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INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

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TABLE OF CONTENTS

2. PATENTS 4
APPLICATIONS FOR PATENTS 5
ASSIGNMENTS IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 (1) 103
CHANGE OF NAME IN TERMS OF REGULATION 39 105
PATENT LICENSES IN TERMS OF SECTION 60-REGULATIONS 58-60 AND 64 105
PATENT APPLICATIONS ABANDONED OR WITHDRAWN 105
APPLICATION FOR RESTORATION OF A LAPSED PATENT 106
VOLUNTARY SURRENDER OF A PATENT UNDER SECTION 64 (1), REGULATION 67 OF THE ACT 107
APPLICATIONS TO AMEND SPECIFICATION 107
INSPECTION OF SPECIFICATIONS 109
HYPOTHECATIONS 412
JUDGMENTS 412
OFFICE PRACTISE NOTICES 412
3. DESIGNS 413
APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993 414
APPLICATION FOR THE RESTORATION OF A LAPSED DESIGN UNDER SECTION 23 OF THE ACT 420
APPLICATION TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION 420
NOTICE OF REGISTRATION OF DESIGNS 422
HYPOTHECATIONS 469
JUDGMENTS 469
OFFICE PRACTICE NOTICES 469
4. COPYRIGHT 470
NOTICES OF ACCEPTANCE 471
HYPOTHECATIONS 472
JUDGMENTS 472
OFFICE PRACTICE NOTICES 472
5. CORRECTION NOTICES 473
TRADE MARK CORRECTION NOTICES 474
PATENT CORRECTION NOTICES 474
DESIGNS CORRECTION NOTICES 474
COPYRIGHT CORRECTION NOTICES 474
PATENTS 475
DESIGNS 511

2. PATENTS

PATENTS

APPLICATIONS FOR PATENTS

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

THE PARTICULARS APPEAR IN THE FOLLOWING SEQUENCE:

The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(43)** Date of acceptance. **(51)** Class. **(71)** Name of applicant(s). **(72)** Name of all inventors. **(33)** Country. **(31)** Number and **(32)** Date of convention application. **(54)** Title of invention. **(00)** Number of sheets.

. - APPLIED ON 2025/06/20 -

2025/05247 ~ Provisional ~54:RIDE INSURED INSURANCE SCHEME ~71:Sechaba Moekoa, Sechaba Moekoa, South Africa ~72: Sechaba Moekoa~

2025/05252 ~ Complete ~54:THREE-DIMENSIONAL MONITORING METHOD AND SYSTEM FOR RAINFALL FLOOD RESOURCES ~71:Institute of Pastoral Hydraulic Research, MWR, No. 128, University East Street, Saihan District, Hohhot, Inner Mongolia, 010020, People's Republic of China ~72: CHEN, Xiaojun;CHEN, Zexun;CUI, Shengjie;GAO, Ruizhong;GAO, Weizheng;HU, Wei;LI, Wei;LIU, Xiaomin;MIAO, Ping;QI, Le;SUN, Boyan;WANG, Sinan;WANG, Wenjun;WANG, Yixuan;WU, Yingjie;YANG, Yaotian;YIN, Hang;YUN, Jiameng;ZHANG, Mengmeng;ZHANG, Weijie;ZHAO, Qian;ZHAO, Shuixia;ZHAO, Ziyang;ZHONG, Ran;ZHOU, Quancheng;ZHOU, Yajun~ 33:CN ~31:202411468979.5 ~32:21/10/2024

2025/05256 ~ Complete ~54:METHOD FOR POSITIONING A MICROWAVE ANTENNA ~71:VODAFONE GROUP SERVICES LIMITED, Vodafone House, The Connection, United Kingdom ~72: EL-HELALY, Alaa~ 33:GB ~31:2409712.3 ~32:04/07/2024

2025/05268 ~ Complete ~54:DETERMINING THE STABILITY OF A SUBSTANCE OR SUBSTANCE MIXTURE ~71:Bionorica SE, Kerschensteinerstrasse 11-15, NEUMARKT 92393, GERMANY, Germany ~72: DITTMER, Martin;WIESNETH, Stefan~ 33:IB ~31:2022/082679 ~32:21/11/2022

2025/05269 ~ Complete ~54:TREATMENT OF CHRONIC KIDNEY DISEASE IN TYPE I DIABETES MELLITUS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: BRINKER, Meike Daniela;EDFORS, Robert;KOLKHOF, Peter;LAWATSCHECK, Robert;SCHEERER, Markus Florian~ 33:US ~31:63/384,910 ~32:23/11/2022;33:US ~31:63/515,029 ~32:21/07/2023

2025/05273 ~ Complete ~54:COMPOSITION OF AN ALGAL EXTRACT ~71:UPL Europe Supply Chain GmbH, Suurstoffi 37, ROTKREUZ/RISCH 6343, SWITZERLAND, Switzerland;UPL Mauritius Limited, 6th Floor, Suite 157B, Harbor Front Building, President John Kennedy Street, PORT LOUIS, MAURITIUS, Mauritius ~72: LECOLLINET, Gregory;PARK, Lisa;PARK, Sheldon~ 33:EP ~31:22307039.2 ~32:23/12/2022

2025/05281 ~ Complete ~54:BEZUCLASTINIB FORMULATIONS ~71:Cogent Biosciences, Inc., 275 Wyman Street, 3rd Floor, WALTHAM, 02451, MA, USA, United States of America ~72: BARNETT, Bradley;CROWLEY, Michael M.;ROSINOVSKY, Elodie;SAHIN, Hulya~ 33:US ~31:63/476,812 ~32:22/12/2022

2025/05290 ~ Complete ~54:MODIFIED MULTI-SEGMENTED ANTISENSE OLIGONUCLEOTIDES FOR USE ~71:AUSPERBIO THERAPEUTICS INC., 950 Tower Lane, Suite 340, United States of America ~72: CHENG, Guofeng;YANG, Cheng Yong~ 33:CN ~31:PCT/CN2023/000034 ~32:10/01/2023;33:CN ~31:PCT/CN2023/106924 ~32:12/07/2023

2025/05291 ~ Complete ~54:SPLIT-TYPE LEFT ATRIAL APPENDAGE CLOSURE CLAMP SYSTEM ~71:HangZhou Sunstone Technology Co.,Ltd., 2F Building 1, #460 Fucheng Rd, Qiantang New Area,Hangzhou, People's Republic of China ~72: BAN, Zhisha;CHEN, Xiaorong;GUO, Haiping;LI, Zhonghui;SHI, Lei;TIAN, Zhuang;WENG, Yaxue;ZHANG, Wenjun~ 33:CN ~31:202211695298.3 ~32:28/12/2022;33:WO ~31:PCT/CN2023/115014 ~32:25/08/2023

2025/05299 ~ Complete ~54:METHODS FOR TREATING LATE ONSET POMPE DISEASE IN PEDIATRIC PATIENTS ~71:AMICUS THERAPEUTICS, INC., 3675 Market Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: JAY BARTH;JEFF CASTELLI;SHEELA SITARAMAN DAS~ 33:US ~31:63/429,966 ~32:02/12/2022

2025/05248 ~ Provisional ~54:BKIND SA ~71:Lekau Mamabolo, 39 Girth Street, South Africa ~72: Lekau Mamabolo~

2025/05265 ~ Complete ~54:ANTI-CEA ANTIBODY DRUG CONJUGATES AND METHODS OF USE ~71:BEIGENE SWITZERLAND GMBH, Aeschengraben 27, Switzerland ~72: HE, Maomao;LI, Zhuo;LUO, Wei;QU, Liang;TSAI, Charng-Sheng;TSAI, Mei-Hsuan;WANG, Zewei;WEI, Xiaodong~ 33:CN ~31:PCT/CN2022/134067 ~32:24/11/2022;33:CN ~31:PCT/CN2023/107003 ~32:12/07/2023

2025/05279 ~ Complete ~54:ERROR RESILIENT TOOLS FOR AUDIO ENCODING/DECODING ~71:Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V., Hansastraße 27c, MÜNCHEN 80686, GERMANY, Germany ~72: BRENDEL, Andreas;FUCHS, Guillaume;GUPTA, Kishan;KORSE, Srikanth;MULTRUS, Markus;PIA, Nicola;SCHNELL, Markus~ 33:IB ~31:2022/087807 ~32:23/12/2022

2025/05285 ~ Complete ~54:STABILIZATION OF LIPID NANOPARTICLE FORMULATIONS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ESTABROOK, Daniel;HUANG, Lihua;WANG, Tingting;YU, Zhao~ 33:US ~31:63/435,024 ~32:23/12/2022

2025/05292 ~ Complete ~54:A POWER DISTRIBUTION UNIT (PDU) FOR OPTIMIZING THE DISTRIBUTION OF POWER TO MULTI-PSU ICT EQUIPMENT SUCH AS SERVERS AND NETWORK SWITCHES ARRANGED IN A DATA CENTER RACK ~71:ETHERNETICS, Steenweg 56, 9570, Lierde, Belgium ~72: ROBERT LEUNE~ 33:BE ~31:BE2022/5963 ~32:28/11/2022

2025/05280 ~ Complete ~54:REFRACTORY MATERIAL, METHOD FOR PRODUCING SAME, AND USE THEREOF ~71:Refractory Intellectual Property GmbH & Co. KG, Wienerbergstraße 11, WIEN 1100, AUSTRIA, Austria ~72: BAUER, Christoph;BLAJS, Milos;EDER, Johann;FREIBERGER, Norbert;PRIBIL, Bernhard;TRUMMER, Bernd~ 33:EP ~31:22215799.2 ~32:22/12/2022

2025/05284 ~ Complete ~54:MALT1 INHIBITORS ~71:Janssen Pharmaceutica NV, Turnhoutseweg 30, BEERSE B2340, BELGIUM, Belgium ~72: HULPIA, Fabian;LEPRI, Susan;MOWAT, Jeffrey Stuart;MUURONEN, Mikko Juhani Artturi;PESCHIULLI, Aldo;RENDERS, Evelien;THURING, Johannes Wilhelmus J.;TONA, Veronica;VAN ROOSBROECK, Yves Emiel Maria;VELTER, Adriana-Ingrid;WROBLOWSKI, Berthold~ 33:IB ~31:2022/141337 ~32:23/12/2022

2025/05302 ~ Provisional ~54:SOLAR STEAM TURBINE POWER GENERATION PLANT ~71:BURFORD MARK OFTEBRO, UNIT 9 ROLLING HILLS COUNTRY CLUB 16 AUTUMN DRIVE PRESTONDALE, South Africa ~72: BURFORD MARK OFTEBRO~

2025/05619 ~ Provisional ~54:CARELINK ~71:AMANDA FOURIE, 50A Pickering Street Newton Park, South Africa ~72: Amanda Fourie~

2025/05249 ~ Provisional ~54:SECURE AI ~71:Mohammed Wasimul Haq, 216 Slate Crescent Stoneridge Country Estate, Monavoni, Centurion, South Africa;Waqarul Haq, 216 Slate Crescent Stoneridge Country Estate, Monavoni, Centurion, South Africa ~72: Mohammed Wasimul Haq;Waqarul Haq~

2025/05251 ~ Complete ~54:GRAIN CLASSIFICATION AND RECOGNITION METHOD AND SYSTEM BASED ON IMAGE ANALYSIS ~71:INSTITUTE OF NETWORK TECHNOLOGY (YANTAI), 9-11/F, Building A, Blue Ocean Software Park, No.1 Blue Ocean Road, Yantai High tech Zone, Yantai City, Shandong Province, 264003, People's Republic of China;Shandong Business Institute, No. 15 Haixing Road, High tech Zone, Yantai City, Shandong Province, 264043, People's Republic of China ~72: Chu Jie;Dong Yifan;Gao Xiaoyan;Lin Liyao;Sun Yulin;Wang Bo;Wang Haiyang;Wang Xiaohui;Zhang Wenli;Zhou Qirong~

2025/05263 ~ Complete ~54:NUCLEIC ACID-LIPID PARTICLES ~71:STICHTING AMSTERDAM UMC, 1117, De Boelelaan 1081, Netherlands;UNIVERSITEIT UTRECHT HOLDING B.V., 8, Heidelberglaan 3584, Netherlands ~72: CZENTNER COLOMO, Lucas;DEN HAAN, Johanna Martina Maria;NIJEN TWILHAAR, Maarten Klaas;STORM, Gerrit;VAN NOSTRUM, Cornelus Franciscus~ 33:NL ~31:22214821.5 ~32:20/12/2022

2025/05250 ~ Complete ~54:BIOCHAR-BASED BACTERIAL AGENT, PREPARATION METHOD AND APPLICATION ~71:Bayinguoleng Vocational and Technical College, Korla Economic Development Zone, Korla City, Xinjiang, People's Republic of China ~72: LV Huijie;XU Yonggang;YUAN Xiaowei~

2025/05253 ~ Complete ~54:A WASTEWATER TREATMENT DEVICE FOR WATER RESOURCE REUSE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Junqi Zhang;Kai Liu;Linxu Li;Peixin Zhang;Wenchao Dong;Yiju Tang~

2025/05257 ~ Complete ~54:ARTIFICIAL INTELLIGENCE-BASED SYSTEM AND METHOD FOR FORECASTING FUTURE COMMODITY PRICES USING DEEP LEARNING TECHNIQUES ~71:Dr. Aniket Avinash Muley, Swami Ramanand Teerth Marathwada University, Nanded, 431606, India;Dr. Deepa Kashinath Bogle, H. No. 1-1-487/1 Shanteya, Narayan Patil Nagar, Near Lalwadi Chowk, Shivaji nagar, Nanded, 431602, India;Dr. Gajanan Dattatray Kurundkar, Department of Computer Science, Shri Guru Buddhiswami Mahavidyalay, Purna(Jn.) Dist., Parbhani, 431511, India;Dr. Kashinath Arjun Bogle, Swami Ramanand Teerth Marathwada University, Nanded, 431606, India;Dr. Parag Upendra Bhalchandra, Swami Ramanand Teerth Marathwada University, Nanded, 431606, India;Dr. Santosh Dhondopant Khamitkar, Swami Ramanand Teerth Marathwada University, Nanded, 431606, India;Dr. Suhas Dnyandeo Pachpande, Sant Gadge Baba Amravati University, Amaravati, 444602, India;Dr. Sushant Diwakarrao Deshmukh, M. S. Bidve Engineering College, Barshi Rd, Pakharsangvi, Latur, Maharashtra, 413531, India ~72: Dr. Aniket Avinash Muley;Dr. Deepa Kashinath Bogle;Dr. Gajanan Dattatray Kurundkar;Dr. Kashinath Arjun Bogle;Dr. Parag Upendra Bhalchandra;Dr. Santosh Dhondopant Khamitkar;Dr. Suhas Dnyandeo Pachpande;Dr. Sushant Diwakarrao Deshmukh~

2025/05260 ~ Complete ~54:A METHOD FOR BEET GROWTH MONITORING AND YIELD-QUALITY EVALUATION BASED ON MULTI-SOURCE DATA FUSION AND DEEP LEARNING ~71:INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMALHUSBANDRY SCIENCES, No.22 Zhaojun Road, Yuquan District, People's Republic of China;INSTITUTE OF QUALITY SAFETY AND TESTING FOR AGRICULTURE & ANIMAL HUSBANDRY OF INNER MONGOLIA, No.22 Zhaojun Road, Yuquan District, People's Republic of China ~72: BAO, Junwei;LI, Tiansong;LIU, Wen;REN, Tingting;WANG, Baolin;WULAN, Tuya;ZHANG, Handa~

2025/05278 ~ Complete ~54:DIE ASSEMBLY AND METHOD OF MANUFACTURING A CONTAINER BODY ~71:Crown Packaging Technology, Inc., 18410 Crossing Drive, Suite A, TINLEY PARK 60487-9286, IL, USA, United States of America ~72: GOLDING, Richard Mark Orlando~ 33:US ~31:18/087,172 ~32:22/12/2022;33:GB ~31:2307440.4 ~32:18/05/2023

2025/05282 ~ Complete ~54:SELECTIVE BET INHIBITORS AND USES THEREOF ~71:Tay Therapeutics Limited, Dundee University Incubator, 3 James Lindsay Place, DUNDEE DD1 5JJ, UNITED KINGDOM, United Kingdom ~72: BELL, Mark;STUART, Iain;WOODLAND, Christopher Andrew~ 33:GB ~31:2219706.5 ~32:23/12/2022;33:GB ~31:2219791.7 ~32:28/12/2022;33:GB ~31:2302859.0 ~32:27/02/2023;33:US ~31:63/520,322 ~32:17/08/2023;33:US ~31:63/586,684 ~32:29/09/2023

2025/05289 ~ Complete ~54:NEW MEDICAL USE OF 3A-ETHYNYL-3ß HYDROXYANDROSTAN 17-ONE OXIME ~71:Umecrine Cognition AB, Nanna Svartz Väg 6A, SOLNA 171 65, SWEDEN, Sweden ~72: BLACKBURN, Thomas P.;DOVERSKOG, Magnus;ÖHMAN, Lars~ 33:EP ~31:22216200.0 ~32:22/12/2022

2025/05261 ~ Complete ~54:AN INTELLIGENT DECISION-MAKING METHOD FOR SMART BEET CULTIVATION BASED ON THE SPACE-AIR-GROUND INTEGRATED NETWORK ~71:INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMALHUSBANDRY SCIENCES, No.22 Zhaojun Road, Yuquan District, People's Republic of China;INSTITUTE OF QUALITY SAFETY AND TESTING FOR AGRICULTURE & ANIMAL HUSBANDRY OF INNER MONGOLIA, No.22 Zhaojun Road, Yuquan District, People's Republic of China ~72: BAO, Junwei;JI, Shiyu;LI, Tiansong;LIU, Wen;REN, Tingting;WANG, Baolin;WU, Shengnan;YANG, Chao~

2025/05267 ~ Complete ~54:SALT OF S-OXPRENOLOL ~71:ACTIMED THERAPEUTICS LTD, The Old Bakehouse, United Kingdom;FARADAY PHARMACEUTICALS, INC., 1616 Eastlake Avenue E, Suite 560, United States of America ~72: CALLAHAN, Craig;CHITRE, Saurabh;JOSEPH, Melissa;KELK, Natalie Louise;LAWRENCE, Ronnie Maxwell;MORTEN, Elaine~ 33:GB ~31:2301180.2 ~32:27/01/2023

2025/05276 ~ Complete ~54:SYSTEM, METHOD, AND HIGH-VOLTAGE TEST SIGNAL DEVICE FOR MULTIFUNCTIONAL TESTING OF A HIGH-VOLTAGE DEVICE ~71:OMICRON electronics GmbH, Oberes Ried 1, KLAUS 6833, AUSTRIA, Austria ~72: KAUFMANN, Reinhard;RÄDLER, Michael~ 33:AT ~31:A50984/2022 ~32:21/12/2022

2025/05286 ~ Complete ~54:COMPOSITION ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: DRZEWIECKI, Jacek Jan;PENFOLD, Nicholas Jonathan William~ 33:GB ~31:2219437.7 ~32:21/12/2022

2025/05270 ~ Complete ~54:ACTIVIN RECEPTOR TYPE IIB VARIANTS AND USES THEREOF ~71:35Pharma Inc., 750 Boul. Saint-Laurent, Suite 101, MONTREAL H2Y 2Z4, QUÉBEC, CANADA, Canada ~72: GANESH, Vannakambadi K.;O'CONNOR-MCCOURT, Maureen D.;SCHANG, Gauthier;TREMBLAY, Gilles~ 33:US ~31:63/434,576 ~32:22/12/2022;33:US ~31:63/443,015 ~32:02/02/2023;33:US ~31:63/500,881 ~32:08/05/2023;33:US ~31:63/507,638 ~32:12/06/2023;33:US ~31:63/515,562 ~32:25/07/2023

2025/05275 ~ Complete ~54:INHIBITING SEROTONIN TRANSPORTER PROTEIN (5-HTT) ~71:Sensorium Therapeutics, Inc., 38 Wareham Street, Fl 2, BOSTON 02118, MA, USA, United States of America ~72: HOOKER, Jacob M.;PLACZEK, Michael S.~ 33:US ~31:63/434,726 ~32:22/12/2022

2025/05288 ~ Complete ~54:NOVEL FAS RNAI THERAPEUTICS AND USES THEREOF ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ANTONELLIS, Patrick Joseph;BAWEL, Seth Andrew;HAMANG, Matthew Joseph;JESSOP, Theodore Curtis;LACKNER, Gregory Lawrence;WANG, Jibo;WILSON, Takako~ 33:US ~31:63/476,483 ~32:21/12/2022

2025/05297 ~ Complete ~54:ASSAY METHODS AND KITS ~71:MESO SCALE TECHNOLOGIES, LLC., 1601 Research Boulevard, Rockville, Maryland, 20850, United States of America ~72: GALINA NIKOLENKO;JOHN KENTEN;JOHN ROBERT PETTERSSON~ 33:US ~31:63/476,179 ~32:20/12/2022;33:US ~31:63/497,224 ~32:20/04/2023

2025/05246 ~ Provisional ~54:SYSTEM AND METHOD FOR REAL-TIME MULTIMODAL AI CONTENT GENERATION AND ITERATIVE ENHANCEMENT ~71:Marco Zagato, 22 The Tuscan, Century View, South Africa ~72: MARCO ZAGATO~

2025/05262 ~ Complete ~54:A DESERTIFICATION DEGREE DISCRIMINATION METHOD BASED ON REMOTE SENSING ~71:INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMALHUSBANDRY SCIENCES, No.22 Zhaojun Road, Yuquan District, People's Republic of China;INSTITUTE OF QUALITY SAFETY AND TESTING FOR AGRICULTURE & ANIMAL HUSBANDRY OF INNER MONGOLIA, No.22 Zhaojun Road, Yuquan District, People's Republic of China ~72: BAO, Junwei;JI, Shiyu;LI, Tiansong;WANG, Baolin;WU, Shengnan;WULAN, Tuya;YANG, Chao~

2025/05274 ~ Complete ~54:DELIVERY OF THERAPEUTIC ALKALOID COMPOUNDS ~71:Sensorium Therapeutics, Inc., 38 Wareham Street, Fl 2, BOSTON 02118, MA, USA, United States of America ~72: PETTIT, Simon N.;PLACZEK, Michael S.~ 33:US ~31:63/434,723 ~32:22/12/2022

2025/05277 ~ Complete ~54:ANTIBODIES AGAINST METAPNEUMOVIRUS FUSION (F) PROTEIN AND USES THEREOF ~71:Icosavax, Inc., 1930 Boren Avenue, Suite 1000, SEATTLE 98101, WA, USA, United States of America ~72: FELDHAUS, Andrew L.~ 33:US ~31:63/477,092 ~32:23/12/2022

2025/05295 ~ Complete ~54:LINKERS, DRUG LINKERS AND CONJUGATES THEREOF AND METHODS OF USING THE SAME ~71:GENMAB A/S, Carl Jacobsens Vej 30, 2500, Valby, Denmark ~72: GUOBAO WANG;HAIDONG LIU;XIAO SHANG;XIAOLONG JIANG~ 33:CN ~31:PCT/CN2023/071778 ~32:11/01/2023

2025/05443 ~ Provisional ~54:SYSTEM AND METHOD FOR FACILITATING CASHLESS DIGITAL TIPPING VIA QR CODE AND VIRTUAL WALLET INTEGRATION FOR INFORMAL ECONOMY PARTICIPANTS ~71:Hendrik Rudolph Willemse, 33 Joan Road, South Africa ~72: Hendrik Rudolph Willemse~

2025/05294 ~ Complete ~54:METHOD FOR FORMING WIND TURBINE BLADE AND WIND TURBINE BLADE ~71:SINOMA WIND POWER BLADE CO., LTD., Floor 9-10, Building 7, No. 6, Dongsheng Technology Park, North Street, Haidian District, Beijing, 100083, People's Republic of China ~72: CHEN YAN;CUI CHEN;GANG WANG;JUANJUAN NIU;WEISHENG LIU~ 33:CN ~31:202410809324.3 ~32:21/06/2024

2025/05298 ~ Complete ~54:MINI SYRINGE DRIVER ~71:SENSORION, 375 rue du Professeur Joseph Blayac, 34080, Montpellier, France ~72: ADRIEN BOUILLET;CLÉMENCE CHEDRU~ 33:EP ~31:22306998.0 ~32:22/12/2022

2025/05301 ~ Complete ~54:EDIBLE COATING FOR USE AS A PLANT BIOSTIMULANT ~71:AGROSUSTAIN SA, Rue de Lausanne 64, Switzerland ~72: DUBEY, Olga;DUBEY, Sylvain;GUIGNARD, Florian;PEDRAZZETTI, Matteo;PELLAUD, Sébastien~ 33:EP ~31:22209436.9 ~32:24/11/2022

2025/05255 ~ Complete ~54:AN AGRICULTURAL DROUGHT MONITORING METHOD COVERING A VARIETY OF REMOTE - SENSING DROUGHT INDICES ~71:Henan Remote Sensing Institute, No. 8 Huanghe Road, Jinshui District, Zhengzhou City, Henan Province, 450003, People's Republic of China ~72: CHAO Qidi;FU Jiadi;LI Ruifeng;LI Ying;LIU Jing;LIU Xue;SHI Qinlong;SI Linan;SU Hang;TIAN Xinxin;WANG Lei;YANG Zhen;YU Haikun;YU Shumin;YU Tong;ZHANG Liangge;ZHANG Minghao;ZHANG Shaoliang;ZHANG Tao;ZHOU Junli~

