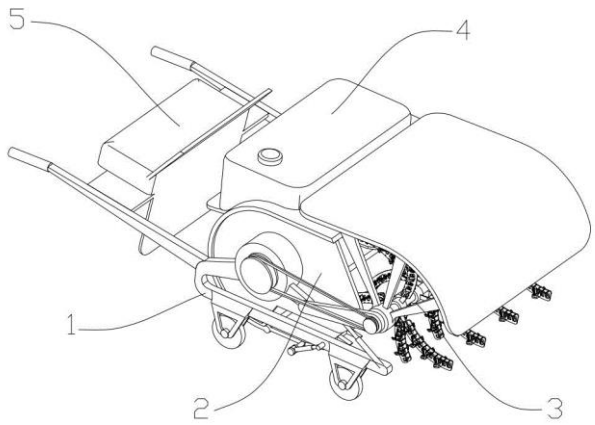


21: 2023/10659. 22: 2023/11/17. 43: 2024/05/17
51: C22C
71: ZHONGNAN HOSPITAL OF WUHAN UNIVERSITY
72: CHENG Bo, LI Yue, LI Chenglin, MA Li, WENG Xiuhong, ZHAO Siyu, LI Yanyun, YANG Fuhua
33: CN 31: 202310705637X 32: 2023-06-13
54: MEDICAL HIGH-STRENGTH AND LOW-ELASTIC ZINC-TITANIUM DEGRADABLE COMPOSITE MATERIAL WITH NANO CORE-SHELL STRUCTURE, AND PREPARATION METHOD AND APPLICATION THEREOF
00: -
The invention disclose a medical high-strength and low-elasticity zinc-titanium degradable composite material with a nano core-shell structure, a preparation method and application thereof, and belongs to that technical field of composite material. The zinc-titanium degradable composite material of the invention has a core-shell structure, good mechanical properties, good compactness and biodegradability, its hardness is higher than that of titanium and zinc, and its elastic modulus is close to that of human bone. The invention provides a preparation method of the material, which is simple in steps and convenient to prepare, and adopts a spark plasma sintering process to overcome the technical problem that the melting point difference between zinc and titanium is too large, which leads to difficult processing. When zinc-titanium degradable composite material is applied to metal implant materials, it can effectively solve the "stress shielding" effect after implantation and provide new ideas for the selection of implant materials.



21: 2023/10660. 22: 2023/11/17. 43: 2024/05/17
51: A01B
71: Yunnan Agricultural University
72: Jianhua Li
54: AN EFFICIENT MIXING DEVICE FOR SOIL REMEDIATION AGENT FOR ECOLOGICAL RESTORATION
00: -
The invention discloses an efficient mixing device for soil remediation agent for ecological restoration, which is characterized in that: it comprises: a bearing frame, a stirrer, a crusher, a liquid reservoir and a controller; the crusher is connected to the front end of the bearing bracket through the movement of the rocker arm, and the stirrer is connected to the tail end of the bearing frame by rotation. The liquid reservoir is fixed on the top of the stirrer, and the

controller is fixed on the tail of the bearing frame; the stirrer is provided with a liquid medicine nozzle, the infusion device is provided with a pump body, the pump body is connected with the nozzle through a catheter; by modifying the basic structure characteristics of the crushing teeth, the invention enhances the crushing degree of the whole teeth in the process of rotating crushing soil. That is, compared with the traditional crushing mechanism, the soil can be crushed more thoroughly; at the same time, the outer side of the crushing tooth is provided with a stopper block, on the one hand, to increase the overall crushing area. On the other hand, it can carry the soil in the direction of rotation, providing a part of the soil into the foundation for the subsequent mixing of the device.

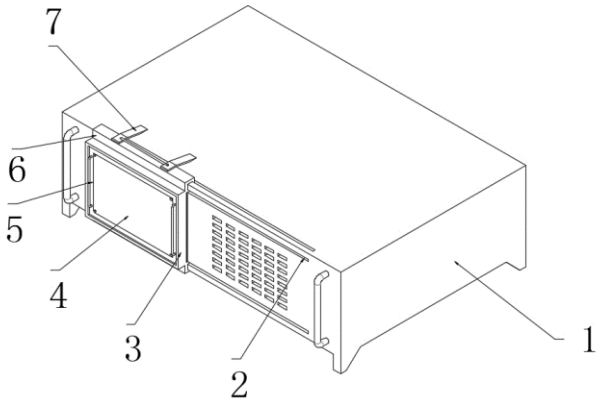


21: 2023/10661. 22: 2023/11/17. 43: 2024/05/17
51: G01D
71: Huainan Normal University
72: Xia Yang, Xiangwei Wang, Yang Zhao, Yuan Yuan

54: AN ANALYTICAL DEVICE AND METHOD APPLIED TO ENTERPRISE CARBON EMISSION REDUCTION

00: -

The invention relates to the technical field of an analysis device, in particular to an analysis device and method applied to enterprise carbon emission reduction. The invention comprises a carbon reduction analyzer, a sliding groove, an elastic plate, a driving rod, a positioning block, a frame, a limit cylinder, a adjusting groove, a spring, a guide rod, a mounting frame, a reinforcing bar, a sliding block, an assembly groove, a guard plate, a shell, a storage slot, and a brush plate; Its beneficial effect is: To protect the screen through the board, to avoid damage caused by collision or rubbing of foreign objects when it is not used or carried out. When the guard plate is impacted by external things, the bearing capacity of the guard plate is improved by strengthening the top holding of the rib. The sliding block moves in the adjusting groove to drive the mounting frame inward to displace the impact of external objects. The cushion of the force by the elastic top holding of the spring is used to reduce the impulse force of the guard plate, so as to improve the protective effect of the guard plate on the carbon emission reduction analyzer screen.



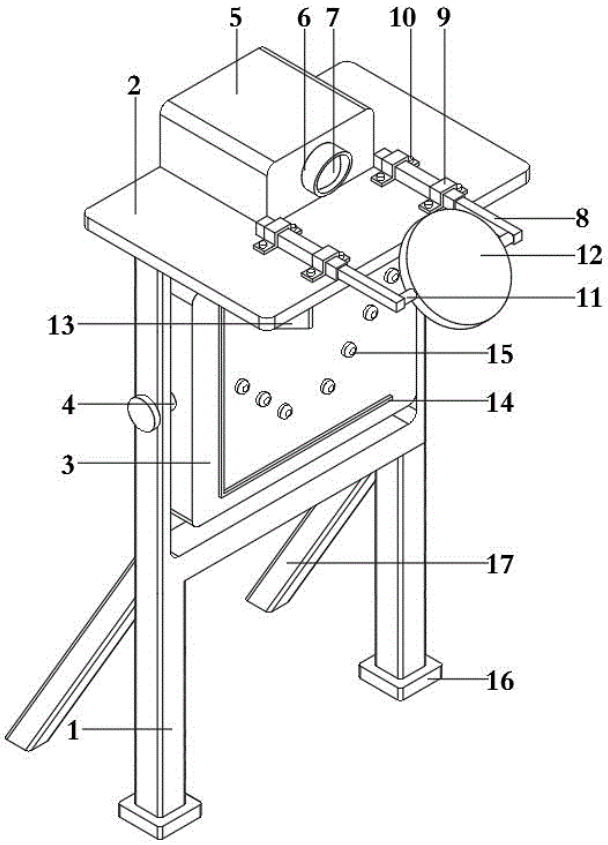
21: 2023/10670. 22: 2023/11/17. 43: 2024/05/17
51: G06Q
71: Taishan University
72: Hongrui Zhao

54: A PRACTICAL TRAINING PLATFORM AND AN ECONOMIC MANAGEMENT TEACHING SYSTEM

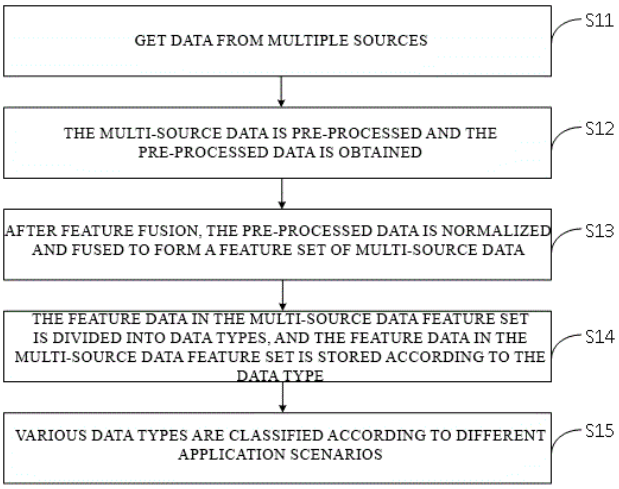
00: -

The invention relates to the technical field of teaching utensils, in particular to a practical training platform and an economic management teaching system. The invention comprises a supporting bracket, a supporting plate is installed on the top of the bracket, and a panel is connected in the bracket through a first rotating shaft. The top of the supporting plate is provided with an interactive projector, and the bottom of the supporting plate is provided with an image acquisition device; the interactive projector has a projection lens and dust cover directly in front of it, and two telescopic rods are arranged at the top of the supporting plate. The top of the telescopic rod is provided with a fixing plate, which is installed on the top of the supporting

plate through a fastening bolt. The opposite side of the two telescopic rods is provided with a second rotating shaft, and a mirror is installed between the second rotating shaft; the surface of the panel is provided with a coordinate block and an identification block, and the bottom of the bracket is provided with a supporting base. One side of the support is equipped with a diagonal brace; its beneficial effects are: it is convenient to compare the two groups of data before and after, save the data through the image acquisition equipment, it is convenient for teaching, it can improve the teaching efficiency and increase people's interest in learning.

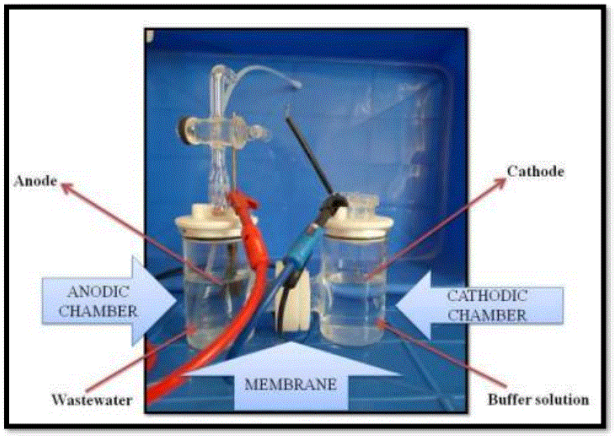


21: 2023/10672. 22: 2023/11/17. 43: 2024/05/17
51: G06K
71: NORTHWESTERN POLYTECHNICAL UNIVERSITY
72: Ji Wang, Yanning Zhang, Yang Qin, Lulu Xue
54: A SCENARIO-BASED MULTI-SOURCE DATA FUSION ANALYSIS METHOD, SYSTEM AND RELATED EQUIPMENT
00: -
The implementation method of the invention discloses a scenario-based multi-source data fusion analysis method, system and related equipment. It includes obtaining multiple sources of data; the multi-source data is pre-processed and the pre-processed data is obtained. After feature fusion, the pre-processed data is normalized and fused to form a feature set of multi-source data. The feature data in the multi-source data feature set is divided into data types, and the feature data in the multi-source data feature set is stored according to the data type. In the above way, by classifying and dividing multi-source data, it can help find data and improve the efficiency of data utilization.



21: 2023/10692. 22: 2023/11/20. 43: 2024/05/21
51: B01D
71: Saurabh Yadav, Dr. Suantak Kamsonlian, Dr. Karthick S, Dr. Shailendra Kumar Pandey, Dr. Sanjay Singh, Niharika Dutt, Dr. Rohit Kumar Singh
72: Saurabh Yadav, Dr. Suantak Kamsonlian, Dr. Karthick S, Dr. Shailendra Kumar Pandey, Dr. Sanjay Singh, Niharika Dutt, Dr. Rohit Kumar Singh
33: IN 31: 202311059272 32: 2023-09-04
54: A PROCESS FOR TREATMENT OF MUNICIPAL WASTEWATER AND GENERATION OF BIOELECTRICITY BY ELECTROCHEMICAL MEMBRANE BIOREACTOR
00: -
The present invention relates to treating wastewater that meets high quality standards for discharge or reuse necessitates the use of highly efficient wastewater treatment techniques. In the present invention, experiments have carried out to reduce the concentration level of biological oxygen demand (BOD), chemical oxygen demand (COD), and total dissolved solids (TDS) from the wastewater sample. Treatment of sample of a real municipal wastewater

collected from sewage treatment plant (STP) is carried out in an electrochemical membrane bioreactor (EMBR). The EMBR operated continuously for five days, and readings are taken at regular intervals. These experimental results conducted in EMBR that indicate reduction of BOD, COD, and TDS levels of up to 33.93%,32.78% and 30.11 %, respectively. Further, it observed that a current of magnitude of 0.00749 mA generated due to metabolic activities of bacteria present in municipal wastewater, which gradually decreased day by day due to the decay of bacteria

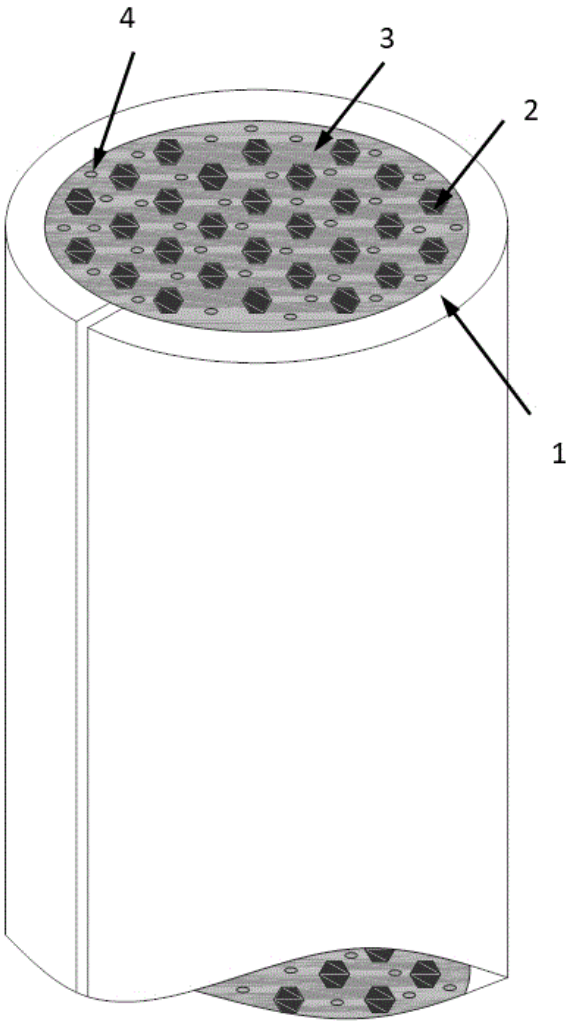


21: 2023/10695. 22: 2023/11/20. 43: 2024/05/17
51: B23K
71: Henan Mechanical & Electrical Vocational College
72: DU Quanbin, WANG Lei, ZHANG Zhikang, CUI Bing, ZHANG Liyan, DONG Guang, LI Ang, HUYAN Yongjiang, WANG Yinghua, LI Wei, SHEN Jun, ZHANG Jianhua, LIANG Jie, PENG Leyu
33: CN 31: 2023114352081 32: 2023-10-31

54: DIAMOND FLUX-CORED WIRE FOR ADDITIVE MANUFACTURING AND PREPARATION METHOD THEREOF

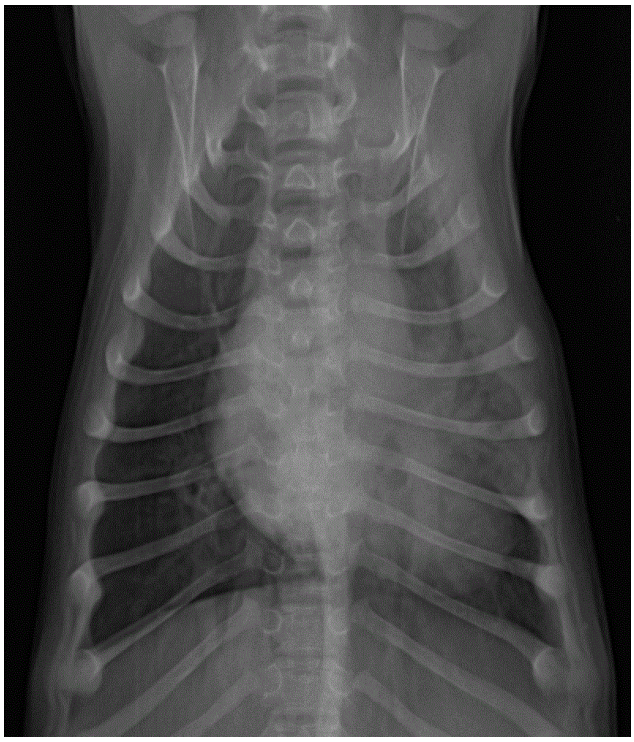
00: -

The invention relates to the technical field of additive manufacturing of diamond tools, in particular to a diamond flux-cored wire for additive manufacturing and a preparation method thereof. The diamond flux-cored wire for additive manufacturing includes brazing filler metal skin and diamond flux-cored; the brazing filler metal skin is wrapped on the surface of the diamond flux core; according to parts by mass, the diamond core consists of the following raw materials: 20-55 parts of surface modified diamond, 15-35 parts of brazing flux, 10-40 parts of metal additive and 1-5 parts of dispersant A; the material of the solder skin is nickel-chromium alloy or copper-tin alloy. When that diamond flux-cored wire material of the invention is use for adding material to manufacture a diamond tool, the diamond doe not suffer from thermal damage, the utilization rate is high, and the distribution state and concentration are easy to control; the diamond flux-cored wire material can adapt to a wide range of heat source forms (can be applied to arc additive, laser additive, plasma additive and other heat source forms); and the diamond tool prepared by adding material with the diamond flux-cored wire material has high quality and long service life.



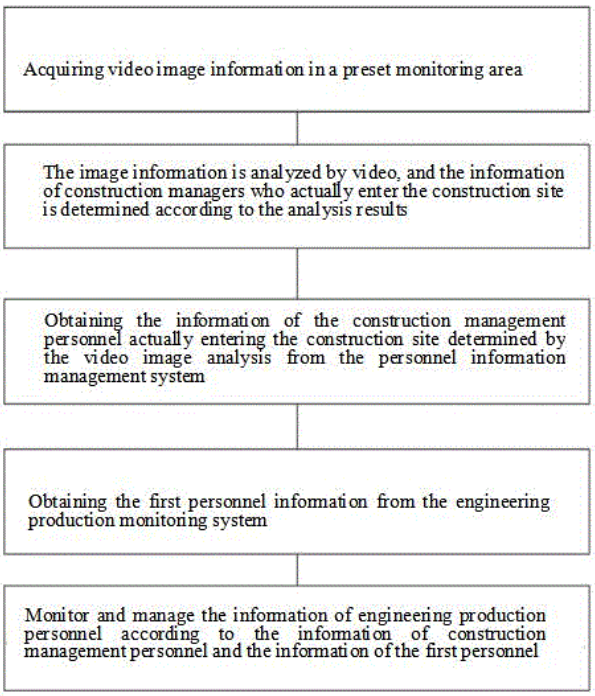
21: 2023/10696. 22: 2023/11/20. 43: 2024/05/21
51: A61K
71: Northeast Agricultural University, Sichuan Academy of Chinese Medicine Sciences

72: SHI Guangliang, CHEN Tiezhu, LIU Yiding, YAN Liangchun, SHAO Bing, ZHANG Lei, TAI Tiange, DONG Han, HAN Tianyu, LIU Zhaoyang, YANG Yu, FEI Shanshan, LIU Zhijun, LI Zhiyue, WANG Lulu, WANG Chen
33: CN 31: 2023114153181 32: 2023-10-27
54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING CHRONIC COUGH IN DOGS AND APPLICATION THEREOF
00: -
The invention discloses a traditional Chinese medicine composition for treating chronic cough in dogs and application thereof, and relates to the technical field of veterinary drugs. The traditional Chinese medicine composition comprises the following components in parts by weight: 8-16 parts of stewed kudzu root powder, 3-6 parts of celandine, 3-6 parts of smilax glabra, 3-6 parts of semen abutili, 3-6 parts of fructus broussonetiae, 3-6 parts of fried female silkworm moth, 2-4 parts of medicated leaven, and 2-4 parts of malt. The invention also provides the application of the traditional Chinese medicine composition in the preparation of medicines for treating chronic and stubborn cough in dogs. The traditional Chinese medicine composition provided by the invention is based on clearing liver and regulating qi, and has the effects of tonifying kidney and strengthening spleen, and can effectively relieve the clinical symptoms of dogs suffering from chronic and stubborn cough, promote the dogs to recover quickly and reduce the mortality rate.



21: 2023/10697. 22: 2023/11/20. 43: 2024/05/21
51: G06F
71: Henan University of Urban Construction
72: ZHANG Dali, LIU Lei, YIN Xupeng, LIU Yanli, JIE Chaoyang
54: INFORMATION MANAGEMENT METHOD AND SYSTEM FOR ENGINEERS
00: -
The invention discloses an information management method and a system for engineers, which comprises the following steps: acquiring video image information in a monitoring area; carrying out noise reduction pretreatment on video image information; analyzing the video image information after noise reduction, and determining the information of the construction managers who actually enter the construction site according to the analysis results; obtaining the information of the construction manager who actually entered the construction site determined by the video image analysis from the personnel information management system, obtaining the first personnel information from the engineering production monitoring system, and monitoring and managing the construction manager information according to the construction manager information and the first personnel information. By analyzing the video image, the construction manager can timely and accurately supervise and manage the

construction site, which facilitates the supervision and management in engineering construction and the rapid and efficient exchange of information.



21: 2023/10698. 22: 2023/11/20. 43: 2024/05/21
51: A01G
71: Shandong Academy of Agricultural Sciences
72: Dong Hongyun, Li Xinhua, Liu Hongyuan, Zhang Yan, Wang Yanjun, Qi Gaoxiang, Wang Nana
33: CN 31: 2023113867964 32: 2023-10-25

54: PLANTING METHOD FOR IMPROVING POPULATION DENSITY OF APOCYNUM VENETUM L. IN YELLOW RIVER DELTA BY USING REED STALKS

00: -

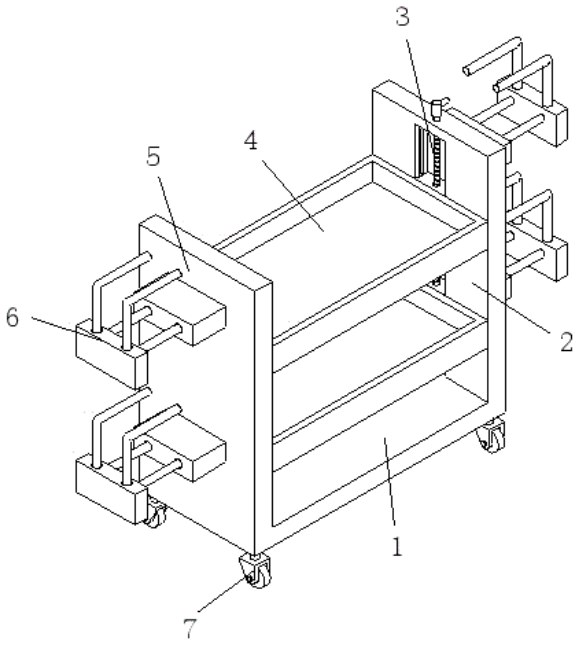
The invention discloses a planting method for improving the population density of Apocynum venetum L. in Yellow River Delta by using reed stalks, which comprises the following steps: collecting Apocynum venetum L. seeds with full particles in autumn, and cutting reeds to make reed curtains; soaking the seeds after delinting in the early March of spring until the germination rate is over 95 percent; ridging, wherein the ridge height is 15-20 cm and the ridge spacing is 30 cm, and the reed curtain is vertically buried on the ridge; irrigating the furrows until the soil and reed curtain on the ridges are saturated with water, evenly spreading the germinated Apocynum venetum L. seeds into the furrows, and covering the reed curtains between the furrows; opening the reed curtains after the Apocynum venetum L. grows to a plant height of 10-15 cm; after Yellow River Delta enters the rainy season in summer, removing the reed curtains on the ridge and dredging the drainage ditch. According to the invention, reed, a common growing plant in the Yellow River Delta region, is used to assist the planting of Apocynum venetum L., so that the survival rate is improved and the population density is improved.

21: 2023/10699. 22: 2023/11/20. 43: 2024/05/21
51: A63B
71: TaiShan University
72: Dayang Zhang

54: A STORAGE DEVICE FOR SPORTS EQUIPMENT

00: -

The invention discloses a storage device for sports equipment, belonging to the technical field of sports equipment. The bottom plate comprises a bottom plate, and a pulley is arranged at the lower end corner of the bottom plate, and a side plate i is arranged on the upper side of the bottom plate. The other side of the upper end of the bottom plate is provided with a side plate ii, and the side of the side plate i is provided with an adjusting mechanism for placing the spacing between shelfs. The invention provides a bracket shelf-spacing adjusting mechanism for placing laminates, which is convenient to adjust the spacing of placing laminates, so as to facilitate the placing of sports instruments of different sizes. Moreover, the mechanism is more convenient for the spacing adjustment mode of placing the laminates, and the use is also more convenient. The invention provides a fixing mechanism for a ball instrument, which is convenient for placing the ball instrument. And it has a better fixing effect on the ball instrument, so that it is not easy to be squeezed out from the top end, resulting in poor stability of the ball instrument placement.



21: 2023/10700. 22: 2023/11/20. 43: 2024/05/21
51: A01K
71: Amol Anand Phatak, Dr. V. Srinivasa Rao, Avinash Kashinath Lavnis, Vinayak Vidyasagar Pottigar, Abhijit Vijaykumar Mophare
72: Amol Anand Phatak, Dr. V. Srinivasa Rao, Avinash Kashinath Lavnis, Vinayak Vidyasagar Pottigar, Abhijit Vijaykumar Mophare

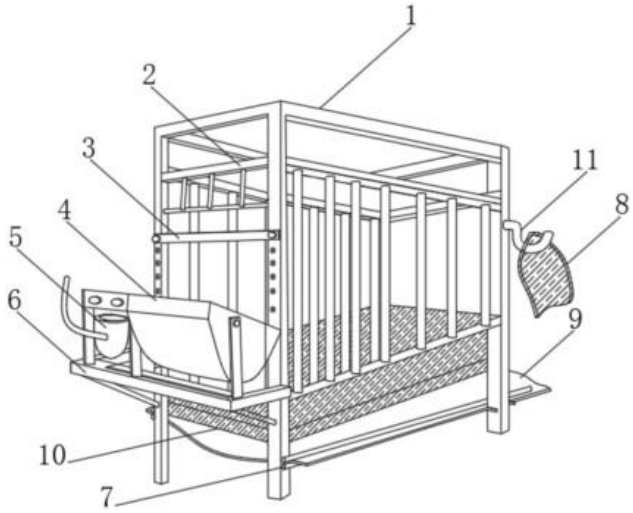
54: AN INNOVATIVE GADGET FOR CONTROLLING WANDERING ANIMALS TO ENHANCE ROAD SAFETY

00: -
Embodiments of the present invention provide a wandering cow controlling system that consists of sensors such as cameras and infrared detectors strategically placed along the roads. These sensors detect the presence of wandering cows within their range. The information collected by these sensors is then transmitted to a central control unit. The central control unit processes the sensor data and triggers appropriate actions to prevent accidents. It communicates with warning signs equipped with LED lights and audible alarms, placed at strategic locations along the road. When a wandering cow is detected, the warning signs are activated to alert drivers of the potential hazard ahead. Additionally, the control unit can interface with barriers or gates that can be automatically activated to restrict cow movement and prevent them from entering the road. By employing this device, the aim is to enhance road safety by providing timely warnings to drivers and implementing measures to control the movement of wandering cows, ultimately reducing the risk of accidents caused by encounters with these animals.

21: 2023/10703. 22: 2023/11/20. 43: 2024/05/21
51: A01K
71: CHIFENG INSTITUTE OF AGRICULTURAL AND ANIMAL HUSBANDRY SCIENCES
72: LIU, Zhiyou, HONG, Min, LAN, Xiangli, SUN, Yanan, WANG, Hongyu, HAN, Xiaohua, DONG, Jie, ZHAO, Yukai

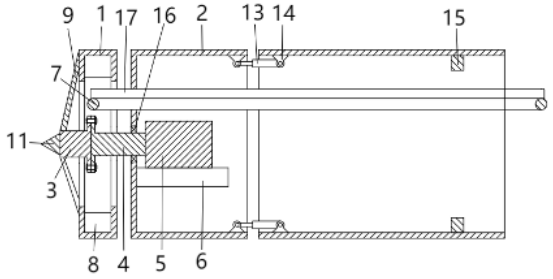
54: IMPROVED METABOLIC CAGE FOR SHEEP DIGESTION

00: -
Disclosed is a metabolic cage for sheep digestion, which comprises a cage frame body and a feeding fixing rod which is installed and fixedly connected on the lower side of the front end of the cage frame body. A urine collection baffle plate and a baffle limiting frame are used together to make the installation and fixation more convenient and firmer. A faeces collection bag is placed over the rump of the sheep and is used to realize the roles of separating and collecting faeces and urine. A square long plate is obliquely inserted on the baffle limiting frame. When the excrement is collected, the square long plate, which is coated with leakproof coatings has a U shape through a special material layer inside the square long plate, which is convenient for urine delivery and collection on the urine collection baffle plate.



21: 2023/10705. 22: 2023/11/20. 43: 2024/05/21
51: A01G
71: Institute of Horticultural Crops, Xinjiang Academy of Agricultural Sciences
72: Zhong Haixia, Wu Xinyu, Zhang Fuchun, Shi Wei, Zhou Xiaoming, Gao Ming, Wang Xu, Zhang Wen, Wu Jiuyun, Bai Shijian, Han Shouan, Wang Min, Zhang Chuan, Zhang Songlin, Vivek Yadav
54: METHOD FOR CULTIVATING GRAPE VARIETIES BASED ON IMPROVED EMBRYO CULTURE TECHNOLOGY
00: -
The present invention provides a method for cultivating grape varieties based on an improved embryo culture technology, and relates to the technical field of grape breeding. The method includes the following steps: taking ovules of grape fruit and culturing on an ovule medium before formation of degenerated seed embryos after cross pollination to obtain cultured ovules; culturing endosperm of the cultured ovule on an embryo germination medium to obtain embryos; culturing the embryos on a seedling medium to obtain grape seedlings; and grafting buds of the grape seedlings onto a grapevine to accelerate fruiting, and evaluating growth, fruiting, quality and resistance of fruiting tree. By adopting the method provided by the present invention, grape breeding time is shortened to 6-7 years.

21: 2023/10706. 22: 2023/11/20. 43: 2024/05/21
51: E21D; E21F
71: CHINA RAILWAY FIRST GROUP MUNICIPAL ENVIRONMENTAL PROTECTION ENGINEERING CO., LTD, CHINA RAILWAY FIRST GROUP CO., LTD
72: ZHANG, Zhenfa, NIU, Chao, NIU, Ben, LI, Dong, SONG, Yanhu, LIANG, Chi, WANG, Zhibin, YAO, Shuangfu, LIAN, Pengfei, TANG, Lixin, JIANG, Qiangji, LI, Jinbao, YANG, Zhenxu, GAI, Weichang, FAN, Yi, JING, Junwei
33: CN 31: 2023102835809 32: 2023-03-22
54: TAPERED SPIRAL TYPE PIPE JACKING MACHINE
00: -
The present invention discloses a tapered spiral type pipe jacking machine, which relates to the pipe jacking construction technology field and comprises: annular silo, middle-section shell, spindle head, spindle, electric motor, cutting device and conveying device; The annular silo is fixedly connected to the spindle head, the spindle head is connected to an end of the spindle and rotates together with the spindle, the other end of the spindle is inserted into the middle-section shell and connected to the output terminal of the electric motor, the electric motor is arranged in the middle-section shell, the cutting device is fixedly connected to the outside of the annular silo, and multiple conveying baffles are arranged slantly in the annular silo at the circumferential direction and used for conveying the soil from the bottom of the annular silo to its top so that the soil will fall; The conveying device is arranged right under the falling soil from the top of the annular silo and used for conveying the soil out. This invention has the advantages of a simple and compact structure and a high soil clearing efficiency.



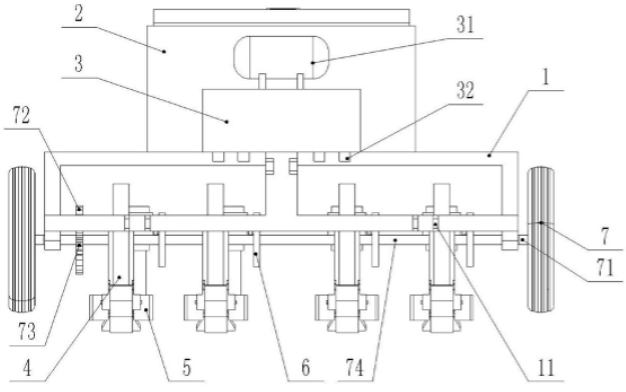
21: 2023/10707. 22: 2023/11/20. 43: 2024/05/21
51: A01B; A01C
71: INSTITUTE OF MODERN AGRICULTURAL ON YELLOW RIVER DELTA, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, MODERN AGRICULTURE RESEARCH CENTER OF YELLOW RIVER DELTA IN DONGYING

72: ZHAO, Zichao, WU, Qiong, MA, Changjian, SUN, Tao, GUO, Bing

54: DEVICE FOR BIOGAS SLURRY DEEP-APPLICATION IN SALINE-ALKALI SOIL

00: -

The present invention relates to a device for biogas slurry deep-application in a saline-alkali soil, including a rack. A three-point suspension bracket is attached to the front side of the rack, a liquid storage tank is attached to the rear portion of the upper side of the rack, and a pressurized distribution tank with a lower end attached to the rack is provided on the front side of the liquid storage tank. The liquid storage tank is connected to the pressurized distribution tank through a water suction pump. A pressurization device is connected to the upper portion of the pressurized distribution tank, and a plurality of liquid outlets are formed on the bottom of the pressurized distribution tank. A deep-application assembly, a ridging assembly, and a tamping assembly are attached to the rack in a front-to-back sequence, the deep-application assembly comprising a hollow rod and a plough body, the upper end of the hollow rod being attached to the rack and connected to the liquid outlets, and the lower end of the hollow rod being attached to the plough body. The device is small in structure and low in manufacturing cost, and can realize deep-application of biogas slurry, cover biogas slurry and compact a soil layer; additionally, the device can effectively prevent biogas slurry outlets from being blocked, and automatically block biogas slurry outlets when fertilization is suspended.

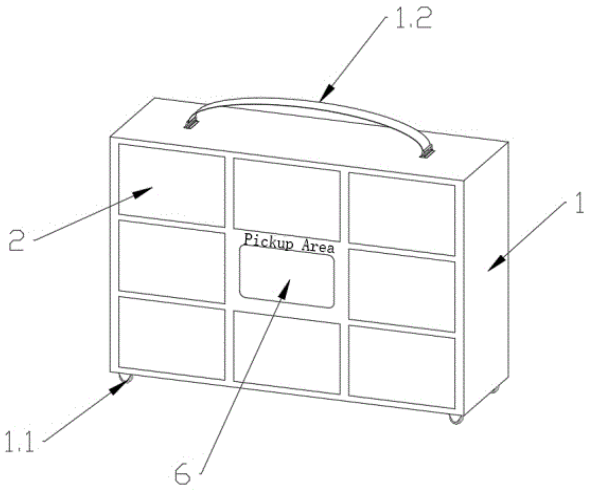


21: 2023/10708. 22: 2023/11/20. 43: 2024/05/21
51: B65D
71: Limin ZHENG
72: Limin ZHENG

54: SCAN CODE UNLOCK DELIVERY BOX

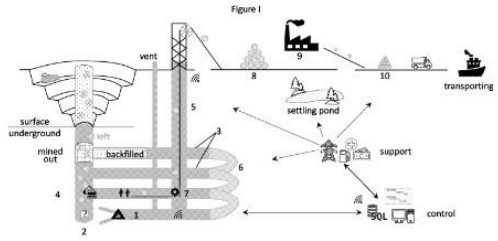
00: -

The present application discloses a scan code unlock delivery box, comprising a box body, several storage cabinets are arranged on the box body, front and back sides of the storage cabinets are respectively equipped with inventory doors and pickup doors that are hinged to them; one side of the storage cabinets is equipped with a smart lock, front and back of the box body are respectively equipped with an inventory display screen and a pickup display screen, and a controller is also arranged on the box body, the controller is electrically connected to the smart lock, the inventory display screen, and the pickup display screen. The delivery is placed in the storage cabinet through the stored QR code, and the delivery is taken out of the storage cabinet through the picked up QR code; and the takeout in the storage cabinet cannot be accessed during the delivery process. This method can effectively prevent the takeout from being opened and taken out by third parties during the delivery process, ensuring the safety of the delivery food. The present application further ensures the safety of delivery storage by setting inventory doors and pickup doors in the front and rear of the storage cabinets, the design is simple and clever, with high safety and strong practicality.

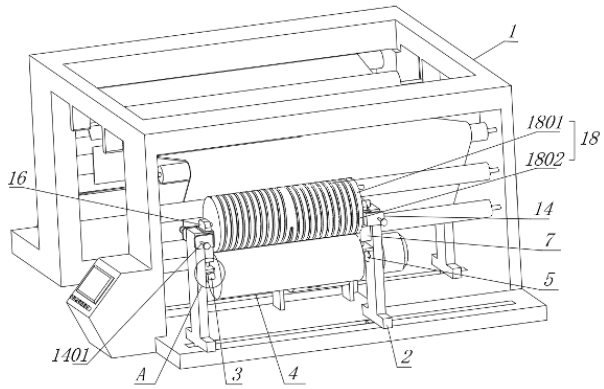


21: 2023/10715. 22: 2023/11/20. 43: 2024/05/31
51: G06Q
71: MINERP SOUTH AFRICA (PTY) LIMITED
72: MEGANNON, John Francis, LOUBSER, Andries George Hendrik, WOODHALL, Michael, VU KOVIC, Sinisa

33: ZA 31: 2021/03533 32: 2021-05-25
54: SYSTEM AND METHOD FOR CREATING, RANKING, INTEGRATING AND IMPLEMENTING PLANS IN A MINING AND PRODUCTION PROCESS
00: -
Automated, computer-assisted system for a mining and production process of natural resource and reserve with mining technical equipment on a commercial basis, the system comprising multiple sub-systems. The first sub-system is for use with disparate expert technical systems and applications to integrate the geometries and attributes at any specific spatial location in such natural resource or reserve to reasonably describe a collective, multi-disciplinary technical perspective of the resource or reserve in relation to such spatial location and allow tracking over time of changes in the logical status or physical state of the resource or reserve at that location. The second sub-system is for creating and exploring extraction plans for a given information about a specific resource or reserve automatically and within a job scheduler. The second sub-system having means for automatically creating possible extraction plans based on a specific resource or reserve; means for automatically ranking the plans within a specific extraction operational context; means for automatically integrating the ranked plans as an essential part of the technical mining and production; and means for automatically implementing such plans as an essential, intermediate and integrated part of the mining and production process with the use of associated mining technical equipment. The third sub-system is for planning, controlling and executing multi-facet technical activities over extended time periods, during life of site from concept and pre-feasibility assessment to closure of operation, and enterprise support processes, such as costs, concurrently with such activities, in a direct substantially real-time manner, based on such ranked and integrated extraction plans.



21: 2023/10729. 22: 2023/11/20. 43: 2024/05/21
51: B23K; H03K
71: HUANGSHAN ZHIDE NEW MATERIAL TECHNOLOGY CO., LTD
72: ZHANG, Songzhang, GUO, Biwei
33: CN 31: 202310641188.7 32: 2023-06-01
54: POF MULTI-STATION CUTTING UNIT
00: -
The present disclosure discloses a Polyolefin Shrink Film (POF) multi-station cutting unit, which includes a cutting unit body, wherein a supporter is provided at a front side of the cutting unit body, an outer side of a driving shaft is connected with a winding rod, an inner side above a conical gear set is connected with a unidirectional screw rod, a bearing plate is connected below an inner side of a guide cylinder, an adjusting plate is provided at an inner side of a connecting frame, an L plate is installed at an outer side of the adjusting plate, a connecting shaft is provided at an inner side of a connecting block, and a bubble eliminating mechanism which is capable of eliminating bubbles when a POF is cut and wound is provided at an outer side of the connecting shaft. According to the present disclosure, an adjusting component, a slider, a guide block, the L plate and a bidirectional screw rod can effectively adjust a bubble rolling column according to POFs with different thicknesses, so that the bubble rolling column and micro-threads on an outer side of the bubble rolling column are always in contact with an outer surface of the POF in a winding process with a most appropriate rolling force, and then bubbles can be efficiently rolled out of the wound POF.



21: 2023/10734. 22: 2023/11/21. 43: 2024/05/21
51: C12Q
71: Horticulture Research Institute, Sichuan Academy of Agricultural Sciences
72: YANG, Liang, CHANG, Wei, LI, Zhi, LI, Ju, MIAO, Mingjun, MA, Yanqin

54: PRIMER COMBINATION FOR SIMULTANEOUSLY DETECTING DISEASE-RESISTANT GENES TY-1, I-2 AND CF-9 OF SOLANUM LYCOPERSICUM AND MULTIPLEX PCR METHOD THEREFOR

00: -

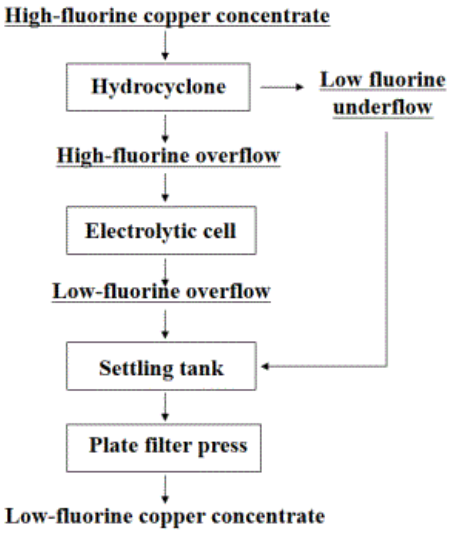
Disclosed are a primer combination for simultaneously detecting disease-resistant genes Ty-1, I-2 and Cf-9 of tomato and a multiplex PCR method therefor, which belong to the field of biotechnology. The multiplex PCR method includes: extracting genomic DNA thereof from tomato leaves; using the extracted genomic DNA as a template, and using primers of genes Ty-1, I-2 and Cf-9 to perform multiplex PCR reaction, and obtaining a PCR product; and detecting the PCR product by agarose gel electrophoresis, and determining genotypes of Ty-1, I-2 and Cf-9. The three pairs of molecular markers and the multiplex PCR method of the present invention can well distinguish genotypes of tomato materials after verification without false positives, and therefore, the method can not only greatly shorten detection time, but also can save a detection cost.

21: 2023/10735. 22: 2023/11/21. 43: 2024/05/21
51: C22B
71: Central South University
72: Weiping LIU, Junfeng CHENG, Ya CHEN, Shangyong LIN, Wei SUN
33: CN 31: 2023104571260 32: 2023-04-26

54: A METHOD FOR REDUCING FLUORINE CONTENT IN COPPER CONCENTRATE BY USING PARTICLE SIZE CLASSIFICATION - PULSE VOLTAGE

00: -

The present invention relates to a method for reducing fluorine content in copper concentrate by using particle size classification - pulse voltage. In this process, the high-fluorine copper concentrate is added to the hydrocyclone for classification, and the low-fluorine underflow and the high-fluorine overflow are obtained. The high-fluorine overflow enters the concentrate chamber in the electrolytic cell, The reinforcing agents are added to the concentrate chamber, the anode liquid is added to the anode chamber, the cathode liquid is added to the cathode chamber, and the intermediate liquid is added to the intermediate chamber. A pulsed power supply is used to apply a DC electric field between the anode and cathode to remove fluorine. Under the action of electric field, the negatively charged fluorine ion moves to the anode chamber through electromigration, and the fluorine moves to the cathode chamber as fluoride or other soluble ions through electrodialysis, and finally achieves the purpose of reducing the fluorine ion concentration in the high-fluorine overflow. low-fluorine copper concentrate is obtained from the overflow after defluorination and low-fluorine underflow after filtration. The beneficial effects of the invention are avoiding the loss of valuable metals caused by the depression of copper and gold by depressors in the traditional flotation defluorination process of copper concentrate, and reducing the impact of fluorine ions to the environment.

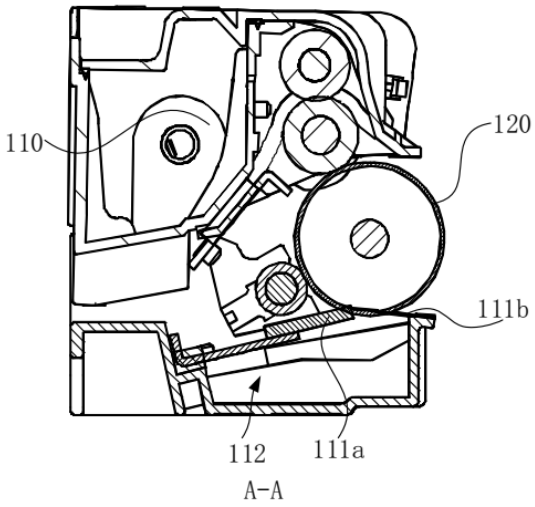


21: 2023/10737. 22: 2023/11/21. 43: 2024/05/21
51: G03G
71: ZHUHAI PANTUM ELECTRONICS CO., LTD.
72: SHAO, Zhe, XIA, Xiangchao
33: CN 31: 2022114628646 32: 2022-11-21

54: PROCESS CARTRIDGE AND POTENTIAL DETECTION PART

00: -

The present disclosure provides a process cartridge and a potential detection part. The process cartridge includes a cartridge body, a photosensitive drum rotatably installed at the cartridge body, and a potential detection part configured to detect an electrical signal on the image-forming region. The potential detection part includes a detection starting portion and a detection ending portion; the detection starting portion and the detection ending portion respectively correspond to a detection starting position and a detection ending position of a detectable region of the potential detection part along a first direction; a maximum distance along the first direction between orthographic projections of the detection starting portion and the detection ending portion on the image-forming region is L1; a length of the image-forming region along the first direction is L2; the first direction is in parallel with an axis direction of the photosensitive drum; and L1/L2>1/3.

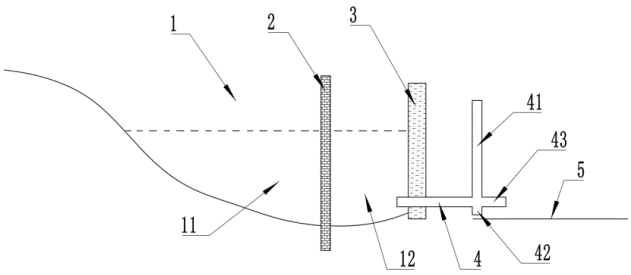


21: 2023/10739. 22: 2023/11/21. 43: 2024/05/21
51: C02F
71: Quzhou Beautiful Rural Construction Center
72: YIN, Xianyuan, ZHANG, Xin, XU, Xiao, HUANG, Qiaoling, FANG, Hui, WANG, Xiaolan, LI, Ronghui, ZHOU, Aiming, TENG, Lingling, DING, Liqun, XU, Youxiang, WU, Chenhao

54: WASTE TAILING SEWAGE PURIFICATION TREATMENT METHOD AND SYSTEM THEREOF

00: -

The present invention discloses a waste tailing sewage purification treatment method and a system thereof. The method includes the following steps: building permeable dams in a pool, wherein the permeable dams divide the pool into a sewage area and water purification areas, the permeable dams have holes for filtering heavy metal impurities, heights of the permeable dams are higher than the highest water level of the water body in the pool, and the water body can enter the water purification areas from the sewage area through the permeable dams to obtain filtered water in the water purification areas; arranging an irrigation pipe; and irrigating the farmland by the filtered water in the water purification areas. In the present invention, filtration of polluted water bodies can be achieved by using permeable dams, a stable water purification effect is achieved, and water quality requirements for farmland irrigation can be met.

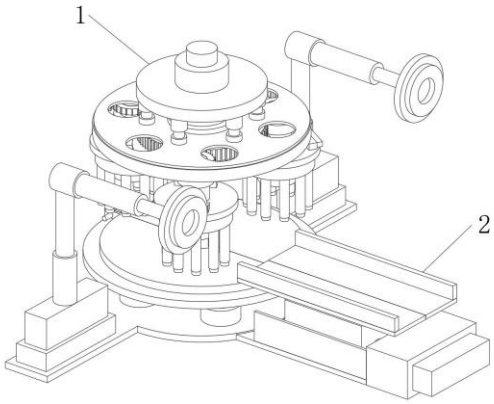


21: 2023/10740. 22: 2023/11/21. 43: 2024/05/21
51: B24B
71: Suzhou University, Jilin University, University of Science and Technology of China
72: Xiuyang Shan, Conghu Liu, Guang Zhu, Hengzheng Li, Yanyan Meng, Buyuan Guan, Gongming Wang

54: AN ELECTRODE MANUFACTURING POLISHING TREATMENT DEVICE

00: -

The invention relates to the technical field of an electrode manufacturing device, in particular to an electrode manufacturing polishing treatment device. The utility model comprises a production treatment structure and a transmission control structure, and the lower limit of the side end of the production treatment structure is connected with a transmission control structure. The production treatment structure includes a bearing base, a combination pallet, a connecting riser and a supporting sleeve. The upper end of the supporting sleeve plate is fixedly connected with a connecting riser, and the upper end of the connecting riser is fixedly connected with a combination tray. The center of the composite tray is fixed with a bearing base. The production treatment structure also includes a gear ring, a first gear plate, a second gear plate, a magnetic controller, a limit mounting base and an electrode. The lower end of the supporting sleeve plate is connected with a gear ring through the bearing limit, and the inner side of the gear ring is connected with a first gear plate. The inner meshing of the first gear plate is connected with the second gear plate. The lower end of the first gear plate is fixedly connected to the limit mounting base. Through the combination of the production treatment structure and the transmission control structure, the purpose of electrode manufacturing can be realized.

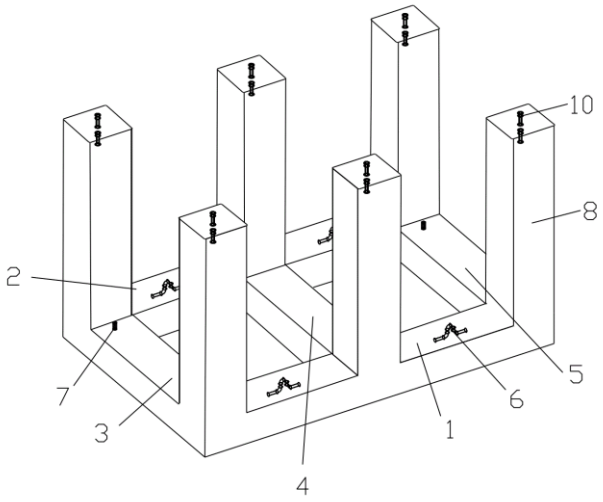


21: 2023/10741. 22: 2023/11/21. 43: 2024/05/21
51: E04H
71: China Railway First Group Track Engineering Co., Ltd., The First Engineering Bure CREC
72: LI, Shi Guo, JI, Xin Xin, LU, Yanan, WANG, Hu, WANG, Gangchan, DU, Bingze, MA, Chao, WU, Yi, WEI, Zhi Yuan, SONG, Qiang, CHEN, Runrun
33: CN 31: 202310620132.3 32: 2023-05-29

54: PREFABRICATED COLUMN FRAME PLATE FOR COLUMN-TYPE TRACK BED AND CONSTRUCTION METHOD THEREOF

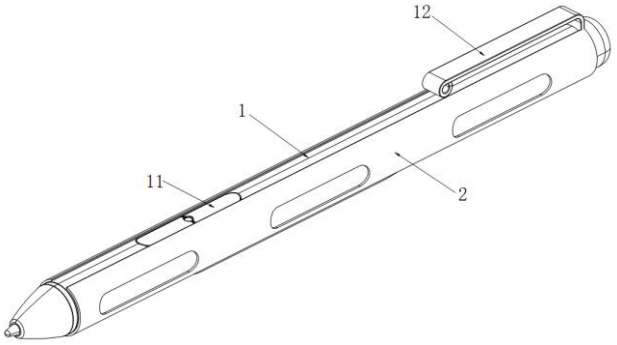
00: -

The present invention discloses a prefabricated column frame plate for a column-type track bed, which includes a bottom frame and prefabricated columns; the prefabricated columns are arranged perpendicular to the bottom frame, and the bottoms of the prefabricated columns are fixedly connected to the bottom frame; the upper part of the bottom frame is provided with measurement point positions and lifting rings, and, inside the prefabricated columns are provided cylindrical cavities which extend perpendicularly through the bottom surfaces of the prefabricated columns and the bottom frame. The present invention further discloses a construction method for a prefabricated column frame plate for a column-type track bed. In the present invention, the prefabricated columns and the bottom frame are integrally formed, which reduces the use of tooling, ensures construction safety, and improves construction efficiency and construction quality.



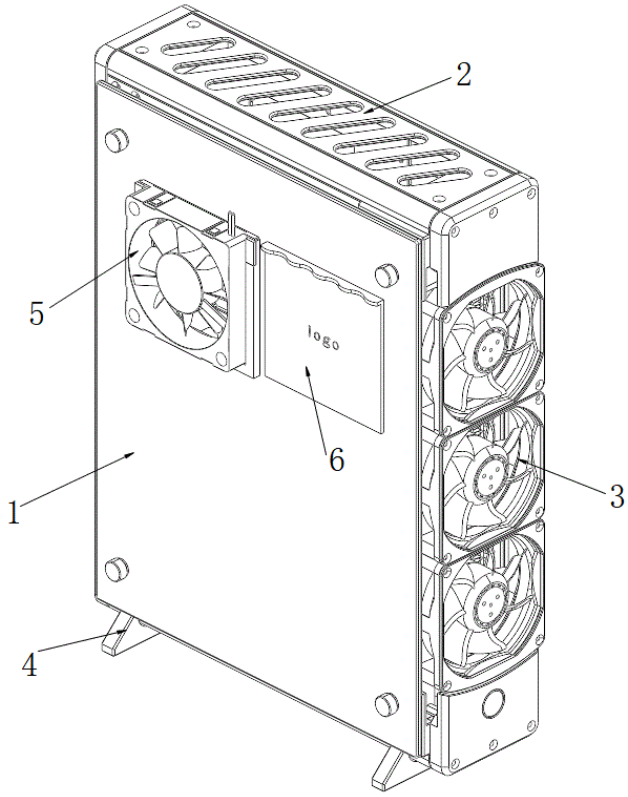
21: 2023/10743. 22: 2023/11/21. 43: 2024/05/21
51: G06F
71: WUHU CHUANYUE INFORMATION TECHNOLOGY CO., LTD.
72: MA, Ding
33: CN 31: 202320005387.4 32: 2023-01-03
54: WIRELESS CHARGING CAPACITANCE PEN
00: -

The present invention discloses a wireless charging capacitance pen, which relates to the technical field of capacitance pen. Comprise a capacitance pen body and a protective shell, wherein a pen tip and a pen cap are respectively arranged at two end of that capacitance pen body; a battery and a wireless charging module are arranged in the capacitance pen body; the protective shell is sleeved outside the capacitance pen body; the protective shell is a metal protective shell; and a magnetic attraction block is arranged at one side of the protective shell. Through the use of the metal protective shell, the present invention is convenient and simple, and has the function of wireless charging while meeting the requirements of beauty and firmness.



21: 2023/10744. 22: 2023/11/21. 43: 2024/05/21
51: G06F
71: WUHU GELAN ELECTRONIC TECHNOLOGY CO., LTD.
72: MA, Ding
33: CN 31: 202320265224.X 32: 2023-02-21
54: EFFICIENT HEAT DISSIPATION CHASSIS FOR COMPUTER
00: -

The present invention discloses an efficient heat dissipation chassis for a computer, and relates to the technical field of computer chassis. Comprises a chassis body, a top plate and a bottom plate respectively arranged at the upper part and the lower part of the chassis body, and side plates arranged at both sides of the chassis body. The invention uses a fan to assist heat dissipation, and the fan adopts a USB interface, which can be connected with the power supply of the computer case or externally connected with other power supplies. Secondly, the external fan does not occupy the internal position of the chassis body, nor does it cause the interior of the chassis body to be bloated, which can save the internal space while playing a good role in heat dissipation. Secondly, the fan is used for heat dissipation, which is lower in cost and safer.

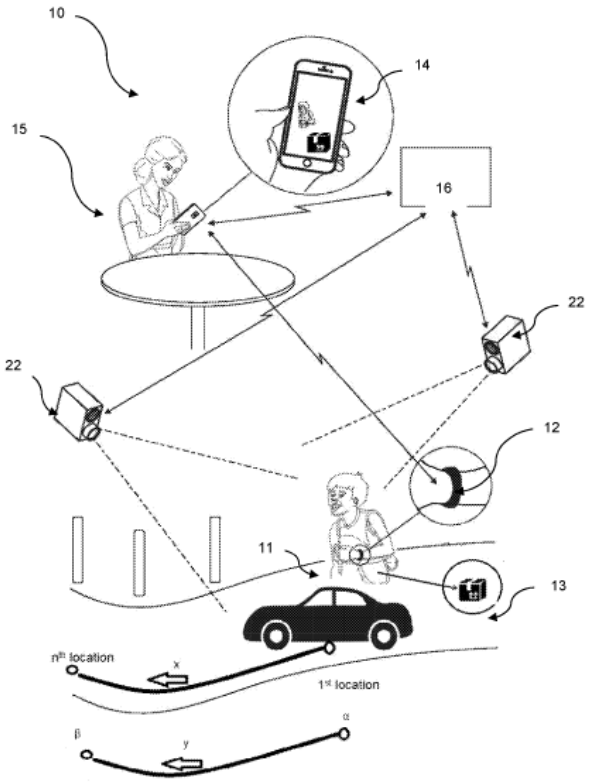


21: 2023/10752. 22: 2023/11/21. 43: 2024/05/21
51: G06Q
71: VAN DE MERWE, Christiaan Hendrik Gert
72: VAN DE MERWE, Christiaan Hendrik Gert
33: ZA 31: 2021/04303 32: 2021-06-23

54: PACKAGE TRANSPORTATION HANDLING SYSTEM AND METHOD

00: -

A package transportation handling system is disclosed as well as a method of linking up a package sender (15) to a transporter (11) travelling a route x from a first location to an nth location, wherein the transporter (11) indicates to the transportation handling system that the transporter (11) is available to convey at least one package (13) of the sender (15), which package (13) requires conveyance along a route y, being from a point A, at or in proximity to the first location, to a point B, at or in proximity to the nth location, during travel from the first to the nth location. The method incorporates software instructions permitting a suitable interrogation module to interrogate routes x and y and disaggregate data about the transporter (11) in view of matching a package sender (15) with an appropriate transporter (11)



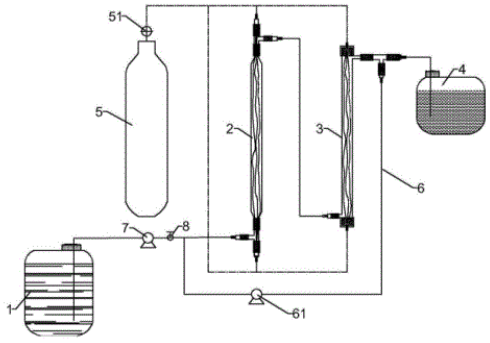
21: 2023/10773. 22: 2023/11/22. 43: 2024/05/22
51: C02F
71: Guilin University of Technology
72: LI, Haixiang, CHEN, Bo, DING, Wanying, JIANG, Minmin, ZHENG, Junjian, ZHANG, Yuanyuan, DONG, Kun, LIN, Hua, ZHANG, Wenjie, JIN, Yue, ZHANG, Xuehong
33: CN 31: 202211704919.X 32: 2022-12-29

54: HYDROGEN-BASED MEMBRANE BIOFILM REACTOR SYSTEM AND METHOD FOR TREATING 4-BROMOPHENOL IN TERTIARY INDUSTRIAL WASTEWATER

00: -

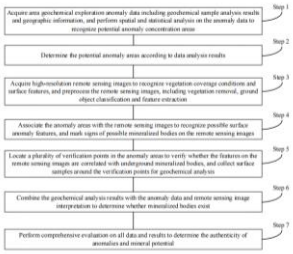
Provided is a hydrogen-based membrane biofilm reactor system and a method for treating 4-bromophenol (4-BP) in tertiary industrial wastewater. In the system provided by the present invention, a first hydrogen-based membrane reactor (2) and a second hydrogen-based membrane reactor (3) are placed vertically in parallel, which improves the reaction efficiency of the hydrogen-based membrane reactors. When the system of the present invention is used for treating 4-BP in tertiary industrial wastewater, 4-BP comes into sufficient contact with hydrogen-based biofilms in the first hydrogen-based

membrane reactor and the second hydrogen-based membrane reactor, so that hydrogen autotrophic reducing bacteria can reduce high-concentration 4-BP into a non-toxic product to achieve the efficient, green and safe removal of 4-BP, thereby greatly reducing the economic cost. Further, the structural arrangement of the second hydrogen-based membrane reactor simplifies filament operations and improves the working efficiency.



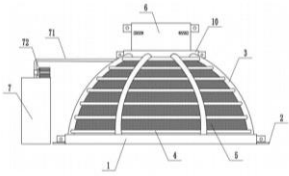
21: 2023/10774. 22: 2023/11/22. 43: 2024/05/22
51: A01G
71: TaiShan University
72: CHEN, Xiaofeng, LI, Shan, WANG, Qiumei, YU, Hongyang
54: GRAFTING SURVIVAL METHOD OF CHIONANTHUS RETUSUS THICK BRANCHES
00: -
This method innovatively uses thick branches as the scion and uses the traditional grafting methods such as bark grafting and slotting grafting to graft chionanthus retusus seedlings with an intact root system onto the cut chionanthus retusus thick branches, so that they can heal and grow into one, supplying nutrients for thick branches to grow into chionanthus retusus tree bonsai with thick branches after cultivation and maintenance. After trimming and artistic processing, the production process of chionanthus retusus tree bonsai blank is completed to achieve the purpose of rapid shaping of chionanthus retusus tree bonsai, and the production cycle is about 2 years to 3 years. The main materials are abandoned branches trimmed from chionanthus retusus or thick branches reasonably cut from chionanthus retusus big seedlings in the nursery land, and 1- to 2-year-old chionanthus retusus seedlings with an intact root system.

21: 2023/10775. 22: 2023/11/22. 43: 2024/05/22
51: E21B
71: Shihezi University, Urumqi Center for General Survey of Natural Resources, CGS
72: DUAN, Xingxing, HAN, Baohua, LIU, Xiaolong
54: GEOCHEMICAL EXPLORATION METHOD FOR VERIFYING MINERAL ANOMALIES IN COVERAGE AREA
00: -
Disclosed in the present invention is a geochemical exploration method for verifying mineral anomalies in a coverage area. The method includes the following steps: step 1,acquiring geochemical exploration anomaly data; step 2, determining potential anomaly areas; step 3, acquiring high-resolution remote sensing images; step 4, associating the anomaly areas with the remote sensing images to recognize possible surface anomaly features; step 5, locating a plurality of verification points in the anomaly areas to verify whether features of the remote sensing images are correlated with mineralized bodies; step 6, combining the geochemical analysis results with the anomaly data and remote sensing image interpretation to determine whether the mineralized bodies exist; and step 7, performing comprehensive evaluation on all data and results to determine mineral potential. The present invention reduces interference to an ecological environment and is more suitable for the sustainable development principle.



21: 2023/10776. 22: 2023/11/22. 43: 2024/05/22
51: A01G
71: Shanxi Forestry and Grassland Science Research Institute
72: WU, Jing, ZHANG, Caihong, HE, Qi, ZHOU, Yufeng, ZHANG, Xibin, LIU, Xin, HAO, Yanping
54: FOREST TREE SUPPORT DEVICE
00: -
The present invention discloses a forest tree support device, and relates to the technical field of forest tree support devices. The forest tree support device

includes two symmetrically arranged semicircular support bases, where a plurality of telescopic rods are hinged to each of the support bases, cross bars are arranged between two of any adjacent telescopic rods, a protection area is formed between the telescopic rods and the cross bars, a plurality of elastic protective nets are fixedly arranged in the protection area, at least one spray head is arranged on each of the cross bars, one end of each of the telescopic rod is hinged to a support plate, first arc-shaped plates are arranged at the top of the support plate, and a support structure is arranged on each of the first arc-shaped plates.

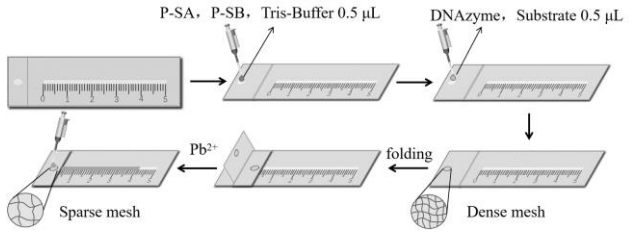


21: 2023/10777. 22: 2023/11/22. 43: 2024/05/22
51: G01N
71: Beijing Information Science and Technology University
72: Yansheng Li, Guowei Gao, Lei Qin

54: PAPER-BASED BIOSENSOR DEVICE AND METHOD

00: -

The invention belongs to the field of biosensor, in particular to paper-based biosensor device and method. The paper-based biosensor comprises a capillary channel and a biosensitive unit, and the material of the capillary channel is paper; The readout signal of the paper-based biosensor is a process of capillary flow; The biosensitive unit is placed on one side of the capillary channel and is used to regulate the behavior of capillary flow. The paper-based biosensor provided by the invention uses intelligent molecules as valves to control the capillary flow process. Capillary channel is used as signal display to realize visual quantitative detection of target. The paper chip sensor not only has the characteristics of simple operation, fast, accurate, intuitive and strong specificity, but also has low cost and is easy to carry. It has broad prospects for home diagnosis, bedside diagnosis, and applications requiring instant detection.

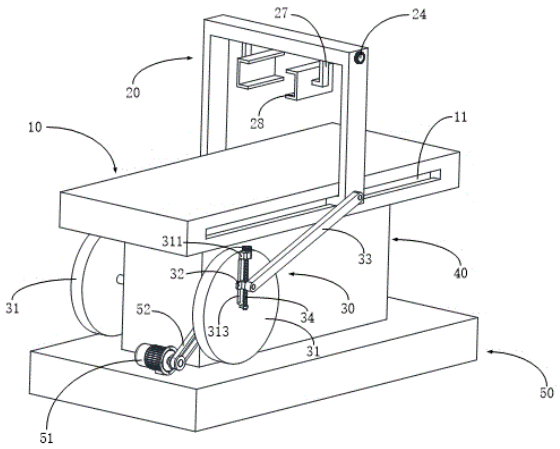


21: 2023/10778. 22: 2023/11/22. 43: 2024/05/22
51: A61G
71: Minhang Hospital, Fudan University
72: Mei Liu, Fei Pan, Dongqing Zhang, Mengting Hu, Jiaqi Gan

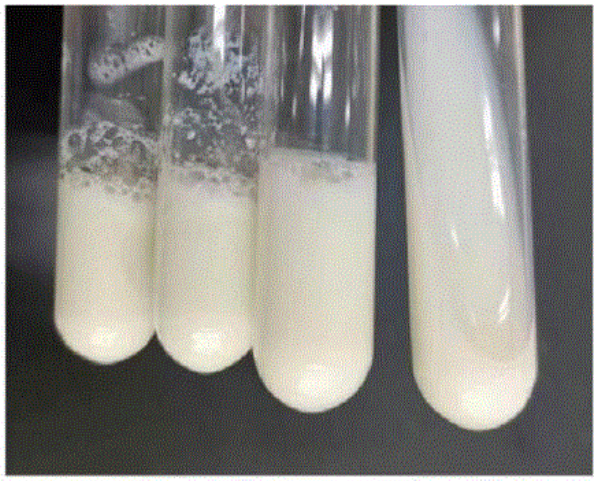
54: AN INTEGRATED DEVICE FOR CLINICAL DIAGNOSIS AND TREATMENT IN GENERAL MEDICINE

00: -

The invention relates to the technical field of medical equipment, in particular to an integrated device for clinical diagnosis and treatment in general medicine. The invention is provided with a reciprocating adjusting component, which realizes the reciprocating movement of the supporting frame through the reciprocating movement of the connecting rod driven by a disc, so as to drive the diagnostic instrument to perform diagnostic scanning on the patient. The position of the fourth sliding block on the disc can be adjusted by rotating the second threaded rod, so as to adjust the distance of the reciprocating movement of the connecting rod. The diagnostic scanning distance of the diagnostic instrument can be adjusted according to the parts that the patient needs to scan for diagnosis. This can avoid the waste of medical resources due to too long scanning distance or too short scanning distance to achieve good diagnostic results; in addition, the bed body is arranged into a movable bed body. The first motor drives the bed body to move horizontally on the supporting column until the diagnostic testing site of the patient is adjusted below the diagnostic instrument. Thus, diagnosis and treatment can be carried out according to the specified site of the patient, which makes the diagnostic effect of the diagnostic treatment device reach the established expectation.

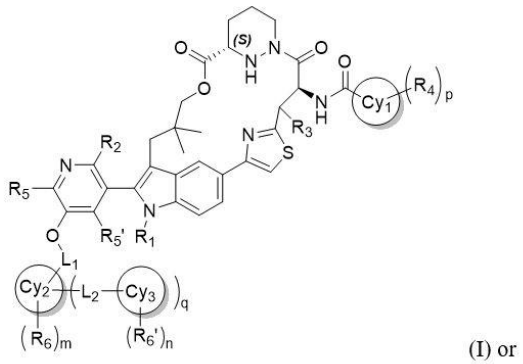


21: 2023/10781. 22: 2023/11/22. 43: 2024/05/22
51: C12N
71: Shandong Academy of Agricultural Sciences
72: Fei Bian, Shousong Yue, Youfeng Zhu, Deyuan Ma
33: CN 31: 202311362332.X 32: 2023-10-20
54: A MILK-CLOTTING ENZYME (MCE) DERIVED FROM EXIGUOBACTERIUM SP. P-6 AND ITS APPLICATIONS IN MILK SOURCE BIOACTIVE PEPTIDES PREPARATION
00: -
The present invention pertains to the field of microbial enzymes technology, specifically addressing a novel Milk-clotting Enzyme (MCE) from a bacterium Exiguobacterium sp. P-6. The MCE exhibits excellent milk-clotting ability with the Milk-clotting Activity (MCA) of 330.2 ± 7.23 SU/mL. Meanwhile the MCE provided in this invention boasts a low protease activity (PA) value (15.41 U/mL) and a high MCA/PA ratio (21.43), ensuring optimal cheese production without excessive substrate hydrolysis and bitter peptides generation, which suggests potential applications of this MCE. Furthermore, when applied to milk coagulation, the MCE can hydrolyze skimmed milk casein to produce antioxidant peptides. The DPPH radical scavenging activity (RSA) was measured at 75.32% when the hydrolysate concentration was 200 μg/mL, while the DPPH RSA of an equivalent concentration of vitamin C was 90%. This invention presents a novel enzyme resource for preparation of bioactive peptides from milk sources.

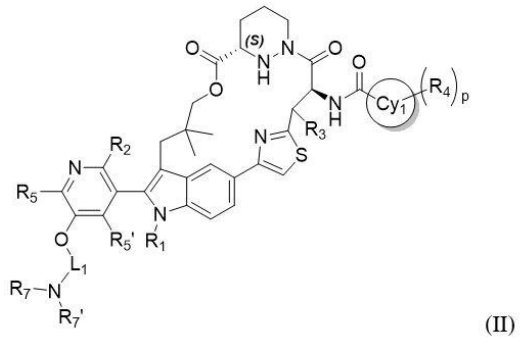


After Chymosin treatment Milk

21: 2023/10783. 22: 2023/11/22. 43: 2024/05/22
51: A61K
71: ADLAI NORTYE BIOPHARMA CO., LTD.
72: LV, Meng, CHEN, Yufeng, LI, Feifan, LIU, Canfeng, CHENG, Wanli, CHEN, Kaixuan, WU, Peng, YANG, Han, JIN, Chaofan, SUN, Zhao, LIU, Shuaishuai, HE, Nanhai
33: CN 31: 202211508623.0 32: 2022-11-29
54: A PAN-KRAS INHIBITOR COMPOUND
00: -
The present invention relates to a pan-KRAS inhibitor compound represented by formula (I) or formula (II) and a pharmaceutical composition containing the compound, and the use of compound of formula (I) or formula (II) for preventing and/or treating cancer, tumor, inflammatory disease, autoimmune disease or immune-mediated disease.



(I) or



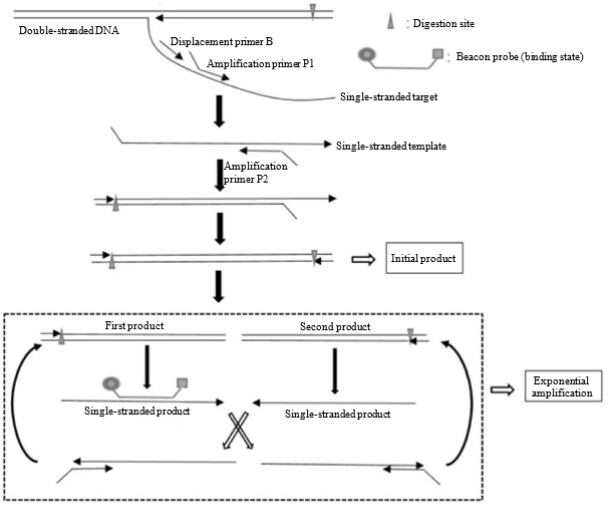
(II)

21: 2023/10785. 22: 2023/11/22. 43: 2024/05/22
51: C12Q
71: SHANGHAI BIOGERM MEDICAL TECHNOLOGY CO., LTD. BEIJING BRANCH, SHANGHAI BIOGERM MEDICAL TECHNOLOGY CO., LTD.
72: LI, Chunyan, ZHU, Zhaokui, ZE, Baichen
33: CN 31: CN202110733555.7 32: 2021-06-30

54: METHOD FOR ISOTHERMAL AMPLIFICATION OF NUCLEIC ACID TARGET SEQUENCES

00: -

The present invention provides a method for isothermal amplification of nucleic acid target sequences. The method is suitable for double-stranded DNA, single-stranded DNA, and single-stranded RNA, and comprises a combined reaction of nickase and strand displacement enzyme. In double-stranded DNA and single-stranded DNA detection, three primers and one probe are used, and in single-stranded RNA detection, three primers and one probe may be used, or two primers and one probe may be used. The probe is a molecular beacon, which does not degrade during an amplification process and is only used for specifically binding to a target fragment to provide a fluorescent signal to ensure the specificity of the reaction. In the present invention, the beacon probe that does not overlap with the primers in a binding region on a target sequence is used to determine the result in real time; the beacon probe has high specificity in binding to the target sequence; and it is unnecessary to open a tube after the reaction to further prevent generation of false positives. The reaction is carried out at a constant temperature and consumes short time, and the detection can be completed within 8 minutes, which is more in line with POCT detection requirements.



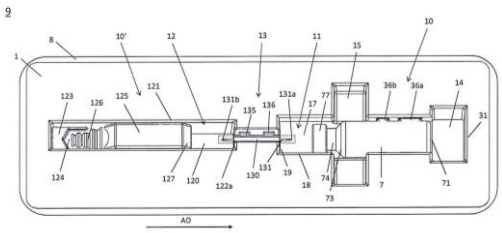
21: 2023/10794. 22: 2023/11/22. 43: 2024/05/22
51: A61J
71: KAIRISH INNOTECH PRIVATE LTD.
72: DADACHANJI, Rishad Kairus, POTDAR, Pratul Prakash, PATEL, Keyurkumar Arvindbhai, CHUDASMA, Krupal Ashokbhai
33: IN 31: 202121033506 32: 2021-07-26

54: APPARATUS AND SYSTEM FOR DRUG RECONSTITUTION BY LIQUID TRANSFER

00: -

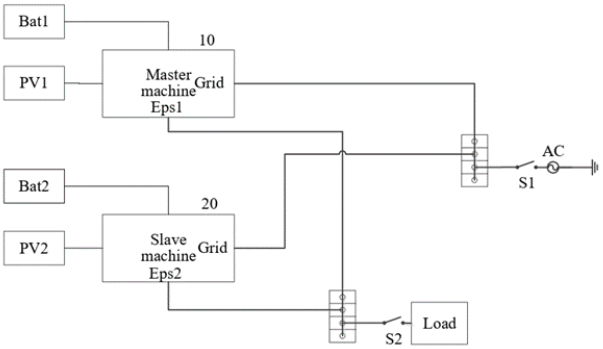
An apparatus for combining a first liquid component stored in a container and a second component stored in a vial by means of negative pressure is disclosed. A tray has a vial cavity for accommodating the vial and a container cavity for accommodating the container. A dual-ended transfer needle with two opposite needle tip is provided for establishing a fluid communication between the vial and the container. The transfer needle is fixedly held at the tray at an intermediate needle holding portion between the vial cavity and the container cavity. The vial cavity is configured for guiding a movement of the vial along an axial direction from an intermediate position, in which the first needle tip is not engaged with the vial towards the transfer position. The

container cavity is configured for guiding a movement of the container along the axial direction from an intermediate position towards the transfer position.

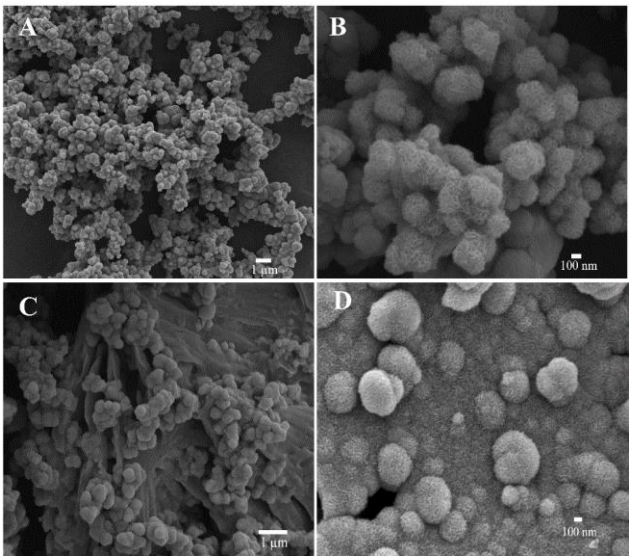


21: 2023/10795. 22: 2023/11/22. 43: 2024/05/22
51: C04B
71: CHRYSO
72: BONAFOUS, Laurent, BOUSTINGORRY, Pascal
33: FR 31: 2105469 32: 2021-05-26
54: IMPROVED WORKABILITY RETENTION IN LOW-CLINKER HYDRAULIC COMPOSITIONS
00: -
The present application concerns the use of a molecule producing an aqueous solution exhibiting a dispersive portion of more than 25%, for improving workability retention in a hydraulic composition based on a hydraulic binder composition comprising aluminosilicates and a maximum of 10 % by weight of clinker preferably from 0 to 10 % by weight of clinker.

21: 2023/10812. 22: 2023/11/23. 43: 2024/05/23
51: H02J
71: SUNGROW POWER SUPPLY CO., LTD.
72: JING, Zhen, TAO, Tinghuan, MENG, Hao, XU, Jincheng, WANG, Xu
33: CN 31: 202310740240.4 32: 2023-06-20
54: SYSTEM OF MACHINES CONNECTED IN PARALLEL, AND METHOD FOR TRANSITION BETWEEN ON-GRID MODE AND OFF-GRID MODE
00: -
A system of machines connected in parallel and a method for controlling transition between an on-grid mode and an off-grid mode are provided. A master machine and a slave machine each are an inverter or a power converter. On-grid ports of the master machine and the slave machine are connected to a grid. Off-grid ports of the master machine and the slave machine are connected, for supplying a load. In transition from the on-grid mode to the off-grid mode, the master machine switches from a current source mode to a voltage source mode based on amplitude and phase of voltage with which the system is off a gird, and the slave machine senses voltage at the off-grid port of the slave machine in amplitude and phase, and switches from the current source mode to the voltage source mode based on the sensed voltage. No high-speed communications involved in the transition.

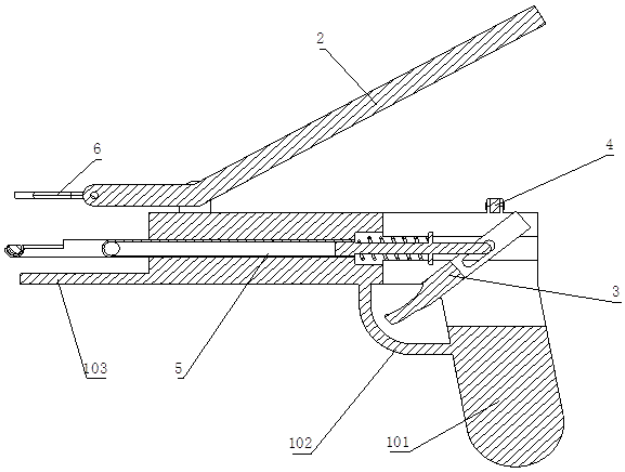


21: 2023/10813. 22: 2023/11/23. 43: 2024/05/23
51: G01N
71: HAINAN NORMAL UNIVERSITY
72: SUN Wei, LI Xiaoqing, LIU Tao, WANG Lisi, ZHANG Zejun, ZHANG Siyue, XU Shiguan, LUO Shuchang
33: CN 31: 2023105531487 32: 2023-05-17
54: MOLYBDENUM DISULFIDE/BLACK PHOSPHORENE COMPOSITE MATERIAL, PREPARED ELECTROCHEMICAL SENSOR AND APPLICATION THEREOF
00: -
The invention relates to a molybdenum disulfide@black phosphorene (MoS2@BP) composite material, a prepared electrochemical sensor and an application thereof, and belongs to the technical field of electrocatalytic analysis and detection. MoS2@BP composite material is prepared by the liquid phase stripping method and hydrothermal method, which is used to modify horseradish peroxidase to construct the electrochemical enzyme sensor, and is used for detecting glyphosate and electrocatalytic hydrogen peroxide. The composite material prepared by the invention has larger effective area, special morphology and better conductivity, can improve the sensitivity and service life of the sensor, and has simple preparation process, sensitive detection and good measurement effect.



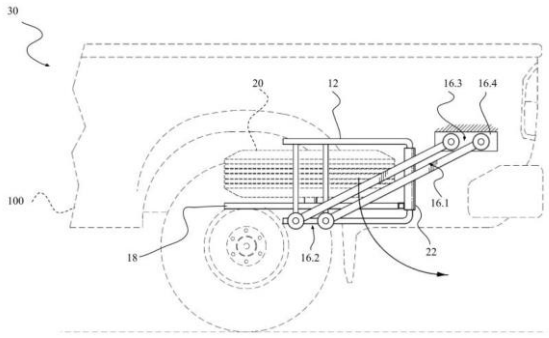
21: 2023/10814. 22: 2023/11/23. 43: 2024/05/23
51: A61D
71: Qiqihar Medical University
72: Zhiping XIE
33: CN 31: 202322969491.8 32: 2023-11-02
54: A RAT ORAL CAVITY DILATOR
00: -

The disclosure provides a rat oral cavity dilator, comprising: an installation block, wherein one end of the installation block is fixedly provided with base plate; a lever, wherein a middle part of the lever is hinged with the installation block; an upper pull rod, wherein a position of the upper pull rod corresponds to that of the base plate, two ends of the upper pull rod are respectively connected to one end of the lever adjacent to the base plate through a connecting rope. Beneficial effects of this disclosure are that: the use of the lever facilitates the opening of the upper jaw of rats, making the operation process more convenient. Compared to manually opening the upper jaw, the oral dilator improves the safety of the operation process and prevents rats from biting operators.



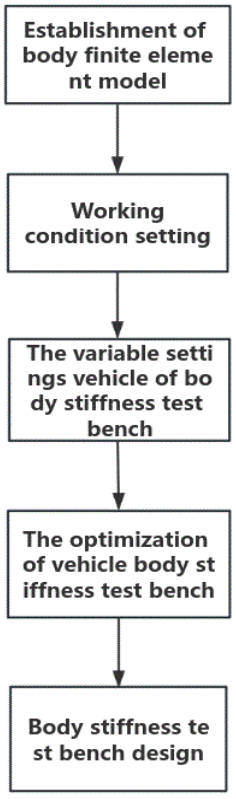
21: 2023/10815. 22: 2023/11/23. 43: 2024/05/23
51: B60R; B62D
71: VORSTER, Barend Johannes Martunis, KERSTEN, Jan Franz
72: VORSTER, Barend Johannes Martunis, KERSTEN, Jan Franz
33: ZA 31: 2022/12777 32: 2022-11-24
54: SPARE WHEEL HOLDER
00: -

A spare wheel holder having a frame suspended from an underside of a vehicle by a linkage attached to the vehicle for lowering the frame and displacing the frame along a longitudinal axis of the vehicle, and a spare wheel support being pivotally attached to the frame for swinging the spare wheel clear of the underside of the vehicle to gain ease of access to the spare wheel.



21: 2023/10817. 22: 2023/11/23. 43: 2024/05/23
51: G01M
71: Hunan University
72: Zhaohui HU
54: A DESIGN METHOD OF BODY STIFFNESS TEST BENCH BASED ON HYBRID META-MODEL
00: -

The invention relates to a design method of body stiffness test bench based on hybrid meta-model, which belongs to the technical field of body stiffness test bench. By integrating the finite element model of the white vehicle body and the finite element model of the white vehicle body stiffness test bench based on Hyperworkers software, the model is constructed. The working condition setting is completed by torsional stiffness calculation and bending stiffness calculation; the variable setting of the body stiffness test bench: the variable includes the freedom variable and the length design variable of the vertical support rod at the front and rear ends of the bench; then the body stiffness test bench is optimized; finally, the structure of the body stiffness test bench is designed. The invention effectively improves the test accuracy of the stiffness test bench and verifies it, and provides a new solution path for the optimization design of the test bench for the vehicle or component system.



21: 2023/10819. 22: 2023/11/23. 43: 2024/06/07
51: G06Q
71: DIVISION X (PTY) LTD
72: HURDEEN, Rikash Ramrajh, DELATE, Bryan, UNSER, Evan
33: ZA 31: 2022/09636 32: 2022-08-30

54: COMPUTER-IMPLEMENTED METHOD OF SUPPORTING A FARMER IN AGRICULTURAL ACTIVITIES

00: -

The invention relates to a computer-implemented method of supporting a farmer in agricultural activities. The computer-implemented method includes the steps of: (i) storing data that pertain to agricultural activities; (ii) obtaining input data from a plurality of farmers; (iii) storing the input data; (iv) retrieving the input data; (v) processing the input data to assign a grade to each of the plurality of farmers and their respective agricultural activities; (vi) storing the grades; (vii) retrieving the aforementioned data; (viii) processing the data through a machine learning model to obtain extrapolated output data that pertain to a specific agricultural activity; and (ix) transmitting the extrapolated output data to a connected device of one of the farmers, wherein the extrapolated output data provides support to the farmer in achieving a higher grade the specific agricultural activity.

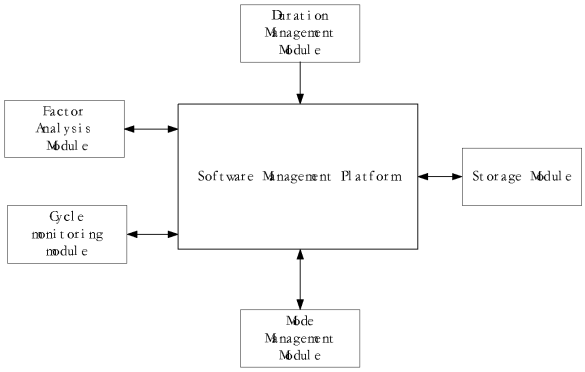
21: 2023/10820. 22: 2023/11/23. 43: 2024/05/23
51: H04L; H04W
71: QINGDAO HANSA CUSTOM FURNITURE CO., LTD.
72: Xiang GAO, Kebin QI, Qinglong LIU
33: CN 31: 202310939806.6 32: 2023-07-28

54: VISUALIZED ASSEMBLY-TYPE FULL DECORATION SERVICE MANAGEMENT SYSTEM

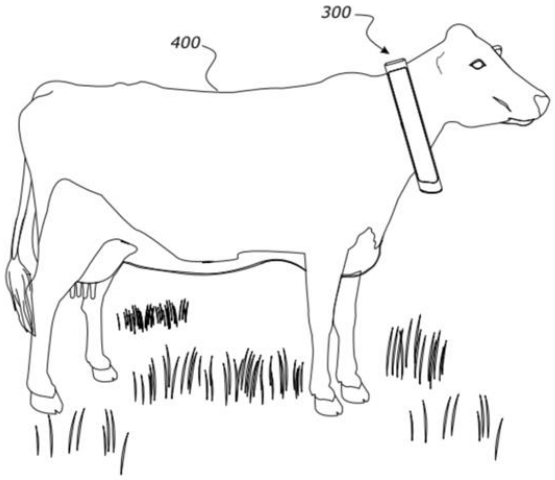
00: -

The present invention provides a visualized assembly-type full decoration service management system including a software management platform, communicating with a duration management module, a factor analysis module, a cycle monitoring module, a mode management module and a storage module. The present invention marks the assembly-type full decoration projects to be managed and analyzed for construction duration as management objects. A delay threshold is obtained from the storage module, and the delay duration is compared with the delay threshold; the management object is marked as a timely object or a delayed object through the comparison result. The present invention manages and analyzes the construction progress of the assembly-type full decoration service, obtains the delay duration through numerical calculations of

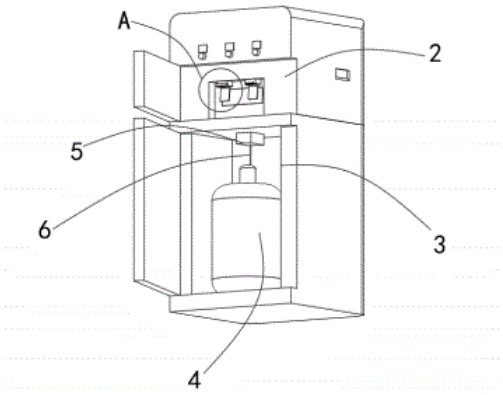
the planned duration and the actual delivery duration, and carries out timely factor analysis in case of abnormal construction efficiency.



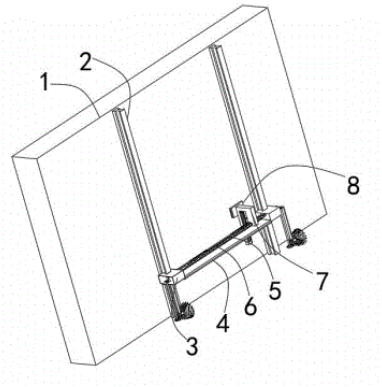
21: 2023/10822. 22: 2023/11/23. 43: 2024/05/23
51: H05C; A01K; G01R; H01F; H01G; H02M; H03K
71: HALTER USA INC.
72: SARGAZIKOOSHEH, Masoud
33: AU 31: 2021901583 32: 2021-05-26
33: AU 31: 2021221500 32: 2021-08-24
54: ELECTRICAL STIMULUS CIRCUIT
00: -
The present invention relates to a remotely triggered improved electrical stimulus circuit to be worn by cattle which is lightweight and can store voltage lower than what is to be supplied to an animal. Known cattle electrical stimulus collars may be heavy, use a lot of energy, and not supply a consistent electrical stimulus. The present electrical stimulus circuit utilises feedback loops to allow the use of high tolerance lightweight capacitors, and/or cool down periods to utilise a highly inefficient transformer running fully saturated.



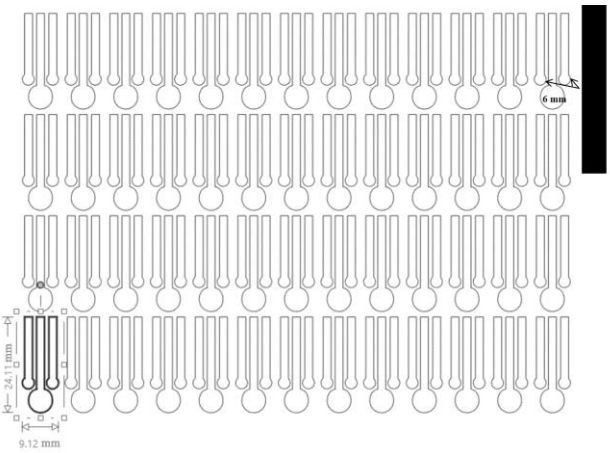
21: 2023/10840. 22: 2023/11/24. 43: 2024/05/27
51: A47J
71: Dongguan University of Technology
72: WANG, Ben, LV, Qihui
33: CN 31: 2023113936146 32: 2023-10-25
54: ENVIRONMENTAL-FRIENDLY WATER DISPENSER
00: -
Disclosed is an environmental-friendly water dispenser, belonging to the technical field of drinking water equipment. The environmental-friendly water dispenser includes a main body of water dispenser. A water taking groove is formed in the top of the main body of water dispenser, a mounting groove is formed in the inner wall of the water taking groove, a water outlet pipe is mounted inside the mounting groove, a valve is arranged inside the water outlet pipe, handles connected the valve are elastically connected inside the main body of water dispenser on each side of the water outlet pipe, and a dustproof box is arranged on the inner wall of the mounting groove out of the water outlet pipe. According to the novel environmental-friendly water dispenser, water is prevented from dropping onto the ground, so the environmental health is protected, and water can be also prevented from dropping onto a user's hands.



21: 2023/10841. 22: 2023/11/24. 43: 2024/05/27
51: E02D
71: Dongguan University of Technology, Harbin Institute of Technology, Shenzhen (Science and Technology Innovation Research Institute of Harbin Institute of Technology, Shenzhen)
72: LV, Qihui, YAO, Zhaoyue, WANG, Ben
33: CN 31: 2023114022113 32: 2023-10-26
54: RIVER SLOPE CLEANING DEVICE
00: -
The present invention relates to the field of water conservancy equipment and discloses a river slope cleaning device. The river slope cleaning device includes a first guide structure arranged on a slope in a slope direction of the slope; a floating member slidably connected to the first guide structure and capable of floating on the surface of river water; a linear driving device arranged on the floating member; and a cleaning mechanism connected to the cleaning mechanism to drive the cleaning mechanism to move in the length direction of the floating member. The river slope cleaning device provided by the present invention, which replaces the manual work, can clean the slope, so the manpower is saved effectively.

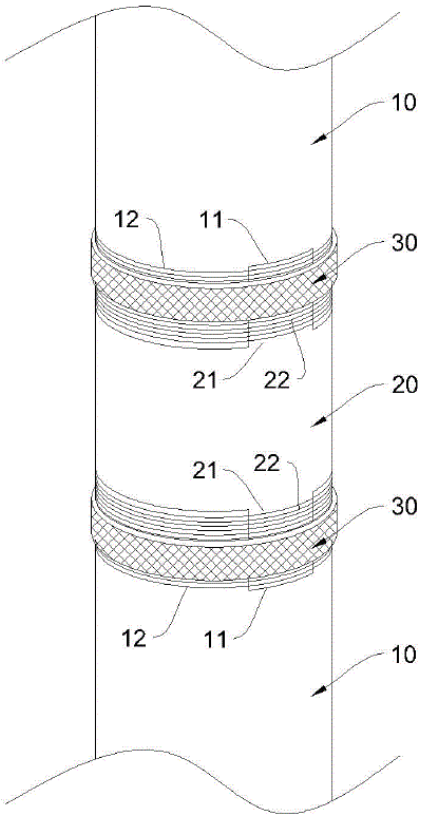


21: 2023/10842. 22: 2023/11/24. 43: 2024/05/27
51: H01M
71: HAINAN NORMAL UNIVERSITY
72: SUN Wei, AI Yijing, HAN Xiao, LIU Tao, WANG Lisi, FU Wanting, HU Xiaojuan, ZHANG Dan
33: CN 31: 2023104331854 32: 2023-04-21
54: PREPARATION AND APPLICATION OF IRON-DOPED CARBON NITRIDE AND CARBON NANOTUBES COMPOSITE MATERIAL MODIFIED ELECTRODE
00: -
The invention belongs to the technical field of preparation of flexible electrochemical sensors and hydrogen peroxide analysis, in particular to a preparation method and application of an iron-doped carbon nitride and carbon nanotubes composite material modified electrode. The modified electrode is used as a sensitive element of an electrochemical sensor to detect hydrogen peroxide. The sensor is simple to prepare with good stability, and it is capable of sensitive detection of a concentration range of 10.0 micromoles - 20.0 micromoles of H2O2 with a sensitive detection and a detection limit as low as 0.038 micromole. The sensor is applied to the detection of actual human serum samples with good detection results.



21: 2023/10844. 22: 2023/11/24. 43: 2024/05/27
51: G01C
71: Henan University of Urban Construction
72: DING, Leixiang, LIANG, Zhansheng, LIU, Juan
54: SURVEYING AND MAPPING MARKER POST FOR ENGINEERING SURVEYING AND MAPPING
00: -
The present application provides a surveying and mapping marker post for engineering surveying and mapping, including rod pieces, a connecting rod, and

fixing rings. End portions of the rod piece are provided with first threads, and peripheries of the end portions of the rod piece are arranged with clamping grooves. End portions of the connecting rod are provided with clamping blocks corresponding to the clamping grooves, and a peripheral surface of the clamping block is provided with a second thread which connects to the first thread. The fixing ring is slidably sleeved on the connecting rod and is in a screwing connection with the first thread and the second thread. By optimizing and improving the existing surveying and mapping marker post, the present application adds the connecting rod, which can use the snap-fit of the clamping block and the clamping groove to connect the adjacent two rod pieces.

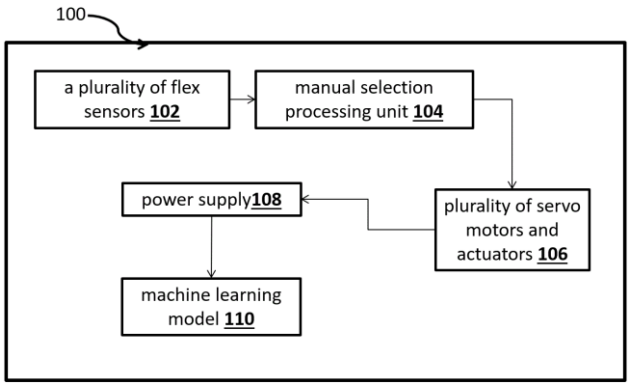


21: 2023/10845. 22: 2023/11/24. 43: 2024/05/27
51: A61H
71: Prof Manasa K R, Prof Kanmani B S, Dr Gayathri K M, Dr Ravinder Singh Kuntal, Dr Pramod Kumar Naik, Dr Arun Gopu
72: Dr Arun Gopu, Prof Manasa K R, Prof Kanmani B S, Dr Gayathri K M, Dr Ravinder Singh Kuntal, Dr Pramod Kumar Naik

54: A ROBOTIC GLOVE SYSTEM FOR HEALING USING MUDRA THERAPY

00: -

The present disclosure relates to robotic glove system for healing using mudra therapy. The aim of the proposed system is to reduce stress and other mental illness by using mudra therapy. The system comprises: a plurality of flex sensors, a raspberry Pi microcontroller, a manual selection processing unit, a plurality of servo motors and robotic glove, and a power supply. In the present disclosure, a supervised machine learning algorithm is implemented to determine the exact amount of Treatment/Therapy to be given for that respective patient, and generating a perfect therapy plan or path for the patients.



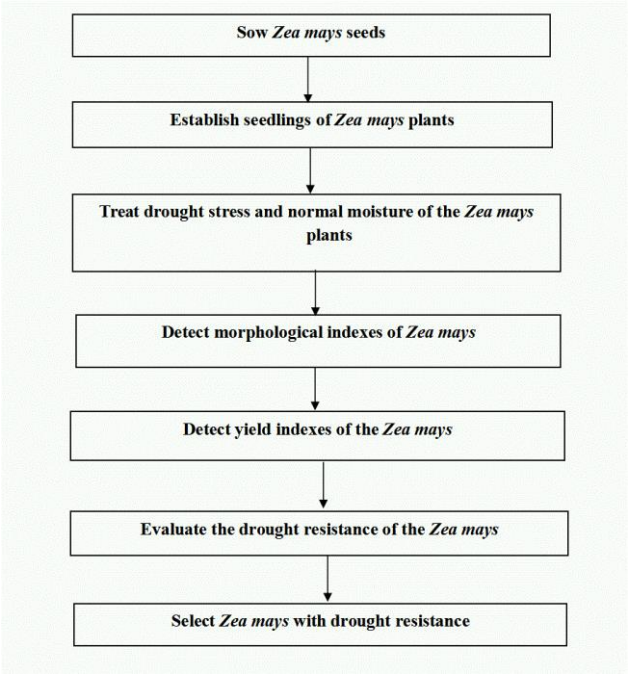
21: 2023/10846. 22: 2023/11/24. 43: 2024/05/27
51: A01H
71: Institute of Food Crops, Xinjiang Academy of Agricultural Sciences
72: Tang Huaijun, Xie Xiaoqing, Zhang Lei, Liu Cheng, Li Dong, Sun Baocheng

54: DROUGHT RESISTANCE APPRAISAL METHOD SUITABLE FOR MEMBRANE RIGDE CROSS IN ZEA MAYS FIELDS

00: -

The present invention discloses a drought resistance appraisal method suitable for membrane ridge cross in Zea mays fields, the drought resistance appraisal method is that the ridge cross planting is performed in water and drought areas, which means that one membrane is planted in a water area (2 rows), and one membrane is planted in a dry area (2 rows), the same material is planted adjacent in the water and drought areas, and includes the following steps: 1) sowing Zea mays seeds to be tested; 2) establishing seedlings of Zea mays plants to be tested; 3) treating drought stress and normal moisture of the

Zea mays plants to be tested; 4) detecting morphological indexes of the Zea mays to be detected; 5) detecting yield indexes of the Zea mays to be tested; 6) evaluating the drought resistance of the Zea mays to be tested; and 7) selecting Zea mays with drought resistance. The method of the present invention provides a reliable basis for screening drought-resistant Zea mays.

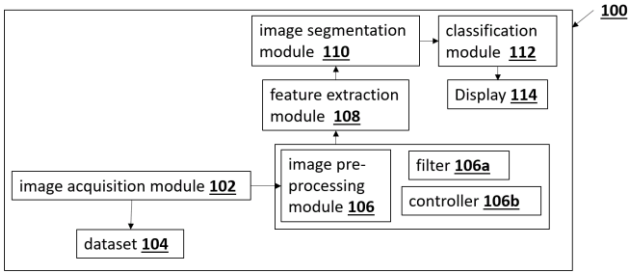


21: 2023/10847. 22: 2023/11/24. 43: 2024/05/27
51: A01N
71: Dr Sindhu Menon, Dr Pramod Kumar Naik, Dr Ravinder Singh Kuntal, Mr Baskar Venugopalan, Dr Girisha, Dr Basavaraj Hiremath
72: Dr Sindhu Menon, Dr Pramod Kumar Naik, Dr Ravinder Singh Kuntal, Mr Baskar Venugopalan, Dr Girisha, Dr Basavaraj Hiremath

54: A SYSTEM FOR DETECTING DISEASES IN PLANTS AND A METHOD THEREOF

00: -

A system (100) and a method (200) for detecting diseases in plants, comprises of: an image acquisition module (102) for collecting a plurality of images from at least a source to form a plant disease dataset (104); an image pre-processing module (106) for enhancing the collected plurality of images by removing noise to identify disease in plants; a feature extraction module (108) for extracting at least a feature from the enhanced plurality of images to detect a disease of the plant; an image segmentation module (110) for segmenting the features by reducing dimension of the images to identify at least a leaf of the plant, wherein the extracted features are segmented to differentiate the leaf from the background; and a classification module (112) for classifying the segmented images into a plurality of classes to identify the condition of the leaf.



21: 2023/10848. 22: 2023/11/24. 43: 2024/05/27
51: C12N
71: Institute of Plant Protection, Jiangxi Academy of Agricultural Sciences, Huangdao Customs House
72: LAN Bo, YANG Yingqing, YIN Changfa, SUN Qiang, CHEN Hongfan, KANG Meihua, HUANG Jianhua

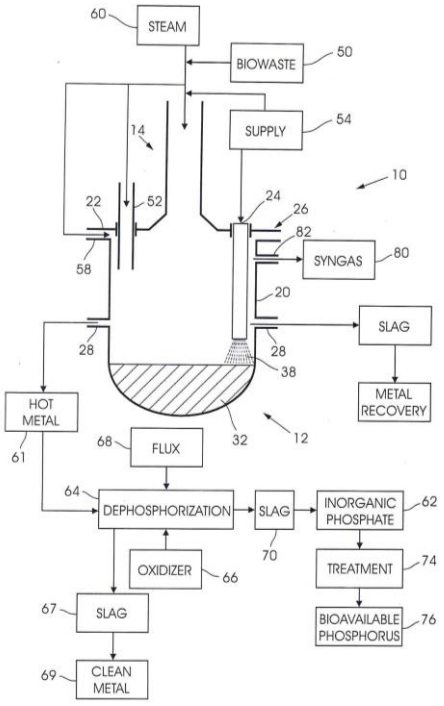
54: BIOLOGICAL CONTROL METHOD FOR RICE BLAST

00: -

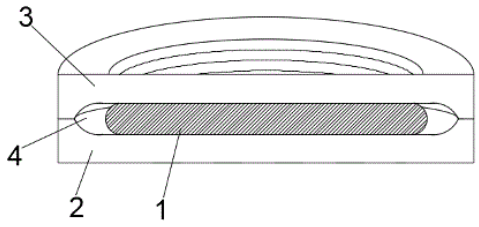
The present invention provides a biological control method for rice blast, belonging to the field of agricultural planting technology. The present invention includes the following steps: soaking and inducing germination of rice seeds using a medicinal liquid; applying organic fertilizer; spraying the rice seedlings with medicinal liquid 5 days before transplanting; the medicinal liquid contains Cumin extract and Soapberry extract; the organic fertilizer is a composted fermented product of a mixture of water hyacinth and livestock and poultry manure. The present invention can significantly inhibit the growth of rice blast fungus hyphae and reduce the incidence of rice blast; moreover, it is easy to operate, environmentally friendly, and cost-effective, making it suitable for controlling rice blast.

21: 2023/10850. 22: 2023/11/24. 43: 2024/05/27
51: C01B; C02F; C05F; C07F
71: MINTEK
72: MATINDE, Elias, KEKANA, Thokozile Penelope, XAKALASHE, Buhle Sinaye, REYNOLDS, Quinn

Gareth, BANDA, Wesley Kondwani, GELDENHUYS, Isabella Johanna
33: ZA 31: 2022/12778 32: 2022-11-24
54: PHOSPHORUS RECOVERY AND SYNGAS GENERATION FROM BIOWASTE
00: -
A method of recovering phosphorus and generating syngas from biowaste wherein the biowaste is smelted and gasified using steam in a direct current arc furnace.

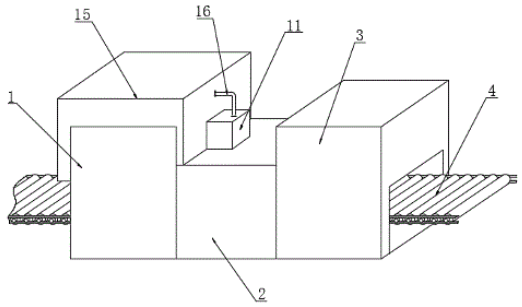


21: 2023/10855. 22: 2023/11/24. 43: 2024/05/27
51: A21C; A21D
71: ANHUI WANXUE FOODS CO., LTD
72: SUN, Chao
33: CN 31: 202110620120.1 32: 2021-06-03
54: SANDWICH BISCUIT CONTAINING COARSE CEREALS, AND PRODUCTION PROCESS THEREFOR
00: -
Disclosed are a sandwich biscuit containing coarse cereals and a production process therefor. The sandwich biscuit includes a sandwich layer, a lower biscuit slice, an upper biscuit slice, and arc-shaped recesses, where the lower biscuit slice is arranged on an outer surface of a lower end of the upper biscuit slice, the arc-shaped recesses are provided at middle positions of inner sides of the lower biscuit slice and the upper biscuit slice, and the sandwich layer fills a space between the lower biscuit slice and the upper biscuit slice and is located on inner sides of the arc-shaped recesses. When the lower biscuit slice moves to a lower portion of the upper biscuit slice, a lifting rod drives an electric sucker to move downwards, and the upper biscuit slice is pressed on an upper portion of the lower biscuit slice. By providing the arc-shaped recesses, the sandwich layer completely fills the space between the lower biscuit slice and the upper biscuit slice, and a gap between the lower biscuit slice, the upper biscuit slice and the sandwich layer is avoided, such that a contact surface between the sandwich layer and the biscuit is enlarged while the sandwich layer is prevented from overflowing, and chewing taste of the sandwich biscuit containing coarse cereals can be effectively improved.

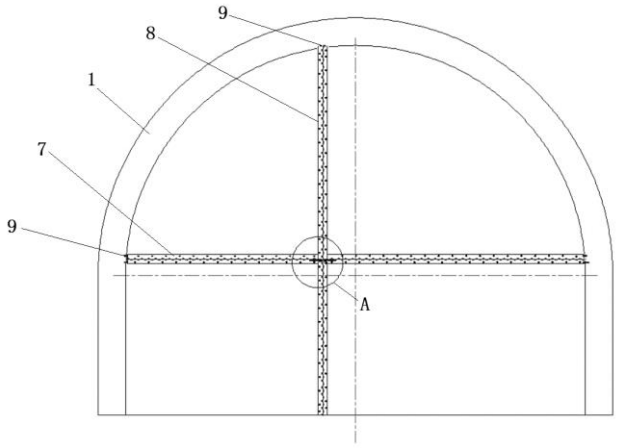


21: 2023/10856. 22: 2023/11/24. 43: 2024/05/27
51: A23L
71: ANHUI WANXUE FOODS CO., LTD
72: SUN, Chao
33: CN 31: 202110632477.1 32: 2021-06-07
54: MEAL REPLACEMENT PASTRY AND PREPARATION METHOD THEREFOR
00: -
The present invention discloses a meal replacement cake and a making method therefor. The method includes: placing a cake on a top of a cake placement frame, conveying the cake into a drying box by means of a conveying component, closing an electric door on a left side of the drying box for sealing, conducting drying by means of a drying mechanism, opening an electric door on a right side of the drying box after drying, conveying the cake into an air exchange box, then opening the electric door on the left side of the drying box, inputting a next cake placement frame, and moving the cake placement frame into the air exchange box. The present invention relates to the technical field of meal replacement cake machining. According to the meal replacement cake and the making method

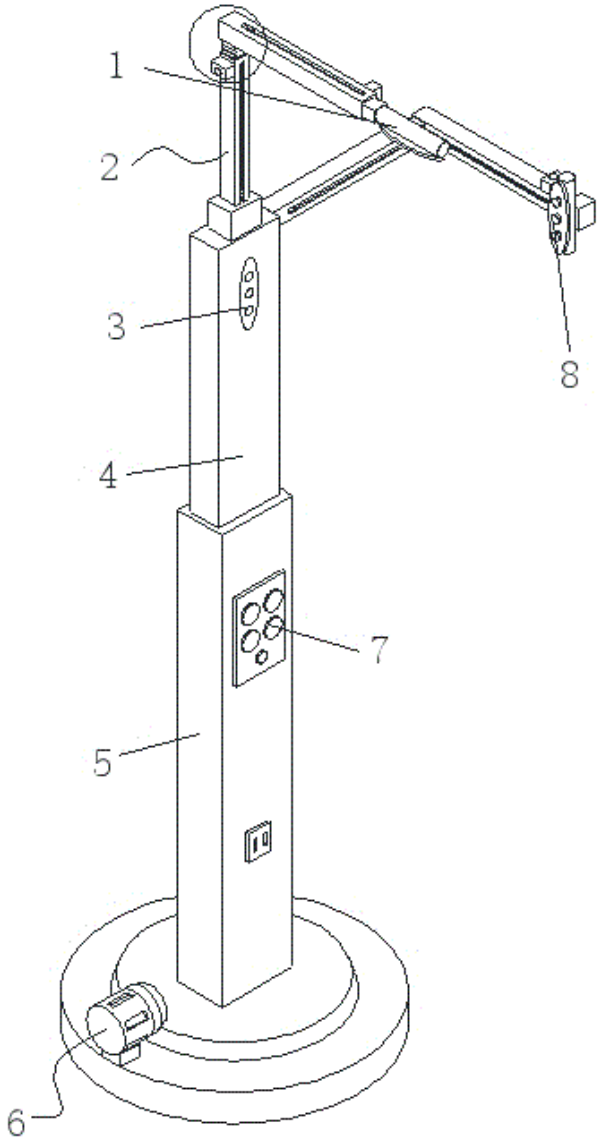
therefor, hot air and cold air are isolated by means of the electric door, processes of drying, air exchange and shaping may be conducted rapidly and constantly, and the three processes are integrated and operated at the same time, such that not only labor intensity is reduced, but also time required for transfer of each process is reduced.



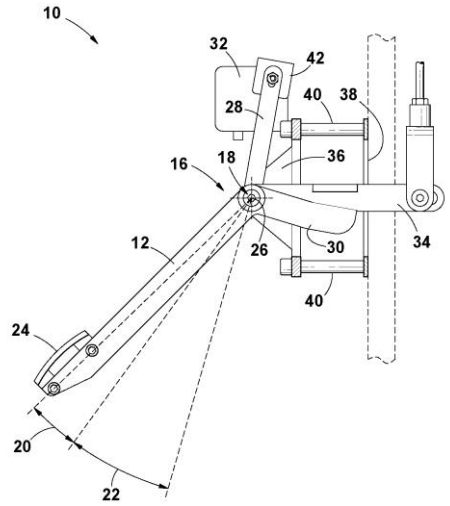
21: 2023/10882. 22: 2023/11/24. 43: 2024/05/27
51: E21D
71: Xi'an Century Metal Structure Co., Ltd.
72: Jianhua Zhao
33: CN 31: 202110883501.9 32: 2021-08-03
54: CORRUGATED STEEL PARTITION STRUCTURE
00: -
The invention relates to a corrugated steel partition wall structure, which is arranged in the middle of the tunnel along the extension direction of the tunnel, shaft or inclined shaft to divide the tunnel into not less than two independent spaces, and the length of the partition wall structure is the same as that of the tunnel body; the partition structure is composed of a plurality of partition plates successively connected, and the partition plate comprises a corrugated steel plate, a longitudinal flange and an end flange. The longitudinal flange and the end flange are fixed on all sides of the corrugated steel plate. Multiple groups of bolt holes are arranged on the longitudinal flange and the end flange, and the adjacent partition plates are connected by bolts; the invention realizes multi-space, irregular and asymmetric partition of the hole structure. The modular structure of the partition structure makes the partition form of different site conditions and use needs to be strongly supported, which greatly broadens the construction form of the partition structure.



21: 2023/10883. 22: 2023/11/24. 43: 2024/05/27
51: H04N
71: Jinggangshan University
72: Qing Fu, Shikun Xie, Jun Chen, Chen Guo, Wenlang Luo
54: A MULTI-LENS ACQUISITION DEVICE FOR THREE-DIMENSIONAL RECONSTRUCTION OF SCENIC SPOTS
00: -
The invention discloses a multi-lens acquisition device for three-dimensional reconstruction of a scenic spot, belonging to the technical field of three-dimensional image acquisition. The main control pillar comprises a rotating component connected at the bottom of the main control pillar and a lifting pillar embedded inside the main control pillar. The top and side of the lifting pillar are connected with adjusting components. By setting a rotating component, the motor drives the bevel gear to rotate under the meshing transmission between the bevel gear and the rotating disc. The rotating disk can drive the main control pillar to rotate slowly, which is convenient to make the front image acquisition unit rotate towards the center of the acquisition target, and it is more labor-saving to use. The invention separates the clamp block from the telescopic strip by setting an adjusting component and an external pulling control rod. Moving the telescopic strip can drive the end image acquisition unit to move the adjustment position. Under the elastic force of the spring, the clamping block and the telescopic strip can be engaged closely to complete the adjustment and fixing of the position of the image acquisition unit, which is convenient and quick to operate.



21: 2023/10894. 22: 2023/11/27. 43: 2024/05/30
51: B60T; F16D
71: TSHWANE UNIVERSITY OF TECHNOLOGY
72: OOSTHUIZEN Christiaan Coenrad, LAUNSPACH Waldo Stefan
33: ZA 31: 2022/12812 32: 2022-11-25
54: ELECTROMECHANICAL BRAKE PEDAL
00: -
This invention relates to a single electromechanical brake pedal. In particular, this invention relates to a single simplified electromechanical brake pedal, wherein a portion thereof is configured to actuate and prioritize electrical breaking before also employing mechanical breaking. The single electromechanical brake pedal includes a brake pedal which has an elongated member which is configured to receive an external force on a first end thereof and wherein the second end is configured to enable actuating means. Use of the actuating means enable prioritization of electrical breaking in a first displacement zone before also enabling mechanical breaking in a second displacement zone. The first end of the brake pedal is in the form of a flat surface connected to the elongated member to enable a human foot to exert the external force.



21: 2023/10896. 22: 2023/11/27. 43: 2024/05/30
51: A01N
71: Institute of Plant Protection, Jiangxi Academy of Agricultural Sciences, Huangdao Customs House
72: YIN Changfa, CHEN Hongfan, HUANG Jianhua, SUN Qiang, KANG Meihua, LAN Bo, YANG Yingqing
54: COMPOSITION FOR PREVENTING AND TREATING SESAME FUSARIUM WILT
00: -
The invention provides a composition for preventing and controlling sesame Fusarium wilt, and belongs to the technical field of crop disease prevention and control. The composition for preventing and treating sesame Fusarium wilt of the invention comprises the effective components of zhongshengmycin, osthole and mustard extract, where the mass ratio of zhongshengmycin, osthole and mustard extract is 4:1:1-1:4:4. The combination of zhongshengmycin, osthole and mustard extract has synergistic effect; the three effective components are all biogenic pesticides, which are harmless to people, livestock

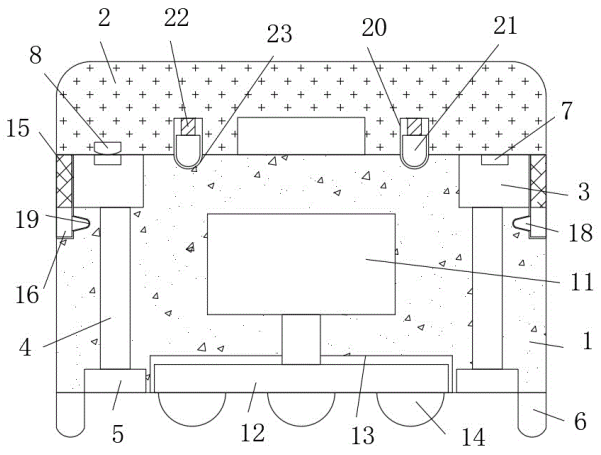
and the environment; the antibacterial mechanisms of the three effective components are different, which makes it difficult for sesame Fusarium wilt to produce medicament resistance and is convenient for application and popularization.

21: 2023/10897. 22: 2023/11/27. 43: 2024/05/30
51: A61H
71: Jiaxing Vocational & Technical College
72: KONG Xiangjin

54: ADJUSTABLE MASSAGE DEVICE FOR ELDERLY HEALTH

00: -

The invention discloses an adjustable massage device for elderly health care, which relates to the field of health care, and comprises a shell, where the top of the shell is movably connected with an adjusting cover through a slewing bearing, and fans are embedded on both sides of the top of the shell, and the output end of the fan is connected with an air inlet channel, which is arranged inside both sides of the shell, and the bottom of the air inlet channel is communicated with an air outlet, and the air outlet is arranged in an annular structure. The invention drives the vibrating plate to vibrate through the vibrating motor in the shell, so that the massage head on the vibrating plate can massage all parts of the user, which improves the comfort of the device. The adjusting cover is arranged on the shell, and the adjusting cover is set as a movable structure, so that the adjusting cover can control two fans on the shell to start, and the two fans are a hot fan and a cold fan respectively, and the cold and hot air can be adjusted by rotating the adjusting cover, which further improves the massage comfort of the device.

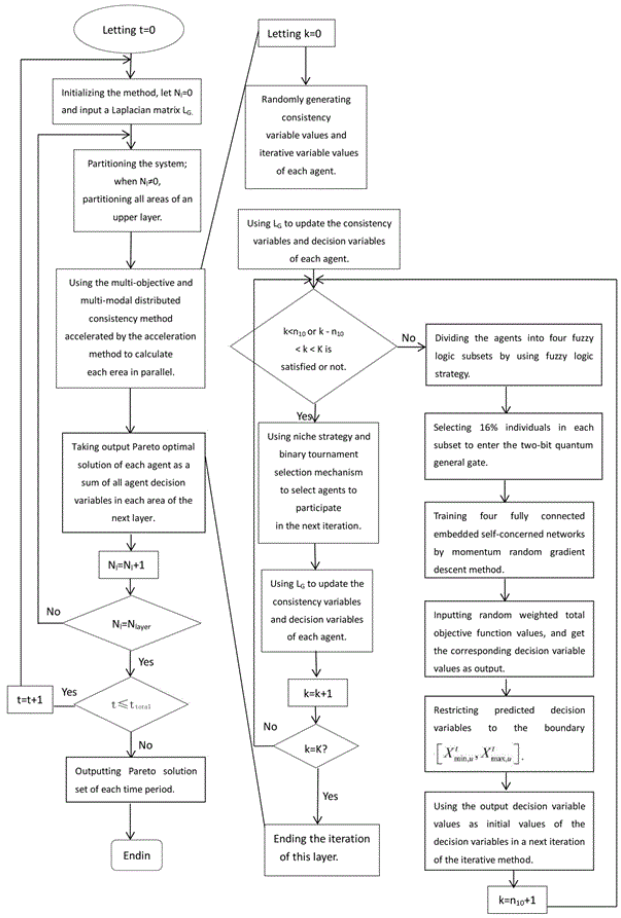


21: 2023/10899. 22: 2023/11/27. 43: 2024/05/30
51: G06Q
71: Guangxi University
72: YIN, Linfei, DING, Wenyu, HU, Likun
33: CN 31: 202211537118.9 32: 2022-12-02

54: MULTI-MODAL LAYERED MULTI-OBJECTIVE DISTRIBUTED OPTIMIZATION ACCELERATION METHOD FOR INTEGRATED ENERGY SYSTEM

00: -

The present invention provides a multi-modal layered multi-objective distributed optimization acceleration method for integrated energy system, wherein optimization method for the multi-modal problem, a fully connected layer embedded self-concerned network acceleration method of quantum and fuzzy logic and a multi-layer multi-objective distributed consistency method are combined; multi-layer and multi-objective distributed consistency method is applied as an iterative method, which is suitable for optimization of large-scale distributed multi-agent system; niche strategy and binary tournament selection mechanism are introduced to endow Pareto solution set with multi-modal characteristics; in the iterative process of the method, add quantum and fuzzy logic to the full connected layer embedded self-concerned network to improve speed of the method; the multi-modal layered multi-objective distributed optimization acceleration method for integrated energy system can solve multi-objective optimization problem of the integrated energy system, realize a function of quickly obtaining the multi-objective multi-modal Pareto solution set of integrated energy system, reduce required optimization time and improve operation speed of the optimization method.

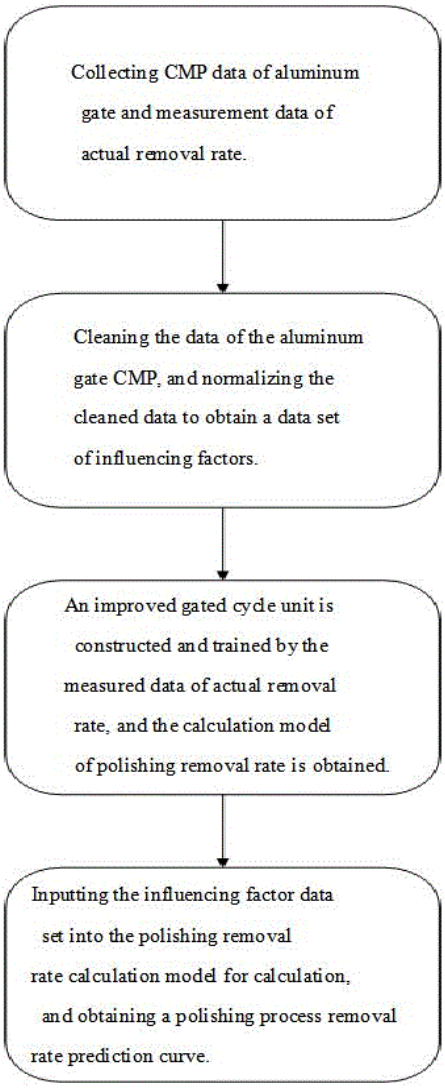


21: 2023/10900. 22: 2023/11/27. 43: 2024/05/30
51: H01L
71: TANGSHAN UNIVERSITY
72: ZHANG Jin, XUE Yali

54: CALCULATION METHOD OF POLISHING REMOVAL RATE FOR ALUMINUM GATE CMP

00: -

The invention discloses a calculation method for polishing removal rate of aluminum gate CMP, belonging to the technical field of intelligent calculation, which comprises the following steps: collecting data of aluminum gate CMP and measuring data of actual removal rate; Cleaning the data of the aluminum gate CMP, and normalizing the cleaned data to obtain an influence factor data set; Constructing a gating cycle unit, and transmitting the output of the Transformer encoder as an input to the gating cycle unit to obtain a polishing removal rate calculation model; Inputting the influencing factor data set into the polishing removal rate calculation model for calculation, and obtaining a polishing process removal rate prediction curve. According to the invention, a gated circulation unit is constructed, and the output of the Transformer encoder is transmitted to the gated circulation unit as an input by a knowledge distillation method, so that a large number of experiments are not needed to measure the removal rate under different process parameters.



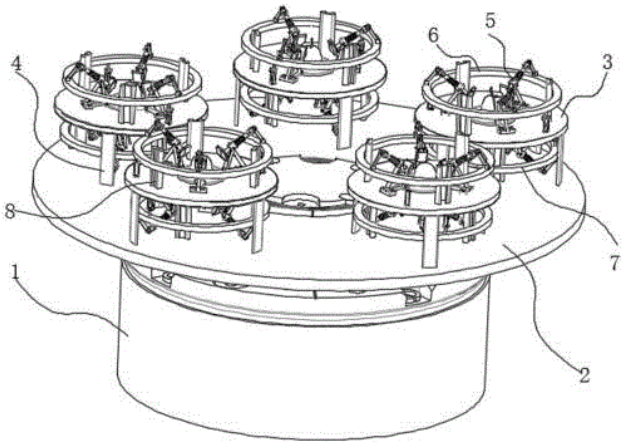
21: 2023/10901. 22: 2023/11/27. 43: 2024/05/30
51: G01N
71: Tarim University
72: LIU Yang, ZHANG Yongcheng, CHE Jikai, XIA Yifan, LIANG Qing

54: NOVEL NONDESTRUCTIVE DETECTING DEVICE FOR FIRMNESS OF FRAGRANT PEARS

00: -

The invention discloses a novel nondestructive detecting device for firmness of fragrant pears, which includes a base, where a motor is arranged in the base, the output shaft of the motor is connected

to a turntable rotatably arranged on the base, a plurality of fixed disks are evenly distributed on the upper circumference of the turntable, and the bottoms of the fixed disks are fixed into the upper surface of the turntable through support rods; the centers of the fixed disk are provided with through holes, the aperture of the bottoms of the through holes is smaller than the aperture of the top, and the top of the through hole smoothly transitions with the top of the fixed disks; a protective pad is fixedly installed on the hole walls of the through holes; a plurality of detection components are distributed on the upper and lower surfaces of the fixed disk around the through holes, and the detection components above the fixed disk are oppositely distributed with the detection components below the fixed disk. Compared with the prior art, the invention has good fitting degree with the fragrant pear, prevents the detection error caused by pressure concentration, and prevents the fragrant pear from being damaged during clamping and detection. It is efficient and accurate to detect the hardness parameters of fragrant pear by acoustic vibration excitation.

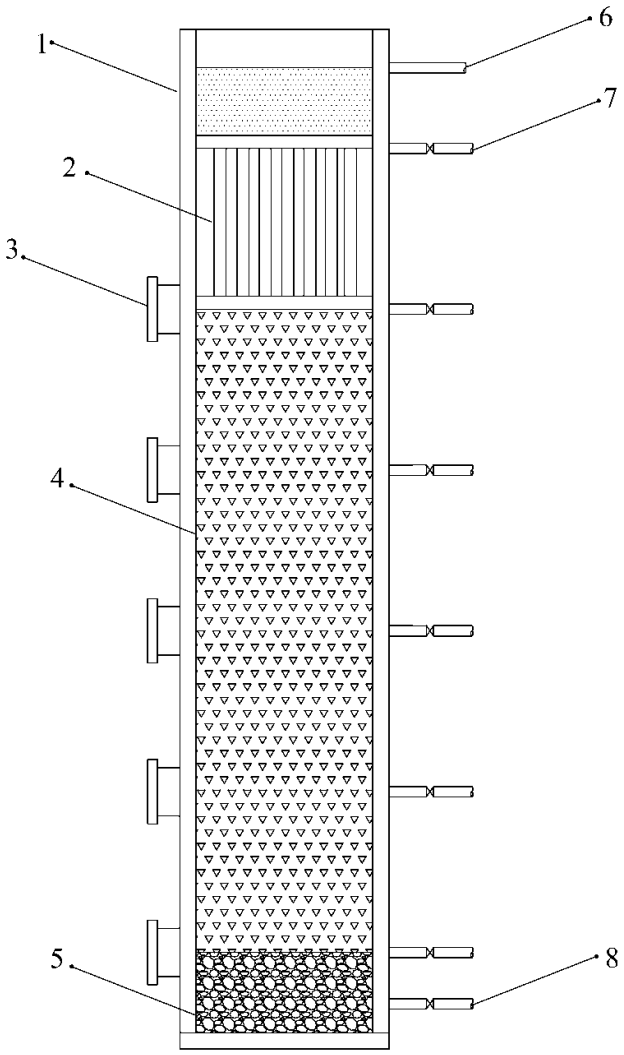


21: 2023/10903. 22: 2023/11/27. 43: 2024/06/04
51: C02F
71: Harbin Institute of Technology
72: XING, Defeng, LIU, Sitong, ZHOU, Huihui, WANG, Jing, LIU, Yang
33: CN 31: 2023109538381 32: 2023-08-01

54: CONSTRUCTION AND OPERATIONAL STRATEGY OF MICROBIAL ELECTROCHEMICAL FILTER FOR REMOVING IRON, MANGANESE AND AMMONIA NITROGEN FROM GROUNDWATER

00: -

Provided are a construction and operational strategy of a microbial electrochemical filter for removing iron, manganese and ammonia nitrogen from groundwater. The microbial electrochemical filter includes a cylinder, an electrochemical system, and a filter column; the electrochemical system and the filter column are arranged inside the cylinder, the electrochemical system is arranged above the filter column, and the filter column is composed of a carrier with a surface covered with a biofilm; and a water outlet is formed on the lower part of a side wall of the cylinder, and an overflow port is formed on the upper part thereof. The method can remove some pollutants from the wastewater before the wastewater enters the filter column through the electro-oxidation process; the electrochemical system improves the abundance and carbon fixation capacity of autotrophic microorganisms in the biological filter; and the microbial electrochemical filter providing conditions for the growth of heterotrophic iron and manganese oxidizing bacteria.

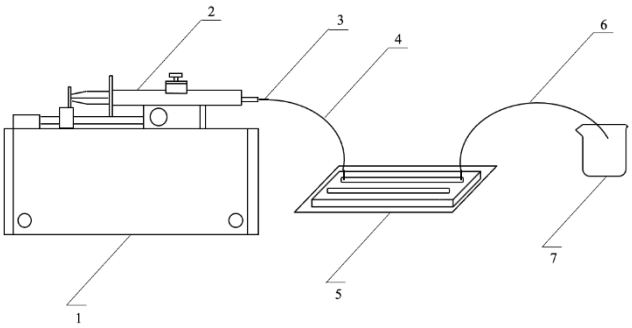


21: 2023/10904. 22: 2023/11/27. 43: 2024/05/30
51: C02F
71: Harbin Institute of Technology
72: XING, Defeng, LIU, Yang, WANG, Jing, ZHOU, Huihui, LIU, Sitong
33: CN 31: 2023109536634 32: 2023-08-01

54: DISINFECTION APPARATUS AND METHOD FOR IN-SITU ASSESSMENT OF BACTERIAL STRAINS BASED ON QUORUM SENSING

00: -

Provided are a disinfection apparatus and method for in-situ assessment of bacterial strains based on quorum sensing, the method includes a microfluidic reactor, where two independent identical culture spaces are arranged at corresponding chip positions inside the microfluidic reactor, each of the culture spaces is connected to an inflow channel and an outflow channel, and the inflow channel is adapted for bacterial liquid, culture media or disinfectants with different quorum-sensing capabilities to enter into the culture spaces through the inflow channel to cultivate biofilms or assess disinfection conditions. The present invention can facilitate observation and comparison of biofilm formation from bacterial liquid of different quorum-sensing capabilities by means of independent culture spaces in the microfluidic reactor, and detailed studies on the growth of different quorum-sensing bacterial biofilms under disinfection stimulation can be conducted, so as to gain a thorough understanding of their stress response mechanisms.



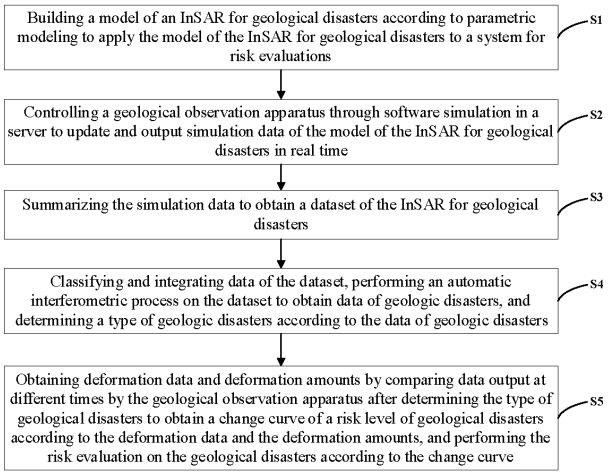
21: 2023/10906. 22: 2023/11/27. 43: 2024/05/30
51: G01S; G06F
71: SHAN DONG RUI XIN TIME AND SPACE INFORMATION TECHNOLOGY CO. LTD
72: Jiguang LIU, Xihai YANG, Jibin LIU, Yanliang LIU, Hao XIN
33: CN 31: 2023104761797 32: 2023-04-25

54: RISK EVALUATION METHOD FOR GEOLOGICAL DISASTERS BASED ON DYNAMIC DEFORMATION OF INSAR MONITORING

00: -

A risk evaluation method for geological disasters based on dynamic deformation of InSAR monitoring provided includes steps of: building a model of an InSAR for geological disasters according to parametric modeling to apply the model of the InSAR for geological disasters to a system for risk evaluations; controlling a geological observation apparatus through software simulation in a server to update and output simulation data of the model of the InSAR for geological disasters in real time; summarizing the simulation data to obtain a dataset of the InSAR for geological disasters; classifying and integrating data of the dataset, performing an

automatic interferometric process on the dataset to obtain data of geologic disasters, and determining a type of geologic disasters according to the data of geologic disasters.

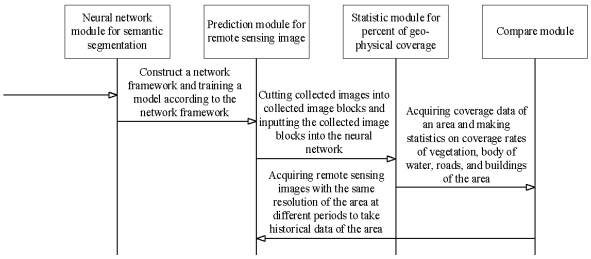


21: 2023/10907. 22: 2023/11/27. 43: 2024/05/30
51: G01C; G01S
71: SHAN DONG RUI XIN TIME AND SPACE INFORMATION TECHNOLOGY CO. LTD
72: Jiguang LIU, Xihai YANG, Jibin LIU, Yanliang LIU, Hao XIN
33: CN 31: 2023104761871 32: 2023-04-25

54: INSAR MONITORING SYSTEM BASED ON IMAGE PROCESSING, AND INSAR MONITORING METHOD THEREOF

00: -

An InSAR monitoring method based on image processing provided includes steps of: constructing a neural network for semantic segmentation; constructing training data according to the neural network for semantic segmentation; training the neural network for semantic segmentation; performing predictions for remote sensing images; making statistics on percent of geo-physical coverage; and acquiring the remote sensing images with the same resolution of an area at different periods to compare with the percent of geo-physical coverage at different periods.



21: 2023/10909. 22: 2023/11/27. 43: 2024/05/30
51: E01D
71: China Railway Jiujiang Bridge Engineering Co., Ltd., CHINA RAILWAY HI-TECH INDUSTRY CORPORATION LIMITED.
72: LIANG, Hui, ZHU, Dongming, LI, Tong, WANG, Zhaohua, REN, Huatao, XIA, Chaojuan, YANG, Zhiming, MIN, Li, ZHENG, Yi, BAI, Kongming, GAO, Feng, CHEN, Yi
33: CN 31: 202210496923.5 32: 2022-05-09

54: GIRDER-ERECTING METHOD

00: -

The present invention provides a girder-erecting method, relating to the technical field of girder-erecting, comprising: S1: erecting prefabricated piers according to girder information, and mounting a starting block on the prefabricated piers between a first one of the prefabricated piers and a last one of the prefabricated piers; S2: mounting a girder-erecting machine such that one leg of the girder-erecting machine is supported on a first one of the prefabricated piers and the other two legs of the girder-erecting machine are respectively supported on the starting block beside the first one of the prefabricated piers; S3: erecting, by the girder-erecting machine, segment girders simultaneously on either side of the starting block where the legs stand in the middle until the assembly of one cantilever girder is completed; S4: adjusting the girder-erecting machine to enter an aperture-passing ready state; S5: controlling the girder-erecting machine to perform an aperture-passing operation; and S6: repeating steps S3 to S5 until all the cantilever girders are erected and two adjacent ones of the cantilever girders are closed. The present invention effectively reduces the overall girder-erecting time.

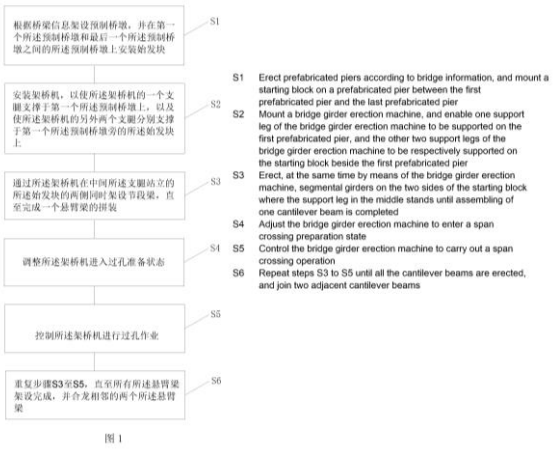


图 1

21: 2023/10910. 22: 2023/11/27. 43: 2024/05/30
51: E01D
71: CHINA RAILWAY JIUJIANG BRIDGE ENGINEERING CO., LTD., CHINA RAILWAY HI-TECH INDUSTRY CORPORATION LIMITED., CHINA RAILWAY 18TH BUREAU (GROUP) CO., LTD.
72: ZHANG, Yanhui, ZHAO, Mengchun, ZHOU, Ting, PENG, Yongjun, LI, Tong, LIANG, Hui, LI, Zhengbing, ZHU, Dongming, XIANG, Hua, ZHANG, Mingjie, CHEN, Yangguang, SU, Shanshan, LI, Xiongming, ZHANG, Qiming, FEI, Yuanyou, WANG, Qiwen, WEI, Hongtao, GUO, Xulong, WANG, Biao, ZHENG, Yi, BAI, Kongming, LIU, Yong, LV, Zheng, GAO, Qingyan, CHEN, Li
33: CN 31: 202111634220.6 32: 2021-12-22
54: CONSTRUCTION METHOD FOR X-ARCH BRIDGE
00: -
The present invention provides a construction method for an x-arch bridge, which falls within the technical field of girder erection. The construction method for an x-arch bridge comprises: a gantry crane is used to erect a calibrated part of a primary girder; and a bridge floor crane is used to erect a main arch on a bridge floor of the primary girder which has been erected, and the gantry crane is used to continue erecting the primary girder in other parts. According to the construction method for an x-arch bridge of the present invention, by making full use of the working surface and the working space, in the case where the current x-arch bridge is designed with higher and higher rise, the bridge floor crane is used to erect the main arch without increasing the height of the gantry crane to meet the erection requirements, and without using the gantry crane to erect the main arch rib with a higher height, the required height of the gantry crane can be reduced to a certain extent; in addition, the main arch and the primary girder steel beams can be assembled synchronously, the construction period can be shortened, the construction efficiency is high and the practicality is high.

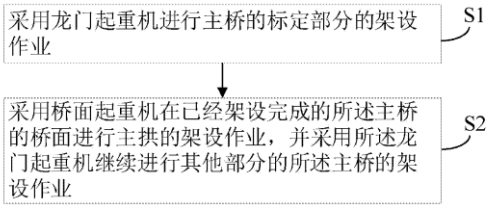
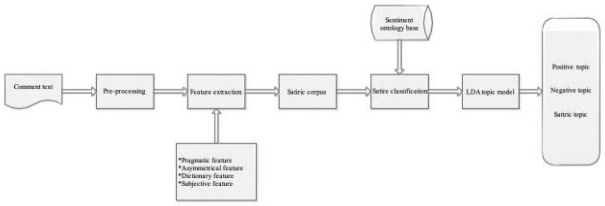


图 1

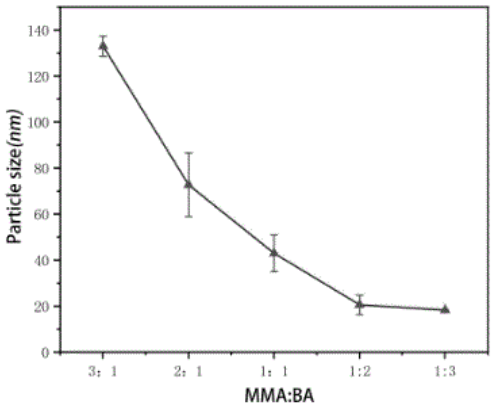
S1 Use a gantry crane to erect a calibrated part of a main bridge
S2 Use a bridge deck crane to erect a main arch on a bridge deck of the erected main bridge, and use the gantry crane to continue erecting other parts of the main bridge

21: 2023/10916. 22: 2023/11/27. 43: 2024/05/30
51: H04W
71: Zhejiang Ocean University
72: Wei SHI, Yue FU
33: CN 31: 2023101285549 32: 2023-02-17
54: SATIRE DETECTION METHOD BASED ON SENTIMENT-TOPIC-SATIRE MODEL
00: -
The present invention provides a satire detection method based on a sentiment-topic-satire model. According to a sentiment distribution of words in a text, an unsupervised probabilistic relational model is established to identify a satire body. Because satiric sentences in the text often have a hybrid sentiment polarity, to correctly identify the satiric sentences and non-satiric sentences plays a crucial role in sentiment analysis. The model constructed in the present invention estimates related sentiments based on a topic level distribution, evaluates sentiment related words appearing in a short text, and gives sentiment related labels. Experimental results show that the model is apparently superior to a baseline method in precision, recall rate, and F value; and a word distribution obtained from learning clearly distinguishes satiric popular topics and words in corresponding topics, including words with the hybrid polarity. Therefore, the method is capable to identify satiric expressions of various events, and is suitable for detecting satires in various short texts.



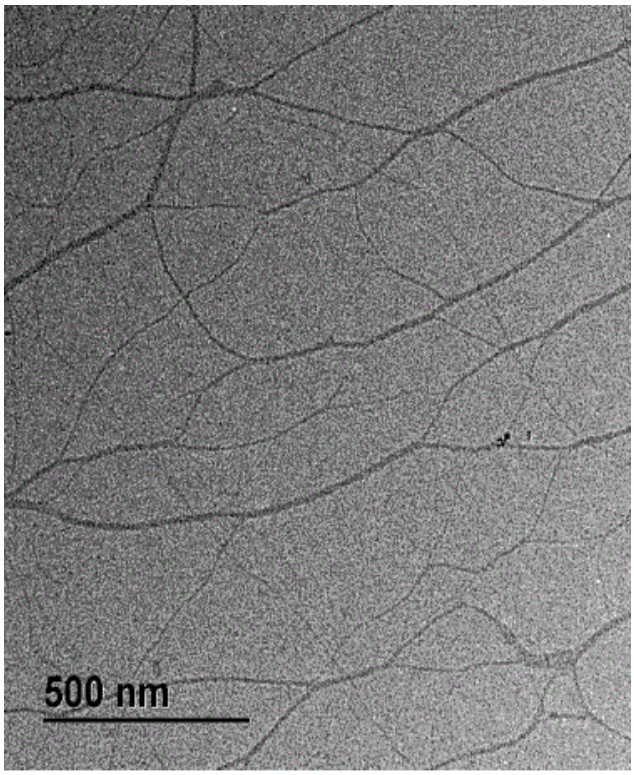
21: 2023/10948. 22: 2023/11/28. 43: 2024/05/28
51: C04B
71: Taiyuan University of Technology
72: Sitong ZHANG, Rui FENG, Wenwen YU, Jing ZHANG, Zhengxiang BAI, Guofeng WANG, Lan JIA, Fengbo ZHU
33: CN 31: 2023114924042 32: 2023-11-09
54: A DOUBLE-COMPONENT GROUTING MATERIAL AND ITS APPLICATION IN GROUP SUPPORT OF COAL MINE UNDERGROUND PASSED THROUGH EMPTY ROADWAY
00: -
The present invention provides a double-component grouting material and its application in group support of coal mine underground passed through empty roadway, which belongs to the technical field of grouting materials. The present invention provides a double-component grouting material comprising the following components: A component 48~75 parts and B component 25~53 parts; the A component includes 47~73 parts of mixed slurry of coal gangue and polyol and 1~2 parts of catalyst; the B component is isocyanate. The present invention uses coal gangue as a self-foaming agent to make the double-component grouting material have a lower density, better toughness and compressive performance after foaming and curing, which is beneficial to the stability and safety of the roadway; in the presence of a catalyst, polyols and isocyanates can quickly undergo a curing reaction, thereby quickly establishing a lightweight support structure; the double-component grouting material provided by the present invention can not only improve the thermal stability of polyurethane grouting composite material but also realize the resource utilization of coal gangue and reduce the cost of grouting material.

21: 2023/10949. 22: 2023/11/28. 43: 2024/05/28
51: C08G
71: Taiyuan University of Technology, Zhejiang University, Shanxi-Zheda Institute of Advanced Materials and Chemical Engineering
72: Zhuangzhuang LI, Shilei ZHU, Yanan YE, Lin CHEN, Dongdong YAN, Heng ZHANG, Xiaohong LIANG, Min ZUO, Qiang ZHENG
33: CN 31: 2023113348977 32: 2023-10-16
54: A WATERBORNE ACRYLATE COATING FOR THE PROTECTION OF WOODEN CULTURAL RELICS AND ITS PREPARATION METHOD
00: -
The present invention relates to a waterborne acrylate coating for the protection of wooden cultural relics and its preparation method, in weight fraction, it includes the following components: alcohol solvent 60-80 parts, methyl methacrylate 20-70 parts, butyl acrylate 20-70 parts, hydroxyethyl methacrylate 10-15 parts, acrylic acid 5-8 parts, nanosheet 1-5 parts, linolenic acid 1-5 parts, 2-tyl alcohol 1-5 parts, fluoropentyl methacrylate 3-11 parts, chain transfer agent 0.5-2 parts, initiator 0.5-2 parts, neutralization agent 3-7 parts, curing agent 10-24 parts, dibutyltin dilaurate 0.1-0.2 parts, water 100-110 parts. The present invention adopts the above-mentioned waterborne acrylate coating for the protection of wooden cultural relics and its preparation method. It has strong hydrophobicity, fast drying speed, smooth surface, good appearance, strong water resistance, and thus has better protection effect and longer protection time, the material can effectively repair wooden cultural relics, prolong the service life of cultural relics, and better protect the appearance of cultural relics.



21: 2023/10950. 22: 2023/11/28. 43: 2024/05/28
51: C08F
71: Taiyuan University of Technology, Shanxi-Zheda Institute of Advanced Materials and Chemical Engineering

72: Dongdong YAN, Yanan YE, Shilei ZHU, Zhaojun YUE, Yanjing ZHANG, Zhuangzhuang LI, Huijie ZHOU, Fengbo ZHU, Wenwen YU, Qiang ZHENG
33: CN 31: 2023113349880 32: 2023-10-16
54: A PREPARATION METHOD OF INORGANIC SUB-NANOWIRES / TERT-BUTYL ACRYLATE COMPOSITE ELASTOMER MATERIALS
00: -
The present invention relates to a preparation method of inorganic sub-nanowires / tert-butyl acrylate composite elastomer materials, which belongs to the technical field of high-performance and functional nanocomposites. The method includes the following steps: S1, the preparation of inorganic sub-nanowires by hydrothermal method; S2, the prepared inorganic sub-nanowires were dissolved in the mixed solution of cyclohexane and tert-butyl acrylate monomer, and the initiator and crosslinking agent were added to obtain a mixed solution with a certain viscosity; S3, the mixed solution with a certain viscosity was initiated and polymerized under ultraviolet light to obtain inorganic sub-nanowires/ polymer composite elastomer materials. The invention provides a preparation method of inorganic sub-nanowires / tert-butyl acrylate composite elastomer materials, the preparation method is simple, and the prepared composite materials have high strength, high toughness, and excellent mechanical properties.



21: 2023/10951. 22: 2023/11/28. 43: 2024/05/28
51: C05G
71: Institute of Plant Protection, Jiangxi Academy of Agricultural Sciences, Huangdao Customs House
72: KANG Meihua, YIN Changfa, HUANG Jianhua, SUN Qiang, CHEN Hongfan, LAN Bo, YANG Yingqing
54: FERTILIZER COMPOSITION AND APPLICATION THEREOF IN PREVENTING AND TREATING RICE BAKANAE DISEASE
00: -
The invention discloses a fertilizer composition and its application in preventing and treating rice bakanae disease, belonging to the technical field of fertilizers. The fertilizer composition comprises the following raw materials in parts by mass: 20-25 parts of urea, 25-30 parts of ammonium chloride, 25-30 parts of potassium chloride, 15-20 parts of calcium superphosphate, 30-35 parts of animal manure, 15-20 parts of plant straw, 15-18 parts of modified attapulgite clay powder, 15-18 parts of mixed plant extract, 10-15 parts of potassium humate, 8-10 parts of carboxymethyl chitosan, 5-8 parts of carrageenan oligosaccharide, 3-5 parts of seaweed polysaccharide, 3-5 parts of composite microbial bacterial agent, and 3-5 parts of wintergreen oil. The fertilizer composition contains an organic fertilizer

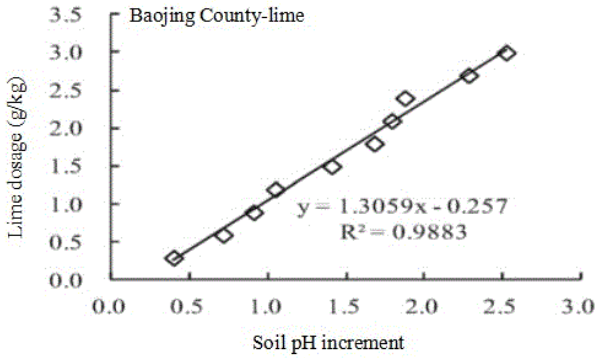
component, an inorganic fertilizer component and a biological fertilizer component, and the three components cooperate synergistically, so that the disease resistance of rice can be effectively improved, the propagation of bakanae pathogens can be inhibited, and the occurrence rate of bakanae disease of rice can be reduced.

21: 2023/10952. 22: 2023/11/28. 43: 2024/05/28
51: G06F
71: Jilin Tobacco Industry Co., Ltd., Hunan Agricultural University
72: JIN Jianghua, LI Xu, GUO Wei, YU Dapeng, ZHANG Shourong, YU Haishun, DENG Yongsheng, YANG Lili, LI Yuanhuan, DENG Xiaohua

54: METHOD FOR DETERMINING CONDITIONER APPLICATION AMOUNT IN ACIDIFIED SOIL REMEDIATION

00: -

The invention belong to the technical field of agriculture, and particularly relates to a method for determining the lime application amount in acidified soil remediation, which includes the steps of determining the soil pH increment, treating the soil to be improved with lime, determining the soil pH increment after applying different limes to the soil to be improved, constructing a lime application amount model, determining the lime application amount in the field, and adding blast furnace slag while applying lime. The invention only selects the soil pH as the test index, which is simple and easy to operate, and overcomes the defect of low accuracy of the estimation method. More importantly, it considers the buffering characteristics of different soils and the characteristics that the soil pH changes greatly after applying lime, and can accurately calculate the lime dosage required by acidified soil to improve a certain unit, which is suitable for various types of soils and has important application value.

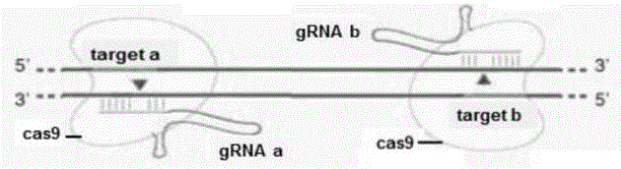


21: 2023/10953. 22: 2023/11/28. 43: 2024/05/28
51: C12N
71: The Second Xiangya Hospital of Central South University
72: LAI Ruosha, XIE Dinghua, XIE Huaping, FU Guifang, YANG Shu

54: METHOD FOR BREEDING ZEBRAFISH WITH SLC26A4 GENE DELETION

00: -

The invention relates to the technical field of gene knockout, in particular to a method for breeding a zebrafish with slc26a4 gene deletion. According to the invention, through the CRISPR/Cas9 gene editing technology, an appropriate targeting site is designed on the zebrafish slc26a4 gene, and specific sgRNA and Cas9-mRNA are synthesized in vitro for gene editing of zebrafish. The invention can silence specific genes more efficiently and accurately, and the production is simple, the cost is low, and multiple sites on the target gene can be cut at the same time, and any number of single genes can be silenced. The invention also provides a method for gene knockout breeding of slc26a4 gene deletion zebrafish, and the zebrafish model constructed by this method is helpful to further reveal the whole process of human large vestibular aqueduct disease and the molecular mechanism regulating this process, and is of great significance in understanding the pathology of vestibular aqueduct disease in medicine and developing new treatment schemes.