2025/05258 ~ Complete ~54:SYSTEM FOR ENRICHING CLAY MINERALS FROM COAL SLIME AND OPERATION METHOD THEREOF ~71:TAIYUAN UNIVERSITY OF TECHNOLOGY, 79 Yingzexi Street, Taiyuan, People's Republic of China ~72: Hongli, YANG;Lianping, DONG;Minqiang, FAN;Zhihong, LI~ 33:CN ~31:2024117689994 ~32:04/12/2024

2025/05264 ~ Complete ~54:ANTI-ROR-2 ANTIBODIES AND METHODS OF USE ~71:THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, 1111 Franklin Street, 12th Floor, United States of America ~72: KIPPS, Thomas, J.;WIDHOPF II, George, F.~ 33:US ~31:63/478,067 ~32:30/12/2022

2025/05271 ~ Complete ~54:METHOD FOR REDUCTION OF METHANE PRODUCTION IN AND/OR FOR IMPROVING PERFORMANCE OF A RUMINANT ~71:Dansk Landbrugs Grovvareselskab A.m.b.a., Ballesvej 2, Snoghøj, FREDERICIA 7000, DENMARK, Denmark ~72: NIELSEN, Mette Olaf;NØRSKOV, Natalja;RØNN, Marie;THORSTEINSSON, Mirka Mølgaard~ 33:EP ~31:22215461.9 ~32:21/12/2022

2025/05287 ~ Complete ~54:ANTIBODY WHICH BINDS TO ABETAPE3 ~71:BioArctic AB, Warfvinges väg 35, STOCKHOLM 11251, SWEDEN, Sweden ~72: APPELKVIST, Paulina;BOSTRÖM, Emma;MCCLORY, James;MÖLLER, Christer;RACHALSKI, Adeline;SIGVARDSON, Jessica;SÖDERBERG, Linda;TEGERSTEDT, Karin~ 33:EP ~31:22215982.4 ~32:22/12/2022

2025/05296 ~ Complete ~54:TAMPER-EVIDENT CONTAINER ~71:I.G.B. S.R.L., Via Pontaccio, 14, I-20121, Milano, Italy ~72: ALBERTO GANDOLLA;ALESSIO BRESSAN;MICHEL BRESSAN~ 33:IT ~31:102022000026304 ~32:21/12/2022;33:IT ~31:102022000026322 ~32:21/12/2022;33:IT ~31:102022000026343 ~32:21/12/2022

2025/05254 ~ Complete ~54:URBAN MANAGEMENT SYSTEM BASED ON MULTIMODAL DATA ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: Jianfei Zhao;Jie Wang;Linghui Li;Ruijie Xing;Siyuan Li~

2025/05259 ~ Complete ~54:METHOD FOR ESTIMATING NITROGEN IN BEET LEAVES BASED ON HYPERSPECTRAL DATATECHNICAL FIELD ~71:INNER MONGOLIA ACADEMY OF AGRICULTURAL AND ANIMALHUSBANDRY SCIENCES, No.22 Zhaojun Road, Yuquan District, People's Republic of China;INSTITUTE OF QUALITY SAFETY AND TESTING FOR AGRICULTURE & ANIMAL HUSBANDRY OF INNER MONGOLIA, No.22 Zhaojun Road, Yuquan District, People's Republic of China ~72: BAO, Junwei;CHE, Youwei;GUO, Jia;JI, Shiyu;LI, Tiansong;LIU, Wen;LIU, Yangyang;REN, Tingting;WANG, Baolin;WU, Shengnan;WULAN, Tuya;YANG, Chao;YU, Weizhuo~

2025/05266 ~ Complete ~54:NEW BONE TISSUE NEEDLE BIOPSY SAMPLING PATHOLOGICAL KNIFE ~71:DALIAN UNIVERSITY OF TECHNOLOGY, No.2 Linggong Road, Ganjingzi District, Dalian, Liaoning, 116000, People's Republic of China ~72: Guanying YANG;Hong WANG;Jiayu HAO;Jun HUANG;Ling WANG;Rui YANG~ 33:CN ~31:202223559720.0 ~32:30/12/2022

2025/05272 ~ Complete ~54:FERRULE ASSEMBLY, PREFABRICATED OPTICAL FIBER, AND OPTICAL FIBER CONNECTOR ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: LI, Xiupeng;LI, Yuanyuan;TANG, Feng~ 33:CN ~31:202211690913.1 ~32:27/12/2022

2025/05283 ~ Complete ~54:EXTERNAL ENHANCED HEAT TRANSFER SYSTEM FOR PRESSURE VESSEL, AND REACTOR SYSTEM ~71:Shanghai Nuclear Engineering Research & Design Institute Co., Ltd., No. 29 Hongcao Road, Xuhui District, SHANGHAI 200233, CHINA (P.R.C.), People's Republic of China ~72: FU, Tingzao;GUO, Ning;LU, Wei;TIAN, Lin;TONG, Xuan;WANG, Jiayun;YAN, Jinquan;ZHANG, Mengwei;ZHENG, Mingguang~ 33:CN ~31:202211466214.9 ~32:22/11/2022

2025/05293 ~ Complete ~54:WIND POWER BLADE AND CONDUCTIVE FABRIC AND SPAR CAP THEREOF ~71:SINOMA WIND POWER BLADE CO., LTD., Floor 9-10, Building 7, No. 6, Dongsheng Technology Park, North Street, Haidian District, Beijing, 100083, People's Republic of China ~72: CHENGLIANG LI;SHUXIANG MOU;WEIWEI WU;XIANGDONG WANG;XIAOFENG LU~ 33:CN ~31:202411328148.8 ~32:23/09/2024

2025/05300 ~ Complete ~54:ELASTIC TEAT CUP LINER HAVING AN INLET OPENING OF MODULATED ELASTICITY ~71:JAKOB MAIER, Griesstrasse 4, 86842, Türkheim, Germany;WILFRIED HATZACK, Schelmengriesstraße 1, 86842, Türkheim, Germany ~72: JAKOB MAIER;WILFRIED HATZACK~ 33:DE ~31:10 2022 130 739.5 ~32:21/11/2022

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2025/05410 ~ Complete ~54:RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING ~71:BEIJING DAJIA INTERNET INFORMATION TECHNOLOGY CO., LTD., Room 101, 8th Floor, Building 12, No. 16, Xierqi West Road, Haidian District, People's Republic of China ~72: CHEN, Wei;CHEN, Yi-Wen;JHU, Hong-Jheng;KUO, Che-Wei;WANG, Xianglin;XIU, Xiaoyu;YAN, Ning;YU, Bing~ 33:US ~31:63/193,593 ~32:26/05/2021

2025/05444 ~ Provisional ~54:STOCK PILE YIELD ANALYZER ~71:Nhlanhla Ncube, 10 Kirschner road, South Africa ~72: Nhlanhla Ncube~ 33:ZA ~31:1 ~32:20/06/2025

2025/05317 ~ Complete ~54:HUMAN ANTIBODIES TO EBOLA VIRUS GLYCOPROTEIN ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: KYRATSOUS, Christos;MASON, Peter;OLSON, William;STAHL, Neil~ 33:US ~31:62/107,581 ~32:26/01/2015;33:US ~31:62/161,356 ~32:14/05/2015;33:US ~31:62/245,703 ~32:23/10/2015

2025/05332 ~ Complete ~54:MEDICAL TEXT ENTITY-RELATION EXTRACTION METHOD AND SYSTEM BASED ON GRAMMAR ANALYSIS ~71:HAINAN UNIVERSITY, 58 Renmin Avenue, Haikou, Hainan, People's Republic of China ~72: CHEN, Lijun;HUANG, Xiaoou;LI, Jingcan;XIE, Xia~ 33:CN ~31:202310976181.0 ~32:03/08/2023

2025/05346 ~ Complete ~54:POLYPEPTIDES WITH ALTERED BINDING TO NEONATAL FC RECEPTOR (FCRN) AND METHODS OF USE ~71:INVETX INC., 201 Washington Street, Suite 3930, Boston, Massachusetts, 02108, United States of America ~72: WILLIAM BRONDYK~ 33:US ~31:63/477,295 ~32:27/12/2022;33:US ~31:63/598,630 ~32:14/11/2023

2025/05326 ~ Complete ~54:REAGENT FOR DETECTING AGED NEUTROPHILS IN BLOOD AND USE ~71:CENTRAL SOUTH UNIVERSITY, No.932 South Lushan Road, Changsha, Hunan, 410083, People's Republic of China ~72: LI Danyang;LIU Jin;WANG Zeyu;WU Minghua;ZHANG Yan;ZOU Guoying~ 33:CN ~31:202310900510.3 ~32:21/07/2023

2025/05309 ~ Provisional ~54:MODULAR GREEN INFRASTRUCTURE SYSTEM FOR CLIMATE AND AVIATION RISK MITIGATION IN VULNERABLE SETTLEMENTS ~71:Kealeboga Mmolutsi, 6520 gemsbok street, South Africa ~72: Kealeboga Mmolutsi~ 33:ZA ~31:000000 ~32:22/06/2025

2025/05319 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF MOF-74(ZN)-DERIVED OXIDE-SUPPORTED CARBON COMPOSITE MATERIAL THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: HU Jiyong;HUANG Hui;ZENG Yahong~

2025/05330 ~ Complete ~54:VIRAL VECTOR ENCODING GAD FOR TREATING SPASTICITY ~71:EG 427, 29 rue Faubourg Saint-Jacques, France;UNIVERSITY OF COPENHAGEN, Nørregade 10, Denmark ~72: BELLARDITA, Carmelo;FINK, David J;SAREK, Grzegorz F~ 33:FR ~31:2212771 ~32:05/12/2022

2025/05348 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING FUNGAL INFECTIONS ~71:MUCPHARM PTY LTD, 1353 High Street, Malvern, Australia ~72: MORRIS, David~ 33:AU ~31:2022903688 ~32:02/12/2022

2025/05349 ~ Provisional ~54:CROSS-NETWORK TRANSACTION INTEGRITY AND LIQUIDITY MANAGEMENT SYSTEM ~71:FRANCOIS PIERRE JOUBERT, 521, 20TH AVENUE, RIETFONTEIN, South Africa ~72: Francois Pierre Jouber~

2025/05305 ~ Provisional ~54:OFFSET MAGNETIC PLATES AND SELF-REVOLVING COIL CHAMBER ~71:Mikateko elia mlambo, 160 firelily street countryview, South Africa ~72: Mikateko elia mlambo~ 33:ZA ~31:N/A ~32:21/06/2025

2025/05310 ~ Provisional ~54:AN EDUCATION PLATFORM ~71:ALWYN BERNARD DIPPENAAR, 3 TUDOR AVE, SUNNINGHILL, South Africa;SIMBARASHE DUANE ANDREA, FLAT NO 18C, TYNWALD SANGANAYI,, Zimbabwe ~72: SIMBARASHE DUANE ANDREA~

2025/05316 ~ Provisional ~54:VENITOR HELIPLANE ~71:Mikateko elia mlambo, 160 firelily street countryview, South Africa ~72: Mikateko elia mlambo~

2025/05329 ~ Complete ~54:MOLECULE PRODUCTION SYSTEM AND METHOD ~71:COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION, Clunies Ross Street, Acton, Australia ~72: MEAD, Oliver Lachlan~ 33:AU ~31:2022903607 ~32:28/11/2022

2025/05343 ~ Complete ~54:PRODUCTION OF RADIO ISOTOPES ~71:PANTERA, Boeretang 201, 2400, Mol, Belgium ~72: BERTRAND, Samy;DE NEUTER, Sébastien;JACQUET, Patrice;LEYSEN, Willem;MAERTENS, Dominic;STICHELBAUT, Frédéric;VAN DEN BERGHE, Sven~ 33:EP ~31:22211687.3 ~32:06/12/2022

2025/05306 ~ Provisional ~54:AERION VACUUM-BASED MIST RECOVERY SYSTEM FOR MICROGRAVITY ROOT CROP PROPAGATION ~71:GERHARDUS JACOBUS COMBRINK, 6 KATDORING CRESCENT BRACENFELL, South Africa ~72: GERHARDUS JACOBUS COMBRINK~

2025/05327 ~ Complete ~54:HIGH-POWER LASER-SUBMERGED ARC HYBRID DEEP-PENETRATION WELDING METHOD AND APPARATUS FOR THICK PLATES ~71:HARBIN WELDING INSTITUTE LIMITED COMPANY, No. 2077, Chuangxin Road, Songbei District, Harbin, Heilongjiang, 150023, People's Republic of China ~72: FANG,Naiwen;HUANG,Ruisheng;LI,Qi;LIANG,Xiaomei;TENG,Bin;WU,Pengbo;XU,Kai;YIN,Dongkun;ZHANG,Lei; ZHANG,Qingsu;ZHOU,Xin~ 33:CN ~31:202410456147.5 ~32:16/04/2024

2025/05312 ~ Provisional ~54:DIGITAL PLATFORM FOR INTERNATIONAL MONEY REMITTANCE ~71:Zanele Penelope Mhlanga, 28C Parkville Road, South Africa ~72: Jose Beni Yoyo;Mbabazi Eric Katwesige;PROFITSAGE (PTY) LTD~

2025/05322 ~ Complete ~54:PROPAGATION TRAY ~71:Hishtil South Africa (Pty) Ltd, Boschoek Farm, Houtboschdorp Road, MOOKETSI 0825, SOUTH AFRICA, South Africa ~72: ZUKER, Shlomo~

2025/05325 ~ Complete ~54:PROCESSES AND INTERMEDIATES FOR THE PREPARATION OF SPIROCYCLIC KRAS INHIBITORS ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: CHONG, Eugene;LEI, Zhen;REEVES, Jonathan, Timothy;WHITE, Jada A.H.;ZHANG, Yongda~ 33:US ~31:63/385,471 ~32:30/11/2022

2025/05342 ~ Complete ~54:VACCINES AGAINST RESPIRATORY DISEASES ~71:Pfizer Inc., 66 Hudson Boulevard East, NEW YORK 10001-2192, NY, USA, United States of America ~72: BERMAN, Damon Andrew Hollands;CHE, Ye;GRIBENKO, Alexey Vyacheslavovitch;HUANG, Bridget Yih Jiin;LI, Weiqiang;LI, Yan;SWANSON, Kena Anne;WANG, Helen Chen;WELLNITZ, Sabine Susanne;WONG, Kam Ho;YANG, Qi;ZHU,

Aiping~ 33:US ~31:63/480,504 ~32:18/01/2023;33:US ~31:63/586,506 ~32:29/09/2023;33:US ~31:63/610,006 ~32:14/12/2023;33:US ~31:63/611,808 ~32:19/12/2023

2025/05318 ~ Complete ~54:CARBON-COATED NANO-COBALT COMPOSITE MATERIAL, PREPARATION METHOD, AND APPLICATIONS THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: HU Jiyong;HUANG Hui;ZENG Yahong~

2025/05323 ~ Complete ~54:ANTIBODIES TARGETING CD45 ~71:CIMEIO THERAPEUTICS AG, Aeschenvorstadt 36 4051, Switzerland;UNIVERSITÄT BASEL, Petersgraben 35 4003, Switzerland ~72: CAMUS, Anna;DEVAUX, Anna;GROSSJOHANN, Eva-Maria;HAYDN, Anna;JEKER, Lukas;KNEZEVIC, Andreja;LEHMANN, Frank;LEPORE, Rosalba;MATTER-MARONE, Romina;SINOPOLI, Alessandro;URLINGER, Stefanie~ 33:EP ~31:22216653.0 ~32:23/12/2022;33:EP ~31:23188447.9 ~32:28/07/2023

2025/05313 ~ Provisional ~54:MODULAR OFF-GRID SMART REFRIGERATION SYSTEM ~71:Tshegofatso, 140 second avenue, welgedacht, South Africa ~72: Tshegofatso~

2025/05314 ~ Provisional ~54:ELECTROMAGNETIC DEFENSE AND REACTIVE PROTECTION SYSTEM FOR ARMORED VEHICLES ~71:Kamogelo Sentle, 920 Daffodils. Temba, South Africa ~72: Kamogelo Omphile Sentle~

2025/05320 ~ Complete ~54:FARMING INTELLIGENT AGENT BASED ON DEEPSEEK-R1 INFERENCE MODEL ~71:Yangzhou Firefly Network Technology CO.,LTD, 401, Wenhe Culture Industrial Park, Yangzhou City, Jiangsu Province, 225009, People's Republic of China;Yangzhou University, No.88 Daxue South Road, Yangzhou City, Jiangsu Province, 225009, People's Republic of China;ZHANG Huiling, Queens County, New York, NY, 11355, United States of America ~72: LIU Xiaocheng;LIU Xinyuan;ZHANG Huiling;ZHANG Tangjie~

2025/05324 ~ Complete ~54:SEALING OF CUT EDGES OF HOLLOW ARTICLES THAT ARE OPEN AT BOTH ENDS ~71:ENVICAN GMBH, Bühler-Areal 27, 8482, Switzerland ~72: DIAZ, Mario;RESTREPO, Jorge;SCHOENIG, Christoph~ 33:AT ~31:A 60201/2022 ~32:14/12/2022

2025/05333 ~ Complete ~54:SYNTHESIS METHOD FOR TRANSFORMING PYRIDINE INTO AROMATIC DIALDEHYDE ~71:Sichuan University, No. 24, South Section 1, First Ring Road, Chengdu, People's Republic of China ~72: Haiyan FU;Hua CHEN;Jiaqi XU;Meixin YAN;Ruixiang LI;Weichao XUE;Xueli ZHENG;Yonglin SHI~ 33:CN ~31:2024110267775 ~32:30/07/2024

2025/05338 ~ Complete ~54:CRANE ~71:XCMG Construction Machinery Co., Ltd. Building Machinery Co., No.19 Taoshan Road, XUZHOU 221004, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: HAN, Lei;HOU, Wenli;MENG, Jinjun;XIA, Dechang;ZHOU, Yulong~ 33:CN ~31:202310132935.4 ~32:17/02/2023

2025/05347 ~ Complete ~54:FLUID FILTER RETENTION MECHANISM ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: ALWARDT, Tony L.;IMMEL, Jon T.;OEDEWALDT, Stephen E.;SPENGLER, Philip C.;SUTTON, Brian J.~ 33:US ~31:63/434,981 ~32:23/12/2022;33:US ~31:18/132,561 ~32:10/04/2023

2025/05335 ~ Complete ~54:PROCESS FOR THE RECOVERY OF MANGANESE ~71:ELEMENT 25 LIMITED, LEVEL 2, 45 RICHARDSON STREET, WEST PERTH, WESTERN AUSTRALIA, 6872, AUSTRALIA, Australia ~72: GRAHAM, Neil, Jonathan;LIMA, Leon, Wesley~ 33:AU ~31:2022903573 ~32:25/11/2022

2025/05340 ~ Complete ~54:COXIELLA BURNETTI VACCINE ~71:Moredun Research Institute, Pentlands Science Park, Bush Loan, PENICUIK EH26 0PZ, MIDLOTHIAN, UNITED KINGDOM, United Kingdom ~72:

FITZGERALD, Stephen;MCNEILLY, Tom;WILLIAMS-MACDONALD, Sarah~ 33:GB ~31:2218002.0 ~32:30/11/2022;33:GB ~31:2218115.0 ~32:01/12/2022

2025/05344 ~ Complete ~54:SLEEVE SEAL LUBRICATION SYSTEM AND METHOD FOR A GATE VALVE ~71:WEIR MINERALS U.S. INC., 4927 W 2400S, Suite 100, United States of America ~72: BASAVA, Madhukar;RAO, Vineet~ 33:GB ~31:2301557.1 ~32:03/02/2023

2025/05304 ~ Provisional ~54:UPHONDO – A MULTI-LAYERED COMMUNITY CRIME REPORTING, TRACKING, PROTECTION AND EMERGENCY ALERT SYSTEM ~71:Moropa Ashley Alexander Madisha, 13 Gateway Manor Malodie, South Africa ~72: Moropa Ashley Alexander Madisha~

2025/05321 ~ Complete ~54:SYSTEM AND METHOD FOR CALCULATING A MORTALITY RISK SCORE BASED ON AN INDIVIDUAL'S FINANCIAL PROFILE 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~

2025/05331 ~ Complete ~54:PROCESS FOR PRESERVING AND TRANSFORMING ALGAE BY LACTO-FERMENTATION, USE OF THE LACTO-FERMENTED JUICE AND ALGAE OBTAINED ACCORDING TO THE PROCESS ~71:ALGROUPE, P.A des Châtelets, chez Cap Entreprise, 30 avenue des Châtelets, France ~72: MAHE, Stéphane~ 33:FR ~31:2212610 ~32:01/12/2022

2025/05315 ~ Provisional ~54:FILTER FRIEND ~71:PETER BONNER, 8 de GAULLE CRESCENT, South Africa ~72: PETER BONNER;Peter Bonner~

2025/05328 ~ Complete ~54:AUTOMATIC SOFTWARE TESTING METHOD FOR INTELLIGENT CONNECTED VEHICLES ~71:SHANGHAI SUNWIN BUS CORPORATION, No. 18, GuangZhong Road, Minhang District, Shanghai, 201108, People's Republic of China ~72: Jia FANG;Jun ZHANG;Xiaoyu MA~ 33:CN ~31:202311854317.7 ~32:29/12/2023

2025/05303 ~ Provisional ~54:SYSTEM AND METHOD FOR POLICY-ENABLED ESG REPATRIATION OF OFFSHORE CAPITAL THROUGH INCLUSIVE DOMESTIC PARTICIPATION FUNDS ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/05308 ~ Provisional ~54:CLOSED-LOOP, CROP-SPECIFIC MISTING LOGIC FOR AEROPONIC ROOT PROPAGATION SYSTEMS ~71:GERHARDUS JACOBUS COMBRINK, 6 KATDORING CRESCENT, South Africa ~72: GERHARDUS JACOBUS COMBRINK~

2025/05339 ~ Complete ~54:MB2CAS12A VARIANTS WITH ENHANCED EFFICIENCY ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: GENG, Lizhao;SHI, Wan;XU, Jianping~ 33:IB ~31:2023/073490 ~32:27/01/2023

2025/05345 ~ Complete ~54:POLYPEPTIDES WITH ALTERED BINDING TO NEONATAL FC RECEPTOR (FCRN) AND METHODS OF USE ~71:INVETX INC., 201 Washington Street, Suite 3930, Boston, Massachusetts, 02108, United States of America ~72: WILLIAM BRONDYK~ 33:US ~31:63/477,267 ~32:27/12/2022;33:US ~31:63/598,622 ~32:14/11/2023

2025/05334 ~ Complete ~54:PROCESS FOR THE EXTRACTION OF MANGANESE ~71:ELEMENT 25 LIMITED, LEVEL 2, 45 RICHARDSON STREET, WEST PERTH, WESTERN AUSTRALIA, 6872, AUSTRALIA, Australia ~72: GRAHAM, Neil, Jonathan;JAYASEKERA, Sunil;LIMA, Leon, Wesley~ 33:AU ~31:2022903576 ~32:25/11/2022

2025/05337 ~ Complete ~54:VALVE BODY AND SELF-ACTUATED VALVE COMPRISING SAID VALVE BODY ~71:WEIR MINERALS NETHERLANDS B.V., Egtenrayseweg 9, Netherlands ~72: STROEKEN, Johannes~ 33:GB ~31:2300662.0 ~32:17/01/2023

2025/05341 ~ Complete ~54:ACRYLIC RESIN WITH UREIDO FUNCTIONALITY ~71:SWIMC LLC, 101 W. Prospect Avenue, 1100 Midland - Legal Department, CLEVELAND 44115, OH, USA, United States of America ~72: YU, Zhangqing~ 33:US ~31:63/482,638 ~32:01/02/2023

2025/05307 ~ Provisional ~54:ECOPULSE CROP-SPECIFIC LIGHTING METHOD FOR AEROPONIC PROPAGATION CHAMBERS ~71:GERHARDUS JACOBUS COMBRINK, 6 KATDORING CRESCENT BRACKENFELL, South Africa ~72: GERHARDUS JACOBUS COMBRINK~

2025/05311 ~ Provisional ~54:BUOY AND BUOY ASSEMBLY ~71:COCHRANE USA INC, 3551 Lee Hill Dr. Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2025/05336 ~ Complete ~54:LATEX COATING HAVING LOW GRAPHENE CONTENT, USE OF THE LATEX COATING, AND METHOD FOR PRODUCING THE LATEX COATING ~71:G2 ADICOES MINERAIS E QUIMICAS LTDA., Avenida Rebouças, n. 3970 andar 8 conjunto 01, Pinheiros, Brazil ~72: DIAS DA SILVA, Rafael;YVES ROGER RABY, Xavier~

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2025/05363 ~ Complete ~54:MEAT SUBSTITUTE COMPRISING ANIMAL MYOGLOBIN ~71:PALEO B.V., Meilrijk 98, 3290 Diest, Belgium ~72: ANDY DE JONG;HERMES SANCTORUM~ 33:EP ~31:20218000.6 ~32:31/12/2020;33:EP ~31:21174597.1 ~32:19/05/2021

2025/05386 ~ Complete ~54:ALPHA-1-MICROGLOBULIN DERIVED PEPTIDE FRAGMENTS AND USES THEREOF ~71:GUARD THERAPEUTICS INTERNATIONAL AB, Box 5216, 102 45, Stockholm, Sweden ~72: BO ÅKERSTRÖM;PETER GILMOUR;TOBIAS LARSSON AGERVALD~ 33:EP ~31:23155571.5 ~32:08/02/2023;33:DK ~31:PA202370234 ~32:15/05/2023;33:DK ~31:PA202370235 ~32:15/05/2023;33:EP ~31:23209191.8 ~32:10/11/2023