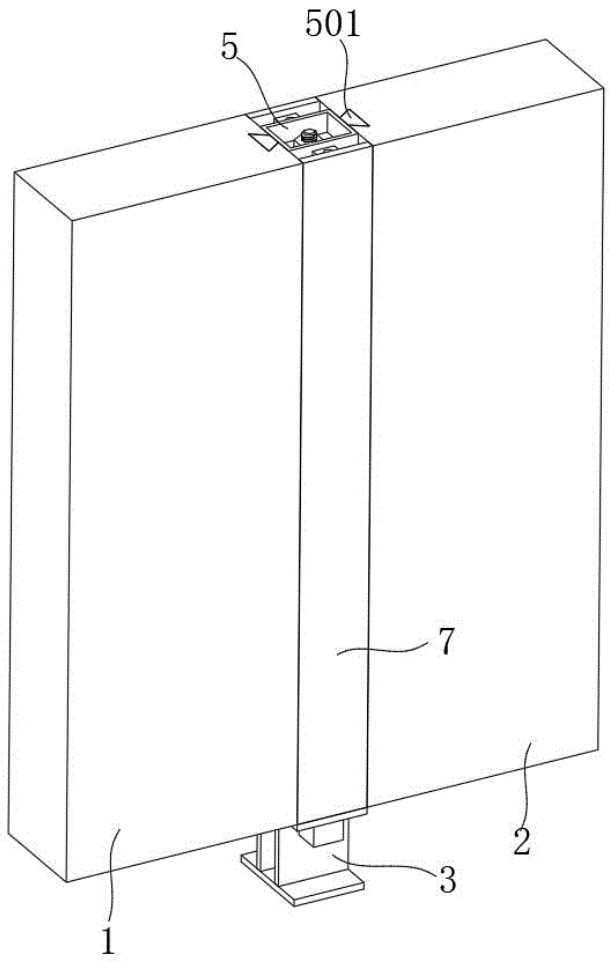
21: 2023/10954. 22: 2023/11/28. 43: 2024/05/28

51: C12N
71: Hainan University
72: Lixiao NIE, Shaokun SONG, Yixue MU
54: A SUSTAINABLE CULTIVATION METHOD FOR PROMOTING ANTHOCYANIN SYNTHESIS IN COLORED RICE
00: -
The present invention discloses a sustainable cultivation method for promoting anthocyanin synthesis in colored rice, steps: A, sowing green manures: selecting green manure crops suitable for tropical climate characteristics (sesbania, stylosanthes, Yazhou lentils, crotalaria, etc.), the sowing time of green manure crops is in middle-late March of each year, the sowing amount is 0.5-3.0kg/mu; B, green manures incorporation: when the fresh biomass of green manures reaches more than 1kg/m2 (90-100 days after sowing), mowing, crushing and in situ incorporation, and irrigation in the paddy field to maintain 5-10cm shallow water layer impregnated green manure, carrying out the rice transplanting after 20-25 days of maturity; C, rice seedling raising: screening a colored rice variety to raise seedlings, then removing husks, unsaturating grains and impurities by water selection, sterilizing, soaking the seeds and accelerating the germination, sowing the seeds in a seedling field until more than 90% of the seeds are exposed to white; D, seedling transplanting and field management: transplanting seedlings when the seedling grows to 3.5-4.5 leaves. The total amount of nitrogen fertilizer was half of the local conventional nitrogen fertilizer; applying base fertilizer 1-2 days before transplanting rice seedlings, 3kg of urea, 34kg of calcium superphosphate and 6kg of potassium chloride per mu; applying the first fertilizer 7-10 days after transplanting rice and 3kg urea per mu; applying the second fertilizer 20-25 days after transplanting rice, 3kg urea and 6kg potassium chloride per mu. E, harvest and storage of rice: harvesting the rice when more than 90% of rice husks and panicle axis, branches turn yellow, and grains become hard. After harvesting, the rice is naturally dried in the shade and removed impurities, so that the seed moisture content is less than 14.0%, stored in a cool and dry environment. The present invention improves the soil physical and chemical properties through the green manure-rice rotation, which can effectively promote the anthocyanin synthesis of colored rice, and can provide an ecological way for the concept of sustainable development of modern agriculture.

21: 2023/10955. 22: 2023/11/28. 43: 2024/05/28
51: B03D
71: Kunming University of Science and Technology
72: Qinbo Cao, Yan Liang, Haiyu Zhang, Yan Yan, Yanjun Li
33: CN 31: 202310603981.8 32: 2023-05-26
54: AN EFFICIENT FLOTATION METHOD FOR RUTILE
00: -
The invention discloses an efficient flotation method for rutile. The rutile is crushed and ground to -74+45micrometre, and the mixture of barium chloride and ammonium chloride is used as activator to activate the rutile, and then the composite collector and inhibitor are added. The flotation processes of one time of rougher flotation, one time of sweeping and three times of fine flotation are carried out. The composite collector is composed of 2.3-butanediol and sodium diethyl dithiocarbamate, and the inhibitor is water glass; among them, 2.3-butanediol content is 20-70%, diethyldithiocarbamate sodium 30-80%; the combination of barium chloride and ammonium chloride has obvious synergistic effect on the floatation recovery of rutile; the recovery of rutile can be improved by the association of barium chloride and ammonium chloride on the surface of rutile.

21: 2023/10956. 22: 2023/11/28. 43: 2024/05/28
51: E04B
71: Henan University of Urban Construction
72: Peibo You, Peng Li, Xiaole Yan, Congjun Zhang, Lansi Peng, Hua Fan, Yubin Zhu, Shiwei Gao, Haiyang Zhang, Tianxing Liu, Hengbin Li, Lele Liu, Yi Wang, Shuaiqi Song, Ying Li
33: CN 31: 202310604093.8 32: 2023-05-26
54: A PREFABRICATED SHEAR WALL STRUCTURE
00: -
The invention discloses a prefabricated shear wall structure, which relates to the technical field of prefabricated building engineering. It comprises a left shear wall, a right shear wall and a ground embedded component. A bottom connector is fixed on the upper surface of the top plate through a fixing component, and a locking mechanism is arranged inside the top connector. The upper end of the

pressure rod is connected with the locking mechanism by extending to the top connector, and the guide slot is connected with the internal penetration insert of the jack. The invention can make the component work of shear wall more convenient, and reduce the workload and difficulty of the component work to a certain extent. Moreover, it can further improve the component strength and connection stability between the left shear wall and the right shear wall. This makes the bearing capacity and stiffness of the connected structure stronger, while improving the strength and integrity between the shear wall and the foundation. In turn, this can improve the fixed effect and stability of the connected structure, ensure the quality of component construction and the bearing capacity of the overall structure.

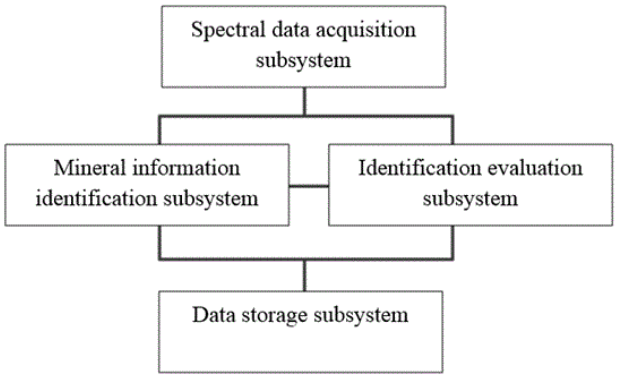


21: 2023/10957. 22: 2023/11/28. 43: 2024/05/28
51: G06T
71: China Aero Geophysical Survey and Remote Sensing Center for Natural Resources
72: BIAN Yu, CHEN Ling, WANG Mengfei, JIA Weijie, YANG Yongpeng, SUN Ang, DANG Fuxing
33: CN 31: 2023105499091 32: 2023-05-16

54: MINERAL INFORMATION IDENTIFICATION SYSTEM AND METHOD BASED ON SPECTRAL ENHANCEMENT

00: -

The application discloses a mineral information identification system and method based on spectral enhancement, where the identification system includes a spectral data acquisition subsystem for acquiring spectral data including different mineral types and performing spectral enhancement processing on the spectral data; the mineral information identification subsystem for decomposing and analyzing the enhanced spectral data, identifying the mineral information in the spectral data and obtaining an identification result; the identification evaluation subsystem for evaluating the identification result by adopting a convolutional neural network according to the spectral data to obtain an evaluation result; and the data storage subsystem for storing the identification result and the evaluation result at the same time. According to the application, minerals are classified and identified by spectral data and hyperspectral data respectively, and the classification result is compared with the identification result, so as to ensure the accuracy of mineral information identification.

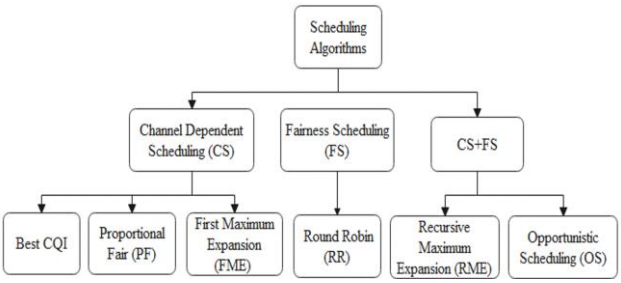


21: 2023/10960. 22: 2023/11/28. 43: 2024/05/28
51: H04W
71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, KUKADE, Shweta, ZODPE, Harshali, KUMAWAT, Manisha
72: KUKADE, Shweta, ZODPE, Harshali, KUMAWAT, Manisha

54: AN UPLINK SCHEDULING SYSTEM TO ENHANCE SPECTRAL EFFICIENCY OF 5G NETWORK

00: -

The present invention related to an uplink scheduling system to enhance spectral efficiency of 5g network. The current uplink data transmission systems face a major challenge in making Resource Blocks (RBs) available in a continuous form and optimally allocating them to active users to increase the system's spectral efficiency.The proposed algorithm is collectively referred to as a multi-user (MU) uplink scheduler BNSRME algorithm. To allocate RBs to UEs in the most optimized manner a constraint utility maximization problem is formulated. The utility matrix is then transformed into a weighted sum-rate maximization problem, enabling weights to be adaptively changed in accordance with marginal utility values. The BNSRME-TH algorithm also takes into account a threshold limit based on the signal-to-noise ratio (SNR), which enhances system performance, spectral efficiency, and throughput while satisfying multiple users in terms of allocated resources. The 5G uplink Non-Stand-Alone (NSA) cellular network employs this MU timing method.

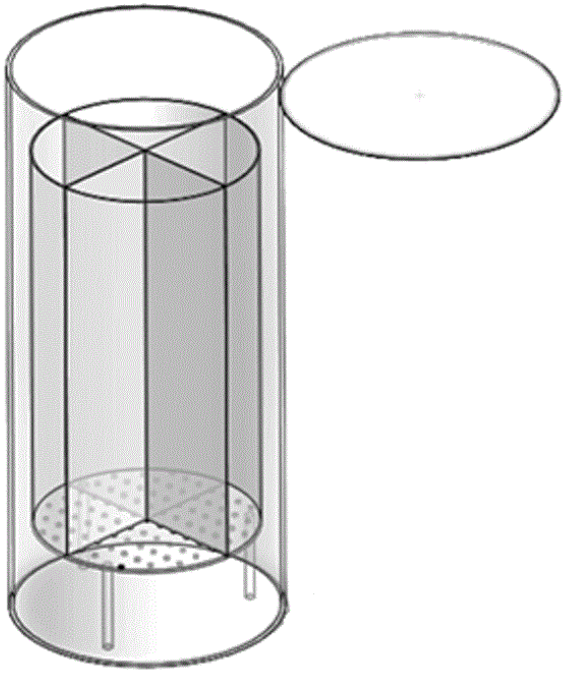


21: 2023/10961. 22: 2023/11/28. 43: 2024/05/28
51: B27K
71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, RAZDAN, Surbhi, KARKALE, Pranay Pramod, BHATE, Hardik, AAHER, Shruti, AAGRE, Rugved, BANSAL, Gaurav, POKALE, Atharva
72: RAZDAN, Surbhi, KARKALE, Pranay Pramod, BHATE, Hardik, AAHER, Shruti, AAGRE, Rugved, BANSAL, Gaurav, POKALE, Atharva

54: A BAMBOO MOISTURE CHAMBER

00: -

The present invention related to a bamboo moisture chamber. A container to store bamboo cut specimens of lengths up to 1.5m and maintain their moisture content by regulating humidity in the environment inside the chamber. This chamber has 2 main parts. The outer covering is made of Stainless steel and has a lid on the top that locks. The second part of the setup is the bamboo storage assembly. In this a plat with multiple holes is placed at the base of a cylinder which has 4 equal partitions to keep 4 different bamboo species. The setup is attached the 3 legs to raise this setup above the humidifier. It is such that it can be kept in an open atmosphere. It houses the required electronics components on its inside. It will constantly be in high moisture conditions and thus it should not corrode in any case. Thus, the material for inner assembly is also Stainless steel.

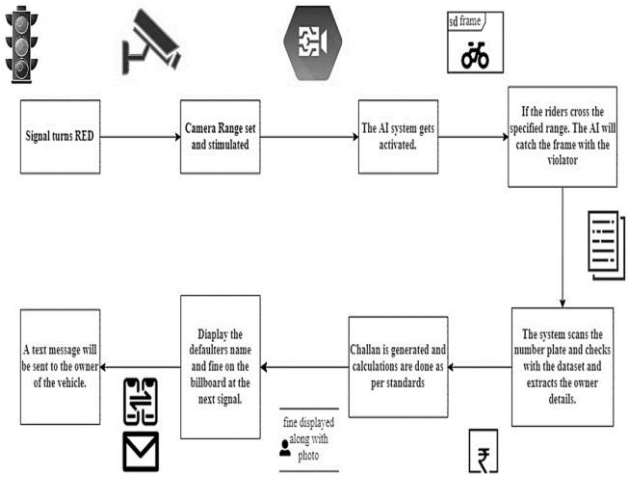


21: 2023/10962. 22: 2023/11/28. 43: 2024/05/28
51: G06N
71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, LOKHANDE, Netra M., AHIRRAO, Shripad, SHARMA, Abhishek Kumar, PRAKASH, Ravi, DHAMALE, Sharvari, SHAIKH, Moeez
72: LOKHANDE, Netra M., AHIRRAO, Shripad, SHARMA, Abhishek Kumar, PRAKASH, Ravi, DHAMALE, Sharvari, SHAIKH, Moeez

54: A SYSTEM FOR SURVEILLANCE ENHANCEMENT AND CONTROL DISPLAY USING MACHINE LEARNING FOR TRAFFIC VIOLATION

00: -

The present invention relates to a surveillance enhancement and control. display using machine learning approach for traffic violation.In today's fast-paced world, real-time information is all anyone seeks, hence the system we have inferred here intends to offer a solution to give on-time violation data to the defaulter for violations like jumping the signals and not wearing a helmet while riding a motorcycle. It is frequently seen that defaulters don't realize they have committed specific offenses and take the entire traffic system for granted. By displaying the violation on the billboard with the rider's image and associated fine, the number of infractions committee will be reduced and defaulters will be made aware of the violations committed. This invention is described in detail with the help of Figure 1 illustrates the Schematic Diagram of invention.

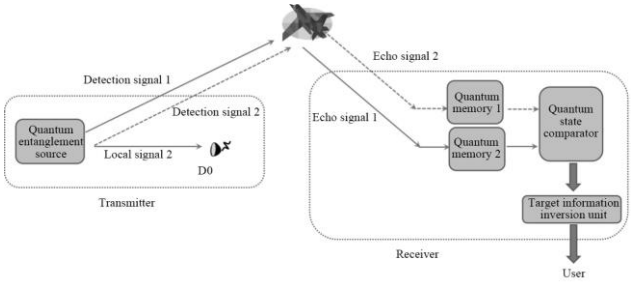


21: 2023/10963. 22: 2023/11/28. 43: 2024/05/28
51: G01S
71: BEIJING INSTITUTE OF TECHNOLOGY
72: ZHANG, Shengli

54: QUANTUM RADAR EXPERIMENTAL DEVICE BASED ON A QUANTUM STATE COMPARATOR

00: -

The present invention belongs to a technical field of target detection and identification, and discloses a quantum radar experimental device based on a quantum state comparator; the quantum radar experimental device comprises a transmitter and a receiver, the transmitter comprises a quantum entanglement source, the quantum entanglement source is a three-mode quantum entangled state prepared by a cascaded second-order nonlinear process; the receiver comprises a signal collection unit, two quantum memories, the quantum state comparator and a target information inversion unit; the signal collection unit is configured to receive signals reflected by a target and send the signals to the two quantum memories respectively, the quantum state comparator is configured to compare quantum states in the two quantum memories, the target information inversion unit is configured to speculate target information according to a comparison result of the quantum state comparator. According to the present invention, efficient judgment of existence of the target can be achieved through the quantum state comparator, so that a problem of extra resource consumption caused by quantum measurement in the existing quantum radar is solved.

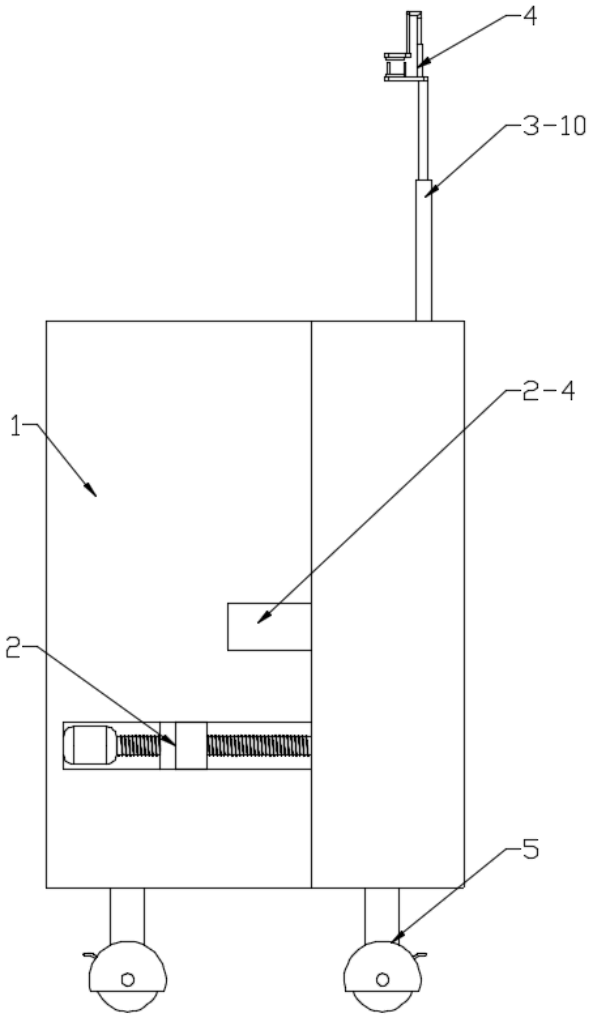


21: 2023/10964. 22: 2023/11/28. 43: 2024/05/28
51: B08B; B29C
71: GUANGDONG ENGINEERING POLYTECHNIC
72: YAO, Miaoshi, FENG, Jingyi, ZHANG, Junzhu, CHEN, Youqing, GUO, Xi, SHI, Jiao, XU, Chenrong, ZHENG, Lingling

54: INTELLIGENT FILM APPLICATION DEVICE FOR FURNITURE PANELS

00: -

An intelligent film application device for furniture panels, the present invention relates to the technical field of furniture film, the limit frame is an "L" shaped structure; the limit mechanisms are respectively provided on the left inner side wall and the front inner side wall of the limit frame; the adjusting mechanism is provided at the upper end of the limit frame; the fixed mechanism is provided on the adjusting mechanism; aligning the corners of the protective film with the corners of the table to avoid deviation; after aligning the corners of the protective film with the corners of the table, it is easy to lower and stick the edges of the protective film onto the tabletop, making it fit snugly with the table.

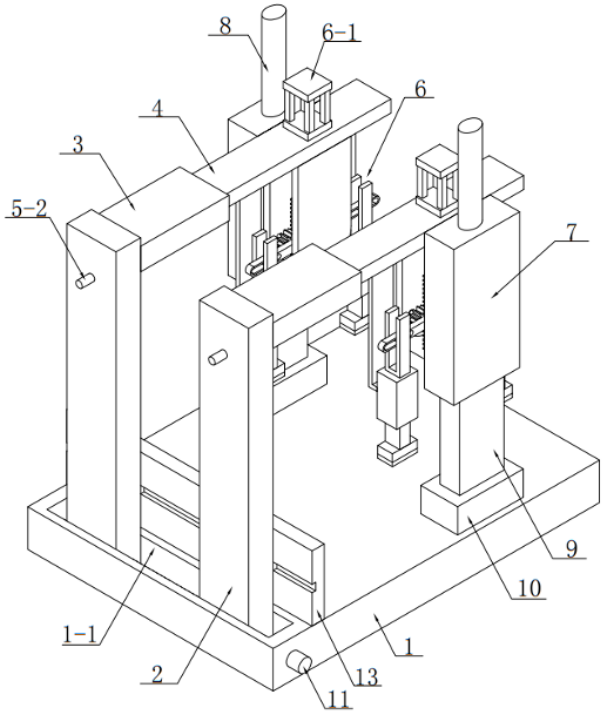


21: 2023/10965. 22: 2023/11/28. 43: 2024/05/28
51: B27C; B27M
71: GUANGDONG ENGINEERING POLYTECHNIC
72: GUO, Xi, SHI, Jiao, FENG, Jingyi, YAO, Miaoshi, CHEN, Youqing, XU, Chenrong, ZHENG, Lingling, ZHANG, Junzhu

54: ASSEMBLY EQUIPMENT FOR FURNITURE MANUFACTURING

00: -

An assembly equipment for furniture manufacturing, the present invention relates to the technical field of furniture equipment; two horizontal supports are provided at the upper end of the right side of a support block respectively; two movable supports pass through the interior of the corresponding horizontal supports respectively; two movable assemblies are provided at the bottom of the horizontal supports respectively; two lower pressure assemblies are provided on the lower side of the movable supports respectively; it is able to limit the part so that the corresponding mounting holes are in a fixed state, so as to facilitate the locking and installation of the parts.



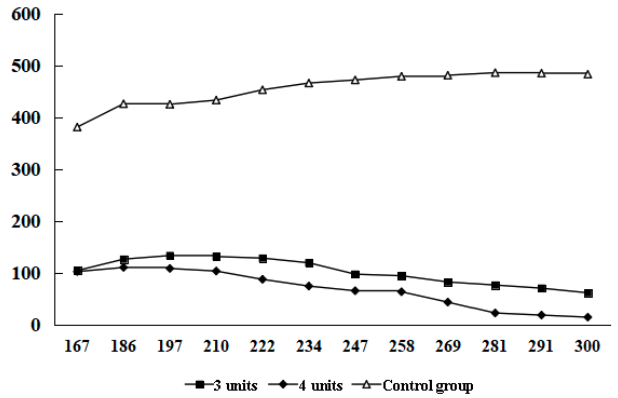
21: 2023/10966. 22: 2023/11/28. 43: 2024/05/28
51: A61K
71: LI LI, BEIJING RONGXIANG INSTITUTE OF REGENERATIVE MEDICINE CO., LTD
72: LI, Li

54: PHARMACEUTICAL COMPOSITION AND USE THEREOF IN REGULATING FIBROBLAST GROWTH

00: -

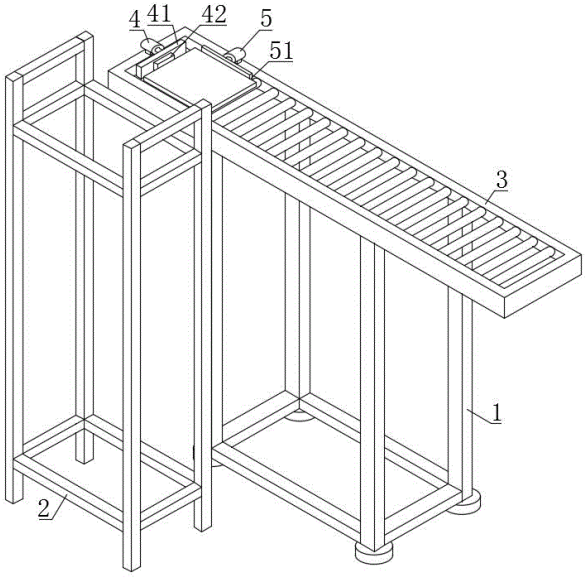
The present invention relates to a pharmaceutical composition and use thereof in regulating fibroblast growth, and belongs to the field of medicines. The pharmaceutical composition comprises edible oil, Scutellaria baicalensis extract, Cortex Phellodendri extract, Coptis chinensis extract, Pericarpium Papaveris extract, earthworm extract, and beeswax, and has main ingredients including baicalin, obaculactone, berberine, narcotoline and earthworm amino acid. The pharmaceutical composition prepared by the present invention has the effects of regulating fibroblast growth, treating and/or preventing fibrosis in organs such as heart, liver,

lung, kidney, pancreas, blood vessel and bone marrow, scar formation and/or tissue aging.



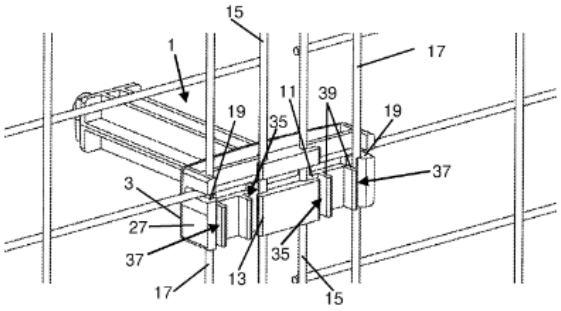
21: 2023/10968. 22: 2023/11/28. 43: 2024/05/28
51: B65G
71: Lu'an Xiangchuan Technology Co., Ltd.
72: Jiyun Shen, Xiuqin Hu
54: AN AUTOMATIC FOLDING DEVICE FOR RICE SEEDLING TRAY
00: -

The invention discloses an automatic folding device for rice seedling tray for a seedling tray, which relates to the technical field of mechanical equipment, including a conveyor supporting bracket. A roller conveyor is fixed on the top of the conveyor supporting bracket, and a lifting platform frame is fixed on the front end of the left side of the conveyor supporting bracket. The four corners of the lifting platform frame are vertically fixed with a sliding rod, and the top of the sliding rod is fixed with a top plate. The invention is used to push a pallet from a roller conveyor to a lifting platform in the process. When the tray moves to the top of the lifting platform, the spring pushes the sliding block to slide on the sliding rail according to its own elastic action. The distance between the sliding blocks is decreasing, resulting in a decreasing angle between the rotating rods, which pushes the stop plate in the direction of both sides of the tray. This allows the auxiliary buffer ball block on the limiting plate to contact both sides of the tray, thereby limiting it to be fixed. This avoids stacking the pallets too high and thus causing tipping, increasing the utility of the device.

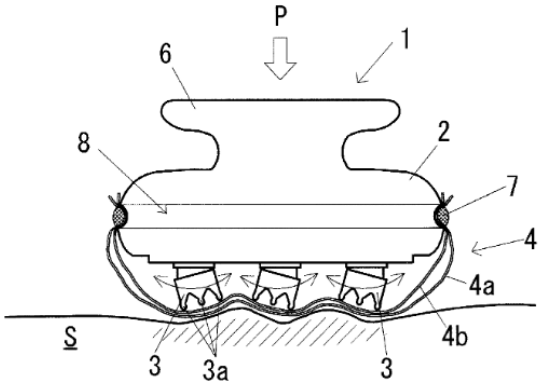


21: 2023/10970. 22: 2023/11/28. 43: 2024/05/28
51: H01Q
71: BICK, Anthony Aaron, FANAROFF, Stanley
72: BICK, Anthony Aaron, CONFAIT, Jean-Pierre Julius, HE, Chengmin
33: ZA 31: 2021/03489 32: 2021-05-24
54: A SUPPORT FOR A DIPOLE CONNECTOR
00: -

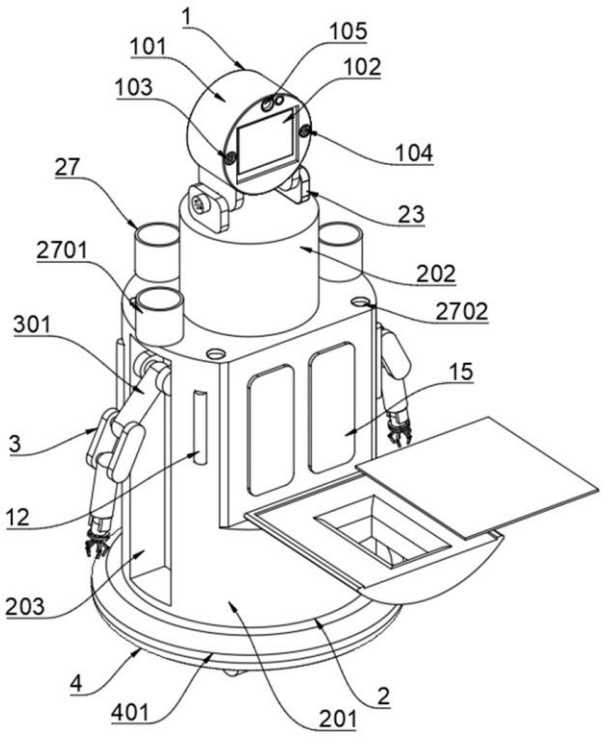
The invention relates to a support (1) for a dipole connector of a grid antenna. The support includes abase (3) for engagement with a grid component. A recess (11) extends under a retaining lip (13) to pivotably receive and retain a first bar (15) on the grid component. A catch (19) for a second bar (17) is spaced apart from and opposite to the recess. The catch has a head with a guiding surface that directs the second bar over the head to deform the catch for location of the second bar past the head and behind a retaining shoulder in an undercut of the catch. The support is moulded from plastics material with the lip and the catch formed integrally with the base.



21: 2023/10972. 22: 2023/11/28. 43: 2024/05/28
51: A46B; A61H
71: LAND BUSINESS CO., LTD.
72: KAMEI, Masamichi
33: JP 31: 2021-103745 32: 2021-06-23
54: MASSAGING DEVICE
00: -
A massaging device 1 according to the present invention comprises: a plurality of brush-like stimulation units 3 attached to a lower surface of a body unit 2, the stimulation units 3 each having a plurality of protrusions 3a; and a drive means provided inside the body unit 2 for vibrating or oscillating the stimulation units 3. By activating the drive means and pressing the protrusions 3a of the stimulation units 3 against the surface of skin, it is possible to apply stimulation to the skin and an area under the skin in a pressed state, providing a massaging effect. In such configuration, tip ends of the stimulation units 3 are covered by a sheet-like protective film 4 including a plurality of layers of films 4a and 4b that are slidable on each other in an in-plane direction. Because the tip ends of the stimulation units 3 are covered by the protective film 4, for example, it is possible to prevent the protrusions 3a of the stimulation units 3 from catching hair when used for scalp stimulation, and to prevent the protrusions 3a from damaging the skin when excessive force is applied to the stimulation units 3.



21: 2023/10981. 22: 2023/11/28. 43: 2024/05/28
51: B25J
71: XIANGYA HOSPITAL CENTRAL SOUTH UNIVERSITY
72: ZHOU, Xiaoxi, LIU, Shengqi, MA, Yanxin, CHEN, Yuling
33: CN 31: 202310079342.6 32: 2023-02-08
54: INTERACTIVE EMOTIONAL ROBOT SUITABLE FOR THE ELDERLY
00: -
The present invention discloses an interactive emotional robot suitable for the elderly, which specifically relates to a technical field of interactive emotional robot, comprising a head, a body, hands and a foot of the robot; the head comprises a round plate; a tablet, a speaker, a microphone, an infrared camera and a thermal imaging camera are embedded on a front end of the round plate for interaction with the elderly. The present invention takes pictures of the elderly's face by the infrared camera, after collecting the elderly's voice to send it to a processing component for processing by the microphone, someone chat with the elderly by the speaker, at the same time two manipulators make some movements, and the elderly's families can use a mobile phone to connect with the processing component by the network and control the robot to use their home language to have remote video chat with the elderly, which enables the elderly with different communication abilities to have emotional interaction with their families, and families can also interact with the elderly by small games in the tablet to improve emotional atmosphere when the elderly communicate with their families.

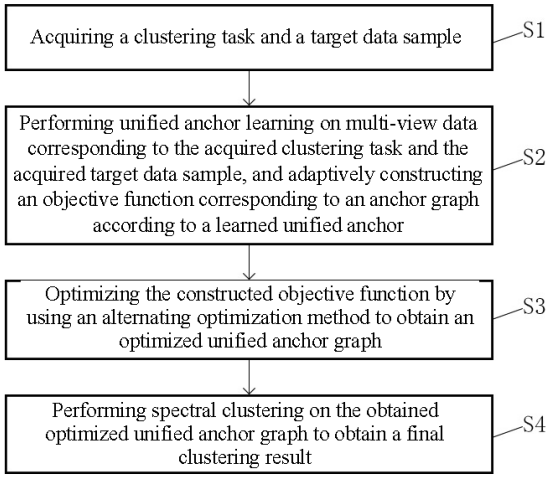


21: 2023/10982. 22: 2023/11/28. 43: 2024/05/28
51: G06K
71: ZHEJIANG NORMAL UNIVERSITY
72: ZHU, Xinzhong, XU, Huiying, LI, Miaomiao, TU, Wenxuan, SUN, Mengjing, LI, Hongbo, YIN, Jianping, ZHAO, Jianmin
33: CN 31: 202110706960.X 32: 2021-06-24
33: CN 31: 202111326414.X 32: 2021-11-10

54: SPECTRAL CLUSTERING METHOD AND SYSTEM BASED ON UNIFIED ANCHOR AND SUBSPACE LEARNING

00: -

The present application discloses a spectral clustering method and system based on unified anchor and subspace learning. The spectral clustering method based on unified anchor and subspace learning, to which the present application relates, comprises: S1: acquiring a clustering task and a target data sample; S2: performing unified anchor learning on multi-view data corresponding to the acquired clustering task and the acquired target data sample, and adaptively constructing an objective function corresponding to an anchor graph according to a learned unified anchor; S3: optimizing the constructed objective function by using an alternating optimization method to obtain an optimized unified anchor graph; and S4: performing spectral clustering on the obtained optimized unified anchor graph to obtain a final clustering result.



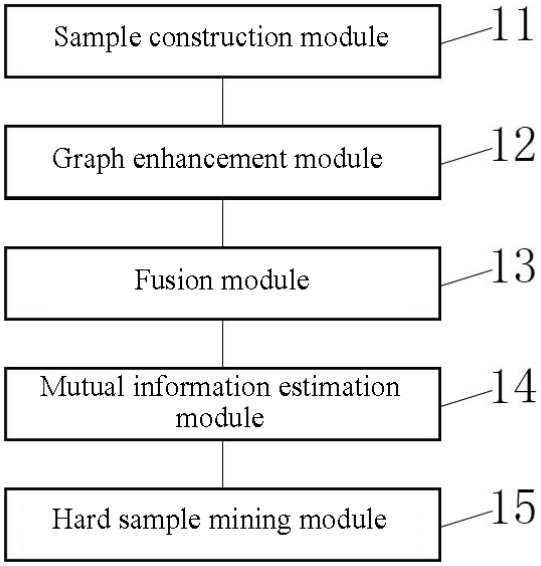
21: 2023/10983. 22: 2023/11/28. 43: 2024/05/28
51: G06K; G06N
71: ZHEJIANG NORMAL UNIVERSITY
72: ZHU, Xinzhong, XU, Huiying, LI, Miaomiao, TU, Wenxuan, LI, Hongbo, ZHANG, Changwang, YIN, Jianping
33: CN 31: 202110706945.5 32: 2021-06-24

54: CITATION NETWORK GRAPH REPRESENTATION LEARNING SYSTEM AND METHOD BASED ON MULTI-VIEW CONTRASTIVE LEARNING

00: -

The present application discloses a citation network graph representation learning system and method based on multi-view contrastive learning. The citation network graph representation learning system involved in the present application comprises: a sample construction module, which is configured to take an original graph node representation as a positive sample, and construct a corresponding negative sample based on an original graph; a graph enhancement module, which is configured to enhance a node feature of the positive sample based on a personalized page ranking algorithm and a Laplacian smoothing algorithm, so as to obtain a positive sample graph and a negative sample graph; a fusion module, which is configured to extract a positive sample graph representation and a negative sample graph representation based on an encoder, integrate the positive sample graph representation and the negative sample graph

representation, and obtain a consensus representation of the positive sample graph and the negative sample graph by means of a cross view concentration fusion layer; a mutual information estimation module, which is configured to compare learning representations of positive sample pairs and negative sample pairs by means of a discriminator; and a hard sample mining module, which is configured to represent the consistency between the negative sample pairs according to a pre-calculated affinity vector, and select and reserve nodes that have more difficulty in expressing global or neighbor information.

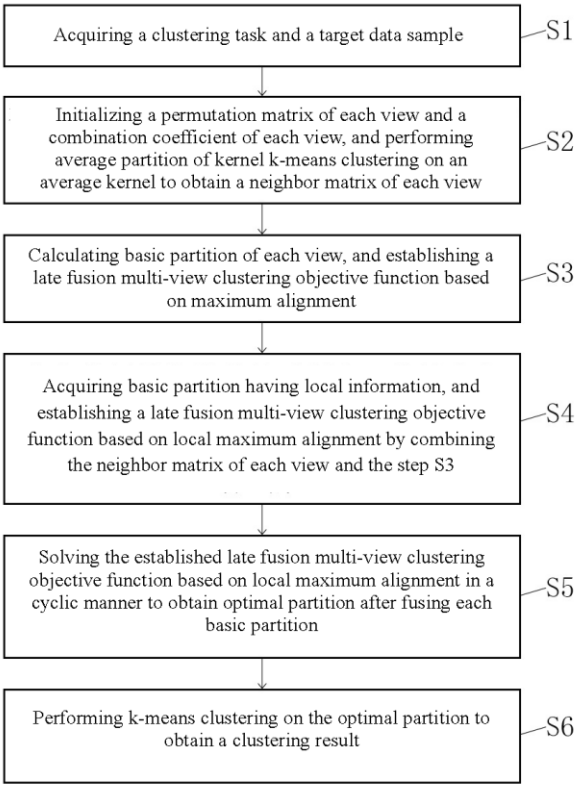


21: 2023/10984. 22: 2023/11/28. 43: 2024/05/28
51: G06K; G06N
71: ZHEJIANG NORMAL UNIVERSITY
72: ZHU, Xinzhong, XU, Huiying, LI, Miaomiao, LIANG, Weixuan, LI, Hongbo, YIN, Jianping, ZHAO, Jianmin
33: CN 31: 202110706944.0 32: 2021-06-24
33: CN 31: 202111326425.8 32: 2021-11-10

54: LATE FUSION MULTI-VIEW CLUSTERING METHOD AND SYSTEM BASED ON LOCAL MAXIMUM ALIGNMENT

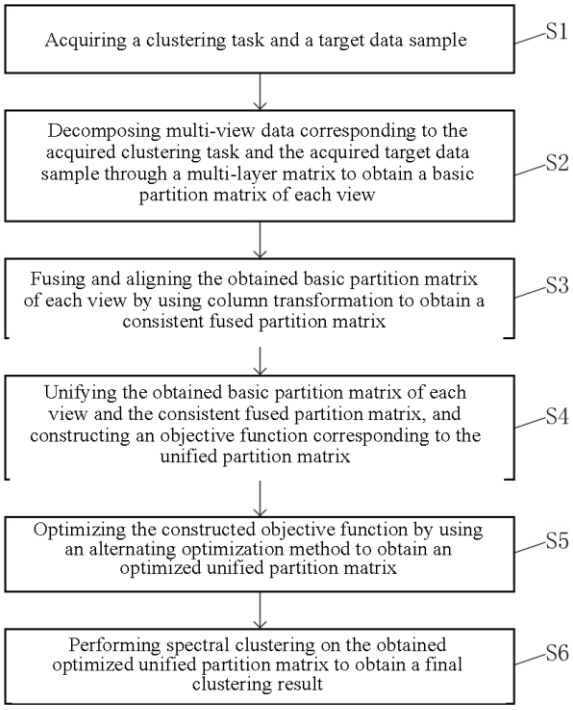
00: -

The present application discloses a late fusion multi-view clustering method and system based on local maximum alignment. The late fusion multi-view clustering method based on local maximum alignment comprises the following steps: S1: acquiring a clustering task and a target data sample; S2: initializing a permutation matrix of each view and a combination coefficient of each view, and performing average partition of kernel k-means clustering on an average kernel to obtain a neighbor matrix of each view; S3: calculating basic partition of each view, and establishing a late fusion multi-view clustering objective function based on maximum alignment; S4: acquiring basic partition having local information, and establishing a late fusion multi-view clustering objective function based on local maximum alignment by combining the neighbor matrix of each view and the step S3; S5: solving the established late fusion multi-view clustering objective function based on local maximum alignment in a cyclic manner to obtain optimal partition after fusing each basic partition; and S6: performing k-means clustering on the optimal partition to obtain a clustering result.

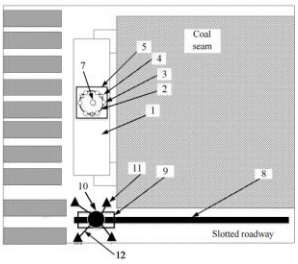


21: 2023/10985. 22: 2023/11/28. 43: 2024/05/28
51: G06K
71: ZHEJIANG NORMAL UNIVERSITY
72: ZHU, Xinzhong, XU, Huiying, LI, Miaomiao, TU, Wenxuan, ZHANG, Chen, LI, Hongbo, YIN, Jianping, ZHAO, Jianmin

33: CN 31: 202110705655.9 32: 2021-06-24
33: CN 31: 202111326424.3 32: 2021-11-10
54: MULTI-VIEW CLUSTERING METHOD AND SYSTEM BASED ON MATRIX DECOMPOSITION AND MULTI-PARTITION ALIGNMENT
00: -
The present application discloses a multi-view clustering method and system based on matrix decomposition and multi-partition alignment. The multi-view clustering method based on matrix decomposition and multi-partition alignment in the present application comprises: S1: acquiring a clustering task and a target data sample; S2: decomposing multi-view data corresponding to the acquired clustering task and the acquired target data sample through a multi-layer matrix to obtain a basic partition matrix of each view; S3: fusing and aligning the obtained basic partition matrix of each view by using column transformation to obtain a consistent fused partition matrix; S4: unifying the obtained basic partition matrix of each view and the consistent fused partition matrix, and constructing an objective function corresponding to the unified partition matrix; S5: optimizing the constructed objective function by using an alternating optimization method to obtain an optimized unified partition matrix; and S6: performing spectral clustering on the obtained optimized unified partition matrix to obtain a final clustering result.



21: 2023/10989. 22: 2023/11/29. 43: 2024/05/30
51: G01C
71: Anhui Science And Technology University
72: CAO, Bo, GAO, Shang, WANG, Jian, ZHANG, Gang, CAO, Zichao, ZHANG, Chao
54: DEVICE FOR CALIBRATING POSE OF END OF COALCUTTER BASED ON INTEGRATION OF IMU AND UWB
00: -
Disclosed is a device for calibrating a pose of an end of a coalcutter based on integration of IMU and UWB. The device includes a coalcutter body, an annular fixing device, an anti-explosion housing, a principal inertial navigation and positioning device, a high-precision attitude sensor, a data display system, an industrial personal computer, a data processor, a UWB positioning system, an IMU positioning system, an autonomous base station group migration system, and a hydraulic elevation system. After the end of the coalcutter is positioned, a base station group is controlled by the base station group autonomous migration system to self-migrate. The end of the coalcutter is positioned by means of IMU and UWB in an annular array, and the pose of the principal inertial navigation and positioning device is self-calibrated by means of a positioning result.



21: 2023/10990. 22: 2023/11/29. 43: 2024/05/30
51: A23L
71: GAO, Yang
72: XU, Duoduo, ZHENG, Wei, ZHANG, Yanqiu, LI, Yinqing, LV, Guangfu, LU, Jing

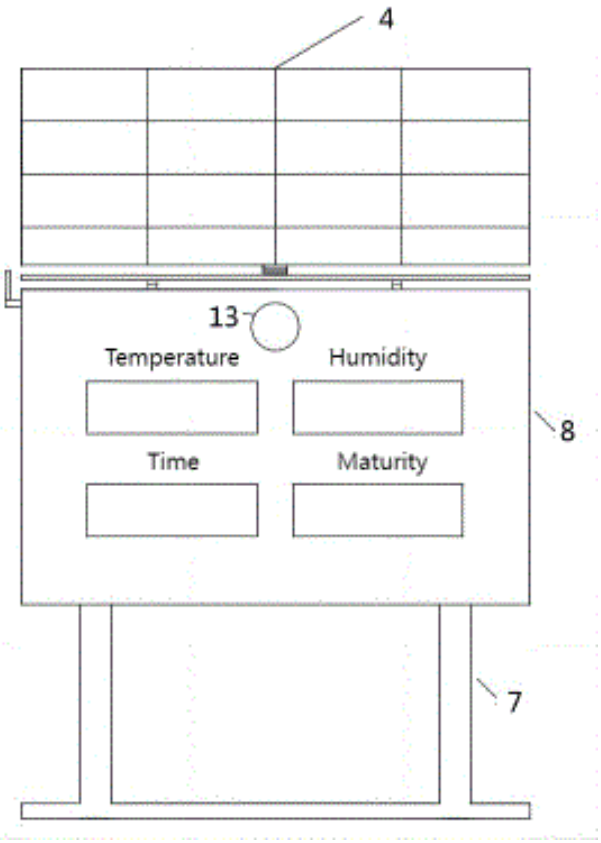
54: PREPARATION METHOD OF PREPARATION USING FRESH MEDICINAL AND EDIBLE PLANT AS RAW MATERIAL AND APPLICATION

00: -
The present invention provides a preparation method of a preparation using a fresh medicinal and edible plant as a raw material and application, which fall within the technical field of plant raw material processing. The present invention uses a fresh medicinal and edible plant as a raw material. After the raw material is subjected to acidification treatment, the acidified plant is ground in water or an aqueous ethanol solution to obtain an extraction solution, and the extraction solution is successively subjected to vacuum concentration under reduced pressure and wet granulation or drying to obtain an instant preparation. The preparation method of the present invention can be completed within 3 h, and the preparation method has a more efficient extraction process than the conventional preparation method and can effectively increase the effective substance content in the plant extract.

21: 2023/10991. 22: 2023/11/29. 43: 2024/05/30
51: G01D
71: Harbin Institute of Technology, Changchun Jianye Group Co., Ltd.
72: Long WANG, Xiaoguang XIE, Fengxia JIANG, Shida CHEN, Xiaobing XU, Hongmei LI, Jiashu LI

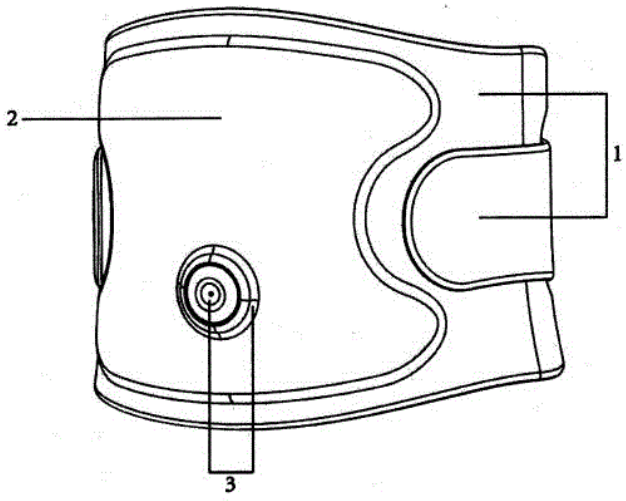
54: INTELLIGENT MONITORING AND EARLY WARNING APPARATUS FOR SEMI-RIGID BASE BASED ON HIPERPAV

00: -
The invention discloses a semi-rigid base health quality intelligent monitoring and early warning device, which includes six parts: a temperature and humidity sensor, a single chip microcomputer, a LED display screen, a solar panel, a signal transmitter, and an aluminum signboard; the port of the temperature and humidity sensor is connected to the input end of the single chip microcomputer; the LED display screen is connected to the output end of the single chip microcomputer; the solar panel is connected to the battery, the battery is connected to the controller, and the controller is connected to the single chip microcomputer and the LED display screen through the power converter; the signal transmitter is connected to the single chip microcomputer; the aluminum signboard is composed of an aluminum frame and an aluminum sheet, the aluminum sheet is equipped with the single chip microcomputer, the LED display screen and a signal transmitter, the solar panel is hinged on an upper edge of the aluminum frame. which has the characteristics of convenient operation, light weight, good stability, energy saving, green environmental protection, convenient transportation, low production cost, and reusability.

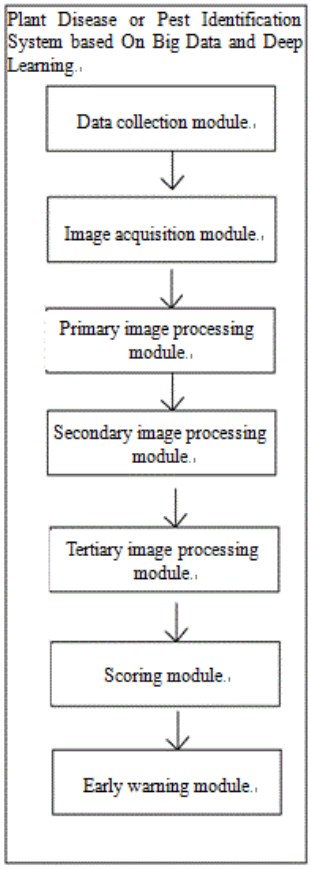


21: 2023/10992. 22: 2023/11/29. 43: 2024/05/30
51: A61B

71: Donghua University
72: WANG Xiyuan, SHI Hao, FU Yuli, JIN Jindi, LU Wendi
54: ARTIFICIAL INTELLIGENCE AUXILIARY MONITORING SYSTEM FOR POSTPARTUM ABDOMINAL RECOVERY
00: -
The invention discloses an artificial intelligence auxiliary monitoring system for postpartum abdominal recovery, which is characterized by comprising an elastic waistband wearing module covering the whole abdomen, wherein an elastic cushion monitoring module is arranged on the elastic waistband wearing module, and a power supply module for supplying power to the elastic cushion monitoring module is arranged on the elastic cushion monitoring module; the elastic cushion monitoring module comprises an elastic cushion, and a flexible printed circuit board for integrating front-end processing and wireless data transmission of abdominal muscle physiological data, a flexible fabric electrode corresponding to the position of abdominal muscle, and an electrode integrated capacitor switch for automatically turning on the power supply after being worn by a user are arranged between the elastic cushion and the elastic waistband wearing module, wherein the electrode integrated capacitor switch is arranged between the flexible printed circuit board and the elastic waistband wearing module. The abdominal support provided by the invention can provide a scientific and continuous monitoring system for postpartum abdominal recovery for postpartum women, and achieve an ideal abdominal recovery effect.



21: 2023/10993. 22: 2023/11/29. 43: 2024/05/30
51: G06K
71: My field (Hainan) Agricultural information Technology Co., LTD
72: Ke Meng, ZHao HongXin, Wu JinLing
33: CN 31: 2023114971359 32: 2023-11-10
54: PLANT DISEASE OR PEST IDENTIFICATION SYSTEM BASED ON BIG DATA AND DEEP LEARNING
00: -
The present disclosure relates to plant disease or pest identification, and discloses a plant disease or pest identification system based on big data and deep learning. A method includes steps of obtaining leaf image information of each plant in a preset region, and determining a leaf growth state based on a relationship between the leaf image information of the plant and a preset range of the leaf image information; when the leaf image information of the plant falls within the preset range, determining the leaf growth state to be good, if the leaf image information goes beyond the preset range, determining the leaf growth state to be poor; obtaining plant disease or pest identification results for plant leaves with the poor growth state, and based on the plant disease or pest identification results, establishing a plant disease or pest early warning score for the plants with the poor leaf growth state; comparing the established plant disease or pest early warning score with a preset plant disease or pest score to determine a plant disease or pest early warning level for the plants with the poor leaf growth state; and effectively identifying a health problem of the plants.

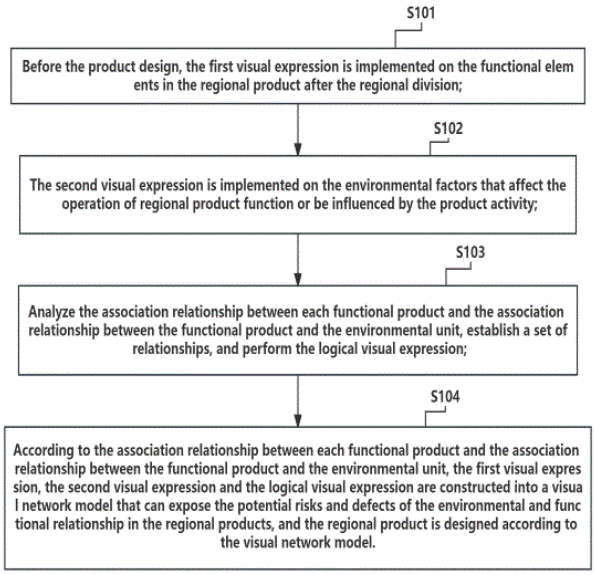


21: 2023/10994. 22: 2023/11/29. 43: 2024/05/30
51: G06F
71: Suzhou Nuclear Power Research Institute Co., Ltd.
72: Chen QING, Xiaohu YANG

54: A REGIONAL PRODUCT DESIGN METHOD BASED ON ASSOCIATION ANALYSIS

00: -

The invention provides a regional product design method based on association analysis, which includes S101, before the product design, the first visual expression is implemented on the functional elements in the regional product after the regional division; S102, the second visual expression is implemented on the environmental factors that affect the operation of regional product function or be influenced by the product activity; S103, based on the association relationship between functional products and environmental factors, the association relationship set is established and the logical visual expression is carried out; S104, based on the above three steps, the visual network model is constructed, and the regional products are designed according to the visual network model. By using the above design method and analyzing multiple quality characteristics, the invention reduces unnecessary work duplication and coordination difficulties in carrying out multiple single characteristic analysis, and improves the efficiency of design analysis.



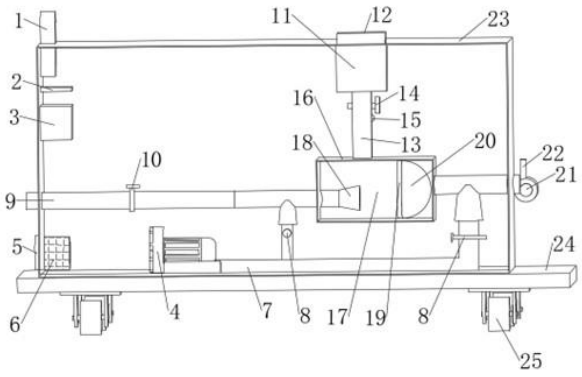
21: 2023/10995. 22: 2023/11/29. 43: 2024/05/30
51: E21F
71: EAST CHINA UNIVERSITY OF TECHNOLOGY, CHINA RAILWAY 11TH BUREAU GROUP CORPORATION LIMITED, CHINA RAILWAY 11TH BUREAU GROUP CITY RAIL ENGINEERING CO., LTD.
72: HE, Ru, WU, Bo, XIAO, Xiao, WAN, Cheng, DOU, Zhongsi, XIAO, Dunke, LIU, Cong, XU, Shixiang

54: DUST REMOVAL DEVICE FOR TUNNEL CONSTRUCTION TRIGGERED BY BLAST VIBRATION SOURCE SHOCK WAVE

00: -

Disclosed is a dust removal device for tunnel construction triggered by a blast vibration source shock wave, comprising a device base, a piezoelectric sensor, a charge amplifier, a main controller, an air pump, a high-pressure air duct, a water inlet pipeline, a solenoid valve, an ejector, an air pressure regulating valve, an air inlet filter screen, an air filter, a foaming agent storage tank, a flow regulating valve, a foaming agent hose, a foaming cavity, a water mist diffusion nozzle head, a foaming net and a spiral nozzle. The invention provides preparation of dust suppression foam with

low use concentration and high foaming ratio. When the dust production volume is low, air-water mist is adopted to reduce dust, and when the dust production volume is large, dust removal measures of foam are adopted. The invention effectively prevents the dispersion of blasting dust by rapid self-starting of the shock wave sensor.

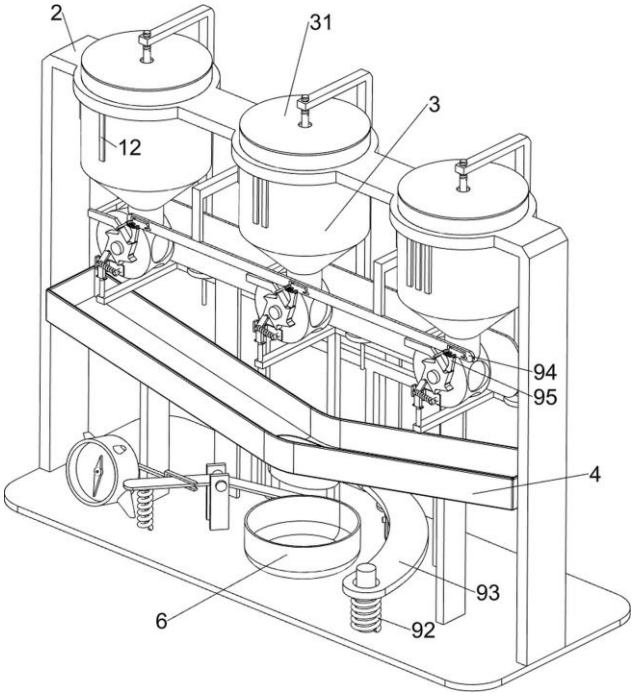


21: 2023/10997. 22: 2023/11/29. 43: 2024/05/30
51: B65D
71: Xiaolei Hu
72: Xiaolei Hu, Ling Tang, Yunqi Ma, Xinwei Yang, Lu Chen

54: A SAFE MEDICINE TAKING DEVICE FOR THE ELDERLY AND A MEDICINE TAKING METHOD

00: -

The invention relates to the field of medical devices, in particular to a safe medicine taking device for the elderly and a medicine taking method. The invention can facilitate the elderly to take medicine quantitatively, and facilitate the elderly to adjust according to their own needs, so as to facilitate the elderly to take medicine accurately. The invention relates to a safe medicine taking device for the elderly and a medicine taking method, which comprises a base and a fixing frame, etc. The top of the base is fixedly connected with a fixing frame. The nurse puts the different pills into three pots. When the elderly need to take medicine, the elderly press down the tilt plate, so that the pill at the bottom of the medicated pot will fall into one of the chutes on the feeding wheel. At the same time, the upward movement of the hexagonal frame will cause a single tablet in one of the feeding slots on the feeding wheel to fall into the cartridge through the blanking hopper. In this way, only one pill falls into the medicated box each time, which can facilitate the elderly to take the medicine quantitatively, and avoid taking too much medicine at one time and causing an unreasonable amount of medicine.



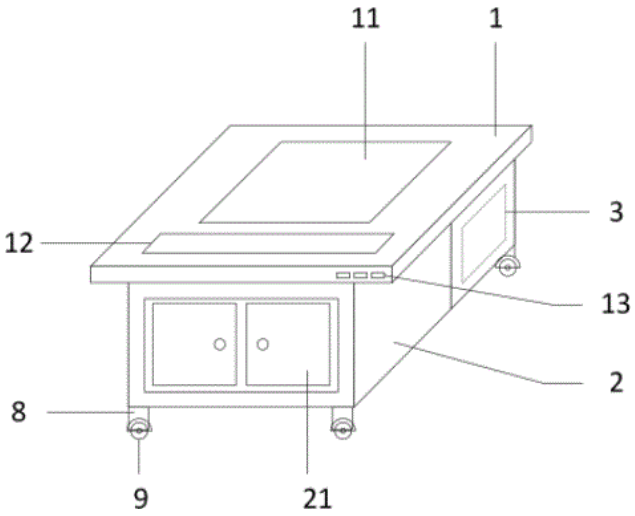
21: 2023/10998. 22: 2023/11/29. 43: 2024/05/30
51: G09B
71: Hunan Industry Polytechnic
72: Xin LIN

54: A VR TEACHING DEVICE BASED ON THE INTEGRATION OF INTELLIGENT TEACHING

00: -

The invention relates to a VR teaching device based on the integration of intelligent teaching, which belongs to the technical field of teaching device. The upper surface of the operation platform is equipped with a touch screen and an operation module for controlling VR glasses, there are multiple operation buttons in the operation module, there are also multiple connection ports for wired transmission on the outer side of the operation platform. Under the operating platform, there is a storage room and a control device connected to the storage room, the storage room is equipped with multiple VR glasses, and the outside of the storage room is equipped with a switch door. The lower parts of the storage room and the control device are provided with the pillar, and the bottom of the pillar is provided with the locked universal wheel. The invention can not only facilitate the control of the virtual scene seen by the students, but also switch the ends of the teacher and

the student at any time, which facilitates the teacher's teaching and improves the teaching efficiency. At the same time, the storage room can also store VR glasses and can be charged, which can protect VR glasses and realize the integration of intelligent teaching devices.

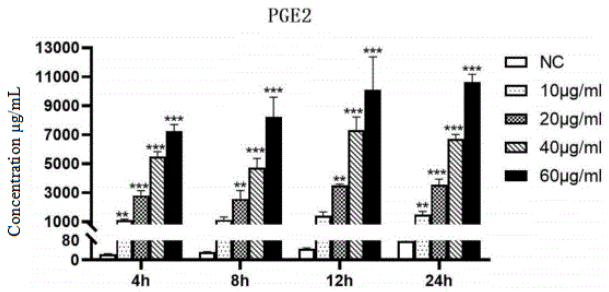


21: 2023/11000. 22: 2023/11/29. 43: 2024/05/30
51: A61P
71: Gansu Agricultural University
72: Yuan Ziwen, Shi Yan, Wei Yanming, Zhu Yamei
33: CN 31: 2022115489532 32: 2022-12-05

54: METHOD FOR ESTABLISHING AN ENTERITIS CELL MODEL AND AN APPLICATION THEREOF

00: -

The invention discloses a method for establishing an enteritis cell model and an application thereof, and belongs to the field of biotechnology. The invention is realized through three steps of cell culture inoculation, arachidonic acid modeling concentration screening and enteritis model establishment. The inducer of the in vitro enteritis cell model provided by the invention is arachidonic acid, and a new in vitro enteritis cell model is established by taking the characteristic secondary metabolites PGE2, LTB4 and cytotoxicity assay as cell model evaluation methods, and continuously intervening NCM-460 cells with 40 μg/mL arachidonic acid for 24 hours. The invention provides a new in vitro model for the rapid screening of new therapeutic drugs for enteritis, the rapid screening of anti-inflammatory drugs and the study of drug action mechanism.

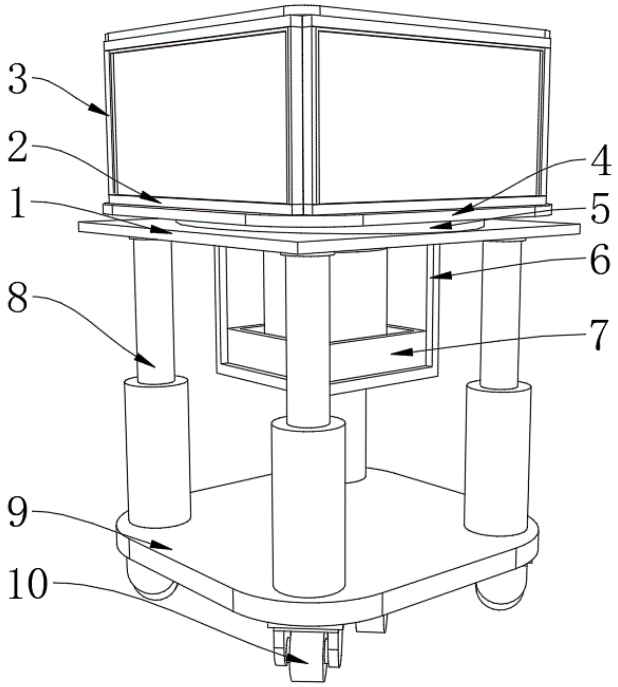


21: 2023/11001. 22: 2023/11/29. 43: 2024/05/30
51: F16M
71: Xi'an Eurasia University
72: Zhao Jun

54: DEVICE FOR DISPLAYING CONTENTS IN A COMPUTER SOFTWARE ENGINEERING TEST

00: -

The present invention provides a device for displaying contents in a computer software engineering test, including a connecting plate. Connecting frames are arranged at a middle position of a bottom of the connecting plate, bottoms of the connecting frames penetrate through and are fixedly connected to a fixed groove, a driving motor is fixedly connected to a bottom of the fixed groove, and an output end of the driving motor penetrates through and is fixedly connected to a rotating disc. In the present invention, a top and a bottom of each of display screens can be fixed by two fixed frames, and left and right sides of each of the display screens can be fixed by two connecting grooves, so that left, right, upper and lower sides of each of the display screens can be protected during display.

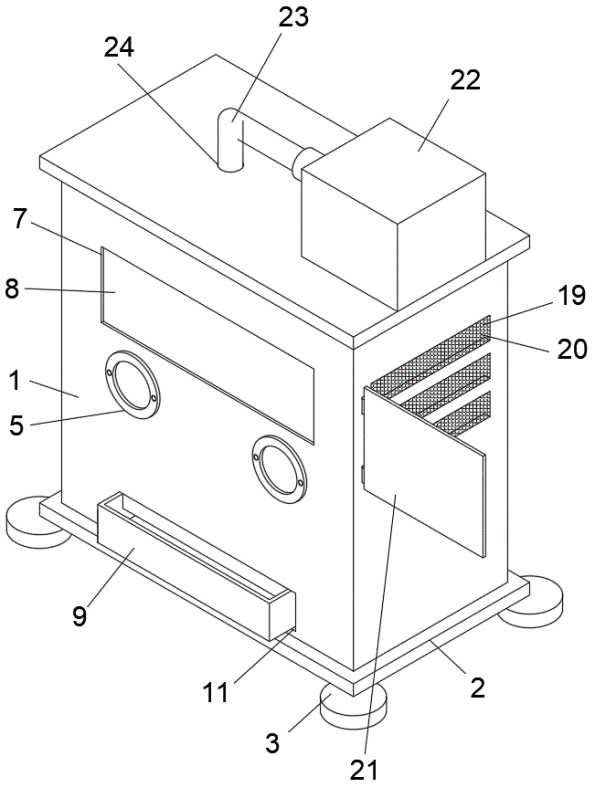


21: 2023/11002. 22: 2023/11/29. 43: 2024/05/30
51: H05K
71: Xinyu University
72: Hu Shaozhong, Hong Yun, Zhou Huiyan

54: MAINTENANCE DEVICE FOR COMMUNICATION ELECTRONIC EQUIPMENT

00: -

Disclosed is a maintenance device for communication electronic equipment, having the following main points of technical solutions. A maintenance box and an operating assembly are included. A base plate is fixedly mounted on a bottom face of the maintenance box; a plurality of rubber pads are mounted on a bottom face of the base plate; a dust proof plate is arranged on one side of the maintenance box, and the dust proof plate is connected to the maintenance box via hinges; and a plurality of wire holes are disposed on one side of the maintenance box. The operating assembly is arranged at an interior of the maintenance box for maintaining electronic equipment. By arranging operating gloves, a staff inserts hands into the operating gloves to disassemble and maintain the communication electronic equipment after opening the dust proof plate to place the communication electronic equipment into the maintenance box. The staff can observe through a transparent glass. Parts used and replaced can be passed through a part box, thus preventing dust from outside from falling onto the exposed parts of the communication electronic equipment when the communication electronic equipment is disassembled, affecting the service life of the communication electronic equipment.



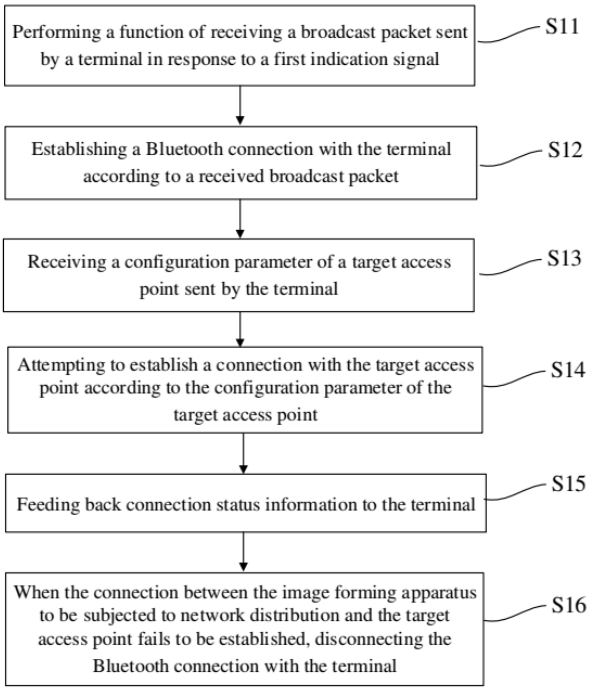
21: 2023/11003. 22: 2023/11/29. 43: 2024/05/30
51: H04W
71: ZHUHAI PANTUM ELECTRONICS CO., LTD.
72: PENG, Jibing, YANG, Zongxin
33: CN 31: 2022115746743 32: 2022-12-08
33: CN 31: 2023104586425 32: 2023-04-25

54: NETWORK DISTRIBUTION METHOD, NETWORK DISTRIBUTION DEVICE, IMAGE FORMING APPARATUS, TERMINAL AND MEDIUM

00: -

The present application discloses a network distribution method of an image forming apparatus, a network distribution device, an image forming apparatus, a terminal, and a medium, where the network distribution method includes: performing a function of receiving a broadcast packet sent by a terminal in response to a first indication signal; establishing a Bluetooth connection with the terminal

according to a received broadcast packet; receiving a configuration parameter of a target access point sent by the terminal; and attempting to establish a connection with the target access point according to the configuration parameter of the target access point. The image forming apparatus of the present application turns on a Bluetooth scanning function only after responding to the first indication signal, which saves energy consumption and avoids an influence on a network distribution process due to that the image forming apparatus receives an interference data packet in a complex communication environment.

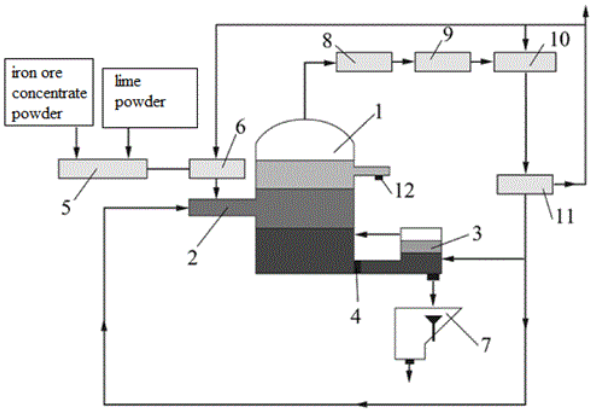


21: 2023/11004. 22: 2023/11/29. 43: 2024/05/30
51: C21B
71: China Iron & Steel Research Institute Group Co., LtD., Automation Research and Design Institute of Metallurgical Industry Co., LtD.
72: HAO Xiaodong, YANG Guanghao, ZHOU Hemin, ZHANG Jun
33: CN 31: 202211741085.X 32: 2022-12-30

54: AN ELECTROHYDROGEN EFFICIENT CONVERSION REDUCTION SMELTING DEVICE AND METHOD

00: -

The present invention discloses an electrohydrogen efficient conversion reduction smelting device and method, belonging to a field of metallurgy technology, which adopts pure hydrogen as a reducing agent, and functionally partitions pre-reduction and deep reduction to obtain high purity molten iron. The electrohydrogen efficient conversion reduction smelting device includes a multi-zone induction furnace, the multi-zone induction furnace includes a first zone, a second zone and a third zone; the second zone and the third zone are located on both sides of the first zone, the second zone is located in the middle and lower portion of the first zone, and the second zone is directly connected to the first zone; the third zone is connected to the bottom of the first zone by a sliding gate; during reduction smelting, the second zone is used as a slag-iron layer smelting zone, and the first zone is divided into a pre-reduced molten iron layer, a slag-iron layer reduction zone and a molten slag layer from the bottom to top; the slag-iron layer smelting zone is connected to the slag-iron layer reduction zone; and the third zone is divided into a deep-reduced molten iron layer and a refining slag layer from bottom to top. High purity molten iron can be obtained by the device of the present invention through reduction and smelting.



21: 2023/11011. 22: 2023/11/29. 43: 2024/05/30
51: A23L; A61K
71: JILIN AGRICULTURAL UNIVERSITY
72: WANG, Liyan, YANG, Siyu, JIANG, Guochuan

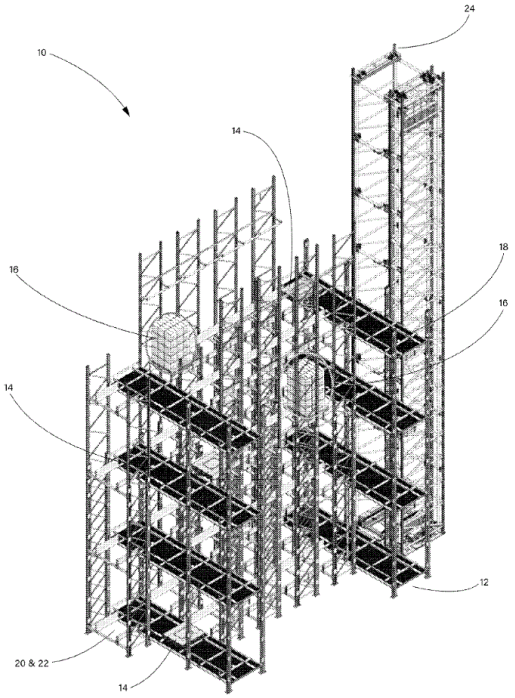
54: HIGH-PROTEIN LOW-FAT PORK SAUSAGE WITH GANODERMA LUCIDUM SPORE POWDER AND AURICULARIA CORNEA AND PREPARATION METHOD THEREFOR

00: -

The present invention belongs to the technical field of sausage food, and relates to a high-protein low-fat

pork sausage with Ganoderma lucidum spore powder and Auricularia cornea and a preparation method therefor. The sausage is prepared from the following raw materials: Ganoderma lucidum spore powder, Auricularia cornea, pork, salt, white sugar, pork powder essence, d-sodium erythorbate, star anise powder, dried ginger powder, clove powder, sesame oil, maltodextrin, cooking wine and water. The prepared pork sausage with Ganoderma lucidum spore powder and Auricularia cornea has the characteristics of crisp taste, high nutritional value, high protein content, low fat content and the like.

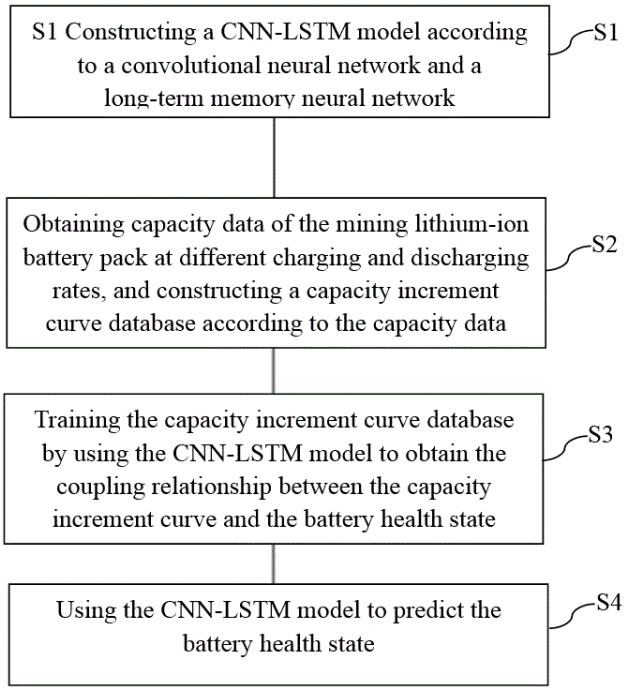
21: 2023/11026. 22: 2023/11/29. 43: 2024/05/30
51: B65G; G01C; G06Q
71: PATOU INVESTMENTS (PTY) LTD
72: WOLFF, Tudor Drummond
33: ZA 31: 2021/04582 32: 2021-07-01
54: METHOD OF ROUTE MANAGEMENT
00: -
A method of route management includes the steps of: (i) providing a plurality of vehicles; (ii) providing pathways along which the vehicles may travel; (iii) determining the current position of each of the vehicles; (iv) associating a destination with each of the vehicles; and (v) determining a first optimal route and speed profile for each vehicle from their current position to the destination, which first optimal route and speed profile for each vehicle is: determined to avoid collision between vehicles; and based on a total efficiency rating for all the vehicles.



21: 2023/11028. 22: 2023/11/29. 43: 2024/05/30
51: C04B
71: CHRYSO
72: KOCABA, Vanessa, AUTIER, Caroline
33: FR 31: 2106078 32: 2021-06-09
54: ADJUVANT FOR INCREASING THE SHORT-TERM MECHANICAL STRENGTH OF A HYDRAULIC COMPOSITION WITH A REDUCED CLINKER CONTENT
00: -
The present invention relates to the use, for improving the mechanical strength of a hydraulic composition based on a cement composition comprising: - from 20 to 64 % by weight of clinker, - from 5 to 60 % by weight of activated clay, - from 0 to 35 % by weight of limestone, - from 0 to 10 % by weight of calcium sulfate, the proportions being relative to the dry weight of the cement composition, of from 0.2 to 5.0 % by weight relative to the dry weight of cement composition, preferably from 0.2 to 1.0 % by weight relative to the dry weight of cement composition, of at least one adjuvant comprising at least one alkali metal salt chosen from alkali metal formate, carbonate, chloride, hydroxide, oxalate, thiocyanate, silicate, sulfate or nitrate salts, or a mixture thereof.

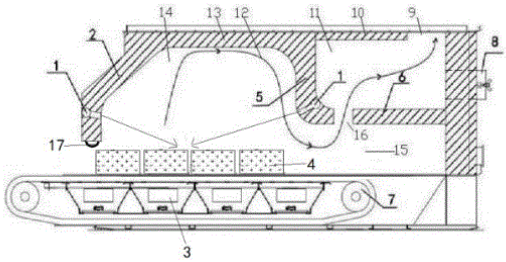
21: 2023/11052. 22: 2023/11/30. 43: 2024/05/30

51: G01R
71: ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY, HUAINAN NORMAL UNIVERSITY
72: FENG Juqiang, CAI Feng, HUANG Kaifeng, WU Long, ZHANG Xing, ZHANG Shaoning
54: METHOD FOR ESTIMATING HEALTH STATE OF MINING LITHIUM-ION BATTERY PACK BASED ON CAPACITY INCREMENT CURVE
00: -
The invention discloses a method for estimating the health state of a mining lithium ion battery pack based on a capacity increment curve, which includes the following steps: S1, constructing a CNN-LSTM model according to a convolutional neural network and a long-term memory neural network; obtaining capacity data of the mining lithium-ion battery pack at different charging and discharging rates, and constructing a capacity increment curve database according to the capacity data; training the capacity increment curve database by using the CNN-LSTM model to obtain the coupling relationship between the capacity increment curve and the battery health state; and using the CNN-LSTM model to predict the battery health state. The method for monitoring the health state of the mining lithium-ion battery pack based on the capacity increment curve can accurately and stably predict the health state of the battery. It has high accuracy and stability, and can provide a strong guarantee for safe production and normal operation of equipment in mines.