2025/05394 ~ Complete ~54:METHOD, SYSTEM AND MEDIUM FOR AUTOMATIC STATISTICS OF SHIP POWER CONSUMPTION STATUS BASED ON SHIP-SHORE COMMUNICATION GATEWAY MEASURING POINT DATA ~71:COSCO SHIPPING TECHNOLOGY (BEIJING) CO., LTD., Room 15A, Block F, Fuhua Building, No. 8 Chaoyangmen North Street, Dongcheng District, People's Republic of China ~72: LI, Haoning;LIU, Wenwen;SUN, Zhe;WANG, Ping;WU, Xiaofeng;XIE, Chenggong;YE, Xiaolin;ZHANG, Hui~ 33:CN ~31:2025106825364 ~32:26/05/2025

2025/05391 ~ Provisional ~54:UNIVERSAL ENGINE FOR DIAGNOSIS, REVIVAL, UPGRADE, AND EXPANSION OFFUNCTIONALITY IN LEGACY ELECTRONIC DEVICES, SYSTEMS, AND COMPONENTS ~71:The Best Trust Registration No: IT001800/2017(C), 418 Theuns van Niekerk Street. Wierda Park, Centurion, South Africa ~72: Jacques van der Merwe~

2025/05350 ~ Provisional ~54:PRESENTS: FIN-MATIX: A BORDERLESS CRYPTO-FIAT, CRYPTO-CURRENCIY, DIGITAL MONEY TRANSFER AND MICRO-LOAN MOBILE APPLICATION ~71:Thato Morwe, 1044 B.R Semaushu Road, South Africa ~72: Thato Morwe~ 33:ZA ~31:1 ~32:23/06/2025

2025/05352 ~ Provisional ~54:MODULAR AND PORTABLE WATER TANK WITH SPLASH PLATES, SERVICE HATCHES, AND INTELLIGENT PUMP SYSTEM ~71:Daniel Edwin Fourie, 86a marian road, South Africa ~72: Daniel Edwin Fourie~

2025/05362 ~ Complete ~54:COMPOSITIONS AND METHODS FOR CARRYING OUT ASSAY MEASUREMENTS ~71:MESO SCALE TECHNOLOGIES, LLC, 1601 Research Boulevard, Rockville, Maryland, 20850, United States of America ~72: ALEXANDER K TUCKER-SCHWARTZ;GEORGE SIGAL~ 33:US ~31:62/787,892 ~32:03/01/2019

2025/05373 ~ Complete ~54:MODIFIED PLANTS AND PLANT CELLS ~71:No Regrets 2050 Ltd., 8 Hermitage Street, LONDON W2 1BE, UNITED KINGDOM, United Kingdom ~72: KIRKHAM, Simon;PEACOCK, Christopher~ 33:GB ~31:2217740.6 ~32:25/11/2022

2025/05376 ~ Complete ~54:A MONITORING SYSTEM COMPRISING A SELF-POWERED SENSOR ~71:ReVibe Energy AB, Falkenbergsgatan 3, 412 85 Göteborg, 412 85, SWEDEN, Sweden ~72: ERIKSSON, Felix;ILLIPE, Niklas;VIKERFORS, Andreas~ 33:SE ~31:2230448-9 ~32:30/12/2022;33:SE ~31:2330004-9 ~32:05/01/2023

2025/05388 ~ Complete ~54:TLR7 AGONISTS AND ANTIBODY-DRUG-CONJUGATES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: ALINA BAUM;AMY HAN;CHRISTOPHER PETRO;CHRISTOS KYRATSOUS;THOMAS CRAIG MEAGHER;WILLIAM OLSON~ 33:US ~31:63/429,096 ~32:30/11/2022;33:US ~31:63/578,109 ~32:22/08/2023

2025/05351 ~ Provisional ~54:HOTSPOT-AFRICA: CLOUD-BASED NETWORK MANAGEMENT SOFTWARE, ADVANCED WI-FI ROUTER AND INTEGRATED MOBILE APPLICATION AND E- COMMERCE WEBSITE ~71:Thato Morwe, 1044 B.R Semaushu Road, South Africa ~72: Thato Morwe~ 33:ZA ~31:1 ~32:23/06/2025

2025/05356 ~ Provisional ~54:TIMING SYSTEM ~71:VENTER, Henning, FARM GELUKZALIGEN, R44, STELLENBOSCH, SOUTH AFRICA, South Africa;VENTER, Pieter, Christoffel, Robert, FARM GELUKZALIGEN, R44, STELLENBOSCH, SOUTH AFRICA, South Africa ~72: VENTER, Henning;VENTER, Pieter, Christoffel, Robert~

2025/05360 ~ Complete ~54:COMPOSITE MATERIAL FOR TREATING MUNICIPAL SEWAGE AND PREPARATION METHOD THEREOF ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: DONG Wenchao;GAO Yihui;LI Linxu;WANG Lingyun;XING Zhiyang~

2025/05387 ~ Complete ~54:METHOD, SYSTEM AND DEVICE FOR THE CONTROL OF A COMPRESSOR SYSTEM ~71:ATLAS COPCO AIRPOWER, NAAMLOZE VENNOOTSCHAP, Boomsesteenweg 957, 2610 Wilrijk, Belgium;KATHOLIEKE UNIVERSITEIT LEUVEN, KU Leuven R&D, Waaistraat 6 bus 5105, 3000, Leuven, Belgium ~72: RAMIN ABBASI ESFEDEN;WIM VAN ROY~ 33:US ~31:63/477,750 ~32:29/12/2022

2025/05354 ~ Provisional ~54:LIFTING DEVICE ~71:KHAYA ENGINEERING (PTY) LIMITED, 36 Fiat Street, Aureus, South Africa;VAN ASWEGEN, Hendrik Willem Troskie, Heuwilsig 14, South Africa ~72: VAN ASWEGEN, Hendrik Willem Troskie~

2025/05370 ~ Complete ~54:A NON-OCCLUSIVE BALLOON CATHETER ~71:HOOP MEDICAL LIMITED, Unit 2 S&T, Ardcavan Business Park, Ireland ~72: MUDGE, Edward Charles~ 33:ZA ~31:2022/13573 ~32:15/12/2022

2025/05374 ~ Complete ~54:DETERMINING AN OPERATING AREA FOR A VEHICLE ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: KALLIO, Janne;LEHTINEN, Antti~ 33:EP ~31:22212568.4 ~32:09/12/2022

2025/05379 ~ Complete ~54:MUTANT-SELECTIVE EGFR INHIBITORS ~71:Dana-Farber Cancer Institute, Inc., 450 Brookline Avenue, BOSTON 02215, MA, USA, United States of America ~72: GERO, Thomas;SCOTT, David A.~ 33:US ~31:63/479,487 ~32:11/01/2023

2025/05385 ~ Complete ~54:HETEROCYCLIC AND HETEROARYL COMPOUNDS AS INHIBITORS OF NLRP3 ~71:PTC THERAPEUTICS, INC., 500 Warren Corporate Center Drive, Warren, New Jersey, 07059, United States of America ~72: EDUARDO HUARTE;ERICA N PARKER;ETTORE RASTELLI;HANDOKO;HUA GONG;JING LI;LAUREN BEJCEK;MATTHEW G WOLL;MEENU PILLAI;NADIYA SYDORENKO;NANJING ZHANG;RAUFUL ALAM;SEYEDMORTEZA HOSSEYNI;TIANYI ZHENG;XIAOYAN ZHANG;YAO LIU~ 33:US ~31:63/477,864 ~32:30/12/2022;33:US ~31:63/503,344 ~32:19/05/2023

2025/05357 ~ Provisional ~54:INTERLOCKING, STACKABLE CONTAINERS ~71:APL CARTONS (PTY) LTD, Abattoir Road, South Africa ~72: BOTES, Marthinus Ryk~

2025/05359 ~ Complete ~54:METHOD AND SYSTEM FOR FAULT PREDICTION IN SPATIAL LIGHT MODULATORS BASED ON MACHINE LEARNING ~71:Henan University of Urban Construction, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: REN Yixin~

2025/05365 ~ Complete ~54:UNMANNED AERIAL VEHICLE INSPECTION SYSTEM ~71:FUXING (ZHEJIANG) DIGITAL TECHNOLOGY CO., LTD, NO. 906 ASIA PACIFIC ROAD, DAQIAO TOWN, NANHU DISTRICT, JIAXING CITY,, People's Republic of China ~72: GE, Liuqiang;GUO, Donghui;GanYu;LI, Kai;LI, Zeang;MA, Xihe;SHEN, Fenglei;SONG, Zhenfeng;SU, Yuping;WANG, Yedong;XIAO, Huajie;XIAO, Kelin;ZHAN, Kui;ZHANG, Haochen;ZHOU, Ying~

2025/05371 ~ Complete ~54:ANTI-CD1A ANTIBODIES ~71:OXFORD UNIVERSITY INNOVATION LIMITED, Buxton Court, 3 West Way, United Kingdom ~72: CHEN, Yi-Leng;HARDMAN, Clare;OGG, Graham;ROSSJOHN, Jamie;WEGRECKI, Marcin~ 33:GB ~31:2217923.8 ~32:29/11/2022

2025/05380 ~ Complete ~54:SYSTEM AND METHOD FOR OPTIMIZING COMBUSTION IN A BOILER ~71:General Electric Technology GmbH, Brown Boveri Strasse 8, BADEN 5400, SWITZERLAND, Switzerland ~72: FERRY, Allan Gunn;KUKAR, Oleg~ 33:US ~31:63/438,840 ~32:13/01/2023

2025/05384 ~ Complete ~54:PYRAZOLE FUSED RING COMPOUND, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:ASIERIS PHARMACEUTICALS (SHANGHAI) CO., LTD., 12F, Building 56, No.1000 Jinhai Road, City of Elite, Pudong New Area, Shanghai 201203, People's Republic of China;JIANGSU YAHONG MEDITECH CO., LTD., D-1009, New Drug Innovation Base, No. 1, Yaocheng Avenue, CMC Taizhou, Jiangsu, 225316, People's Republic of China ~72: CHENG PENG;HAIFENG SONG;JINGMIN GUAN;LU XIAO;TIELIN WANG~ 33:CN ~31:202211728240.4 ~32:30/12/2022;33:CN ~31:202310333126.X ~32:30/03/2023

2025/05389 ~ Complete ~54:A PERSONAL CARE COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: BARRY GERARD MURPHY;CHUNG-CHING CHU;RUPAK MITRA;VINITHA KADAMKODE~ 33:CN ~31:PCT/CN2023/074739 ~32:07/02/2023;33:EP ~31:23161797.8 ~32:14/03/2023

2025/05358 ~ Complete ~54:METHOD AND SYSTEM FOR NONDESTRUCTIVE DETECTION OF PHOTOVOLTAIC PANEL SURFACE DAMAGE BASED ON MACHINE VISION ~71:Henan University of Urban Construction, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: REN Yixin~

2025/05364 ~ Complete ~54:GELATINOUS BLAST SHOCKWAVE PROPAGATOR COMPOSITION ~71:Blast Assist (Pty) Ltd, 98 Armstrong Avenue, Block 2 Ground Floor, La Lucia Ridge, South Africa ~72: GRAHAM, Michael~ 33:ZA ~31:2024/02440 ~32:27/03/2024

2025/05366 ~ Complete ~54:METHOD FOR ENHANCING THERAPEUTIC EFFICACY THROUGH ELEVATING HUMAN BODY TEMPERATURE GUIDANCE IN TRADITIONAL CHINESE MEDICINE ONCOLOGY ~71:LIU, Xianhua, Yunnan Road,Gulou District,Nanjing City, People's Republic of China ~72: LIU, Xianhua~

2025/05378 ~ Complete ~54:BIODEGRADABLE ARTICLES COMPRISING DECOMPOSITION PRODUCTS FROM BIODEGRADABLE MATERIALS AND RELATED METHODS ~71:BIOHM Ltd., 5a Juno Way, LONDON SE14 5RW, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: BARNETT, Irene Li;SAYED, Ehab;VERDEROSA, Francesco;WOODS, Jonathan~ 33:US ~31:63/436,471 ~32:30/12/2022

2025/05382 ~ Complete ~54:ARTICLE OF HEADGEAR, MOUNTING CLIPS, AND ACCESSORIES ~71:JSP LIMITED, Worsham Mill, Minster Lovell, Witney, United Kingdom ~72: JOHNSTONE, Clive;SANDERS, Steve;WYLD, Jack~ 33:GB ~31:2217708.3 ~32:25/11/2022

2025/05361 ~ Complete ~54:A POSITION SENSOR AND FOCUS CONTROL SYSTEM ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: LE ROUX, Willem Gabriel;McGEE, Duncan Sean~ 33:ZA ~31:2024/06700 ~32:30/08/2024

2025/05367 ~ Complete ~54:REAL-TIME ADAPTIVE TRAFFIC CONTROL SYSTEM USING AI AND VEHICLE-TO-INFRASTRUCTURE (V2I) COMMUNICATION ~71:Dr. Raghavendra Reddy Nadiga Vijayendra, Associate Professor, Department of Mechanical Engineering, RV Institute of Technology and Management, JP Nagar, Bengaluru, Karnataka, 560076, India;Dr. Roopashree Shailendra, Assistant Professor, Department of Computer Science & Engineering, RV Institute of Technology and Management, JP Nagar, Bengaluru, Karnataka, 560076, India;Dr. Salangai Nayagi Dharuman, Assistant Professor, School of Computer Science & Engineering, Galgotias University, Yamuna Expy, opposite Buddha International Circuit, Sector 17A, Greater Noida, Uttar Pradesh, 203201, India;Dr. Solaimuthu Chandrakasan, Head, Department of Mechanical Engineering, RV Institute of Technology and Management, JP Nagar, Bengaluru, Karnataka, 560076, India;Dr. Sreenivasa Thappaganadoodi Nagabushnasharma, Registrar (Evaluation), Visvesvaraya Technological University “Jnana Sangama”, Belagavi, Karnataka, 590018, India;Mr. Jayaramu Madegowda, Assistant Professor, Department of Master of Computer Applications, RV Institute of Technology and Management, JP Nagar, Bengaluru, Karnataka, 560076, India;Mr. Siddesh Kumar Timmalapura Lingappa, Assistant Professor, Department of Agricultural Engineering, SEA College of Engineering & Technology, Ekta Nagar Post, Basavanapura Rd, Lourdu Nagar, Virgonagar, Krishnarajapuram, Bengaluru, Karnataka, 560049, India;Mrs. Bhavya Narayana Javagal, Assistant Professor, Department of Computer Science & Engineering, RV Institute of Technology and Management, JP Nagar, Bengaluru, Karnataka, 560076, India ~72: Dr. Raghavendra Reddy Nadiga Vijayendra;Dr. Roopashree Shailendra;Dr. Salangai Nayagi Dharuman;Dr. Solaimuthu Chandrakasan;Dr. Sreenivasa Thappaganadoodi Nagabushnasharma;Mr. Jayaramu Madegowda;Mr. Siddesh Kumar Timmalapura Lingappa;Mrs. Bhavya Narayana Javagal~

2025/05372 ~ Complete ~54:BICYCLIC ABASIC NUCLEIC ACID ANALOGS AND OLIGOMERIC COMPOUNDS PREPARED THEREFROM ~71:Shanghai Argo Biopharmaceutical Co., Ltd., J2026, Room 1_203, 337 Shahe Road, Jiangqiao Town Jiading District, SHANGHAI 201803, CHINA (P.R.C.), People's Republic of China ~72: SHAO, Pengcheng Patrick;SHU, Dongxu~ 33:CN ~31:202211534279.2 ~32:02/12/2022

2025/05375 ~ Complete ~54:METHOD AND SCHEDULING SYSTEM FOR GENERATING A DRIVING SCHEDULE FOR A BATTERY ELECTRIC MINING VEHICLE ~71:ABB Schweiz AG, Bruggerstrasse 66, BADEN CH-5400, SWITZERLAND, Switzerland ~72: ASTRAND, Max;LINDKVIST, Rickard;ONNERLOV, Lisa~

2025/05383 ~ Complete ~54:SECURITY SENSOR UNIT, SECURITY SENSOR UNIT CONTROL METHOD, CONTROL PROGRAM, AND RECORDING MEDIUM ~71:OPTEX CO., LTD., 5-8-12, Ogoto, Otsu-shi, Shiga, 520-0101, Japan ~72: FUMIKATSU SONE;HIROSHI SANETO;HIROYUKI IKEDA;TAKASHI KONDO~

2025/05353 ~ Provisional ~54:HIGH-CAPACITY MULTI-RADIO BACKHAUL NODE FOR WIRELESS-FIBRE HYBRID NETWORKS ~71:Johan Antonie Jacobs, 17 Egret street, Groenvallei,, South Africa ~72: Johan Antonie Jacobs~

2025/05369 ~ Complete ~54:GLUCAGON-LIKE-PEPTIDE-2 (GLP-2) ANALOGUES AND THEIR MEDICAL USES FOR THE TREATMENT OF SHORT BOWEL SYNDROME (SBS) ~71:ZEALAND PHARMA A/S, Sydmarken 11, Denmark ~72: BIILMANN RØNN, Birgitte;BJERGLUND GRAFF, Lykke;SCHÜTT SVANE NIELSEN, Thor~ 33:EP ~31:23153788.7 ~32:27/01/2023

2025/05377 ~ Complete ~54:RUN FLAT SYSTEM HAVING A SPRING SUSPENSION ~71:Hutchinson S.A., 2 Rue Balzac, PARIS 75008, FRANCE, France ~72: BUCK, Kevin;BÉLANGER, Germain;HARVEY, Derek;HOBE, Peter Kenneth;LEVESQUE, Martin;RESARE, Lars Johan;SCALA, Jason;STUCK, Larry W.~ 33:US ~31:63/386,574 ~32:08/12/2022

2025/05390 ~ Complete ~54:PIPE CLAMPING APPARATUS ~71:KIBOSH LTD, Unit 9 Huddersfield Street, Galashiels, TD1 3BF, United Kingdom ~72: ROSS DICKINSON~ 33:GB ~31:2218034.3 ~32:30/11/2022

2025/05355 ~ Provisional ~54:JUNCTION BOX ~71:SPIES, Desmond John, 44 High Road, South Africa ~72: SPIES, Desmond John~

2025/05368 ~ Complete ~54:A SYSTEM FOR HEALTH MONITORING AND DATA TRANSMISSION ~71:AKHTER, Nazneen, PLOT NO. 16/A, LANE 3, AURANGABAD TIMES COLONY, AURANGABAD, MAHARASHTRA, 431001, India;DESHMUKH, Prapti Devidas, DR. G. Y. PATHRIKAR COLLEGE OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, MGM UNIVERSITY, AURANGABAD, MAHARASHTRA, 431001, India;KAZI, Majharoddin Mumtajmiyan, BILL GATES INSTITUTE OF COMPUTER SCIENCE AND MANAGEMENT, DHARASHIV (OSMANABAD), MAHARASHTRA, India;NAIKNAWARE, Bharat, DR. G. Y. PATHRIKAR COLLEGE OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, MGM UNIVERSITY, AURANGABAD, MAHARASHTRA, 431001, India;NISHAT, Syeda Ruhi, HOUSE NO 36, NEAR CLICK HOTEL N11, HUDCO AURANGABAD, MAHARASHTRA, INDIA – 431001, India;PATEL, Saniya Raheen, DR. G. Y. PATHRIKAR COLLEGE OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, MGM UNIVERSITY, AURANGABAD, MAHARASHTRA, 431001, India;RAZVI, Arshad Moizuddin, PRINCIPAL, BILL GATES INSTITUTE OF COMPUTER SCIENCE AND MANAGEMENT, DHARASHIV (OSMANABAD), MAHARASHTRA, India;SHAIKH, Shazia, DR. G. Y. PATHRIKAR COLLEGE OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY, MGM UNIVERSITY, AURANGABAD, MAHARASHTRA, 431001, India;SURSE, Saurabh Sitaram, DEPARTMENT OF PHYSICS, SCHOOL OF BASIC AND APPLIED SCIENCE, MGM UNIVERSITY, CHHATRAPATI SAMBHAJINAGAR, AURANGABAD, MAHARASHTRA, 431001, India ~72: AKHTER, Nazneen;DESHMUKH, Prapti Devidas;KAZI, Majharoddin Mumtajmiyan;NAIKNAWARE, Bharat;NISHAT, Syeda Ruhi;PATEL, Saniya Raheen;RAZVI, Arshad Moizuddin;SHAIKH, Shazia;SURSE, Saurabh Sitaram~

2025/05381 ~ Complete ~54:TERNARY COMPOSITION COMPRISING 3-SUBSTITUTED PHENYLAMIDINE COMPOUNDS AND USE THEREOF ~71:PI Industries Ltd., Udaisagar Road, UDAIPUR 313001, RAJASTHAN, INDIA, India ~72: AUTKAR, Santosh Shridhar;C R, Siddaramaiah;MAHAJAN, Vishal A.;VENKATESHA, Hagalavadi M~ 33:IN ~31:202311000362 ~32:03/01/2023

2025/05392 ~ Provisional ~54:UNIVERSAL LEGACY SOFTWARE AUGMENTATION AND MODERNIZATION ENGINE ~71:The Best Trust Registration No: IT001800/2017(C), 418 Theuns van Niekerk Street. Wierda Park, Centurion, South Africa ~72: Jacques van der Merwe ~

. - APPLIED ON 2025/06/25 -

2025/05408 ~ Complete ~54:A TURNOVER FACILITY STRUCTURE AND CONSTRUCTION METHOD AFTER FORMWORK SUPPORT DISMANTLING WITHIN A FLOOR ~71:CHINA CONSTRUCTION EIGHTH BUREAU SECOND CONSTRUCTION CO., LTD., 17th Floor, Unit 1, Office Building, Phase II, Zhongjian Culture City, No. 16, East Cullture Road, Lixia District, Jinan City, People's Republic of China ~72: DING, Yi;HE, Dengchao;LEI, Ming;TANG, Weitong;WU, Pengyuan~

2025/05416 ~ Complete ~54:MIXTURES OF FROTHING AGENTS FOR FLOTATION OF ORES ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: CHIPFUNHU, Daniel;DIERSCHKE, Frank;SOBOTKA, Bettina;STEWART, Graeme, Levi~ 33:EP ~31:22210780.7 ~32:01/12/2022

2025/05420 ~ Complete ~54:NEW BACILLUS SUBTILIS STRAINS PRODUCING NEW MYCOSUBTILIN ISOFORMS ~71:LIPOFABRIK, PARC D'ACTIVITÉ DU MÉLANTOIS, 917 RUE DES SAULES, 59810 LESQUIN, FRANCE, Afghanistan;UNIVERSITE DE LILLE, 42 RUE PAUL DUEZ, 59800 LILLE, FRANCE, France ~72: COUTTE, François;DELECROIX, Arnaud;DHALI, Debarun;JACQUES, Philippe;KAR, Tambi;YASEEN, Yazen~ 33:FR ~31:FR2212465 ~32:29/11/2022

2025/05423 ~ Complete ~54:COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Dongwei FAN;Venkata Sai Ananth CHALLA~

2025/05438 ~ Complete ~54:PROTEIN TYROSINE KINASE INHIBITOR AND MEDICAL USE THEREOF ~71:BEYANG THERAPEUTICS CO., LTD., E814, Building 5, No.218 Sangtian Street, Suzhou Industrial Park, People's Republic of China ~72: HU, Qiyue;HU, Weimin;LIU, Suxing~ 33:CN ~31:202211695647.1 ~32:28/12/2022

2025/05396 ~ Complete ~54:FLOOR WIPING APPARATUS FOR SPORTS BASKETBALL TRAINING COURT ~71:Shandong University of Finance and Economics, No. 7366, Second Ring East Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Xiaoping YUAN~

2025/05406 ~ Complete ~54:DATA QUALITY RULE RECOMMENDATION METHOD, SYSTEM, ELECTRONIC DEVICE, AND MEDIUM BASED ON INTELLIGENT ALGORITHMS ~71:COSCO SHIPPING TECHNOLOGY(BEIJING) CO., LTD., Room 15A, Block F, Fuhua Building, No. 8 Chaoyangmen North Street, Dongcheng District, People's Republic of China ~72: LI, Haoning;LIU, Wenwen;SUN, Zhe;WEI, Mingming;WU, Xiaofeng;YE, Xiaolin;ZHANG, Hui~ 33:CN ~31:2025106272421 ~32:15/05/2025

2025/05411 ~ Complete ~54:SOLID DISPERSION COMPRISING AMORPHOUS 2-[3-[4-(1H-INDDAZOL-5-YLAMINO)QUINAZOLIN-2-YL]PHENOXY]-N-PROPAN-2-YL-ACETAMIDE ~71:KADMON CORPORATION, LLC, 55 Corporate Drive, Bridgewater, United States of America ~72: REGEV, Galit;SCHUELLER, Olivier~ 33:US ~31:63/428,552 ~32:29/11/2022;33:EP ~31:23305196.0 ~32:14/02/2023

2025/05424 ~ Complete ~54:ENCODING AND DECODING METHOD, CODEC, BITSTREAM, AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road Wusha Chang'an, Dongguan, Guangdong, 523860, People's Republic of China ~72: HONGLI ZHANG;JUNYAN HUO;MING LI;RUIPENG QIU;YANZHUO MA~

2025/05427 ~ Complete ~54:VARIABLE VISCOSITY INKS FOR INKJET DELIVERY OF ENZYME REAGENTS ~71:DNA SCRIPT, Immeuble Okabé, 67 Avenue De Fontainebleau, 94270, Le Kremlin-Bicetre, France ~72: ADRIAN HORGAN;BEATRICE ADELIZZI;DAMIANO VERARDO~ 33:EP ~31:22315362.8 ~32:31/12/2022