21: 2023/11053. 22: 2023/11/30. 43: 2024/05/30
51: F23M
71: Henan Agricultural University, HENAN BOILER AND PRESSURE VESSEL INSPECTION TECHNOLOGY RESEARCH INSTITUTE, Henan Province Sitong Boiler Co., Ltd.
72: LIU, Shengyong, MA, Jiangdong, WEN, Ping, SUN, Zhongren, QING, Chunyao, ZHAO, Xiangnan, MA, Jiang, FENG, Kun, FENG, Shaohua, TAO, Hongge, HUANG, Li, QIN, Lichen, FENG, Wei, MA, Zongguang, LU, Jie, XU, Yanshen, YU, Shaoying, LIU, Tingting, MA, Zhuohui
54: FURNACE STRUCTURE OF CHAIN-GRATE BOILER ACHIEVING BALED BIOMASS COMBUSTION
00: -
Disclosed is a furnace structure of a chain-grate boiler achieving baled biomass combustion. The furnace structure includes a front arch, a middle arch and a rear arch arranged above a chain grate stoker, where a fuel lay area is arranged on the chain grate stoker; the middle arch is composed of a vertical flame folding wall, the rear arch is composed of a transverse wall, and an arch top is arranged between the front arch and the middle arch; and a first combustion chamber is arranged between the front arch and the middle arch, a second combustion chamber is formed among the middle arch, the rear arch and the chain grate stoker, a vertical rear furnace wall is arranged at a rear side of the rear

arch, and a third combustion chamber is arranged among the middle arch, the rear arch and the rear furnace wall.

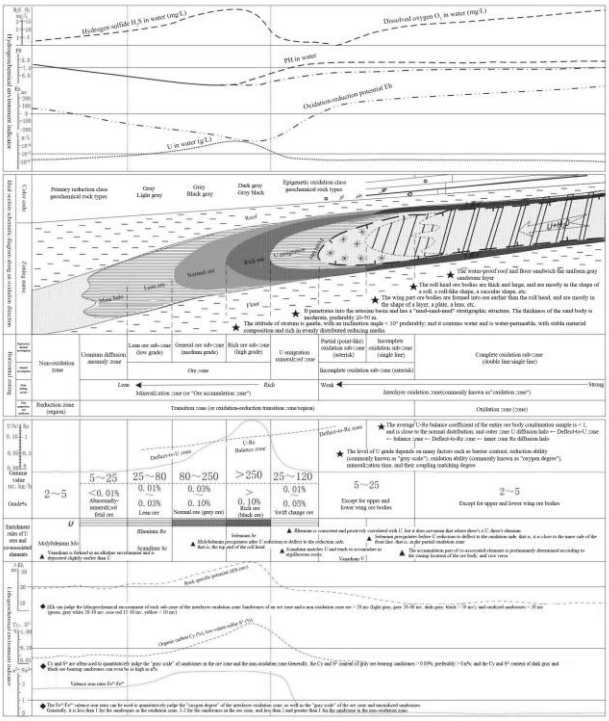


21: 2023/11057. 22: 2023/11/30. 43: 2024/05/30
51: G01V
71: CNNC GEOLOGIC PARTY NO .208
72: WANG, Hui, SHEN, Kefeng, YAN, Pengbing, LIU, Guoning
33: CN 31: 2022115375052 32: 2022-12-02

54: METHOD FOR STUDYING AND JUDGING ZONATION AND ORE-BEARING POTENTIAL OF OXIDATION ZONE OF IN-SITU LEACHING SANDSTONE TYPE URANIUM ORE

00: -

The present invention discloses a method for studying and judging zonation and an ore-bearing potential of an oxidation zone of in-situ leaching sandstone type uranium ore, which comprises: determining a studying and judging region according to a lithogeochemical environment indicator and a hydrogeochemical environment indicator, etc., and making rock and hydrology environment indicator variation curves, determining oxidation intensity, reduction capacity, a stratigraphic structure, a lithological phase change and radioactivity intensity of a target horizon of a uranium ore deposit, further determining locations and distribution conditions of a roof and a floor of a sand body, as well as an upper wing and a lower wing of an ore body, and making a gamma exposure rate contour map for each horizon; selecting a representative trunk section of an exploration line to make a rock environment indicator variation curve of the target horizon through the lithogeochemical environment indicator; making an oxidation rate contour map of the target horizon by using an oxidation zone of the target horizon; and analyzing oxidation intensity, reduction capacity, a stratigraphic structure, a lithological phase change and radioactivity intensity of each zone, and analyzing the ore-bearing potential of the oxidation zone and an ore zone. The present invention can provide a basis for hole layout and forecast a front line of the oxidation zone, and can guide accurate and efficient borehole layout during drilling exploration.



21: 2023/11058. 22: 2023/11/30. 43: 2024/05/30
51: A23K
71: INSTITUTE OF TROPICAL BIOSCIENCE AND BIOTECHNOLOGY, CHINESE ACADEMY OF TROPICAL AGRICULTURAL SCIENCES
72: SUN, Haiyan, GUO, Niu, YANG, Jinghao, ZHAO, Pingjuan

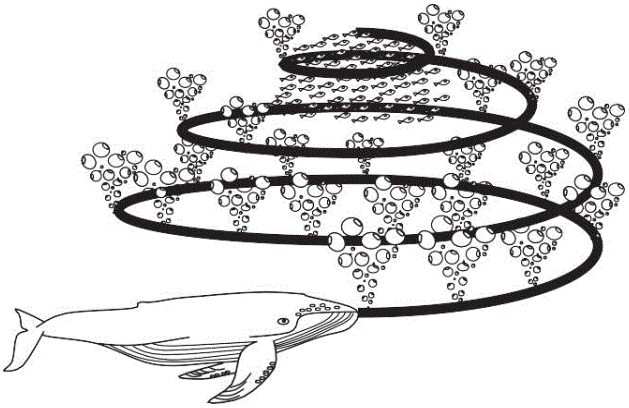
54: PREPARATION METHOD FOR CASSAVA RESIDUE FERMENTED FEED AND APPLICATION

00: -

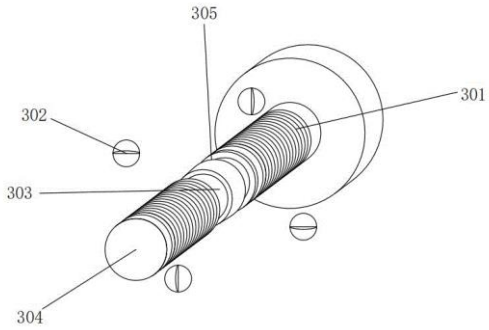
The present invention discloses a preparation and application method for a cassava residue fermented feed. The preparation method comprises the following steps: mixing a mixed microbial solution and an enzyme preparation evenly, and then mixing the solution with cassava residues for temperature controlled fermentation; and drying, crushing and screening the fermented material to prepare the cassava residue fermented feed, wherein the enzyme preparation is composed of cellulase and amylase, wherein the mixed microbial solution is formed by mixing microbial solutions of Aspergillus niger, Bacillus subtilis, Saccharomyces cerevisiae and Enterococcus faecalis. The cassava residue

fermented feed prepared by the preparation method provided by the present invention is rich in organic acids, various digestive enzymes, vitamins and a large number of probiotics, is a safe and easily absorbed animal feed capable of promoting animal feeding and improving animal immunity, and achieves good effects after application in breeding of pigs and Wenchang broilers.

21: 2023/11059. 22: 2023/11/30. 43: 2024/05/30
51: G06T
71: Changsha Social Work College
72: LEI Xiangxiao, TANG Chunxia, XU Lijuan
54: IMAGE SEGMENTATION METHOD BASED ON IMPROVED WHALE ALGORITHM AND KERNEL FUZZY C-MEANS CLUSTERING
00: -
An image segmentation method based on improved whale algorithm and kernel fuzzy C-means clustering, by inputting the image, setting parameters, initializing whale position, calculating the fitness value of each whale, determining asynchronous communication mechanism, and finally outputting the optimal whale position; the invention introduces asynchronous communication strategy and selection mechanism to improve the whale algorithm, so as to further improve the convergence speed and accuracy of the algorithm; the synthetic aperture radar image is segmented. The test results show that the algorithm has good segmentation quality and can segment SAR images quickly.



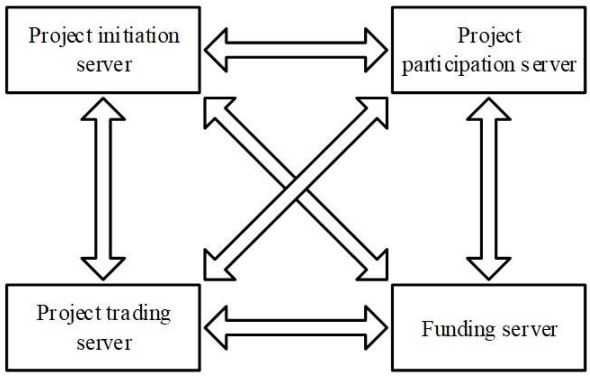
21: 2023/11060. 22: 2023/11/30. 43: 2024/05/30
51: A61F
71: Jingri Jin
72: Jingri Jin, Yanqun Liu, Hongri Li, Baojian Zhang, Mingjun Piao, Haifeng Li, Yanhu Zhang
54: A GLENOID PROSTHESES SYSTEM
00: -
A glenoid prostheses system comprises a mounting base and a connecting rod. The bottom end of the mounting base is fixed and connected with a connecting rod, and the bottom of the connecting rod is provided with a connecting structure. The connecting structure comprises a first connecting bolt, and an outer wall of the first connecting bolt is connected with a connecting rod screw. The first connecting bolt, round rod, conical block and second connecting bolt are inserted into the connection rod. The mounting base is then fixed to the skeleton by tightening the first connecting bolt and the second connecting bolt. At this point, the conical block pushes the spherical limiting block outward, so that the spherical limiting block is tight against the patient's bone. At the same time, it is pressed against the conical block, thus increasing the friction between the conical block and the spherical limiting block and the spherical limiting block and the patient's bone. This reduces the likelihood of loosening of the glenoid prostheses over a long period of use.



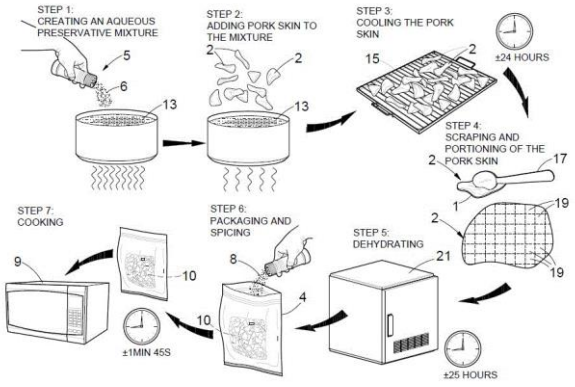
21: 2023/11061. 22: 2023/11/30. 43: 2024/05/30
51: A61K
71: Jinan Fruit Research Institute, All China Federation of Supply and Marketing Cooperatives
72: Maoyu Wu, Xiaodong Zheng, Susu Yu, Xinhuan Yan, Xuemei Liu, Shaoxiang Pan, Mengnan Tan, Ning Cao, Ye Song, Di Ma, Zhicheng Li
54: METHOD AND APPLICATION OF SEPARATION OF SAPONINS FROM ASPARAGUS PROCESSING WASTE
00: -
The invention belongs to the technical field of saponins extraction, in particular to a method and application of separation of saponins from

asparagus processing waste. The invention uses asparagus processing waste as raw material to prepare asparagus saponins, which mainly comprises the following steps: a. Waste pre-treatment. b. Foam separation. c. Vacuum evaporation. d. Freeze drying. The invention uses white sugar to improve the foaming efficiency, and the saponins recovery rate is increased by 16.4 percentage points compared with the method without adding white sugar. At the same time, the invention does not need to add organic solvent, and the method is simple, low energy consumption and green and pollution-free.

21: 2023/11062. 22: 2023/11/30. 43: 2024/05/30
51: G06Q
71: ZHEJIANG UNIVERSITY
72: LU, Wencong, QIAN, Wenxin, CHEN, Junru
54: BLOCKCHAIN-BASED TRADING SYSTEM
00: -
Disclosed is a blockchain-based trading system, intended to solve the current problem of the lack of a supervised blockchain and comprises: a project initiation server, for initiating a project; a project participation server, for completing the project; a project trading server, for conducting project trade in the trading system; a funding server, for providing project funds and incentive funds. The project initiation server, project participation server, project trading server and funding server can all understand the operation of the project in the trading system. The funding server grasps the trends of the project funds and the incentive funds at any time and plays a supervision role. The incentive funds can promote the enthusiasm of the project participation server or the project trading server for the project, and the incentive funds are automatically distributed through the trading system, reducing internal default risk and adds value for interdisciplinary and cross-border collaboration.

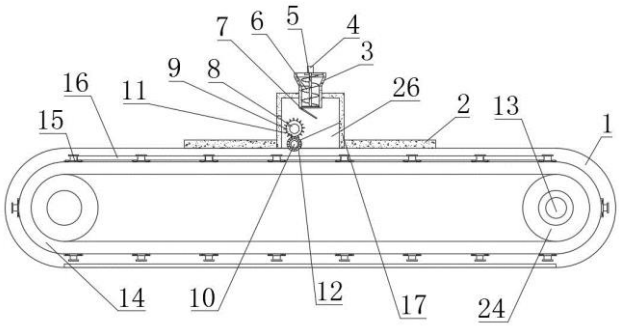


21: 2023/11065. 22: 2023/11/30. 43: 2024/05/30
51: A23L; A47J
71: LEKKER CRACKLE (PTY) LTD
72: PIENAAR, Grant Garness, BROWN, Michael Stephen
54: AN ANIMAL SKIN FOOD PRODUCT SUITABLE FOR COOKING IN A MICROWAVE
00: -
The present invention discloses an animal skin food product suitable for cooking in a microwave and method of preparation thereof, wherein the animal skin food product comprises a foodstuff, preferably pork skin, provided inside or in combination with a sealable container capable of expanding to allow cooking of the animal skin food product in a microwave.



21: 2023/11080. 22: 2023/11/30. 43: 2024/05/31
51: A01C
71: Lu'an Xiangchuan Technology Co., Ltd.
72: Jiyun Shen, Xiuqin Hu
54: A FACTORY SEEDLING AND SEEDING DEVICE
00: -
The invention discloses a factory seedling and seeding device. The invention relates to the

technical field of agricultural production, including a side frame with a mounting table fixed on the outer wall of one side of the side frame. The outer wall of the mounting table is fixed with the second mobile small motor. The top of the mounting table is fixedly installed with a seeding chamber, and the top of the seeding chamber is fixedly installed with an auxiliary feeding end. The first mobile small motor is fixed on the outer wall of the top of the auxiliary feeding end. A large motor is fixed on the outer wall of one side frame. The invention rotates with the second rotating column when the tooth disc rotates. The second rotating column is used to drive the fixing sleeve in the seeding chamber to rotate, which makes the seeds inside the seed placement slot on the outer wall of the fixing sleeve rotate, thus pouring the seeds inside the seed placement slot into the seeding plate, which solves the existing problem of uneven seeding.



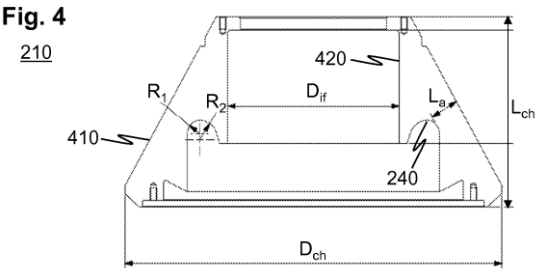
21: 2023/11102. 22: 2023/11/30. 43: 2024/05/30
51: B02C
71: METSO FINLAND OY
72: MERIKOSKI, Mikko, KUJANSUU, Petri
33: FI 31: 20215759 32: 2021-06-28

54: FRETTING WEAR REDUCTION OF INTERFERENCE FITTED CONE CRUSHER HEAD

00: -

A cone crusher head (210), system (200), and crusher (300) including same. A conical mantle (220) radially extends from an interference fit section (120) and has a head diameter D_{ch}. The conical mantle has a wear part support surface and a shaft support surface. The interference fit section has a nominal interference fit diameter D_{if}. The conical mantle has an armpit groove (240) for receiving a slip ring (320). The armpit groove is covered by the conical mantle with an armpit thickness L_a. Fretting wear is reduced by dimensioning the crusher head so that a ratio of the head diameter D_{ch} to the nominal interference fit diameter D_{if} is most 2.5; and a ratio of the head diameter D_{ch} to the armpit thickness L_a is at least 10.5.

Fig. 4

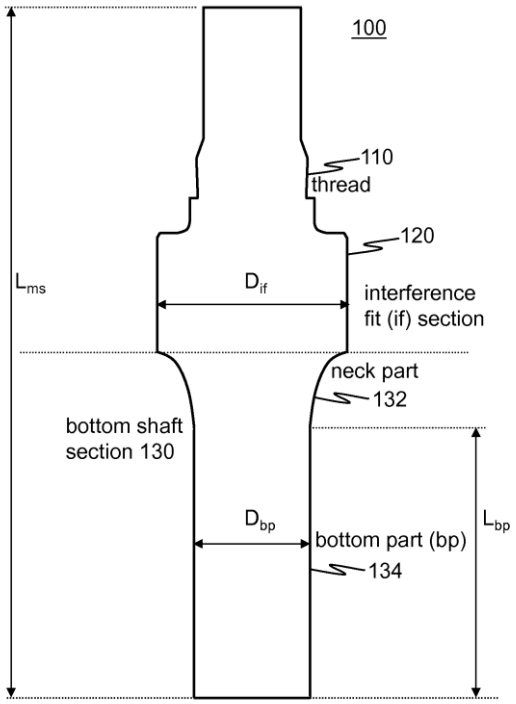


21: 2023/11103. 22: 2023/11/30. 43: 2024/05/31
51: B02C
71: METSO FINLAND OY
72: KUJANSUU, Petri, MERIKOSKI, Mikko
33: FI 31: 20215758 32: 2021-06-28

54: FRETTING WEAR REDUCTION IN INTERFERENCE FIT OF CONE CRUSHER HEAD

00: -

A system, cone crusher (300) and its main shaft (100) having: an interference fit section (120) for supporting a crusher head (210), the interference fit section (120) having a nominal interference fit diameter D_{if}; a bottom shaft section (130) extending between a bottom end of the main shaft (100) and the interference fit section (120), and having a bottom part (134) and a neck part (132). The bottom part (134) has a bottom part length L_{bp} and a bottom part diameter D_{bp} that is constant below the neck part (132) on at least 50 % of the bottom part length L_{bp}. The neck part (132) has a neck part diameter growing towards the interference fit section (120). The main shaft (100) has a main shaft length L_{ms}. $L_{ms}^{1.3}/D_{if}$ is at most $40_{mm}1.3$. $D_{bp}^{1.421}/D_{if}$ is at most 9.0 $mm^{0.421}$.



21: 2023/11105. 22: 2023/11/30. 43: 2024/05/23
51: E02B; E02F
71: ZHANG, Shengsheng
72: LIN, Xiaoguang, ZHENG, Jinggang, ZHANG, Xiaomeng, HUANG, Dongying, ZHANG, Shengsheng
33: CN 31: 202110184977.3 32: 2021-02-10
54: WATER POLLUTION TREATMENT DEVICE
00: -
A water pollution treatment device, comprising a collecting mechanism, a conveying and crushing mechanism and a separating and recycling mechanism for treating pollution in small and medium-sized reservoirs and river channels. The collecting mechanism comprises a first collecting mechanism disposed at an inlet end of the conveying and crushing mechanism; an outlet end of the conveying and crushing mechanism is connected to the separating and recycling mechanism which is used for separating crushed objects and moisture; the first collecting mechanism comprises a fixed housing (400) and a dirt collecting assembly walking device. Surface or underwater debris in a small and medium-sized reservoir and river channel can be sufficiently salvaged and removed, the collected debris occupy less space, moreover, the labor intensity is reduced, and on the premise that a subsequent irrigation operation is not affected, debris such as underwater silt is effectively removed without releasing a stored water source.

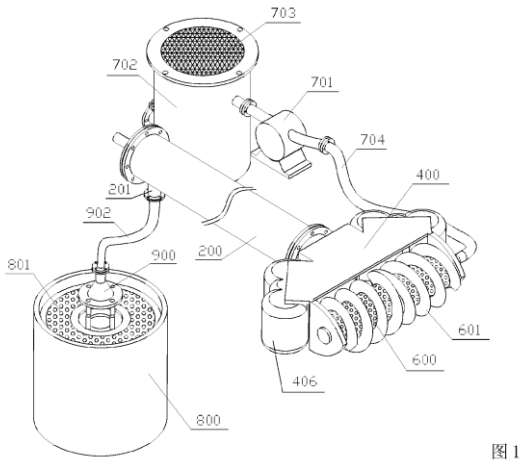
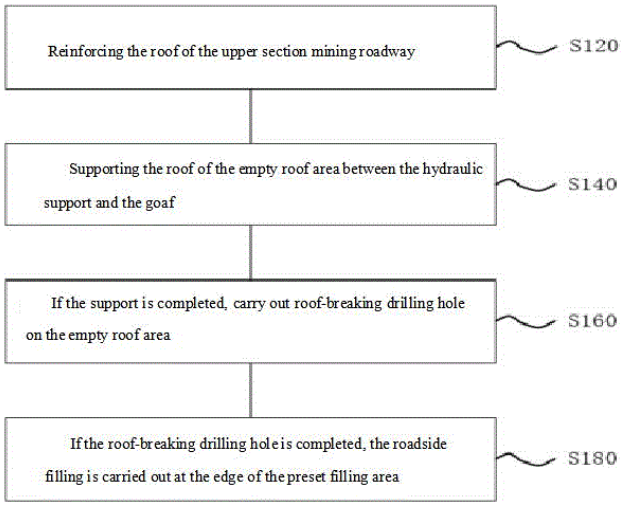
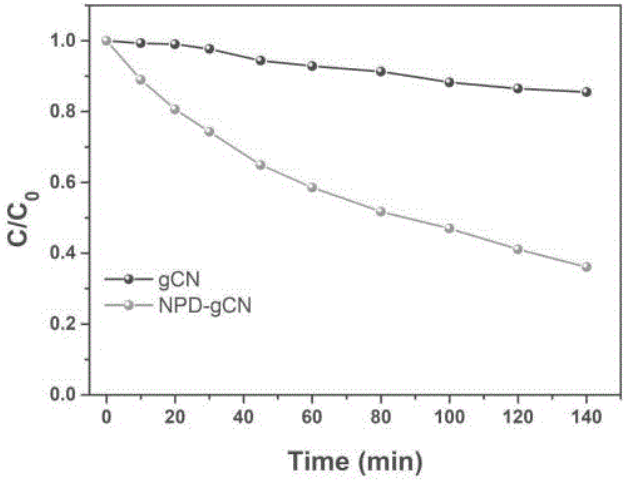


图 1

21: 2023/11118. 22: 2023/12/01. 43: 2024/06/04
51: E21D
71: Huaneng Coal Technology Research Co., Ltd., Yunnan Diandong Yuwang Energy Co., Ltd.
72: HU Chaowen, HU Bing, LI Yongyuan, ZHAO Qingquan, ZHANG Jiangling, MA Xingen, SUN Fulong, JIANG Qi, WANG Bingshan, ZHANG Lei, LI Lei, GAO Jianxun, WANG Mengxiang, FU Jugen
33: CN 31: 2023107445503 32: 2023-06-21
54: RETAINING METHOD FOR GOB-SIDE ENTRY RETAINING
00: -
The invention provides a retaining method for gob-side entry retaining, which comprises the following steps: reinforcing the roof of the upper section mining roadway; supporting the roof of the empty roof area between the hydraulic support and the goaf; if the support is completed, carry out roof-breaking drilling hole in the empty roof area; if the roof-breaking drilling hole is completed, the roadside filling is carried out at the edge of the preset filling area; wherein, the preset filling area is the area between the upper section mining roadway and the empty roof area. This method solves the problem of mine roof support.



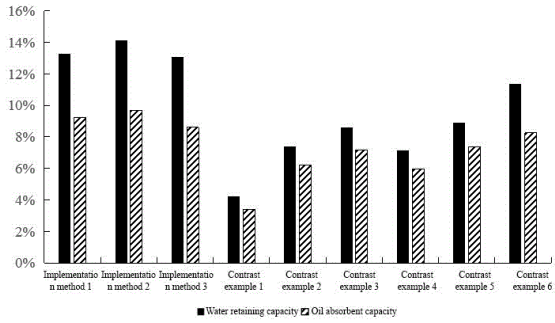
21: 2023/11119. 22: 2023/12/01. 43: 2024/06/04
51: B01J
71: Hainan Normal University, HAINNU
72: WANG Bei, JIANG Meng, HUANG Mingxiu, XIE Jinqian
33: CN 31: 202310476872.4 32: 2023-04-28
54: PREPARATION METHOD AND APPLICATION OF GROUP-MODIFIED GRAPHITIC CARBON NITRIDE PHOTOCATALYST
00: -
The invention discloses a preparation method and application of a group-modified graphitic carbon nitride photocatalyst, which relates to the technical field of photocatalysts. The main points of the technical scheme are: grind urea and 4-nitrophthalimide evenly in a mortar, put into a crucible after grinding, lay a layer of melamine powder on the upper layer, seal it and put it into a muffle furnace, raise the temperature to 500-600 degrees Celsius, keep warm for 1.5-4 h, cool the furnace and reduce it to the room temperature, clean the product with deionised water and ethanol, grind the product to get the target photocatalyst after drying. The photocatalyst can be used for photocatalytic degradation, photocatalytic hydrogen production, carbon dioxide reduction or hydrogen peroxide synthesis. In the preparation method of the catalyst, the conventional thermal polymerization method of GCN is utilized, no additional reaction steps are introduced, and the aromatic electron-withdrawing group grafted GCN is prepared by simple blending of precursors, so that the preparation cost of the photocatalyst is reduced, and the catalytic performance of the photocatalyst is effectively improved.



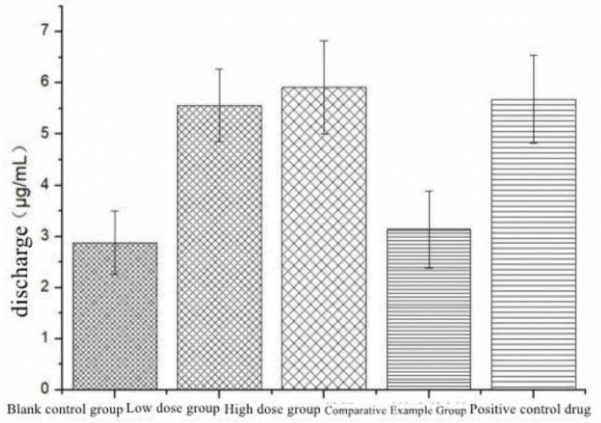
21: 2023/11120. 22: 2023/12/01. 43: 2024/06/04
51: C04B
71: Taiyuan University of Technology, Shanxi-Zheda Institute of Advanced Materials and Chemical Engineering
72: Lan JIA, Xu LI, Yang LIU, Sitong ZHANG, Wenwen YU, Zhiyi ZHANG, Fengbo ZHU, Yanqin WANG, Fuyong LIU
33: CN 31: 2023112502188 32: 2023-09-26
54: A COAL GANGUE/POLYURETHANE GROUTING COMPOSITE MATERIAL AND ITS PREPARATION METHOD
00: -
The present invention provides a coal gangue/polyurethane grouting composite material and its preparation method, which relates to the technical field of grouting material. The present invention uses silane coupling agent to modify the surface of coal gangue powder, and adds the modified coal gangue powder as filler to polyurethane grouting material, so as to reduce the cost of grouting material and ensure that the composite grouting material still has high enough compressive strength. The coal gangue/polyurethane grouting composite material prepared by the invention has short curing time, fast construction period, easy construction, and the compressive strength within 24 h is higher than 40 MPa, which can be applied to structural reinforcement and repair engineering.

21: 2023/11121. 22: 2023/12/01. 43: 2024/06/04
51: C08F
71: Jinan Fruit Research Institute, All China Federation of Supply and Marketing Cooperatives

72: Maoyu Wu, Ming Zhang, Chao Ma, Xiaofeng Meng, Qi Fan, Bohua Zhang, Chongdui Wang, Li Wang, Mengxue Sun, Bin Wang, Liying Ni
33: CN 31: 202311529364.4 32: 2023-11-16
54: A PROCESSING METHOD FOR ENHANCING THE OIL ADSORPTION ABILITY OF ASPARAGUS CRUDE FIBER POWDER
00: -
The invention belongs to the technical field of asparagus crude fiber modification, in particular to a processing method for enhancing the oil adsorption ability of asparagus crude fiber powder. The invention obtains asparagus crude fiber from asparagus old stem waste by alkaline leaching combined with two enzyme preparations. Then, the obtained asparagus fiber was subjected to ultrafine grinding, rehydration, step-by-step low temperature treatment and steam blasting treatment. Finally, the coarse fiber of asparagus was modified by hot air and microwave drying. After the above treatment, the water holding capacity and oil adsorption capacity of asparagus crude fiber powder are significantly improved compared with that without modification. This not only effectively solves the problem of processing and utilization of waste resources with high crude fiber content such as old stalks of asparagus. It also increases the added value of asparagus crude fiber, which expands its application range.



21: 2023/11125. 22: 2023/12/01. 43: 2024/06/04
51: A61K
71: Tianyi Dangu (Linyi) Pharmaceutical Co., Ltd.
72: Xia Meng
54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING RESPIRATORY SYSTEM DISEASES
00: -
The present invention belongs to the field of traditional Chinese medicine and relates to a traditional Chinese medicine composition for treating respiratory system diseases, such as Forsythia suspensa. Clearing heat and moistening the lungs, treating cough and asthma related diseases.



21: 2023/11142. 22: 2023/12/04. 43: 2024/06/04
51: B09C; C02F; C12N; C12R
71: Shanghai Jiao Tong University
72: ZHANG, Xiaojun, YANG, Kaiwen, ZHANG, Lei
33: CN 31: 202211578717.5 32: 2022-12-06
54: STUTZERIMONAS DEGRADANS SH1 OF CHLORINATED HYDROCARBON DEGRADING BACTERIA AND APPLICATION THEREOF
00: -
Disclosed in the present invention are Stutzerimonas degradans SH1 of chlorinated hydrocarbon degrading bacteria and application thereof, which belong to the field of environmental microorganisms. Stutzerimonas degradans SH1 is preserved in China Center for Type Culture Collection with the preservation No. of CCTCC M 20221863 and the preservation date of December 05, 2022. The Stutzerimonas degradans SH1 has a complete biological dechlorination function for perchloroethylene and trichloroethylene under both aerobic and anaerobic conditions. The Stutzerimonas degradans SH1 has low requirements on environmental conditions for growth, can effectively degrade chlorinated hydrocarbon pollutants under conditions of different oxygen contents, and has no accumulation of toxic intermediate products. The Stutzerimonas degradans SH1 or a microbial agent prepared therefrom can be used for bioremediation of chlorinated hydrocarbon contaminated soil or

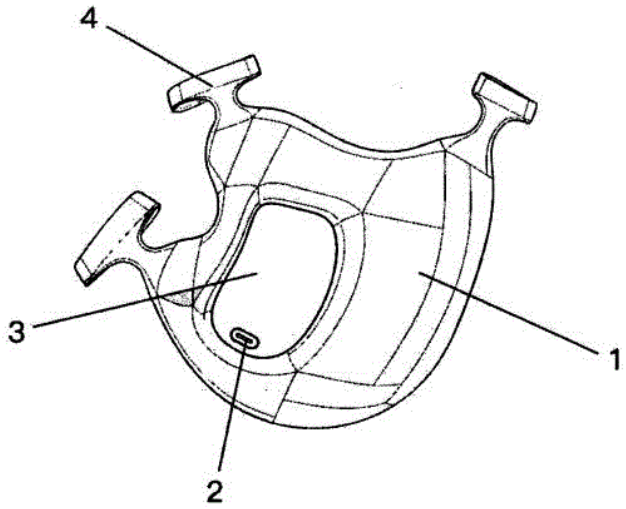
groundwater of an industrial contaminated site, which has important application value.

21: 2023/11143. 22: 2023/12/04. 43: 2024/06/04
51: G09B
71: Donghua University
72: JIN Jindi, LU Wendi, XIE Guanghong, WANG Xiyuan, SHI Hao, WANG Jiarui

54: GLOVE FOR BLIND BASED ON ARTIFICIAL INTELLIGENCE

00: -

The invention discloses a glove for the blind based on artificial intelligence, which comprises a glove body, where the front end of the glove body is provided with at least three elastic wearing parts for fingers to extend in, and the inner side of the glove body is provided with an identification module for detecting objects internally and externally; the identification module is connected with the loudspeaker, the loudspeaker is arranged on the glove body, and the outer side of the glove body is provided with a start button which can control the identification mode to start. The invention is light and small, and is easy to carry when worn on hands, and can be taken off and put into a pocket when not in use. When the blind person sticks the identification device of the palm to the object, the identification system starts to identify the object and conveys the identification result to the blind user through voice. Through the identification glove of the invention, a more direct auxiliary product for the blind with object identification function is given to the blind group, and the needs of the blind in daily life are met.



21: 2023/11144. 22: 2023/12/04. 43: 2024/06/04
51: G06F
71: Changsha University of Science & Technology, Guangdong Metallurgical Building Design & Research Institute Co., Ltd.
72: Shiqing YU, You HUANG, Zhaohui LIU, Wentao SONG, Yu PAN, Ronghai FANG, Xin YANG

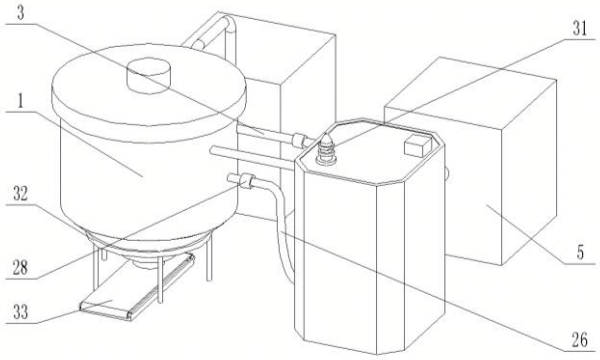
54: A CALCULATION METHOD FOR DETERMINING THE REBOUND MODULUS OF GRANULAR MATERIAL LAYER

00: -

The invention discloses a method for obtaining the structural response modulus of the granular layer, which includes the following steps: 1) selecting the control structural response; 2) Calculate the nonlinear structural response value of the control structure response; 3) Set the initial linear response modulus; 4) Calculate the linear structural response value of the control structural response, and adjust the linear response modulus by the iterative inversion algorithm, so that the linear structural response value converges to the nonlinear structural response value; 5) When the error between the linear structure response value and the nonlinear structure response value is less than the set value, the iteration is terminated, and the linear response modulus at this time is the structural response modulus of the granular layer. The method of the invention can obtain more accurate linear response modulus of the structural response of the granular layer, so as to quickly and accurately obtain the structural response characteristics of the granular layer.

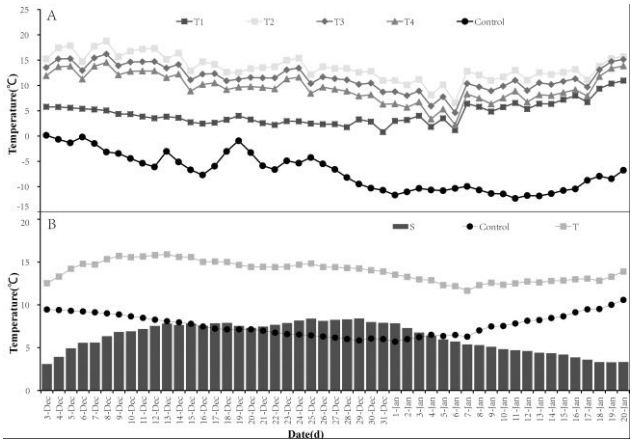
21: 2023/11145. 22: 2023/12/04. 43: 2024/06/04
51: A01G
71: TIANSHUI NORMAL UNIVERSITY
72: MA Lingfa, HE Shuling
54: METHOD FOR CULTIVATING AND GROWING IMITATION WILD GANODERMA SICHUANENSE
00: -
The present invention discloses a method for cultivating and growing imitation wild G. sichuanense, which belongs to the field of edible mushroom cultivation technology. The method for cultivating and growing of imitation wild G. sichuanense includes the following steps: (1) preparation of strain; (2) production of cultivation bag; (3) inoculation and cultivation; (4) imitation wild cultivation in the forest; (5) harvesting. The method for cultivating and growing of the present invention can make the diameter of the cap of the G. sichuanense fruiting body reach 25.12 cm and the thickness of the cap reach 3.11 cm, and can can achieve a polysaccharide content of 1.03g/100g fruiting bodies of G. sichuanense in the G. sichuanense fruiting bodies, which improves the quality of the seeds and the quality of the fruiting bodies.

21: 2023/11148. 22: 2023/12/04. 43: 2024/06/04
51: C10J
71: Henan University of Urban Construction
72: ZHANG Zhiyuan, ZHANG Lilin, ZHOU Hengtao, KONG Youfang, DONG Shanshan, CHEN Honglin, WANG Yiwen, WANG Xutao, JU Rui, LI Hengbin, LIU Lele, CHEN Hongli, PENG Lansi
54: EQUIPMENT FOR PYROLYSIS GASIFICATION AND GAS PURIFICATION OF OILY SLUDGE
00: -
The invention provides equipment for pyrolysis gasification and gas purification of oily sludge, which comprises a pyrolysis treatment tank, wherein a drying cavity and a pyrolysis cavity are respectively arranged in the pyrolysis treatment tank; a drying piece is arranged in the drying cavity, and the drying piece is used for drying oily sludge, and has a guide end, which communicates the drying cavity with the pyrolysis cavity; the air inlet end of the pyrolysis cavity is communicated with a combustion box; and the bottom end of the pyrolysis cavity is provided with a discharge port; a purification tank, which is communicated with the air outlet end of the pyrolysis cavity, is internally provided with a circulating heat pipe, one end of which extends into the drying cavity, and a filter piece corresponding to the circulating heat pipe is arranged in the purification tank, and the filter piece reciprocates relative to the purification tank, and is used for filtering pyrolysis flue gas; and a vulcanizing heating tank, the vulcanizing heating tank is communicated with the air outlet end of the purification tank, and the air outlet end of the vulcanizing heating tank is communicated with the combustion box. The invention improves the pyrolysis efficiency of oily sludge and the subsequent flue gas treatment efficiency, enhances the heat recovery rate of treatment equipment and reduces energy waste.



21: 2023/11149. 22: 2023/12/04. 43: 2024/06/04
51: A01G
71: Turpan Research Institute of Agricultural Sciences, Xinjiang Academy of Agricultural Sciences.
72: Wu Jiuyun, Zhong Haixia, Abudureheman Riziwangguli, Zha Qian, Zhang Chuan, BAI Shijian, Mao Liang, Li Haifeng, Abudula Ainiwaer, Han Chen, Wang Xiping, Liu Ping, Liu Wei
54: CULTIVATION METHOD FOR PROMOTING GRAPES MATURE EARLY BY CONTROLLING DORMANCY IN GREENHOUSE
00: -
The present invention provides a cultivation method for promoting grapes mature early by controlling dormancy in a greenhouse. By regulating and controlling environmental factors such as temperature and light in the greenhouse, grapes are induced to enter a dormancy period early; when 80%-100% of a physiological dormancy period of the grapes is completed, a "three sheds and one membrane" measure is adopted to regulate and control an environmental temperature in a

greenhouse shed, and supplemented with a calcium cyanamide or monocyandiamide dormancy-breaking agent to break dormancy to promote early development of the grapes. The method of the present invention controls the dormancy time of the grapes by utilizing a facility environmental regulation technology combined with the use of a dormancy-breaking agent to force grapes to break the dormancy in advance, promoting the grapes to germinate 15-30 days earlier. It is beneficial to the early development of the grapes cultivated in the greenhouse, significantly improving economic benefits. The method is applicable to the grapes cultivation in the greenhouse shed in arid and semi-arid producing areas of China.

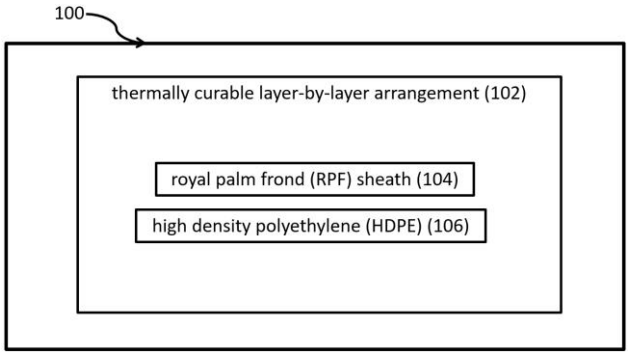


21: 2023/11150. 22: 2023/12/04. 43: 2024/06/04
51: B32B
71: Dr. M.G.H. Zaidi, Dr. Sameena Mehtab, Rahul Patwal, Vaibhav Arya, Dr. Minakshi Pandey, Mohammad Aziz, Diksha Palariya
72: Dr. M.G.H. Zaidi, Dr. Sameena Mehtab, Rahul Patwal, Vaibhav Arya, Dr. Minakshi Pandey, Mohammad Aziz, Diksha Palariya

54: A PALM WASTE BASED SANDWICH COMPOSITE STRUCTURE (SCS) AND A METHOD FOR ITS FABRICATION

00: -

The present disclosure relates to a palm waste based sandwich composite structure (SCS) and a method for its fabrication. This invention presents a novel method for creating Structural Composite Structures (SCS) using Royal Palm Frond (RPF) waste and high-density polyethylene (HDPE) sheets as a thermoplastic binder. The process involves meticulous steps, from material preparation to lamination, resulting in polymer bio-composites of varying RPF wafer alignments. HDPE waste is of high-density polymer grade. This innovative approach simplifies the fabrication of versatile structural materials for furniture and building construction. It streamlines the complex procedures of previous methods, offering a cost-effective solution with a single binder. The resulting products, including plyboards, furniture components, tiles, bricks, and partition walls, hold promise for industrialists and entrepreneurs in these sectors. This novel technology transforms agricultural waste into valuable construction materials, contributing to sustainability and resource efficiency.

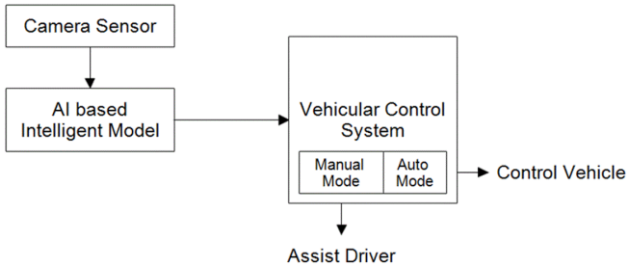


21: 2023/11151. 22: 2023/12/04. 43: 2024/06/04
51: G06N
71: UTANE, Akshay Suresh
72: UTANE, Akshay Suresh, MOHOD, Sharad Wasudeorao

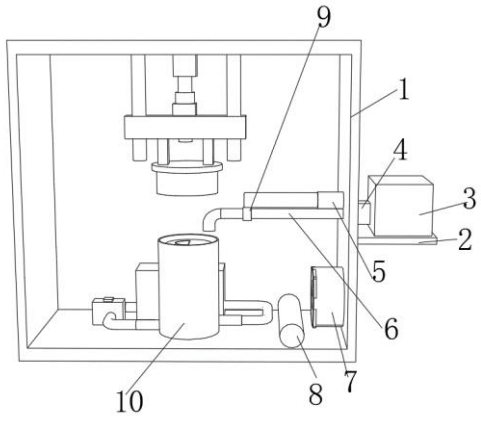
54: A COMPUTER VISION AND MACHINE LEARNING BASED AUTOMATIC VEHICLE TRAFFIC CONTROL SYSTEM

00: -

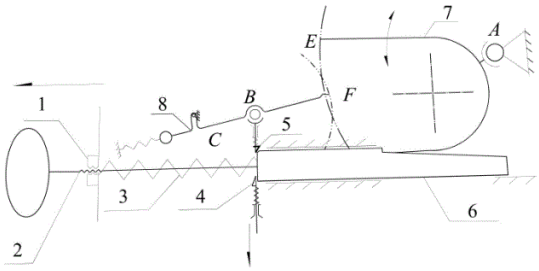
The present invention related to a computer vision and machine learning based automatic vehicle traffic control system. The invention aims to develop such system. An intelligent model is developed using machine learning and deep learning concept, which takes the image from camera sensor, analyses the context of environment and predict the which traffic signs and traffic light situation is occurred. And accordingly, proposed vehicular control system assist the drivers when it is manual mode and in auto mode, accordingly vehicle speed is controlled. The proposed framework consists of camera sensor, vehicular control system module, AI based intelligent module.



21: 2023/11152. 22: 2023/12/04. 43: 2024/06/04
51: B29C
71: Ningbo Polytechnic
72: Li Jinyi, Ong Yung Chieh
33: CN 31: 202311554650.6 32: 2023-11-21
54: INJECTION MOULD WITH CONFORMAL COOLING CHANNELS MANUFACTURED BY METAL ADDITIVE MANUFACTURING
00: -
The present invention discloses an injection mould with conformal cooling channels manufactured by metal additive manufacturing, and the metal injection mould includes a processing box, specifically, a supporting plate is fixedly connected to an outer wall of a right side of the processing box, a material box is fixedly connected to an outer wall of an upper end of the supporting plate, a discharge end of the material box is penetrated by and fixedly connected to a telescopic pipe, and the telescopic pipe penetrates through the processing box. According to the present invention, a water pump pumps water in a water tank to make water in a circulating pipeline circulated, so that water in a second connecting pipe and a second elbow pipe may be cooled and a lower mould may be cooled at the same time, with a good cooling effect.

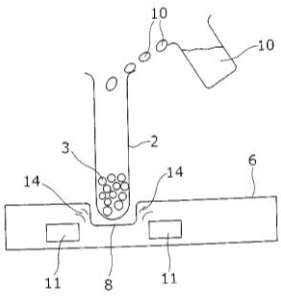


21: 2023/11160. 22: 2023/12/04. 43: 2024/06/04
51: B60D
71: NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: JI, Hongchao, WEN, Yanke, YU, Jiang, CUI, Guofa, HUANG, Xiaomin, WANG, Xinge, ZHAO, Zeling, LI, Wei
33: CN 31: 202211075383. X 32: 2022-09-02
54: LOCKING DEVICE FOR SEMI TRAILER FIFTH WHEEL
00: -
The present disclosure provides a convenient, safe and lightweight fifth wheel locking device. The locking device includes a pull rod, a limiting block, a safe lock, a lever, a thrust spring, a hook lock, an inclined iron and an inclined iron pin. The pull rod is connected with the thrust spring and the inclined iron to control the movement of the inclined iron, the hook lock is fixed at a position of a pivot A and can rotate along the pivot A, a pivot E of the hook lock can have a collision with a pivot F of the lever during rotation, the limiting block is fixed on a side of a fifth wheel housing to fix the position of the pull rod, to prevent the pull rod from sliding, the lever is fixed at pivots B and C on an inner surface of the fifth wheel housing.

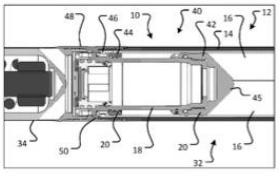


21: 2023/11164. 22: 2023/12/04. 43: 2024/06/04
51: A61K; B01F; C12M
71: ST ANDREWS PHARMACEUTICAL TECHNOLOGY LIMITED
72: HENRY, WIlliam John
33: GB 31: 2108437.1 32: 2021-06-14
33: GB 31: 2202960.7 32: 2022-03-03
54: APPARATUS FOR IMPROVING HYDRATION AND / OR REDUCING PARTICLE SIZE OF A PRODUCT AND A METHOD OF USE THEREOF
00: -
A method and apparatus is provided for improving hydration and/or reducing the particle size of a product or agent. The method includes the step of applying a pulsed electromagnetic field to the product or agent for a period of time sufficient to allow an increase in the hydration of the product or

agent and/ or a reduction of the particle size of the product or agent.



21: 2023/11165. 22: 2023/12/04. 43: 2024/06/04
51: E21B
71: REFLEX INSTRUMENTS ASIA PACIFIC PTY LTD
72: REILLY, James Barry, COPLIN, Nicholas, MOKARAMIAN, Amir, JAVORKA, Marian
33: AU 31: 2021209301 32: 2021-07-29
54: DOWNHOLE TOOL ASSEMBLIES
00: -
Downhole tool assembly (10) for mounting to a core barrel assembly (12) including a core tube (14) and a pair of split tubes (16). The downhole tool assembly (10) includes a downhole tool (18) and at least one sleeve (20) dimensioned to slidingly engage the split tubes (16) to inhibit radial movement of the split tubes (16) and receive and retain the downhole tool (18) coaxially with the core tube (14). Core ejection pistons (72), and methods for extracting a core from bedrock are also disclosed. A housing assembly (120) for a downhole tool, downhole assemblies (180, 200), and methods of assembling such assemblies are also disclosed.



21: 2023/11181. 22: 2023/12/05. 43: 2024/06/06
51: B60S
71: Gcwabaza Family Trust
72: GCWABAZA, Jibha Richman
33: ZA 31: 2022/13391 32: 2022-12-12
54: CAR WASH
00: -
The present invention relates to a mobile car wash station, which includes a vehicle retrofitted with traditional car washing equipment and a coverage arrangement extendable from at least one side of the vehicle, which in a deployed formation defines multiple carports, in use, for washing operations and queued vehicles. The coverage arrangement being retractable, erectable or foldable, thereby allowing for the coverage arrangement to be cantilevered from the vehicle, when the coverage arrangement is in a deployed formation. Furthermore, the mobile car wash station includes a removable catchment area to overlay a surface area underneath the multiple carports, thereby allowing for liquids used during washing operations to be collected.

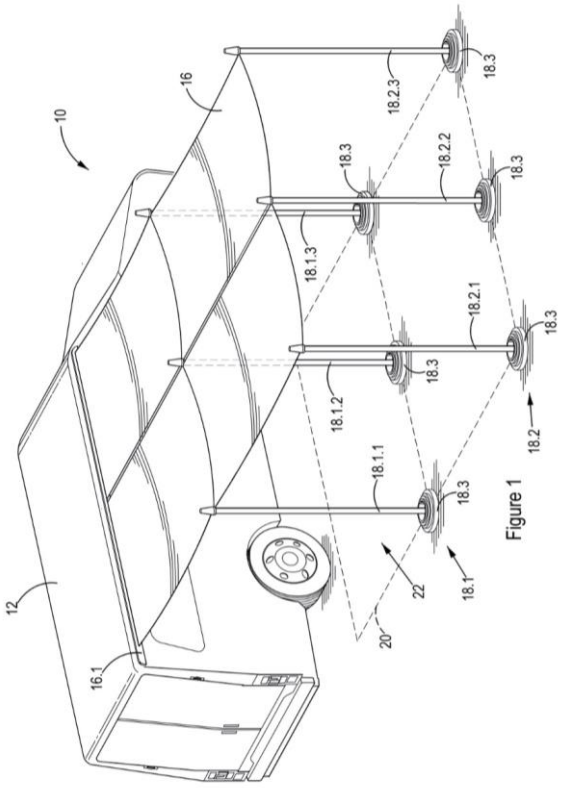
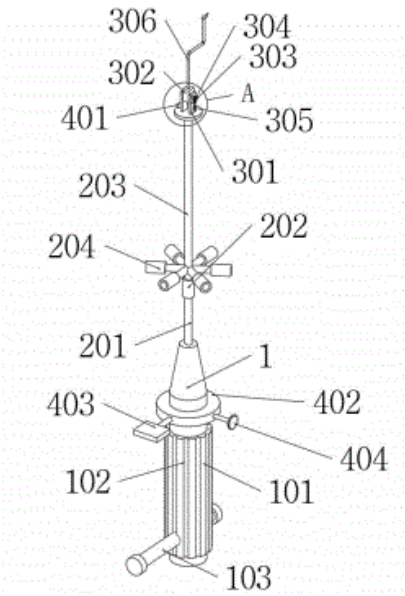


Figure 1

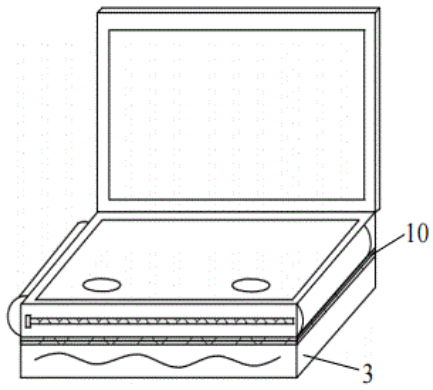
21: 2023/11182. 22: 2023/12/05. 43: 2024/06/06
51: A61C
71: Peking University School of Stomatology
72: HE, Ying, ZHANG, Xuehui, DENG, Xuliang, XU, Mingming
33: CN 31: 2023114736359 32: 2023-11-07
54: MINIMALLY INVASIVE DENTAL ELEVATOR FOR EXTRACTING LOWER IMPACTED WISDOM TEETH
00: -
Provided is a minimally invasive dental elevator for extracting lower impacted wisdom teeth, relating to

the technical field of dental elevators, including: a handle. A connecting portion is mounted on the handle. An adjustment portion is provided. By the setting of the adjustment portion, when it is necessary to adjust an inclination angle of a prying rod, a worm can be directly rotated. When the worm is rotated, the rotation of a worm gear can be realized. At this moment, a rotating shaft and the prying rod complete the inclination adjustment, and the subsequent prying will be more flexible. Through the above-mentioned improvement, the angle adjustment of the prying rod can be realized, which is more convenient when prying the teeth. After the adjustment, a separate locking is not required, and the operation is convenient.



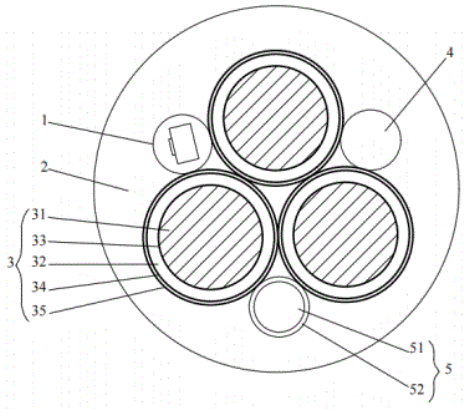
21: 2023/11183. 22: 2023/12/05. 43: 2024/06/06
51: A01H
71: Zhejiang Institute of Subtropical Crops
72: FU, Shuangbin, YANG, Yanping, ZHOU, Zhuang, YING, Zhen, XU, Wan, QIU, Zhimin, HE, Jiaqi
33: CN 31: 2023114025249 32: 2023-10-26
54: CALLUS INDUCTION AND PROLIFERATION METHOD FOR ARDISIA MAMILLATA HANCE
00: -
The present invention relates to the technical field of plant culture, and specifically designs a callus induction and proliferation method for Ardisia mamillata Hance. The method includes: inoculating materials of mature seeds of Ardisia mamillata Hance in a specific induction medium and proliferation medium, where an average induction rate can reach 80 percent within six months and an average proliferation rate can reach 280 percent within one month. According to the present invention, a novel callus induction and proliferation method for Ardisia mamillata Hance is provided. The method has a low pollution rate and high efficiency, and lays a foundation for related research on preservation, transformation, physiology and biochemistry, etc. of Ardisia mamillata Hance and obtaining of a large number of healthy tissue culture seedlings through subsequent culture and differentiation.

21: 2023/11184. 22: 2023/12/05. 43: 2024/06/06
51: H05K
71: Institute of Water Resources for Pastoral Area, MWR
72: ZHENG, Ying, DONG, Lei, ZHANG, Tiegang, TANG, Pengcheng, YANG, Zhenqi, YAO, Zhenyu, LIU, Xinyu, ZHAO, Tianqi
54: PROTECTIVE CASING FOR FIELD DATA ACQUISITION DEVICE
00: -
The present invention discloses a protective casing for a field data acquisition device, including a display screen cover, a main unit cover, a heating seat and a buffer seat, wherein a transparent first flexible window film is arranged on the side of the display screen cover corresponding to a screen of a display screen; a second flexible window film is arranged on the side of the main unit cover corresponding to a keyboard; a slot for taking out or putting in the field data acquisition device is arranged at the end of the main unit cover away from the display screen; and the heating seat or the buffer seat is detachably and fixedly connected to the side of the main unit cover away from the keyboard. The protective casing for a field data acquisition device can protect the field data acquisition device effectively.



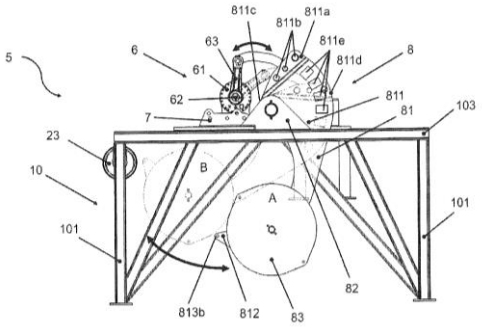
21: 2023/11185. 22: 2023/12/05. 43: 2024/06/06
51: C04B
71: Jilin Jianzhu University
72: JIANG Hao, WANG Jiangtao, ZHANG Yunlong, WANG Jing, QIAO LI, CUI Jinyu
33: CN 31: 202311504468X 32: 2023-11-13
54: MACHINE-MADE SAND REACTIVE POWDER CONCRETE
00: -
The invention discloses a preparation method of machine-made sand reactive powder concrete, and belongs to the technical field of novel RPC materials. According to the invention, short steel fibers accounting for 0.5-2 percent of the concrete volume and long steel fibers accounting for 0-1.5 percent are mixed into concrete, and cement, fly ash, silica fume, mineral powder, machine-made sand, water and water reducer with the mass ratio of 0.62: 0.20: 0.13: 0.05: 0.7: 0.18: 0.015 are used as basic materials, so that the mechanical properties of the prepared machine-made sand reactive powder concrete are enhanced.

21: 2023/11187. 22: 2023/12/05. 43: 2024/06/06
51: F21V; H01B; H05B; F21Y
71: Shanghai Lanhao Jiangsu Electric Co., Ltd.
72: ZONG, Lei
33: CN 31: 2023108430740 32: 2023-07-10
54: CABLE CONTAINING LED LIGHT STRIP DRIVEN BY INDUCED CURRENT
00: -
A cable containing an LED (Light Emitting Diode) light strip driven by an induced current is provided. The cable includes an LED light strip, a cable core and an outer protection layer covering the cable core and the LED light strip. The cable core includes at least one power wire core. The LED light strip includes a coil block and an LED chip which are connected in series to form a closed loop. The coil block generates an induced potential under the action of an alternating magnetic field generated after the power wire core is powered on. The LED chip is lightened by the induced potential. The outer protection layer is made of a light-transmitting material.



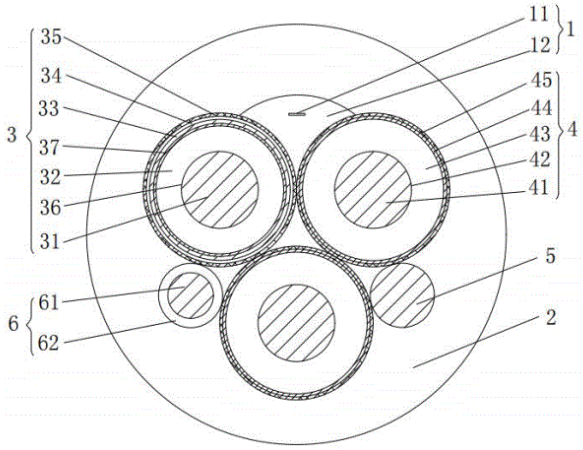
21: 2023/11188. 22: 2023/12/05. 43: 2024/06/06
51: A01B; E02F; E21D; G01M
71: MINETEC S.A.
72: VERA TORRES, Bernardo Luis, ZAMORANO JONES, Claudio Devon
33: CL 31: 202203481 32: 2022-12-07
54: TEST BENCH FOR SNUBBER
00: -
A test bench to evaluate the operation of a brake or shock absorber for bucket doors of excavators or electric shovels that allows simulating real operating conditions of the bucket doors, which includes a brake support that allows installing and fixing the brake to be evaluated , said brake comprising, a body with an axis that is connected to the end of an arm in a pivotal manner and its other end is used for connection with the bucket door; a pendulum to simulate the loads received by the brake due to the opening and/or closing movement of the bucket door, comprising a pendulum arm comprising an upper end with a lateral edge comprising at least one opening to be fixedly connected to the free end of the brake arm, an inner side pivotally connected to a pendulum support, arranged in front of the brake support, allowing rotational movement of the pendulum, and an outer side comprising a plurality of openings defining a predefined inclination ; and a lower end comprising a known mass; a locking device on one side of the upper end of the pendulum

arm, which allows an inclination position of the pendulum arm to be fixed; a support structure, on which the rest of the elements of said test bench are installed or arranged; and a plurality of sensors that allow measurements of at least the pressure in the brake chambers, the temperature of the fluid in the brake chambers, and the angular velocity and acceleration of the pendulum and brake arm.



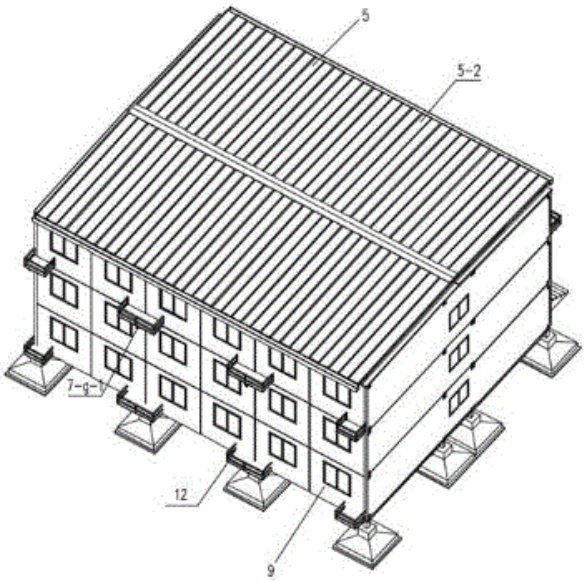
21: 2023/11189. 22: 2023/12/05. 43: 2024/06/06
51: A01N
71: Inner Mongolia Academy of Agricultural & Animal Husbandry Sciences
72: Zheng Wenzhe, Zhang Hui, Zhang Bizhou, Sun Mengyuan, Wang Liang, Zhang Huizhong, Fu Zengjuan, Zhao Shangmin, E Yuanyuan, Zhang Ziqiang, Li Xiaodong, Han Ping'an, Suo Ningning
33: CN 31: 202311483415.4 32: 2023-11-09
54: SEED COATING AGENT COMPOSITION
00: -
The present invention relates to the technical field of seed coating, and specifically relates to a seed coating agent composition. A seed coating agent includes the following components by mass fractions: 75%-85% of polylactic acid-polyglutamic acid diblock copolymer, 3%-5% of ammonium orthophosphate, 3%-5% of potassium sulphate, 5%-8% of urea, 2%-3% of plant growth regulator, 3%-5% of sodium polyacrylate, and 1% of benzopyrazole ester. The polylactic acid-polyglutamic acid diblock copolymer refers to a copolymer obtained by block reaction of polylactic acid (PLA) and polyglutamic acid (PGA). The seed coating agent can improve the water-absorbing quality and the permeability of seeds, promoting the absorption of water and oxygen by seeds. Meanwhile, the nutrients in the seed coating agent can provide necessary nutrients for the seeds, boosting the rapid growth of seeds. As the seeds are planted, the seed coating agent can provide a protective film to reduce the invasion of pathogenic bacteria, protecting the seeds from being affected by the external environment.

21: 2023/11193. 22: 2023/12/05. 43: 2024/06/06
51: F21V; H01B; H05B; F21Y
71: Shanghai Lanhao Jiangsu Electric Co., Ltd.
72: LIU, Chunyan
33: CN 31: 2023108424881 32: 2023-07-10
54: VOLTAGE DRIVEN PASSIVE LED LUMINOUS CABLE
00: -
A voltage driven passive LED (Light Emitting Diode) luminous cable is provided, and relates to the technical field of cables. The voltage driven passive LED luminous cable includes an LED light strip, a cable core and an outer protective layer covering the cable core and the LED light strip. The cable core includes a special power wire core. The special power wire core includes a first power wire core conductor, and a first insulating layer, a lead wire conductor, a lead wire insulating layer and a shielding layer which cover the first power wire core conductor in sequence. Two poles of the LED light strip are respectively connected with the lead wire conductor and the shielding layer. The LED light strip is driven by a voltage division between the lead wire conductor and the shielding layer. The outer protective layer is made of a light-transmitting material.

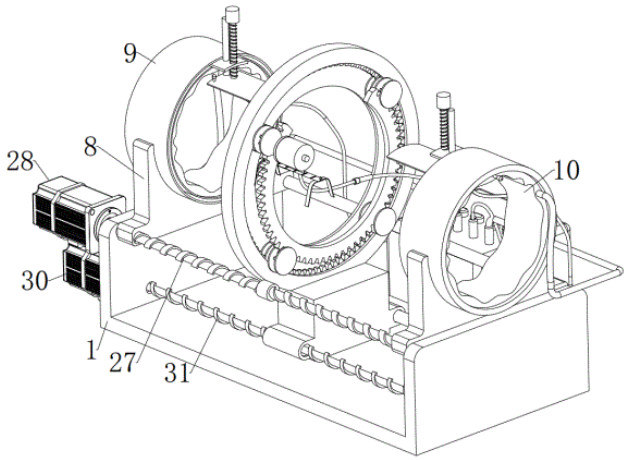


21: 2023/11219. 22: 2023/12/06. 43: 2024/06/06
51: E04B
71: China Architecture Design & Research Group Co., Ltd

72: Tian ZHAO, Yu BAI, Boyuan DONG, Minhua PAN, Tianyu WU, Zhiwen TANG, Xiangdong KANG, Chuanshan REN, Lingyun WANG
33: CN 31: 202310468216.X 32: 2023-04-27
54: DEMOUNTABLE BUILDING AND METHOD FOR CONSTRUCTING SAME
00: -
This application relates to a demountable building and a method for constructing the same, which belongs to the technical field of assembled buildings, and solves the problems of low quality and poor performance in temporary buildings such as tents and prefabricated buildings in case of emergency, and the problems of low construction efficiency, incapability of repeated disassembly and assembly, and high construction cost in existing assembled concrete buildings and assembled steel structure buildings. According to the demountable building and the method for constructing the same, standardized members produced in factories, including truss walls, steel beams, floor frames and a roof frame, are main structural load-bearing members. The truss walls and the steel beams are simply mechanically connected by serial connectors to form a structural load-bearing system. In addition, the demountable building further includes exterior wall boards, internal partition boards and other building components. This application realizes repeated disassembly and assembly, and has the advantages of high disassembly and assembly efficiency and significantly lower cost.

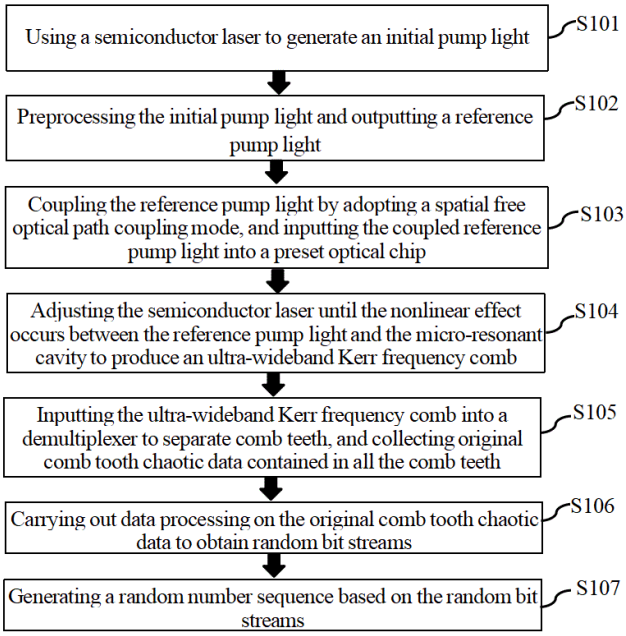


21: 2023/11220. 22: 2023/12/06. 43: 2024/06/06
51: A61B
71: Quzhou People's Hospital
72: Xiaoyang Li, Mengmeng Zhou, Guobing Cheng, Wei Lu, Youyao Xu
54: VASCULAR SURGERY HEMOSTASIS DEVICE
00: -
The present application discloses a vascular surgical hemostasis device comprises a support base, adaptive anti-extrusion support mechanisms, dressing pressing mechanisms and a gauze binding mechanism; a two-way screw sliding assembly is arranged on the support base, the adaptive anti-extrusion support mechanisms are symmetrically sliding on the two-way screw sliding assembly; a screw moving assembly is arranged on the support base, the gauze binding mechanism is arranged on the screw moving assembly; the gauze binding mechanism is arranged between the adaptive anti-extrusion support mechanisms; the dressing pressing mechanisms are arranged on the sidewall of the adaptive anti-extrusion support mechanisms; an inflator is arranged on sidewall of the support base, the inflator supplies air to the adaptive anti-extrusion support mechanisms and the dressing pressing mechanisms, respectively. The invention belongs to the technical field of hemostatic equipment, specifically, it provides a vascular surgical hemostatic equipment, which solves the problem that the existing hemostatic equipment cannot fix and press the dressing during bandaging. It can also ensure that the gauze is pressurized while fixing the hemostatic dressing.



21: 2023/11221. 22: 2023/12/06. 43: 2024/06/06

51: G06F
71: Southwest University
72: TANG Xi, WU Jiagui, HU Yuqi, WANG Yongbo, WU Zhengmao, XIA Guangqiong
33: CN 31: 2023105389570 32: 2023-05-12
54: METHOD AND SYSTEM FOR GENERATING HIGH-SPEED RANDOM NUMBERS BASED ON CHAOTIC OPTICAL FREQUENCY COMB
00: -
The invention provides a method and a system for generating high-speed random numbers based on a chaotic optical frequency comb. The method includes the following steps:using a semiconductor laser to generate an initial pump light; preprocessing the initial pump light and outputting a reference pump light; coupling the reference pump light by adopting a spatial free optical path coupling mode, and inputting the coupled reference pump light into a preset optical chip, where the optical chip contains a plurality of micro-resonant cavities; adjusting the semiconductor laser until the nonlinear effect occurs between the reference pump light and the micro-resonant cavity to produce an ultra-wideband Kerr frequency comb; inputting the ultra-wideband Kerr frequency comb into a demultiplexer to separate comb teeth, and collecting original comb tooth chaotic data contained in all the comb teeth; carrying out data processing on the original comb tooth chaotic data to obtain random bit streams; and generating a random number sequence based on the random bit streams. The invention has the effects of simultaneously outputting hundreds of channels of entropy sources and simultaneously generating a large number of random numbers.



21: 2023/11222. 22: 2023/12/06. 43: 2024/06/06
51: E01F
71: BOUWER, Gert Johannes
72: BOUWER, Gert Johannes
33: ZA 31: 2022/11903 32: 2022-11-02
54: GATE AUTOMATION
00: -
The invention relates to a tamper resistant gate drive mechanism, which includes a drive arrangement, comprising an electric motor drivingly connectable to a gate, in use, an electronic drive control system, controllably connected to the electric motor selectively to drive the electric motor in any one of two directions, and a housing, in the form of a hollow, elongated body which is profiled to resemble a structural column which houses the drive arrangement and the electronic drive control system.

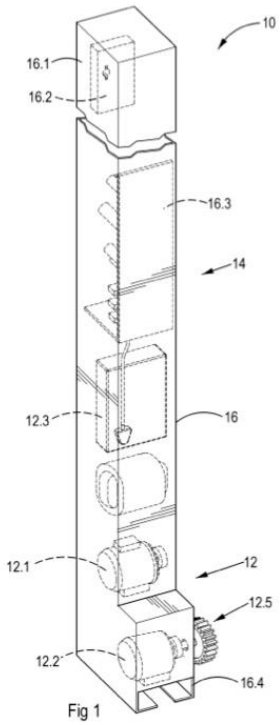


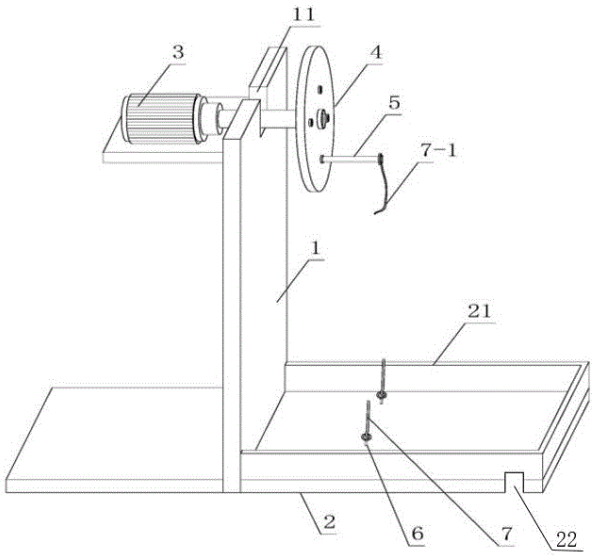
Fig 1

21: 2023/11223. 22: 2023/12/06. 43: 2024/06/06
51: G01N
71: Institute of Horticultural Crops, Xinjiang Academy of Agricultural Sciences
72: Fuchun Zhang, Haixia Zhong, Xiaoming Zhou, Xinyu Wu, Wen Zhang, Shouan Han, Min Wang, Chuan Zhang, VIVEK YADAV

54: A GRAPE FALLING DETECTION DEVICE AND DETECTION METHOD THEREOF

00: -

The invention discloses a grape shattering detection device and a detection method, the detection device includes a vertical board, the bottom end of the vertical plate is fixedly installed with a base, the top of the vertical plate is equipped with a rotating motor, the output end of the rotating motor is equipped with a rotating disk, the surface of the rotating disk is fixedly installed with a rotating shaft in the same direction as the output of the rotating motor, and the end of the rotating shaft.

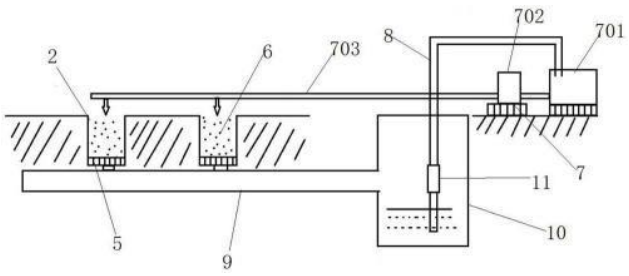


21: 2023/11224. 22: 2023/12/06. 43: 2024/06/06
51: A01G
71: SHANDONG BAIYU AGRICULTURAL SCIENCE AND TECHNOLOGY DEVELOPMENT CO., LTD
72: LI, Zhihong, YUAN, Qiang, YUAN, Shengbo

54: WATER-SAVING AND FERTILIZER-SAVING SAND CULTURE CULTIVATION SYSTEM FOR GOBI DESERT AND SALINE-ALKALI LAND

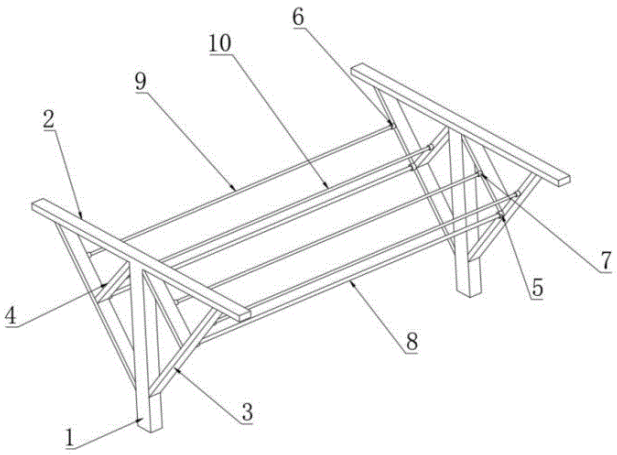
00: -

The present invention discloses a water-saving and fertilizer-saving sand culture cultivation system for gobi desert and saline-alkali land, which comprises a cultivation groove, wherein the bottom and sides of the cultivation groove are covered with waterproof films; a non-woven fabric is covered above the waterproof films; a diversion plate is laid at the bottom of the cultivation groove and located between the waterproof films and non-woven fabric; and matrix sand is filled in the cultivation groove and located above the non-woven fabric. A fertilization and drip irrigation device comprises a reservoir, a fertilizer applicator and a drip irrigation belt. A return pipe is horizontally laid on the bottom end of the cultivation groove and communicated with the cultivation groove. An extraction pump is located in the collecting groove, and is connected with one end of a guiding pipe, and the other end of the guiding pipe with the reservoir.



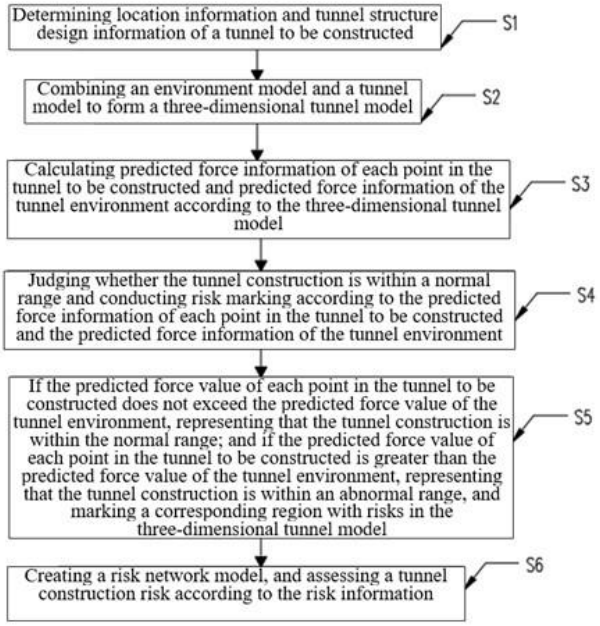
21: 2023/11225. 22: 2023/12/06. 43: 2024/06/06
51: A61K
71: Hainan Tropical Ocean University
72: YU Shuchi
54: ANTIBACTERIAL TOOTHPASTE CONTAINING ILEX LATIFOLIA THUNB EXTRACT
00: -
The invention belongs to the technical field of medical, dental or cosmetic preparations, and in particular relates to an antibacterial toothpaste containing Ilex latifolia Thunb extract. The toothpaste consists of the following components in parts by weight: 1-6 parts of Ilex latifolia Thunb extract, 5-10 parts of pearl powder, 20-30 parts of humectant, 20-30 parts of friction agent, 0.5-1.5 parts of foaming agent, 0.5-1.2 parts of adhesive, 0.3 parts of stabilizer, 0.3-0.6 part of sweetener, 0.5-0.8 part of edible essence, 0.1-1.5 parts of bacteriostat, 0.3-0.8 part of surfactant and the balance of deionized water. The invention utilizes the natural antibacterial activity and antioxidant properties of Ilex latifolia Thunb, and with the use of pearl powder, the toothpaste has better functions of inhibiting bacterial growth and removing peculiar smell. At the same time, zero addition of preservatives is achieved, and the Ilex latifolia Thunb extract can be added to toothpaste matrix to replace preservatives.