2025/05430 ~ Complete ~54:IL-17A MODULATORS ~71:Usynova Pharmaceuticals, Ltd., 2nd Floor, Building 8, No. 88 Darwin Road, China (Shanghai) Pilot Free Trade Zone, Pudong New Area, SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: PENG, Shengbin;SANG, Yingxia;SUN, Tongkun;WU, Shenghua;XU, Chuqing;ZHAO, Zhiming;ZHOU, Fangshuai;ZHOU, Shaoqing~ 33:IB ~31:2022/141768 ~32:26/12/2022

2025/05434 ~ Complete ~54:PROTEASE VARIANTS AND USES THEREOF ~71:Seismic Therapeutics, Inc., 250 Arsenal Place, Suite 210, WATERTOWN 02142, MA, USA, United States of America ~72: ANDERSON, Jordan;HIGGINSON-SCOTT, Nathan;MASCANFRONI, Ivan;OTIPOBY, Kevin Lewis;PECKNER, Ryan;PELLERIN, Alex;ROLLINS, Nathan;XING, Yi;ZHOU, Yanfeng~ 33:US ~31:63/478,789 ~32:06/01/2023;33:US ~31:63/483,142 ~32:03/02/2023;33:US ~31:63/493,450 ~32:31/03/2023;33:US ~31:63/506,539 ~32:06/06/2023;33:US ~31:63/600,157 ~32:17/11/2023

2025/05439 ~ Complete ~54:MANUFACTURING PROCESS FOR HYBRID LIPID PARTICLES ~71:SISAF LTD, 8 Frederick Sanger Road, United Kingdom ~72: DEHSORKHI, Ashkan;SAFFIE-SIEBERT, Roghieh Suzanne;TORABI-POUR, Nasrollah~ 33:GB ~31:2300914.5 ~32:20/01/2023

2025/05398 ~ Complete ~54:SET SHOT TRAINING APPARATUS FOR BASKETBALL SPORTS TRAINING ~71:Shandong University of Finance and Economics, No. 7366, Second Ring East Road, Lixia District, Jinan City, Shandong Province, People's Republic of China ~72: Xiaoping YUAN~

2025/05401 ~ Complete ~54:METHOD FOR PRODUCING CONTAINERBOARD ~71:MONDI AG, Marxergasse 4A, 1030 Wien, Austria ~72: JUKKA SILVENNOINE;LAURA RUIZ;MARVIN MOEHLE~ 33:EP ~31:24186162.4 ~32:03/07/2024

2025/05403 ~ Complete ~54:PDE9 INHIBITORS FOR TREATING SICKLE CELL DISEASE ~71:Cardurion Pharmaceuticals, Inc., 78 Blanchard Road, Suite 200, BURLINGTON 01803, MA, USA, United States of America ~72: CALAMAI, Edward George;DEHART, Michael Paul;DOBBINS, Deborah Lynn Leithead;FOO, Shi Yin;MCARTHUR, James~ 33:US ~31:62/725,725 ~32:31/08/2018

2025/05409 ~ Complete ~54:A ROTATABLE ADAPTIVE-CURVATURE LUMINOUS METAL PANEL SYSTEM ~71:CHINA CONSTRUCTION EIGHTH BUREAU SECOND CONSTRUCTION CO., LTD., 17th Floor, Unit 1, Office Building, Phase II, Zhongjian Culture City, No. 16, East Cullture Road, Lixia District, Jinan City, People's Republic of China ~72: JIANG, Lianxin;JING, Wei;KONG, Chenguang;QIAO, Chunlei;WANG, Huacheng~

2025/05414 ~ Complete ~54:METHODS OF PRODUCING HYDROGEL MICROSPHERES ~71:ASCENDIS PHARMA A/S, TUBORG BOULEVARD 12, 2900 HELLERUP, DENMARK, Denmark ~72: BREITENBACH, Benjamin;KNAPPE, Thomas;PREUSS, Till;ROESSEL, Carsten;SAUER, Dennis;STARK, Sebastian;VOIGT, Tobias~ 33:EP ~31:23150461.4 ~32:05/01/2023;33:EP ~31:23198176.2 ~32:19/09/2023

2025/05428 ~ Complete ~54:ORIFICE RING INCORPORATING A MAX PHASE MATERIAL ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: JONATHAN GRANT;YA-CHENG LIN~ 33:US ~31:18/097,169 ~32:13/01/2023

2025/05433 ~ Complete ~54:MELT TRANSIENT REACTION SIMULATION DEVICE AND SIMULATION METHOD ~71:Shanghai Nuclear Engineering Research & Design Institute Co., Ltd., No. 29 Hongcao Road, Xuhui District, SHANGHAI 200233, CHINA (P.R.C.), People's Republic of China ~72: CAO, Kemei;GUO, Ning;LU,

Wei;TIAN, Lin;WANG, Jiayun;WANG, Zhengyuan;YAN, Jinquan;ZHANG, Kun;ZHANG, Mengwei;ZHENG, Mingguang~ 33:CN ~31:202211500815.7 ~32:28/11/2022

2025/05418 ~ Complete ~54:PRIDOPIDINE FOR TREATING JUVENILE HUNTINGTON'S DISEASE ~71:PRILENIA NEUROTHERAPEUTICS LTD., Greenwork Complex Yakum, Building D, 1st floor, Israel ~72: GEVA, Michal;GOLDBERG, Yigal Paul;HAYDEN, Michael~ 33:US ~31:63/477,227 ~32:27/12/2022

2025/05422 ~ Complete ~54:COLD ROLLED AND HEAT TREATED STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Dongwei FAN;Hyo Jin SONG;Venkata Sai Ananth CHALLA~

2025/05393 ~ Provisional ~54:ADAPTIVE GRADING STUDENT AND DOJO ELIGIBILITY MANAGEMENT SYSTEM FOR ALL TYPES MARTIAL ARTS ORGANIZATIONS ~71:Izél Baker, 42 Park Ln, South Africa ~72: Izél Baker~ 33:ZA ~31:1 ~32:16/06/2025

2025/05395 ~ Complete ~54:PCR DETECTION METHOD OF PORCINE BOCAVIRUS G3 SUBTYPE AND APPLICATION THEREOF ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, People's Republic of China ~72: FU Pengfei;LI Bing;LU Min;WANG Yanhong~

2025/05399 ~ Complete ~54:A METHOD OF, AND A SYSTEM FOR, MILK CHILLING AND STORAGE, WITHIN A RURAL SETTING ~71:Agri Business Network (Pty) Limited, De Villiers Brink Street, South Africa ~72: Agri Business Network (Pty)Ltd~

2025/05404 ~ Complete ~54:LOAD CARRYING HYDRAULIC TRANSFER UNIT ~71:CONAX MACHINE SOLUTIONS (PTY) LIMITED, Industrial Park, 58 Watt Road, New Era, South Africa ~72: JOHANNES JACOBUS NAUDE~ 33:ZA ~31:2024/03953 ~32:22/05/2024

2025/05412 ~ Complete ~54:VENGLUSTAT IN COMBINATION WITH A STRONG OR MODERATE INHIBITOR OF CYP3A4 ~71:GENZYME CORPORATION, 450 Water Street, Cambridge, Massachusetts, United States of America ~72: CRAWFORD, Nigel Patrick Somerville;LI, Li;SHARMA, Jyoti;ZHANG, Yan-Yan~ 33:US ~31:63/429,338 ~32:01/12/2022

2025/05421 ~ Complete ~54:TREATMENT OF CANCER WITH A COMBINATION OF AN ANTIBODY THAT BINDS EGFR AND CYTOTOXIC DRUGS ~71:MERUS N.V., Uppsalalaan 17, 3e en 4e verdieping, Netherlands ~72: LAMMERTS VAN BUEREN, Jeroen Jilles;THROSBY, Mark~ 33:NL ~31:2033862 ~32:28/12/2022

2025/05431 ~ Complete ~54:PSEUDORABIES VIRUS LIVE ATTENUATED VACCINE FOR PIGS, COMPRISING A DELETION OF GENE UL23 ~71:Zoetis Services LLC, 10 Sylvan Way, PARSIPPANY 07054, NJ, USA, United States of America ~72: HUANG, JinAn;KONG, YiBo;LI, Haiyan;LIU, Can;LIU, Qiaoran;SHANG, Yunpeng;SUN, Dong~ 33:CN ~31:202211706622.7 ~32:29/12/2022

2025/05437 ~ Complete ~54:PEPTIDE AND USE THEREOF ~71:StemRIM Inc., 3FL, Saito Biotechnology Incubator, 7-15, Saito-Asagi 7-chome, IBARAKI-SHI 5670085, OSAKA , JAPAN, Japan;The University of Osaka, 1-1, Yamadaoka, SUITA-SHI 5650871, OSAKA, JAPAN, Japan ~72: SHIMBO, Takashi;TAMAI, Katsuto;YAMAZAKI, Takehiko~ 33:JP ~31:2022-209604 ~32:27/12/2022

2025/05402 ~ Complete ~54:INHIBITION OF EOSINOPHILIC TRAPS ~71:Citryll B.V., Kloosterstraat 9, OSS 5349 AB, THE NETHERLANDS, Netherlands ~72: CHIRIVI, Renato Gerardus Silvano;MELDRUM, Eric Charles;MONTIZAAN, Daphne;VAN ES, Helmuth Hendrikus Gerardus~ 33:EP ~31:21172160.0 ~32:04/05/2021;33:GB ~31:2111541.5 ~32:11/08/2021

2025/05405 ~ Complete ~54:MODULAR REARING DEVICE FOR A SPIDER ECOLOGICAL UNIT ~71:Institute of Nanfan & Seed Industry, Guangdong Academy of Sciences, No. 10, Shiliugang Road, Haizhu District, Guangzhou City, Guangdong Province, People's Republic of China ~72: CHANG Hailong;CHENG Yinjie;LI Jihu;MAO Yongkai;WANG Qinnan;WU Jiantao~

2025/05413 ~ Complete ~54:ARTWORK REMOTE AUTHENTICATION SYSTEM ~71:BLAIR, Preston, 317 West 99th Street, Apt 5C New York, United States of America ~72: BLAIR, Preston~ 33:US ~31:63/385,743 ~32:01/12/2022;33:US ~31:63/582,194 ~32:12/09/2023

2025/05417 ~ Complete ~54:CHEMOENZYMATIC SYNTHESIS OF POLYKETIDES ~71:ASPERA BIOMEDICINES, INC., 9310 ATHENA CIRCLE, LA JOLLA, CALIFORNIA 92037, USA, United States of America ~72: BURKART, Michael, D.;JAMIESON, Catriona, H. M.;LA CLAIR, James, J.~ 33:US ~31:63/429,356 ~32:01/12/2022;33:US ~31:63/432,011 ~32:12/12/2022

2025/05419 ~ Complete ~54:ANTIBODIES DIRECTED TO CLAUDIN 6, INCLUDING BISPECIFIC FORMATS THEREOF ~71:INTEGRAL MOLECULAR, INC, ONE uCITY SQUARE, 25 N. 38TH STREET, SUITE 800, PHILADELPHIA, PA 19104, USA, United States of America ~72: DOOLAN, Kyle;RUCKER, Joseph~ 33:US ~31:63/385,535 ~32:30/11/2022;33:US ~31:63/496,174 ~32:14/04/2023;33:US ~31:63/506,533 ~32:06/06/2023;33:US ~31:63/517,668 ~32:04/08/2023;33:US ~31:63/591,924 ~32:20/10/2023

2025/05436 ~ Complete ~54:METHOD AND DEVICE FOR DELIVERING VIABLE MICROORGANISMS IN SEED LUBRICANT TO SEED SUPPLY ~71:Meristem Crop Performance Group, LLC, 489 Village Pointe Drive, POWELL 43065, OH, USA, United States of America ~72: EVISTON, Mitchell~ 33:US ~31:63/434,588 ~32:22/12/2022

2025/05400 ~ Complete ~54:REDUCING SCINTILLATION NOISE IN FREE SPACE OPTICAL COMMUNICATIONS ~71:ATTOCHRON, LLC, P.O. Box 1036, United States of America ~72: CHAFFEE, Thomas M.;COLANGELO, Taz M.;GREGORY, Brian M.;KNOX, Wayne H.;LEBON, Alexander B.~ 33:US ~31:17/932,364 ~32:15/09/2022

2025/05407 ~ Complete ~54:A METHOD FOR IDENTIFYING DUCK MEAT ADULTERATION IN MUTTON ~71:SHANDONG ACADEMY OF AGRICULTURAL SCIENCE, 202 Gongye (Industrial North Road), Licheng District, Jinan, People's Republic of China ~72: CAO, Jianfang;DU, Pengfei;HU, Peng;MA, Yanli;WANG, Weiting~

2025/05425 ~ Complete ~54:FEED SUPPLEMENT BOLUS WITH ACTIVE YEAST ~71:TECHMIX, LLC, 740 Bowman Street P.O. Box 221, Stewart, Minnesota, 55385, United States of America ~72: BRADLEY WELDING KOLSTAD;DAVID J MUYSSON;DENNIS M MCKILLIGAN;MARTY J NELSON;MICHAEL L NELSON;NATHAN UPAH;PETER H FRANZ~ 33:US ~31:18/080,371 ~32:13/12/2022;33:US ~31:18/536,601 ~32:12/12/2023

2025/05429 ~ Complete ~54:GAS VOLUME FRACTION MEASUREMENT AND CALIBRATION ~71:OWENS-BROCKWAY GLASS CONTAINER INC., One Michael Owens Way, Perrysburg, Ohio, 43551, United States of America ~72: LAWRENCE GOCHBERG;STEPHEN M GRAFF;TODD COLEMAN;WALTER ANDERSON~ 33:US ~31:18/106,000 ~32:06/02/2023

2025/05432 ~ Complete ~54:METHOD AND APPARATUS FOR DETERMINING A WEAR PROFILE OF A WEAR LINER ~71:FLSmidth A/S, Vigerslev Allé 77, VALBY 2500, DENMARK, Denmark ~72: FERNANDEZ, Jose Raul;FLORES, Cristian;FOGH, Poul;HALES, Michael;MANOHARAN, Jayachandran;MELTON, Jonathan~ 33:US ~31:63/432,987 ~32:15/12/2022

2025/05440 ~ Complete ~54:NAPHTHYLAMIDE COMPOUND, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:SHENZHEN CHIPSCREEN BIOSCIENCES CO., LTD., 21F-24F, Building B, Zhigu

Industrial Park Shuguang Community, Xili Street, Nanshan District, People's Republic of China ~72: DENG, Zhiting;PAN, Desi;SHAN, Song;SONG, Yonglian;WANG, Xiaoliang;YANG, Qianjiao;ZHANG, Yu;ZHOU, You~ 33:CN ~31:202211694771.6 ~32:28/12/2022

2025/05442 ~ Provisional ~54:SHAGGY WET SHAVING DEVICE ~71:ANTHONY EDWARD EVANS, 503 THE BELMONT HOLMFIRTH STREET, South Africa ~72: ANTHONY EDWARD EVANS~

2025/05397 ~ Complete ~54:GUIDE DEVICE IN PARTICULAR FOR AUG ULTRASONIC PROBES AND COMBINATION OF ULTRASONIC PROBE AND SAID DRIVING DEVICE AUG ~71:HENAN PROVINCE HOSPITAL OF TCM, No. 6 Dongfeng Road, Jinshui District, Zhengzhou City, Henan Province, 450000, People's Republic of China ~72: Hu Hai;Jiang Huixia;Li Tiantian;Liu Xiaodong;Wang Zheng;Yang Xi~

2025/05415 ~ Complete ~54:ENERGY-EFFICIENT PROCESS FOR SEPARATING BUTENES FROM C4-HYDROCARBON STREAMS ~71:EVONIK OXENO GMBH & CO. KG, PAUL-BAUMANN-STRASSE 1, 45772 MARL, GERMANY, Germany ~72: HEITZIG, Martina;LUTZE, Philip;OLDENKOTT, Andreas;PAUL, Niklas;RIX, Armin, Matthias;SCHRÖDER, Moritz;SIX, Tanita, Valèrie;WALLERT, Claudia;WOLDT, Benjamin;WÜLLER, Martin~ 33:EP ~31:22210409.3 ~32:30/11/2022

2025/05426 ~ Complete ~54:STABLE MONOHYDRATE OF DF2755A AND PROCESS FOR ITS PREPARATION ~71:DOMPE' FARMACEUTICI S.P.A., Via Santa Lucia 6, 20121, Milano, Italy ~72: ANDREA ARAMINI;GIANLUCA BIANCHINI;MARCELLO ALLEGRETTI~ 33:EP ~31:23153520.4 ~32:26/01/2023

2025/05435 ~ Complete ~54:A DEVICE FOR PREVENTING ACTUATION OF A TELESCOPIC PROP ~71:R.J. Goldspink Pty Ltd, 3 Cook Place, MUDGEE 2850, NEW SOUTH WALES, AUSTRALIA, Australia ~72: GOLDSPINK, Robert~ 33:AU ~31:2022903597 ~32:28/11/2022

2025/05441 ~ Complete ~54:SECURE COMMUNICATION METHOD AND APPARATUS BASED ON MULTIPLE BLIND SIGNATURES ~71:INSPUR SOFTWARE TECHNOLOGY CO., LTD, No. 1036 Langchao Road, Jinan, Shandong, Pilot Free Zone, People's Republic of China ~72: CHU, Jiaxiang;LI, Zhaochuan;LIN, Yiwei;WANG, Fei;WANG, Guanjun;WANG, Yangong;ZHANG, Feng;ZHANG, Yue~ 33:CN ~31:202310705975.3 ~32:15/06/2023

. - APPLIED ON 2025/06/26 -

2025/05486 ~ Provisional ~54:UNIVERSAL SIM CARD ~71:KORAH MOALUSI, AKASIA PLACE Q23, CORNER 3RD AND BOUNDRY ROAD, South Africa ~72: KORAH MOALUSI ~

2025/05446 ~ Provisional ~54:A SYSTEM FOR REAL-TIME SERVICE DELIVERY MANAGEMENT ~71:LUTENDO PROPERTY GROUP (PTY) LTD, 203A Lougardia Building 1262 Embankment Road Centurion, South Africa ~72: MADONSELA, Tsietsi Hamelton;NEMAHENI, Murendeni Castro~

2025/05450 ~ Provisional ~54:HER2 BREAST CANCER COMPOUND ~71:FIKILE, 10554 NU2 MDANTSANE, South Africa ~72: FIKILE~ 33:ZA ~31:1 ~32:25/06/2025

2025/05452 ~ Provisional ~54:DUAL-PHASE SURGICAL HEMOSTATIC SPRAY WITH ADJUVANT ONCOLOGY BENEFITS ~71:Pierre Johann van der Merwe, 42 Bergsig street, South Africa ~72: Pierre Johann van der Merwe~

2025/05453 ~ Complete ~54:METHOD AND DEVICE FOR GROUNDWATER EXPLORATION ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: GAO Yihui;LI Songfeng;LIANG Feng;WANG Qianyou;ZHAO Yujing~

2025/05467 ~ Complete ~54:UNIVERSAL PROTEIN RENATURATION METHOD AND APPLICATION THEREOF ~71:HANGZHOU ZHEDA DIXUN BIOLOGICAL GENE EGINEERING CO., LTD., Rm. 201-209, Bldg. 2, No. 568 Binkang Rd., Binjiang Dist., Hangzhou, People's Republic of China ~72: CAI, Weiyue;HAN, Bingnan;JIANG, Xuehan;LI, Shidan;LI, Yan;LING, Yun;LIU, Yi;TAN, Shuijie;WANG, Jiping;WU, Shandong;WU, Zhoujie;ZHANG, Peng~ 33:CN ~31:2024117950433 ~32:06/12/2024

2025/05470 ~ Complete ~54:SYSTEM AND METHOD FOR MANUFACTURING SOLAR TORQUE TUBES ~71:FCI HOLDINGS DELAWARE, INC., 1105 North Market Street, Suite 1300, United States of America ~72: CALANDRA, Mark;CARTER, Scott, Leeth~ 33:US ~31:63/544,842 ~32:19/10/2023

2025/05485 ~ Complete ~54:BINDER-PHASE-FREE HARD ALLOY, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:XIAMEN GOLDEN EGRET SPECIAL ALLOY CO., LTD., No.69 Xinglong Road, Huli District, Xiamen, People's Republic of China;XIAMEN TUNGSTEN CO., LTD., No.1005, Anling Road, Huli District, Xiamen, People's Republic of China ~72: LIN, Liangliang;LIU, Chao;LONG, Dongyang;LUO, Wenyuan;OUYANG, Hui;WU, Songyi;ZHANG, Taiquan;ZHENG, Wenqing~ 33:CN ~31:202310939618.3 ~32:28/07/2023

2025/05469 ~ Complete ~54:BLOOD TUMOR MARKER ANALYSIS DEVICE ~71:THE FIRST AFFILIATED HOSPITAL OF GUANGZHOU MEDICAL UNIVERSITY (GUANGZHOU RESPIRATORY CENTER), No. 151 Yanjiang West Road, Guangzhou, Guangdong, 510120, People's Republic of China ~72: HUANG, Zhenqian;LIU, Dan;LIU, Longlong;WANG, Yaya~

2025/05448 ~ Provisional ~54:HIGH PRESSURE PISTON ~71:PATRASCOIU, Mihail Radu, 4 Tuscany Villas, 11 Elizabeth Road, South Africa ~72: PATRASCOIU, Mihail Radu~

2025/05451 ~ Provisional ~54:EXERCISE BENCH ~71:Lionalign (Pty) Ltd, 71 Rochdale Road, Springfield Park, Durban 4051, SOUTH AFRICA, South Africa ~72: SINGH, Lyle Bivash~

2025/05458 ~ Complete ~54:REAL-TIME TASK ALLOCATION METHOD FOR UAV CLUSTER BASED ON EDGE COMPUTING ~71:Jiaxing Vocational & Technical College, No. 547, Tongxiang Avenue, Nanhu District, Jiaxing City, Zhejiang Province, 314036, People's Republic of China ~72: Bilu Luo;Chunfang Gao;Junwei Zhang;Qinwei Yao;Xiaoji Wei;Xu Chen;Yanjun Ji;Yongqi Wang;Yuyang Ji~

2025/05464 ~ Complete ~54:GELATIN BASED TRANSPARENT AND FLEXIBLE FILM FUNCTIONALIZED WITH DESMIDORCHIS FLAVA EXTRACT ~71:Ahmed Al-Harrasi, Professor, Natural and Medical Sciences Research Center, University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Oman;Ajay Sharma, Department of Pharmacognosy, Delhi Pharmaceutical Sciences and Research University, New Delhi, India;Hamed Nasser Harharah, Professor, Department of Chemical Engineering, College of Engineering, King Khalid University, Abha 62223, Saudi Arabia;Mohammed Sohail Akhtar, Associate Professor, School of Pharmacy, University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Oman;Najeeb Ur Rehman, Associate Professor, Natural and Medical Sciences Research Center, University of Nizwa, P.O. Box 33, Postal Code 616, Nizwa, Oman;Ramzi Hamed Harharah, Researcher, Department of Chemical and Process Engineering, Faculty of Engineering & Built Environment, Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor, Malaysia;Salam Kadhim Al Dawery, Professor, Chemical Engineering Department, College of Engineering, University of Nizwa, PC 616, POB 33, Nizwa-Sultanate of Oman, Oman;Saurabh Bhatia, Associate Professor, Natural and Medical Sciences Research Center, University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Oman. University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India;University of Nizwa, University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Oman;Yasir Abbas Shah, Research Associate, Natural and Medical Sciences Research Center, University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Oman ~72: Ahmed Al-Harrasi;Ajay Sharma;Hamed

Nasser Harharah;Mohammed Sohail Akhtar;Najeeb Ur Rehman;Ramzi Hamed Harharah;Salam Kadhim Al Dawery;Saurabh Bhatia;Yasir Abbas Shah~

2025/05488 ~ Provisional ~54:AN INTELLIGENT TRANSPORT SYSTEM AND METHOD THEREOF TITLED MOBILITYNEXUS ~71:SKELI SYSTEMS PTY LTD 2024/239463/07, THE OVAL OFFICE PARK MEADOWBRROK STREET, South Africa ~72: PULENG PETER MABE~

2025/05457 ~ Complete ~54:A HEMODIALYSIS OPTIMIZATION SYSTEM FOR CHRONIC KIDNEY DISEASE PATIENTS ~71:The First Affiliated Hospital of Army Medical University, PLA, No. 30, Gaotanyan Zhengjie, Shapingba District, People's Republic of China ~72: Peng Kanfu;Wu Yi;Xia Jing;Xie Pan;Zhang Huhai;Zhao Hongwen~

2025/05459 ~ Complete ~54:GRAPHICAL USER INTERFACE SYSTEM ~71:Methodical Mind, LLC., 1601 Research Blvd., ROCKVILLE 20850, MD, USA, United States of America ~72: NG, Kin;OBEROI, Pankaj;PANG, Louis W.;ROQUES, Edward J.S.;SIGAL, George;VOCK, Michael;WOHLSTADTER, Jacob N.~ 33:US ~31:62/699,381 ~32:17/07/2018;33:US ~31:16/513,526 ~32:16/07/2019