21: 2023/11226. 22: 2023/12/06. 43: 2024/06/06
51: A01G
71: Institute of Horticultural Crops, Xinjiang Academy of Agricultural Sciences
72: Fuchun Zhang, Haixia Zhong, Xinyu Wu, Xiaoming Zhou, Wen Zhang, Shouan Han, Min Wang, Songlin Zhang
54: A NORTHERN GRAPE 'DOUBLE PLANT DOUBLE V' CULTIVATION FRAME
00: -
The invention discloses a northern grape 'double plant double V' cultivation frame, which includes upright columns, cross beams, outer brackets, inner brackets, steel bar installation nodes, outer branch support wire installation nodes, inner branch support wire installation nodes, and main vine support steel bars. , outer branch support wires and inner branch support wires; this invention reduces the difficulty of management and the labor intensity of loading and unloading grapes by reducing the binding height of horizontal main vines, the binding height of new shoots and the position of fruit growth; the new grape shoots of the invention The binding direction has a certain angle in the horizontal direction, making it difficult to twist and ensure stable yields; the cultivation frame appropriately reduces the height of the fruiting part, and the microclimate conditions around the fruit are more conducive to grape flowering, fruit setting and fruit development, and the fruit setting rate is improved, the fruit enlargement effect is good, and the fruit weight invreases significantly.



21: 2023/11228. 22: 2023/12/06. 43: 2024/06/06
51: E21D; G06Q
71: EAST CHINA UNIVERSITY OF TECHNOLOGY, JIANGXI GEO-ENGINEERING GROUP CORPORATION LIMITED
72: HUANG, Chuansheng, YI, Zhidong, HE, Ru, LIU, Huo, LI, Guang, HUANG, Lei, JIANG, Lie, XU, Hao, HU, Deyu, YANG, Xin
54: ASSESSMENT METHOD FOR TUNNEL CONSTRUCTION SAFETY RISKS
00: -
The present invention belongs to the technical field of assessment of tunnel construction risks, and particularly relates to an assessment method for tunnel construction safety risks, comprising: S1: determining location information and tunnel structure design information of a tunnel to be constructed; S2:

determining surface-related data information according to the location information of the tunnel to be constructed, generating an environment model through the surface-related data information, and generating a tunnel model according to the tunnel structure design information; and combining the environment model and the tunnel model to form a three-dimensional tunnel model; and S3: calculating predicted force information of each point in the tunnel; inputting real-time tunnel image information into the risk network model to obtain tunnel feature information in the real-time tunnel image information; identifying the tunnel feature information to obtain risk information in the process of the tunnel construction; and assessing a tunnel construction risk.

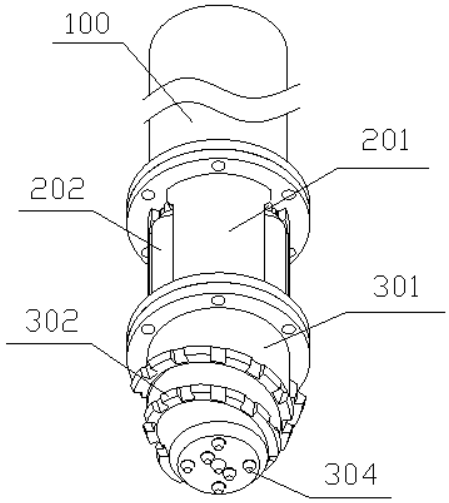


21: 2023/11232. 22: 2023/12/06. 43: 2024/06/06
51: G01N
71: China Geological Survey Natural Resources Comprehensive Survey Command Center
72: Shao Hai, Yin Zhiqiang, Pang Jumei, Lu Qingyuan, Wan Liqin, Peng Ling, Xing Bo, Huang Guorui, He Zekang, Jin Aifang
33: CN 31: 202311150074.9 32: 2023-09-07

54: AN DEVICE AND METHOD FOR EXCAVATING HETEROGENEOUS GROUND SUBSTRATE

00: -

The invention discloses an device and method for excavating heterogeneous ground substrate, the excavation device comprises a drilling rod, a roller-type compacting mechanism and a drilling head, a rotary excavation type percussion crushing mechanism is constructed between the roller-type compacting mechanism and the drilling head, the upper end of the rotary extrusion type percussion crushing mechanism is constructed with a lifting mechanism, the lifting mechanism is connected with the roller-pressing compacting mechanism, and a supply and discharge channel is constructed between the drilling rod, the roller-pressing compacting mechanism and the drilling head; The present invention can adapt to the excavation operation of different surface substrates, without replacing equipment, and the operation is simple, convenient, and has extremely high excavation efficiency. The present invention is applicable to the technical field of surface matrix excavation.



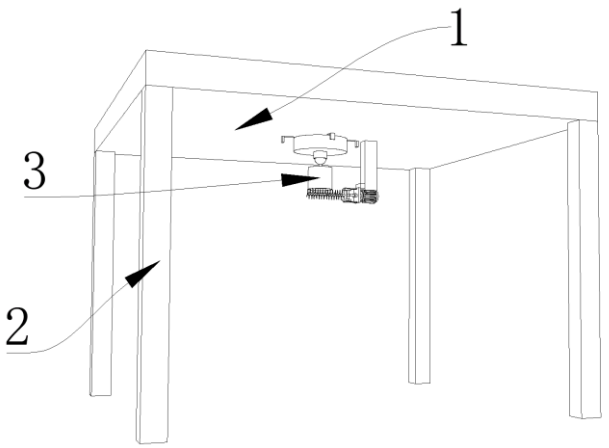
21: 2023/11233. 22: 2023/12/06. 43: 2024/06/06
51: F16M
71: Zhang Mengwen
72: Zhang Mengwen, Chen Tianjiao

54: MONITORING DEVICE CONVENIENT FOR DISASSEMBLY AND ASSEMBLY FOR CONTROL ENGINEERING

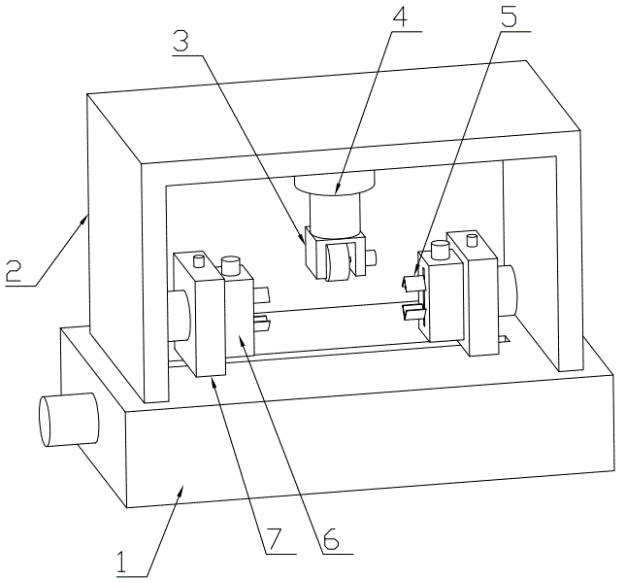
00: -

The present invention relates to the field of monitoring devices, in particularly to a monitoring device convenient for disassembly and assembly for control engineering, including a top plate. Troughs penetrate through and are arranged at a middle part of a bottom of the top plate, a first fixing base is arranged in the troughs, and telescopic rods penetrate through and are fixedly connected to front,

rear, left and right sides of the first fixing base. In the present invention, the telescopic rods and the springs are shrunk by pressing the compression rods, the first fixing base is placed into the troughs, the clamping rods are aligned with holes in the troughs, the compression rods are loosened, and under the cooperation of the telescopic rods and the springs, the clamping rods and the compression rods slide towards the hole, thereby limiting the first fixing base.

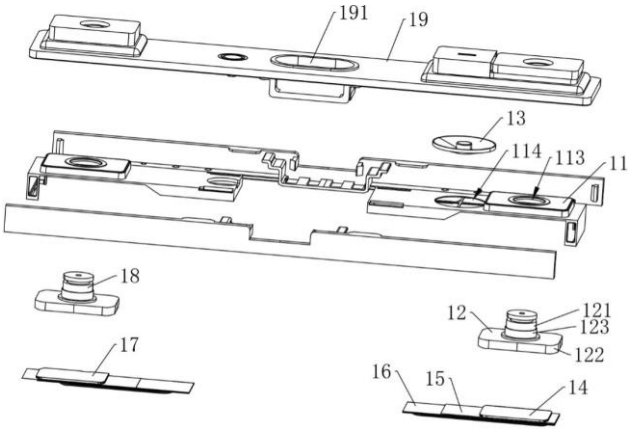


21: 2023/11234. 22: 2023/12/06. 43: 2024/06/06
51: G01N
71: Zhengzhou Research Institute of Mechanical Engineering Co., Ltd.
72: Dou Xiaopeng, Guan Rongxin, Lv Pangong, Wang Dongfei, Ma Chengtian, Wang Huadong
54: POLISHING FIXTURE FOR METALLOGRAPHIC EXAMINATION
00: -
The invention discloses a polishing fixture for metallographic examination, belonging to the technical field of metallographic examination, which comprises a polishing fixture for metallographic examination, comprising a base, a bracket fixedly connected to the base, a hydraulic telescopic rod arranged in the bracket, and two moving plates are slidably arranged on the base, a clamping box is arranged on each of the moving plates, and two bearing plates are slidably arranged on one side of the clamping box; a rotating groove is arranged in each of the moving plates, a rotating block fixedly connected with the clamping box is rotatably arranged in the rotating groove, and an operating block fixedly connected with the rotating block is arranged on one side of each of the moving plates; an inserted link is inserted into each of the moving plates, jacks are arranged on the rotating block, and the inserted link is inserted into the jacks. According to the application, the clamping structure is arranged on the rotatable rotating block, and the rotation of the rotating block drives the clamping structure to rotate, so that the fixing direction of the circumferential part can be quickly and conveniently changed without disassembling the clamping structure, and the problem that the clamping direction of the metal part is time-consuming and laborious in the prior art can be solved.

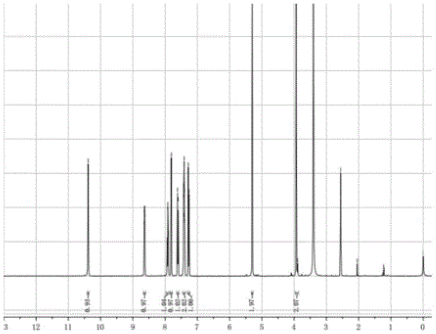


21: 2023/11235. 22: 2023/12/06. 43: 2024/06/06
51: H01M
71: SHENZHEN HITHIUM ENERGY STORAGE TECHNOLOGY CO., LTD., XIAMEN HITHIUM ENERGY STORAGE TECHNOLOGY CO., LTD.
72: XU, Weidong, XIONG, Yongfeng, CHEN, Jinqiang
33: CN 31: 202310091049.1 32: 2023-02-09
54: ENERGY STORAGE APPARATUS AND ELECTRIC DEVICE
00: -
Provided are an energy storage apparatus and an electric device. The energy storage apparatus includes a support, a pole, a stimulus-response member, a connector, and a first insulation member. The support has a first side and a second side opposite to each other. The support has a mounting hole and a vent hole spaced apart from each other. The connector is located at the first side and includes first and second connection portions

connected to each other. The first and second connection portions face towards each other after being folded. The first connection portion is connected to the pole, and the second connection portion is configured to be connected to a tab. The first insulation member is attached to the first connection portion and extends towards the vent hole. The vent hole is partially covered with the first insulation member in a thickness direction of the support, and at least partially uncovered with the first insulation member. Through the above arrangement, welding slag is prevented from entering a cover plate assembly or an electrode assembly, which improves safety and lowers safety hazards.



21: 2023/11246. 22: 2023/12/06. 43: 2024/06/07
51: C07D
71: ANQING LANGKUN PHARMACEUTICAL CO., LTD
72: YUE, Yongli, SHEN, Yanyang, RAO, Jingwei, LU, Fei, LIN, Li, KE, Shangfeng
33: CN 31: 202210251646.1 32: 2022-03-15
54: METHOD FOR PREPARING N-(3-CHLORO-4-(2-PYRIDYLMETHOXY)PHENYL)-2-CYANOACETAMIDE
00: -
Provided is a method for preparing a pharmaceutical intermediate N-(3-chloro-4-(2-pyridylmethoxy)phenyl)-2-cyanoacetamide. The method comprises: taking 3-chloro-4-fluoronitrobenzene and 2-pyridinemethanol as raw materials for a substitution reaction under an alkaline condition to generate N-(3-chloro-4-(2-pyridylmethoxy)nitrobenzene; then under an acidic condition, performing reduction using iron powder to generate N-(3-chloro-4-(2-pyridylmethoxy)aniline; and then performing a condensation reaction on the N-(3-chloro-4-(2-pyridylmethoxy)aniline and cyanoacetic acid under the condition of a condensing agent to generate the N-(3-chloro-4-(2-pyridylmethoxy)phenyl)-2-cyanoacetamide. The method is simple to operate, mild in condition, and suitable for large-scale industrial production.

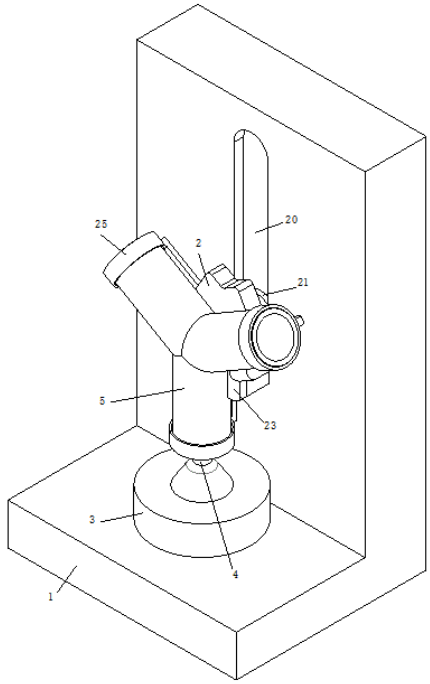


21: 2023/11256. 22: 2023/12/06. 43: 2024/06/07
51: A23F
71: Qimen Anhui Keemun Black Tea Co., Ltd.
72: Guofu Lu, Fangming Zhu, Chuangbin Feng
54: A METHOD FOR PREPARING BAMBOO FLAVOR BLACK TEA
00: -
The invention discloses a method for preparing bamboo flavor black tea. In the invention, in the process of preparing bamboo fragrant black tea, the tea leaves and bamboo leaves are mixed, and after steaming in a steam tube, the bamboo leach powder is mixed, so that the bamboo leach powder can adhere to the surface of the tea uniformly, and the surface of the tea will not be completely wrapped in a thick layer. The concentration of bamboo leaching powder is high and the bamboo fragrance is rich. The ratio of bamboo fragrance and tea fragrance can be changed by controlling the amount of bamboo leaching powder. Thus, the black tea obtained by the preparation method has the characteristics of strong bamboo fragrance and long-lasting fragrance. At the same time, the addition of bamboo leach powder in the cooking process can make the tea still contain fine powder, and the cooking has a special effect. Due to the water surface tension and the increase and opening of leaf pores and other factors, the fine powder is penetrated into the tea. When brewing tea, the taste of tea and bamboo gradually oozes out, and bamboo fragrant black tea is more durable. Spray drying can

ensure that the first tea water bamboo taste is the most concentrated, fine powder cooking can keep bamboo fragrance lasting.

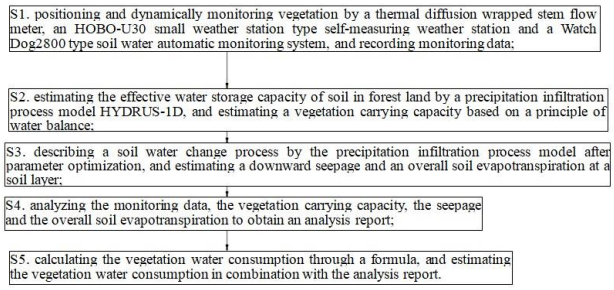
21: 2023/11267. 22: 2023/12/07. 43: 2024/06/07
51: A61K
71: Hainan Tropical Ocean University
72: YU Shuchi
54: ANTI-INFLAMMATORY TOOTHPASTE CAPABLE OF INHIBITING ORAL INFLAMMATION
00: -
The invention belongs to the technical field of medical, dental or cosmetic preparations, in particular to an anti-inflammatory toothpaste containing Ilex latifolia Thunb extract. The toothpaste consists of the following components in parts by weight: 1-3 parts of Houttuynia cordata extract; 7-10 parts of Ilex latifolia Thunb extract; 15-20 parts of humectant; 10-30 parts of friction agent; 0.5-1.5 parts of foaming agent; 0.5-1.5 parts of adhesive; 0.5 part of stabilizer; 0.5-0.7 part of edible essence; the balance is deionized water. The invention utilizes the natural antibacterial activity and antioxidant properties of Houttuynia cordata and Ilex latifolia Thunb, so that toothpaste can inhibit oral inflammation and achieve zero addition of preservatives.

21: 2023/11273. 22: 2023/12/07. 43: 2024/06/07
51: B24B
71: Hebei Century New Star Pipe Industry Co., Ltd
72: Fan Xinglong
33: CN 31: 202311357778.3 32: 2023-10-19
54: DEVICE FOR POLISHING INNER WALLS OF Y-SHAPED THREE-WAY PIPE FITTING
00: -
The present invention relates to the technical field of three-way pipe fitting polishing, and specifically provides a device for polishing inner walls of a Y-shaped three-way pipe fitting, including: a fixing station, a clamping-fixing-sliding mechanism and a polishing mechanism. According to the present invention, the inner walls of the three through pipes of the three-way pipe are sequentially polished by the polishing mechanism by means of the cooperation of the clamping-fixing-sliding mechanism and the polishing mechanism. In addition, when the polishing mechanism polishes the three-way pipe, a rotating drive group in the polishing mechanism drives a rotating cylinder and arc-shaped polishing members on the rotating cylinder to rotate, and a flexible fixing piece drives a sponge abrasive paper to slide back and forth along a semi-elliptical rail formed by two rotating arc plates and a U-shaped cartridge, thus completely polishing an inner wall of a through pipe with an opening of the three-way pipe facing downwards and an arc-shaped junction of the three-way pipe opposite the rotating cylinder, which avoids the problem that the smoothness of the inner walls of the three-way pipe are reduced due to the incomplete polishing and the use requirements cannot be met.



21: 2023/11277. 22: 2023/12/07. 43: 2024/06/07
51: G06Q
71: INNER MONGOLIA ACADEMY OF FORESTRY SCIENCE
72: HONG, Guangyu, WANG, Xiaojiang, WANG, Liying, HAI, Long, GAO, Xiaowei, ZHANG, Lei, LI, Zhuofan, LI, Zihao, TIAN, Feng, HAN, Mingliang
54: ESTIMATION METHOD FOR VEGETATION WATER CONSUMPTION FOR ECOLOGICAL RESEARCH
00: -
Disclosed is an estimation method for vegetation water consumption for ecological research. With respect to the problem of inconvenience in estimating the vegetation water consumption in the prior art, the present invention proposes the

following solution, which comprises the following steps: Positioning and dynamically monitoring vegetation by a thermal diffusion wrapped stem flow meter, an HOBO-U30 small weather station type self-measuring weather station and a Watch Dog2800 type soil water automatic monitoring system, and recording monitoring data; Estimating the effective water storage capacity of soil in forest land by a precipitation infiltration process model HYDRUS-1D, and estimating a vegetation carrying capacity based on a principle of water balance; and Describing a soil water change process by the precipitation infiltration process model after parameter optimization, and estimating a downward seepage and an overall soil evapotranspiration at a soil layer.

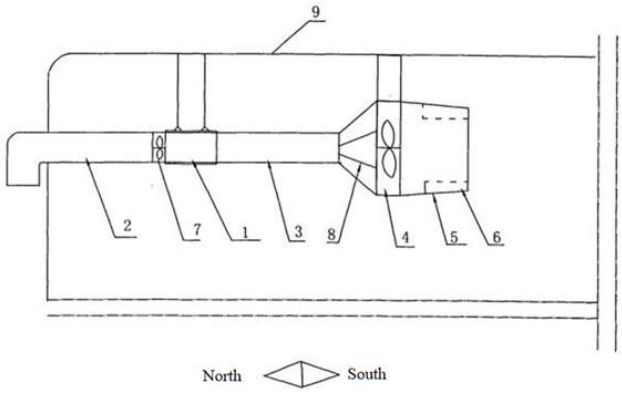


21: 2023/11280. 22: 2023/12/07. 43: 2024/06/07
51: A01N
71: SHANDONG BAIYU AGRICULTURAL SCIENCE AND TECHNOLOGY DEVELOPMENT CO., LTD
72: YUAN, Shengbo, YUAN, Qiang, LI, Zhihong

54: PHYSICAL OZONE PREVENTION AND CONTROL SYSTEM FOR FRUIT AND VEGETABLE DISEASES IN SOLAR GREENHOUSE

00: -

A physical ozone prevention and control system for fruit and vegetable diseases in a solar greenhouse comprises an ozone generator (1), which is hoisted in a solar greenhouse; an air inlet end of the ozone generator (1) is connected with one end of an air inlet pipe (2); the other end of the air inlet pipe (2) extends out of the solar greenhouse; an air outlet end of the ozone generator (1) is connected with one end of an ozone dilution pipe (3); the other end of the ozone dilution pipe (3) is opposite to the air inlet end of a diffusion fan (4); and an air outlet of the diffusion fan (4) is connected with the diffusion pipe (5). The present invention has simple structure, uniform and rapid ozone diffusion, good effect, capability of fully meeting the ozone concentration required for disinfection and sterilization, and broad market prospects.



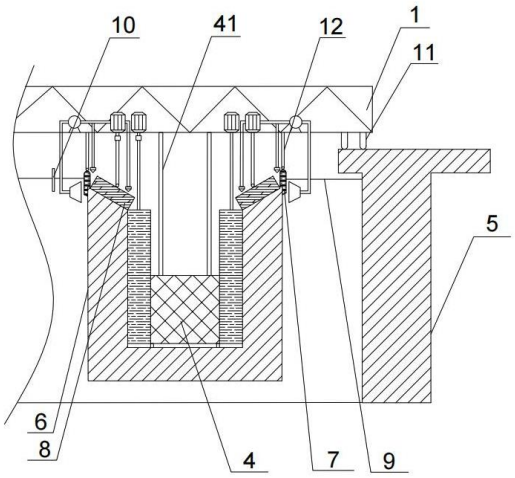
21: 2023/11281. 22: 2023/12/07. 43: 2024/06/07
51: B01D; C02F
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: LI, Songya, WANG, Linpei, LIU, Biao, LI, Jing, WANG, Le, GAO, Hongbin, ZHOU, Yiming, WANG, Xiaoyan, CHEN, Binghua, MAO, Yanli, KANG, Haiyan, WU, Junfeng
33: CN 31: 202322440980.4 32: 2023-09-08

54: CLEANING AND ALGAE REMOVAL DEVICE FOR RADIAL-FLOW SECONDARY SEDIMENTATION TANK IN SEWAGE TREATMENT PLANT

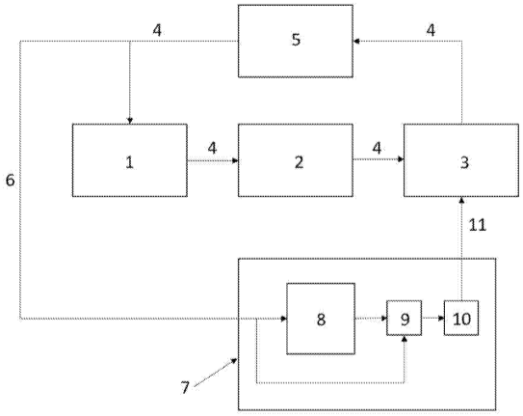
00: -

The present utility model discloses a cleaning and algae removal device for a radial-flow secondary sedimentation tank in a sewage treatment plant, and relates to the technical field of biological treatment of sewage. The cleaning and algae removal device comprises a bridge frame of a sludge scraping and sucking machine provided at a top of the secondary sedimentation tank, the bridge frame of the sludge scraping and sucking machine is connected to a sweeping mechanism and a flushing mechanism, wherein the sweeping mechanism comprises a side wall brush, a slope brush and a U-shaped brush, the side wall brush is positioned on an inner side wall of an effluent channel of the secondary sedimentation tank, the slope brush is positioned on an effluent slope of the effluent channel, and the U-shaped brush is positioned on an effluent weir of the secondary sedimentation tank; and the flushing mechanism is used to suck algae-containing water in the secondary sedimentation tank and flush the cleared algae, a filter screen used to collect algae is

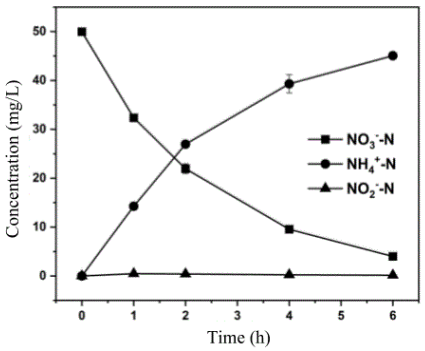
provided in the effluent channel, and a top of the filter screen is connected to the bridge frame of the sludge scraping and sucking machine through a connecting rod. According to the present utility model, the side wall brush, the slope brush and the U-shaped brush cooperate, so that the cleaning effect can be ensured, the filter screen is provided to collect and remove algae, and the algae is prevented from falling into the secondary sedimentation tank to continuously induce algae growth and from flowing into subsequent treatment to affect the subsequent treatment process.



21: 2023/11285. 22: 2023/12/07. 43: 2024/06/03
51: A01K; C02F
71: APRIA SYSTEMS, S.L.
72: GOMEZ RODRIGUEZ, Pedro Manuel, IBAÑEZ MENDIZABAL, Raquel, URTIAGA MENDIA, Ana María, ORTIZ URIBE, Inmaculada
33: ES 31: U202131422 32: 2021-07-07
54: FRESHWATER-RECIRCULATING AQUACULTURE SYSTEM
00: -
Disclosed is a freshwater-recirculating system of the type including: a pre-treatment module for pre-treating water from an aquaculture tank; an oxidation module for eliminating pollutants; and a line for recirculating the treated freshwater to the cultivation tank, before passing same through a post-treatment module. The system also includes a module for the electrochemical generation of oxidants, which is disposed in an auxiliary line, outside the main line for recirculating the treated freshwater, and which is supplied by a line for recirculating water coming from the outlet of the post-treatment module, the module for the electrochemical generation of oxidants being uncoupled from the oxidation module but in fluid communication with same by means of a line supplying electrogenerated oxidants.



21: 2023/11310. 22: 2023/12/08. 43: 2024/06/10
51: H01M
71: Tsinghua University
72: LI, Miao, CUI, Xiaofeng, LIU, Xiang
54: MODIFIED IRON-BASED METAL-ORGANIC FRAMEWORK ELECTROCATALYST, AND PREPARATION METHOD AND APPLICATION THEREOF
00: -
The present invention relates to a modified iron-based metal-organic framework electrocatalyst, and a preparation method and application thereof. The modified iron-based metal-organic framework electrocatalyst prepared through the present invention is not easy to agglomerate, has high stability, and has excellent reaction activity and product selectivity when being used for catalyzing nitrate reduction reaction.

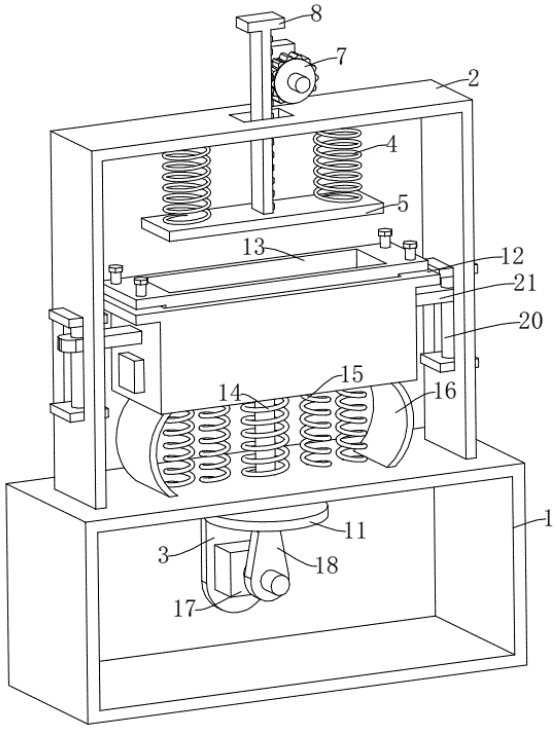


21: 2023/11314. 22: 2023/12/08. 43: 2024/06/10
51: G01N
71: Institute of Biotechnology and Food Science, Hebei Academy of Agricultural and Forestry Sciences
72: Zhang Jiakun, Qian Xun, Zheng Zhenshan, Chen Yongda, Li Limei

54: PESTICIDE EXTRACTION DEVICE FOR PESTICIDE RESIDUE DETECTION

00: -

The invention discloses a pesticide extraction device for pesticide residue detection, which comprises a bottom frame, a fixed frame and a fixed plate, wherein the bottom frame is arranged in a quadrate shape, the fixed frame is fixedly arranged on the top wall of the bottom frame, and the fixed plate is fixedly arranged on the top wall in the bottom frame, and further comprises a material pressing component and an extracting component. The invention belongs to the technical field of pesticide extraction, in particular to a pesticide extraction device for pesticide residue detection, which can squeeze out juice from agricultural products to mix with a solution, and can efficiently and fully mix the solution with a sample to ensure the accuracy of detection results.

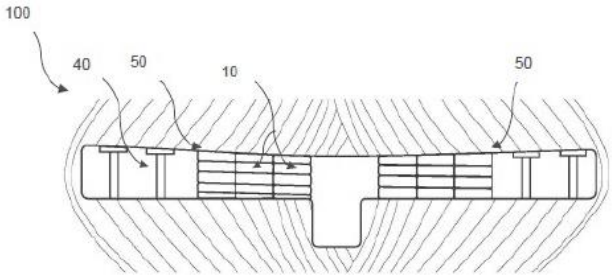


21: 2023/11316. 22: 2023/12/08. 43: 2024/06/10
51: E21D
71: MPC CHEMICALS (PTY) LTD.
72: KEEN, JOHN EDWARD
33: ZA 31: 2022/13284 32: 2022-12-08

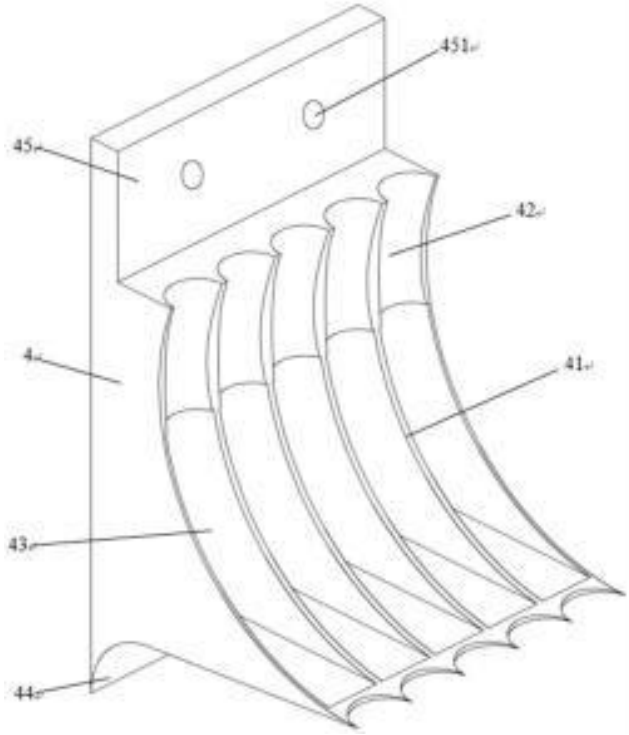
54: UNDERGROUND SUPPORT STRUCTURE AND METHOD OF USING SAME

00: -

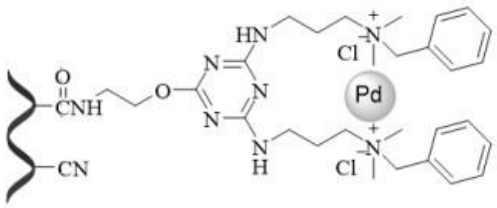
A method for increasing valuable mineral recovery by underground dip pillar replacement, the method comprising: determining the extent of a beam which may overlay a reef; a determination of desired stoping width for correct width to height ratio calculations for a support structure; a calculation of Rockwell hardness of solid particles and/or the uni-axial compressive strength of rock mass to satisfy requirements for appropriate support medium to be located within a receptacle; determining the size and design of a receptacle to ensure tight abutment against hanging and footwall; cleaning of blasted ore, and sweeping and recovery of fines, occur in the underground dip pillar replacement area where the support structure is to be placed; one or more receptacles devoid of support medium is located in the cleaned-out area; and filling said receptacle with a non-cementitious conglomerate of solid particles until said receptacle is positioned tight up against the hanging wall.



21: 2023/11317. 22: 2023/12/08. 43: 2024/06/10
51: E02F
71: INSTITUTE OF WATER RESOURCES OF PASTORAL AREA, MWR
72: GAO, Tianming, YUE, Zhengwen, YANG, Zhenqi, LIU, Jing, MIAO, Henglu, WANG, Lixia, FENG, Xiu, YUCHI, Wensi, YAO, Zhenyu, ZHAO, Tianqi, LIU, Xinyu, YANG, Feng, CHEN, Yuxin
33: CN 31: 2023104664636 32: 2023-04-27
54: DESILTING DEVICE FOR WATER CONSERVANCY ECOLOGICAL ENGINEERING
00: -
The present invention discloses a desilting device for water, comprising a walking mechanism having a surface provided with a sliding groove perpendicular to a walking direction, a sliding block reciprocates in the sliding groove in the sliding groove, a hydraulic mechanical arm having a base which is installed on the sliding block; a desilting box connected to a working end of the arm. The bottom of the desilting box is provided with a plurality of pumping ports and telescopic reamer mechanisms. Side walls of the desilting box are provided with a desilting and obstacle removal shovel having a cutting edge. a maximum downward extension length of the telescopic reamer won't exceed the bottom surface of the shovel body. The shovel comprises has a structure formed by stretching an isosceles trapezoid; a bevel of the shovel body is concave in the direction of a facade to form a curved slope.

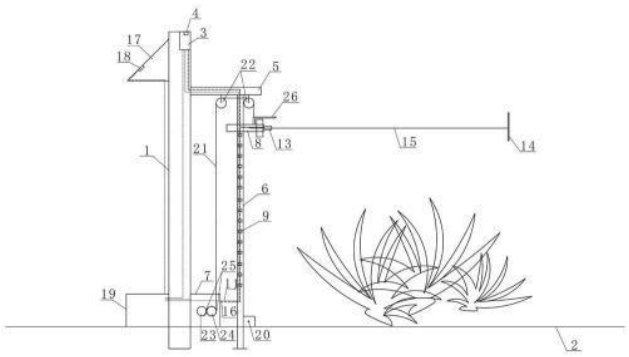


21: 2023/11318. 22: 2023/12/08. 43: 2024/06/10
51: B01J; C07C
71: NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: REN, Bo, LIU, Chunyuan, WU, Zhiying, ZHENG, Jiangyu, LIU, Chunyan, XIAO, Jian
33: CN 31: 202310202653.7 32: 2023-03-06
54: MULTIDENTATE AZA LIGAND PALLADIUM FUNCTIONALIZED FIBER AS WELL AS PREPARATION METHOD AND USE THEREOF
00: -
The present disclosure belongs to the technical field of palladium catalyst preparation, particularly relates to a multidentate aza ligand palladium functionalized fiber as well as a preparation method and use thereof. The multidentate aza ligand palladium functionalized fiber has the structure of Formula (I), high Heck reaction catalysis activity and many cycle use times, thereby reducing the amount of palladium in Heck reaction catalysis and reducing cost and environmental pollution. The multidentate aza ligand palladium functionalized fiber is suitable for catalysis of solvent-free systems, and is cheap and easily available in preparation raw materials and simple and feasible in preparation process.

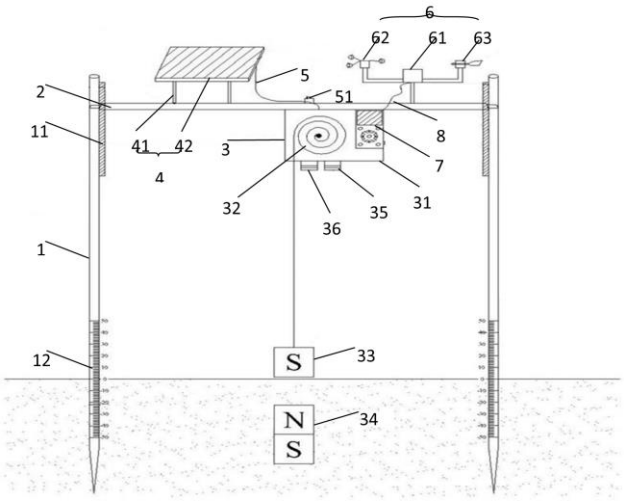


Formula (I)

21: 2023/11319. 22: 2023/12/08. 43: 2024/06/10
51: G01C
71: INSTITUTE OF WATER RESOURCES OF PASTORAL AREA, MWR
72: GAO, Tianming, YUE, Zhengwen, ZHANG, Jing, LIU, Jing, ZHANG, Weiming, GUO, Haiwei, LU, Yuyang, WANG, Xin, YANG, Feng, CHEN, Yuxin, LIU, Xinyu,
33: CN 31: 2023103809394 32: 2023-04-11
54: AUTOMATIC MEASURING DEVICE FOR HEIGHTS OF SHRUB GRASS PLANTS
00: -
Disclosed is an automatic shrub grass height measuring device for heights of shrub grass plants, comprising a supporting upright rod having a bottom fixed with the ground and provided with an automatic lifting device, a data collector, a wireless transmission system and a solar power supply system; the lifting device comprises a fixing transverse rod, an electrode upright rod, a pulley and wire rope assembly and a motor driving a lifting located below the fixing transverse vertically move along the electrode upright rod; a four-channel camera is installed at one end of the automatic lifting disc away from the supporting upright rod; the four-channel camera is located on one side of a plant; a white bottom plate is connected and fixed with the automatic lifting disc through a bottom plate transverse rod, and the white bottom plate is located on the other side of the plant.

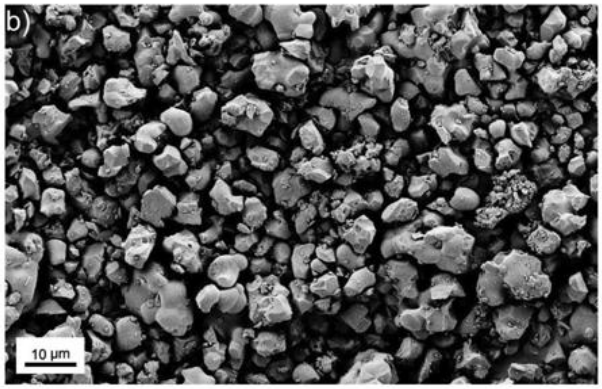


21: 2023/11320. 22: 2023/12/08. 43: 2024/06/10
51: G01C; G01P
71: INSTITUTE OF WATER RESOURCES OF PASTORAL AREA, MWR, INNER MONGOLIA AUTONOMOUS REGION TERRITORIAL PLANNING INSTITUTE
72: GUO, Jianying, YANG, Zhenqi, WANG, Youfeng, YAO, Zhenyu, LIU, Xinyu, ZHAO, Tianqi, ZHOU, Xu, HUANG, Yun, TIAN, Tian, WANG, Ziwei,
54: MAGNETIC INDUCTION WIND EROSION PROCESS MONITORING EQUIPMENT
00: -
Disclosed is a magnetic induction wind erosion monitoring device, comprising two vertical columns having grooved rails vertically inserted into wind sand ground, wherein opposite side walls of the two vertical columns having grooved rails; a magnetic induction measuring mechanism comprises an installing plate connected to a magnetic induction winding assembly, a first and a second magnetic suction element and a rangefinder; the installing plate is fixed to the supporting plate; the first magnetic suction element is fixedly connected with a winding end of the magnetic induction winding assembly and located on an upper surface of the wind sand ground; the second magnetic suction element is located in the wind sand ground and corresponds to the first magnetic suction element; the rangefinder is installed under the installing plate, a measuring end is arranged towards the ground; a data monitoring mechanism for monitoring and recording wind speed and direction data.



21: 2023/11322. 22: 2023/12/08. 43: 2024/06/10

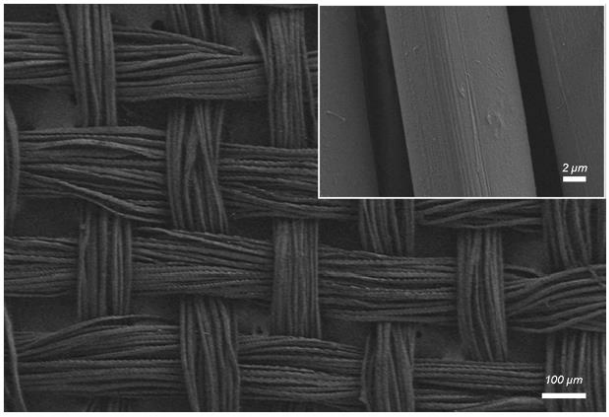
51: C09K; H01L
71: NINGBO UNIVERSITY
72: LI, Jing, WU, Huihui
54: THE PREPARATION METHOD OF ORGANIC INDIUM SALT/RARE EARTH STRONTIUM ALUMINATE COMPOSITE BLUE LIGHT MATERIAL
00: -
The invention discloses a preparation method of organic onium salt/rare earth strontium aluminate composite blue light material. By combining organic onium salt with rare earth strontium aluminate, a material which can emit blue light of 420~460nm in the dark is obtained. The blue light material prepared by the invention absorbs visible light for 10 minutes, can continuously glow for more than 10 hours in the dark state, and the initial residual brightness can reach up to 1~2.5cd/m2; The 420-460nm blue light emitted by the blue light material is one of the three primary colors, and the combination of one or two of the red light materials and green light materials can prepare any kind of multi-color rare earth luminous materials, which can expand the application range of rare earth luminous materials, especially the rare earth strontium aluminate blue light fiber luminous materials, and can be used for blue light material products or blue light fiber raw materials.



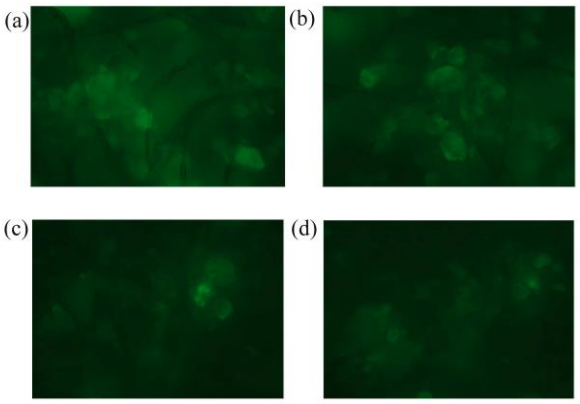
21: 2023/11323. 22: 2023/12/08. 43: 2024/06/10
51: D06P
71: NINGBO UNIVERSITY
72: WU, Haifang, WU, Huihui, ZHU, Panpan, ZHOU, Jiali, LI, Jing
54: THE PLANT DYEING METHOD THAT DIRECTLY DISPLAYS THE PATTERN
00: -
The invention provides a plant dyeing method that directly displays the pattern, which relates to the field of plant dyeing. The direct floral plant dyeing method comprises the following steps: S1. Alkali printing treatment of silk-faced interwoven fabric, coating pattern on the surface of cotton-linen interwoven fabric, S2. Prepare the dyed grey cloth to be dyed, take one of the onion skins, pomegranate skins, chestnut shells, grape skins, and cook it. The patent forms invisible patterns through the process of fiber and yarn material changes, weaving process changes, and fabric pattern pretreatment, etc. Consumers can obtain dye solution by cooking and dyeing chestnut shell, onion skin, chestnut shell and other common dyeing materials at home, and the fabric products with prefabricated patterns, such as silk scarves, clothing, and home textiles, are directly boiled and soaked. It can easily and quickly dye products with corresponding decorative patterns, and can eliminate the cumbersome traditional printing and dyeing process in this process, and experience the happiness of customized plant dyeing patterns.

21: 2023/11324. 22: 2023/12/08. 43: 2024/06/10
51: D06P
71: NINGBO UNIVERSITY
72: ZHU, Panpan, WU, Huihui, WU, Haifang, ZHOU, Jiali, LI, Jing
54: THE ALKALINE PRINTING DEGUMMING PROCESS
00: -
The invention provides an alkaline printing degumming process, which relates to the technical field of printing and dyeing process. The alkaline agent printing degumming process includes step 1, preparation of oyster ash water; Step two, oyster ash water degumming; Step 3, anti-dye treatment; Step 4. Dye solution extraction; Step 5: Dyeing. Through the steps of preparation of oyster grey water, degumming of oyster grey water, anti-dye treatment, dye solution extraction and dyeing, the effects of pH, treatment temperature, treatment time and bath ratio on the degumming effect of oyster grey water were determined, as well as the color development rules of fabric alkali printing under different degumming rates. Taking dyed pomegranate peel extract as an example, the value of L* of fabric was significantly increased with the increase of degumming rate. The a* and b* values of the hue decreased slowly, and the color yield (K/S value) of the fabric surface decreased. When the degumming rate is close to

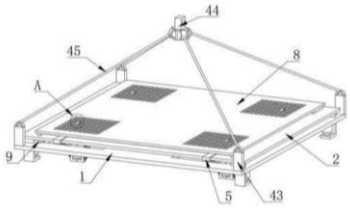
complete, the above values and the color rendering effect gradually become stable. It fills the technical gap of alkali printing degumming process and provides a scheme for mass production.



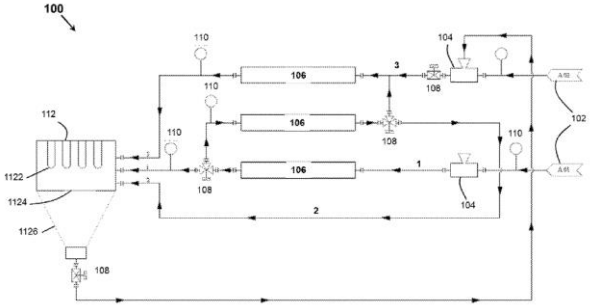
21: 2023/11325. 22: 2023/12/08. 43: 2024/06/10
51: D06P
71: NINGBO UNIVERSITY
72: LI, Jing, WU, Huihui
54: THE LIGHT-HEAT DUAL-RESPONSE INTELLIGENT COLOR-CHANGING COTTON FABRIC
00: -
The invention provides an alkaline printing degumming process, which relates to the technical field of printing and dyeing process. The alkaline agent printing degumming process includes step 1, preparation of oyster ash water; Step two, oyster ash water degumming; Step 3, anti-dye treatment; Step 4. Dye solution extraction; Step 5: Dyeing. Through the steps of preparation of oyster grey water, degumming of oyster grey water, anti-dye treatment, dye solution extraction and dyeing, the effects of pH, treatment temperature, treatment time and bath ratio on the degumming effect of oyster grey water were determined, as well as the color development rules of fabric alkali printing under different degumming rates. Taking dyed pomegranate peel extract as an example, the value of L* of fabric was significantly increased with the increase of degumming rate. The a* and b* values of the hue decreased slowly, and the color yield (K/S value) of the fabric surface decreased. When the degumming rate is close to complete, the above values and the color rendering effect gradually become stable. It fills the technical gap of alkali printing degumming process and provides a scheme for mass production.



21: 2023/11331. 22: 2023/12/08. 43: 2024/06/10
51: E01D
71: SHANDONG FANGDA HANGXIAO STEEL STRUCTURE TECHNOLOGY CO., LTD.
72: ZHAO, Zhikun, WANG, Yu, LI, Kun, SUN, Fusheng, ZHENG, Guizhi, FAN, Zongyong, ZHANG, Zihao, WANG, Guorong
33: CN 31: 202211689599.5 32: 2022-12-27
54: INSTALLATION MACHINE AND METHOD FOR ASSEMBLING STEEL-CONCRETE COMPOSITE BEAM BRIDGE
00: -
An installation machine for assembling a steel-concrete composite beam bridge includes a supporting base, where a movable frame is arranged above the supporting base, two first rectangular holes are formed on the supporting base, a slidably connected movable plate is arranged in each of the first rectangular holes, a sliding plate is arranged above the movable plate, the movable frame penetrates through the sliding plate, the movable frame and the supporting base are connected through a depressor, two second rectangular holes are formed on the movable plate, a slidably connected slidable base is arranged in each of the second rectangular holes, a top plate is arranged above the movable frame, the top plate and the supporting base are connected through a first supporting part, a lifting plate penetrates through the slidable base, and the lifting plate is slidably connected to the sliding plate.



21: 2023/11332. 22: 2023/12/08. 43: 2024/04/04
51: B02C
71: HEGDE, Shreepad
72: HEGDE, Shreepad
33: IN 31: 202141023139 32: 2021-05-24
54: A SYSTEM AND A METHOD FOR MICRONIZATION OF SOLID PARTICLES USING VAVULAR CONDUIT
00: -
A system (100) for micronization of solid particles using valvular conduit comprised one or more compressed gas lines (1) (2) (3) provided with a respective compressed gas inlet (102); one or more powder feeders (104), each installed in a respective compressed gas lines (1) (2) (3); one or more valvular conduit modules (106), each made of a series of valves connected via a common passage, wherein each valvular conduit module (106) is connected downstream of the respective one or more powder feeders (104); a cyclonic separator (112) connected with all the respective compressed gas lines (1) (2) (3) connected with respective outlets of the respective one or more valvular conduit modules (106); and one or more particle size analyzers in combination with one or more directional valves (108) arranged on the compressed gas lines (1) (2) (3) proximal to the outlets of the one or more valvular conduit modules (106).



21: 2023/11356. 22: 2023/12/11. 43: 2024/06/11
51: F16K
71: ORKA TRUST
72: DUVENAGE, Rienzi

33: ZA 31: 2022/13791 32: 2022-12-21
54: NON-RETURN VALVES
00: -
The present invention relates to a diaphragm check valve, which includes a two-port body of unitary construction defining an inlet port and an outlet port, a valve chamber between the two ports and a diaphragm seat in the valve chamber. A pliable diaphragm is disposed transversely in the valve chamber, the pliable diaphragm arranged to seat sealingly into the diaphragm seat. The invention extends to a method of assembling the diaphragm check valve, in which the pliable diaphragm is inserted within the two-port body into the diaphragm seat and applying a positive pressure to an interior volume of the two-port body.

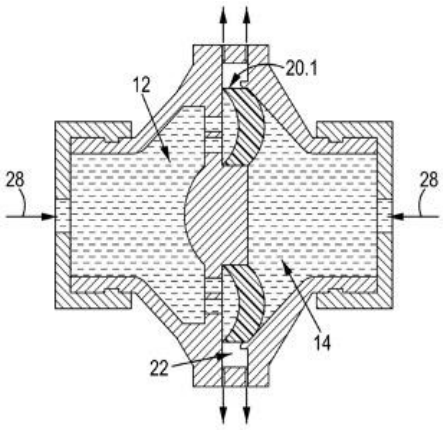


Figure 2A

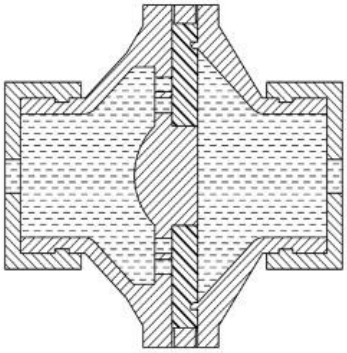


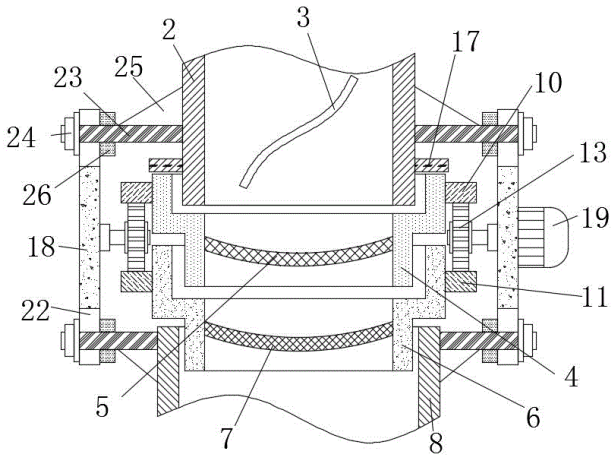
Figure 2B

21: 2023/11357. 22: 2023/12/11. 43: 2024/06/11
51: A01G
71: Horticulture Research Institute, Sichuan Academy of Agricultural Sciences, Pengzhou Rural Investment and Development Co., Ltd.

72: ZHANG, Zejin, TANG, Li, LIANG, Ying
54: METHOD FOR REDUCING NITROGEN APPLICATION AND INCREASING YIELD OF CUCUMBER
00: -
The present invention relates to the technical field of agricultural application, in particular to a method for reducing nitrogen application and increasing a yield of cucumber. The method includes: planting cucumber seedlings to obtain planted cucumber seedlings; applying a fertilizer to the planted cucumber seedlings, and applying fulvic acid and a microbial agent to obtain cucumber plants; where the microbial agent includes paenibacillus mucilaginosus; and total amount of the fulvic acid applied to each planted cucumber seedling is 0.003 g-0.03 g, such that nitrogen application reduction and yield increase of the cucumber are realized. A comprehensive effect of the paenibacillus mucilaginosus microbial agent and the fulvic acid can improve an absorption rate and a utilization rate of nitrogen in the cucumber, reduce supply of the nitrogen in the process of planting the cucumber, and further increase the yield of the cucumber.

21: 2023/11358. 22: 2023/12/11. 43: 2024/06/11
51: C04B
71: Kunming University of Science and Technology
72: XIE, Xian, WU, Yuyao, KANG, Bowen, CHEN, Shuiqi, TONG, Xiong, SONG, Qiang, ZHAO, Chu, XU, Wupeng, ZHANG, Shouxun
33: CN 31: 2023112969829 32: 2023-10-08
54: METHOD FOR PREPARING GEOPOLYMERS FROM OXIDIZED GOLD ORE HEAP-LEACHING TAILINGS
00: -
Disclosed in the present invention is a method for preparing geopolymers from oxidized gold ore heap-leaching tailings. The present invention includes the following steps: grinding and drying the oxidized gold ore heap-leaching tailings to obtain fine powder of oxidized gold ore heap-leaching tailings; then, uniformly mixing the fine powder of oxidized gold ore heap-leaching tailings and kaolin according to a mass ratio of 10:1 to obtain a mixture; calcining the mixture at 500-850 degree Celsius for 3-5 h, and performing cooling to obtain a calcined product; next, adding an activator, after uniform stirring, pouring the new mixture into a mold, performing smoothing after air is discharged, and performing standing at a room temperature for molding; and finally, performing demoulding to obtain the geopolymers. The geopolymers prepared in the present invention have the advantages of fast hardening, high molding strength and no need of high-temperature curing during a molding process.

21: 2023/11359. 22: 2023/12/11. 43: 2024/06/11
51: B01F
71: Chongqing Technology and Business University, Chongqing Technology and Business University science and technology Developing INC
72: Ping Ouyang, Haifeng Gong, Hong Yin, Ling Chen, Yafei Chen, Donglin He
33: CN 31: 202310049744.1 32: 2023-02-01
54: A GENERAL FUEL OIL ADDITIVE COMPOSITION, PRODUCTION PROCESS AND PROCESSING DEVICE
00: -
The invention relates to the technical field of fuel oil additive production, in particular to a general fuel oil additive composition, production process and processing device. The lower end of the feeding hopper is fixedly connected with a feeding pipe connected with it, and the lower end of the inner wall of the feeding pipe is fixedly connected with a guiding plate; the inner cavity of the first swivel is fixedly connected with the first filter screen; the inner cavity of the second swivel is fixedly connected with a second filter screen; the feeding pipe is connected to the outer side of the lower end of the first swivel; its beneficial effect is to ensure adequate contact with the fuel oil by adding an expansion agent to the traditional cleaning dispersant. This can improve the cleaning effect, the inner cavity of the first swivel and the second swivel are fixed with a first filter screen and a second filter screen, respectively. When the first filter and the second filter screen are reversed, the expansion agent can be ground into a fine powder. This allows the interior of the cleansing dispersant to be uniformly mixed to prepare a cleansing dispersant with an expansive agent.

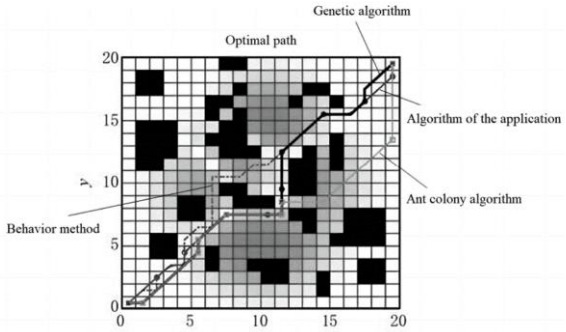


21: 2023/11360. 22: 2023/12/11. 43: 2024/06/11
51: B65D
71: CHENGDU VOCATIONAL & TECHNICAL COLLEGE OF INDUSTRY
72: Qian YU, Zhenzhong HE, Xiaoping LI
33: CN 31: 2023114844118 32: 2023-11-09

54: ROBOT PATH TRAJECTORY PLANNING METHOD BASED ON DISTRIBUTED MODEL PREDICTION

00: -

Disclosed is a robot path trajectory planning method based on distributed model prediction, including the following steps: S1, a polar coordinate position model with state information obtained by a robot as a target position relative to itself is established in a Cartesian coordinate system; S2, the target position of the robot and working space containing obstacles are modeled by adopting a distributed model to obtain a robot action space model; S3, a next state of the robot in the action space model is predicted by adopting a Markov decision process based on the polar coordinate position model to obtain a next state value; S4, the next state value is searched and iterated by adopting a cost function, and a motion point executed by the robot is output, thus forming a robot obstacle avoidance motion path. The application solves the obstacle avoidance problem of the existing robot in the complex environment.

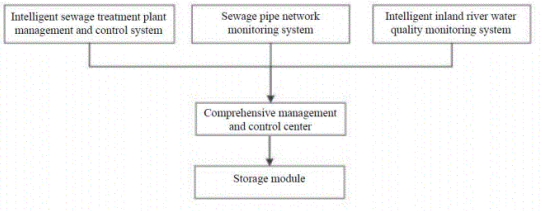


21: 2023/11399. 22: 2023/12/12. 43: 2024/06/14
51: C02F
71: China Northeast Municipal Engineering Design and Research Institute Co., Ltd.
72: DONG, Yanhong, YAN, Yu, LIU, Xueyong, ZHANG, Yong

54: INTEGRATED INTELLIGENT MANAGEMENT AND CONTROL SYSTEM OF SEWAGE AND WATER SYSTEMS

00: -

The present invention discloses an integrated intelligent management and control system of sewage and water systems, which is applied to the technical field of intelligent management and control of urban sewage and water systems. The system includes an intelligent sewage treatment plant management and control system, a sewage pipe network monitoring system, an intelligent inland river water quality monitoring system, a comprehensive management and control center, and a storage module. The intelligent sewage treatment plant management and control system, the sewage pipe network monitoring system, and the intelligent inland river water quality monitoring system send their data analysis situations to the comprehensive management and control center and store same via the storage module, and the comprehensive management and control center performs monitoring and management and control according to each data analysis situation.

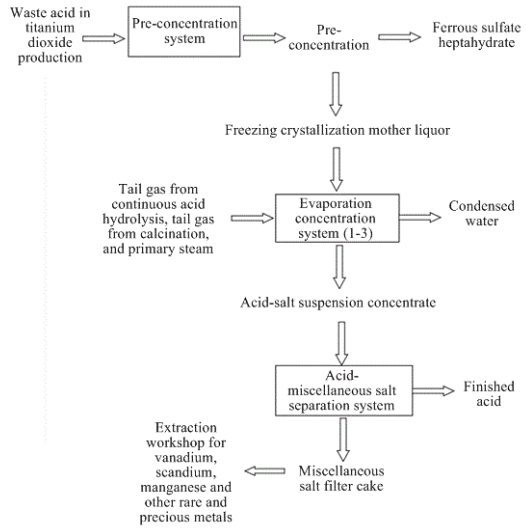


21: 2023/11407. 22: 2023/12/12. 43: 2024/06/14
51: C01B; C01G
71: Panzhihua HaifengXin Chemical Industry Co., Ltd.
72: JIANG, Ge, MA, Mingjian, LIU, Hongjin, XU, Tianlong, GUO, Hongdan
33: CN 31: 202211598908.8 32: 2022-12-14

54: METHOD FOR RECYCLING FERROUS SULFATE HEPTAHYDRATE AND SULFURIC ACID FROM WASTE ACID IN TITANIUM DIOXIDE PRODUCTION

00: -

The present disclosure provides a method for recycling ferrous sulfate heptahydrate and sulfuric acid from a waste acid in titanium dioxide production, including the following steps: step 1: pre-concentrating the waste acid in titanium dioxide production to obtain a pre-concentrated acid; step 2: cooling the pre-concentrated acid by a heat exchanger, and conducting freezing crystallization for a period of time to obtain the ferrous sulfate heptahydrate and a crystallization mother liquor; step 3: concentrating the crystallization mother liquor in a waste acid evaporation system to obtain precipitated miscellaneous salt-containing suspended concentrated acid and evaporation condensed water; and step 4: subjecting the precipitated miscellaneous salt-containing suspended concentrated acid to maturing and cooling, and then transferring a resulting product into a filter press dehydration system to allow a treatment to obtain a metal miscellaneous salt filter cake and a filtered finished acid.



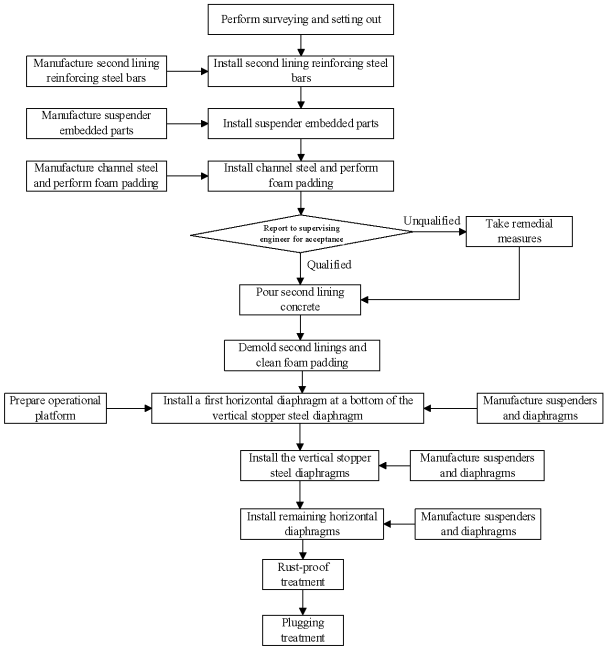
21: 2023/11410. 22: 2023/12/12. 43: 2024/06/14
51: E21D; E21F
71: CHINA RAILWAY 12TH BUREAU GROUP CO., LTD., THE THIRD ENGINEERING CO., LTD. OF CHINA RAILWAY 12TH BUREAU GROUP
72: MA, Xiping, LIU, Yuting, SHU, Wenjun, DONG, Shouqiang, LI, Zongzhi, WANG, Zhiqiang, LI, Wencan, XIAN, Yunhua, GAO, Chen, XIAO, Shuangqing, GAO, Yunlong
33: CN 31: 2023102970675 32: 2023-03-24

54: METHOD FOR CONSTRUCTING SUSPENDED DIAPHRAGM AIR DELIVERY DUCT OF HIGHWAY TUNNEL

00: -

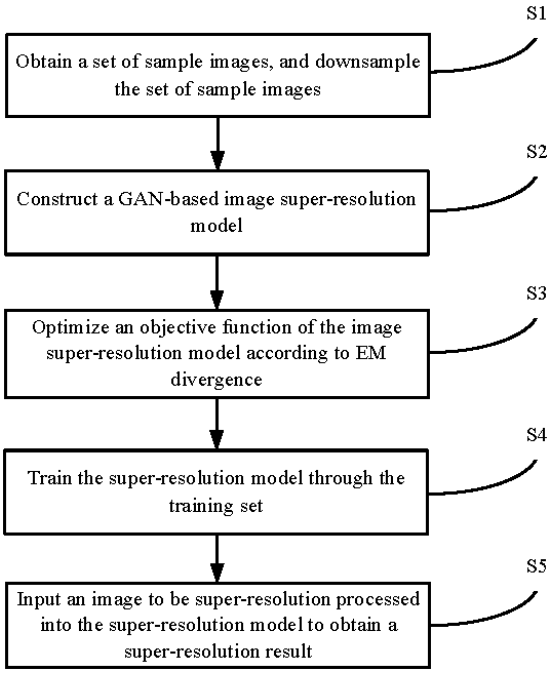
The present invention provides a method for constructing a suspended diaphragm air delivery duct of a highway tunnel and belongs to the technical field of highway tunnel construction. The method includes the following steps: S1, performing surveying and setting out; S2, installing second lining reinforcing steel bars; S3, installing suspender embedded parts; S4, installing channel steel and performing foam padding; S5, pouring second lining concrete; S6, demolding second linings and cleaning foam padding; S7, installing a first horizontal diaphragm at a bottom of a vertical stopper diaphragm; S8, installing the vertical stopper diaphragm; and S9, installing remaining horizontal diaphragms. The method for constructing a suspended diaphragm air delivery duct of a highway tunnel is convenient to draw materials, high in safety, easy to operate construction, and fast in construction progress, and the constructed air

delivery duct features a simple structure and light weight.



21: 2023/11413. 22: 2023/12/12. 43: 2024/06/14
51: G06T
71: ZHEJIANG UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: QIANG, Fangfang, ZHONG, Haiwei
54: IMAGE SUPER-RESOLUTION RECONSTRUCTION METHOD AND SYSTEM
00: -

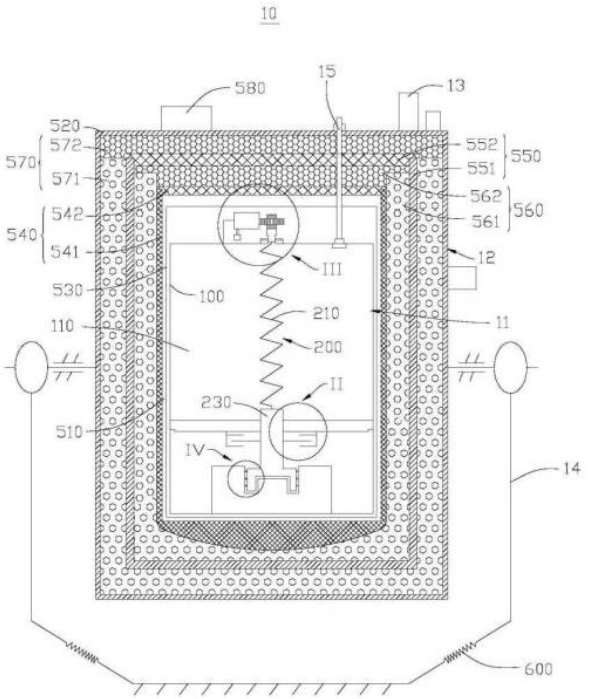
The present invention discloses an image super-resolution reconstruction method and system, and is applied to the technical field of image processing. The method includes the following steps: obtaining a set of sample images, downsampling the set of sample images to obtain a set of sample image pairs, and dividing the set of sample image pairs into a training set and a test set; constructing a GAN-based image super-resolution model; optimizing an objective function of the image super-resolution model according to EM divergence; training the super-resolution model through the training set; and after training, inputting an image to be super-resolution processed into the super-resolution model to obtain a super-resolution result. The present invention optimizes the objective function of the image super-resolution model according to the EM divergence, enabling stable training of a network.



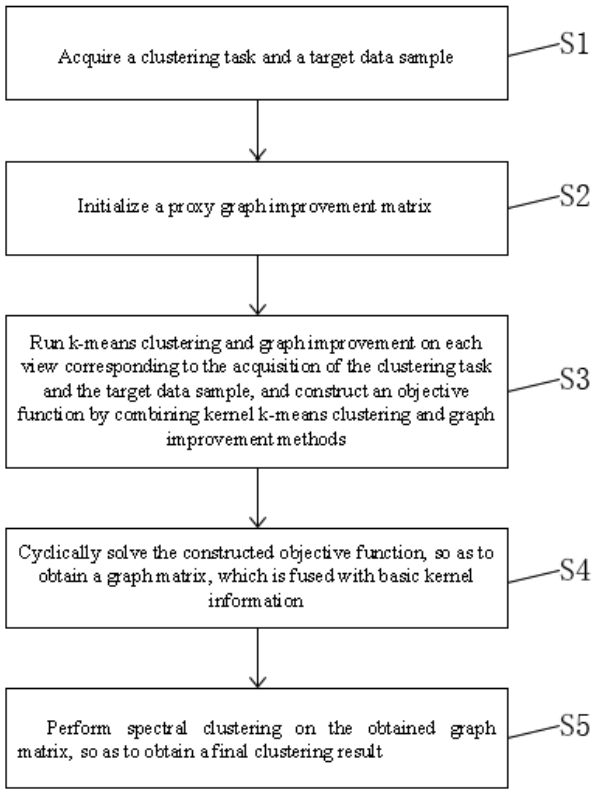
21: 2023/11414. 22: 2023/12/12. 43: 2024/06/14
51: G01V
71: INNOVATION ACADEMY FOR PRECISION MEASUREMENT SCIENCE AND TECHNOLOGY, CHINESE ACADEMY OF SCIENCES
72: WANG, Long, TIAN, Wei, WU, Pengfei, ZOU, Zhou, SUN, Heping
54: ELASTIC SYSTEM AND METAL ZERO-LENGTH SPRING RELATIVE GRAVIMETER
00: -

The present invention discloses an elastic system and a metal zero-length spring relative gravimeter, and relates to the technical field of geosciences. The elastic system includes a first housing, a pendulum adjustment system, a measurement assembly, and a damping feedback unit. The measurement assembly and the damping feedback unit are both disposed inside the first housing. The pendulum adjustment system is disposed at an end of the first housing. The damping feedback unit includes a feedback coil, a damping coil, and a magnet. The magnet is fixedly connected to an end of the first housing away from the pendulum adjustment system. The feedback coil and the damping coil are both wound around a weight, and the feedback coil and the damping coil are both located inside a groove. The feedback coil is used to introduce current to detect the position of the weight. The damping coil is used to introduce current to provide a force to the weight away from a

peripheral wall of the groove. The metal zero-length spring relative gravimeter adopts the elastic system above. The elastic system and the metal zero-length spring relative gravimeter, provided by the present invention, can meet the requirements for high-efficiency and long-term stable gravity acceleration measurement.



21: 2023/11513 22: 2023-12-14 43: 2024-04-18
51: G06K; G06N
71: ZHEJIANG NORMAL UNIVERSITY
72: ZHU, Xinzhong, XU, Huiying, LI, Miaomiao, LIANG, Weixuan, YIN, Jianping, ZHAO, Jianmin
33: CN 31: 202110607669.7 32: 2021-06-01
54: **LATER-FUSION MULTIPLE KERNEL CLUSTERING MACHINE LEARNING METHOD AND SYSTEM BASED ON PROXY GRAPH IMPROVEMENT**
57: A later-fusion multiple kernel clustering machine learning method and system based on proxy graph improvement. The involved later-fusion multiple kernel clustering machine learning method based on proxy graph improvement comprises the steps of: S1. acquiring a clustering task and a target data sample; S2. initializing a proxy graph improvement matrix; S3. running k-means clustering and graph improvement on each view corresponding to the acquisition of the clustering task and the target data sample, and constructing an objective function by combining kernel k-means clustering and graph improvement methods; S4. cyclically solving the objective function constructed in step S3 so as to obtain a graph matrix, which is fused with basic kernel information; and S5. performing spectral clustering on the obtained graph matrix, so as to obtain a final clustering result. By means of the method, an optimized basic division not only has information of a single kernel, but can also obtain global information by means of a proxy graph, which is more beneficial to fusing views, such that a learned proxy graph can better fuse information of each kernel matrix, thereby realizing an aim of improving a clustering effect.



21: 2024/00351. 22: 2024/01/10. 43: 2024/04/25
51: C12P
71: EVONIK OPERATIONS GMBH
72: LAUTENSCHÜTZ, Ludger, OßWALD, Steffen, PÖTTER, Markus, MÜLLER, Jakob
33: EP 31: 21179773.3 32: 2021-06-16
54: ENZYMATIC METHOD FOR THE PRODUCTION OF L-GLUFOSINATE P-ALKYL ESTERS
00: -
The present invention relates in a first aspect to an enzymatic method for the production of an L-glufosinate P-alkyl ester. This method is

characterized by a step (c) in which an L-glufosinate P-alkyl ester carbamoylate is reacted to give the corresponding L-glufosinate P-alkyl ester. This step (c) is catalyzed by a carbamoylase, preferably by an L-enantioselective carbamoylase. The L-glufosinate P-alkyl ester carbamoylate employed in step (c) may be obtained by reaction from the corresponding L-glufosinate hydantoin P-alkyl ester. This optional, antecedent step (b) is catalyzed by a hydantoinase, preferably an L-enantioselective hydantoinase. Even more preferred, the L-glufosinate hydantoin P-alkyl ester employed in step (b) may be obtained by reaction from the corresponding D-glufosinate hydantoin P-alkyl ester. This optional, antecedent step (a) is preferably catalyzed by a hydantoin racemase. In a second aspect, the present invention relates to an enzymatic method for enantioselective production of an L-glufosinate P-alkyl ester from a mixture MIIIA of L- and D-glufosinate P-alkyl ester hydantoins. In the method according to the second aspect of the invention, the mixture MIIIA is provided in a step (i-A) and employed in steps (ii) and (iii). Steps (ii) and (iii) correspond to steps (b) and (c) described above, respectively, wherein in step (c), an L-carbamoylase is employed. In an optional, preferred step (i-B) of the method according to the second aspect of the invention, corresponding to preferred step (a) described above, a hydantoin racemase is preferably used to convert at least a part of the D-glufosinate P-alkyl ester hydantoin in the mixture MIIIA into its corresponding L-enantiomer, giving a mixture MIIIB, which is then employed in steps (ii) and (iii). The L-glufosinate P-alkyl ester obtained in the methods according to the first or second aspect of the invention may be saponified to give L-glufosinate.

21: 2024/00813. 22: 2020/08/26. 43: 2024/03/26
51: A61B G01N
71: ZETEO TECH, INC.
72: CHEN, Dapeng, BRYDEN, Wayne, A, MCLOUGHLIN, Michael
33: US 31: 63/005,179 32: 2020-04-03
33: US 31: 63/010,029 32: 2020-04-14
33: US 31: 63/069,029 32: 2020-08-22
54: DIAGNOSIS OF RESPIRATORY DISEASES USING ANALYSIS OF EXHALED BREATH AND AEROSOLS
00: -

Disclosed are methods and devices for analyzing non-volatile organics in exhaled breath and other aerosols using various diagnostic tools that enable rapid, low cost point of care assays for several diseases including respiratory tract diseases such as COVID-19. The disclosed methods and systems selectively capture non-volatile organics in exhaled breath and other aerosols in a packed bed column. The non-volatile organics are eluted and samples are analysis using diagnostic devices including MALDI-TOFMS. The disclosed systems and methods provide for a diagnostic test result in less than about 20 minutes and provides for autonomous operation with minimal human intervention.

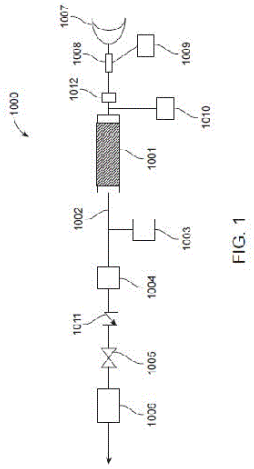


FIG. 1

21: 2024/01540. 22: 2024/02/21. 43: 2024/06/07
51: C21D; C23C
71: BEIJING RESEARCH INSTITUTE OF MECHANICAL & ELECTRICAL TECHNOLOGY CO., LTD. CAM
72: Peiwu CONG, Yueming XU, Chunhui DU, Wenlin LU, Xuyang CHEN, Longxiang HE, He WANG, Danruo XUE, Guangwen YANG, Lei FAN, Zhanwen FAN
33: CN 31: 202111058109.7 32: 2021-09-09
54: VACUUM CARBURIZING METHOD FOR OBTAINING DISPERSEDLY DISTRIBUTED FINE CARBIDES
00: -
The present disclosure discloses a temperature-varying vacuum carburizing method for obtaining dispersedly distributed fine carbides, comprising a Heating and Temperature Holding Phase, a Pulse Carburizing Phase, a Temperature-Varying Phase and a Quenching Phase. The Pulse Carburizing Phase comprising carburizing cycles and diffusion

cycles performed alternately multiple times at a carburizing temperature, wherein carburizing gas is filled into a carburizing chamber in a pulse manner in the carburizing cycles. The Temperature-Varying Phase comprising filling the carburizing chamber with cooling gas after the Pulse Carburizing Phase so that the surface layer of the workpiece is rapidly cooled to a temperature below 700 °C and holding the temperature for a period of time to allow carbides to be uniformly precipitated and spheroidized, and then vacuuming and immediately heating the carburizing chamber to a quenching temperature of 750 °C to 980 °C and holding the quenching temperature. The workpiece is quenched and cooled after complete austenitizing. This method maximizes the strength and toughness of the material, thereby improving the service performance of the workpiece.

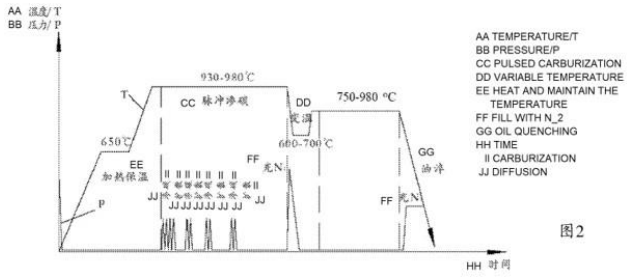


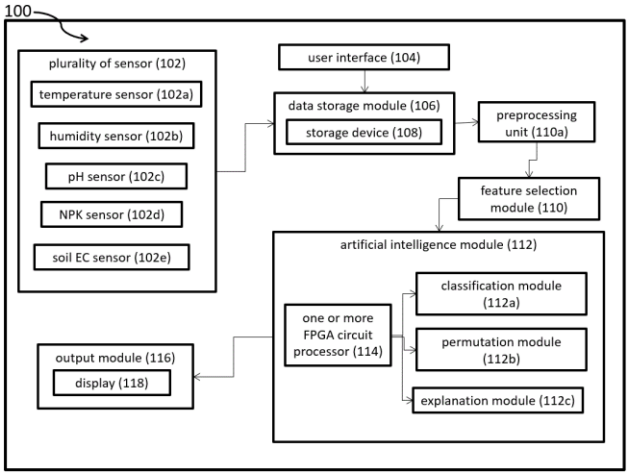
图2

21: 2024/01704. 22: 2024/02/28. 43: 2024/06/11
51: G06Q
71: Yaganteeswarudu Akkem, Saroj Kumar Biswas, Aruna Varanasi
72: Yaganteeswarudu Akkem, Saroj Kumar Biswas, Aruna Varanasi

54: AN ARTIFICIAL INTELLIGENCE BASED EXPLAINABLE CROP RECOMMENDATION SYSTEM

00: -

The present invention relates to an artificial intelligence based explainable crop recommendation system. The disclosed artificial intelligence-based explainable crop recommendation system integrates sensors, a user interface, and an artificial intelligence module with FPGA processors. Users input soil, weather, and field parameters through the interface, processed by a feature selection module. The AI module, employing an explainable boosting machine (EBM), permutation importance, and model-agnostic interpretability, executes transparent crop predictions. A data storage module facilitates information storage, and an output module with an LCD display presents visualized, explainable crop recommendations. The system covers a range of parameters, including environmental, soil, and geographical aspects, enhancing precision agriculture. The interconnected modules enable both local and global explanations, fostering user understanding and trust in the system.



21: 2024/01708. 22: 2024/02/28. 43: 2024/03/27
51: A61K; A61P; C07C; C07D
71: Escient Pharmaceuticals, Inc.
72: YEAGER, Adam, SELFRIDGE, Brandon, SAINZ, Marcos, MARTINBOROUGH, Esther, BOEHM, Marcus, HUANG, Liming
33: US 31: 62/825,741 32: 2019-03-28

54: MODULATORS OF MAS-RELATED G-PROTEIN RECEPTOR X4 AND RELATED PRODUCTS AND METHODS

00: -

Methods are provided for modulating MRGPR X4 generally, or for treating a MRGPR X4 dependent condition more specifically, by contacting the MRGPR X4 or administering to a subject in need thereof, respectively, an effective amount of a compound having the structure of Formula (I): (I) or a pharmaceutically acceptable isomer, racemate, hydrate, solvate, isotope, or salt thereof, wherein *n, x,* A, Q_1, Q_2, Z, R, R^1, R^2, R^3, R^4 and R^5 are as defined herein. Pharmaceutical compositions containing such compounds, as well as to compounds themselves, are also provided.

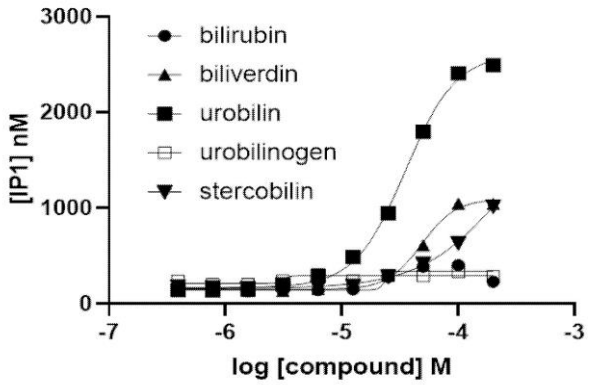
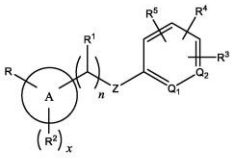


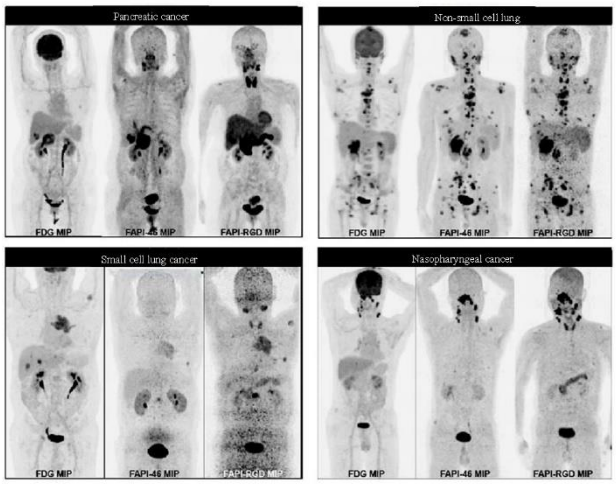
FIG. 1



(I)

21: 2024/02139. 22: 2024/03/18. 43: 2024/04/04
51: C08J; C08K; C08L
71: HANGZHOU KEJIA NEW MATERIALS CO., LTD.
72: JIAJUN FAN, DONG FANG, LIANGJUN SHU
33: CN 31: 202310293215.6 32: 2023-03-24
54: WATERPROOF AND FLAME-RETARDANT OPTICAL CABLE JACKET MATERIAL MASTERBATCH AND PREPARATION METHOD THEREOF
00: -
The present application relates to the technical field of cable materials, and in particular, relates to a waterproof and flame-retardant optical cable jacket material masterbatch and preparation method thereof. The raw materials include polyethylene resin, 87 fluorodecyl polyhedral oligomeric silsesquioxane powder, carbon black, polyether-ether-ketone composite and lubricant. AA preparation method includes: Step 1, preparing a polyether-ether-ketone composite; Step 2, mixing; and Step 3, granulating. The cable prepared in the present application can be applied in various places such as high-temperature and high humidity, which have the advantages of low-smoke, halogen-free, good waterproof performance, and flame-retardant performance, the cable jacket materials have high strength and are difficult to be damaged under natural condition, and have self-healing performance when it is damaged by external force, which can maintain good integrity and good waterproof and flame-retardant performance for a long time.

21: 2024/02726 22: 2024-04-09 43: 2024-04-18
51: A61K; C07K; A61P
71: YANTAI LANNACHENG BIOTECHNOLOGY CO., LTD.
72: CHEN, Xiaoyuan, XU, Pengfei, WU, Xiaoming, GUO, Zhide, YANG, Qingbao, WEN, Xuejun
33: CN 31: 202211201081.2 32: 2022-09-29
54: **DUAL-TARGETING COMPOUND AND PREPARATION METHOD AND APPLICATION THEREOF**
57: The present disclosure relates to the fields of nuclear medicine and molecular imaging, and specifically relates to a dual-targeting compound and a preparation method and application thereof. The dual-targeting compound has the following structure shown in Formula (I). The present disclosure also provides a dual-targeting compound capable of being labeled with a radionuclide, and the compound has the following structure shown in Formula (I-1) or Formula (I-2). The dual-targeting compound of the present disclosure has high affinity for an FAP target and an integrin avß3 target, can realize synergistic targeting of the FAP target and the integrin avß3 target in tumors, and has high uptake in tumors and long retention time in tumors. The present disclosure also provides a radionuclide labeled dual-targeting compound based on the dual-targeting compound, and a preparation method and application thereof in preparation of medicines for diagnosis or therapy of diseases characterized by overexpression of FAP and/or integrin avß3.



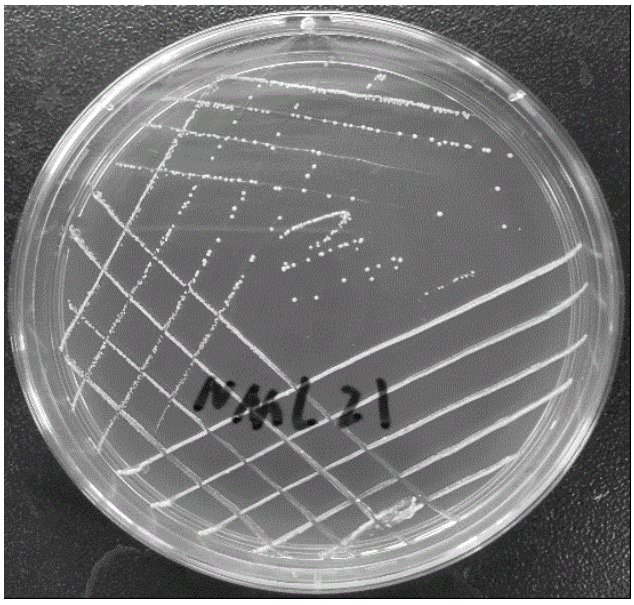
21: 2024/02767. 22: 2024/04/10. 43: 2024/04/18
51: C12N

71: Gansu Agricultural University
72: Wen Pengcheng, Zhang Weibing, Shi Chengrui, Yang Xiaoli, Guo Huiyuan, Wang Pengjie, Zhang Hao, Wu Shifang, Chen Xuhui, Wang Ying
33: CN 31: 202310385975.X 32: 2023-04-12

54: LACTOBACILLUS PLANTARUM AND ITS APPLICATION

00: -

The present disclosure relates to the field of bioengineering, in particular to a Lactobacillus plantarum and its application. The Lactobacillus plantarum NML21 is deposited with the China General Microbiological Culture Collection Center, the accession number is CGMCC No.26508. The strain grows well in low-pH and high-concentration bile salt environments, and has more than 80% of the survival rate under simulated artificial stomach and intestinal fluid environments for 3 h, and good tolerance.

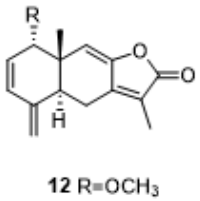


21: 2024/02824. 22: 2024/04/11. 43: 2024/04/18
51: C07D
71: North China University of Science and Technology
72: Zhuang Pengyu, Sun Liangdan, Liu Chunyan, Wang Xiaoxia
33: CN 31: 202211682724.X 32: 2022-12-27

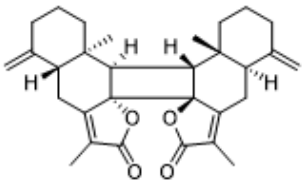
54: PREPARATION METHOD AND APPLICATION OF SESQUITERPENES AND THEIR DIMERS

00: -

The invention discloses sesquiterpene and dimer compounds extracted from the Hubei Chloranthus as shown below and their application in the preparation of anti-inflammatory drugs and preparation method thereof. Notably, compounds 12 and 18 showed considerable anti-inflammatory activities involving reduction in nitric oxide (NO) production without cytotoxicity. The mRNA expression of Cyclooxygenase 2 (COX-2), an immediate early response factor in inflammation, was considerably inhibited bytreatments with compounds 12 and 18, The invention provides a new method for the production and preparation of a class of novel sesquiterpene and dimer compounds with anti-inflammatory activity, and provides an ideal candidate compound for the development of efficient anti-inflammatory drugs.



12 R=OCH_3



18

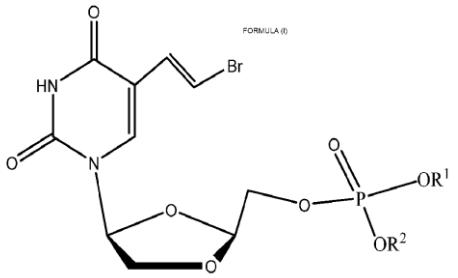
21: 2024/03020. 22: 2024/04/18. 43: 2024/05/21
51: A61K; C07F; A61P
71: UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC., ANTEROGEN CO. LTD
72: SINGH, Uma Sharan, CHU, Chung K.
33: US 31: 63/273,403 32: 2021-10-29

54: PRODRUGS OF L-BHDU AND METHODS OF TREATING VIRAL INFECTIONS

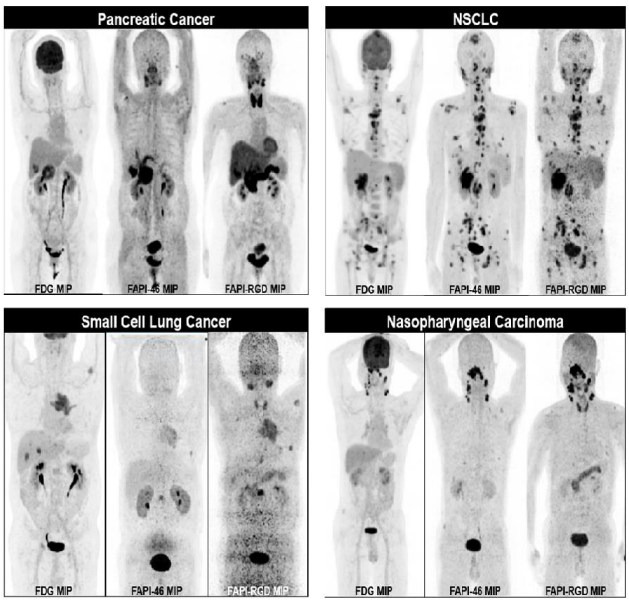
00: -

In an embodiment, the invention is directed to prodrug compounds of L-BHDU according to the chemical structure I: Formula (1) Where R^1 is a -(CH_2)n-O-R^{la} group or a -(CH_2)j-O-C(O)O_k-R^{2a} group; R^2 is H, a -(CH_2)n-O-R^{la} group or a -(CH_2)j-O-C(O)O_k- R^{2a} group; R^{la} is independently a C_6-C_{30} alkyl group, often a C_{12}-C_{22} alkyl group, often a C_{14}-C_{20} alkyl group or a C_{16}-C_{18} alkyl group, often a C_{16} or Cis alkyl group; R^{2a} is independently a C_1-C_{12} alkyl group, often a C_2-C_6 alkyl group, a C_3-C_4 alkyl group, an isopropyl, t-butyl or sec-butyl group, or an isopropyl or t-butyl group; Each j is independently 1-6, 1-3, often 1 or 2; Each k is 0 or 1; Each n is independently 1-6, 1-4, 2-4 or 2 or 3; or A pharmaceutically acceptable salt, solute or polymorph thereof Additional embodiments are directed to pharmaceutical compositions based upon the disclosed chemical compounds and methods of

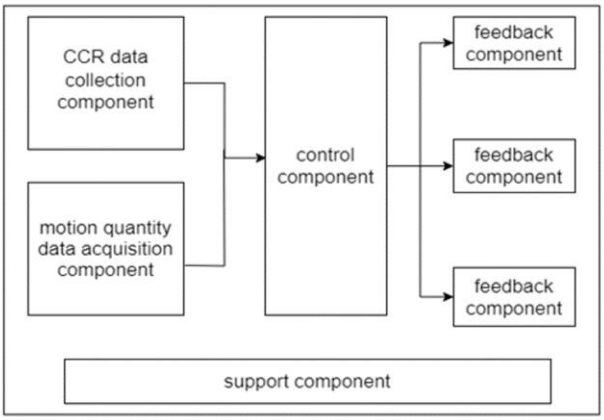
treating or reducing the likelihood of VZV, HSV-1 or HSV-2 infections. Methods of synthesizing compounds according to the present invention represent further embodiments of the invention.



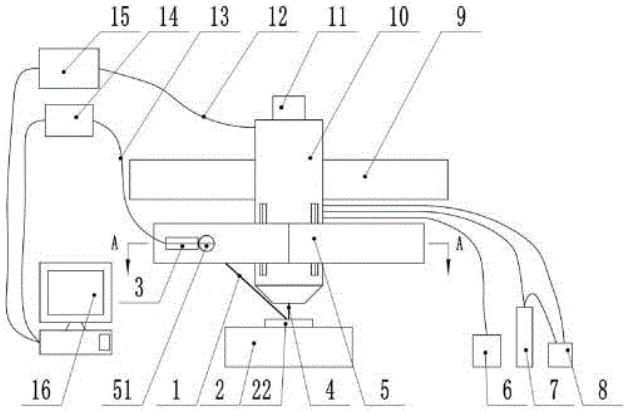
21: 2024/03256. 22: 2024/04/26. 43: 2024/05/21
51: C07K; A61P
71: YANTAI LANNACHENG BIOTECHNOLOGY CO., LTD.
72: CHEN, Xiaoyuan, XU, Pengfei, WU, Xiaoming, GUO, Zhide, YANG, Qingbao, WEN, Xuejun
33: CN 31: 202211203390.3 32: 2022-09-29
54: DUAL-TARGETING COMPOUND FOR FIBROBLAST ACTIVATION PROTEIN (FAP) AND INTEGRIN AVB3, PREPARATION METHOD THEREFOR AND USE THEREOF
00: -
The present invention relates to a dual-targeting compound capable of targeting fibroblast activation protein (FAP) and integrin avß3. The targeting compound of the present invention and a radionuclide marker thereof can synergistically target an FAP target and an integrin avß3 target in tumors, such that the number and utilization efficiency of effective receptors in tumors can be improved. The present invention further provides a radionuclide marker based on the targeting compound, a preparation method therefor and use thereof in diagnosis or treatment of diseases characterized by overexpression of fibroblast activation protein (FAP) and/or integrin avß3.



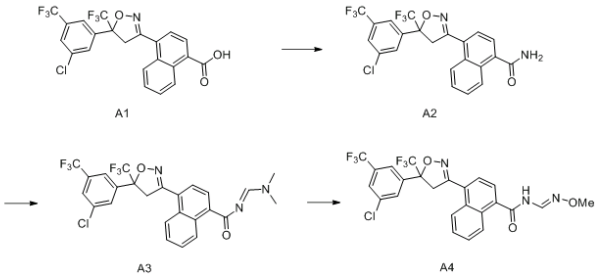
21: 2024/03630. 22: 2024/05/10. 43: 2024/05/21
51: A61H
71: WUHAN KEDE MEDICAL INSTRUMENT CO., LTD.
72: SONG, Jiuhong, LIU, Xinting, ZHANG, Guosheng
33: CN 31: 202111313071.3 32: 2021-11-08
54: KOAPT-THERAPY-BASED TREATMENT AND REHABILITATION DEVICE FOR DEGENERATIVE KNEE JOINT DISEASE
00: -
This invention discloses a device for treating and rehabilitating knee osteoarthritis. This invention standardizes the user's execution of the movement posture based on knee osteoarthritis pendulum therapy (KOAPT), helps patients overcome physical pain and psychological non-compliance, fundamentally solves the pain of KOA patients, and brings good news to knee joint degenerative disease patients around the world.



21: 2024/03796. 22: 2024/05/16. 43: 2024/05/22
51: C23C
71: China University of Mining and Technology
72: Haifeng Yang, Mingtian Shi, Congcong Zhu, Hao Liu, Jingbin Hao, Xinhua Liu
33: CN 31: 202210183771.3 32: 2022-02-28
54: A PULSED LASER IN SITU IMPACT AUXILIARY LASER CLADDING DEVICE AND THE APPLICATION METHOD THEREOF
00: -
The invention discloses a pulsed laser in situ impact auxiliary laser cladding device and the application method thereof, comprising an electronic computer, which controls a laser cladding manufacturing module and a pulsed laser dimming module; The pulsed laser dimming module comprises a pulsed laser and a dimming frame. The outer wall of the dimming frame is provided with a fiber connection inlet. The pulsed laser is connected with a fiber connection inlet through a pulsed laser fiber. A second reflector is provided on the other side where the first reflector is located. Through the setting of the dimming frame, the technical problem that pulsed laser cannot follow the processing action of continuous laser behind the molten pool under complex trajectory is solved.



21: 2024/04192. 22: 2024/05/28. 43: 2024/05/31
51: C07D
71: Shandong Chengchuang Blue Sea Pharmaceutical Technology Co., Ltd., Lv Zhitao
72: Lv Zhitao, Jiang Zhen, Nie Ting, Lu Xingmin, Liu Zhongjie, Yao Songzhi, Cao Yan
33: CN 31: 202310070589.1 32: 2023-01-16
54: NAPHTHALENE ISOXAZOLINE COMPOUND AND APPLICATION THEREOF
00: -
Disclosed are a naphthalene isoxazoline compound and an application thereof. The compound has the name of 4-(5-(3-chloro-5-(trifluoromethyl)phenyl)-5-(trifluoromethyl)-4,5-dihydroisoxazol-3-yl)-N-((methoxyimino)methyl)-1-naphthalenecarboxamide, which is a new pesticide classified into the class of γ-amino butyric acid (GABA) gated chloride ion channel allosteric modulator, and can be applied to prevent and control a variety of agricultural pests and/or pest mites. Compared with the class of agricultural pesticides commercially available, it is better in pest-killing effect and wider in pest-killing scope. In addition, this new compound is easy and safe in operating the synthesis process, and has great potential for application.



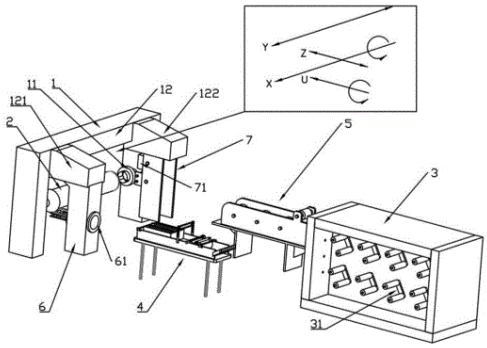
21: 2024/04215. 22: 2024/05/30. 43: 2024/06/03
51: B29C
71: SINOMA SCIENCE AND TECHNOLOGY (SUZHOU) CO., LTD, CHINA NATIONAL BUILDING MATERIAL GROUP CO., LTD.

72: JI, Zengxiang, CHEN, Chunlu, YUAN, Zhuowei, MA, Chunhua
33: CN 31: 202111440844.4 32: 2021-11-30

54: INTEGRATED FILAMENT WINDING APPARATUS

00: -

Disclosed is an integrated filament winding apparatus, comprising a gantry frame, a creel, a dry and wet winding trolley, a thermoplastic winding trolley, a dry and wet winding device, and a thermoplastic winding device. Carriers corresponding to various types of yarn balls and corresponding tension adaptation units are provided on different sides of the creel. With the gantry frame cooperating with the trolleys and winding devices corresponding to different winding processes, the integrated filament winding apparatus can switch to required winding operation. The integrated filament winding apparatus achieves organic combination of various functions including wet winding, dry winding and thermoplastic winding and real-time monitoring of the tension, pressure and temperature at different positions, so that the utilization rate of the apparatus is improved, and the occupied space and the investment cost of the apparatus are reduced.

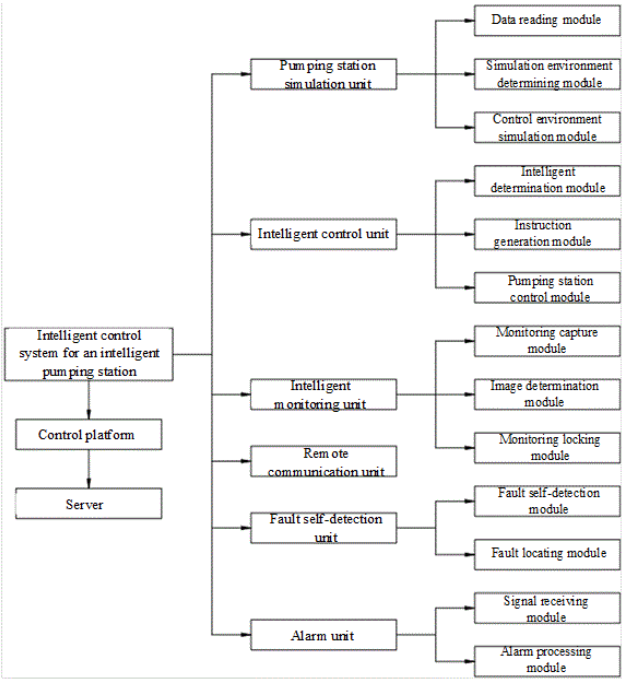


21: 2024/04375. 22: 2024/06/05. 43: 2024/06/11
51: G05B
71: SINOSO Science and Technology Inc
72: YAN Aizhong, SONG Chengfa
33: CN 31: 202310695344.8 32: 2023-06-13

54: INTELLIGENT CONTROL SYSTEM FOR INTELLIGENT PUMPING STATION AND CONTROL METHOD THEREOF

00: -

The present disclosure provides an intelligent control system and method for an intelligent pumping station, and belongs to the technical field of pumping stations. In order to solve the problem that the pumping station system needs to be debugged and requires manual monitoring and troubleshooting, the pumping station simulation unit retrieves the data file of the pumping station and enters the pipeline and water pump connection structure of the pumping station as a whole, so that an adaptive recognition structure can be achieved for different pumping station system structures, which is suitable for different pumping station systems, does not require manual deployment, is highly convenient, and improves the accuracy of intelligent management and control. When an image in a very characteristic set appears in the monitoring video, the intelligent monitoring unit marks and notifies it, so that there is no need for manual real-time manual observation of the monitoring video. The fault self-detection unit and the alarm unit can perform fault self-detection, troubleshooting and alarm reminders on the pumping station, and can quickly self-detect, discover and locate the fault point of the pumping station, without the need for manual troubleshooting and locking of the fault point, thereby improving the efficiency of pumping station fault maintenance and repair.



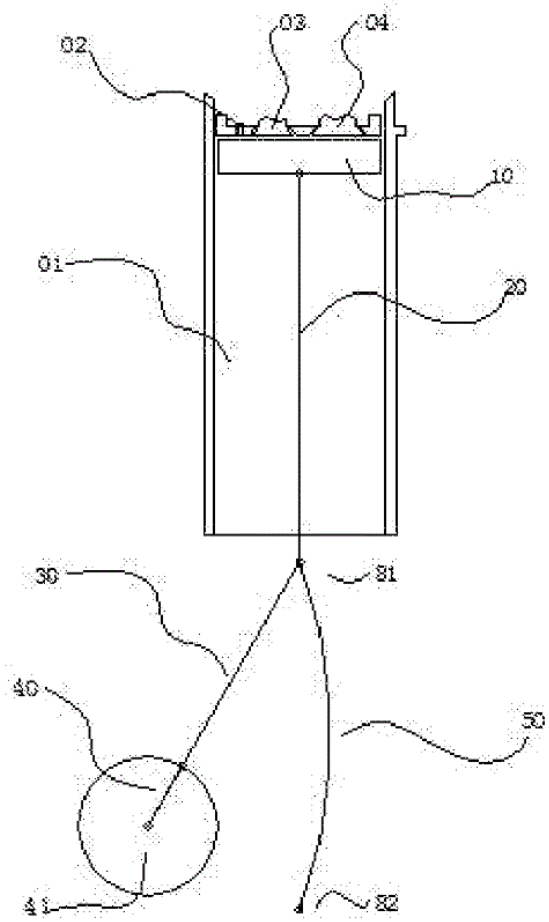
21: 2024/04413. 22: 2024/06/06. 43: 2024/06/11
51: F02B; F02D
71: SICHUAN BEIXIN HONGNENG TECHNOLOGY RESEARCH INSTITUTE
72: Xin SUN

33: CN 31: 202111624964.X 32: 2021-12-28
33: CN 31: 202210307628.0 32: 2022-03-27

54: DUAL-CONNECTION CRANK-PISTON MECHANISM

00: -

The present invention relates to the technical field of power plants, and in particular to a dual-connection crank-piston mechanism comprising a cylinder body, a piston, a crankshaft, and a rack. The piston and the crankshaft are hingedly connected to two connecting rods therebetween. Hinged ends of the inner connecting rod and the outer connecting rod are both hingedly connected to a slider or a swing arm. The slider is slidably connected to a guide rail. The swing arm is hingedly connected to the rack. The other end of the outer connecting rod is hingedly connected to the crankshaft handle. The stroke of the piston is greater than twice the length of the crankshaft handle. The upward running speed and the downward running speed of the piston have a 1.4- to 3-fold difference. The use of the two serially arranged connecting rods reduces the lateral force borne by the piston and prolongs the service life of the engine while realizing different speeds and times between upward and downward runs. The working angle of the crankshaft reaches 210-270 degrees, thus providing a higher power efficiency and smoother running for the mechanism.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

RECTIFICATION OF THE PATENT REGISTER IN TERMS OF SECTION 52 OF THE PATENTS ACT 57 OF 1978

Notice is hereby given that the Registrar has ordered rectification of the patent register, in respect of South African Patent Application No. **2017/04777**, in the name of **MYOKARDIA, INC**, by deleting the following entries**:**

(a) 02/03/2023 - Application accepted on 02/03/2023

(b) 26/07/2023 – Patent granted on 26/07/2023.

(c) 26/07/2023 – Patent advertised on 26/07/2023.

(d) Acceptance withdrawn on 20/09/2019.

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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 2024/05/27 -

A2024/00493 - Paul Hugo Class 06. BETHANY COUNTER SERIES

A2024/00494 - Guesbeogo Traore Class 32. NOT RAW SPORTS

A2024/00495 - Versuni Holding B.V. Class 07. HAND-HELD STEAMER

A2024/00496 - PLASTPACK DEFENCE APS Class 9. CONTAINER

. - APPLIED ON 2024/05/28 -

A2024/00497 - FOURIE, Marthinus Christiaan Johannes Class 25. A SET OF ARTICLES FORMING A BUILDING UNIT

A2024/00502 - Chemo Research, S.L. Class 24. APPLICATORS

A2024/00501 - PEPSICO, INC. Class 9. BOTTLE

A2024/00498 - PEPSICO, INC. Class 9. BOTTLE

A2024/00499 - PEPSICO, INC. Class 9. BOTTLE

A2024/00500 - PEPSICO, INC. Class 9. BOTTLE

. - APPLIED ON 2024/05/30 -

F2024/00508 - SUPERCART SOUTH AFRICA (PTY) LTD Class 6. SHELF SLAT

A2024/00504 - KRUGER, Jaco Class 21. RIDE-ON VEHICLE

A2024/00505 - SUPERCART SOUTH AFRICA (PTY) LTD Class 6. SHELF SLAT

A2024/00503 - BYD COMPANY LIMITED Class 12. AUTOMOBILE

A2024/00506 - SUPERCART SOUTH AFRICA (PTY) LTD Class 6. SHELF SLAT

F2024/00507 - SUPERCART SOUTH AFRICA (PTY) LTD Class 6. SHELF SLAT

. - APPLIED ON 2024/06/03 -

A2024/00509 - Janssen Biotech, Inc. Class 24. DRUG DELIVERY SYSTEMS

. - APPLIED ON 2024/06/04 -

F2024/00513 - BUSHEL PLUS LTD. Class 15. GRATE SEGMENT FOR AGRICULTURAL COMBINE HARVESTER CONCAVES

A2024/00517 - LE CREUSET GROUP AG Class 07. GRILL PAN

A2024/00511 - BUSHEL PLUS LTD. Class 15. GRATE SEGMENT FOR AGRICULTURAL COMBINE HARVESTER CONCAVES

A2024/00514 - EVYAP HİJYENİK ÜRÜNLER SANAYİ VE TİCARET ANONİM ŞİRKETİ Class 2. ABSORBENT CORE OF BABY DIAPER

A2024/00520 - HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. Class 13. CHARGING PILE

A2024/00518 - LE CREUSET GROUP AG Class 07. PAN

A2024/00510 - BUSHEL PLUS LTD. Class 15. GRATE SEGMENT FOR AGRICULTURAL COMBINE HARVESTER CONCAVES

A2024/00525 - HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. Class 13. CHARGING PILE

F2024/00512 - BUSHEL PLUS LTD. Class 15. GRATE SEGMENT FOR AGRICULTURAL COMBINE HARVESTER CONCAVES

A2024/00523 - HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. Class 13. CHARGING PILE

A2024/00515 - LE CREUSET GROUP AG Class 07. PIZZA PAN

A2024/00516 - Chery Automobile Co., Ltd. Class 12. AUTOMOBILES

A2024/00519 - HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. Class 13. PHOTOVOLTAIC INVERTER

A2024/00521 - HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. Class 13. ONE-PIECE ENERGY STORAGE DEVICE

F2024/00522 - RRR Optoelectronic Co., Ltd Class 13. HEAT SINK FOR FLOODLIGHT

A2024/00524 - HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. Class 13. CHARGING PILE

. - APPLIED ON 2024/06/05 -

A2024/00528 - EVYAP HİJYENİK ÜRÜNLER SANAYİ VE TİCARET ANONİM ŞİRKETİ Class 2. ABSORBENT CORE OF BABY DIAPER

A2024/00526 - The Active Business Trust Class 09. BOTTLE 560 G

A2024/00527 - EVYAP HİJYENİK ÜRÜNLER SANAYİ VE TİCARET ANONİM ŞİRKETİ Class 2. ABSORBENT CORE OF BABY DIAPER

A2024/00529 - JJ Govender Class 13. VERTICAL MICROGRIDS

F2024/00530 - JJ Govender Class 13. THE VERTICAL MICROGRIDS

. - APPLIED ON 2024/06/06 -

A2024/00532 - Wang Chong Class 14. TOUCH SCREENS

A2024/00533 - HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. Class 13. PHOTOVOLTAIC INVERTER

A2024/00531 - Wang Chong Class 14. TOUCH SCREENS

. - APPLIED ON 2024/06/07 -

A2024/00534 - Nathi Sengca Class 15. SENGCA ENGINE

. - APPLIED ON 2024/06/10 -

A2024/00536 - WACHER, BRUCE PETER Class 06. SUPPORT STRUCTURE

A2024/00535 - EOHC COMERCIO E INDUSTRIA LTDA Class 28. BOTTLE

A2024/00538 - MOUNTAIN FALLS ESTATE (PTY) LTD. Class 9. CONTAINER

F2024/00539 - MOUNTAIN FALLS ESTATE (PTY) LTD. Class 9. CAP FOR A BOTTLE

A2024/00537 - MOUNTAIN FALLS ESTATE (PTY) LTD. Class 9. SET OF CONTAINERS

. - APPLIED ON 2024/06/11 -

F2024/00542 - CONTROL CHEMICALS (PTY) LTD Class 9. FLOATING CHEMICAL DISPENSING CONTAINERS

A2024/00541 - CONTROL CHEMICALS (PTY) LTD Class 9. FLOATING CHEMICAL DISPENSING CONTAINERS

A2024/00540 - CONTROL CHEMICALS (PTY) LTD Class 9. FLOATING CHEMICAL DISPENSING CONTAINERS

F2024/00543 - CONTROL CHEMICALS (PTY) LTD Class 9. FLOATING CHEMICAL DISPENSING CONTAINERS

F2024/00544 - CONTROL CHEMICALS (PTY) LTD Class 9. FLOATING CHEMICAL DISPENSING CONTAINERS

. - APPLIED ON 2024/06/12 -

F2024/00573 - Hendrik Stander Engelbrecht Class 12. REAR DOOR MOUNT

A2024/00545 - SASOL OIL (PTY) LTD Class 9. BOTTLES

A2024/00546 - SASOL OIL (PTY) LTD Class 9. BOTTLES

. - APPLIED ON 2024/06/13 -

F2024/00552 - PROTHERO, Gareth Clive, VAN DIEMAN, Eric Class 23. MOUNT

A2024/00547 - JAN VAN TILL HOLDINGS Class 13. SHOOTING STICK

A2024/00557 - GEIDEA FOR TECHNOLOGY CO. Class 14. A HANDHELD POINT OF SALE DEVICE

A2024/00562 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

A2024/00549 - JAN VAN TILL HOLDINGS Class 28. SHOOTING STICK

F2024/00548 - JAN VAN TILL HOLDINGS Class 13. SHOOTING STICK

F2024/00551 - PROTHERO, Gareth Clive, VAN DIEMAN, Eric Class 8. MOUNT

F2024/00555 - PROTHERO, Gareth Clive, VAN DIEMAN, Eric Class 8. EDGE STRIP

A2024/00559 - Jemella Group Limited Class 28. HAIR IRONS

A2024/00560 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

A2024/00561 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

A2024/00567 - Jemella Group Limited Class 28. HAIR IRONS

A2024/00568 - TEQAL (PTY) LTD Class 09. A LID

A2024/00569 - GREAT WALL MOTOR COMPANY LIMITED Class 12. AUTOMOBILE

F2024/00550 - JAN VAN TILL HOLDINGS Class 28. SHOOTING STICK

A2024/00558 - GEIDEA FOR TECHNOLOGY CO. Class 14. A COUNTERTOP POINT OF SALE DEVICE

F2024/00553 - PROTHERO, Gareth Clive, VAN DIEMAN, Eric Class 8. HOOD

A2024/00563 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

A2024/00564 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

A2024/00565 - Jemella Group Limited Class 28. HAIR IRONS

A2024/00566 - Jemella Group Limited Class 28. HAIR IRONS

A2024/00570 - HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. Class 13. PHOTOVOLTAIC OPTIMIZER

A2024/00571 - HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. Class 13. ONE-PIECE ENERGY STORAGE DEVICE

A2024/00572 - HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. Class 13. ONE-PIECE ENERGY STORAGE DEVICE

F2024/00554 - PROTHERO, Gareth Clive, VAN DIEMAN, Eric Class 23. HOOD

F2024/00556 - PROTHERO, Gareth Clive, VAN DIEMAN, Eric Class 23. EDGE STRIP

. - APPLIED ON 2024/06/14 -

A2024/00574 - CHUTONG TECHNOLOGY (SHANGHAI) CO., LTD. Class 14. DISPLAY SCREEN WITH THREE-DIMENSIONAL OPERATING INTERFACE

A2024/00578 - TIMAC AGRO INTERNATIONAL Class 09. PACKAGING BAG

F2024/00576 - BJ GERBER Class 15. 24" STEEL PIVOT RIM

A2024/00575 - Abre van Wyk Class 32. FUNWIJK'S LOGO

A2024/00577 - TIMAC AGRO INTERNATIONAL Class 09. PACKAGING BAG

. - APPLIED ON 2024/06/18 -

A2024/00581 - Runweight Pty Ltd Class 12. AIRCRAFT WEIGHING DEVICES

F2024/00579 - Peter Jooste Class 08. DRILL DUST CUP

F2024/00580 - SCHRÉDER S.A. Class 26. SOLAR LUMINAIRE

. - APPLIED ON 2024/06/19 -

A2024/00584 - ONEWORLD INVESTMENTS (PTY) LTD Class 09. A CONTAINER

F2024/00583 - KVM Assets (Pty) Ltd Class 13. A SOLAR END BRACKET

F2024/00592 - BESTER, Alida Class 09. CONTAINER

F2024/00585 - PRECISION PLANTING LLC Class 15. PLANTER ROW UNIT FRAME

A2024/00586 - PRECISION PLANTING LLC Class 15. PLANTER ROW UNIT FRAME

A2024/00591 - BESTER, Alida Class 09. CONTAINER

A2024/00582 - KVM Assets (Pty) Ltd Class 13. A SOLAR END BRACKET

A2024/00587 - ROLDAN S.A. Class 14. REMOTE CONTROL

F2024/00590 - BESTER, Alida Class 09. CONTAINER

A2024/00589 - BESTER, Alida Class 09. CONTAINER

A2024/00588 - ROLDAN S.A. Class 12. GANTRY CRANE

. - APPLIED ON 2024/06/20 -

F2024/00594 - Polyoak Packaging (Pty) Ltd Class 09. A BOTTLE

A2024/00593 - Polyoak Packaging (Pty) Ltd Class 09. A BOTTLE

F2024/00599 - OESDRAG (PTY) LTD Class 9. CONTAINER

F2024/00598 - OESDRAG (PTY) LTD Class 9. WEARABLE HARVESTING AID

A2024/00597 - MADAD PTY LTD Class 06. MATTRESS WIRE COIL

A2024/00607 - FERRARI S.P.A. Class 21. TOY CAR

A2024/00596 - AJAX SYSTEMS CYPRUS HOLDINGS LTD Class 3. CASING FOR SECURITY DEVICES

A2024/00595 - AJAX SYSTEMS CYPRUS HOLDINGS LTD Class 14. NETWORK VIDEO RECORDERS

A2024/00606 - FERRARI S.P.A. Class 21. TOY CAR

A2024/00605 - FERRARI S.P.A. Class 21. TOY CAR

A2024/00602 - FERRARI S.P.A. Class 12. CAR

A2024/00601 - MADAD PTY LTD Class 06. MATTRESS WIRE COIL

F2024/00600 - MADAD PTY LTD Class 08. MATTRESS WIRE COIL

A2024/00603 - FERRARI S.P.A. Class 12. CAR

F2024/00608 - MADAD PTY LTD Class 08. MATTRESS WIRE COIL

A2024/00604 - FERRARI S.P.A. Class 12. CAR

. - APPLIED ON 2024/06/21 -

A2024/00609 - FOSHAN LYTRAN ELECTRICAL EQUIPMENT CO., LTD. Class 13. PHOTOVOLTAIC INVERTER

APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT

No records available

APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION

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 II. AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY BE INSPECTED AND MAY BE OPPOSED

PART II

Design No: F2023/00739

Applicant: ROUX, Petrus Johannes Janse van Rensburg

Class: 22

Article to which the Design is to be applied. CENTRING DEVICES

Date of lodgment: 06 July 2023

Registrar of Designs

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page.

The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgment. **(23)** release date (if applicable). **(DR)** 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 (DR) is either Date of lodgment (22) or Date of convention of application (32) whichever is the earlier.

Registrar of Designs

21: A2020/01081 22: 2020-08-07 23:
43: 2020-02-10
52: Class 2 24: Part A
71: Canterbury Limited
33: EM(GB) 31: 007687520-0001 32: 2020-02-10
54: GARMENTS
57: The design is for a garment and in particular for a sports shirt having a trimmed crew neck with a collar extending from a front neckline and flaring outwardly from the neckline. A pair of elongate contouring strips extend downwardly from a trim on the back panel of the shirt, the trim continuing to the front panel thereof. At the rear panel, a pair of narrow lines curve inwardly from a waist towards a bottom of the shirt defining two side panels opposite each other. A double strip extends partially along a bottom edge. Each sleeve is trimmed in the front and includes the face of a lion with triangular shards expanding outwardly from the lion's face.

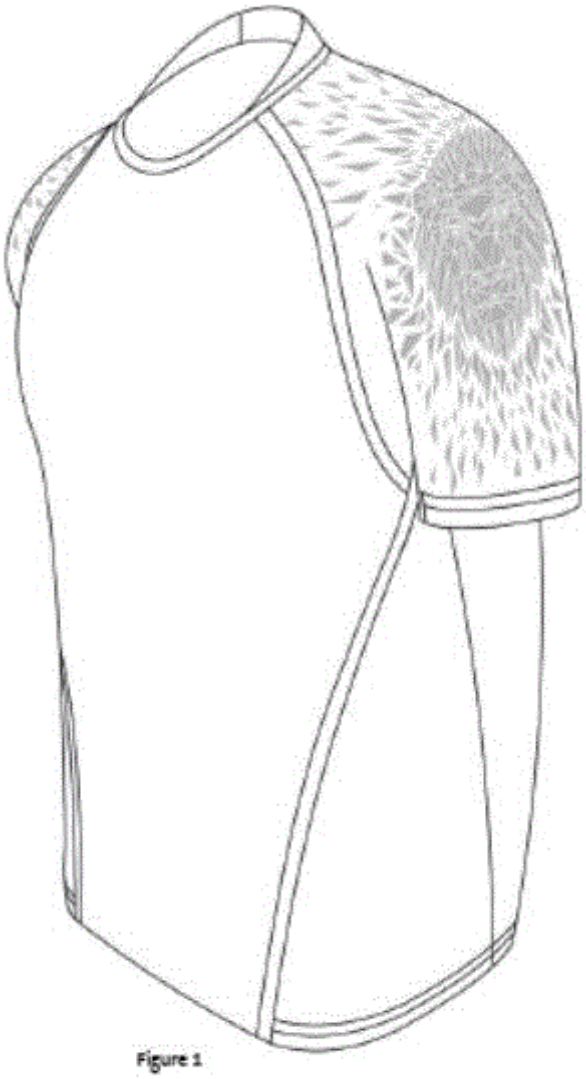


Figure 1

Three-dimensional view

21: A2020/01082 22: 2020-08-07 23:
43: 2020-02-10
52: Class 2 24: Part A
71: Canterbury Limited
33: EM(GB) 31: 007687520-0002 32: 2020-02-10
54: GARMENTS
57: The design is for a garment and in particular for a sports shirt having a trimmed crew neck. A collar extends from a front neckline and flares outwardly from the neckline.

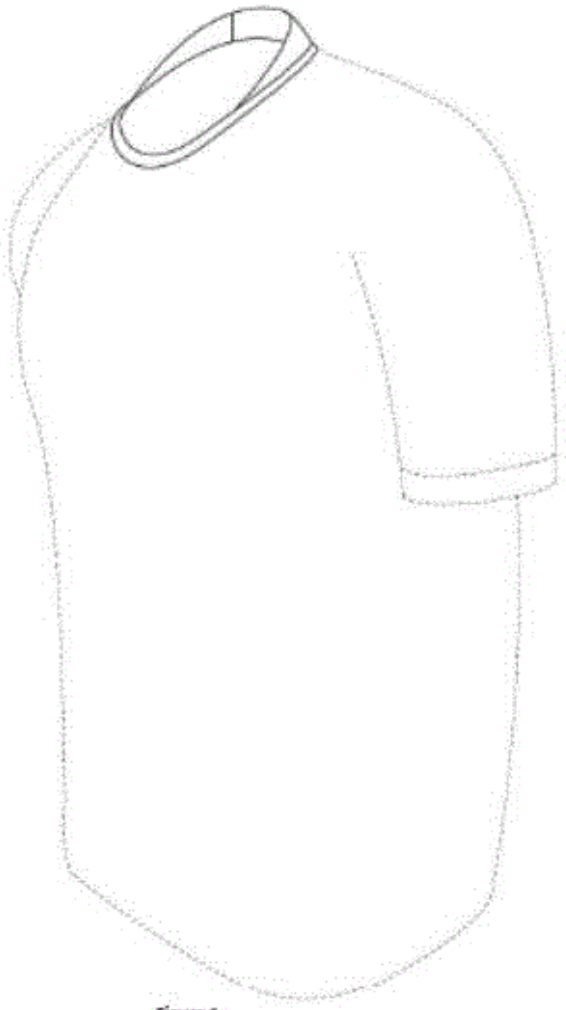


Figure 1

Three-dimensional view

21: A2020/01193 22: 2020-09-02 23:
43: 2020-03-03
52: Class 9 24: Part A
71: Société des Produits Nestlé S.A.
33: CH 31: 145171 32: 2020-03-03
54: ORNAMENTATION FOR PACKAGING
57: The design is for ornamentation for packaging. The ornamentation comprises a circular formation overlapping an arrangement of concentric annular coffee bean symbols. A representation of a coffee bean is located on an inside of the arrangement.

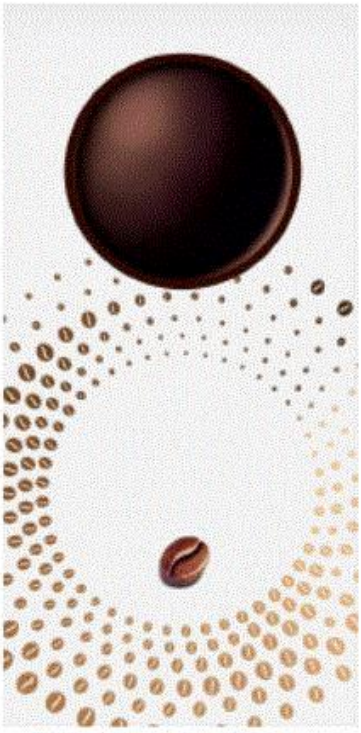
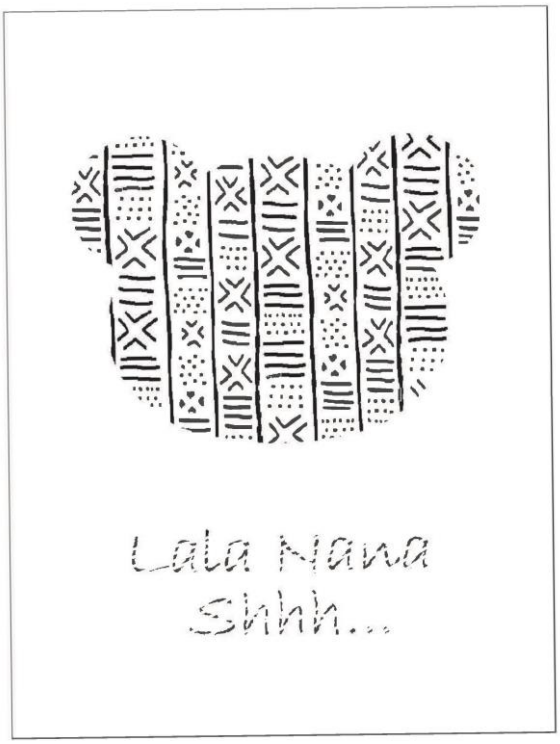


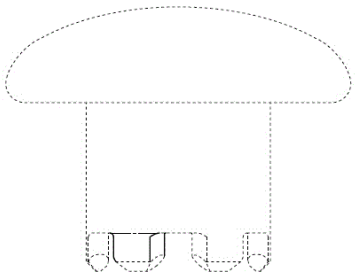
Figure 1

Face-on view

21: A2022/01666 22: 2022-12-19 23:
43: 2024-03-11
52: Class 06 24: Part A
71: ThulaSizwe Clothing (Pty) Ltd
54: ARTISTIC MOTIF
57: The features of the design for which protection is claimed include the configuration and/or pattern of the ARTISTIC MOTIF substantially as illustrated in the accompanying representation. The text below the image may contain different words in different fonts and in different languages, in other words, the specific font and specific words as depicted in the representation are disclaimed.

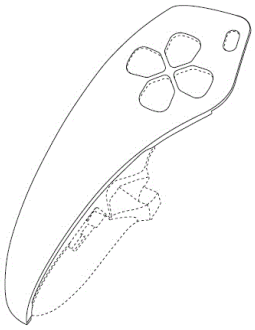


21: A2023/00109 22: 2023-01-25 23:
43: 2024-04-16
52: Class 14 24: Part A
71: SONY INTERACTIVE ENTERTAINMENT INC.
33: JP 31: 2022-016801 32: 2022-08-05
54: THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE
57: The design is applied to a thumbstick of a controller for an electronic device and is shown in front view in the drawing showing the overall appearance thereof.



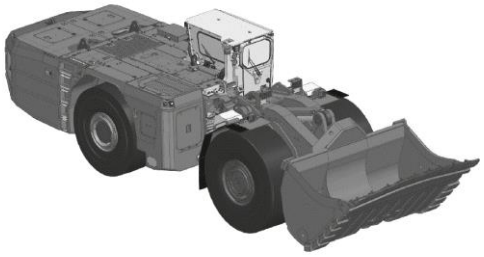
21: A2023/00112 22: 2023-01-25 23:
43: 2024-04-16
52: Class 14 24: Part A
71: SONY INTERACTIVE ENTERTAINMENT INC.
33: CN 31: 202230508377.3 32: 2022-08-05
54: HOUSING OF CONTROLLER

57: The design is applied to a housing of a controller and is shown in front perspective view in the drawing showing the overall appearance thereof.



21: A2023/00318 22: 2023-03-01 23:
43: 2024-04-16
52: Class 14 24: Part A
71: AJAX SYSTEMS CYPRUS HOLDINGS LTD
33: WO 31: WIPO128530 32: 2023-02-09
54: KEYPAD FOR ALARMS
57: Protection is claimed for the aesthetic features and/or the configuration of a keypad for an alarm.

21: A2023/00375 22: 2023-03-17 23:
43: 2024-04-16
52: Class 15 24: Part A
71: SANDVIK MINING AND CONSTRUCTION OY
33: US 31: 29/853,781 32: 2022-09-19
54: WHEEL LOADER
57: The design for which protection is claimed relates to a wheel loader shown in perspective front view in the drawing showing the overall appearance thereof.



21: A2023/00412 22: 2023-04-03 23:
43: 2024-04-16
52: Class 22 24: Part A
71: GARRISON TECHNOLOGY (PTY) LTD
54: A CHEEK REST FOR A FIREARM
57: The design is applied to a cheek rest for a firearm. The features of the design for which protection is claimed are those of the shape and/or configuration of the cheek rest for a firearm, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.

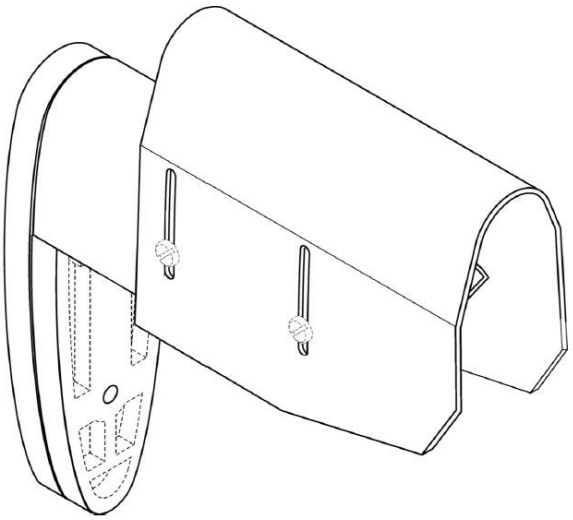


FIG. 24
THREE-DIMENSIONAL FRONT VIEW OF A CHEEK REST

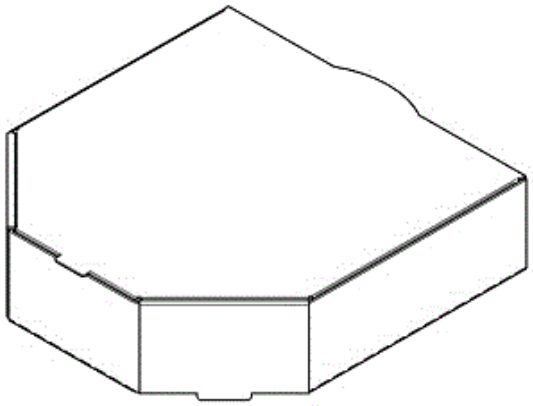
21: A2023/00467 22: 2023-04-14 23:
43: 2022-10-17
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015000647-0001 32: 2022-10-17
54: AUTOMOBILES
57: The design is for an automobile and in particular for a four door vehicle having a silhouette with a tapered bonnet, a bow-shaped flowing windscreen

and roofline, and a gently curved, coupé-like, truncated rear. A pair of rearwardly extending, recessed, pentagonal headlights with tapered front ends are provided at a front of the car. A pair of arrowhead-shaped members each housing an air-intake grille extend downwardly from the headlights, flanking an upper portion of a central hexagonal radiator grille, a lower half of each member extending forwardly. A short upper swage line and a lower swage line extend along each side of the car. The rear includes a curved upwardly projecting rear fin extending from a rear window above a slim upwardly projecting rear spoiler. An elongate light bar wraps around the rear above a pair of substantially triangular recessed grilles. A trapezium-shaped lower portion houses a pair of slim taillights above a pair of trapezium-shaped grilles.

Figure 6

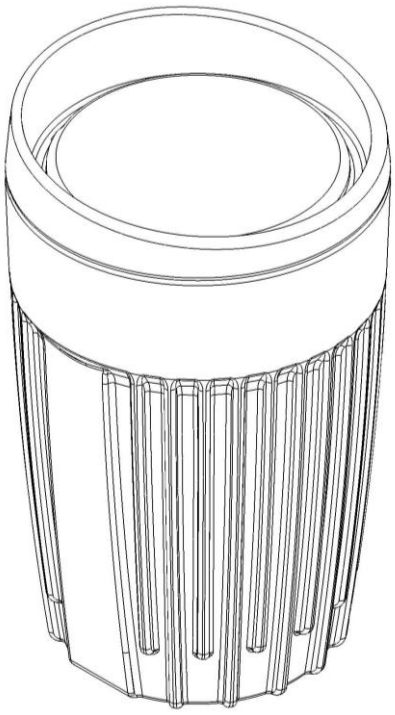
Three-dimensional view

21: A2023/00740 22: 2023-07-06 23:
43: 2024-04-23
52: Class 9. 24: Part A
71: MPACT LIMITED
54: Box
57: The design relates to a box. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT
PERSPECTIVE VIEW

21: A2023/00825 22: 2023-07-21 23:
43: 2024-02-09
52: Class 07 24: Part A
71: LUMOSS MOULDINGS (PTY) LTD.
54: BEVERAGE CONTAINER
57: The design is in respect of a beverage container having a substantially cylindrical body which extends between a lid-closable open top portion of the container to a base portion thereof. The container body has a slight taper from the top portion towards the base portion and includes a ribbed outer surface with a plurality of equidistantly spaced apart elongate ribs extending lengthwise substantially parallel with a longitudinal axis of the container. The ribbed outer surface is interrupted by two rib-free outer surface portions, disposed opposite one another. Longer- and shorter elongate ribs are positioned alongside one another in an alternating pattern between the two rib-free outer surface portions.



PERSPECTIVE VIEW

21: A2023/00956 22: 2023-09-01 23:
43: 2024-04-17
52: Class 16 24: Part A
71: UVEX ARBEITSSCHUTZ GMBH
33: EM 31: 015014560 32: 2023-03-15
54: SAFETY GOGGLE
57: The drawing shows a top perspective view of a safety goggle showing the overall appearance thereof.

21: A2023/00958 22: 2023-09-01 23:
43: 2024-04-17
52: Class 09 24: Part A
71: TEQAL (PTY) LTD
54: A ROLL-ON CONTAINER AND BALL
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation of a roll-on container and ball as shown in the accompanying representations, irrespective of the cap shown in broken lines.

Figure 6

A perspective view from the top and a side view of the roll-on container including shading and a roll-on ball.

21: A2023/00960 22: 2023-09-01 23:
43: 2024-04-17
52: Class 09 24: Part A
71: TEQAL (PTY) LTD
54: A CAP FOR A ROLL-ON CONTAINER
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation of a cap for a roll-on container as shown in the accompanying representations, irrespective of the roll-on container shown in broken lines.

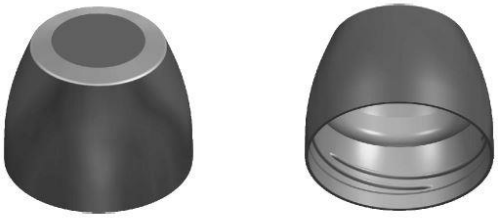
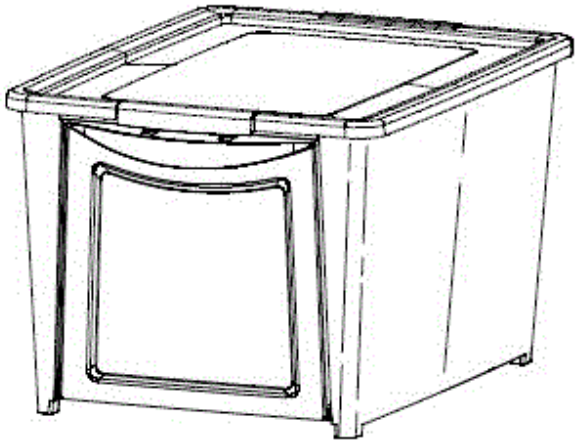


Figure 2

A top perspective view and a bottom perspective view of a cap for a roll-on container including shading.

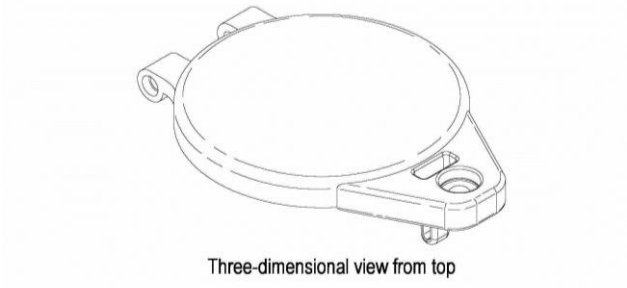
21: A2023/00963 22: 2023-09-04 23:
43: 2023-09-04
52: Class 9 24: Part A
71: USABCO INDUSTRIES PROPRIETARY LIMITED
54: Storage Containers
57: The design is applied to a storage container as shown in the accompanying representations. The storage container comprises a container body having a generally rectangular shape, defining a storage compartment and an access opening at a front end thereof. The access opening is closed by a

flap having a curved handle at an upper end thereof and hingedly connected to the container body at a lower end of the flap. The flap has an outwardly-facing, generally square recessed central portion having a curved upper region which matches a curvature of the handle.



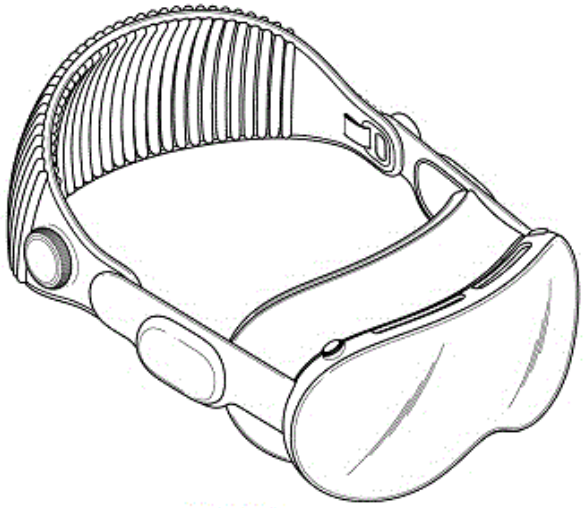
Another three-dimensional view from front

21: A2023/00965 22: 2023-09-04 23:
43: 2023-09-04
52: Class 10 24: Part A
71: GOVENDER, Preevin
54: Water meter boxes
57: This design relates to a lid for a portion of a water meter box or enclosure substantially as illustrated in the accompanying representations. The lid is typically for a portion of the water meter box which encloses an actuator handle of a valve associated with the water meter box. The lid is generally planar and comprises a circular body with a peripheral flange comprising a loop-like locking member and an aperture spaced therefrom for facilitating attachment of the lid to the portion of the water meter box enclosing the actuator handle.



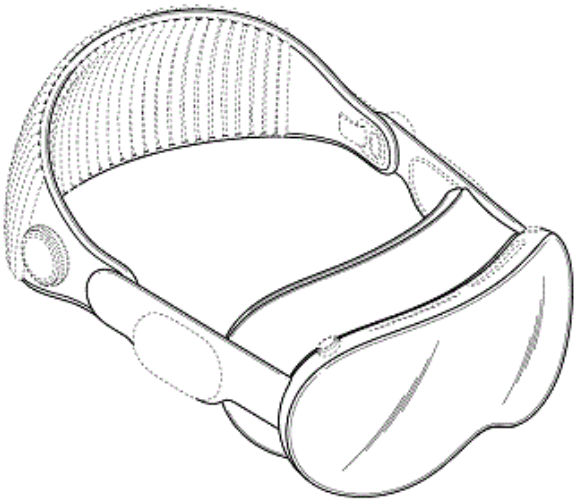
Three-dimensional view from top

21: A2023/00967 22: 2023-09-05 23:
43: 2024-04-16
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/886,190 32: 2023-03-06
54: Head-Mounted Display
57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



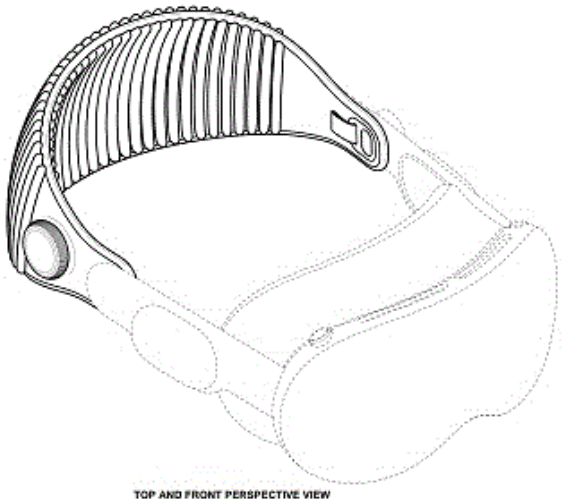
TOP AND FRONT PERSPECTIVE VIEW

21: A2023/00968 22: 2023-09-05 23:
43: 2024-04-15
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/886,190 32: 2023-03-06
54: Head-Mounted Display
57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



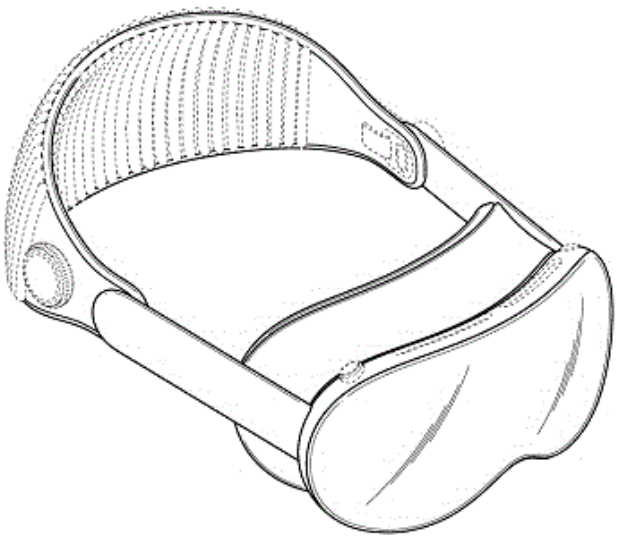
TOP AND FRONT PERSPECTIVE VIEW

21: A2023/00969 22: 2023-09-05 23:
43: 2024-04-15
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/886,193 32: 2023-03-06
54: Head-Mounted Display
57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



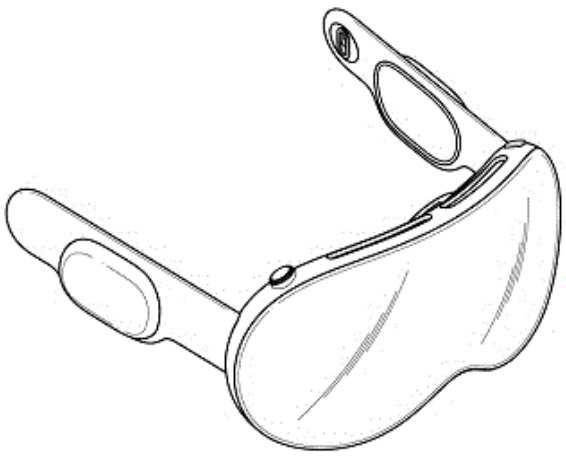
TOP AND FRONT PERSPECTIVE VIEW

21: A2023/00970 22: 2023-09-05 23:
43: 2024-04-15
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/886,190 32: 2023-03-06
54: Head-Mounted Display
57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



TOP AND FRONT PERSPECTIVE VIEW

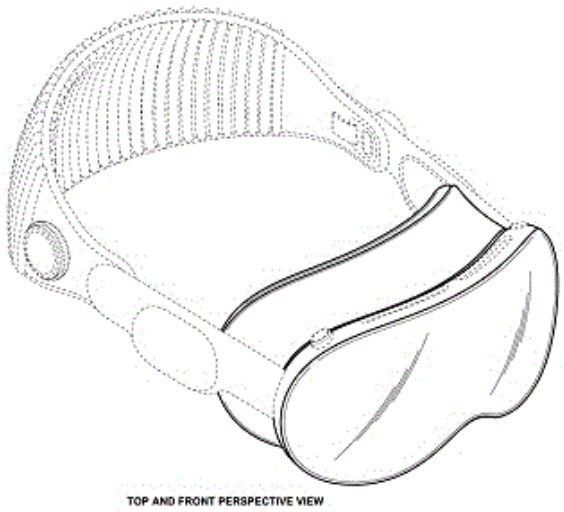
21: A2023/00971 22: 2023-09-05 23:
43: 2024-04-15
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/886,191 32: 2023-03-06
54: Head-Mounted Display
57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



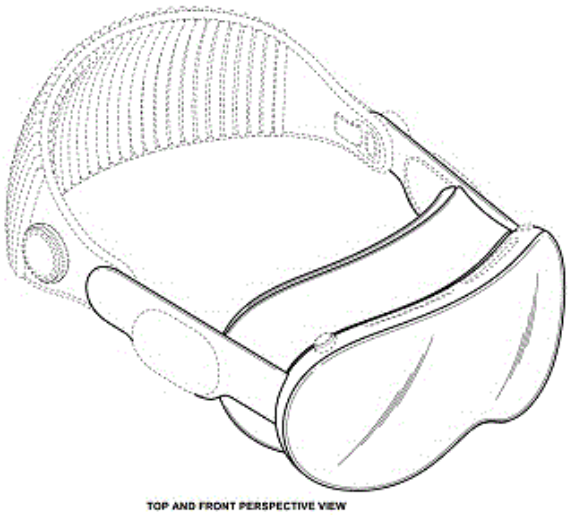
TOP AND FRONT PERSPECTIVE VIEW

21: A2023/00972 22: 2023-09-05 23:
43: 2024-04-12
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/886,191 32: 2023-03-06
54: Head-Mounted Display

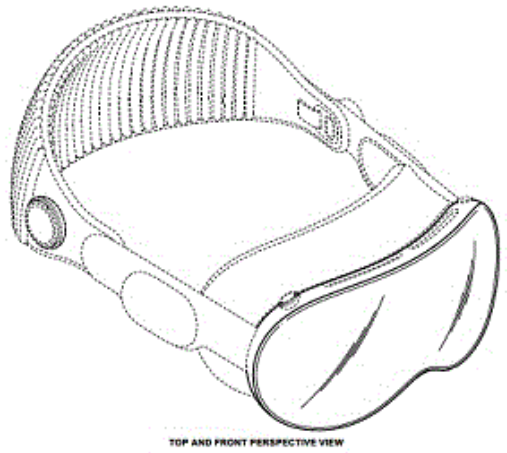
57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



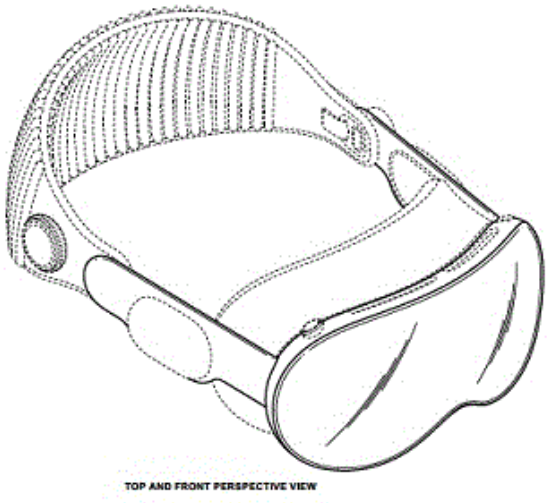
21: A2023/00973 22: 2023-09-05 23:
43: 2024-04-12
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/886,191 32: 2023-03-06
54: Head-Mounted Display
57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



21: A2023/00974 22: 2023-09-05 23:
43: 2024-04-12
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/886,191 32: 2023-03-06
54: Head-Mounted Display
57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

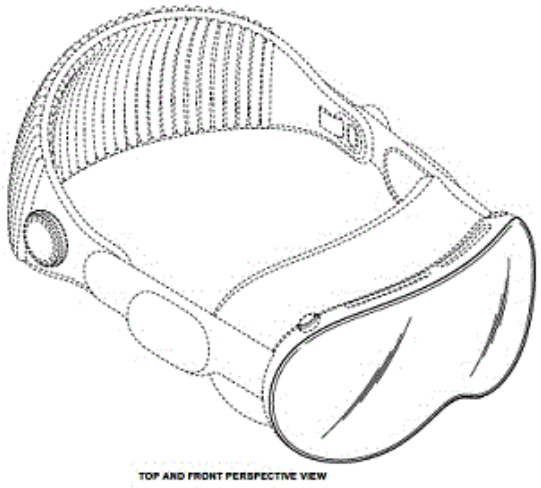


21: A2023/00975 22: 2023-09-05 23:
43: 2024-04-12
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/886,191 32: 2023-03-06
54: Head-Mounted Display
57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



21: A2023/00976 22: 2023-09-05 23:
43: 2024-04-12
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/886,191 32: 2023-03-06

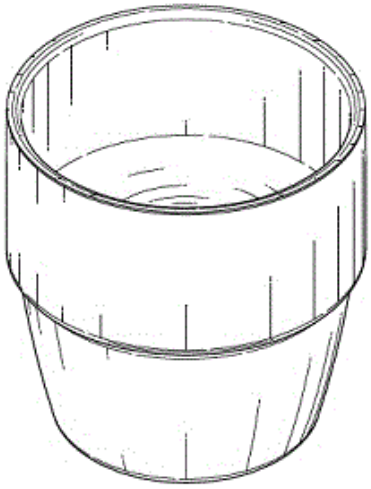
54: Head-Mounted Display
57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.


TOP AND FRONT PERSPECTIVE VIEW

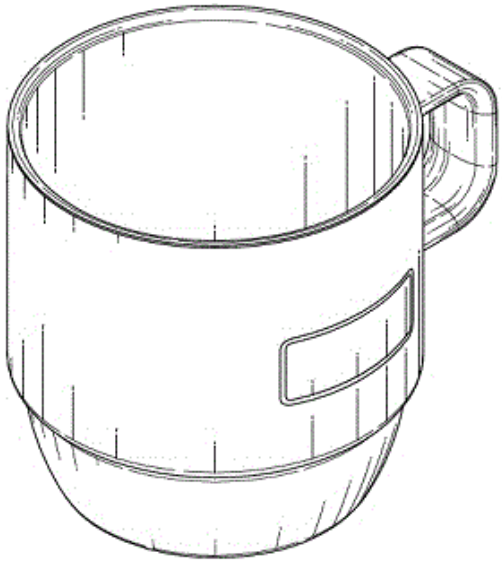
21: A2023/00977 22: 2023-09-05 23:
43: 2024-04-12
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/886,191 32: 2023-03-06
54: Head-Mounted Display
57: The design relates to a head-mounted display. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.


TOP AND FRONT PERSPECTIVE VIEW

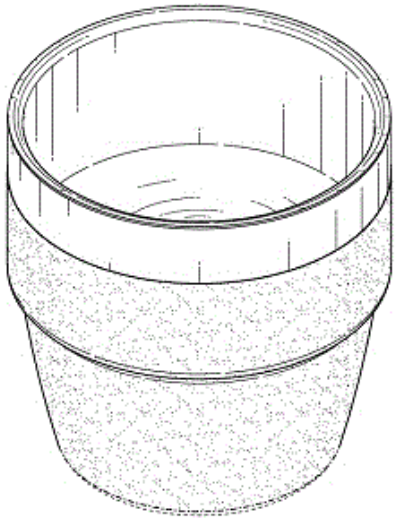
21: A2023/00978 22: 2023-09-07 23:
43: 2024-04-12
52: Class 7. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/886,658 32: 2023-03-10
54: Mug
57: The design relates to a mug. The features of the design are those of shape and/or configuration.


TOP REAR PERSPECTIVE VIEW

21: A2023/00979 22: 2023-09-07 23:
43: 2024-04-12
52: Class 7. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/886,660 32: 2023-03-10
54: Mug
57: The design relates to a mug. The features of the design are those of shape and/or configuration.

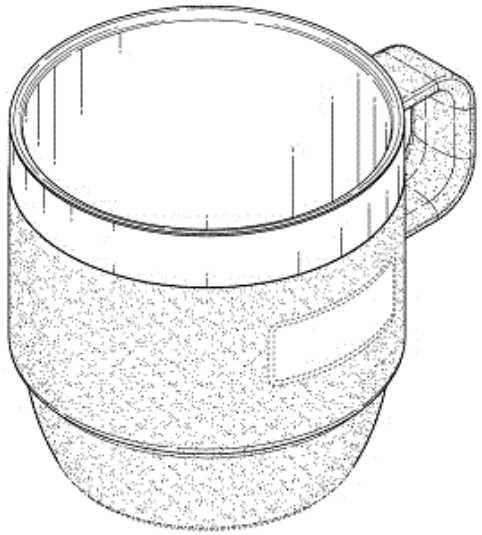

TOP FRONT RIGHT PERSPECTIVE VIEW

21: A2023/00980 22: 2023-09-07 23:
43: 2024-04-16
52: Class 7. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/886,662 32: 2023-03-10
54: Mug
57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP REAR PERSPECTIVE VIEW

21: A2023/00981 22: 2023-09-07 23:
43: 2024-04-12
52: Class 7. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/886,667 32: 2023-03-10
54: Mug
57: The design relates to a mug. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP FRONT RIGHT PERSPECTIVE VIEW

21: A2023/00994 22: 2023-09-11 23:
43: 2023-08-10
52: Class 12 24: Part A
71: Omni United (S) PTE Ltd.
33: US 31: 29/899,606 32: 2023-08-10
54: TYRES AND TYRE TREADS
57: The features of this tyre tread design include an asymmetrical groove pattern with long grooves around a tyre's circumference with short horizontal and diagonal cross grooves. The asymmetrical groove pattern works to improve road gripping ability and resistance to hydroplaning. The optimized tread pattern design boosts braking ability and increases steering responsiveness during driving.