2025/05465 ~ Complete ~54:CARBOXYMETHYL CELLULOSE-BASED BIOFILM LOADED WITH ZYGOPHYLLUM QATARENSE EXTRACT FOR SUSTAINABLE AND FUNCTIONAL FOOD PACKAGING ~71:Ahmed Al-Harrasi, Professor, Natural and Medical Sciences Research Center, University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Oman;Hamed Nasser Harharah, Professor, Department of Chemical Engineering, College of Engineering, King Khalid University, Abha 62223, Saudi Arabia;Najeeb Ur Rehman, Associate Professor, Natural and Medical Sciences Research Center, University of Nizwa, P.O. Box 33, Postal Code 616, Nizwa, Oman;Ramzi Hamed Harharah, Researcher, Department of Chemical and Process Engineering, Faculty of Engineering & Built Environment, Universiti Kebangsaan Malaysia, 43600 Bangi, Selangor, Malaysia;Salam Kadhim Al Dawery, Professor, Chemical Engineering Department, College of Engineering, University of Nizwa, PC 616, POB 33, Nizwa-Sultanate of Oman, Oman;Saurabh Bhatia, Associate Professor, Natural and Medical Sciences Research Center, University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Oman. University of Petroleum and Energy Studies, Dehradun, Uttarakhand, India;Sharma Pritam Babu, Vice Chancellor, Amity University Haryana. Amity University Haryana, Pachgaon, Manesar, Gurugram, Pin 122413, India;Shyam Sundar Arputhanantham, Associate Professor School of Pharmacy, College of Health Sciences, University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Oman;Talha Shireen Khan, Research Associate, Natural and Medical Sciences Research Center, University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Oman;University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Oman;Yasir Abbas Shah, Research Associate, Natural and Medical Sciences Research Center, University of Nizwa, P.O. Box 33, Birkat Al Mauz, Nizwa 616, Oman ~72: Ahmed Al-Harrasi;Hamed Nasser Harharah;Najeeb Ur Rehman;Ramzi Hamed Harharah;Salam Kadhim Al Dawery;Saurabh Bhatia;Sharma Pritam Babu;Shyam Sundar Arputhanantham;Talha Shireen Khan;Yasir Abbas Shah~

2025/05478 ~ Complete ~54:CARBON SEQUESTRATION WITH TRANSGENIC PLANTS EXPRESSING CARBONIC ANHYDRASE ~71:Wild Bioscience Ltd, 115k Olympic Avenue, Milton Park, ABINGDON OX14 4SA, OXFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: COSTELLO, Rona;HENDRON, Ross;KELLY, Steven~ 33:GB ~31:2300297.5 ~32:09/01/2023

2025/05481 ~ Complete ~54:CONTROLLING MESH INSTALLATION ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: FRANCKE, Totte;HANSKI, Sami;KORVA, Timo;KOUHIA, Anssi~ 33:EP ~31:23152075.0 ~32:17/01/2023

2025/05483 ~ Complete ~54:RECOMBINANT HEMOGLOBIN ~71:KANGMA-HEALTHCODE (SHANGHAI) BIOTECH CO., LTD., Building 12, 118 Furonghua Road Pudong New Area, Shanghai, 201321, People's Republic

of China ~72: GAOWEI XIE;LIQIONG XU;MIN GUO;SONG XIAO;SONGLIN WANG;XUE YU;ZHANG LIU~ 33:CN ~31:202211528623.7 ~32:30/11/2022

2025/05463 ~ Complete ~54:METHOD FOR VEHICLE CONDITION ALERT AND COMMUNICATION ~71:NAIDOO, Shaldon, 25 Parkland Lane, RIVERGLEN, Steyn City, Johannesburg 2191, GP, SOUTH AFRICA, South Africa ~72: NAIDOO, Shaldon~ 33:ZA ~31:2024/05130 ~32:01/07/2024

2025/05445 ~ Provisional ~54:ELECTRICITY LOAD MANAGEMENT DEVICE ~71:Keith Graham HOLMES, 20 Seeles Road, Monteseel, Inchanga, South Africa ~72: FLEMING, Leslie John;HOLMES, Keith Graham~

2025/05456 ~ Complete ~54:SYSTEMS AND METHODS FOR INTERPRETING HIGH ENERGY INTERACTIONS ~71:DECISION TREE, LLC, 2702 23rd Street, United States of America ~72: DRAKE, Brandon Lee Goodchild~ 33:US ~31:62/741,231 ~32:04/10/2018

2025/05472 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING ENAVOGLIFLOZIN AND METFORMIN ~71:DAEWOONG PHARMACEUTICAL CO., LTD., 35-14, Jeyakgongdan 4-gil, Hyangnam-eup, Republic of Korea ~72: CHO, Sangeun;HA, Songyi;HWANG, On;KIM, Gwan Young;KIM, Gyoungwon;KIM, Hoe Sung;PARK, Minhyung~ 33:KR ~31:10-2022-0190502 ~32:30/12/2022

2025/05477 ~ Complete ~54:APTOLL MOLECULES FOR THE TREATMENT OF ISCHEMIC STROKE AND INTRACRANIAL HEMORRHAGES ~71:Merck Patent GmbH, Frankfurter Strasse 250, DARMSTADT 64293 , GERMANY, Germany ~72: HERNÁNDEZ JIMÉNEZ, Macarena;SEGARRA DE LA PEÑA, David;ZARABOZO LEAL, María Eugenia~ 33:EP ~31:23382006.7 ~32:05/01/2023

2025/05484 ~ Complete ~54:SIZE-CLASSIFIER OF ADIPOCYTE CELLS AND LIPOSUCTION SYSTEM COMPRISING SAME ~71:EUROMI, Rue des Nouvelles Technologies 11, 4821, Andrimont, Belgium ~72: DAVID LELEU;DIMITRI LEMAIRE~

2025/05460 ~ Complete ~54:MODULATORS OF PNPLA3 EXPRESSION ~71:Ionis Pharmaceuticals, Inc., 2855 Gazelle Court, CARLSBAD 92010, CA, USA, United States of America ~72: BUI, Huynh-Hoa;FREIER, Susan M.~ 33:US ~31:62/733,152 ~32:19/09/2018

2025/05466 ~ Complete ~54:A SYSTEM AND METHOD FOR GENERATING ADVERTISEMENTS ~71:TEBATSO MPHATI, 53 Central Park, 3 Village Walk, Parklands, South Africa ~72: MPHATI, Tebatso;NOMVALO, Matlhasedi Phumelele~

2025/05476 ~ Complete ~54:LIQUID ORAL FORMULATIONS OF NETUPITANT AND PALONOSETRON ~71:Helsinn Healthcare SA, Via Pian Scairolo 9, LUGANO / PAZZALLO 6912, SWITZERLAND, Switzerland ~72: FABIANI, Flavio;FRIZZARIN, Stefano;PARISI, Davide~ 33:US ~31:63/436,713 ~32:03/01/2023

2025/05480 ~ Complete ~54:SMALL MOLECULE FSH RECEPTOR MODULATORS ~71:Ferring B.V., Polaris Avenue 144, HOOFDDORP 2132 JX, THE NETHERLANDS, Netherlands ~72: BULLESS, Theodore Henry Noah;CARTER, Tom Scott;FAULKNER, Adele;GILLARD, Rachel Marie;GREENAWAY, Catherine Jane;LECCI, Cristina;MILLS, Matthew Robert;SALAS, Carlos Arróniz;STALEWSKI, Jacek;TURNBULL, Philip Stewart;ZHU, Zhaoning~ 33:US ~31:63/450,847 ~32:08/03/2023;33:US ~31:63/606,514 ~32:05/12/2023

2025/05461 ~ Complete ~54:GRAPHICAL USER INTERFACE SYSTEM ~71:Methodical Mind, LLC., 1601 Research Blvd., ROCKVILLE 20850, MD, USA, United States of America ~72: NG, Kin;OBEROI, Pankaj;PANG, Louis W.;ROQUES, Edward J.S.;SIGAL, George;VOCK, Michael;WOHLSTADTER, Jacob N.~ 33:US ~31:62/699,381 ~32:17/07/2018;33:US ~31:16/513,526 ~32:16/07/2019

2025/05449 ~ Provisional ~54:GAS COOLING ~71:PATRASCOIU, Mihail Radu, 4 Tuscany Villas, 11 Elizabeth Road, South Africa ~72: PATRASCOIU, Mihail Radu~

2025/05454 ~ Complete ~54:PHARMACEUTICAL COMPOSITION CONTAINING AN IMMUNOSUPPRESIVE AGENT AND METHOD FOR THE PREPARATION THEREOF ~71:PHARMATHEN S.A., 6 DERVENAKION STREET, 15351 PALLINI ATTIKIS, GREECE, Greece ~72: DRAGANOUDI, Christina;KALASKANI, Anastasia;KARAVAS, Evangelos;KIZIRIDI, Christina;KOUTRI, Ioanna;KOUTRIS, Efthymios;LEUKOTHEA, Antonara;SAMARA, Vasiliki~

2025/05462 ~ Complete ~54:METHOD AND SYSTEM FOR ACCURATELY POSITIONING UAV CLUSTER BASED ON TIME-SPACE SYNCHRONOUS RANGING ~71:Jiaxing Vocational & Technical College, No. 547, Tongxiang Avenue, Nanhu District, Jiaxing City, Zhejiang Province, 314036, People's Republic of China ~72: Bilu Luo;Chunfang Gao;Junwei Zhang;Qinwei Yao;Xiaoji Wei;Xu Chen;Yanjun Ji;Yongqi Wang;Yuyang Ji~

2025/05473 ~ Complete ~54:A CURB STONE ~71:TABET BENSLIMANE, Hassan, Kloosterstraat 63, Belgium ~72: TABET BENSLIMANE, Hassan~ 33:EP ~31:23153954.5 ~32:30/01/2023;33:EP ~31:23177044.7 ~32:02/06/2023

2025/05447 ~ Provisional ~54:VARIABLE VOLUME PISTON ~71:PATRASCOIU, Mihail Radu, 4 Tuscany Villas, 11 Elizabeth Road, South Africa ~72: PATRASCOIU, Mihail Radu~

2025/05455 ~ Complete ~54:SYSTEM FOR EARLY DIAGNOSIS AND PROGNOSIS ASSESSMENT OF OVARIAN CANCER BASED ON CIRCULAR RIBONUCLEIC ACIDS IN PLASMA EXOSOMES ~71:The First People's Hospital of Zhenjiang City, No 8 Dianli Road, Runzhou District, Zhenjiang City, Jiangsu Province, 212002, People's Republic of China ~72: Changfeng Man;Chunhe Shi;Dandan Gong;Lin Chen;Songlan Zhao;Yajie Shen;Yongjing Zhou;Yu Fan;Zhiyuan Qiu~

2025/05468 ~ Complete ~54:USE OF GOT1, MT3, SETD1B, FH AND HRAS GENES AND METHOD FOR SCREENING GENES RELATED TO ALZHEIMER'S DISEASE ~71:QIQIHAR MEDICAL UNIVERSITY, Qiqihar Medical University No. 333, Bokui Street, Jianhua District, Qiqihar City, People's Republic of China ~72: SUN, Jiachen;WANG, Yang~ 33:CN ~31:2024119122108 ~32:24/12/2024

2025/05471 ~ Complete ~54:MATERIAL CHILLING/FREEZING SYSTEM ~71:HIVE CHILLING IP PTY LTD, 243-271 Jude Road, Howlong, Australia ~72: STAUGHTON, Edward;STAUGHTON, Simon~ 33:AU ~31:2022903914 ~32:20/12/2022;33:AU ~31:2023903481 ~32:31/10/2023

2025/05475 ~ Complete ~54:SYNERGISTIC COMBINATIONS OF REGULATED NECROSIS INHIBITORS WITH N-ACETYLCYSTEINE ~71:ECOLE DES HAUTES ÉTUDES EN SANTÉ PUBLIQUE (EHESP), 15 avenue du Professeur Léon Bernard CS74312, France;INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE (INSERM), 101 Rue de Tolbiac, France;SEABELIFE, Place Georges Teissier, France;UNIVERSITE DE RENNES, Campus de Beaulieu 263 Avenue du Général Leclerc CS 74205, France ~72: BELAL, Sophie;DIMANCHE-BOITREL, Marie-Thérèse;ROUSSELOT, Morgane;SIMOES EUGENIO, Mélanie~ 33:EP ~31:22306783.6 ~32:02/12/2022

2025/05482 ~ Complete ~54:METHOD FOR ISOLATING AND/OR PURIFYING NUCLEIC ACIDS ~71:LGC Genomics GmbH, Ostendstr. 25, BERLIN 12459, GERMANY, Germany ~72: BRINCKMANN, Anja;HAUSER, Heiko;HOFFMANN, Melanie;KOHLENBERG, Max;VON DER HEIDE, Eva Kristin~ 33:EP ~31:23154145.9 ~32:31/01/2023

2025/05487 ~ Provisional ~54:BATTERY OPERATED MULTI-PLUG ~71:KORAH MOALUSI, AKASIA PLACE Q23, CORNER 3RD AND BOUNDRY ROAD, South Africa ~72: KORAH MOALUSI ~

2025/05474 ~ Complete ~54:METHOD OF TREATING HAIR LOSS DISORDERS ~71:SUN PHARMACEUTICAL INDUSTRIES, INC., 2 Independence Way, United States of America ~72: BRUMMEL, Christopher L.;CASSELLA, James V.;HOLDEN, Meghan A.~ 33:US ~31:63/543,470 ~32:10/10/2023;33:US ~31:63/543,885 ~32:12/10/2023;33:US ~31:63/625,125 ~32:25/01/2024;33:US ~31:63/673,600 ~32:19/07/2024;33:US ~31:63/675,577 ~32:25/07/2024;33:US ~31:63/697,634 ~32:23/09/2024

2025/05479 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: CHARBONNIER, Antoine;VU, Ly Huong~ 33:GB ~31:2218130.9 ~32:02/12/2022

. - APPLIED ON 2025/06/27 -

2025/05496 ~ Provisional ~54:SYSTEM AND METHOD FOR CENTRALIZED IDENTIFICATION, MATCHING, AND RECOVERY OF UNCLAIMED FINANCIAL ASSETS, INCLUDING PENSIONS, RETIREMENT FUNDS, DIVIDENDS, ESTATES, AND INSURANCE ~71:Mmatjiane Jacqueline Hamese, 235 kingfisher street, South Africa ~72: Mmatjiane Jacqueline Hamese~ 33:ZA ~31:1 ~32:26/06/2025

2025/05510 ~ Complete ~54:AN AGROCHEMICAL COMPOSITION ~71:UPL Limited, Uniphos House, CD Marg, 11th Road, Madhu Park, Khar (West), MUMBAI 400052, INDIA, India ~72: BHOGE, Satish Ekanath;MONDAL, Achintya~ 33:IN ~31:202221071159 ~32:09/12/2022

2025/05498 ~ Complete ~54:MEDICINAL PILLOW FOR STRENGTHENING BRAIN AND IMPROVING EYESIGHT ~71:Maosen Chen, Intersection of Binjiang Road and Meihua Road, Wuchuan Traditional Chinese Medicine Hospital New Campus, Zhanjiang, Guangdong, 524000, People's Republic of China ~72: Maosen Chen~

2025/05502 ~ Complete ~54:PRUNING METHOD FOR LARGE CONTAINER-GROWN SEEDLINGS OF CHANGLIN SERIES CAMELLIA OLEIFERA ~71:Experimental Center for Subtropical Forestry, Chinese Academy of Forestry, No. 460, Qianshan West Road, Fenyi County, Xinyu City, Jiangxi Province, 336600, People's Republic of China;Xinyu University, No. 2666, Yangguang Road, Yushui County, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: CAO Linqing;CAO Lixian;CHEN Chuansong;GUO Hongyan;HE Tieding;HUA Yikai;JIANG Ying;LIU Yisi;PAN Wenting;WANG Jia;WANG Jinfeng;YAN Chao;YUAN Yaqi;ZHOU Jian;ZHOU Zongshun~

2025/05507 ~ Complete ~54:DIGITAL MARKETING SUPPLY CHAIN DATA TECHNOLOGY SYSTEM FOR DIGITAL ECONOMY ~71:QUANZHOU UNIVERSITY OF INFORMATION ENGINEERING, NO. 249, BODONG ROAD, People's Republic of China ~72: WANG, Lingfeng~

2025/05517 ~ Complete ~54:SOLAR ABSORBER ~71:Emitec Technologies GmbH, Hauptstraße 128, LOHMAR 53797, GERMANY, Germany ~72: BRÜCK, Rolf;DUNG, Sebastian;HIRTH, Peter~ 33:DE ~31:10 2022 212 804.4 ~32:29/11/2022

2025/05520 ~ Complete ~54:CYBER SECURITY SYSTEM WITH ENHANCED CLOUD-BASED METRICS ~71:Darktrace Holdings Limited, Maurice Wilkes Building, St John's Innovation Park, CAMBRIDGE CB4 0DS, UNITED KINGDOM, United Kingdom ~72: BOYER, John Anthony;DOMINTE, Stefan;LONGHURST, Elise;MCKEY, Ciaran;TRIMBLE, Connor;VARSANDAN, Mihai~ 33:US ~31:63/436,425 ~32:30/12/2022

2025/05524 ~ Complete ~54:FEXAMETHODS FOR TREATING INFANTILE-ONSET POMPE DISEASE IN PEDIATRIC PATIENTS ~71:AMICUS THERAPEUTICS, INC., 3675 Market Street, Philadelphia, Pennsylvania, 19104, United States of America ~72: JAY BARTH;JEFF CASTELLI;SHEELA SITARAMAN DAS~ 33:US ~31:63/429,969 ~32:02/12/2022;33:US ~31:63/449,810 ~32:03/03/2023

2025/05527 ~ Complete ~54:RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING ~71:BEIJING DAJIA INTERNET INFORMATION TECHNOLOGY CO., LTD., Room 101, 8th Floor, Building 12, No. 16, Xierqi West Road, Haidian District, People's Republic of China ~72: CHEN, Wei;CHEN, Yi-Wen;JHU, Hong-Jheng;KUO, Che-Wei;WANG, Xianglin;XIU, Xiaoyu;YAN, Ning;YU, Bing~ 33:CN ~31:63/193,593 ~32:26/05/2021

2025/05528 ~ Provisional ~54:SOFA'S CHAIR'S AND WHEEL CHAIR'S MODIFICATION FOR ELDERLY AND HANDYCAP ~71:LEONARD ANDRIES XINTI, 786 UMNTWANA STREET MAILULA PARK EXT 3, South Africa ~72: LEONARD ANDRIES XINTI~

2025/05500 ~ Complete ~54:DRONE-BASED ROAD SURFACE DEFECT DETECTION DEVICE ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan, Henan Province, 467041, People's Republic of China ~72: CHEN Lianjun;GUO Huanhuan;LU Chunyang;QU Qianlong;WEN Feng;YANG Yun;ZHOU Yushi~

2025/05522 ~ Complete ~54:FLUTTER EXCITATION TEST SYSTEM AND METHOD FOR FIXED-WING AIRCRAFT ~71:AVIC HARBIN AIRCRAFT INDUSTRY GROUP CO., LTD, No.15, Youxie Road, Pingfang District, People's Republic of China ~72: GAO, Jiaxin;GAO, Qiang;LIU, Tengyuan;WANG, Lei;YIN, Zhongwei;ZHAO, Chunzhuang~ 33:CN ~31:202311861740.X ~32:29/12/2023

2025/05506 ~ Complete ~54:B7H3 ANTIBODY DRUG CONJUGATES ~71:BEONE MEDICINES I GMBH, Aeschengraben 27, Switzerland ~72: HE, Maomao;LIU, Qi;LUO, Wei;TANG, Xiaoyan;TSAI, Charng-Sheng;TSAI, Mei-Hsuan;WANG, Zewei;WEI, Xiaodong;XUE, Liu;YANG, Xiaokun~ 33:CN ~31:PCT/CN2022/143246 ~32:29/12/2022;33:CN ~31:PCT/CN2022/143247 ~32:29/12/2022;33:CN ~31:PCT/CN2022/143248 ~32:29/12/2022

2025/05515 ~ Complete ~54:FISCHER-TROPSCH CATALYST ACTIVATION ~71:BP P.L.C., 1 St James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PARTINGTON, Stephen Roy;PATERSON, Alexander James;VAN RENSBURG, Hendrik~ 33:EP ~31:22211252.6 ~32:02/12/2022

2025/05505 ~ Complete ~54:INTEGRAL WING FUEL TANK STRUCTURE FOR UNMANNED AERIAL VEHICLE AND METHOD FOR MANUFACTURING THE SAME ~71:AVIC (CHENGDU) UAS CO., LTD., No. 4 Xixin Avenue, Gaoxin West District, Chengdu, People's Republic of China ~72: CHEN, Xinjie;LI, Jianghai;LIN, Rongxin;LIU, Wenrui;TANG, Yong;ZHANG, Yulin~ 33:CN ~31:2024110597722 ~32:05/08/2024

2025/05509 ~ Complete ~54:FLOW MEASURING AND METERING APPARATUS FOR FLOWABLE GRANULAR SOLIDS ~71:Hallett's Hay and Seed Ltd., Box 20, Site 5, RR #2 Carstairs, ALBERTA T0M 0N0, CANADA, Canada ~72: HALLETT, Richard~ 33:US ~31:18/299,740 ~32:13/04/2023

2025/05529 ~ Provisional ~54:DATA-DRIVEN QUANTUM OPERATOR APPROXIMATING RIEMANN ZETA ZEROS ~71:Mqhele Sithole, 24 candlewood street, South Africa ~72: Mqhele Sithole~

2025/05491 ~ Provisional ~54:IDENTIFICATION OF COUNTERFEIT CONSUMER PACKAGED GOODS ~71:DONOTCOPY DIGITAL (PTY) LTD, 1 ST MARGARET STREET, HURLYVALE, EDENVALE, GAUTENG, 1609, SOUTH AFRICA, South Africa ~72: OPPERMAN, Philip, Dudley~

2025/05492 ~ Provisional ~54:SYSTEM AND METHOD FOR TIMING AND VOLUME OPTIMIZATION IN ACCELERATED SHARE REPURCHASE ~71:Rui Liu, 99 Hudson St Unit 1500, Jersey City, New Jersey, 07302, United States of America ~72: Rui Liu~

2025/05494 ~ Provisional ~54:INTEGRATED WATER TREATMENT SYSTEM ~71:TECROVEER HOLDINGS (PTY) LTD., 9 Cooperskloof Street, Glen Harvie, 1786, South Africa ~72: GRAEME JOHN TAYLOR;JOHANNES IZAK CRONJE;ZÜRICH WILHELM TERBLANCHÉ~

2025/05499 ~ Complete ~54:ANTI-AGING IMMUNE FORMULA ~71:Yuanzhu Zhang, Room 301, Building 21, Yaohai New Village, Qilitang Town, Zhangwa Road, Yaohai Dist., Hefei, Anhui, People's Republic of China ~72: Yuanzhu Zhang~ 33:CN ~31:2025100677778 ~32:16/01/2025

2025/05504 ~ 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;ANDREW FREEMAN;ANDREW NORFOLK;ED SURRIDGE;ROBERT WEATHERLY~ 33:GB ~31:2020306.3 ~32:21/12/2020

2025/05518 ~ Complete ~54:SPIRO DERIVATIVES AS M4 ACTIVATORS/MODULATORS AND USES THEREOF ~71:Cerevel Therapeutics, LLC, 1 N. Waukegan Road, NORTH CHICAGO 60064, IL, USA, United States of America ~72: GRAY, David;JOHNSON, Shea;LIM, Jongwon;NGUYEN, Hanh;PIN, Sokhom;SARKAR, Ujjal;WANG, Minghua;ZHANG, Hongjun;ZHANG, Xiaofeng~ 33:US ~31:63/479,579 ~32:12/01/2023

2025/05741 ~ Provisional ~54:“ENVIRO-VAULT: MOBILE, SOLAR-POWERED BUNDED STORAGE UNIT FOR AGRICULTURAL CHEMICALS” ~71:Marcelle Bester, 2b, Guildford Road, South Africa ~72: Marcelle Bester~ 33:ZA ~31:N/A ~32:26/06/2025

2025/05495 ~ Provisional ~54:STAKA VEHICLE SERVICE & SAFETY APP ~71:Kgotso, 11 gleneagles, South Africa ~72: Kgotso Makinta~

2025/05503 ~ Complete ~54:ACCESS CONTROL SYSTEM FOR UNDERGROUND MINES ~71:UNIQUE VENTILATION & SUPPORT SYSTEMS (PTY) LTD, 1 Resnick Street, Factoria, South Africa ~72: VAN DER MERWE, Jacob Jacobus~ 33:ZA ~31:2024/05074 ~32:28/06/2024

2025/05508 ~ Complete ~54:CHIMERIC ANTIGEN RECEPTOR AND ANTIBODY-NKG2D LIGAND DOMAIN FUSION PROTEIN ~71:XYPHOS BIOSCIENCES INC., 100 Kimball Way, United States of America ~72: KEARNEY, Alper Yetil;KIM, Kaman, C.~ 33:US ~31:63/483,747 ~32:07/02/2023

2025/05511 ~ Complete ~54:USE OF GRAPH NEURAL NETWORKS TO CLASSIFY, GENERATE, AND ANALYZE SYNTHETIC CYBER SECURITY INCIDENTS ~71:Darktrace Holdings Limited, Maurice Wilkes Building, St John's Innovation Park, CAMBRIDGE CB4 0DS, UNITED KINGDOM, United Kingdom ~72: BAZALGETTE, Timothy;HUMPHREY, Dickon;SELLARS, Philip~ 33:US ~31:63/436,425 ~32:30/12/2022

2025/05526 ~ Complete ~54:METHOD FOR QUICKLY DEPLOYING CROSS-SCENARIO INTERNET OF THINGS APPLICATION BASED ON COMPONENTIZATION CAPABILITIES OF AIOT MIDDLE PLATFORM ~71:UNIVERSAL UBIQUITOUS AI CO.,LTD., 3RD BUILDING, 24TH, 25TH AND 26TH FLOORS, FASHION WANTONG CITY, CANGQIAN SUB-DISTRICT, YUHANG DISTRICT, HANGZHOU CITY, People's Republic of China ~72: LIU, Hao;SU, Liangliang;XU, Yujie;ZHAO, Wuyue;ZHAO, Zheng;ZHENG, Dong;ZHUANG, Qingyun~ 33:CN ~31:2024107158537 ~32:04/06/2024

2025/05489 ~ Provisional ~54:DYNAMIC MULTIPLEX DIAGNOSTIC SYSTEM WITH ADAPTIVE PHOTONIC SENSING, RECONFIGURABLE MICROFLUIDICS, AND AI-POWERED CLINICAL TRIAGE ~71:Pierre Johann van der Merwe, 42 Bergsig street, South Africa ~72: Pierre Johann van der Merwe~

2025/05497 ~ Complete ~54:PREFABRICATED BUILDING WITH STEEL STRUCTURE ~71:Insome Technologies(SZ) Co. Ltd., C513, Unit 1, Block C, Office Bldg., Huahan Innovation Park, No. 16, Langshan Road,

Xili St., Nanshan Dist., Shenzhen, Guangdong, 518000, People's Republic of China ~72: Xuqian Zhang;Xuting Zhang~

2025/05516 ~ Complete ~54:FISCHER-TROPSCH CATALYST ACTIVATION ~71:BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PARTINGTON, Stephen Roy;PATERSON, Alexander James;VAN RENSBURG, Hendrik~ 33:EP ~31:22211255.9 ~32:02/12/2022

2025/05501 ~ Complete ~54:UNDERGROUND DOOR AND ACCESS CONTROL SYSTEMS FOR UNDERGROUND MINES ~71:UNIQUE VENTILATION & SUPPORT SYSTEMS (PTY) LTD, 1 Resnick Street, Factoria, South Africa ~72: VAN DER MERWE, Jacob Jacobus~ 33:ZA ~31:2024/05075 ~32:28/06/2024

2025/05513 ~ Complete ~54:FISCHER-TROPSCH CATALYST PASSIVATION AND ACTIVATION ~71:BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James;PEACOCK, Mark I.~ 33:EP ~31:22211100.7 ~32:02/12/2022

2025/05519 ~ Complete ~54:EAR CATHETER FOR APPLYING MEDICATION ~71:Auriventis Medical GmbH, Küpferstraße 14, LÖRRACH 79540, GERMANY, Germany ~72: OBRADOVIC, Aleksandar;OBRADOVIC, Milisav;SUDHOFF, Holger;SUDHOFF, Maximilian~ 33:DE ~31:10 2022 135 027.4 ~32:30/12/2022

2025/05521 ~ Complete ~54:REDUCING COMPLEXITY OF VIDEO ENCODING AND DECODING ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: LIU, Du;STRÖM, Jacob;WENNERSTEN, Per~ 33:US ~31:63/436,723 ~32:03/01/2023

2025/05523 ~ Complete ~54:SPIROCYCLOALKYL COMPOUNDS AND PHARMACEUTICAL COMPOSITIONS THAT MODULATE IKZF2 ~71:PLEXIUM, INC., 9330 Scranton Road, Suite 500, San Diego, United States of America ~72: BAILEY, Simon;YANG, Pengyu~ 33:US ~31:63/478,449 ~32:04/01/2023

2025/05490 ~ Provisional ~54:SERIALISED AND NON-SERIALISED UNIQUE ITEM VALIDATION ~71:DONOTCOPY DIGITAL (PTY) LTD, 1 ST MARGARET STREET, HURLYVALE, EDENVALE, GAUTENG, 1609, SOUTH AFRICA, South Africa ~72: OPPERMAN, Philip, Dudley~

2025/05493 ~ Provisional ~54:ANGLING EVENT MONITORING ~71:VENTER, Nico, 107 14th Avenue, Gonubie, South Africa ~72: BENNETT, Stuart Patrick;PIEK, Marthinus Jacobus;VENTER, Nico;MALAN, Cyril~

2025/05512 ~ Complete ~54:IMPROVED EAR CATHETER FOR APPLYING MEDICATION ~71:Auriventis Medical GmbH, Küpferstraße 14, LÖRRACH 79540, GERMANY, Germany ~72: BAUMGARTNER, Daniel;DITTMANN, Dirk;OBRADOVIC, Aleksandar;OBRADOVIC, Milisav;SUDHOFF, Holger;SUDHOFF, Maximilian~ 33:DE ~31:10 2022 135 028.2 ~32:30/12/2022

2025/05514 ~ Complete ~54:FISCHER-TROPSCH CATALYST PASSIVATION AND ACTIVATION ~71:BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James~ 33:EP ~31:22211105.6 ~32:02/12/2022

2025/05525 ~ Complete ~54:TOWER CRANE COLLABORATIVE MANAGEMENT METHOD AND APPARATUS FOR LARGE-SCALE IOT APPLICATIONS ~71:UNIVERSAL UBIQUITOUS AI CO.,LTD., 3RD BUILDING, 24TH, 25TH AND 26TH FLOORS, FASHION WANTONG CITY, CANGQIAN SUB-DISTRICT, YUHANG DISTRICT, HANGZHOU CITY, People's Republic of China ~72: JIAO, Keliang;LIU, Hao;SU, Liangliang;XU, Yujie;ZHAO, Zheng;ZHENG, Dong;ZHUANG, Qingyun~ 33:CN ~31:2024107602053 ~32:13/06/2024

. - APPLIED ON 2025/06/30 -

2025/05575 ~ Complete ~54:MULTIFUNCTIONAL DIGITAL AND INTELLIGENT SECONDARY ELECTRICAL DESIGN METHOD AND SYSTEM ~71:State Grid Corporation of China, No. 86, West Chang'an Street, Xicheng District, Beijing, 100000, People's Republic of China;State Grid Hunan Electric Power Company Limited, 398 Xinshao East Road, Tianxin District, Changsha City, Hunan Province, People's Republic of China;State Grid Hunan Yueyang County Electric Power Supply Company, The intersection of Yueyang Avenue and Xuyuan Road, Yueyang, Hunan, 414000, People's Republic of China;Yueyang Electric Power Survey and Design Institute Company Limited, Electric Power Bureau Courtyard, No. 7 Gongnong Road, Wulipai, Yueyang City, Hunan Province, People's Republic of China ~72: Chang Xu;Chao Li;Di Yan;Junyue Zhang;Li Zhang;Tao Wang;Xing Gan;Zhenyu Yao;Zhiwen Jiang~ 33:CN ~31:202410719754.6 ~32:05/06/2024

2025/05618 ~ Complete ~54:COMPRESSION APPARATUSES, SYSTEMS AND METHODS FOR SCREENING MATERIALS ~71:DERRICK CORPORATION, 590 Duke Road Buffalo New York 14225, United States of America ~72: GROSS, William H.;JENKINS, Daniel P.;NEWMAN, Christian;PERESAN, Michael;WOJCHIECHOWSKI, Keith~ 33:US ~31:63/419,214 ~32:25/10/2022;33:US ~31:63/464,982 ~32:09/05/2023

2025/05533 ~ Provisional ~54:ADAPTIVE GRADING ELIGIBILITY AND SMART LOCKING ALGORITHM WITH AUTOMATED CONTENT CONTROL AND SYLLABUS ASSIGNMENT FOR MARTIAL ARTS STUDENT MANAGEMENT ~71:Izél Baker, 42 Park Ln, South Africa ~72: Izél Baker~ 33:ZA ~31:1 ~32:16/06/2025

2025/05536 ~ Provisional ~54:DRIVE SOLE DESIGN ~71:DRIVE SOLE (Pty) Ltd, 25 Liege Avenue, Thornhill estate, South Africa ~72: Shermenthren Moodley~

2025/05539 ~ Provisional ~54:RAILWAY ENERGY SYSTEM ~71:Thabo Mokgoadi, Mafisheng 102, Marble hall, Limpopo, 0450, South Africa ~72: Thabo Makgoane Mokgoadi~

2025/05562 ~ Complete ~54:TOBACCO TREATMENT ~71:British American Tobacco Exports Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ABDURAHMANOV, Batir;DORFEY, Rodrigo;GALLO, Constanza;LIMA, Pamela;MARSI, Tamas;PIAGGIO, Agustin;SYMONDS, Jason~ 33:GB ~31:2300613.3 ~32:16/01/2023

2025/05565 ~ Complete ~54:POWER SUPPLY METHOD FOR A STEPPER MOTOR AND DRIVER DEVICE FOR OPERATING THE LATTER ~71:Carel Industries S.p.A., Via dell'Industria 11, BRUGINE PD 35020, ITALY, Italy ~72: BIANCHINI, Umberto;DALAN, Andrea~ 33:IT ~31:102022000024942 ~32:05/12/2022

2025/05569 ~ Complete ~54:FISCHER-TROPSCH CATALYST ACTIVATION ~71:BP P.L.C., 1 St. James’s Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PARTINGTON, Stephen Roy;PATERSON, Alexander James;VAN RENSBURG, Hendrik~ 33:EP ~31:22211242.7 ~32:02/12/2022

2025/05582 ~ Complete ~54:COMPRESSION APPARATUSES, SYSTEMS AND METHODS FOR SCREENING MATERIALS ~71:DERRICK CORPORATION, 590 Duke Road Buffalo New York 14225, United States of America ~72: GROSS, William H.;JENKINS, Daniel P.;NEWMAN, Christian;PERESAN, Michael;WOJCHIECHOWSKI, Keith~ 33:US ~31:63/419,214 ~32:25/10/2022;33:US ~31:63/464,982 ~32:09/05/2023

2025/05578 ~ Provisional ~54:SYSTEM AND METHOD FOR REMOTE FILE REPAIR AND DEVICE REVIVALWITHOUT BOOT MEDIA OR OPERATING SYSTEM ACCESS ~71:The Best Trust Registration No: IT001800/2017(C), 418 Theuns van Niekerk Street. Wierda Park, Centurion, South Africa ~72: Jacques van der Merwe ~

2025/05579 ~ Provisional ~54:ALCOVERIFY – MOBILE-BASED PRODUCT VERIFICATION AND COUNTERFEIT DETECTION SYSTEM ~71:DUMISANI NDLOVU, 1 CLAY STREET, OASIS MANOUR, South Africa ~72: DUMISANI NDLOVU~

2025/05580 ~ Complete ~54:COMPRESSION APPARATUSES, SYSTEMS AND METHODS FOR SCREENING MATERIALS ~71:DERRICK CORPORATION, 590 Duke Road Buffalo New York 14225, United States of America ~72: GROSS, William H.;JENKINS, Daniel P.;NEWMAN, Christian;PERESAN, Michael;WOJCHIECHOWSKI, Keith~ 33:US ~31:63/419,214 ~32:25/10/2022;33:US ~31:63/464,982 ~32:09/05/2023

2025/05537 ~ Provisional ~54:DETONATOR PLACEMENT AND SECURING DEVICE ~71:ENAEX AFRICA (PTY) LTD., 2nd Floor Oxford Parks, 199 Oxford Road, DUNKELD, Johannesburg 2196, Gauteng, SOUTH AFRICA, South Africa ~72: OLIVIER, Ruben~

2025/05543 ~ Complete ~54:A SYNTHESIS METHOD FOR A CARBON-13 ISOTOPE-LABELED TBBPA BIS(2-HYDROXYETHYL) ETHER ~71:Qingdao University, Qingdao University, Ningxia Road, Laoshan District, Qingdao City, Shandong Province, 266071, People's Republic of China ~72: Haili Zhang;Hui Xue;Jing Lan;Qi Lou;Yaoyao Wang;Yawei Sun;Zongshan Zhao~

2025/05546 ~ Complete ~54:A SYSTEM AND METHOD FOR MAKING A PAYMENT ~71:SAVVAS DEMETRIOU, Unit 2, Lord Somerset, 205 Main Road, Three Anchor Bay, South Africa ~72: DEMETRIOU, Savvas~

2025/05581 ~ Complete ~54:COMPRESSION APPARATUSES, SYSTEMS AND METHODS FOR SCREENING MATERIALS ~71:DERRICK CORPORATION, 590 Duke Road Buffalo New York 14225, United States of America ~72: GROSS, William H.;JENKINS, Daniel P.;NEWMAN, Christian;PERESAN, Michael;WOJCHIECHOWSKI, Keith~ 33:US ~31:63/419,214 ~32:25/10/2022;33:US ~31:63/464,982 ~32:09/05/2023

2025/05532 ~ Provisional ~54:SYSTEM AND METHOD FOR ACCELERATED HOMEOWNERSHIP THROUGH INTEREST REBALANCING AND STRUCTURED MULTI-TIER FINANCE PARTICIPATION ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/05538 ~ Provisional ~54:A COLLAPSIBLE FRAME ~71:Wolter MISKE, 1190 Dunwoodie Ave Waverley, South Africa ~72: Wolter Miske~

2025/05541 ~ Complete ~54:METHOD AND SYSTEM FOR LOW-POWER CLOCK DELAY ~71:Zhejiang Saisi Electronical Technology Co., Ltd., No. 1376 Shunze Road, Nanhu District, Jiaxing City, Zhejiang Province, People's Republic of China ~72: Hui CAO;Jia SHEN;Peng ZHANG;Yan ZHAO;Yonghe TIAN~ 33:CN ~31:2025107288766 ~32:30/05/2025

2025/05555 ~ Complete ~54:SOLAR TRACKING SYSTEM SUPPORT DEVICES ~71:Array Tech, Inc., 3901 Midway Place NE, ALBUQUERQUE 87109, NM, USA, United States of America ~72: KUBAN, Michael J.;SOKOL, Jonathon P.~ 33:US ~31:63/480,249 ~32:17/01/2023;33:US ~31:18/408,300 ~32:09/01/2024

2025/05571 ~ Complete ~54:IN-SITU TREATMENT OF A FISCHER-TROPSCH CATALYST ~71:BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James~ 33:EP ~31:22211100.7 ~32:02/12/2022;33:EP ~31:22211105.6 ~32:02/12/2022;33:EP ~31:22211242.7 ~32:02/12/2022;33:EP ~31:22211252.6 ~32:02/12/2022;33:EP ~31:22211255.9 ~32:02/12/2022;33:EP ~31:22211256.7 ~32:02/12/2022;33:EP ~31:22211257.5 ~32:02/12/2022

2025/05542 ~ Complete ~54:ONLINE MONITORING SYSTEM AND METHOD FOR HEMODIALYSIS ~71:The Second Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University, No. 109 Xueyuan West Road, Lucheng District, Wenzhou City, Zhejiang Province, 325000, People's Republic of China ~72: Baihao Chen;Bairu Ye;Jiadan Lu;Jing Zhang;Lingwei Jin;Xinru Lu~ 33:CN ~31:202510736449.2 ~32:04/06/2025

2025/05544 ~ Complete ~54:MARKER BALL MOUNTING DEVICE, AND MARKER BALL DEPLOYMENT SYSTEM AND METHOD ~71:KRONOS AERIAL PHOTOGRAPHY LTD, 37 Amal St., Petach Tikva, 4951337, Israel ~72: GIL NACHMANY;MACHLUF ELIYAHU MALKA~ 33:IL ~31:314043 ~32:01/07/2024

2025/05561 ~ Complete ~54:METHOD FOR DETERMINING AN EFFICIENCY COEFFICIENT OF A PHOTOVOLTAIC SYSTEM ~71:TotalEnergies OneTech, La Défense 6, 2 Place Jean Millier, COURBEVOIE 92400, FRANCE, France ~72: DI DOMENICO, Domenico;LEURENT, Maxime~ 33:EP ~31:22315343.8 ~32:21/12/2022

2025/05564 ~ Complete ~54:MULTIPASS SPECTROSCOPIC ABSORPTION CELL AND GAS SENSOR COMPRISING SUCH ~71:Automotive Coalition for Traffic Safety, Inc., 900 Sycolin Rd SE, Suite 100, LEESBURG 20175, VA, USA, United States of America ~72: KRISTOFERS, Jakob;MARTIN, Hans;ORELUND, Jonas~ 33:SE ~31:2251481-4 ~32:16/12/2022

2025/05535 ~ Provisional ~54:HORSE SADDLE RACK FOR VEHICLE TRANSPORTATION ~71:Victoria de la Harpe, 126 12th Street, South Africa ~72: Victoria de la Harpe~ 33:ZA ~31:N/A ~32:29/06/2025

2025/05545 ~ Complete ~54:PORTABLE PLUG-AND-PLAY NETWORK SECURITY TESTING AND THREAT ANALYSIS DEVICE ~71:Dr. Shital Yadavrao Gaikwad, Senior Assistant professor (B.E. M.Tech. Ph.D), Department of Computer Science and Engineering, Mahatma Gandhi Mission's College of Engineering, Nanded, Nanded Bypass Rd, Hingoli Naka, Ambekar Nagar, Nanded-Waghala, Nanded-431601, Maharashtra, India ~72: Dr. Shital Yadavrao Gaikwad~

2025/05556 ~ Complete ~54:BINDING MOLECULES AGAINST A PIWIL1 PEPTIDE-HLA COMPLEX ~71:Immunocore Limited, 92 Park Drive, Milton Park, ABINGDON OX14 4RY, OXFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: ALEKSIC, Tamara;ATKIN, Kate;CHILLAKURI, Chandramouli;CREESE, Andrew;GRANT, Emma;HARPER, Steve;JAWORSKI, Jakub;KARUPPIAH, Vijay;LIDDY, Nat;MAI, Nicole;MATEOS-DIAZ, Eduardo;PENAS, Ana;RIBEIRO, Ana;RODENAS, Pedro Cuadrado;TECHINE, Arnaud~ 33:GB ~31:2300226.4 ~32:06/01/2023;33:GB ~31:2312621.2 ~32:18/08/2023

2025/05530 ~ Provisional ~54:SYSTEM AND METHOD EMBODYING INCLUSIVE OWNERSHIP ARCHITECTURE FOR ECONOMIC INFRASTRUCTURE AND OPERATING ASSETS THROUGH ESG-ALIGNED PRIVATE SECTOR SYSTEMS ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/05548 ~ Complete ~54:DRIVE DEVICE HAVING A MAIN BODY AND HAVING AT LEAST ONE ROTATING UNIT ~71:JSM GMBH, Balgerbrück 8, Germany ~72: Jochen SCHLEEF~ 33:DE ~31:10 2023 101 771.3 ~32:25/01/2023

2025/05557 ~ Complete ~54:GEMSTONE HOLDER ~71:De Beers UK Ltd, 17 Charterhouse Street, LONDON EC1N 6RA, UNITED KINGDOM, United Kingdom ~72: BODHINAYAKE, Sud;FELIX, James;NIKIFOROV, Ivan;SUGANTHAN, Shan~ 33:GB ~31:2219220.7 ~32:20/12/2022

2025/05559 ~ Complete ~54:ANTI-UNC5C ANTIBODIES ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: BARTON, Justin;DIAS DO NASCIMENTO, Jorge Norman;FINCH, Donna;GALSON, Jacob Daniel;HAWTHORNE, William James;JENKINS KNIGHT, Emma;KOLASINSKA-ZWIERZ, Paulina Maria;LEGG, Sandrine;LEWIS, Giles;MCCARTHY, James;MINTER, Ralph Raymond;MITCHELL, Laura Sophie;OSBOURN, Jane Katharine;PEDIADITAKIS, Iosif;SIDOR, Michelle~ 33:GB ~31:2300277.7 ~32:09/01/2023;33:GB ~31:2317371.9 ~32:13/11/2023;33:GB ~31:2319255.2 ~32:15/12/2023

2025/05572 ~ Complete ~54:IN-SITUE TREATMENT OF A FISCHER-TROPSCH CATALYST ~71:BP P.L.C., 1 St James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James~ 33:EP ~31:22211100.7 ~32:02/12/2022;33:EP ~31:22211105.6 ~32:02/12/2022;33:EP ~31:22211242.7 ~32:02/12/2022;33:EP ~31:22211252.6 ~32:02/12/2022;33:EP ~31:22211255.9 ~32:02/12/2022;33:EP ~31:22211256.7 ~32:02/12/2022;33:EP ~31:22211257.5 ~32:02/12/2022

2025/05531 ~ Provisional ~54:SYSTEM AND METHOD FOR ACCELERATED HOMEOWNERSHIP THROUGH INTEREST REBALANCING AND STRUCTURED MULTI-TIER FINANCE PARTICIPATION ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/05540 ~ Complete ~54:A KIND OF READY-MIXED PUMPING CONCRETE AND ITS PREPARATION METHOD ~71:University of Science and Technology Beijing, University of Science and Technology Beijing, 30 College Road, Haidian District, Beijing, 100083, People's Republic of China ~72: Guoping Wen;Haojing Ba;Siqi Zhang;Wen Ni;Yongjian Ju~

2025/05547 ~ Complete ~54:INHIBITORS OF MPTP ~71:NRG THERAPEUTICS LTD, Stevenage Bioscience Catalyst, Gunnels Wood Road, United Kingdom ~72: ARMSTRONG, Rachel;BOYD, Susan;KULAGOWSKI, Jan;LADDUWAHETTY, Tammy;MILLER, Neil;NEGOITA-GIRAS, Gabriel;OUVRY, Gilles;ROWLEY, Michael;RUTTER, Richard;STEWART, Mark;THOMSON, Christopher;TUFFNELL, Andrew~ 33:GB ~31:2300833.7 ~32:19/01/2023

2025/05552 ~ Complete ~54:SYSTEM AND PROCESS FOR PROGRESSIVE REFRACTORY ORE TRANSFORMATION FOR COPPER LEACHING ~71:Ceibo Inc., Eliodoro Yañez 2990, Torre B, Piso 7, Providencia, SANTIAGO 7510277, CHILE, Chile ~72: BÓRQUEZ MARTÍNEZ, Fernando Matías;CARTAGENA FAGERSTRÖM, Alejandro Horacio;GUAJARDO CONTRERAS, Nicole Stephanie;ROMÁN ESPINOZA, Anselmo Enrique;URREJOLA SANTA MARÍA, Catalina~ 33:US ~31:63/521,010 ~32:14/06/2023

2025/05560 ~ Complete ~54:OPTICAL CHARACTERISATION OF A GEMSTONE ~71:De Beers UK Ltd, 17 Charterhouse Street, LONDON EC1N 6RA, UNITED KINGDOM, United Kingdom ~72: BODHINAYAKE, Sud;FELIX, James;LANIGAN, Peter;NIKIFOROV, Ivan;POWELL, Graham;SUGANTHAN, Shan~ 33:GB ~31:2219219.9 ~32:20/12/2022

2025/05568 ~ Complete ~54:PREPARATION CONTAINING BISPECIFIC BINDING MOLECULE BINDING TO VEGF AND ANG2 AND USE THEREOF ~71:Innovent Biologics (Suzhou) Co., Ltd., 168 Dongping Street, Suzhou Industrial Park, SUZHOU 215123, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: HE, Bing;LIU, Yi;MA, Yidong~ 33:CN ~31:202211545721.1 ~32:01/12/2022

2025/05570 ~ Complete ~54:FISCHER-TROPSCH CATALYST ACTIVATION ~71:BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James~ 33:EP ~31:22211256.7 ~32:02/12/2022

2025/05573 ~ Complete ~54:METHOD FOR FORMING A CLOSURE ASSEMBLY FOR A CONTAINER ~71:Ardagh Metal Packaging Europe GmbH, Grafenauweg 4, ZUG 6300, SWITZERLAND, Switzerland ~72: JÖBGES, Udo;RIECK, Hajo~ 33:DE ~31:10 2022 133 590.9 ~32:16/12/2022

2025/05534 ~ Provisional ~54:SYSTEM AND METHOD FOR INTEGRATED DIGITAL SPATIAL DATA MANAGEMENT, EVENT-SPECIFIC INDOOR/OUTDOOR NAVIGATION, AND AUGMENTED REALITY GUIDANCE FOR DYNAMIC ENVIRONMENTS ~71:Zumi Collaborative Works (Pty) Ltd, 6814 Thornridge Crescent, South Africa ~72: Tlotlo Molope~

2025/05550 ~ Complete ~54:ORAL VACCINE ~71:WESTFÄLISCHE WILHELMS-UNIVERSITÄT MÜNSTER, Schlossplatz 2, Germany ~72: Florian LENZ;Joachim JOSE;Yvonne BÖRGELING~ 33:LU ~31:LU503544 ~32:27/02/2023

2025/05553 ~ Complete ~54:COMPOSITIONS FOR RUBBER ARTICLES AND RUBBER ARTICLES WITH LOW CARBON FOOTPRINT AND HIGH MECHANICAL STRENGTH ~71:UPM-Kymmene Corporation, Alvar Aallon katu 1, HELSINKI 00100, FINLAND, Finland ~72: DIEHL, Florian;GALL, Barbara;HÜBSCH, Christian~

2025/05558 ~ Complete ~54:THERAPEUTIC OLIGONUCLEOTIDE-CONTAINING PHARMACEUTICAL COMPOSITIONS AND DOSING REGIMENS USING THE SAME ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: GARG, Ashish;HAW, Helle Linnebjerg;KAUR, Amritpreet;KREGE, John Henry;MA, Xiaosu;NI, Wei~ 33:US ~31:63/479,757 ~32:13/01/2023

2025/05566 ~ Complete ~54:COMPOSITIONS AND METHODS FOR CONTROLLING GLUCOSE LEVELS ~71:Sirtsei Pharmaceuticals, Inc., RDU Center, 3000 RDU Center Drive, Suite 130, MORRISVILLE 27560, NC, USA, United States of America ~72: ABERNATHY, Kelly J.;ACKERMANN, Michael Friedrich;BUTTS, Stephen E.~ 33:US ~31:63/478,826 ~32:06/01/2023

2025/05567 ~ Complete ~54:METHOD FOR STACKED ELUTION OF MOTHER-DAUGHTER RADIONUCLIDES ~71:NorthStar Medical Technologies, LLC, 1800 Gateway Blvd., BELOIT 53511, WI, USA, United States of America ~72: DEVRIES, Daniel;DRUM, Tyler;HARVEY, James T.;ISENSEE, Glenn~ 33:US ~31:63/437,228 ~32:05/01/2023