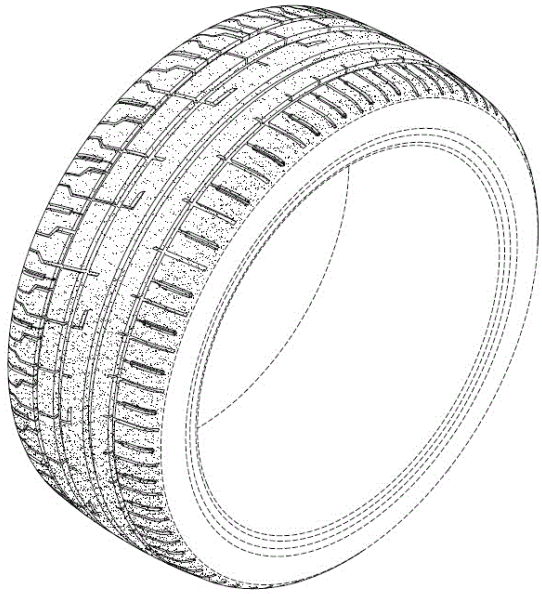
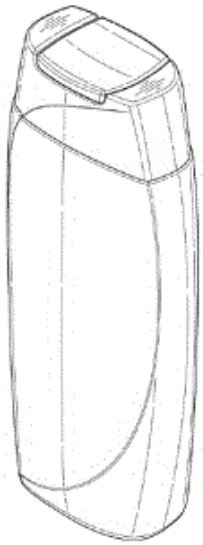


Figure 1

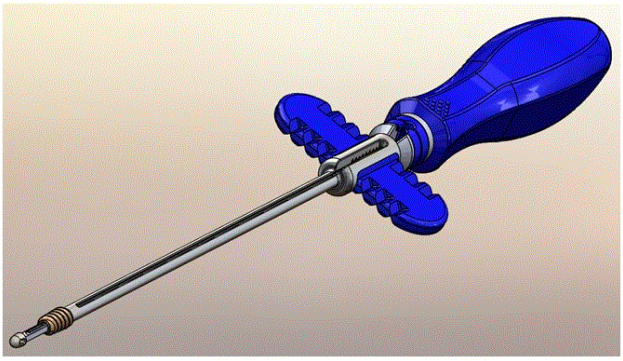
Three-dimensional view

21: A2023/00996 22: 2023-09-13 23:
43: 2024-04-12
52: Class 9. 24: Part A
71: UNILEVER GLOBAL IP LIMITED
33: US 31: 29/887,072 32: 2023-03-16
54: Bottle
57: The design relates to a bottle. The features of the design are those of shape and/or configuration.



FRONT, TOP AND RIGHT SIDE PERSPECTIVE VIEW

21: A2023/01001 22: 2023-09-14 23:
43: 2024-04-17
52: Class 24 24: Part A
71: ELITE SURGICAL SUPPLIES (PTY) LTD
54: AN ANCHOR INTRODUCER
57: The design relates to an anchor introducer. The features of the design are those of shape and/or configuration.



21: A2023/01003 22: 2023-09-14 23:
43: 2023-07-11
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 202330433402.0 32: 2023-07-11
54: AUTOMOBILES
57: The design relates to a five-door automobile. The automobile has a rearwardly downwardly sloping roofline which terminates a rear spoiler, and a rearwardly upwardly inclined waistline. The automobile includes a bonnet having transversely spaced indentations. A front bumper is generally rectangular shaped, with a central portion and inclined side portions extending rearwardly from the central portion. A generally trapezoid shaped light cut out is provided in each side portion. A lower region of the central portion includes a grill mesh comprising a plurality of transversely spaced vertically oriented ribs. Above the grill mesh is a centrally disposed license plate mounting panel and on each side of the license plate mounting panel are a plurality of evenly distributed sensors. Rear light clusters form part of a shoulder which extends for the full width of the automobile and protrudes from a lower edge of a rear window. The automobile includes a sunroof.

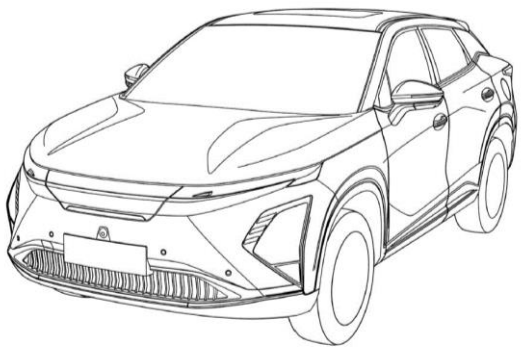
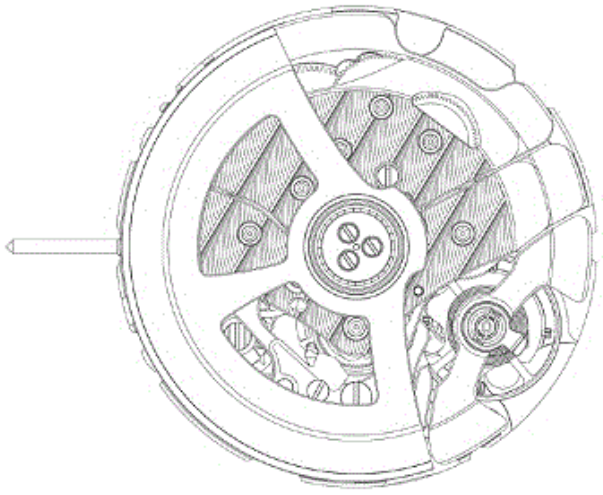


Figure 6

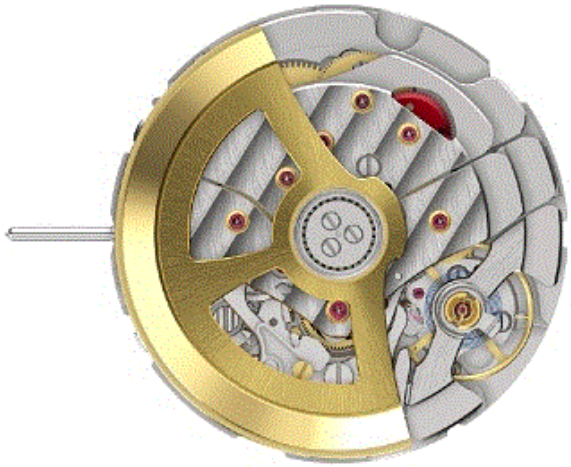
Three-dimensional view

21: A2023/01004 22: 2023-09-14 23:
43: 2024-04-12
52: Class 10. 24: Part A
71: ROLEX SA
33: CH 31: 2023-00156 32: 2023-03-16
54: Movement Mechanism for Clocks and Watches
57: The design relates to a movement mechanism for clocks and watches. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



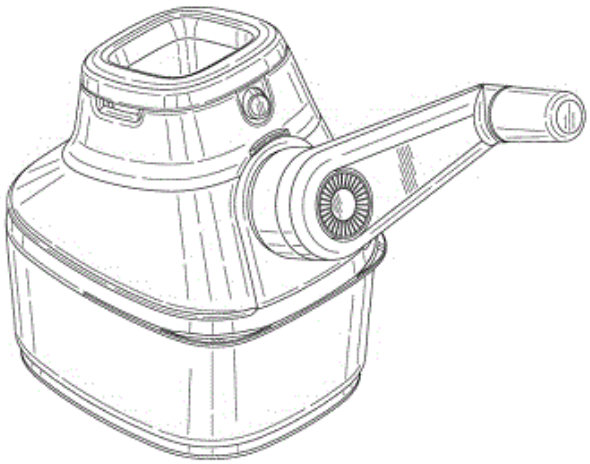
FRONT VIEW

21: A2023/01005 22: 2023-09-14 23:
43: 2024-04-12
52: Class 10. 24: Part A
71: ROLEX SA
33: CH 31: 2023-00163 32: 2023-03-17
54: Movement Mechanism for Clocks and Watches
57: The design relates to a movement mechanism for clocks and watches. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT VIEW

21: A2023/01006 22: 2023-09-14 23:
43: 2024-04-12
52: Class 7. 24: Part A
71: DART INDUSTRIES INC.
33: US 31: 29/893,118 32: 2023-05-25
54: Manual Food Grinder
57: The design relates to a manual food grinder. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP, FRONT AND RIGHT SIDE PERSPECTIVE VIEW

21: A2023/01010 22: 2023-09-18 23:

43: 2024-04-16
52: Class 2 24: Part A
71: Skechers U.S.A., Inc. II
33: US 31: 29/889,831 32: 2023-04-17
54: FOOTWEAR
57: The design is for footwear comprising a stretchable inner layer, having a flared collar and thicker heel cushion leading into thin interior quarters that extend around the instep region, and an outer layer having a stripe curving around the rear of the heel into T-shaped quarter overlays.

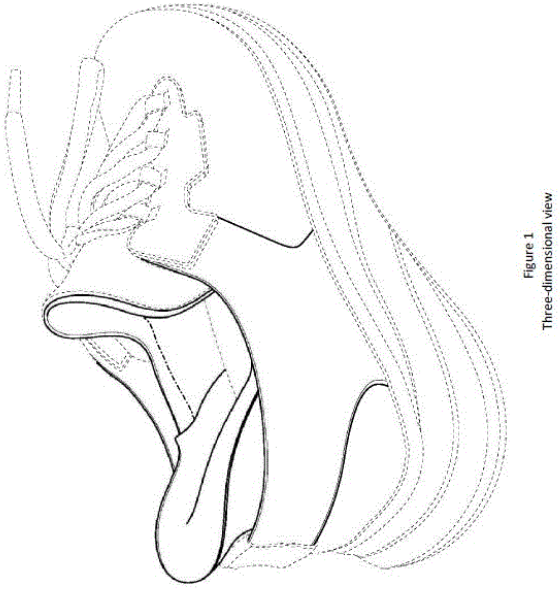


Figure 1
Three-dimensional view

21: A2023/01011 22: 2023-09-19 23:
43: 2023-03-20
52: Class 24 24: Part A
71: PARI GmbH Spezialisten für effektive Inhalation
33: EM(DE) 31: 015015072-0001 32: 2023-03-20
54: INHALATION MASKS
57: The design relates to an inhalation mask. Features of the inhalation mask are an "egg" shape in a front view (see view 6), a plurality of circular protrusions surrounding an outlet of the inhalation mask, the contour of the sealing lip sealing against the face of the patient, the oval shape of the outlet of the inhalation mask and the separation line of the mold shown within the sealing lip.

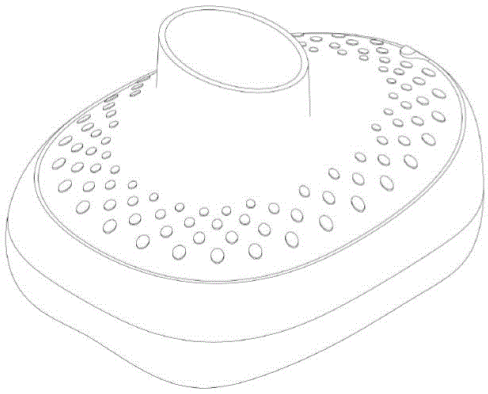


Figure 1

Three-dimensional view

21: A2023/01012 22: 2023-09-19 23:
43: 2023-03-20
52: Class 24 24: Part A
71: PARI GmbH Spezialisten für effektive Inhalation
33: EM(DE) 31: 015015072-0002 32: 2023-03-20
54: INHALATION MASKS
57: The design relates to an inhalation mask. Features of the inhalation mask are an "egg" shape in a front view (see view 6), a plurality of circular protrusions surrounding an outlet of the inhalation mask, the contour of the sealing lip sealing against the face of the patient, the oval shape of the outlet of the inhalation mask and the separation line of the mold shown within the sealing lip.

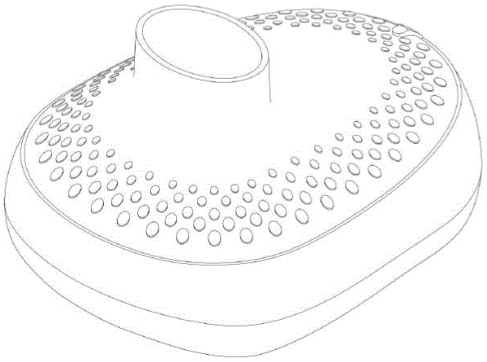
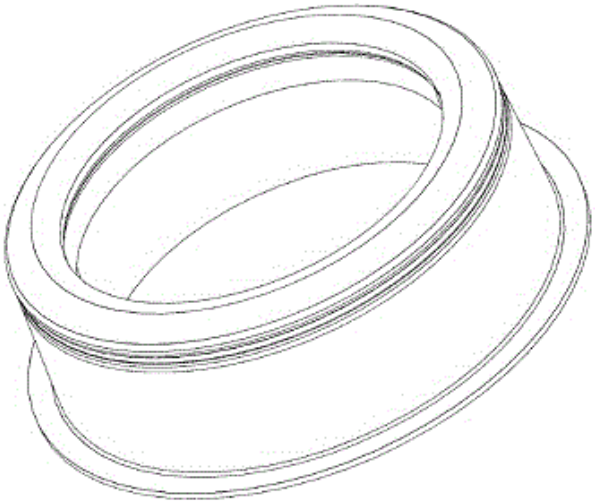


Figure 1

Three-dimensional view

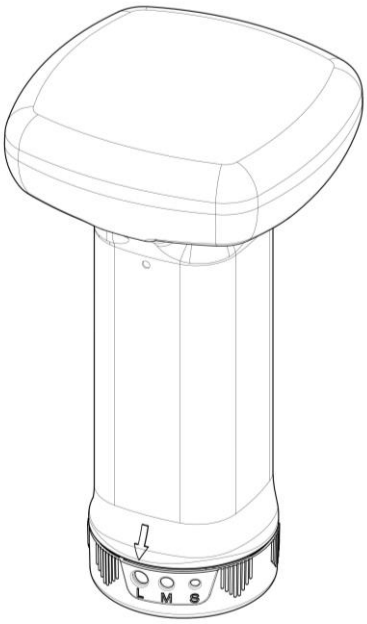
21: A2023/01015 22: 2023-09-19 23:
43: 2024-04-12
52: Class 23. 24: Part A
71: FLSMIDTH A/S
33: US 31: 29/887,337 32: 2023-03-20

54: Valve Sleeve
57: The design relates to a valve sleeve. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW

21: A2023/01023 22: 2023-09-21 23:
43: 2024-04-17
52: Class 04 24: Part A
71: POOL ROBOTICS SA PROPRIETY LIMITED
54: CONTAINER FOR LIQUID OR GRANULAR SUBSTANCES
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a Container for liquid or granular substances as shown in the accompanying representations, irrespective of the features shown in broken lines.



PERSPECTIVE VIEW

21: A2023/01025 22: 2023-09-22 23:
43: 2024-04-17
52: Class 12 24: Part A
71: RSI NORTH AMERICA, INC.
33: US 31: 29/887,877 32: 2023-03-24
54: VEHICLE BED
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 vehicle bed substantially as illustrated in the accompanying representations, irrespective of the features shown in broken lines.

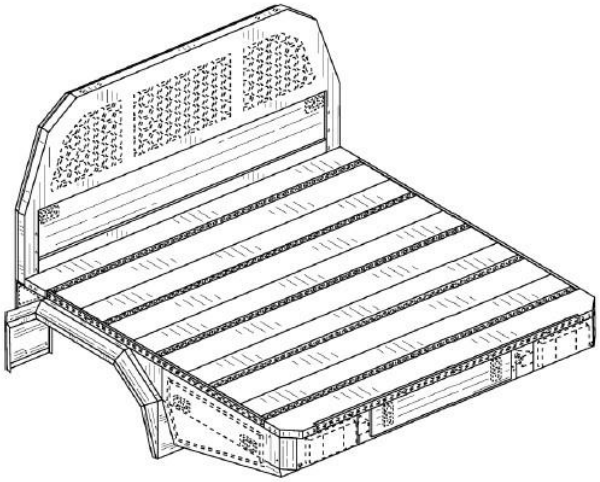


Figure 1

Illustrates a first perspective view of a first example embodiment of a vehicle bed according to the present disclosure

21: A2023/01027 22: 2023-09-22 23:
43: 2023-03-24
52: Class 9 24: Part A
71: Lupin Inc.
33: US 31: 29/887,847 32: 2023-03-24
54: TRAYS
57: The design is for a tray. The tray has a body having a substantially rectangular base. The body has opposed rectangular minor side walls and opposed major front and rear walls extending peripherally upwardly from the base. The body generally has rounded corners. A contiguous, irregularly shaped stepped shoulder is provided at the centre of the body along the major and minor walls. The shoulder has an undulating shape on the opposed major front and rear walls. The shoulder extends along a bottom edge of one of the minor side walls and extends along a top edge of the other minor side wall.

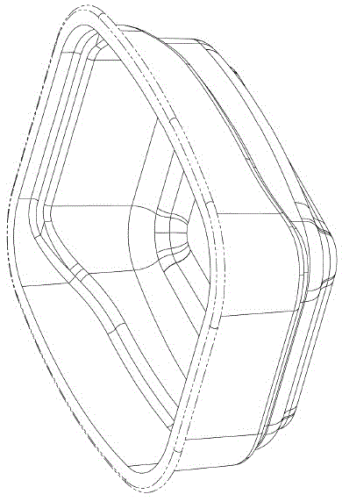


Figure 1

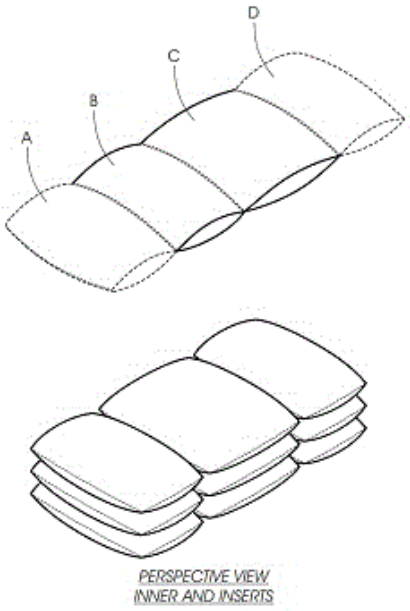
Three-dimensional view

21: A2023/01028 22: 2023-09-22 23:
43: 2024-04-17
52: Class 9 24: Part A
71: Beaute Prestige International
33: EM 31: 015015656-0001 32: 2023-03-24
54: PHIALS
57: The design is for a perfume phial comprising an elongate flask body extending upwardly from an oval base, and a removable cap. The base and cap each have a generally oval transverse cross-section. The phial has a width when viewed from the front which is constant for the entire height of the phial. The phial has a width when viewed from the side which decreases gradually upwardly away from the base. When the cap is removed, a cylindrical nozzle can be seen projecting upwardly from a flat top shoulder portion of the phial body. A hemispherical recess extends from the base into a lower region of the phial body.

Figure 1

Three-dimensional view, with a lid

21: A2023/01030 22: 2023-09-22 23:
43: 2024-04-12
52: Class 6. 24: Part A
71: BROCK, SUSAN
54: Customisable Pillow
57: The design relates to a customisable pillow. The features of the design are those of shape and/or configuration.



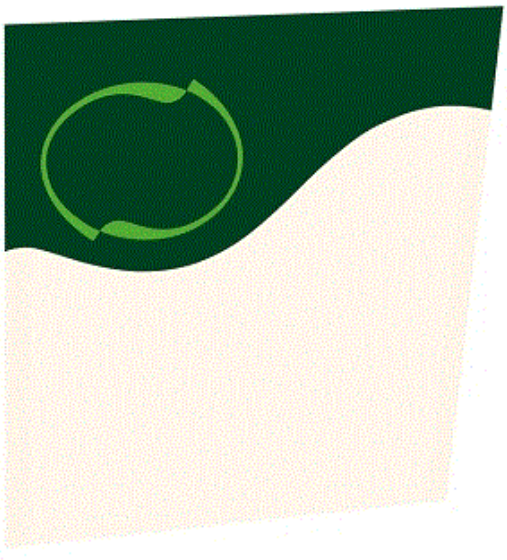
PERSPECTIVE VIEW
INNER AND INSERTS

21: A2023/01041 22: 2023-09-27 23:
43: 2023-03-28
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402023100202.8 32: 2023-03-28
54: MOTOR VEHICLES
57: The design is for a motor vehicle. The features of the design are illustrated in the overall appearance of the motor vehicle. The motor vehicle has a large kidney-shaped meshed grille at the front. Two daytime lights separated by two headlights are provided at the front on each side. A lower centrally disposed meshed grille spans between inlet openings provided below either side of the kidney-shaped meshed grille. A central recessed portion which curves gently downwardly towards the kidney-shaped grille is provided on the bonnet. Defined wheel arches are provided on the sides and the rear has an expressive rear end with a miniature spoiler extending upwardly from an edge of the trunk. A rear window is inclined to provide the motor vehicle with a sporty, coupé silhouette. Rear taillights are provided on either side at the top rear of the motor vehicle along with a pronounced diffuser at the bottom rear.

Figure 1

Three-dimensional view

21: A2023/01055 22: 2023-09-28 23:
43: 2024-04-15
52: Class 9. 24: Part A
71: CJ CHEILJEDANG CORPORATION
33: KR 31: 30-2023-0036707 32: 2023-09-15
54: Packaging Bag for Foodstuffs
57: The design relates to a packaging bag for foodstuffs. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



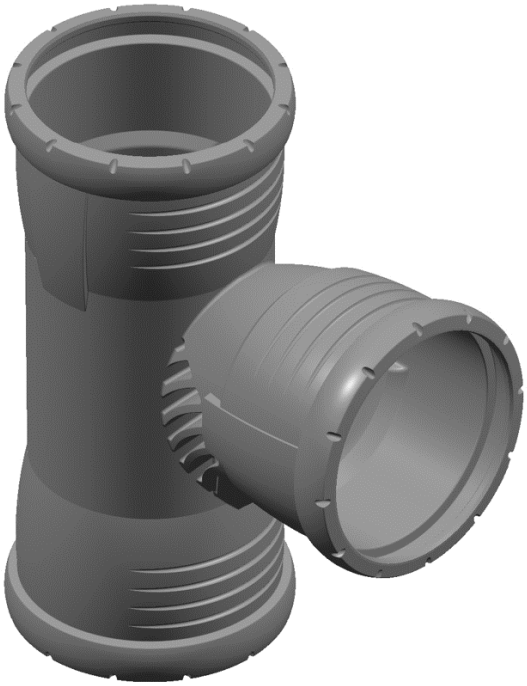
PERSPECTIVE VIEW

21: A2023/01058 22: 2023-09-29 23:
43: 2024-04-17
52: Class 21 24: Part A
71: Nacon
33: EM 31: 015016222-0001 32: 2023-03-30
54: GAME CONTROLLERS
57: The design is for a game controller. The controller includes a body having curved bulbous side portions interconnected by a central portion. The side portions are textured and protrude beyond an operatively lower edge of the central portion. A front face of the body has a centrally disposed rectangular tactile surface disposed in an upper portion thereof. A protruding circular-shaped button accommodating three rectangular buttons and an oblong button arranged in a form of a cross, and a protruding joystick controller that has a textured surface are disposed below the tactile surface. A group of four pronounced control buttons is located to the right of the tactile surface and another textured protruding joystick controller is positioned to the left of the display screen. Small buttons are provided on either side of the tactile surface. Control buttons and ports are provided at a top, rear and bottom of the body and side portions.

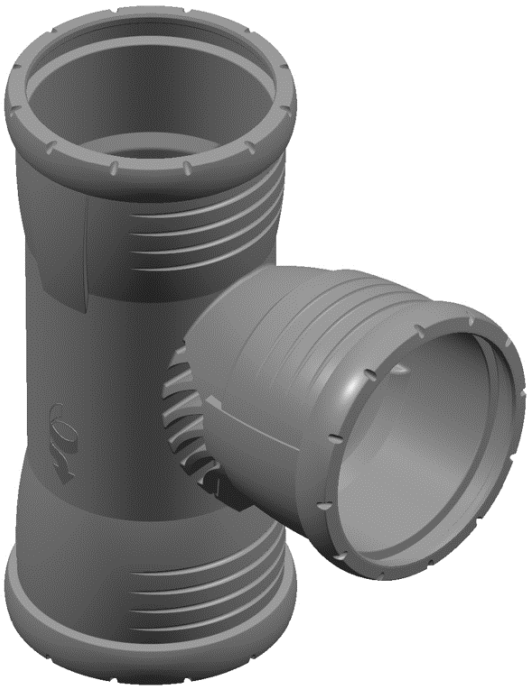
Figure 1

Three-dimensional view

21: A2023/01065 22: 2023-10-02 23:
43: 2024-05-15
52: Class 23 24: Part A
71: GEBERIT INTERNATIONAL AG
33: IB 31: 138923-7 32: 2023-09-28
54: PIPE ELEMENT
57: The design is applied to a pipe element. 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 pipe element, substantially as illustrated in the accompanying representation. No protection is claimed for the grey colour shown in the representations.

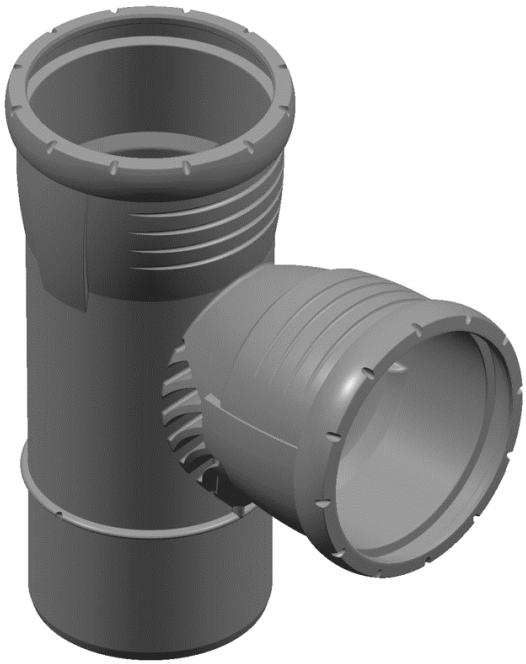


21: A2023/01067 22: 2023-10-02 23:
43: 2024-05-15
52: Class 23 24: Part A
71: GEBERIT INTERNATIONAL AG
33: IB 31: 138923-8 32: 2023-09-28
54: PIPE ELEMENT
57: The design is applied to a pipe element. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the pipe element, substantially as illustrated in the accompanying representation. No protection is claimed for the grey colour shown in the representations.

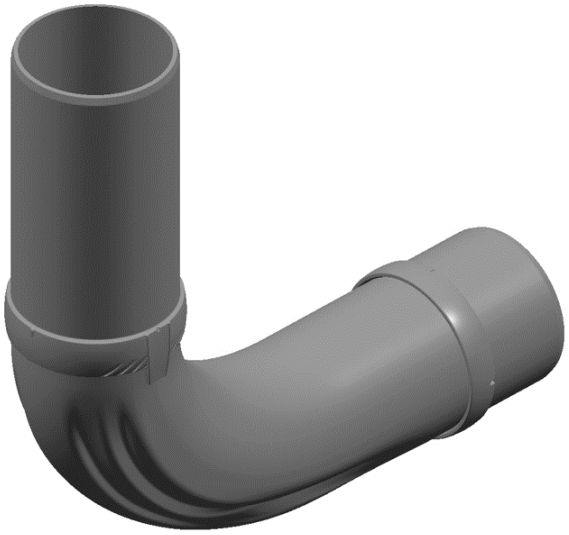


21: A2023/01068 22: 2023-10-02 23:
43: 2024-05-15
52: Class 23 24: Part A
71: GEBERIT INTERNATIONAL AG
33: IB 31: 138923-9 32: 2023-09-28
54: PIPE ELEMENT
57: The design is applied to a pipe element. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the pipe element, substantially as illustrated in the accompanying representation. No protection is claimed for the grey colour shown in the representations.

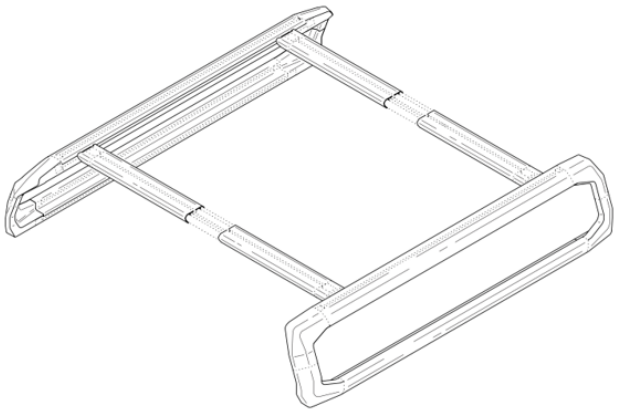
21: A2023/01069 22: 2023-10-02 23:
43: 2024-05-15
52: Class 23 24: Part A
71: GEBERIT INTERNATIONAL AG
33: IB 31: 138923-10 32: 2023-09-28
54: PIPE ELEMENT
57: The design is applied to a pipe element. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the pipe element, substantially as illustrated in the accompanying representation. No protection is claimed for the grey colour shown in the representations.



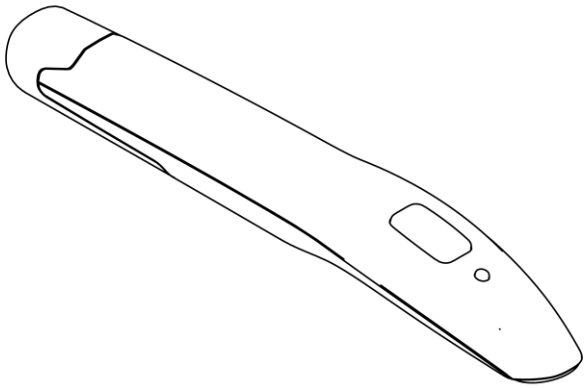
21: A2023/01070 22: 2023-10-02 23:
43: 2024-05-15
52: Class 23 24: Part A
71: GEBERIT INTERNATIONAL AG
33: IB 31: 138923-11 32: 2023-09-28
54: PIPE ELEMENT
57: The design is applied to a pipe element. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the pipe element, substantially as illustrated in the accompanying representation. No protection is claimed for the grey colour shown in the representations.



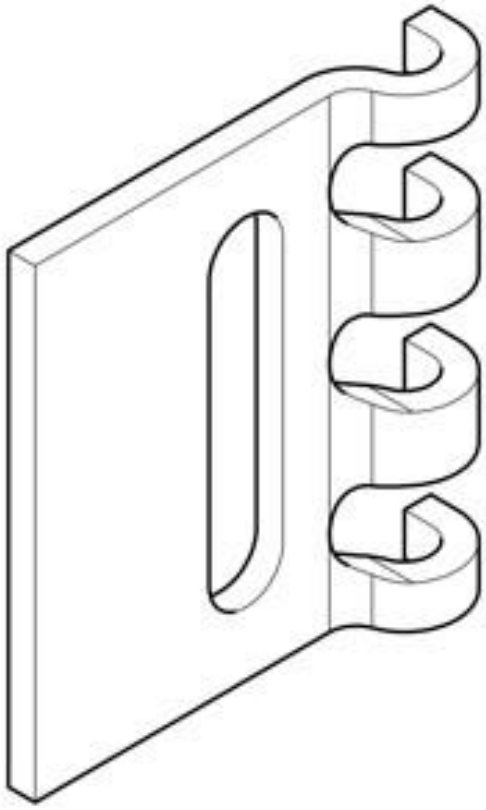
21: A2023/01103 22: 2023-10-12 23:
43: 2024-05-15
52: Class 12 24: Part A
71: KUAT INNOVATIONS LLC
54: UTILITY RACK
57: The design is applied to a utility rack. The features of the design for which protection is claimed are those of the shape and/or configuration of the utility rack, substantially as illustrated in the accompanying representation. Separations depicted by break lines in sections marked “A” indicate an indeterminate length and any portions between these break lines do not form part of the design and are disclaimed. All other features shown in broken lines do not form part of the design and are disclaimed. Contour lines are provided to indicate the surface contours but do not form part of the design and are disclaimed.



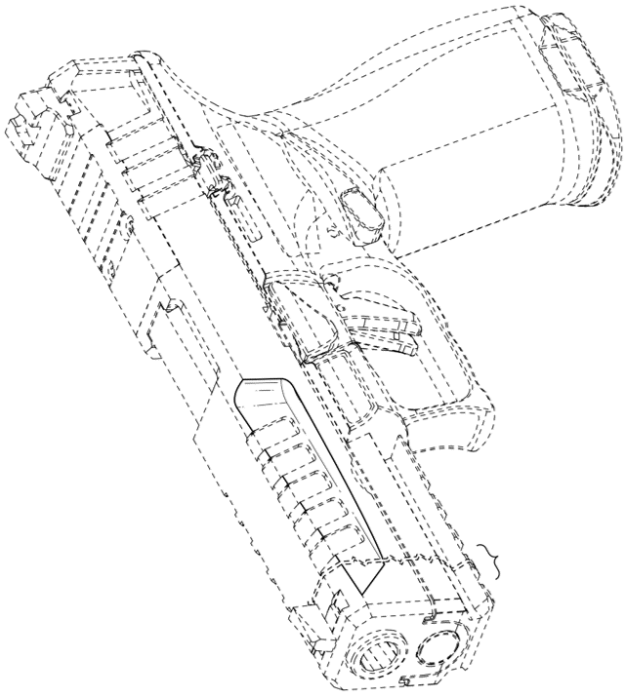
21: A2023/01124 22: 2023-10-18 23:
43: 2024-05-16
52: Class 24 24: Part A
71: DERMAPHARM AG
33: EP 31: 015018638 32: 2023-04-19
54: APPARATUS FOR THERMOTHERAPY
57: The design is for apparatus for thermotherapy that has an elongate shape with a single button on its top and a circular, downturned front end.



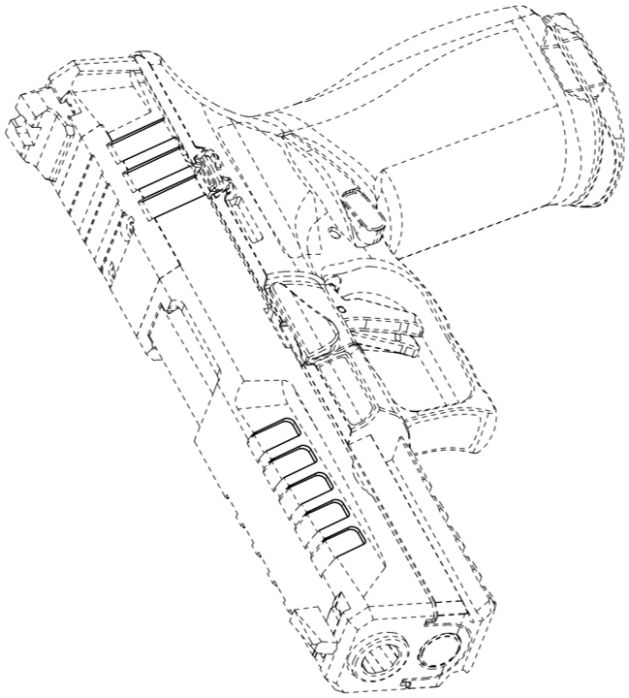
21: A2023/01126 22: 2023-10-19 23:
43: 2024-05-16
52: Class 08 24: Part A
71: GUARDIAR SOUTH AFRICA (PTY) LTD
54: FENCING CLAMP
57: The design is applied to a fencing clamp. The features of the design for which protection is claimed are those of the shape and/or configuration of the fencing clamp, substantially as illustrated in the accompanying representations.



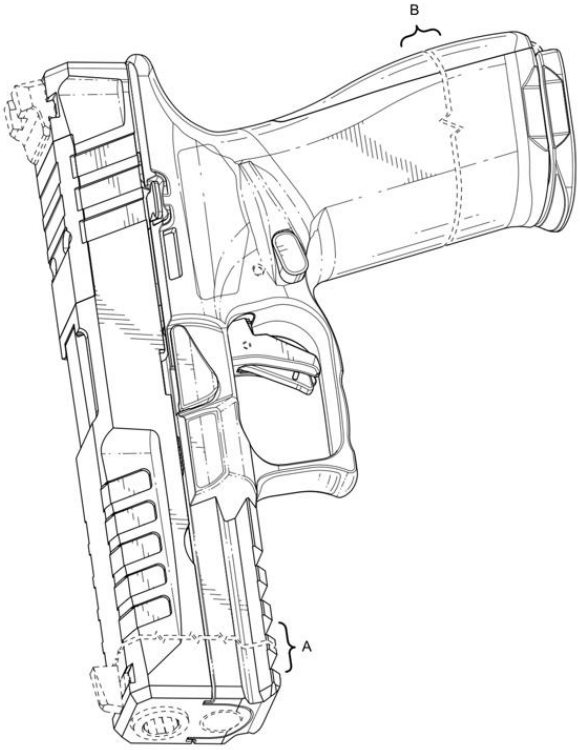
21: A2023/01170 22: 2023-10-27 23:
43: 2024-05-15
52: Class 22 24: Part A
71: HS PRODUKT D.O.O.
33: HR 31: D20230050-1 32: 2023-04-28
54: FIREARM
57: The design is applied to a firearm. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the firearm, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Separations depicted by break lines (A) indicate an indeterminate length and any portion between the break lines does not form part of the design and is disclaimed.



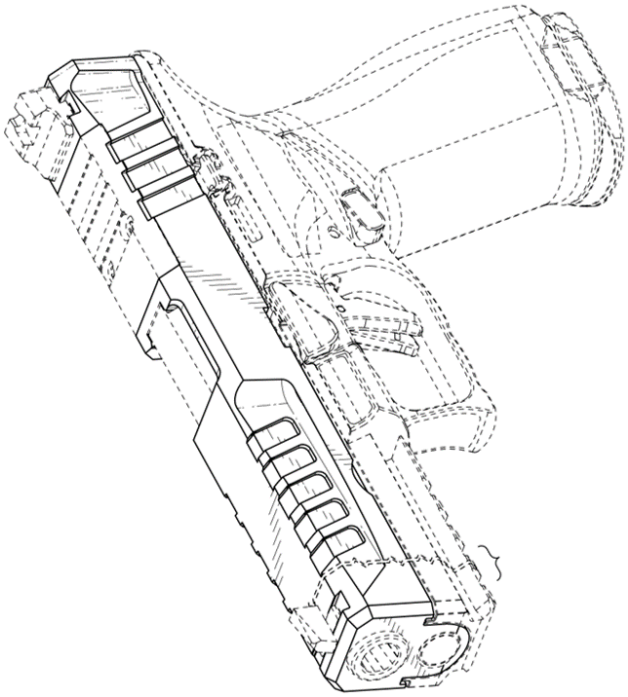
21: A2023/01172 22: 2023-10-27 23:
43: 2024-05-15
52: Class 22 24: Part A
71: HS PRODUKT D.O.O.
33: HR 31: D20230050-4 32: 2023-04-28
54: FIREARM
57: The design is applied to a firearm. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the firearm, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



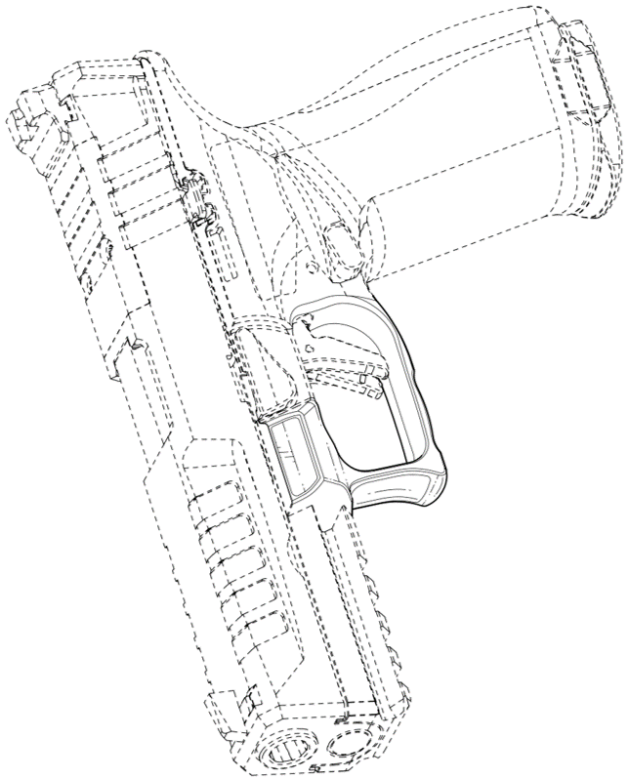
21: A2023/01173 22: 2023-10-27 23:
43: 2024-05-15
52: Class 22 24: Part A
71: HS PRODUKT D.O.O.
33: HR 31: D20230050-6 32: 2023-04-28
54: FIREARM
57: The design is applied to a firearm. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the firearm, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Separations depicted by break lines (A, B) indicate an indeterminate length and any portion between the break lines does not form part of the design and is disclaimed. Surface shading lines are provided to indicate the surface character but do not form part of the design and are also disclaimed.



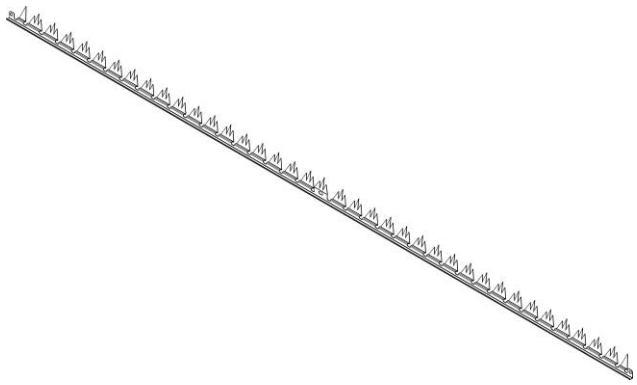
21: A2023/01174 22: 2023-10-27 23:
43: 2024-05-15
52: Class 22 24: Part A
71: HS PRODUKT D.O.O.
33: HR 31: D20230050-3 32: 2023-04-28
54: FIREARM
57: The design is applied to a firearm. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the firearm, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Separations depicted by break lines (A) indicate an indeterminate length and any portion between the break lines does not form part of the design and is disclaimed. Surface shading lines are provided to indicate the surface character but do not form part of the design and are also disclaimed.



21: A2023/01175 22: 2023-10-27 23:
43: 2024-05-15
52: Class 22 24: Part A
71: HS PRODUKT D.O.O.
33: HR 31: D20230050-5 32: 2023-04-28
54: FIREARM
57: The design is applied to a firearm. 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 firearm, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Surface shading lines are provided to indicate the surface character but do not form part of the design and are also disclaimed.

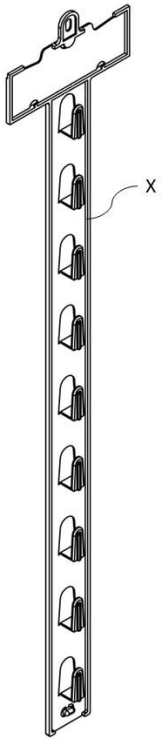


21: A2023/01181 22: 2023-10-31 23:
43: 2024-05-15
52: Class 25 24: Part A
71: GUARDIAR SOUTH AFRICA (PTY) LTD
54: A STIFFENING ELEMENT FOR FENCING
57: The design is applied to a stiffening element for fencing. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the stiffening element for fencing, substantially as illustrated in the accompanying representations.

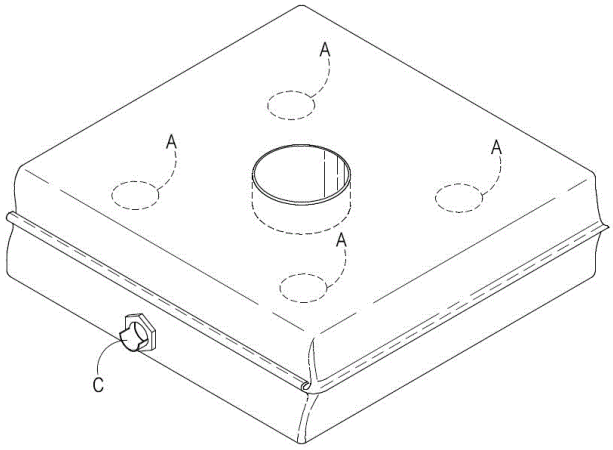


21: F2022/01558 22: 2022-12-01 23:
43: 2024-03-15

52: Class 20 24: Part F
71: THREE NIGHT OWLS (PTY) LTD
54: A DISPLAY DEVICE
57: The novelty of the design resides in the shape and/or configuration of a display device substantially as shown in the accompanying representation wherein a portion marked “X” does not form part of the design and the shape and/or configuration of the portion X may vary.



21: F2022/01588 22: 2022-12-08 23:
43: 2022-12-08
52: Class 25 24: Part F
71: Timrite (Pty) Ltd
54: Load Support Bags
57: The design is in respect of a load support bag or a grout bag which includes a flexible outer shell which is formed from a length of tubular material. Open ends of the length of tubular material are stitched closed in order to define a cavity. An internal panel is connected around its periphery to the shell and forms a partition which divides the cavity into spaced apart compartments. A valve C extends through the shell into flow communication with one of the compartments to permit the introduction of a settable substance or grout therein. A plurality of holes which are spaced inwardly from the sidewall extend through the partition to connect the compartments in flow communication and permit the flow of settable substance from one compartment to the other. A centrally disposed sleeve extends through the shell and defines a passage through which a prop can extend in use.



21: F2023/00961 22: 2023-09-01 23:
43: 2024-04-17
52: Class 09 24: Part F
71: TEQAL (PTY) LTD
54: A CAP FOR A ROLL-ON CONTAINER
57: The features of the design for which protection is claimed reside in the shape and/or configuration of a cap for a roll-on container as shown in the accompanying representations, irrespective of the roll-on container shown in broken lines and irrespective of any colour, images or text applied to the cap.

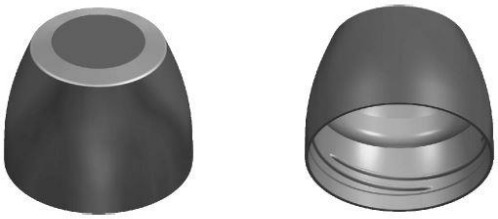
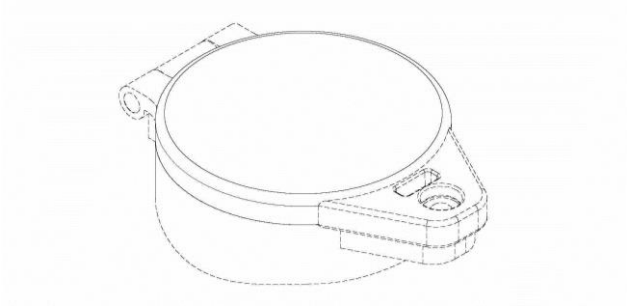


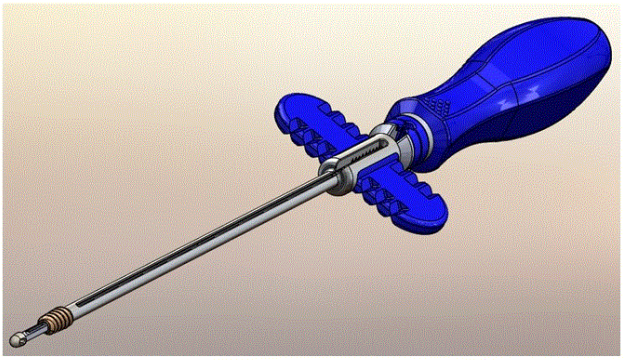
Figure 2

A top perspective view and a bottom perspective view of a cap for a roll-on container including shading.

21: F2023/00966 22: 2023-09-04 23:
43: 2023-09-04
52: Class 10 24: Part F
71: GOVENDER, Preevin
54: Water meter boxes
57: This design relates to a portion of a water meter box or enclosure, particularly an anti-tamper arrangement of/for a water meter box substantially as illustrated in the accompanying representations.



21: F2023/01002 22: 2023-09-14 23:
43: 2024-04-17
52: Class 24 24: Part F
71: ELITE SURGICAL SUPPLIES (PTY) LTD
54: AN ANCHOR INTRODUCER
57: The design relates to an anchor introducer. The features of the design are those of shape and/or configuration.



21: F2023/01013 22: 2023-09-19 23:
43: 2023-03-20
52: Class 24 24: Part F
71: PARI GmbH Spezialisten für effektive Inhalation
33: EM(DE) 31: 015015072-0001 32: 2023-03-20
54: INHALATION MASKS
57: The design relates to an inhalation mask. Features of the inhalation mask are an "egg" shape in a front view (see view 6), a plurality of circular protrusions surrounding an outlet of the inhalation mask, the contour of the sealing lip sealing against the face of the patient, the oval shape of the outlet of the inhalation mask and the separation line of the mold shown within the sealing lip.

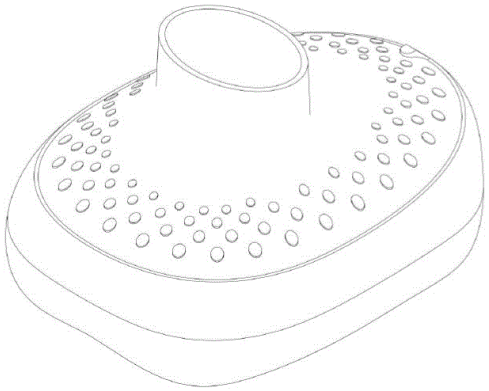


Figure 1

Three-dimensional view

21: F2023/01014 22: 2023-09-19 23:
43: 2023-03-20
52: Class 24 24: Part F
71: PARI GmbH Spezialisten für effektive Inhalation
33: EM(DE) 31: 015015072-0002 32: 2023-03-20
54: INHALATION MASKS
57: The design relates to an inhalation mask. Features of the inhalation mask are an "egg" shape in a front view (see view 6), a plurality of circular protrusions surrounding an outlet of the inhalation mask, the contour of the sealing lip sealing against the face of the patient, the oval shape of the outlet of the inhalation mask and the separation line of the mold shown within the sealing lip.

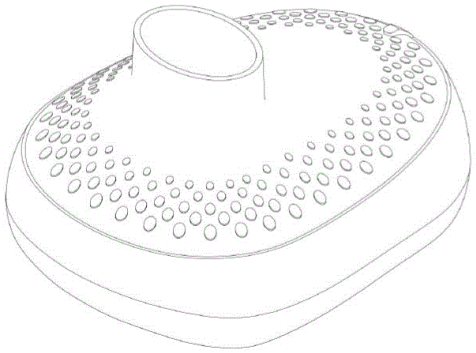


Figure 1

Three-dimensional view

21: F2023/01026 22: 2023-09-22 23:
43: 2024-04-17
52: Class 12 24: Part F
71: RSI NORTH AMERICA, INC.
33: US 31: 29/887,877 32: 2023-03-24

54: VEHICLE BED
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of a vehicle bed substantially as illustrated in the accompanying representations, irrespective of the features shown in broken lines.

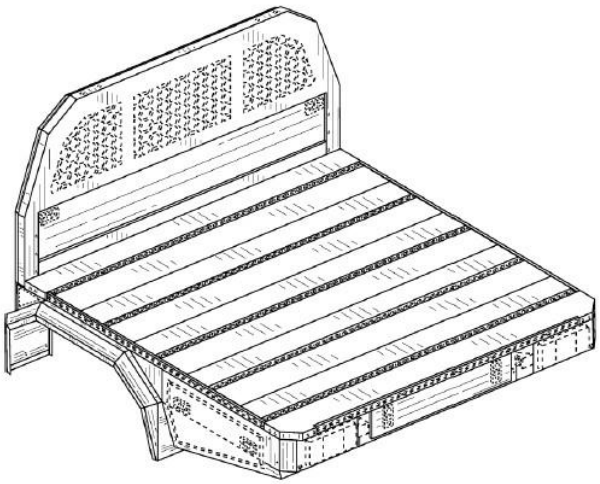


Figure 1

Illustrates a first perspective view of a first example embodiment of a vehicle bed according to the present disclosure

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21: F2023/01031 22: 2023-09-26 23:
43: 2024-04-17
52: Class 13 24: Part F
71: SMT SCHARF AFRICA (PTY) LTD
54: BATTERY MODULE
57: The design is in respect of the shape and/or configuration of a battery module substantially as shown in the respresentations and having an outer housing into which is inserted the electrical components of the battery and which together form a module.

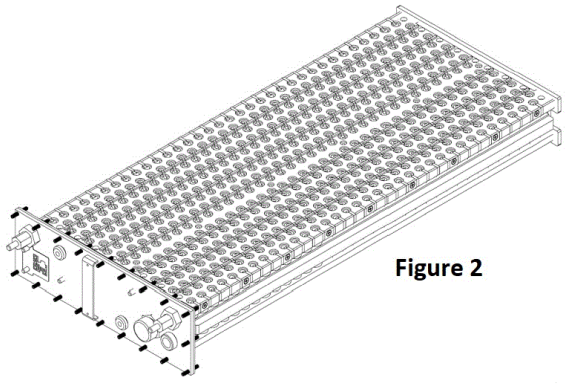
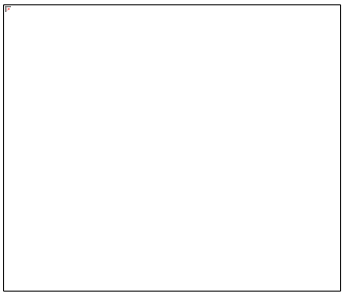


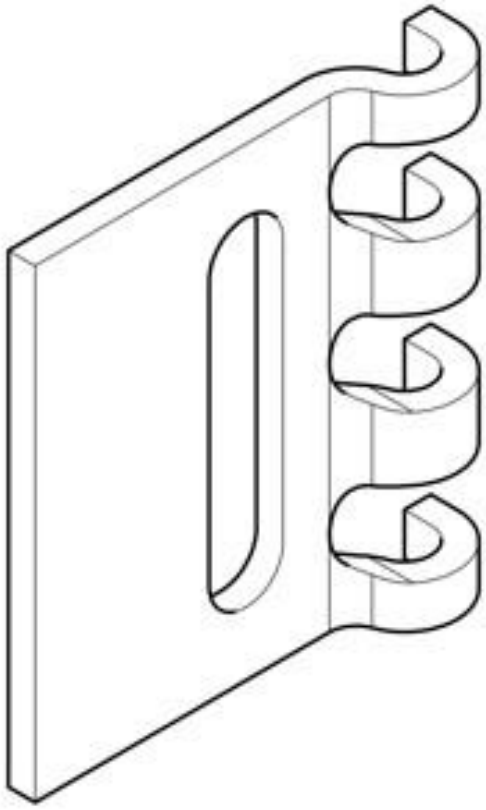
Figure 2

21: F2023/01032 22: 2023-09-26 23:
43: 2024-04-17
52: Class 9 24: Part F
71: WAVE PAPER (PTY) LTD
54: A BLANK FOR A TRAY FOR FOOD PACKAGING
57: The representation shows a three-dimensional side and top view of a blank for a tray for food packaging in accordance with the present design when folded into a tray for packaging food showing the overall appearance thereof.

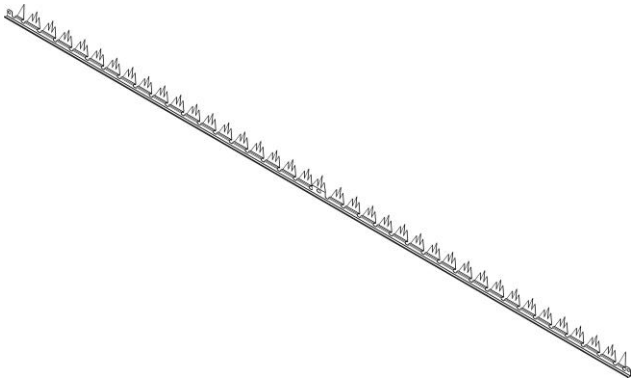


21: F2023/01033 22: 2023-09-26 23:
43: 2024-04-17
52: Class 9 24: Part F
71: WAVE PAPER (PTY) LTD
54: A BLANK FOR A TRAY FOR FOOD PACKAGING
57: The representation shows a three-dimensional side and top view of a blank for a tray for food packaging in accordance with the present design when folded into a tray for packaging food showing the overall appearance thereof.

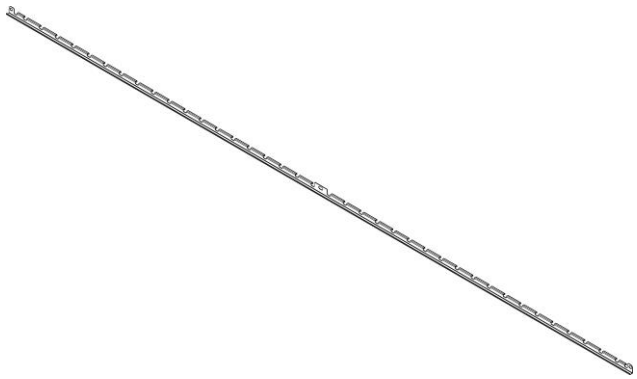
21: F2023/01127 22: 2023-10-19 23:
43: 2024-05-15
52: Class 08 24: Part F
71: GUARDIAR SOUTH AFRICA (PTY) LTD
54: FENCING CLAMP
57: The design is applied to a fencing clamp. The features of the design for which protection is claimed are those of the shape and/or configuration of the fencing clamp, substantially as illustrated in the accompanying representations.



21: F2023/01182 22: 2023-10-31 23:
43: 2024-05-15
52: Class 25 24: Part F
71: GUARDIAR SOUTH AFRICA (PTY) LTD
54: A STIFFENING ELEMENT FOR FENCING
57: The design is applied to a stiffening element for fencing. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the stiffening element for fencing, substantially as illustrated in the accompanying representations.



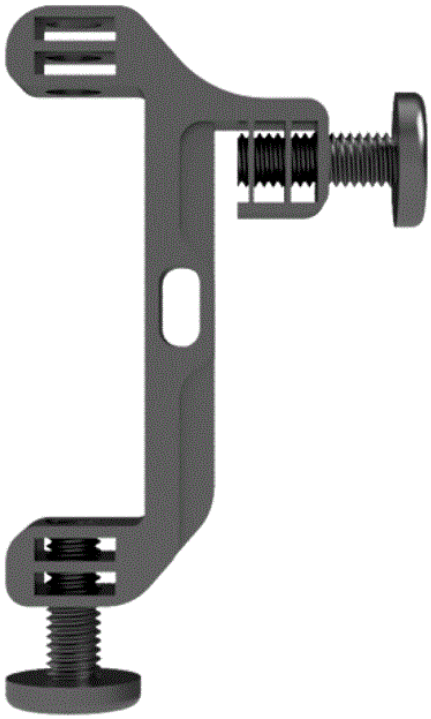
21: F2023/01183 22: 2023-10-31 23:
43: 2024-05-15
52: Class 25 24: Part F
71: GUARDIAR SOUTH AFRICA (PTY) LTD
54: A STIFFENING ELEMENT FOR FENCING
57: The design is applied to a stiffening element for fencing. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the stiffening element for fencing, substantially as illustrated in the accompanying representations.



21: F2024/00353 22: 2024-04-10 23:
43: 2024-05-21
52: Class 10 24: Part F
71: Super Telecom Co., Ltd.
54: ELECTRICITY METERS
57: The design relates to a Electricity meters. The features of the design are those of shape and/or pattern and/or configuration.

21: F2024/00383 22: 2024-04-22 23:
43: 2024-05-21
52: Class 8 24: Part F
71: John Abraham Kotze jnr.
54: SOLAR PANEL CLAMP

57: The design relates to a Solar Panel Clamp. The features of the design are those of shape and/or pattern and/or configuration.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

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 PRACTISE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

No records available

PATENT CORRECTION NOTICES

The notice of acceptance of South African Patent Application No. **2017/04777**, in the name of **MYOKARDIA, INC**, was erroneously published in the Patent Journal of 26 July 2023. Therefore it's publication in the Patent Journal of 26 July 2023 is **null and void**.

DESIGN CORRECTION NOTICES

The Design under application no: **F2023/00787** was advertised in the March 2024 journal with an incorrect drawing and it should have appeared as the one below but the publication date will remain as the **27/03/2024.**

21: F2023/00787 22: 2023-07-12 23:

43: 2024-02-09

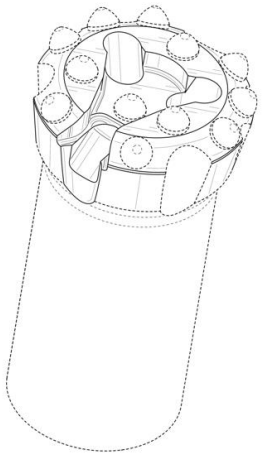
52: Class 08 24: Part F

71: LONGYEAR TM, INC.

33: US 31: 29/869,924 32: 2023-01-12

54: DRILL BIT

57: The design is applied to a drill bit. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the drill bit, substantially as illustrated in the accompanying representations. Features shown in broken lines do not form part of the design and are disclaimed.



COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for June 2024

Number of Advertised Patents: 640

Application Number	Patent Title	Filing Date
2014/03552	ANTI-ADRENOMEDULLIN (ADM) ANTIBODY OR ANTI-ADM ANTIBODY FRAGMENT OR ANTI-ADM NON-IG SCAFFOLD FOR PREVENTION OR REDUCTION OF ORGAN DYSFUNCTION OR ORGAN FAILURE IN A PATIENT HAVING A CHRONIC OR ACUTE DISEASE OR ACUTE CONDITION	2014/05/15
2015/01097	ANTI-CD3 ANTIBODIES, BISPECIFIC ANTIGEN-BINDING MOLECULES THAT BIND CD3 AND CD20, AND USES THEREOF	2015/02/17
2015/04081	ENGINEERING AND OPTIMIZATION OF IMPROVED SYSTEMS, METHODS AND ENZYME COMPOSITIONS FOR SEQUENCE MANIPULATION	2015/06/05
2017/00245	INTERLEUKIN-2/INTERLEUKIN-2 RECEPTOR ALPHA FUSION PROTEINS AND METHODS OF USE	2017/01/11
2017/00408	CONTROL SYSTEM FOR AN IMPROVED RAIL TRANSPORT SYSTEM FOR CONVEYING BULK MATERIALS	2017/01/18
2017/00457	TONER CARTRIDGE, TONER SUPPLY MECHANISM, AND SHUTTER	2017/01/19
2017/05757	ANTI-CD3 ANTIBODIES, BISPECIFIC ANTIGEN-BINDING MOLECULES THAT BIND CD3 AND CD20, AND USES THEREOF	2017/08/23
2017/07524	MONO- OR DI-SUBSTITUTED INDOLE DERIVATIVES AS DENGUE VIRAL REPLICATION INHIBITORS	2017/11/07
2017/08753	METHOD AND APPARATUS FOR AGGLOMERATING HYDROPHOBIC PARTICLES	2017/12/21
2018/01050	MOLECULAR DIAGNOSTIC ASSAY SYSTEM	2018/02/15
2018/03325	PLANTING TRENCH CLOSING SYSTEMS, METHODS, AND APPARATUS	2018/05/18
2018/03854	BIOMARKERS FOR PROSPECTIVE	2018/06/08

Application Number	Patent Title	Filing Date
	DETERMINATION OF RISK FOR DEVELOPMENT OF ACTIVE TUBERCULOSIS	
2018/06569	SYSTEM AND METHOD FOR MANUFACTURING RAILCAR COUPLER HEADCORES	2018/10/03
2018/07656	PYRAZOLOPYRIMIDINE DERIVATIVES	2018/11/14
2019/00857	ANTI-TIGIT ANTIBODIES AND METHODS OF USE	2019/02/11
2019/01035	ASSAY FOR DETERMINING POTENTIAL TO SELF-ASSOCIATION OF A PROTEIN USING CONCENTRATION-DEPENDENT SELF-INTERACTION NANOPARTICLE SPECTROSCOPY	2019/02/18
2019/01379	ANTIGEN BINDING PROTEIN AGAINST HER3	2019/03/05
2019/01402	NEISSERIA MENINGITIDIS VACCINE	2019/03/06
2019/01536	NICOTINAMIDE RIBOSIDE AND PTEROSTILBENE COMPOSITIONS AND METHODS FOR TREATMENT OF NEURODEGENERATIVE DISORDERS	2019/03/12
2019/01564	METHODS FOR BIOBASED DERIVATIZATION OF CELLULOSIC SURFACES	2019/03/13
2019/01657	SYSTEMS, METHODS, AND APPARATUS FOR AGRICULTURAL MATERIAL APPLICATION	2019/03/18
2019/01787	COMBUSTION CHAMBER HOT FACE REFRACTORY LINING	2019/03/22
2019/03010	LOW-VOLTAGE CIRCUIT BREAKER DEVICE	2019/05/14
2019/03982	STRUCTURE FOR BALLISTIC PROTECTION OF VEHICLES IN GENERAL AND METHOD FOR THE PRODUCTION THEREOF	2019/06/19
2019/05673	ALPHA-AMYLASE VARIANTS	2019/08/28
2019/06822	INDOLE AHR INHIBITORS AND USES THEREOF	2019/10/16
2019/08355	DOSAGE REGIMES FOR THE ADMINISTRATION OF GLUCAGON-LIKE-PEPTIDE-2 (GLP-2) ANALOGUES	2019/12/13
2019/08550	PHARMACEUTICAL COMPOSITIONS	2019/12/20
2020/00036	MICROBIAL COMPOSITIONS	2020/01/02
2020/00316	CONVERGENT X-RAY IMAGING DEVICE AND METHOD	2020/01/16
2020/00520	A MODULAR DISTRIBUTION BOX FOR CABLES	2020/01/27
2020/00701	PHARMACEUTICALLY ACCEPTABLE	2020/02/03

Application Number	Patent Title	Filing Date
	SALTS OF POLYPEPTIDES AND USE THEREOF	
2020/00742	POLYMER PROTEIN MICROPARTICLES	2020/02/05
2020/00935	METHODS AND MATERIALS FOR ASSESSING AND TREATING CANCER	2020/02/13
2020/00961	ANTIGEN BINDING PROTEINS BINDING TO 5T4 AND 4-1BB AND RELATED COMPOSITIONS AND METHODS	2020/02/14
2020/01001	A METHOD FOR GENERATING SYNTHESIS GAS FOR AMMONIA PRODUCTION	2020/02/17
2020/01019	TRANSIENT SILENCING OF ARGONAUTE1 AND ARGONAUTE4 TO INCREASE RECOMBINANT PROTEIN EXPRESSION IN PLANTS	2020/02/18
2020/01064	DEVICES AND METHODS FOR PREPARING AND ADMINISTERING A NUTRITIONAL FORMULA	2020/02/19
2020/01078	SWEETENING AND TASTE-MASKING COMPOSITIONS, PRODUCTS AND USES THEREOF	2020/02/20
2020/01112	DYNAMIC HUMAN ANTIBODY LIGHT CHAIN LIBRARIES	2020/02/21
2020/01114	DYNAMIC HUMAN HEAVY CHAIN ANTIBODY LIBRARIES	2020/02/21
2020/01167	GLUCAGON-LIKE PEPTIDE 1 RECEPTOR AGONISTS AND USES THEREOF	2020/02/25
2020/01169	ELECTRONIC PROXY VOTING SYSTEMS AND METHODS	2020/02/25
2020/01211	SYSTEM, METHOD AND APPARATUS FOR A MONITORING DRONE	2020/02/26
2020/01324	GENETIC KNOCKOUTS IN WOOD-LJUNGDAHL MICROORGANISMS	2020/02/28
2020/01513	FLUOROPHENYL BETA-HYDROXYETHYLAMINES AND THEIR USE IN THE TREATMENT OF HYPERGLYCAEMIA	2020/03/10
2020/01705	QUANTITATIVE ULTRASOUND IMAGING BASED ON SEISMIC FULL WAVEFORM INVERSION	2020/03/18
2020/01791	METHOD AND SYSTEM FOR DISPENSING A LIQUID	2020/03/20
2020/02668	TEST KITS AND ASSAYS	2020/05/12
2020/03439	MAIZE EVENT MON87429 AND METHODS OF USE THEREOF	2020/06/09
2020/04407	A SPRAY APPARATUS FOR A VEHICLE	2020/07/17

Application Number	Patent Title	Filing Date
2020/04593	A SYSTEM AND METHOD FOR MAINTAINING A FRAUD RISK PROFILE IN A FRAUD RISK ENGINE	2020/07/24
2020/05437	AMINO ACID COMPOUNDS AND METHODS OF USE	2020/08/31
2020/05558	METHOD OF PROCESSING A BIO-BASED MATERIAL AND APPARATUS FOR PROCESSING THE SAME	2020/09/08
2020/06094	POSITIONING METHOD AND RELATED DEVICE	2020/10/01
2020/06368	SEED DELIVERY APPARATUS, SYSTEMS, AND METHODS	2020/10/14
2020/06439	PYRAZO-TETRAHYDROISOQUINOLINE DERIVATIVES AS DOPAMINE D1 RECEPTOR POSITIVE MODULATORS	2020/10/16
2020/06535	PHARMACEUTICAL COMPOSITION COMPRISING SALBUTAMOL	2020/10/21
2020/07135	PLANT PRODUCED PORCINE CIRCOVIRUS PSEUDOVIRION	2020/11/16
2020/07164	AZABENZIMIDAZOLE COMPOUNDS AND PHARMACEUTICAL	2020/11/17
2020/07379	METHODS AND COMPOSITIONS FOR PERTUSSIS DIAGNOSIS	2020/11/26
2020/07451	REAL-TIME DATA ACQUISITION AND RECORDING DATA SHARING SYSTEM	2020/11/30
2020/07453	METHODS AND DEVICES FOR CODING AND DECODING A DATA STREAM REPRESENTING AT LEAST ONE IMAGE	2020/11/30
2020/07504	MATURATION SYSTEM AND METHOD	2020/12/02
2020/07674	METHODS AND DEVICES FOR CODING AND DECODING A DATA STREAM REPRESENTING AT LEAST ONE IMAGE	2020/12/09
2020/07678	PHARMACEUTICAL COMBINATION, COMPOSITION AND COMBINATION FORMULATION CONTAINING GLUCOKINASE ACTIVATOR AND K-ATP CHANNEL BLOCKER, PREPARATION METHOD THEREOF AND USE THEREOF	2020/12/09
2020/07681	PHARMACEUTICAL COMBINATION, COMPOSITION AND COMBINATION FORMULATION COMPRISING GLUCOKINASE ACTIVATOR AND DPP-IV INHIBITOR, AND PREPARATION METHOD AND USE THEREOF	2020/12/09

Application Number	Patent Title	Filing Date
2020/07959	LOW PRESSURE HYDROCRACKING PROCESS FOR THE PRODUCTION OF A HIGH YIELD OF MIDDLE DISTILLATES FROM A HIGH BOILING HYDROCARBON FEEDSTOCK	2020/12/18
2021/00040	AEROSOLISABLE FORMULATION	2021/01/04
2021/00180	SYSTEMS AND METHODS FOR CENTERING A CIRCULAR OBJECT	2021/01/11
2021/00339	SWEETENING COMPOSITIONS	2021/01/18
2021/00967	A RECOIL COMPENSATION BALLISTICS BENCH	2021/02/12
2021/01024	INSECTICIDAL PROTEINS AND METHODS FOR THEIR USE	2021/02/15
2021/01093	INJECTION SYSTEMS, INJECTION TOOLS AND METHODS FOR SAME	2021/02/17
2021/01151	A CASH DEPOSITING AND DISPENSING MACHINE AND A METHOD FOR ACCESSING A CASH DEPOSITING AND DISPENSING MACHINE	2021/02/19
2021/01153	MINIATURIZED HAIRPIN RNAI TRIGGERS (MXRNA) AND METHODS OF USES THEREOF	2021/02/19
2021/01289	SOLID-STATE CATALYSTS FOR LOW OR MODERATE TEMPERATURE LEACH APPLICATIONS AND METHODS THEREOF	2021/02/25
2021/01298	MULTI-TARGETING NUCLEIC ACID CONSTRUCTS COMPOSED OF MULTIPLE OLIGONUCLEOTIDES THAT MODULATE GENE EXPRESSION THROUGH COMPLIMENTARY INTERACTIONS WITH TARGETS	2021/02/25
2021/01325	ANTI-IFNAR1 ANTIBODIES FOR TREATING AUTOIMMUNE DISEASE	2021/02/25
2021/01376	TERTIARY AMINO LIPIDATED CATIONIC PEPTIDES FOR NUCLEIC ACID DELIVERY	2021/02/26
2021/01465	LIPID NANOPARTICLE FORMULATIONS COMPRISING LIPIDATED CATIONIC PEPTIDE COMPOUNDS FOR NUCLEIC ACID DELIVERY	2021/03/03
2021/01495	CHIMERIC ANTIGEN RECEPTOR	2021/03/04
2021/01688	PHARMACEUTICAL COMPOSITIONS SUITABLE FOR ARTICULAR DELIVERY AND USE THEREOF IN TREATMENT OF JOINT PAIN	2021/03/12
2021/01755	MEDICINAL COMPOSITION	2021/03/16

Application Number	Patent Title	Filing Date
	CONTAINING MONOCLONAL ANTIBODY OR ANTIBODY FAB FRAGMENT THEREOF, AND USE THEREOF	
2021/01796	DEVICE AND METHOD FOR LOADING TAMPON APPLICATORS WITH TAMPONS	2021/03/17
2021/01977	CELLULOSIC FIBER PROCESSING	2021/03/24
2021/01978	CATALYST FOR ASYMMETRIC HYDROGENATION OF COMPOUND CONTAINING CARBON DOUBLE BOND	2021/03/24
2021/02053	GENETICALLY ENGINEERED BACTERIUM COMPRISING ENERGY-GENERATING FERMENTATION PATHWAY	2021/03/26
2021/02071	USE OF SOLUBLE TREM-1 LEVELS FOR IDENTIFYING SUBJECTS SUSCEPTIBLE TO RESPOND TO AN ANTI-INFLAMMATORY THERAPY	2021/03/26
2021/02097	AEROSOL-GENERATING ARTICLE WITH VENTILATED HOLLOW SEGMENT	2021/03/29
2021/02098	AEROSOL GENERATING ARTICLE WITH LIGHT HOLLOW SEGMENT	2021/03/29
2021/02158	COMPOSITIONS AND METHODS FOR THE TREATMENT OF VIRAL INFECTIONS	2021/03/30
2021/02202	ANDROGEN RECEPTOR MODULATORS AND METHODS FOR THEIR USE	2021/03/31
2021/02512	NEW USES OF A 5-HT4 RECEPTOR AGONIST	2021/04/16
2021/02987	AN ENCAPSULATED DYE COMPOSITION AND A METHOD FOR PREPARATION THEREOF	2021/05/04
2021/03476	HEATING ELEMENT AND HEATER ASSEMBLIES, CARTRIDGES, AND E-VAPOR DEVICES INCLUDING A HEATING ELEMENT	2021/05/21
2021/03626	IMPROVEMENTS RELATING TO FUEL ECONOMY	2021/05/27
2021/04492	BRAKE CONTROL SYSTEM	2021/06/29
2021/04809	QUANTITATION AND IDENTIFICATION OF DIMERS IN CO-FORMULATIONS	2021/07/09
2021/05596	DATA PROCESSING SYSTEM AND METHOD	2021/08/10
2021/05598	SYSTEM AND METHOD FOR VIRTUALLY BROADCASTING FROM WITHIN A VIRTUAL ENVIRONMENT	2021/08/10
2021/05599	SYSTEM AND METHOD FOR THE	2021/08/10

Application Number	Patent Title	Filing Date
	DELIVERY OF APPLICATIONS WITHIN A VIRTUAL ENVIRONMENT	
2021/05600	SYSTEM AND METHOD TO PROVISION CLOUD COMPUTING-BASED VIRTUAL COMPUTING RESOURCES WITHIN A VIRTUAL ENVIRONMENT	2021/08/10
2021/05602	SPATIALLY-AWARE MULTIMEDIA ROUTER SYTEM AN METHOD	2021/08/10
2021/05603	SPATIAL VIDEO-BASED PRESENCE	2021/08/10
2021/07216	VERIFIABLE ACCESS CREDENTIAL	2021/09/27
2021/08534	ANTIBODY DRUG CONJUGATES	2021/11/02
2021/08675	REACTIVE ELECTROCHEMICAL MEMBRANE FOR WASTEWATER TREATMENT	2021/11/05
2021/09072	VALVE POSITION INDICATOR WITH LEDS	2021/11/15
2021/09261	MOLECULES HAVING CERTAIN PESTICIDAL UTILITIES, AND INTERMEDIATES, COMPOSITIONS, AND PROCESSES RELATED THERETO	2021/11/18
2021/09578	VERTICAL LIGHT-EMITTING DIODE	2021/11/25
2021/09592	ELECTRODE ASSEMBLY FOR ELECTROCHEMICAL PROCESSES AND METHOD OF RESTORING THE SAME	2021/11/25
2021/09771	METHOD FOR ENCODING AND METHOD FOR DECODING A LUT AND CORRESPONDING DEVICES	2021/11/30
2021/10123	NON-HUMAN ANIMAL EXHIBITING DIMINISHED UPPER AND LOWER MOTOR NEURON FUNCTION AND SENSORY PERCEPTION	2021/12/08
2021/10685	TREATMENTS OF HEREDITARY ANGIOEDEMA	2021/12/20
2022/00660	PROCESS FOR THE PREPARATION OF RIDINILAZOLE AND CRYSTALLINE FORMS THEREOF	2022/01/13
2022/00963	METHOD AND DEVICE FOR REPLACING SLEEVES LINING NUCLEAR REACTOR PRESSURE VESSEL TUBES FROM THE LOWER END	2022/01/20
2022/01155	CUPTSM FOR THE TREATMENT OF NEURODEGENERATIVE DISORDERS	2022/01/25
2022/01322	PHARMACEUTICAL COMPOSITION COMPRISING ENSIFENTRINE	2022/01/27
2022/01423	REMOVAL DEVICE FOR REMOVING A TUBULAR KNITTED MANUFACTURE FROM A CIRCULAR	2022/01/31

Application Number	Patent Title	Filing Date
	KNITTING MACHINE FOR HOSIERY OR THE LIKE	
2022/01424	REFERENCE PICTURE RESAMPLING WITH SWITCHABLE FILTERS	2022/01/31
2022/01469	CONTINUOUS PROCESS FOR PREPARING THE CRYSTALLINE FORM II OF SOTAGLIFLOZIN	2022/02/01
2022/01470	PROCESS FOR PREPARING THE CRYSTALLINE FORM II OF SOTAGLIFLOZIN	2022/02/01
2022/01505	BIS-[N-((5-CARBAMOYL)-1H-BENZO[D]IMIDAZOL-2-YL)-PYRAZOL-5-CARBOXAMIDE] DERIVATIVES AND RELATED COMPOUNDS AS STING (STIMULATOR OF INTERFERON GENES) AGONISTS FOR THE TREATMENT OF CANCER	2022/02/02
2022/01572	COMPACT ALUMINIUM ALLOY HEAT TREATMENT METHOD	2022/02/04
2022/01610	TOBACCO LEAF EXTRACT AND USE THEREOF FOR THE TREATMENT OF TOBACCO ADDICTION	2022/02/07
2022/01797	COUNTER-ROTATING DIFFERENTIAL ELECTRIC MOTOR ASSEMBLY	2022/02/10
2022/01891	CYANIDE ON DEMAND	2022/02/14
2022/01953	PROCESS TO MAKE CALCIUM OXIDE OR ORDINARY PORTLAND CEMENT FROM CALCIUM BEARING ROCKS AND MINERALS	2022/02/15
2022/01974	DEVICES AND METHODS FOR THE PREPARATION OF A NUTRITIONAL FORMULA	2022/02/16
2022/02127	NEF-CONTAINING T CELLS AND METHODS OF PRODUCING THEREOF	2022/02/18
2022/02178	PROCESS FOR THE PREPARATION OF A MEDICAMENT CONTAINING AN OXEPANE RING	2022/02/21
2022/02179	SCREENING DEVICE	2022/02/21
2022/02245	QUINOLINE DERIVATIVES AS PROTEIN KINASE INHIBITORS	2022/02/22
2022/02319	ORAL PHARMACEUTICAL COMPOSITION	2022/02/23
2022/02320	ORAL PHARMACEUTICAL COMPOSITION CONTAINING HETEROCYCLIC COMPOUND	2022/02/23
2022/02325	SOLID STATE FORMS OF (S)-2-(((S)-6,8-DIFLUORO-1,2,3,4-	2022/02/23