2025/05574 ~ Complete ~54:METHODS FOR TREATING PRIMARY SJOGREN'S SYNDROME USING FCRN ANTAGONISTS ~71:argenx BV, Industriepark Zwijnaarde 7, GHENT 9052, BELGIUM, Belgium ~72: ELEWAUT, Dirk;JACOBS, Julie;PAPADOPOULOU, Despoina;PEENE, Isabelle Maria A.;VAN MIDDENDORP, Joost Johannes~ 33:US ~31:63/438,667 ~32:12/01/2023

2025/05577 ~ Complete ~54:TUNGSTEN ALLOY WIRE, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:XIAMEN HONGLU TUNGSTEN MOLYBDENUM INDUSTRY CO., LTD., No. 339, Liansheng Road, North Jimei Industrial Zone, Jimei District, Xiamen, People's Republic of China ~72: FANG, Yijin;GUO, Donghong;HUANG, Canxin;JIANG, Xiangcao;LV, Sheng;TANG, Minfeng;YU, Chunlei;ZHANG, Weibing~ 33:CN ~31:202311813481.3 ~32:26/12/2023

2025/05549 ~ Complete ~54:BLOOD TUMOR DETECTION EQUIPMENT ~71:THE FIRST AFFILIATED HOSPITAL OF GUANGZHOU MEDICAL UNIVERSITY (GUANGZHOU RESPIRATORY CENTER), No. 151 Yanjiang West Road, Guangzhou, Guangdong, 510120, People's Republic of China ~72: HUANG, Zhenqian;LIU, Dan;LIU, Longlong;WANG, Yaya~

2025/05551 ~ Complete ~54:A WEAR MEMBER RETAINING ASSEMBLY ~71:Lycopodium Minerals Pty Ltd, Unit 4, 27 Godwin Street, Bulimba, 4171, QUEENSLAND, AUSTRALIA, Australia ~72: RUGGIERO, Bruno~ 33:AU ~31:2022903839 ~32:14/12/2022

2025/05554 ~ Complete ~54:LIPID CONJUGATES FOR THE DELIVERY OF THERAPEUTIC AGENTS TO ADIPOSE TISSUE ~71:Arrowhead Pharmaceuticals, Inc., 177 East Colorado Boulevard, Suite 700, PASADENA 91105, CA, USA, United States of America ~72: BENSON, Jonathan;GLEBOCKA, Agnieszka;MAJEWSKI, Mark;PEI, Tao;XU, Zhao~ 33:US ~31:63/478,795 ~32:06/01/2023;33:US ~31:63/612,901 ~32:20/12/2023

2025/05563 ~ Complete ~54:DETECTION OF VARIATION IN A NOODLE PACKAGE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY CH-1800, SWITZERLAND, Switzerland ~72: BANERJEE,

Nayandeep;CHATTOPADHYAY, Ayan~ 33:IN ~31:202211070560 ~32:07/12/2022;33:EP ~31:23153215.1 ~32:25/01/2023

2025/05576 ~ Complete ~54:A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061522 ~32:15/11/2023

. - APPLIED ON 2025/07/01 -

2025/05627 ~ Complete ~54:FRICTION ROCK STABILISER WITH EXPANSION MECHANISM ~71:RSC Mining (Pty) Ltd, 1 Tedstone Drive, Wadeville, South Africa ~72: CRONJE, Frans Hermanus~ 33:ZA ~31:2024/02750 ~32:10/04/2024

2025/05590 ~ Provisional ~54:LOW-VOLTAGE THERMOELECTRIC COOKING SYSTEM FOR OFF-GRID AND EMERGENCY USE ~71:Tshegofatso, 140 second avenue, welgedacht, South Africa ~72: Tshegofatso~

2025/05592 ~ Provisional ~54:AUTONOMOUS SOLAR-POWERED AI WATERBORNE PARASITE DETECTION PROBE FOR FRESHWATER ENVIRONMENTS ~71:Tshegofatso, 140 second avenue, welgedacht, South Africa ~72: Tshegofatso~

2025/05595 ~ Provisional ~54:OFFLINE AI-BASED LOAD SHEDDING FORECASTING DEVICE WITH REAL-TIME ELECTRICAL SIGNAL ANALYSIS ~71:Tshegofatso, 140 second avenue, welgedacht, South Africa ~72: Tshegofatso~

2025/05598 ~ Complete ~54:A FILTERED DEEP VEIN CATHETER ~71:THE FIRST AFFILIATED HOSPITAL OF SOOCHOW UNIVERSITY, No.899 Pinghai Road, Gusu District, Suzhou, Jiangsu, 215000, People's Republic of China ~72: HUANG, Lei;JI, Fuhai;PENG, Ke~ 33:CN ~31:202411189828.6 ~32:28/08/2024

2025/05602 ~ Complete ~54:INTELLIGENT DETECTION TROLLEY FOR HYDROPOWER TUNNEL ~71:THREE GORGES JINSHA RIVER YUNCHUAN HYDROPOWER DEVELOPMENT CO., LTD., WUDONGDE ENGINEERING NEW VILLAGE, People's Republic of China;TONGJI UNIVERSITY, NO. 1239 SIPING ROAD, People's Republic of China ~72: BAI, Zhipeng;DONG, Zhongming;GAO, Chen;GUO, Fenghe;HE, Xiuru;SHEN, Runjie;TAO, Jiquan;WANG, Yongchun;YANG, Linchuan;YE, Fei;ZHANG, Junjie;ZHAO, Xinyi;ZHONG, Hongxing~

2025/05605 ~ Complete ~54:PRIMER-PROBE SET FOR DETECTING HUMAN INTERLEUKIN 4 RECEPTOR ALPHA IL4RA MRNA, KIT, AND USE THEREOF ~71:HANGZHOU ZHEDA DIXUN BIOLOGICAL GENE ENGINEERING CO., LTD., Rm. 201-209, Bldg. 2, No. 568 Binkang Rd., Binjiang Dist., Hangzhou, People's Republic of China ~72: JIANG, Xuehan;LIU, Yi;SHEN, Mei;WANG, Jiping;WU, Shandong;WU, Zhoujie;XU, Puyang;YANG, Xukai;YIN, Deling;ZHENG, Shuai;ZHU, Mingzhi~ 33:CN ~31:2024119672714 ~32:30/12/2024

2025/05608 ~ Complete ~54:PROTECTION NETTING FOR CIVIL WORKS WITH HIGHLY RESISTANT METAL WIRES WITH A PROTECTIVE COATING ~71:OFFICINE MACCAFERRI S.P.A., Via Albricci Alberico, 9, Italy ~72: Antoine GAGLIARDI~ 33:IT ~31:102023000000357 ~32:12/01/2023

2025/05612 ~ Complete ~54:SULPHATE REMOVAL USING FLUIDIZED BED REACTOR ~71:IDE WATER TECHNOLOGIES LTD., PO Box 5016, Hamatechet Street, Hasharon Industrial Park, 60920, Kadima, Israel ~72: DRAK, Alex;EFRAT, Tomer;ZAKEN, Roi~ 33:GB ~31:2300360.1 ~32:10/01/2023

2025/05584 ~ Provisional ~54:A SYSTEM FOR, AND METHOD OF, INCREASING FINANCIAL SECURITY FOR AGENTS AND STAKEHOLDERS IN REAL ESTATE TRANSACTIONS ~71:CLOETE, Deon, 151 Rockhaven, 78 Augrabies Street, Mooikloof Ridge Estate, Mooikloof Ridge, South Africa ~72: CLOETE, Deon~

2025/05585 ~ Provisional ~54:ELECTROLYZER, SYSTEM AND METHOD FOR PRODUCING HYDROGEN GAS ~71:CRONJE, Jacobus, 6 Sandbaai Close, Langebaan 7357, SOUTH AFRICA, South Africa ~72: CRONJE, Jacobus~

2025/05594 ~ Provisional ~54:AUTONOMOUS ATMOSPHERIC MOISTURE HARVESTING SYSTEM WITH ADAPTIVE MESH AND GRAVITY-FED IRRIGATION ~71:Tshegofatso, 140 second avenue, welgedacht, South Africa ~72: Tshegofatso~

2025/05600 ~ Complete ~54:TRIAXIAL TESTING APPARATUS FOR STUDYING STRENGTH AND DEFORMATION CHARACTERISTICS OF COARSE-GRAINED MATERIALS UNDER K0 CONSOLIDATION CONDITION ~71:Lishui University, No. 1 Xueyuan Road, Lishui City, Zhejiang Province, 323000, People's Republic of China ~72: Tang Jie~

2025/05603 ~ Complete ~54:HYDROGEN GENERATING APPARATUS ~71:Advanced Hydrogen Technologies Group Limited, 55 Baker Street, LONDON W1U 7EU, UNITED KINGDOM, United Kingdom ~72: TO, BE ADVISED~ 33:GB ~31:2506403.1 ~32:28/04/2025

2025/05611 ~ Complete ~54:METHOD FOR REPAIRING WASTE REVERSE OSMOSIS MEMBRANE AND REMOVING INSOLUBLE POLLUTANTS ~71:CHINA ENERGY TECHNOLOGY COMMERCIALIZATION (BEIJING) CO., LTD., No.9 Binhe Road, Future Science City, People's Republic of China ~72: HAI, Yuyan;MA, Rui;QI, Yunlong;WEN, Xin;XIONG, Rihua~ 33:CN ~31:202310032890.3 ~32:10/01/2023

2025/05613 ~ Complete ~54:PREPARATION METHOD FOR GLUFOSINATE OR DERIVATIVE THEREOF ~71: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;XIANG ZUO;XIAOLIANG ZENG;YINGSUI YIN;YONGJIANG LIU;YUEDONG LI;YUTING QIN~ 33:CN ~31:202211545734.9 ~32:02/12/2022

2025/05617 ~ Complete ~54:MULTI-ANTIGEN CHIMERIC VACCINE AGAINST POXVIRUS AND USE THEREOF ~71:INSTITUTE OF MICROBIOLOGY, CHINESE ACADEMY OF SCIENCES, No.3, Yard1, Beichenxi Road, Chaoyang District, People's Republic of China ~72: DU, Pei;GAO, Fu;KONG, Tianxiang;MA, Renyi;QI, Jianxun;QU, Xiao;WANG, Qihui;WU, Lili~ 33:CN ~31:202211537702.4 ~32:02/12/2022

2025/05586 ~ Provisional ~54:MOBILE TRAILER BARBERSHOPS OR HAIR SALON PLATFORM ~71:Thulani Paul Nzuzo, 493 Mohlomi Street, Naledi Extention2, South Africa ~72: Thulani Paul Nzuzo~

2025/05596 ~ Complete ~54:INTELLIGENT AND SECURE PARCEL DELIVERY BOX SYSTEM ~71:Chatillon van der Westhuizen, 30 Pomela Crescent, Vredekloof Heights, South Africa ~72: Chatillon van der Westhuizen~

2025/05610 ~ Complete ~54:MATERIAL CONVEYING SYSTEM WITH ATMOSPHERE PROTECTION, AND GAS FILLING METHOD AND GAS REPLACING METHOD THEREFOR ~71:CISDI ENGINEERING CO., LTD., No. 1, Shuanggang Road, Yuzhong District, Chongqing, 400013, People's Republic of China;CISDI SHANGHAI ENGINEERING CO., LTD., No. 1 Building, 803 Lane, Shuangcheng Road, Baoshan District, Shanghai, 200940, People's Republic of China ~72: DAI, Wenjun;MA, Yunfeng;WANG, Shusheng;WU, Kaiji;ZHANG, Tao;ZHANG, Yudong;ZHENG, Jun~ 33:CN ~31:202310059742.0 ~32:16/01/2023

2025/05583 ~ Provisional ~54:A MOUNTING ARRANGEMENT ~71:THE TREVOR CHARLES FROST FAMILY TRUST (IT 3642/95), 4 NUT AVENUE, OLIFANTSFONTEIN, GAUTENG, 1665, SOUTH AFRICA, South Africa ~72: MEIRING, Charl~

2025/05589 ~ Provisional ~54:MODULAR AI-AUGMENTED POWER MANAGEMENT SYSTEM WITH MULTI-SOURCE INPUT AND AUTONOMOUS LOAD ARBITRATION ~71:Tshegofatso, 140 second avenue, welgedacht, South Africa ~72: Tshegofatso~

2025/05604 ~ Complete ~54:METHOD FOR CONTROLLING BATCH-TO-BATCH VARIATION AND IMPROVING SPECIFICITY BY CHANGING TIME FOR ADDING RAW MATERIALS AFTER ACTIVATION OF MICROSPHERES ~71:HANGZHOU ZHEDA DIXUN BIOLOGICAL GENE ENGINEERING CO., LTD., Rm. 201-209, Bldg. 2, No. 568 Binkang Rd., Binjiang Dist., Hangzhou, People's Republic of China ~72: CHEN, Shanshan;FAN, Hongyu;FU, Hongliang;HUANG, Yingwen;JIANG, Yuqi;LIU, Yi;WANG, Meijie;WANG, Yifei;WU, Shandong;WU, Shanhong;WU, Zhoujie;YIN, Deling~ 33:CN ~31:2024117736196 ~32:05/12/2024

2025/05615 ~ Complete ~54:FISCHER-TROPSCH CATALYST ACTIVATION ~71:BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James~ 33:EP ~31:22211257.5 ~32:02/12/2022

2025/05626 ~ Complete ~54:SELF-DRILLING ROCK ANCHOR ~71:RSC Mining (Pty) Ltd, 1 Tedstone Drive, Wadeville, South Africa ~72: FERREIRA, Theodorus Daniel;MEIRING, Raymond;STEWART, Louis~ 33:ZA ~31:2024/02112 ~32:10/04/2024

2025/05588 ~ Provisional ~54:WEARABLE SOLAR-RECHARGEABLE FLAMELESS IGNITION DEVICE FOR SURVIVAL AND INFORMAL ENVIRONMENTS ~71:Tshegofatso, 140 second avenue, welgedacht, South Africa ~72: Tshegofatso~

2025/05593 ~ Provisional ~54:MODULAR FIELD-DEPLOYABLE SOIL DIAGNOSTIC DEVICE WITH TIERED SENSOR AND CONNECTIVITY SYSTEM ~71:Tshegofatso, 140 second avenue, welgedacht, South Africa ~72: Tshegofatso~

2025/05599 ~ Complete ~54:PRODUCTION PROCESS, EQUIPMENT AND SYSTEM FOR FACTORY-MIXED WARM AND HOT RECYCLED ASPHALT MIXTURE ~71:Ordos Lutai Highway Engineering Co., Ltd., Floor 15, Building A2, Yihong International City, No. 33, Jingzhihuan Road, Dongsheng District, Ordos City, Inner Mongolia Autonomous Region, 017099, People's Republic of China;Ordos Lutai New Materials Technology Development Co., Ltd., North of Weiyi Road and East of Jingwu Road, Sanshangliang Industrial Park, Dalate Banner, Ordos City, Inner Mongolia Autonomous Region, 014399, People's Republic of China ~72: Feilin GAO;Feixiang GAO;Zhibao LUO;Zhong GAO~ 33:CN ~31:202411137664.2 ~32:19/08/2024

2025/05601 ~ Complete ~54:MODULAR HYDROPONIC PLANT GROWING TOWER AND STACKABLE MODULES FOR ASSEMBLING THE SAME ~71:ATLAS PLASTICS (PTY) LIMITED, 31 Neutron Road, Uraniaville, South Africa ~72: RIAAN UYS VENTER~ 33:ZA ~31:2024/06668 ~32:29/08/2024

2025/05606 ~ Complete ~54:HYPERSPECTRAL DETECTION DEVICE AND METHOD FOR FOREIGN OBJECT DEBRIS ON AIRPORT PAVEMENTS ~71:CIVIL AVIATION FLIGHT UNIVERSITY OF CHINA, No.46, Section 4, Nanchang Road, Guanghan, People's Republic of China ~72: DAN, Youquan;JIANG, Qin;LI, Mengdi;LIU, Qingsong;SUN, Peiyu;TANG, Shenlan;XU, Luopeng~

2025/05607 ~ Complete ~54:POLYNUCLEOTIDE MOLECULE FOR PREVENTING OR TREATING HPV INFECTION-RELATED DIDEASES ~71:RINUAGENE BIOTECHNOLOGY CO., LTD, Unit 201, Building 24, Zone C, Suzhou Biomedical Industrial Park (Phase II), 218 Sangtian Street, Suzhou Industrial Park, Suzhou Zone Of China (Jiangsu) Pilot FreeTrade Zone, Suzhou, People's Republic of China;RINUAGENE INTERNATIONAL HK LIMITED, Suite 603, 6/F., Laws Commercial Plaza, 788 Cheung Sha Wan Road, Kowloon, People's Republic of China ~72: CEN, Shan;DONG, Yijie;WANG, Jing;ZHANG, Weiguo~ 33:CN ~31:PCT/CN2022/143328 ~32:29/12/2022;33:CN ~31:PCT/CN2023/114487 ~32:23/08/2023;33:CN ~31:2023116841858 ~32:08/12/2023

2025/05614 ~ Complete ~54:A STABLE AGROCHEMICAL COMPOSITION ~71:UPL Europe Supply Chain GmbH, Suurstoffi 37, ROTKREUZ/RISCH 6343, SWITZERLAND, Switzerland;UPL Mauritius Limited, 6th Floor, Suite 157B, Harbor Front Building, President John Kennedy Street, PORT LOUIS, MAURITIUS, Mauritius ~72: GOVENDER, Prilene;MNCUBE, Maureen~ 33:IN ~31:202221069621 ~32:02/12/2022

2025/05781 ~ Provisional ~54:SYSTEM AND METHOD FOR TOKENIZING IN-GROUND MINING RESERVES WITH THIRD-PARTY VERIFIED ISSUANCE OVERSIGHT ~71:Francois Pierre Joubert, 521,20th Ave, Rietfontein, South Africa ~72: Francois Pierre Joubert~

2025/05587 ~ Provisional ~54:COOLING GAPS ~71:Mikateko elia mlambo, 160 firelily street countryview, South Africa ~72: Mikateko elia mlambo~

2025/05591 ~ Provisional ~54:MODULAR REPROGRAMMABLE INFRASTRUCTURE SUBSTRATE FOR POWER, SIGNAL, AND STRUCTURAL INTEGRATION ~71:Tshegofatso, 140 second avenue, welgedacht, South Africa ~72: Tshegofatso~

2025/05597 ~ Complete ~54:A RECONFIGURABLE BROADBAND TRANSMISSION-TYPE LINEAR POLARIZATION CONTROLLER ~71:Wannan Medical College, No. 22 Wenchang West Road, Yijiang District, Wuhu, Anhui, People's Republic of China ~72: Zhang Bianmei~ 33:CN ~31:2025104173116 ~32:03/04/2025

2025/05609 ~ Complete ~54:NOVEL SUBSTITUTED PYRAZINE-CARBOXAMIDE-IMIDAZOPYRIDINE DERIVATIVES ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: DAHMANN, Georg;DU HOFFMANN, Johann Faustus;GERLACH, Kai;GIOVANNINI, Riccardo;HOHN, Christoph;JUST, Stefan;PFAU, Roland;SOMMER, Heiko;SPECKER, Christian~ 33:EP ~31:22212299.6 ~32:08/12/2022

2025/05616 ~ Complete ~54:SOYBEAN FT1A GENE MUTATIONS ~71:Inari Agriculture Technology, Inc., One Kendall Square, Building 600/700, Suite 7-501, CAMBRIDGE 02139, MA, USA, United States of America ~72: GAULT, Christine Marie;LEMMON, Zachary;ROUNSLEY, Steven D.;SALA, Rodrigo German~ 33:US ~31:63/479,312 ~32:10/01/2023

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2025/05622 ~ Provisional ~54:PARK AND PAY TECH SOLUTIONS ~71:Kuziwa Charles Katso, Unit 49 , Golden Oaks Complex , 55 pretoria Road ,comet, boksburg, gauteng, 1459, South Africa ~72: Kuziwa Charles Katso~

2025/05624 ~ Provisional ~54:SALIVA-BASED DIAGNOSTIC KIT WITH UBUNTU AI INTEGRATION ~71:Pierre Johann van der Merwe, 42 Bergsig street, South Africa ~72: Pierre Johann van der Merwe~

2025/05647 ~ Complete ~54:GENE THERAPY COMPOSITIONS AND METHODS FOR TREATING DISEASES OF THE RETINA ~71:Ray Therapeutics, Inc., One Sansome Street, Suite 3500, SAN FRANCISCO 94104, CA, USA, United States of America;Wayne State University, 656 West Kirby, Suite 200, DETROIT 48202, MI, USA, United States of America ~72: ABRAMS, Gary;BRESGE, Paul;FRANCIS, Peter;LU, Qi;PAN, Zhuo-Hua~ 33:US ~31:63/485,596 ~32:17/02/2023

2025/05650 ~ Complete ~54:MICROBIOCIDAL PYRAZOLE DERIVATIVES ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: EDMUNDS, Andrew;MAHAJAN, Atul;SCARBOROUGH, Christopher Charles~ 33:IN ~31:202311005537 ~32:27/01/2023;33:EP ~31:23166392.3 ~32:03/04/2023;33:EP ~31:23208345.1 ~32:07/11/2023

2025/05654 ~ Provisional ~54:UNITY WAREHOUSE AND DISTRIBUTION ~71:Kabelo Ramapuputla, 97 Noordenfelt avenue, South Africa ~72: Kabelo Ramapuputla~ 33:ZA ~31:1 ~32:01/07/2025

2025/05621 ~ Provisional ~54:METHOD FOR PRODUCTION OF AN ANIMAL CELL CULTURE PROTEIN SERUM FROM FLAMMULINA VELUTIPES MYCELIUM ~71:Sawubona Mycelium, 1/152 London Lane, South Africa ~72: Neo Moloi;Winston Halalisani Nkosinathi Gumede~

2025/05628 ~ Complete ~54:SOD ORAL LOZENGE AND PREPARATION METHOD THEREOF ~71:Changsha gu'ao Biotechnology Co., Ltd, 604, Building 1, Zone C, Jindaoyuan Industrial Building, No. 179 Huizhi Middle Road, High tech Development Zone, Changsha City, Hunan Province, 410217, People's Republic of China ~72: GAO, Jianjun;ZHAN, Yonggong~

2025/05630 ~ Complete ~54:AN URBAN ECOLOGICAL GREENWAY PLANT DIVERSITY CULTIVATION DEVICE ~71:Qingdao University, Qingdao University, Ningxia Road, Laoshan District, Qingdao City, Shandong Province, 266071, People's Republic of China ~72: Chi Zhang;Fanxin Meng;Haili Zhang;Hui Xue;Jie Luo;Mir Muhammad Nizamani;Muhammad Awais;Qin Zhou;Wei Wang;Zongshan Zhao~

2025/05636 ~ Complete ~54:ORGANOBORON COMPLEX AND ITS PREPARATION METHOD AND APPLICATION ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, LONGXIANG AVENUE, XINCHENG DISTRICT, PINGDINGSHAN CITY, People's Republic of China ~72: FAN, Ruilu;HUANG, Yinhe;LI, Pengfei;LIU, Huayu;REN, Haibo;TIAN, Yongguo;ZHANG, Yanbing~

2025/05641 ~ Complete ~54:SOLAR CELL MODULE CONVENIENT FOR ASSEMBLING ~71:HUAINAN NORMAL UNIVERSITY, DONGSHAN WEST ROAD, HUAINAN CITY, People's Republic of China ~72: LIU, Yong;WANG, Zifeng;ZHANG, Ke;ZHANG, Xian~

2025/05653 ~ Complete ~54:WELDED QUICK-CONNECT FITTING, PIPING SYSTEM, AND PIPELINE CONNECTION METHOD ~71:RIFENG ENTERPRISE (FOSHAN) CO., LTD., F1-F14, No. 1 Rifeng Road, Leping, Sanshui Foshan, Guangdong 528100, People's Republic of China;RIFENG ENTERPRISE GROUP CO., LTD., RIFENG ENTERPRISE GROUP CO., LTD, People's Republic of China;RIFENG TECHNOLOGY CO., LTD., 901, 9/F, Rifeng Building, No. 16 Zumiao Road, Chancheng District Foshan, Guangdong 528000, People's Republic of China ~72: DIAO, Zhenbin;HE, Wangzhi;LI, Ximin;LIN, Xiyong;QIU, Banglong~ 33:CN ~31:202223551282.3 ~32:28/12/2022;33:CN ~31:202321202127.2 ~32:17/05/2023

2025/05620 ~ Provisional ~54:“UNIFIED MODULAR PREPAID INSURANCE SYSTEM FOR CHILD PROTECTION COVER IN INFORMAL AND SEMI-FORMAL ECONOMIES” ~71:Thanduxolo Aubrey Mthembu, 82 Smit Street, South Africa ~72: Thanduxolo Aubrey Mthembu~

2025/05640 ~ Complete ~54:MATERIAL SHAPING DEVICE FOR MOLECULAR MAGNETIC MATERIALS PREPARATION ~71:JINZHONG UNIVERSITY, JZU, NO. 199, WENHUA STREET, YUCI DISTRICT, JINZHONG CITY, People's Republic of China ~72: CHAI, Zhaoxia;LIANG, Ruirui;LIU, Peng;MIN, Jiongtian;WEI, Xiaoqin~

2025/05643 ~ Complete ~54:ENERGY-EFFICIENT PROCESS FOR SEPARATING BUTENES FROM C4-HYDROCARBON STREAMS ~71:EVONIK OXENO GMBH & CO. KG, PAUL-BAUMANN-STRASSE 1, 45772 MARL, GERMANY, Germany ~72: BECK, Thomas;BRANGES, Roland;HOHMANN, Dietmar;OLDENKOTT, Andreas;PAUL, Niklas;RIX, Armin, Matthias;SCHRÖDER, Moritz;SIX, Tanita, Valèrie;VOLLE, Stefan;WOLDT, Benjamin~ 33:EP ~31:22212705.2 ~32:12/12/2022

2025/05629 ~ Complete ~54:FORESTRY PEST AND DISEASE CONTROL BOX ~71:MOUNT TAISHAN FOREST FARM, TAI'AN CITY, NO. 554, WEST SECTION OF DONGYUE STREET, TAI’AN CITY, People's Republic of China ~72: MA, Shencheng;SUN, Yunwen;ZHANG, Zhaoxia~

2025/05639 ~ Complete ~54:COOLING AND POLISHING DEVICE FOR MECHANICAL PARTS PROCESSING ~71:XINYU UNIVERSITY, NO. 2666 SUNSHINE AVENUE, HIGH TECH ZONE, XINYU CITY, People's Republic of China ~72: FU Jianhong~

2025/05644 ~ Complete ~54:SOLID FORMS OF A SGC ACTIVATOR ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: ABELLA, Jocelyn M.;CHITRODA, Ashish Subhash;GAO, Joe Ju;HIRSH, David A.;KIM, Soojin;KOSNIK, Stephanie Cassandra;LI, Wenjie;LI, Zhibin;OFFERDAHL, Thomas James;YANG, Bing-Shiou~ 33:US ~31:63/431,330 ~32:09/12/2022

2025/05646 ~ Complete ~54:COMPACT SPRINKLER ~71:VICTAULIC COMPANY, 4901 Kesslersville Road, Easton, Pennsylvania, 18040-6714, United States of America ~72: CRAIG HANEY;MITCHELL BROWN;ROBERT BALLARD;STEPHEN HENRY PECHACEK~ 33:US ~31:63/438,870 ~32:13/01/2023;33:US ~31:63/543,526 ~32:11/10/2023

2025/05652 ~ Complete ~54:METHOD OF ROTATING A PIPELINE SECTION ~71:VICTAULIC COMPANY, 4901 Kesslersville Road, Easton, United States of America ~72: FINLAYSON, Eric Frank~ 33:US ~31:63/448,363 ~32:27/02/2023;33:US ~31:63/448,364 ~32:27/02/2023;33:US ~31:63/448,366 ~32:27/02/2023;33:US ~31:63/600,392 ~32:17/11/2023;33:US ~31:63/600,400 ~32:17/11/2023

2025/05623 ~ Provisional ~54:VACUUM BREAKER ~71:CRAFFORD, Ryno Adolf, 196 Van Riebeeck Avenue, South Africa ~72: GOOSEN, Cornelius Johannes~

2025/05625 ~ Provisional ~54:ROPOWER MODULAR ELECTROLYSIS HYDROGEN HOME ENERGY SYSTEM ~71:Valerie Lerato Pooe, 8 Siesta Flats, 3 Siesta Flats, Miederpark, South Africa ~72: Valerie Lerato Pooe~

2025/05633 ~ Complete ~54:PRODUCTION OF BACTERIAL CELLULOSE FROM COCONUT WATER AND WASTE MATERIALS ~71:Chithirai Pon Selvan Muthu Perumal, S/o. Mr. Muthu Perumal, 25 - 3A, Viricode Post, Marthandam, Kanyakumari, Tamil Nadu, 629165, India;Maryam Sahar Khan, D/o. Mr. Javeed Khan, 191/A, A Block, Devrajurs Layout, 11th cross, Davanagere, Karnataka, 577001, India;Pujan Dixeshkumar Barot, S/o. Mr. Dixeshkumar Jivanbhai Barot, Flat 1504, Lodha Luxuria, Majiwada, Thane - West, Thane, Mumbai, Maharashtra, 400601, India;Rahna K Rathnan, D/o. Mr. Dharma Rathnan, Kallupalam House, P. O. Perinchery, Thrissur, Kerala, 680306, India ~72: Chithirai Pon Selvan Muthu Perumal;Maryam Sahar Khan;Pujan Dixeshkumar Barot;Rahna K Rathnan~ 33:IN ~31:202521049947 ~32:23/05/2025

2025/05635 ~ Complete ~54:APPARATUS FOR DELIVERING AN ADDITIVE TO AN IRRIGATION SYSTEM ~71:KORREL KUNS (PTY) LTD, Kromellenboog Farm, District Utrecht, South Africa ~72: Nel, Theunis Jacobus~ 33:ZA ~31:2024/02573 ~32:03/04/2024

2025/05637 ~ Complete ~54:CABLE PERFORMANCE TESTING DEVICE AND ITS USAGE METHOD ~71:STATE GRID HENAN MARKETING SERVICE CENTER, NO.1 DIANCHANG ROAD, ZHONGYUAN DISTRICT, ZHENGZHOU CITY, People's Republic of China ~72: LI, Bingyang;SHI, Sansheng;WANG, Jun;WANG, Xianjun;XIA, Lei;ZHANG, Kaixiang;ZHANG, Shilin~ 33:CN ~31:2024111251204 ~32:15/08/2024

2025/05651 ~ Complete ~54:A UV-GERMICIDAL IRRADIATION SYSTEM FOR GERMICIDAL TREATMENT OF LIQUIDS ~71:Lyras DK ApS, Lyngvej 7, AALBORG 9000, DENMARK, Denmark ~72: KRISTENSEN, Mathias Kræmmergaard;MICHAELSEN, Thomas Yssing;VESTDAM, Kasper Dalager~ 33:EP ~31:23158392.3 ~32:24/02/2023

2025/05649 ~ Complete ~54:IMMOBILIZED ENZYME FIBER REACTOR AND OIL REFINING USING THE SAME ~71:Chemtor, LP, 1400 Blackjack St, LOCKHART 78644, TX, USA, United States of America ~72: KOHL, Scott D.;WOOD, Leslie~ 33:US ~31:63/479,682 ~32:12/01/2023;33:US ~31:63/499,063 ~32:28/04/2023

2025/05631 ~ Complete ~54:SOIL SAMPLER FOR COASTAL WETLAND BEACH ECOLOGICAL ENVIRONMENT MONITORING APPLICANT ~71:YANCHENG TEACHERS UNIVERSITY, NO. 29 XUEHAI ROAD, YANNAN HIGH-TECH ZONE, YANCHENG CITY, People's Republic of China ~72: ZHOU, Caigen;ZHU, Licai~ 33:CN ~31:2025106824874 ~32:23/05/2025

2025/05632 ~ Complete ~54:A COLLAPSIBLE CONTAINER ~71:Formosa Plastic (Pty) Limited, 55A Albert Wessels Drive, Riverside Industrial, Newcastle, KwaZulu Natal, SOUTH AFRICA, South Africa ~72: CHEN, Jeff~

2025/05634 ~ Complete ~54:SYSTEM FOR PRESENTING, VERIFYING AND GATHERING METRICS OF ADVERTISING CONTENT PLAYED ON SCREENS AND/OR THROUGH SPEAKERS OF COMMERCIAL ESTABLISHMENTS ~71:VITE OROZCO, José Luis, Homero 440, Mexico ~72: VITE OROZCO, José Luis~ 33:MX ~31:MX/a/2022/015861 ~32:09/12/2022

2025/05638 ~ Complete ~54:AUTOMATIC SWEAT WIPING DEVICE FOR TABLE TENNIS TABLE ~71:CHAOHU UNIVERSITY, NO. 1 BANTANG ROAD, CHAOHU ECONOMIC DEVELOPMENT ZONE,HEFEI CITY, People's Republic of China ~72: TANG, Zhaoping~

2025/05642 ~ Complete ~54:MAPPING DEVICE FOR GEOGRAPHIC INFORMATION COLLECTION AND MAPPING METHOD THEREFOR ~71:HUANGSHAN UNIVERSITY, NO.39 XIHAI ROAD, TUNXI DISTRICT, HUANGSHAN CITY, People's Republic of China ~72: HUANG, Guanjun;WANG, Qiwei;WANG, Tingting;XU, Jing~ 33:CN ~31:2025107008799 ~32:28/05/2025

2025/05645 ~ Complete ~54:ANTIPERSPIRANT AEROSOL COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANDREAS STAVROS POULOS;ELODIE AURORE SUZANNE DEGUERVILLE;OPHELIE MARIE-PIERRE CECILE TORRES;SOPHIE CAROL HUGHES~ 33:EP ~31:22215792.7 ~32:22/12/2022

2025/05648 ~ Complete ~54:AN AGITATOR ~71:Goodwin PLC, Ivy House Foundry, Hanley, STOKE-ON-TRENT ST1 3NR , STAFFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: AINSWORTH, David Mark;BENTLEY, Alan;COPE, Tony Michael;GOODWIN, Matthew Stanley~ 33:GB ~31:2302626.3 ~32:23/02/2023

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2025/05655 ~ Provisional ~54:SELF-STERILIZING SURGICAL ROBOTICS WITH LAYER-LOCKED DIELECTRIC UV SHIELDING, DATASET-MONOPOLIZED AI DOSING, AND SELF-DESTRUCT STERILITY VERIFICATION ~71:Pierre Johann van der Merwe, 42 Bergsig street, South Africa ~72: Pierre Johann van der Merwe~

2025/05657 ~ Provisional ~54:VAULT BANK ~71:Vivid Projects, 389 Paledi Village, South Africa ~72: Mahlane Sam Modipane~

2025/05664 ~ Complete ~54:NAC TRANSCRIPTION FACTOR FAMILY MOTIF OF ATRAPHAXIS BRACTEATA AND ITS APPLICATION ~71:WUWEI ACAD OF FORESTRY SCIENCES, 13th Floor, West side of Minqin Road, Wuwei City, Liangzhou District, People's Republic of China ~72: Chang Xuanxuan;Gao Shengchun;He Cai;Jin Na;Liu Wei;Ren Dequan;Ye Fang;Zhang Jun~ 33:CN ~31:2025107479195 ~32:06/06/2025

2025/05670 ~ Complete ~54:ANTI-PDL1 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, People's Republic of China ~72: ISSAFRAS, Hassan;JIANG, Wei-Dong;LIN, Pei-Hua;XU, Wenfeng;XUE, Jie~ 33:CN ~31:PCT/CN2022/143510 ~32:29/12/2022

2025/05685 ~ Complete ~54:4-AMINOPIPERIDINE COMPOUND, LIPID NANOPARTICLES THEREOF, AND PHARMACEUTICAL COMPOSITION CONTAINING SAME ~71:ASTELLAS PHARMA INC., 5-1, Nihonbashi-Honcho 2-chome, Chuo-ku, Tokyo, 1038411, Japan ~72: HITOSHI FUMIYAMA;MAKOTO INOUE;MASASHI IMANISHI;MIYU NOTE;SHUNSUKE MORIOKA;TAISUKE ENDO;TETSURO KATO;TOMOYUKI SAITO~ 33:JP ~31:2022-211994 ~32:28/12/2022;33:JP ~31:2023-041432 ~32:15/03/2023

2025/05693 ~ Complete ~54:GLYCOPROTEIN D VARIANTS AS VACCINE ADJUVANTS ~71:The Wistar Institute, 3601 Spruce Street, PHILADELPHIA 19104, PA, USA, United States of America;Virion Therapeutics, LLC, 7 Creek Bent Court, NEWARK 19711, DE, USA, United States of America ~72: CURRIE, Sue L.;ERTL, Hildegund CJ;LUBER, Andrew D.~ 33:US ~31:63/479,106 ~32:09/01/2023;33:US ~31:63/479,111 ~32:09/01/2023

2025/05661 ~ Complete ~54:METHOD FOR LOW-TEMPERATURE STORAGE OF SUGARCANE POLLEN ~71:INSTITUTE OF NANFAN & SEED INDUSTRY, GUANGDONG ACADEMY OF SCIENCES, NO. 10, SHILIUGANG ROAD, People's Republic of China ~72: CEHNG, Yinjie;CHANG, Hailong;LIANG, Qinggan;QIN, Yuanxia;WANG, Jianqiang;WANG, Qinnan;WU, Qingdan;ZHANG, Wei~

2025/05663 ~ Complete ~54:DEVICE FOR GRANULATING METAL POWDER BY FLOW PRESSING AND GRANULATION METHOD THEREOF ~71:Hefei Jiuzhou Times Metal Materials Technology Co., Ltd., Building No. 2, Baihua Industrial Community, Wushan Town, Changfeng County, Hefei City, Anhui Province, 231145, People's Republic of China ~72: Zheng Mei~

2025/05669 ~ Complete ~54:SSMYB114 GENE OF MYB TRANSCRIPTION FACTOR IN SPATHOLOBUS SUBERECTUS DUNN AND APPLICATION THEREOF ~71:GUANGXI BOTANICAL GARDEN OF MEDICINAL PLANTS, No. 189 Changgang Road, Xingning District, Nanning City, Colombia ~72: Fan, WEI;Guili, WEI;Shuangshuang, QIN;Ying, LI;Ying, LIANG;Yueying, XIE~

2025/05674 ~ Complete ~54:AN UNMANNED BOAT FOR WATER POLLUTION CONTROL ~71:Wuhu Institute of Technology, No. 201 Wenjin West Road, Yijiang District, Wuhu, Anhui, People's Republic of China ~72: CHA, Shuping;CHEN, Dan;CHEN, Yuting;HE, Yuqi;HUA, Fei;KUSUMA, DWINITA ASTY;TANG, Yingzhao;XING, Beibei;YAO, Ruoyun;YU, Xiaohang;ZHANG, Zhongliang~ 33:CN ~31:202510003009.6 ~32:02/01/2025

2025/05677 ~ Complete ~54:ANTI-PDL1 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: BARAL, Toya;CHANG, Jen-Kuan;ISSAFRAS, Hassan;JIANG, Wei-Dong;LIN, Pei-Hua;MUDA, Marco;XU, Wenfeng;XUE, Jie~ 33:CN ~31:PCT/CN2022/143518 ~32:29/12/2022

2025/05688 ~ Complete ~54:1-AMINO-4-PHENYLPHTHALAZINE DERIVATIVES USEFUL FOR THE TREATMENT OF NEURODEGENERATIVE DISEASES ~71:TAKEDA PHARMACEUTICAL COMPANY LIMITED, 1-1, Doshomachi 4-Chome Chuo-ku Osaka-shi, Osaka, 541-0045, Japan ~72: EDCON CHANG;FENG ZHOU;HUIKAI SUN;JASON W. BROWN;KRISTIN SCHLEICHER;MARK E ADAMS;MINGNAM TANG;ZHEN WANG~ 33:US ~31:63/441,438 ~32:26/01/2023;33:US ~31:63/589,626 ~32:11/10/2023

2025/05696 ~ Complete ~54:CANCER THERAPY WITH CAPIVASERTIB AND FULVESTRANT ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: BARRY, Simon;DE BRUIN, Elza;FOXLEY, Andrew;MCDONOUGH, Amy;SCHIAVON, Gaia~ 33:GB ~31:2218395.8 ~32:07/12/2022

2025/05701 ~ Complete ~54:METHODS OF PROTECTING AN ORGAN PRIOR TO SURGERY IN PATIENTS SUSCEPTIBLE TO POST-OPERATIVE COMPLICATIONS INCLUDING PHOTOSENSITIVITY ~71:RENIBUS THERAPEUTICS, INC., 181 Grand Avenue, United States of America ~72: KEYSER, Donald;RUIZ, Stacey;SINGH, Bhupinder~ 33:US ~31:63/478,975 ~32:08/01/2023;33:US ~31:63/499,974 ~32:03/05/2023;33:US ~31:63/595,699 ~32:02/11/2023;33:US ~31:63/601,700 ~32:21/11/2023;33:US ~31:63/602,216 ~32:22/11/2023

2025/05665 ~ Complete ~54:A SOLAR BIOMASS CARBONIZATION DEVICE BASED ON FRESNEL CONCENTRATION ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CAO, Siran;CHEN, Honglin;JIE, Moran;LI, Xudong;SONG, Yanping~ 33:CN ~31:202510194951.5 ~32:21/02/2025

2025/05675 ~ Complete ~54:CONVEYOR BELT AND STEEL WIRE ROPE TRACTION BELT CONVEYOR COMPRISING SAME ~71:LIBO HEAVY INDUSTRIES SCIENCE & TECHNOLOGY CO., LTD., No. 51 Yingsheng Road, Taishan District, Taian, Shandong, 271000, People's Republic of China;LIBO INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE (SHANDONG) CO., LTD., No. 3777 Yitianmen Street, High Tech Industrial Development Zone, Taian, Shandong, 271000, People's Republic of China ~72: CHANG, Xin;LIU, Jiankun;LIU, Jinshan;WANG, Zhengtao;ZHANG, Yuan;ZHOU, Manshan~ 33:CN ~31:202211556174.7 ~32:06/12/2022

2025/05678 ~ Complete ~54:CONTINUOUS CASTING EQUIPMENT ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Nicolas PIRLOT;Paul NAVEAU~ 33:IB ~31:PCT/IB2022/062382 ~32:16/12/2022

2025/05684 ~ Complete ~54:ADHESIVE COMPOSITION AND/OR METHOD OF REMOVING ELASTOMER LINER FROM METAL SUBSTRATE ~71:VULCO S.A., San Jose N° 815, Chile ~72: ARELLANO, Jose;BERTRAN, Mario;PEREZ, Cristian;PINEDA, Daniel~ 33:GB ~31:2300949.1 ~32:23/01/2023

2025/05690 ~ Complete ~54:COVER, ELASTIC CUSHION AND FURNITURE ~71:New-Tec Integration (Xiamen) Co., Ltd., No. 88, Zhennan 3rd Road, Tong'an District, XIAMEN 361100, FUJIAN, CHINA (P.R.C.), People's Republic of China ~72: LENG, Luhao~ 33:CN ~31:202310010316.8 ~32:04/01/2023

2025/05702 ~ Complete ~54:PHARMACEUTICAL PREPARATION COMPRISING ANTI-TIGIT ANTIBODY ~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: FANG, Yuan;HAN, Dongmei;PU, Tianning~ 33:CN ~31:202211713441.7 ~32:27/12/2022

2025/05656 ~ Provisional ~54:SYSTEM AND METHOD FOR OPTIMIZED LOAD-MATCHING, DYNAMIC PRICING, AND FAULT-TOLERANT DISPATCHING IN REAL-TIME FURNITURE DELIVERY NETWORKS ~71:Fihlang Tsoananyana, 14th Road, South Africa ~72: Fihlang Tsoananyana~

2025/05662 ~ Complete ~54:METAL POWDER FLOW GRANULATION DEVICE CAPABLE OF PREVENTING POWDER LEAKAGE AND DISPERSION ~71:Hefei Jiuzhou Times Metal Materials Technology Co., Ltd., Building No. 2, Baihua Industrial Community, Wushan Town, Changfeng County, Hefei City, Anhui Province, 231145, People's Republic of China ~72: Zheng Mei~

2025/05668 ~ Complete ~54:A COT ~71:KIT COT (PTY) LTD., 7 Villiers Road, Walmer, PORT ELIZABETH 6070, Eastern Cape, SOUTH AFRICA, South Africa ~72: MACKENZIE, Alison Ann;MACKENZIE, Andrew Ronald~ 33:ZA ~31:2024/02633 ~32:05/04/2024

2025/05672 ~ Complete ~54:ANTI-PDL1/VEGF 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, People's Republic of China ~72: CHEN, Yu-Syaun;ISSAFRAS, Hassan;JIANG, Wei-Dong;LIN, Pei-Hua;SHAN, Yongqiang;SONG, Ge;XIONG, Shengen;XU, Wenfeng;XUE, Jie~ 33:CN ~31:PCT/CN2022/143506 ~32:29/12/2022

2025/05700 ~ Complete ~54:AN ANTIMICROBIAL GEL COMPOSITION ~71:BACTIGUARD AB, P.O. Box 15, Sweden ~72: KOH, Chee Keong;KRISHNEN, Ranjeni;SUBRAMANIAM, Sathish Komar;SÖDERVALL, Billy~ 33:SE ~31:2350050-7 ~32:20/01/2023

2025/05659 ~ Provisional ~54:INCUBATOR SYSTEM FOR CLIMATE-RESILIENT HATCHING AND REMOTE ENVIRONMENTAL CONTROL. ~71:CRC Hatchery and Poultry, Plot 51, Mooilande AH, South Africa ~72: Riaan Esterhuizen;Tumelo Madimetja Mothoa~

2025/05666 ~ Complete ~54:SOCIAL MEDIA-BASED TELECINE CULTURE DISSEMINATION STRATEGY ~71:Ningbo University of Finance and Economics, No. 899, Xueyuan Road, Haishu Dist., Ningbo, Zhejiang, People's Republic of China ~72: Lin Zheng~

2025/05676 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING SPINAL MUSCULAR ATROPHY ~71:NMD PHARMA A/S, Palle Juul-Jensens Boulevard 82, Denmark ~72: BASTIAS, Jorge Armando Quiroz;BOLD, Jane Mary;CHIN, Eva Rose;GRØNNEBÆK, Thomas Skjærlund;PEDERSEN, Thomas Holm;SKOV, Martin Brandhøj~ 33:US ~31:63/488,055 ~32:02/03/2023;33:EP ~31:23162356.2 ~32:16/03/2023;33:EP ~31:23208554.8 ~32:08/11/2023

2025/05683 ~ Complete ~54:ANTI-CD47 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: BARAL, Toya;XU, Wenfeng~ 33:CN ~31:PCT/CN2022/143504 ~32:29/12/2022

2025/05686 ~ Complete ~54:SCREW STRUCTURE ~71:HARDLOCK INDUSTRY CO., LTD., 6-24, Kawamata 1-chome, Higashiosaka-shi, Osaka, 5770063, Japan ~72: KATSUHIKO WAKABAYASHI~ 33:JP ~31:2022-212878 ~32:31/12/2022

2025/05692 ~ Complete ~54:TROP2 TARGETING TRISPECIFIC PROTEIN FOR TREATMENT OF CANCER ~71:Harpoon Therapeutics, Inc., 611 Gateway Blvd., Suite 400, SOUTH SAN FRANCISCO 94080, CA, USA, United States of America ~72: AUSTIN, Richard J.;LIN, Shuoyen Jack;WESCHE, Holger;WRIGHT, Kevin J.~ 33:US ~31:63/478,640 ~32:05/01/2023;33:US ~31:63/496,159 ~32:14/04/2023

2025/05697 ~ Complete ~54:SOLID STATE FORMS OF MNK INHIBITORS ~71:4E Therapeutics, Inc., 3800 N. Lamar Blvd, Suite 200, AUSTIN 78756, TX, USA, United States of America;Board of Regents, The University of Texas System, 210 West 7th St., AUSTIN 78701, TX, USA, United States of America ~72: CASTELHANO, Arlindo Lucas;PRICE, Theodore J.;RIXSON, Daniel;SAHN, James J.;SMITH, Garry Robert;SULEIMAN, Osama~ 33:US ~31:63/478,409 ~32:04/01/2023

2025/05658 ~ Provisional ~54:TREATMENT OF WATER ~71:ROC Water Technologies (Pty) Ltd, 28 Keramiek Street, Clubview, OLIFANTSFONTEIN, Pretoria 1666, Gauteng, SOUTH AFRICA, South Africa;UNIVERSITY OF SOUTH AFRICA, Muckleneuk Campus, Theo van Wyk Building, PRETORIA 0001, SOUTH AFRICA, South Africa ~72: MAREE, Johannes Philippus~

2025/05660 ~ Provisional ~54:CITD MULTI-COMPARTMENT CHEF BACKPACK WITH DETACHABLE KNIFE ROLL AND HYGENIC SHOE STORAGE ~71:Bonga Ntunta, 104 Kanonkop, Conradie Park, Pinelands, South Africa;Nathene Samuels, 65 boog street, Brackenfell, South Africa ~72: Bonga Ntunta;Nathene Samuels~

2025/05671 ~ Complete ~54:TRANSFERRIN RECEPTOR BINDING PROTEINS ~71:SANOFI, 46 avenue de la Grande Armée, France ~72: CAMERON, Beatrice;CAPDEVILA, Cécile;DABDOUBI, Tarik;DO, Tuan-Minh;DUPERRIER, Blandine;GAGNAIRE, Marie;GEORGE, Kelly;LESUISSE, Dominique;RAPISARDA, Chiara;SOUBRIER, Fabienne;VAN DER FLIER, Arjan~ 33:EP ~31:22306784.4 ~32:05/12/2022

2025/05680 ~ Complete ~54:CONTINUOUS CASTING EQUIPMENT ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Nicolas PIRLOT;Paul NAVEAU~ 33:IB ~31:PCT/IB2022/062381 ~32:16/12/2022

2025/05681 ~ Complete ~54:CONTINUOUS CASTING EQUIPMENT ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Nicolas PIRLOT;Paul NAVEAU~ 33:IB ~31:PCT/IB2023/050839 ~32:31/01/2023

2025/05689 ~ Complete ~54:EXPANSION OF HUMAN CELLS AND TISSUES FOR THERAPEUTIC PURPOSES AND METHODS OF USE ~71:HOUSEY PHARMACEUTICAL RESEARCH LABORATORIES, L.L.C., 16800 West Twelve Mile Road, Suite 201, Southfield, Michigan, 48076, United States of America ~72: GERARD M HOUSEY;MONICA E BALASH;OWEN M ZAK~ 33:US ~31:63/436,546 ~32:31/12/2022

2025/05694 ~ Complete ~54:BURNER WITH REMOVABLE SHELL FOR USE IN A MELTER ~71:