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	TETRAHYDRONAPHTHALEN-2-YL)AMINO)-N-(1-(2-METHYL-1-(NEOPENTYLAMINO)PROPAN-2-YL)-1H-IMIDAZOL-4-YL)PENTANAMIDE AND USES THEREOF	
2022/02363	ANTIBODIES AGAINST ILT2 AND USE THEREOF	2022/02/24
2022/02880	REDUCING FRICTION IN COMBUSTION ENGINES THROUGH FUEL ADDITIVES	2022/03/09
2022/02981	WEAR PART FOR AN ARC TORCH AND PLASMA TORCH, ARC TORCH AND PLASMA TORCH COMPRISING SAME, METHOD FOR PLASMA CUTTING AND METHOD FOR PRODUCING AN ELECTRODE FOR AN ARC TORCH AND PLASMA TORCH	2022/03/11
2022/03144	TREATMENT OF CHRONIC GRANULOMATOUS DISEASE	2022/03/16
2022/03202	MONOCYCLIC AGONISTS OF STIMULATOR OF INTERFERON GENES STING	2022/03/17
2022/03203	BICYCLIC AGONISTS OF STIMULATOR OF INTERFERON GENES STING	2022/03/17
2022/03240	ALPHA-V BETA-6 INTEGRIN LIGANDS AND USES THEREOF	2022/03/18
2022/03409	METHOD FOR SEPARATING DISODIUM 5'-INOSINATE	2022/03/23
2022/03627	NK ENGAGER COMPOUNDS THAT BIND VIRAL ANTIGENS AND METHODS OF USE	2022/03/29
2022/03877	HEAT RECEIVER FOR URBAN CONCENTRATED SOLAR POWER	2022/04/05
2022/04988	SECONDARY BELT CLEANER WITH MODULAR, TORSIONAL TENSIONED ARM AND REPLACEABLE BLADE TIPS	2022/05/06
2022/05343	APPARATUS AND METHOD FOR IMPROVING VERTICAL FLOW REACTOR UTILITY	2022/05/13
2022/05351	AN EMOTION PREDICTION SYSTEM USING NAVARASA AND A METHOD THEREOF	2022/05/13
2022/05373	METHOD FOR EVALUATING HAIR FIBERS	2022/05/16
2022/05422	FIRE STARTER	2022/05/17
2022/05500	PROCESS FOR THE REGENERATION OF HYDROCHLORIC ACID PICKLE LIQUORS	2022/05/18

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2022/05582	TRICYCLIC COMPOUNDS	2022/05/20
2022/05593	DATA BREACH SYSTEM AND METHOD	2022/05/20
2022/06301	METHOD FOR EVALUATING HAIR FIBERS	2022/06/07
2022/08032	TRANSFORM-BASED IMAGE CODING METHOD AND DEVICE THEREFOR	2022/07/19
2022/08658	OPERATOR ASSISTANCE SYSTEM FOR WORK MACHINE	2022/08/03
2022/08718	TRANSFORMER MONITORING DEVICE, AND SYSTEM INCLUDING SAME	2022/08/04
2022/08797	CELL ISOLATION DEVICE AND METHOD	2022/08/05
2022/08919	PROCESS FOR RECLAMATION OF POLYESTER BY REACTOR ADDITION	2022/08/10
2022/09204	SYSTEM FOR, AND METHOD OF, FACILITATING A TRANSACTION BETWEEN A REQUESTING PARTY AND ONE OR MORE USERS	2022/08/17
2022/09476	Filter	2022/08/24
2022/09500	INTEGRATED HEAT EXCHANGER AND SOUR WATER STRIPPER	2022/08/25
2022/09501	PARALLEL FLOW EXPANSION FOR PRESSURE AND SUPERHEAT CONTROL	2022/08/25
2022/09961	MONITORING MINE INSTALLATIONS	2022/09/07
2022/10318	USE OF A THIENOPYRIDONE DERIVATIVE IN THE TREATMENT OF AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE (ADPKD)	2022/09/16
2022/10516	PROTECTIVE HEADGEAR	2022/09/22
2022/10614	AEROSOL-GENERATING ARTICLE WITH IMPROVED CONFIGURATION	2022/09/26
2022/10653	TILE PANEL, SURFACE COVERING OF A MULTITUDE OF SUCH TILE PANELS FOR A FLOOR, CEILING OR WALL SURFACE	2022/09/26
2022/10765	CONSUMABLE MONITORING SYSTEM	2022/09/29
2022/10767	RUN FLAT DEVICE	2022/09/29
2022/10768	CONTAINERISED EGG LAYER SYSTEM	2022/09/29
2022/10866	SOLID PHARMACEUTICAL FORMS OF TERIFLUNOMIDE	2022/10/03
2022/11111	SELF-CLEANING DRAIN SUMP	2022/10/11
2022/11315	USE OF CANNABIDIOL IN TREATING ANTI-DEPRESSANT-INDUCED FEMALE SEXUAL	2022/10/14

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	DYSFUNCTION	
2022/12283	CONCOMITANT ADMINISTRATION OF GLUCOCORTICOID RECEPTOR MODULATOR RELACORILANT AND PACLITAXEL, A DUAL SUBSTRATE OF CYP2C8 AND CYP3A4	2022/11/10
2022/12462	COLD-RESISTANT DATA TRANSMISSION CABLE	2022/11/15
2022/12508	SLIDE GATE ON THE SPOUT OF A METALLURGICAL VESSEL	2022/11/16
2022/12967	IMIDAZOPYRIDAZINES AS MODULATORS OF IL-17	2022/11/29
2022/13105	METHOD OF MODIFYING A YEAST STRAIN, MODIFIED YEAST STRAINS OBTAINED THEREBY AND USES THEREOF	2022/12/02
2022/13175	ANTI-CANCER PROTEINS	2022/12/05
2022/13313	ANTIMICROBIAL AGENT FOR NON-HUMAN ANIMAL	2022/12/08
2022/13372	SAFETY SOCKET MODULE, AND POWER STRIP AND MOBILE CABLE REEL COMPRISING SAFETY SOCKET MODULE	2022/12/09
2022/13547	ELECTRONIC PADLOCK	2022/12/14
2022/13594	MODIFIED AEROSOL-GENERATING ARTICLE WITH FLAME RETARDANT WRAPPER	2022/12/15
2022/13765	PROCYANIDINS FOR THE TREATMENT OF ENDOTHELIAL DYSFUNCTION TRIGGERED BY COVID-19	2022/12/20
2022/13830	SYSTEMS AND METHODS FOR MOBILE DEVICE ANALYSIS OF NUCLEIC ACIDS AND PROTEINS	2022/12/21
2022/13858	BIOLOGICAL AND ALGAE HARVESTING AND CULTIVATION SYSTEMS AND METHODS	2022/12/21
2022/13938	CONFIGURING A WIRELESS DEVICE CONFIGURED WITH MULTI-RADIO ACCESS TECHNOLOGY DUAL CONNECTIVITY	2022/12/22
2023/00174	EXTRACELLULAR VESICLES (EVS) DERIVED FROM MESENCHYMAL STROMAL CELLS AND METHOD FOR OBTAINING SAID EVS	2023/01/03
2023/00255	A CUTTING AND LAYING AID FOR CUTTING AND LAYING FLOORBOARDS IN A HERRINGBONE PATTERN	2023/01/05
2023/00314	METHOD FOR THE TREATMENT OF PLASTIC PYROLYSIS OILS INCLUDING SINGLE-STAGE	2023/01/06

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	HYDROCRACKING	
2023/00601	BIOSTIMULANT BASED ON BACTERIA FOR BETTER ADAPTATION OF PLANTS TO HYDRIC AND OSMOTIC STRESSES	2023/01/13
2023/00618	NATURAL SOLUTION LANGUAGE	2023/01/13
2023/00832	FLUOROMETER CALIBRATION DEVICE AND METHOD	2023/01/18
2023/00866	RAIL TRANSPORT OVER-UNDER BYPASS SYSTEM FOR CONVEYING BULK MATERIALS	2023/01/19
2023/00961	CARBONDISULFIDE DERIVED ZWITTERIONS	2023/01/23
2023/01266	FOUNDATION, APPARATUS AND METHOD FOR PRODUCING THE SAME	2023/01/31
2023/01272	APPARATUS AND METHOD OF TREATING SOIL	2023/01/31
2023/01309	METHODS FOR ASSESSING THE RISK OF DEVELOPING PROGRESSIVE MULTIFOCAL LEUKOENCEPHALOPATHY CAUSED BY JOHN CUNNINGHAM VIRUS BY GENETIC TESTING	2023/02/01
2023/01317	A MOULDING APPARATUS AND METHOD	2023/02/01
2023/01318	ELECTRODE WITH ENHANCED SHUTDOWN TOLERANCE	2023/02/01
2023/01319	A COMPRESSION MOULDING METHOD AND APPARATUS	2023/02/01
2023/01320	ELECTRODE FOR GAS EVOLUTION IN ELECTROLYTIC PROCESSES	2023/02/01
2023/01350	METHOD OF DETERMINING MINIMUM CRITICALITY ACCIDENT SOURCE TERM	2023/02/02
2023/01351	IMAGE ENCODING/DECODING METHOD AND DEVICE	2023/02/02
2023/01363	ENTECAVIR MONOPHOSPHATE ALANINAMIDE PHENOLIC ESTER AND MEDICAL USE THEREOF	2023/02/02
2023/01380	CAP MADE OF PAPER	2023/02/02
2023/01381	METHODS AND SYSTEMS FOR ELECTRIFYING, DECARBONIZING, AND REDUCING ENERGY DEMAND AND PROCESS CARBON INTENSITY IN INDUSTRIAL PROCESSES VIA INTEGRATED VAPOR COMPRESSION	2023/02/02
2023/01382	METHODS AND SYSTEMS FOR OPTIMIZING MECHANICAL VAPOR COMPRESSION AND/OR THERMAL VAPOR COMPRESSION WITHIN	2023/02/02

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	MULTIPLE-STAGE PROCESSES	
2023/01443	CLEVIS-ENDED SUSPENSION STRUT MANUFACTURED WITHOUT WELDS	2023/02/03
2023/01448	METHOD AND SYSTEM FOR DETERMINING A TARGET COURSE OF A TRACK FOR POSITION CORRECTION	2023/02/03
2023/01449	COMPOUND FOR TARGETING AND DEGRADING PROTEIN, AND PREPARATION METHOD THEREFOR AND USE THEREOF	2023/02/03
2023/01451	AUTOMATIC NODE FUNGIBILITY BETWEEN COMPUTE AND INFRASTRUCTURE NODES IN EDGE ZONES	2023/02/03
2023/01453	ALUMINIUM MATERIAL AND PROCESS FOR PRODUCING AN ALUMINIUM MATERIAL	2023/02/03
2023/01499	DETERGENT COMPOSITION COMPRISING ISETHIONATE SURFACTANT	2023/02/06
2023/01526	SIMULTANEOUS NITRIFICATION/DENITRIFICATION (SNDN) IN SEQUENCING BATCH REACTOR APPLICATIONS	2023/02/07
2023/01533	USE OF BENZISOSELAZOLE DERIVATIVE FOR ANTI-CORONAVIRUS AND CONTROL OF INTERSTITIAL LUNG DISEASE (ILD) RELATED TO CORONAVIRUS	2023/02/07
2023/01536	A DISPENSABLE FOOD CONTAINER	2023/02/07
2023/01600	ARRANGEMENT FOR DISPENSING THE CONTENTS OF A PACKET	2023/02/08
2023/01602	MULTI-SPEED REAR DRIVE FOR A BICYCLE	2023/02/08
2023/01604	SECURITY DEVICE	2023/02/08
2023/01623	METHOD AND APPARATUS FOR GENERATING FROM A COEFFICIENT DOMAIN REPRESENTATION OF HOA SIGNALS A MIXED SPATIAL/COEFFICIENT DOMAIN REPRESENTATION OF SAID HOA SIGNALS	2023/02/09
2023/01624	ANNULAR CATALYST CARRIER CONTAINER FOR USE IN A TUBULAR REACTOR	2023/02/09
2023/01638	HYDROTHERMAL PURIFICATION PROCESS	2023/02/09
2023/01649	QUINOLINE COMPOUNDS AS SELECTIVE AND/OR DUAL	2023/02/09

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	MODULATORS OF BILE ACID RECEPTORS AND LEUKOTRIENE CYSTEINYL RECEPTORS	
2023/01672	INHIBITORS OF CYCLIN-DEPENDENT KINASE 7 (CDK7)	2023/02/10
2023/01698	WATERCRAFT SYSTEM INCLUDING WATER AND/OR AIR PASSAGEWAYS	2023/02/10
2023/01699	PROTECTIVE FACE MASK	2023/02/10
2023/01787	SINGLE-SERVE CAPSULE MAIN BODY AND SINGLE-SERVE CAPSULE FOR A BEVERAGE PREPARATION MACHINE AND ASSOCIATED METHOD	2023/02/14
2023/01858	OXYGEN STORAGE CAPACITY ENHANCED COMPOSITIONS	2023/02/15
2023/01860	USE OF THIAZOLIDES AGAINST CORONAVIRUSES	2023/02/15
2023/01861	METHODS OF PREPARING MODIFIED DOSAGE FORMS AND RELATED COMPONENTS	2023/02/15
2023/01915	PRESERVATIVE SYSTEMS AND COMPOSITIONS COMPRISING THE SAME	2023/02/16
2023/01919	SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF	2023/02/16
2023/01921	MOISTURIZING ANTIBACTERIAL COMPOSITION	2023/02/16
2023/01922	FLAPPER VALVE FOR PERCUSSION DRILL TOOLS	2023/02/16
2023/01973	CELL LYSIS SYSTEMS AND METHODS	2023/02/17
2023/02076	OPEN IMPELLER FOR SUBMERGIBLE PUMP CONFIGURED FOR PUMPING LIQUID COMPRISING ABRASIVE MATTER	2023/02/20
2023/02079	MULTISTAGE CENTRIFUGAL COMPRESSOR	2023/02/20
2023/02080	METHOD FOR CALIBRATION OF TRANSCUTANEOUS NERVE STIMULATOR	2023/02/20
2023/02131	SYSTEM FOR PREHEATING GLASS MELTING FURNACE BATCH MATERIALS	2023/02/21
2023/02155	INTERFERON-BASED CANCER TREATMENT METHOD AND PHARMACEUTICAL COMPOSITION	2023/02/21
2023/02158	ANTI-PAR-2 ANTIBODIES AND METHODS OF USE THEREOF	2023/02/21
2023/02161	MOISTURIZING ANTIBACTERIAL	2023/02/21

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	COMPOSITION	
2023/02162	MOISTURIZING ANTIBACTERIAL COMPOSITION	2023/02/21
2023/02276	METHODS AND COMPOSITIONS FOR TREATING CORONAVIRUS INFECTIONS	2023/02/22
2023/02277	INDUSTRIAL OIL COMPOSITION	2023/02/22
2023/02279	COMPOSITION	2023/02/22
2023/02396	GENERATING AND PROCESSING VIDEO DATA	2023/02/23
2023/02402	DUMP BODY FOR HAUL TRUCK	2023/02/23
2023/02511	DEVICE FOR DISTRIBUTING MINERALIZED WATER AND ASSOCIATED METHOD	2023/02/24
2023/02554	NOVEL COMPOUNDS HAVING INHIBITORY ACTIVITY ON PROSTAGLANDIN E2 RECEPTOR AND USES THEREOF	2023/02/24
2023/02556	ULTRAVIOLET-ABSORPTIVE NANOPARTICLES AND MICROPARTICLES FOR INTRADERMAL USE	2023/02/24
2023/02558	SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF	2023/02/24
2023/02559	SECURITY DEVICES AND METHODS OF MANUFACTURE THEREOF	2023/02/24
2023/02560	AUTOMATIC SYSTEM FOR THE CONSERVATION OF OXYGEN AND OTHER SUBSTANCES	2023/02/24
2023/02893	AGONISTS OF STIMULATOR OF INTERFERON GENES STING	2023/02/27
2023/03182	LOCKING DETECTION DEVICE	2023/02/28
2023/03358	MAXIMIZATION OF LIGHT OLEFINS IN FCC PROCESS	2023/03/06
2023/03416	A RECOMBINANT MICROORGANISM FOR PRODUCING L-GLUTAMIC ACID AND A METHOD FOR PRODUCING L-GLUTAMIC ACID USING THE SAME	2023/03/08
2023/03423	FLAKE-LIKE COMPOSITION AND FLAKE-LIKE COMPOSITION PRODUCTION METHOD	2023/03/08
2023/03447	SPIRAL SEPARATOR AND APPARATUS THEREFOR	2023/03/09
2023/03483	TRAINING APPARATUS	2023/03/10
2023/03486	CONVERSION OF SOLID WASTE INTO SYNGAS AND HYDROGEN	2023/03/10
2023/03874	SYSTEM AND METHOD FOR LIVE PARI-MUTUEL WAGERING ON	2023/03/27

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	MULTIPLE PAST EVENTS	
2023/03876	STARCH-BASED AQUEOUS ADHESIVE COMPOSITION	2023/03/27
2023/03893	METHOD FOR TOP SEALING A CARDBOARD TRAY LINED WITH A PLASTIC FOIL AND CARDBOARD TRAY THEREFOR	2023/03/28
2023/03906	LIQUID-STATE PHARMACEUTICAL COMPOSITIONEXHIBITING EXCELLENT PRESERVATIVE EFFECTIVENESS	2023/03/28
2023/03992	INHIBITING HUMAN INTEGRIN ALPHA4BETA7	2023/03/30
2023/04801	CURRENT DETECTION CIRCUIT, CURRENT LEAKAGE DETECTION METHOD, AND CHARGING SYSTEM	2023/04/26
2023/05006	CULTURE SUBSTRATE FOR BURIED SHELLFISH, AND APPLICATION THEREOF IN BURIED SHELLFISH CULTURE	2023/05/05
2023/05067	COATED STEEL SHEET AND HIGH STRENGTH PRESS HARDENED STEEL PART AND METHOD OF MANUFACTURING THE SAME	2023/05/08
2023/05069	COATED STEEL SHEET AND HIGH STRENGTH PRESS HARDENED STEEL PART AND METHOD OF MANUFACTURING THE SAME	2023/05/08
2023/05070	PROCESS AND EQUIPMENT TO LASER CUT VERY HIGH STRENGTH METALLIC MATERIAL	2023/05/08
2023/05071	SHOWER SET WITH CONCEALED HOSE	2023/05/08
2023/05080	NONWOVEN FABRIC COMPRISING FILAMENTARY STRATA	2023/05/08
2023/05081	CORROSION PROTECTION DEVICE, AND METHOD FOR CORROSION-PROTECTED ANCHORING OF AN ANCHOR ELEMENT	2023/05/08
2023/05123	SURFACE MODIFICATION TO REGULATE PLANT GROWTH	2023/05/09
2023/05207	CASTING METHOD AND ASSOCIATED DEVICE	2023/05/11
2023/05221	TUMOR-SPECIFIC CLAUDIN 18.2 ANTIBODY-DRUG CONJUGATES	2023/05/11
2023/05240	COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF	2023/05/12
2023/05245	LOW DENSITY COLD ROLLED AND ANNEALED STEEL SHEET, METHOD OF PRODUCTION THEREOF AND USE OF SUCH STEEL TO PRODUCE	2023/05/12

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	VEHICLE PARTS	
2023/05298	HYDROGEN EMBRITTLEMENT RESISTANCE COATED STEEL	2023/05/15
2023/05327	STEEL WIRE MESH MADE OF STEEL WIRES HAVING HEXAGONAL LOOPS, PRODUCTION DEVICE, AND PRODUCTION METHOD	2023/05/16
2023/05550	THERMAL INVERTER	2023/05/23
2023/05567	SYSTEMS AND METHODS OF MODIFYING A BODY OF FABRIC	2023/05/23
2023/05640	SYSTEM FOR DECENTRALIZED ACQUISITION AND WIRELESS TRANSMISSION OF ACQUIRED DATA FOR USE UNDERGROUND	2023/05/25
2023/06130	ADMIXTURE FOR FLUIDIFYING A CEMENTITIOUS COMPOSITION WITH REDUCED CEMENT CONTENT	2023/06/09
2023/06339	A COMPOSITION AND A METHOD FOR ALLEVIATING SALINITY STRESS IN GROUNDNUT USING ENDOPHYTES AND RHIZOBIUM	2023/06/19
2023/06596	SYSTEM FOR CONFINING AND COOLING MELT FROM THE CORE OF A NUCLEAR REACTOR	2023/06/27
2023/06822	SALT CORE CLAMPING AND PLACING DEVICE WITH DUST BLOWING-OFF STRUCTURE	2023/07/04
2023/06822	SALT CORE CLAMPING AND PLACING DEVICE WITH DUST BLOWING-OFF STRUCTURE	2023/07/04
2023/06901	IONIZABLE LIPIDS	2023/07/07
2023/06953	METHOD FOR REDUCTIVE EXTRACTION OF IRIDIUM, RHODIUM AND/OR RUTHENIUM	2023/07/10
2023/07014	PHARMACEUTICAL COMBINATIONS OF SOS1 INHIBITORS FOR TREATING AND/OR PREVENTING CANCER	2023/07/11
2023/07395	COMPOSITE CROSSARM AND POWER TRANSMISSION TOWER	2023/07/25
2023/07680	PROBABILISTIC EVALUATION OF FASTENER DEGRADATION IN NUCLEAR POWER PLANTS	2023/08/03
2023/08017	BARBEQUE ARRANGMENT	2023/08/18
2023/08381	ANTIMICROBIAL ESSENTIAL OIL COMPOSITION, PRODUCT COMPRISING SAME, AND PREPARATION METHOD FOR PRODUCT THEREOF	2023/08/30
2023/08631	CONTAINER CLOSURE WITH TAMPER-EVIDENT RING, AND	2023/09/08

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	METHOD FOR ASSEMBLING A CONTAINER CLOSURE OF THIS KIND	
2023/08656	A SYSTEM TO COMPARE VARIOUS QUANTUM CRYPTOGRAPHY PROTOCOLS UNDER NOISY CONDITIONS	2023/09/11
2023/08680	TEXTURED EDIBLE PROTEIN PRODUCT DERIVED FROM INSECT LARVAE OR WORMS	2023/09/11
2023/08699	PROVIDING COMMUNICATION SERVICES THROUGH I/O USER DEVICES TO A USER	2023/09/12
2023/08718	METHOD FOR PREVENTIVE TREATMENT OF A PLANT	2023/09/12
2023/09028	A SYSTEM TO STRENGTHEN QUANTUM CRYPTOGRAPHY SECURITY	2023/09/26
2023/09037	AN ACCESSORY FOR A VEHICLE	2023/09/26
2023/09039	MANAGING REMOTE TERMINAL COMMUNICATIONS	2023/09/26
2023/09040	FILTER FOR INFUSION MEDICAL LINES	2023/09/26
2023/09041	METHOD AND PLANT FOR PRODUCING ONE OR MORE ELECTROLYSIS PRODUCTS	2023/09/26
2023/09042	DUST SUPPRESSION RESIN AND RESIN USE	2023/09/26
2023/09095	COMMUNICATION DEVICE AND COMMUNICATION METHOD	2023/09/27
2023/09115	POLYMORPHIC FORMS OF COMPOUND AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2023/09/27
2023/09150	ANTIBODY AGAINST NKP46 AND APPLICATION OF ANTIBODY	2023/09/28
2023/09166	DEVICE AND METHOD FOR DETECTING AN ELECTRONIC DEVICE LOCATION	2023/09/29
2023/09191	AGRICULTURAL FORMULATIONS	2023/09/29
2023/09192	PROCESS FOR AMMONIA SYNTHESIS USING GREEN HYDROGEN	2023/09/29
2023/09195	MICROBIOCIDAL QUINOLINE/QUINOXALINE BENZOTHIAZINE DERIVATIVES	2023/09/29
2023/09197	INCREASED TRANSFORMABILITY AND HAPLOID INDUCTION IN PLANTS	2023/09/29
2023/09211	MAN HOLE COVER	2023/10/02
2023/09227	HB-EGF GENE THERAPY FOR DIABETES	2023/10/02

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2023/09234	Underground airflow control system and method	2023/10/03
2023/09290	MICROBIOCIDAL QUINOLINE/QUINOXALINE ISOQUINOLINE DERIVATIVES	2023/10/04
2023/09299	FLEXOGRAPHIC PRINTING	2023/10/04
2023/09338	CAM GROOVING MACHINE WITH CAM STOP SURFACES	2023/10/06
2023/09364	APPARATUS HAVING A GUIDE UNIT FOR GUIDING A CONVEYOR BELT	2023/10/06
2023/09366	GIP AND GLP-1 DUAL RECEPTOR AGONIST, PHARMACEUTICAL COMPOSITION, AND USE	2023/10/06
2023/09367	OPTICAL-COUPLING NON-CONTACT COMMUNICATION SLIP RING FOR WIND TURBINE	2023/10/06
2023/09416	ANTIVIRUS PROTEINS HAVING A KRINGLE 5 SUBUNIT	2023/10/09
2023/09416	ANTIVIRUS PROTEINS HAVING A KRINGLE 5 SUBUNIT	2023/10/09
2023/09417	A METHOD AND COMPUTER SYSTEM FOR MANAGING PATIENT CONSULTATIONS	2023/10/09
2023/09418	THERAPEUTIC BINDING MOLECULE THAT BINDS TO CCR9	2023/10/09
2023/09446	RAPAMYCIN ANALOGS AND USES THEREOF	2023/10/10
2023/09491	ASEPTIC CONNECTOR FOR FLUID CONDUITS	2023/10/11
2023/09507	TRANSGENIC PLANTS WITH IMPROVED TRAITS	2023/10/11
2023/09517	SOLID FORMS OF A MODULATOR OF HEMOGLOBIN	2023/10/11
2023/09546	AGROCHEMICAL COMPOSITION OF SOLID STATE FORM OF PYROXASULFONE	2023/10/12
2023/09551	COMBINED MICROWAVE PYROLYSIS AND PLASMA METHOD AND REACTOR FOR PRODUCING OLEFINS	2023/10/12
2023/09552	VARIABLE-PITCH INSTALLATION AND DEBUGGING SYSTEM AND OPERATION METHOD THEREOF	2023/10/12
2023/09566	3,4-DIHYDRO-2,7-NAPHTHYRIDINE-1,6(2H,7H)-DIONES AS MEK INHIBITORS	2023/10/12
2023/09567	BINDING MOLECULE AGAINST DLL3 AND USE THEREOF	2023/10/12
2023/09588	FURAN FUSED RING SUBSTITUTED GLUTARIMIDE COMPOUND	2023/10/13
2023/09602	SELF-LEARNING METHOD FOR SEMANTIC FEATURE WITH	2023/10/13

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	MAXIMUM GAP, AND COMPUTER DEVICE AND STORAGE MEDIUM	
2023/09635	A PINCH VALVE ASSEMBLY	2023/10/16
2023/09638	PYRIMIDINE-FUSED CYCLIC COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF	2023/10/16
2023/09639	PHARMACEUTICAL COMPOSITION, AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2023/10/16
2023/09673	DETACHABLY ASSEMBLED FACTORY BUILDING STEEL STRUCTURE	2023/10/17
2023/09674	STRUCTURAL COLUMN PORT-DETACHABLE DEVICE	2023/10/17
2023/09675	FABRICATED REINFORCED CONCRETE FRAME-BENT STRUCTURE FOR FACTORY BUILDING	2023/10/17
2023/09676	METHOD AND SYSTEM FOR CONSTRUCTION OF HIGH FILL SUBGRADE IN MOUNTAINOUS AREA	2023/10/17
2023/09705	COVER TENSIONING APPARATUS AND COVER MOUNTING SYSTEM FOR A VEHICLE BODY	2023/10/18
2023/09724	COEFFICIENT ENCODING/DECODING METHOD, ENCODER, DECODER, AND COMPUTER STORAGE MEDIUM	2023/10/18
2023/09753	THE INVENTION RELATES TO A CHINESE MEDICINE COMPOSITION AND APPLICATION FOR PREVENTION AND TREATMENT OF PESTE PETIT RUMINANT AND ANIMAL VIRAL DISEASES	2023/10/19
2023/09769	CHARGING DEVICE, CHARGING PORT COVER CONTROL DEVICE, CHARGING SYSTEM, AND RELATED METHOD	2023/10/19
2023/09770	CHARGING COVER CONTROL METHOD AND DEVICE FOR ELECTRIC VEHICLE, AND ELECTRIC VEHICLE	2023/10/19
2023/09802	PRESSURE RELIEF VALVE SYSTEM AND PRESSURE RELIEF METHOD	2023/10/20
2023/09825	INFORMATION CONTROL SYSTEM	2023/10/23
2023/09846	PORTABLE FIELD AREA DELINEATION METHOD AND DELINEATION ASSISTIVE DEVICE THEREOF	2023/10/23

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2023/09857	SELECTABLE FLUID COUPLER	2023/10/23
2023/09895	A BLINK CONTROLLED WHEELCHAIR SYSTEM	2023/10/24
2023/09896	AN INTEGRATED WIND AND SOLAR ENERGY HARVESTING EQUIPMENT	2023/10/24
2023/09920	CHARGING CONNECTOR AND CHARGING DEVICE	2023/10/24
2023/09935	THERMAL DISCONNECTION AND INDICATION MECHANISM AND SURGE PROTECTION DEVICE	2023/10/24
2023/09937	CIRCUIT BREAKER	2023/10/24
2023/09945	DISPLAY SCREEN ARRANGEMENT	2023/10/25
2023/09987	CHICKEN COOP TRAILER ARRANGEMENT	2023/10/26
2023/10003	CORRUGATED GREEN SHEETS FOR THE PREPARATION OF LARGE-SIZED CERAMIC SHEETS AND RELATED METHODS AND USES	2023/10/26
2023/10031	A METHOD FOR COMBINING AND CONFIGURING NEW FOAMING AGENTS WITH HIGH SELECTIVITY AND HIGH FOAMING PROPERTIES	2023/10/27
2023/10041	DETECTION DEVICE AND DETECTION METHOD FOR HERBICIDE CONTENT IN GRAIN	2023/10/27
2023/10042	APPARATUS AND METHOD FOR SECUREMENT OF A FLEXIBLE CONDUIT	2023/10/27
2023/10061	ZN-AL-MG PLATED CHECKERED STEEL PLATE	2023/10/27
2023/10064	HERBICIDAL COMPOSITIONS	2023/10/27
2023/10083	METHOD FOR LAYER-BY-LAYER CUMULATIVE AND SYNCHRONOUS LIFTING CONSTRUCTION OF WAVY SPECIAL-SHAPED STEEL STRUCTURE CANOPY	2023/10/30
2023/10084	LARGE-SPAN CONCRETE PRESTRESS STABILITY TESTING SYSTEM AND DISCRIMINATION METHOD	2023/10/30
2023/10134	RESONANCE-BASED INHERENTLY SAFE DRIVE CIRCUIT	2023/10/31
2023/10135	SCHIMA SUPERBA SEEDS COLLECTION DEVICE	2023/10/31
2023/10139	METHOD FOR EXTRACTING FREEZE-AFFECTED AREA OF WINTER WHEAT	2023/10/31
2023/10186	EQUIPMENT AND METHOD FOR PRODUCING A SOIL CONDITIONER BY UTILIZING AGRICULTURAL WASTES	2023/11/01

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2023/10201	FOLDABLE INFLATABLE VEHICLE	2023/11/01
2023/10234	A HEALTH LOGGER AND MONITORING SYSTEM FOR ELECTRONIC APPLIANCES	2023/11/02
2023/10235	AN ARTIFICIAL INTELLIGENCE BASED SMART HELMET	2023/11/02
2023/10253	INCUBATOR TRAY AND A METHOD OF INCUBATING	2023/11/02
2023/10261	A LUMINE SERVER DRIVEN USER INTERFACE LIBRARY	2023/11/03
2023/10262	A THERMAL MANAGEMENT SYSTEM FOR SWITCH MODE POWER SUPPLY BOARD	2023/11/03
2023/10263	AN EDUCATIONAL AUGMENTED REALITY APPLICATION FOR ENHANCING CLASSROOM LEARNING	2023/11/03
2023/10264	AN ARTIFICIAL INTELLIGENCE BASED HEALTH AWARENESS SYSTEM FOR WOMEN	2023/11/03
2023/10265	AN AUDIO CAPTCHA SYSTEM FOR VISUALLY IMPAIRED PEOPLE	2023/11/03
2023/10266	A LOCATION BASED ATTENDANCE MARKING SYSTEM WITH FINGERPRINT AUTHENTICATION	2023/11/03
2023/10267	A PORTABLE DEVICE FOR VIRTUAL ACOUSTIC TESTING OF MATERIALS	2023/11/03
2023/10268	A NURTURANCE APPLICATION FOR PERSONS WITH DISABILITIES	2023/11/03
2023/10269	TEACHING DISPLAY DEVICE FOR HUMAN ANATOMY AND PHYSIOLOGY MODEL	2023/11/03
2023/10280	ANTIBODY-DRUG CONJUGATES COMPRISING HUMANIZED ANTIBODIES TARGETING UROKINASE TYPE PLASMINOGEN ACTIVATOR RECEPTOR ASSOCIATED PROTEIN (UPARAP)	2023/11/03
2023/10303	IN-VITRO CULTURE, INDUCTION, ACTIVATION AND CRYOPRESERVATION METHOD AND CELL BANK ESTABLISHMENT FOR IMMUNE CELLS	2023/11/06
2023/10304	METHOD FOR SCREENING, ACTIVATING, AMPLIFYING AND CRYOPRESERVING MESENCHYMAL STEM CELLS IN VITRO AND ESTABLISHING CELL BANK OF MESENCHYMAL STEM CELLS	2023/11/06
2023/10305	AN INDUCER FOR INDUCING A	2023/11/06

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	MESENCHYMAL STEM CELL TO DIFFERENTIATE INTO AN ISLET CELL	
2023/10306	SERUM-FREE COMPLETE MEDIUM FOR INDUCING DIFFERENTIATION OF MESENCHYMAL STEM CELL TO CORNEAL EPITHELIAL CELL	2023/11/06
2023/10309	ENERGY STORAGE CASE	2023/11/06
2023/10320	ASSET VERIFICATION SYSTEM AND METHODS OF USING SAME	2023/11/06
2023/10352	POSTOPERATIVE ANALGESIC AND HEMOSTATIC DEVICE FOR ANORECTAL NURSING	2023/11/07
2023/10389	METHOD FOR ESTABLISHING MODEL FOR PREDICTING COMPLICATIONS IN NORMAL TISSUES AND ORGANS AFTER TUMOR RADIOTHERAPY	2023/11/08
2023/10390	ISOLATION TYPE FLEXIBLE FAULT CURRENT LIMITER AND CONTROL METHOD THEREOF	2023/11/08
2023/10393	NOVEL STEEL PLATE RADIATOR WITH HIGH HEAT DISSIPATION PERFORMANCE	2023/11/08
2023/10395	SUBSTITUTED INHIBITORS OF MENIN-MLL AND METHODS OF USE	2023/11/08
2023/10436	STABLE CAST-IN-PLACE FORMWORK STRUCTURE FOR SPLAYED PIER BODY TOP	2023/11/09
2023/10437	COCKPIT STRUCTURE FOR AMUSEMENT EQUIPMENT	2023/11/09
2023/10438	DRAINAGE DEVICE FOR HEPATOBILIARY SURGERY	2023/11/09
2023/10439	RECTIFICATION DEVICE FOR IMPROVING RECTIFICATION PURITY	2023/11/09
2023/10440	EXTRACTION DEVICE FOR IMPROVING EXTRACTION EFFICIENCY	2023/11/09
2023/10454	INTELLIGENT CONTENT PUBLICITY SYSTEM	2023/11/09
2023/10469	SHOCKPROOF REINFORCED STRUCTURE	2023/11/10
2023/10477	TOILET SEAT COVER	2023/11/10
2023/10504	IRON-COPPER-CERIUM-BASED COMPOSITE OXYGEN CARRIER FOR CHEMICAL LOOPING COMBUSTION AND PREPARATION METHOD THEREOF	2023/11/13
2023/10505	BORON-PHOSPHORUS COMPOSITE MODIFIED HIGH BELITE SULPHOALUMINATE	2023/11/13

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	CEMENT CLINKER AND PREPARATION METHOD THEREOF	
2023/10506	STORAGE RACK FOR EASY ACCESS OF GARDEN SHEARS	2023/11/13
2023/10507	QUICK-ASSEMBLY INTEGRATED BATHROOM MODULE	2023/11/13
2023/10513	A PAN-KRAS INHIBITOR COMPOUND	2023/11/13
2023/10514	A PAN-KRAS INHIBITOR COMPOUND	2023/11/13
2023/10521	THREE-DIMENSIONAL ORAL IMAGING SYSTEM AND METHOD	2023/11/13
2023/10522	PAINT SPRAYING DEVICE FOR LAMP ACCESSORIES	2023/11/13
2023/10523	AUXILIARY TRIMMING DEVICE FOR LAMP ACCESSORIES	2023/11/13
2023/10549	DESIGN METHOD FOR BIONIC WAVY BLADE TIP CLEARANCE OF CENTRIFUGAL PUMP	2023/11/14
2023/10557	DISPLAY DEVICE FOR COMPUTER APPLICATION TECHNOLOGY TEACHING	2023/11/14
2023/10585	HIGH-TEMPERATURE-RESISTANT AND HIGH-PERFORMANCE CONCRETE AND PREPARATION METHOD THEREOF	2023/11/15
2023/10587	COMPOUND FRUCTUS GARDENIAE AND FERMENTED SOYBEANS TOTAL EXTRACT BASED ON SUPERCRITICAL EXTRACTION AND PREPARATION AND USE THEREOF	2023/11/15
2023/10588	RICE TOLERANCE EXPERIMENTAL DETECTION METHOD AND DEVICE USED	2023/11/15
2023/10594	NETWORK CONFIGURATION METHOD AND APPARATUS, DEVICE, AND MEDIUM	2023/11/15
2023/10623	2SFCA METHOD IMPROVED BASED ON PARK QUALITY AND MULTI-TRANSPORTATION MODE	2023/11/16
2023/10624	ASSESSMENT METHOD OF TERRESTRIAL VEGETATION RESPONSE TO DROUGHT BASED ON MULTI-SOURCE REMOTE SENSING DATA	2023/11/16
2023/10625	COMPOUND LIGUSTICUM WALLICHII AND ANGELICA SINENSIS TOTAL EXTRACT BASED ON SUPERCRITICAL EXTRACTION	2023/11/16
2023/10631	RECIRCULATION DEVICE FOR RECIRCULATING ANODE EXHAUST GAS IN A FUEL CELL SYSTEM	2023/11/16

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2023/10633	EXTENDABLE ARM FOR A CENTRE PIVOT IRRIGATION SYSTEM	2023/11/16
2023/10638	RECIRCULATION DEVICE FOR RECIRCULATING ANODE EXHAUST GAS AS RECIRCULATION GAS IN A FUEL CELL SYSTEM	2023/11/16
2023/10648	VIBRATORY SCREENER	2023/11/16
2023/10653	PREPARATION AND APPLICATION OF DOPAMINE MODIFIED COATED ASPHALT-BASED CARBON SUPERCAPACITOR MATERIAL	2023/11/17
2023/10654	DEVICE FOR PREPARING ASPHALT-BASED CARBON MATERIALS WITH HIERARCHICAL STRUCTURE	2023/11/17
2023/10657	A CULTIVATION CONTROL EQUIPMENT FOR ENHANCING THE FLOWER COLOR PHENOTYPE OF LILY BY APPLYING UV-B RADIATION	2023/11/17
2023/10658	METHOD FOR RESEARCHING PREDATION EFFECT OF PREDATORY MITES ON BRADYSIA ODORIPHAGA	2023/11/17
2023/10659	MEDICAL HIGH-STRENGTH AND LOW-ELASTIC ZINC-TITANIUM DEGRADABLE COMPOSITE MATERIAL WITH NANO CORE-SHELL STRUCTURE, AND PREPARATION METHOD AND APPLICATION THEREOF	2023/11/17
2023/10660	AN EFFICIENT MIXING DEVICE FOR SOIL REMEDIATION AGENT FOR ECOLOGICAL RESTORATION	2023/11/17
2023/10661	AN ANALYTICAL DEVICE AND METHOD APPLIED TO ENTERPRISE CARBON EMISSION REDUCTION	2023/11/17
2023/10670	A PRACTICAL TRAINING PLATFORM AND AN ECONOMIC MANAGEMENT TEACHING SYSTEM	2023/11/17
2023/10672	A SCENARIO-BASED MULTI-SOURCE DATA FUSION ANALYSIS METHOD, SYSTEM AND RELATED EQUIPMENT	2023/11/17
2023/10692	A PROCESS FOR TREATMENT OF MUNICIPAL WASTEWATER AND GENERATION OF BIOELECTRICITY BY ELECTROCHEMICAL MEMBRANE BIOREACTOR	2023/11/20
2023/10695	DIAMOND FLUX-CORED WIRE FOR ADDITIVE MANUFACTURING AND PREPARATION METHOD THEREOF	2023/11/20
2023/10696	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING	2023/11/20

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	CHRONIC COUGH IN DOGS AND APPLICATION THEREOF	
2023/10697	INFORMATION MANAGEMENT METHOD AND SYSTEM FOR ENGINEERS	2023/11/20
2023/10698	PLANTING METHOD FOR IMPROVING POPULATION DENSITY OF APOCYNUM VENETUM L. IN YELLOW RIVER DELTA BY USING REED STALKS	2023/11/20
2023/10699	A STORAGE DEVICE FOR SPORTS EQUIPMENT	2023/11/20
2023/10700	AN INNOVATIVE GADGET FOR CONTROLLING WANDERING ANIMALS TO ENHANCE ROAD SAFETY	2023/11/20
2023/10703	IMPROVED METABOLIC CAGE FOR SHEEP DIGESTION	2023/11/20
2023/10705	METHOD FOR CULTIVATING GRAPE VARIETIES BASED ON IMPROVED EMBRYO CULTURE TECHNOLOGY	2023/11/20
2023/10706	TAPERED SPIRAL TYPE PIPE JACKING MACHINE	2023/11/20
2023/10707	DEVICE FOR BIOGAS SLURRY DEEP-APPLICATION IN SALINE-ALKALI SOIL	2023/11/20
2023/10708	SCAN CODE UNLOCK DELIVERY BOX	2023/11/20
2023/10715	SYSTEM AND METHOD FOR CREATING, RANKING, INTEGRATING AND IMPLEMENTING PLANS IN A MINING AND PRODUCTION PROCESS	2023/11/20
2023/10729	POF MULTI-STATION CUTTING UNIT	2023/11/20
2023/10734	PRIMER COMBINATION FOR SIMULTANEOUSLY DETECTING DISEASE-RESISTANT GENES TY-1, I-2 AND CF-9 OF SOLANUM LYCOPERSICUM AND MULTIPLEX PCR METHOD THEREFOR	2023/11/21
2023/10735	A METHOD FOR REDUCING FLUORINE CONTENT IN COPPER CONCENTRATE BY USING PARTICLE SIZE CLASSIFICATION - PULSE VOLTAGE	2023/11/21
2023/10737	PROCESS CARTRIDGE AND POTENTIAL DETECTION PART	2023/11/21
2023/10739	WASTE TAILING SEWAGE PURIFICATION TREATMENT METHOD AND SYSTEM THEREOF	2023/11/21
2023/10740	AN ELECTRODE MANUFACTURING	2023/11/21

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	POLISHING TREATMENT DEVICE	
2023/10741	PREFABRICATED COLUMN FRAME PLATE FOR COLUMN-TYPE TRACK BED AND CONSTRUCTION METHOD THEREOF	2023/11/21
2023/10743	WIRELESS CHARGING CAPACITANCE PEN	2023/11/21
2023/10744	EFFICIENT HEAT DISSIPATION CHASSIS FOR COMPUTER	2023/11/21
2023/10752	PACKAGE TRANSPORTATION HANDLING SYSTEM AND METHOD	2023/11/21
2023/10773	HYDROGEN-BASED MEMBRANE BIOFILM REACTOR SYSTEM AND METHOD FOR TREATING 4-BROMOPHENOL IN TERTIARY INDUSTRIAL WASTEWATER	2023/11/22
2023/10774	GRAFTING SURVIVAL METHOD OF CHIONANTHUS RETUSUS THICK BRANCHES	2023/11/22
2023/10775	GEOCHEMICAL EXPLORATION METHOD FOR VERIFYING MINERAL ANOMALIES IN COVERAGE AREA	2023/11/22
2023/10776	FOREST TREE SUPPORT DEVICE	2023/11/22
2023/10777	PAPER-BASED BIOSENSOR DEVICE AND METHOD	2023/11/22
2023/10778	AN INTEGRATED DEVICE FOR CLINICAL DIAGNOSIS AND TREATMENT IN GENERAL MEDICINE	2023/11/22
2023/10781	A MILK-CLOTTING ENZYME (MCE) DERIVED FROM EXIGUOBACTERIUM SP. P-6 AND ITS APPLICATIONS IN MILK SOURCE BIOACTIVE PEPTIDES PREPARATION	2023/11/22
2023/10783	A PAN-KRAS INHIBITOR COMPOUND	2023/11/22
2023/10785	METHOD FOR ISOTHERMAL AMPLIFICATION OF NUCLEIC ACID TARGET SEQUENCES	2023/11/22
2023/10794	APPARATUS AND SYSTEM FOR DRUG RECONSTITUTION BY LIQUID TRANSFER	2023/11/22
2023/10795	IMPROVED WORKABILITY RETENTION IN LOW-CLINKER HYDRAULIC COMPOSITIONS	2023/11/22
2023/10812	SYSTEM OF MACHINES CONNECTED IN PARALLEL, AND METHOD FOR TRANSITION BETWEEN ON-GRID MODE AND OFF-GRID MODE	2023/11/23
2023/10813	MOLYBDENUM DISULFIDE/BLACK	2023/11/23

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	PHOSPHORENE COMPOSITE MATERIAL, PREPARED ELECTROCHEMICAL SENSOR AND APPLICATION THEREOF	
2023/10814	A RAT ORAL CAVITY DILATOR	2023/11/23
2023/10815	SPARE WHEEL HOLDER	2023/11/23
2023/10817	A DESIGN METHOD OF BODY STIFFNESS TEST BENCH BASED ON HYBRID META-MODEL	2023/11/23
2023/10819	COMPUTER-IMPLEMENTED METHOD OF SUPPORTING A FARMER IN AGRICULTURAL ACTIVITIES	2023/11/23
2023/10820	VISUALIZED ASSEMBLY-TYPE FULL DECORATION SERVICE MANAGEMENT SYSTEM	2023/11/23
2023/10822	ELECTRICAL STIMULUS CIRCUIT	2023/11/23
2023/10840	ENVIRONMENTAL-FRIENDLY WATER DISPENSER	2023/11/24
2023/10841	RIVER SLOPE CLEANING DEVICE	2023/11/24
2023/10842	PREPARATION AND APPLICATION OF IRON-DOPED CARBON NITRIDE AND CARBON NANOTUBES COMPOSITE MATERIAL MODIFIED ELECTRODE	2023/11/24
2023/10844	SURVEYING AND MAPPING MARKER POST FOR ENGINEERING SURVEYING AND MAPPING	2023/11/24
2023/10845	A ROBOTIC GLOVE SYSTEM FOR HEALING USING MUDRA THERAPY	2023/11/24
2023/10846	DROUGHT RESISTANCE APPRAISAL METHOD SUITABLE FOR MEMBRANE RIGDE CROSS IN ZEA MAYS FIELDS	2023/11/24
2023/10847	A SYSTEM FOR DETECTING DISEASES IN PLANTS AND A METHOD THEREOF	2023/11/24
2023/10848	BIOLOGICAL CONTROL METHOD FOR RICE BLAST	2023/11/24
2023/10850	PHOSPHORUS RECOVERY AND SYNGAS GENERATION FROM BIOWASTE	2023/11/24
2023/10855	SANDWICH BISCUIT CONTAINING COARSE CEREALS, AND PRODUCTION PROCESS THEREFOR	2023/11/24
2023/10856	MEAL REPLACEMENT PASTRY AND PREPARATION METHOD THEREFOR	2023/11/24
2023/10882	CORRUGATED STEEL PARTITION STRUCTURE	2023/11/24
2023/10883	A MULTI-LENS ACQUISITION	2023/11/24

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	DEVICE FOR THREE-DIMENSIONAL RECONSTRUCTION OF SCENIC SPOTS	
2023/10894	ELECTROMECHANICAL BRAKE PEDAL	2023/11/27
2023/10896	COMPOSITION FOR PREVENTING AND TREATING SESAME FUSARIUM WILT	2023/11/27
2023/10897	ADJUSTABLE MASSAGE DEVICE FOR ELDERLY HEALTH	2023/11/27
2023/10899	MULTI-MODAL LAYERED MULTI-OBJECTIVE DISTRIBUTED OPTIMIZATION ACCELERATION METHOD FOR INTEGRATED ENERGY SYSTEM	2023/11/27
2023/10900	CALCULATION METHOD OF POLISHING REMOVAL RATE FOR ALUMINUM GATE CMP	2023/11/27
2023/10901	NOVEL NONDESTRUCTIVE DETECTING DEVICE FOR FIRMNESS OF FRAGRANT PEARS	2023/11/27
2023/10903	CONSTRUCTION AND OPERATIONAL STRATEGY OF MICROBIAL ELECTROCHEMICAL FILTER FOR REMOVING IRON, MANGANESE AND AMMONIA NITROGEN FROM GROUNDWATER	2023/11/27
2023/10904	DISINFECTION APPARATUS AND METHOD FOR IN-SITU ASSESSMENT OF BACTERIAL STRAINS BASED ON QUORUM SENSING	2023/11/27
2023/10906	RISK EVALUATION METHOD FOR GEOLOGICAL DISASTERS BASED ON DYNAMIC DEFORMATION OF INSAR MONITORING	2023/11/27
2023/10907	INSAR MONITORING SYSTEM BASED ON IMAGE PROCESSING, AND INSAR MONITORING METHOD THEREOF	2023/11/27
2023/10909	GIRDER-ERECTING METHOD	2023/11/27
2023/10910	CONSTRUCTION METHOD FOR X-ARCH BRIDGE	2023/11/27
2023/10916	SATIRE DETECTION METHOD BASED ON SENTIMENT-TOPIC-SATIRE MODEL	2023/11/27
2023/10948	A DOUBLE-COMPONENT GROUTING MATERIAL AND ITS APPLICATION IN GROUP SUPPORT OF COAL MINE UNDERGROUND PASSED THROUGH EMPTY ROADWAY	2023/11/28
2023/10949	A WATERBORNE ACRYLATE	2023/11/28

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	COATING FOR THE PROTECTION OF WOODEN CULTURAL RELICS AND ITS PREPARATION METHOD	
2023/10950	A PREPARATION METHOD OF INORGANIC SUB-NANOWIRES / TERT-BUTYL ACRYLATE COMPOSITE ELASTOMER MATERIALS	2023/11/28
2023/10951	FERTILIZER COMPOSITION AND APPLICATION THEREOF IN PREVENTING AND TREATING RICE BAKANAE DISEASE	2023/11/28
2023/10952	METHOD FOR DETERMINING CONDITIONER APPLICATION AMOUNT IN ACIDIFIED SOIL REMEDIATION	2023/11/28
2023/10953	METHOD FOR BREEDING ZEBRAFISH WITH SLC26A4 GENE DELETION	2023/11/28
2023/10954	A SUSTAINABLE CULTIVATION METHOD FOR PROMOTING ANTHOCYANIN SYNTHESIS IN COLORED RICE	2023/11/28
2023/10955	AN EFFICIENT FLOTATION METHOD FOR RUTILE	2023/11/28
2023/10956	A PREFABRICATED SHEAR WALL STRUCTURE	2023/11/28
2023/10957	MINERAL INFORMATION IDENTIFICATION SYSTEM AND METHOD BASED ON SPECTRAL ENHANCEMENT	2023/11/28
2023/10960	AN UPLINK SCHEDULING SYSTEM TO ENHANCE SPECTRAL EFFICIENCY OF 5G NETWORK	2023/11/28
2023/10961	A BAMBOO MOISTURE CHAMBER	2023/11/28
2023/10962	A SYSTEM FOR SURVEILLANCE ENHANCEMENT AND CONTROL DISPLAY USING MACHINE LEARNING FOR TRAFFIC VIOLATION	2023/11/28
2023/10963	QUANTUM RADAR EXPERIMENTAL DEVICE BASED ON A QUANTUM STATE COMPARATOR	2023/11/28
2023/10964	INTELLIGENT FILM APPLICATION DEVICE FOR FURNITURE PANELS	2023/11/28
2023/10965	ASSEMBLY EQUIPMENT FOR FURNITURE MANUFACTURING	2023/11/28
2023/10966	PHARMACEUTICAL COMPOSITION AND USE THEREOF IN REGULATING FIBROBLAST GROWTH	2023/11/28
2023/10968	AN AUTOMATIC FOLDING DEVICE	2023/11/28

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	FOR RICE SEEDLING TRAY	
2023/10970	A SUPPORT FOR A DIPOLE CONNECTOR	2023/11/28
2023/10972	MASSAGING DEVICE	2023/11/28
2023/10981	INTERACTIVE EMOTIONAL ROBOT SUITABLE FOR THE ELDERLY	2023/11/28
2023/10982	SPECTRAL CLUSTERING METHOD AND SYSTEM BASED ON UNIFIED ANCHOR AND SUBSPACE LEARNING	2023/11/28
2023/10983	CITATION NETWORK GRAPH REPRESENTATION LEARNING SYSTEM AND METHOD BASED ON MULTI-VIEW CONTRASTIVE LEARNING	2023/11/28
2023/10984	LATE FUSION MULTI-VIEW CLUSTERING METHOD AND SYSTEM BASED ON LOCAL MAXIMUM ALIGNMENT	2023/11/28
2023/10985	MULTI-VIEW CLUSTERING METHOD AND SYSTEM BASED ON MATRIX DECOMPOSITION AND MULTI-PARTITION ALIGNMENT	2023/11/28
2023/10989	DEVICE FOR CALIBRATING POSE OF END OF COALCUTTER BASED ON INTEGRATION OF IMU AND UWB	2023/11/29
2023/10990	PREPARATION METHOD OF PREPARATION USING FRESH MEDICINAL AND EDIBLE PLANT AS RAW MATERIAL AND APPLICATION	2023/11/29
2023/10991	INTELLIGENT MONITORING AND EARLY WARNING APPARATUS FOR SEMI-RIGID BASE BASED ON HIPERPAV	2023/11/29
2023/10992	ARTIFICIAL INTELLIGENCE AUXILIARY MONITORING SYSTEM FOR POSTPARTUM ABDOMINAL RECOVERY	2023/11/29
2023/10993	PLANT DISEASE OR PEST IDENTIFICATION SYSTEM BASED ON BIG DATA AND DEEP LEARNING	2023/11/29
2023/10994	A REGIONAL PRODUCT DESIGN METHOD BASED ON ASSOCIATION ANALYSIS	2023/11/29
2023/10995	DUST REMOVAL DEVICE FOR TUNNEL CONSTRUCTION TRIGGERED BY BLAST VIBRATION SOURCE SHOCK WAVE	2023/11/29
2023/10997	A SAFE MEDICINE TAKING DEVICE FOR THE ELDERLY AND A MEDICINE TAKING METHOD	2023/11/29

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2023/10998	A VR TEACHING DEVICE BASED ON THE INTEGRATION OF INTELLIGENT TEACHING	2023/11/29
2023/11000	METHOD FOR ESTABLISHING AN ENTERITIS CELL MODEL AND AN APPLICATION THEREOF	2023/11/29
2023/11001	DEVICE FOR DISPLAYING CONTENTS IN A COMPUTER SOFTWARE ENGINEERING TEST	2023/11/29
2023/11002	MAINTENANCE DEVICE FOR COMMUNICATION ELECTRONIC EQUIPMENT	2023/11/29
2023/11003	NETWORK DISTRIBUTION METHOD, NETWORK DISTRIBUTION DEVICE, IMAGE FORMING APPARATUS, TERMINAL AND MEDIUM	2023/11/29
2023/11004	AN ELECTROHYDROGEN EFFICIENT CONVERSION REDUCTION SMELTING DEVICE AND METHOD	2023/11/29
2023/11011	HIGH-PROTEIN LOW-FAT PORK SAUSAGE WITH GANODERMA LUCIDUM SPORE POWDER AND AURICULARIA CORNEA AND PREPARATION METHOD THEREFOR	2023/11/29
2023/11026	METHOD OF ROUTE MANAGEMENT	2023/11/29
2023/11028	ADJUVANT FOR INCREASING THE SHORT-TERM MECHANICAL STRENGTH OF A HYDRAULIC COMPOSITION WITH A REDUCED CLINKER CONTENT	2023/11/29
2023/11052	METHOD FOR ESTIMATING HEALTH STATE OF MINING LITHIUM-ION BATTERY PACK BASED ON CAPACITY INCREMENT CURVE	2023/11/30
2023/11053	FURNACE STRUCTURE OF CHAIN-GRATE BOILER ACHIEVING BALED BIOMASS COMBUSTION	2023/11/30
2023/11057	METHOD FOR STUDYING AND JUDGING ZONATION AND ORE-BEARING POTENTIAL OF OXIDATION ZONE OF IN-SITU LEACHING SANDSTONE TYPE URANIUM ORE	2023/11/30
2023/11058	PREPARATION METHOD FOR CASSAVA RESIDUE FERMENTED FEED AND APPLICATION	2023/11/30
2023/11059	IMAGE SEGMENTATION METHOD BASED ON IMPROVED WHALE ALGORITHM AND KERNEL FUZZY C-MEANS CLUSTERING	2023/11/30
2023/11060	A GLENOID PROSTHESES SYSTEM	2023/11/30

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2023/11062	BLOCKCHAIN-BASED TRADING SYSTEM	2023/11/30
2023/11065	AN ANIMAL SKIN FOOD PRODUCT SUITABLE FOR COOKING IN A MICROWAVE	2023/11/30
2023/11080	A FACTORY SEEDLING AND SEEDING DEVICE	2023/11/30
2023/11102	FRETTING WEAR REDUCTION OF INTERFERENCE FITTED CONE CRUSHER HEAD	2023/11/30
2023/11103	FRETTING WEAR REDUCTION IN INTERFERENCE FIT OF CONE CRUSHER HEAD	2023/11/30
2023/11105	WATER POLLUTION TREATMENT DEVICE	2023/11/30
2023/11117	AN ECOLOGICAL GREEN WALL FOR WASTEWATER TREATMENT	2023/12/01
2023/11118	RETAINING METHOD FOR GOB-SIDE ENTRY RETAINING	2023/12/01
2023/11119	PREPARATION METHOD AND APPLICATION OF GROUP-MODIFIED GRAPHITIC CARBON NITRIDE PHOTOCATALYST	2023/12/01
2023/11120	A COAL GANGUE/POLYURETHANE GROUTING COMPOSITE MATERIAL AND ITS PREPARATION METHOD	2023/12/01
2023/11121	A PROCESSING METHOD FOR ENHANCING THE OIL ADSORPTION ABILITY OF ASPARAGUS CRUDE FIBER POWDER	2023/12/01
2023/11125	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING RESPIRATORY SYSTEM DISEASES	2023/12/01
2023/11142	STUTZERIMONAS DEGRADANS SH1 OF CHLORINATED HYDROCARBON DEGRADING BACTERIA AND APPLICATION THEREOF	2023/12/04
2023/11143	GLOVE FOR BLIND BASED ON ARTIFICIAL INTELLIGENCE	2023/12/04
2023/11144	A CALCULATION METHOD FOR DETERMINING THE REBOUND MODULUS OF GRANULAR MATERIAL LAYER	2023/12/04
2023/11145	METHOD FOR CULTIVATING AND GROWING IMITATION WILD GANODERMA SICHUANENSE	2023/12/04
2023/11148	EQUIPMENT FOR PYROLYSIS GASIFICATION AND GAS	2023/12/04

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2023/11149	CULTIVATION METHOD FOR PROMOTING GRAPES MATURE EARLY BY CONTROLLING DORMANCY IN GREENHOUSE	2023/12/04
2023/11150	A PALM WASTE BASED SANDWICH COMPOSITE STRUCTURE (SCS) AND A METHOD FOR ITS FABRICATION	2023/12/04
2023/11151	A COMPUTER VISION AND MACHINE LEARNING BASED AUTOMATIC VEHICLE TRAFFIC CONTROL SYSTEM	2023/12/04
2023/11152	INJECTION MOULD WITH CONFORMAL COOLING CHANNELS MANUFACTURED BY METAL ADDITIVE MANUFACTURING	2023/12/04
2023/11160	LOCKING DEVICE FOR SEMI TRAILER FIFTH WHEEL	2023/12/04
2023/11164	APPARATUS FOR IMPROVING HYDRATION AND / OR REDUCING PARTICLE SIZE OF A PRODUCT AND A METHOD OF USE THEREOF	2023/12/04
2023/11165	DOWNHOLE TOOL ASSEMBLIES	2023/12/04
2023/11181	CAR WASH	2023/12/05
2023/11182	MINIMALLY INVASIVE DENTAL ELEVATOR FOR EXTRACTING LOWER IMPACTED WISDOM TEETH	2023/12/05
2023/11183	CALLUS INDUCTION AND PROLIFERATION METHOD FOR ARDISIA MAMILLATA HANCE	2023/12/05
2023/11184	PROTECTIVE CASING FOR FIELD DATA ACQUISITION DEVICE	2023/12/05
2023/11185	MACHINE-MADE SAND REACTIVE POWDER CONCRETE	2023/12/05
2023/11187	CABLE CONTAINING LED LIGHT STRIP DRIVEN BY INDUCED CURRENT	2023/12/05
2023/11188	TEST BENCH FOR SNUBBER	2023/12/05
2023/11189	SEED COATING AGENT COMPOSITION	2023/12/05
2023/11193	VOLTAGE DRIVEN PASSIVE LED LUMINOUS CABLE	2023/12/05
2023/11219	DEMOUNTABLE BUILDING AND METHOD FOR CONSTRUCTING SAME	2023/12/06
2023/11220	VASCULAR SURGERY HEMOSTASIS DEVICE	2023/12/06
2023/11221	METHOD AND SYSTEM FOR GENERATING HIGH-SPEED RANDOM NUMBERS BASED ON CHAOTIC OPTICAL FREQUENCY	2023/12/06

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	COMB	
2023/11222	GATE AUTOMATION	2023/12/06
2023/11223	A GRAPE FALLING DETECTION DEVICE AND DETECTION METHOD THEREOF	2023/12/06
2023/11224	WATER-SAVING AND FERTILIZER-SAVING SAND CULTURE CULTIVATION SYSTEM FOR GOBI DESERT AND SALINE-ALKALI LAND	2023/12/06
2023/11225	ANTIBACTERIAL TOOTHPASTE CONTAINING ILEX LATIFOLIA THUNB EXTRACT	2023/12/06
2023/11226	A NORTHERN GRAPE 'DOUBLE PLANT DOUBLE V' CULTIVATION FRAME	2023/12/06
2023/11228	ASSESSMENT METHOD FOR TUNNEL CONSTRUCTION SAFETY RISKS	2023/12/06
2023/11232	AN DEVICE AND METHOD FOR EXCAVATING HETEROGENEOUS GROUND SUBSTRATE	2023/12/06
2023/11233	MONITORING DEVICE CONVENIENT FOR DISASSEMBLY AND ASSEMBLY FOR CONTROL ENGINEERING	2023/12/06
2023/11234	POLISHING FIXTURE FOR METALLOGRAPHIC EXAMINATION	2023/12/06
2023/11235	ENERGY STORAGE APPARATUS AND ELECTRIC DEVICE	2023/12/06
2023/11246	METHOD FOR PREPARING N-(3-CHLORO-4-(2-PYRIDYLMETHOXY)PHENYL)-2-CYANOAC ETAMIDE	2023/12/06
2023/11256	A METHOD FOR PREPARING BAMBOO FLAVOR BLACK TEA	2023/12/06
2023/11267	ANTI-INFLAMMATORY TOOTHPASTE CAPABLE OF INHIBITING ORAL INFLAMMATION	2023/12/07
2023/11273	DEVICE FOR POLISHING INNER WALLS OF Y-SHAPED THREE-WAY PIPE FITTING	2023/12/07
2023/11277	ESTIMATION METHOD FOR VEGETATION WATER CONSUMPTION FOR ECOLOGICAL RESEARCH	2023/12/07
2023/11280	PHYSICAL OZONE PREVENTION AND CONTROL SYSTEM FOR FRUIT AND VEGETABLE DISEASES IN SOLAR GREENHOUSE	2023/12/07
2023/11281	CLEANING AND ALGAE REMOVAL DEVICE FOR RADIAL-FLOW SECONDARY SEDIMENTATION	2023/12/07

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2023/11285	FRESHWATER-RECIRCULATING AQUACULTURE SYSTEM	2023/12/07
2023/11310	MODIFIED IRON-BASED METAL-ORGANIC FRAMEWORK ELECTROCATALYST, AND PREPARATION METHOD AND APPLICATION THEREOF	2023/12/08
2023/11314	PESTICIDE EXTRACTION DEVICE FOR PESTICIDE RESIDUE DETECTION	2023/12/08
2023/11316	UNDERGROUND SUPPORT STRUCTURE AND METHOD OF USING SAME	2023/12/08
2023/11317	DESILTING DEVICE FOR WATER CONSERVANCY ECOLOGICAL ENGINEERING	2023/12/08
2023/11318	MULTIDENTATE AZA LIGAND PALLADIUM FUNCTIONALIZED FIBER AS WELL AS PREPARATION METHOD AND USE THEREOF	2023/12/08
2023/11319	AUTOMATIC MEASURING DEVICE FOR HEIGHTS OF SHRUB GRASS PLANTS	2023/12/08
2023/11320	MAGNETIC INDUCTION WIND EROSION PROCESS MONITORING EQUIPMENT	2023/12/08
2023/11322	THE PREPARATION METHOD OF ORGANIC INDIUM SALT/RARE EARTH STRONTIUM ALUMINATE COMPOSITE BLUE LIGHT MATERIAL	2023/12/08
2023/11323	THE PLANT DYEING METHOD THAT DIRECTLY DISPLAYS THE PATTERN	2023/12/08
2023/11324	THE ALKALINE PRINTING DEGUMMING PROCESS	2023/12/08
2023/11325	THE LIGHT-HEAT DUAL-RESPONSE INTELLIGENT COLOR-CHANGING COTTON FABRIC	2023/12/08
2023/11331	INSTALLATION MACHINE AND METHOD FOR ASSEMBLING STEEL-CONCRETE COMPOSITE BEAM BRIDGE	2023/12/08
2023/11332	A SYSTEM AND A METHOD FOR MICRONIZATION OF SOLID PARTICLES USING VAVULAR CONDUIT	2023/12/08
2023/11356	NON-RETURN VALVES	2023/12/11
2023/11357	METHOD FOR REDUCING NITROGEN APPLICATION AND INCREASING YIELD OF CUCUMBER	2023/12/11

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2023/11358	METHOD FOR PREPARING GEOPOLYMERS FROM OXIDIZED GOLD ORE HEAP-LEACHING TAILINGS	2023/12/11
2023/11359	A GENERAL FUEL OIL ADDITIVE COMPOSITION, PRODUCTION PROCESS AND PROCESSING DEVICE	2023/12/11
2023/11360	ROBOT PATH TRAJECTORY PLANNING METHOD BASED ON DISTRIBUTED MODEL PREDICTION	2023/12/11
2023/11399	INTEGRATED INTELLIGENT MANAGEMENT AND CONTROL SYSTEM OF SEWAGE AND WATER SYSTEMS	2023/12/12
2023/11407	METHOD FOR RECYCLING FERROUS SULFATE HEPTAHYDRATE AND SULFURIC ACID FROM WASTE ACID IN TITANIUM DIOXIDE PRODUCTION	2023/12/12
2023/11410	METHOD FOR CONSTRUCTING SUSPENDED DIAPHRAGM AIR DELIVERY DUCT OF HIGHWAY TUNNEL	2023/12/12
2023/11413	IMAGE SUPER-RESOLUTION RECONSTRUCTION METHOD AND SYSTEM	2023/12/12
2023/11414	ELASTIC SYSTEM AND METAL ZERO-LENGTH SPRING RELATIVE GRAVIMETER	2023/12/12
2023/11419	BIOGAS SLURRY, BIOGAS RESIDUE AND BIOGAS PRODUCTION TANK FOR GRASS PLANTING IN ALPINE PASTURING AREA	2023/12/12
2023/11454	BLOOD SAMPLE COLLECTING BOX FOR ANIMAL EPIDEMIC DISEASE DETECTION	2023/12/13
2023/11504	COMPUTER SECURITY CONTROLLER BASED ON LARGE DATA	2023/12/14
2023/11505	STATISTICAL SYSTEM FOR PRODUCT DATA CLASSIFICATION BASED ON TIME SERIES ANALYSIS	2023/12/14
2023/11513	LATER-FUSION MULTIPLE KERNEL CLUSTERING MACHINE LEARNING METHOD AND SYSTEM BASED ON PROXY GRAPH IMPROVEMENT	2023/12/14
2023/11561	CONTACT MIXED CULTURE METHOD OF GLIAL CELLS AND NEURONS	2023/12/18
2023/11564	THREE-WAY PIPE FITTING PROCESSING DEVICE	2023/12/18
2023/11565	COMPOSITION AND METHOD FOR	2023/12/18

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	SYNTHESIS OF NATURAL MOSQUITO REPELLENT PRODUCT FROM SOYABEAN CAKE	
2023/11631	PUMP STATION-LID JOINT MULTI-OBJECTIVE OPTIMIZATION METHOD BASED ON DOA ALGORITHM	2023/12/19
2024/00351	ENZYMATIC METHOD FOR THE PRODUCTION OF L-GLUFOSINATE P-ALKYL ESTERS	2024/01/10
2024/00813	DIAGNOSIS OF RESPIRATORY DISEASES USING ANALYSIS OF EXHALED BREATH AND AEROSOLS	2020/08/26
2024/01540	VACUUM CARBURIZING METHOD FOR OBTAINING DISPERSEDLY DISTRIBUTED FINE CARBIDES	2024/02/21
2024/01704	AN ARTIFICIAL INTELLIGENCE BASED EXPLAINABLE CROP RECOMMENDATION SYSTEM	2024/02/28
2024/01708	MODULATORS OF MAS-RELATED G-PROTEIN RECEPTOR X4 AND RELATED PRODUCTS AND METHODS	2024/02/28
2024/02139	WATERPROOF AND FLAME-RETARDANT OPTICAL CABLE JACKET MATERIAL MASTERBATCH AND PREPARATION METHOD THEREOF	2024/03/18
2024/02726	DUAL-TARGETING COMPOUND AND PREPARATION METHOD AND APPLICATION THEREOF	2024/04/09
2024/02767	LACTOBACILLUS PLANTARUM AND ITS APPLICATION	2024/04/10
2024/02824	PREPARATION METHOD AND APPLICATION OF SESQUITERPENES AND THEIR DIMERS	2024/04/11
2024/03020	PRODRUGS OF L-BHDU AND METHODS OF TREATING VIRAL INFECTIONS	2024/04/18
2024/03256	DUAL-TARGETING COMPOUND FOR FIBROBLAST ACTIVATION PROTEIN (FAP) AND INTEGRIN ?V?3, PREPARATION METHOD THEREFOR AND USE THEREOF	2024/04/26
2024/03256	DUAL-TARGETING COMPOUND FOR FIBROBLAST ACTIVATION PROTEIN (FAP) AND INTEGRIN ?V?3, PREPARATION METHOD THEREFOR AND USE THEREOF	2024/04/26
2024/03630	KOAPT-THERAPY-BASED TREATMENT AND REHABILITATION DEVICE FOR DEGENERATIVE KNEE	2024/05/10

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2024/03796	A PULSED LASER IN SITU IMPACT AUXILIARY LASER CLADDING DEVICE AND THE APPLICATION METHOD THEREOF	2024/05/16
2024/04192	NAPHTHALENE ISOXAZOLINE COMPOUND AND APPLICATION THEREOF	2024/05/28
2024/04215	INTEGRATED FILAMENT WINDING APPARATUS	2024/05/30
2024/04375	INTELLIGENT CONTROL SYSTEM FOR INTELLIGENT PUMPING STATION AND CONTROL METHOD THEREOF	2024/06/05
2024/04413	DUAL-CONNECTION CRANK-PISTON MECHANISM	2024/06/06

DESIGNS

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A2020/01081	GARMENTS	2020/08/07
A2020/01082	GARMENTS	2020/08/07
A2020/01193	ORNAMENTATION FOR PACKAGING	2020/09/02
A2022/01666	ARTISTIC MOTIF	2022/12/19
A2023/00109	THUMBSTICK OF CONTROLLER FOR ELECTRONIC DEVICE	2023/01/25
A2023/00112	HOUSING OF CONTROLLER	2023/01/25
A2023/00318	KEYPAD FOR ALARMS	2023/03/01
A2023/00375	WHEEL LOADER	2023/03/17
A2023/00412	A CHEEK REST FOR A FIREARM	2023/04/03
A2023/00467	AUTOMOBILES	2023/04/14
A2023/00740	Box	2023/07/06
A2023/00825	BEVERAGE CONTAINER	2023/07/21
A2023/00956	SAFETY GOGGLE	2023/09/01
A2023/00958	A ROLL-ON CONTAINER AND BALL	2023/09/01
A2023/00960	A CAP FOR A ROLL-ON CONTAINER	2023/09/01
A2023/00963	Storage Containers	2023/09/04
A2023/00965	Water meter boxes	2023/09/04
A2023/00967	Head-Mounted Display	2023/09/05
A2023/00968	Head-Mounted Display	2023/09/05
A2023/00969	Head-Mounted Display	2023/09/05
A2023/00970	Head-Mounted Display	2023/09/05

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A2023/00971	Head-Mounted Display	2023/09/05
A2023/00972	Head-Mounted Display	2023/09/05
A2023/00973	Head-Mounted Display	2023/09/05
A2023/00974	Head-Mounted Display	2023/09/05
A2023/00975	Head-Mounted Display	2023/09/05
A2023/00976	Head-Mounted Display	2023/09/05
A2023/00977	Head-Mounted Display	2023/09/05
A2023/00978	Mug	2023/09/07
A2023/00979	Mug	2023/09/07
A2023/00980	Mug	2023/09/07
A2023/00981	Mug	2023/09/07
A2023/00994	TYRES AND TYRE TREADS	2023/09/11
A2023/00996	Bottle	2023/09/13
A2023/01001	AN ANCHOR INTRODUCER	2023/09/14
A2023/01003	AUTOMOBILES	2023/09/14
A2023/01004	Movement Mechanism for Clocks and Watches	2023/09/14
A2023/01005	Movement Mechanism for Clocks and Watches	2023/09/14
A2023/01006	Manual Food Grinder	2023/09/14
A2023/01010	FOOTWEAR	2023/09/18
A2023/01011	INHALATION MASKS	2023/09/19
A2023/01012	INHALATION MASKS	2023/09/19
A2023/01015	Valve Sleeve	2023/09/19
A2023/01023	CONTAINER FOR LIQUID OR GRANULAR SUBSTANCES	2023/09/21
A2023/01025	VEHICLE BED	2023/09/22
A2023/01027	TRAYS	2023/09/22
A2023/01028	PHIALS	2023/09/22
A2023/01030	Customisable Pillow	2023/09/22
A2023/01041	MOTOR VEHICLES	2023/09/27
A2023/01055	Packaging Bag for Foodstuffs	2023/09/28
A2023/01058	GAME CONTROLLERS	2023/09/29
A2023/01065	PIPE ELEMENT	2023/10/02
A2023/01067	PIPE ELEMENT	2023/10/02
A2023/01068	PIPE ELEMENT	2023/10/02
A2023/01069	PIPE ELEMENT	2023/10/02
A2023/01070	PIPE ELEMENT	2023/10/02
A2023/01103	UTILITY RACK	2023/10/12
A2023/01124	APPARATUS FOR THERMOTHERAPY	2023/10/18
A2023/01126	FENCING CLAMP	2023/10/19
A2023/01170	FIREARM	2023/10/27
A2023/01172	FIREARM	2023/10/27
A2023/01173	FIREARM	2023/10/27
A2023/01174	FIREARM	2023/10/27
A2023/01175	FIREARM	2023/10/27
A2023/01181	A STIFFENING ELEMENT FOR FENCING	2023/10/31
F2022/01558	A DISPLAY DEVICE	2022/12/01
F2022/01588	Load Support Bags	2022/12/08

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F2023/00961	A CAP FOR A ROLL-ON CONTAINER	2023/09/01
F2023/00966	Water meter boxes	2023/09/04
F2023/01002	AN ANCHOR INTRODUCER	2023/09/14
F2023/01013	INHALATION MASKS	2023/09/19
F2023/01014	INHALATION MASKS	2023/09/19
F2023/01026	VEHICLE BED	2023/09/22
F2023/01031	BATTERY MODULE	2023/09/26
F2023/01032	A BLANK FOR A TRAY FOR FOOD PACKAGING	2023/09/26
F2023/01033	A BLANK FOR A TRAY FOR FOOD PACKAGING	2023/09/26
F2023/01127	FENCING CLAMP	2023/10/19
F2023/01182	A STIFFENING ELEMENT FOR FENCING	2023/10/31
F2023/01183	A STIFFENING ELEMENT FOR FENCING	2023/10/31
F2024/00353	ELECTRICITY METERS	2024/04/10
F2024/00383	SOLAR PANEL CLAMP	2024/04/22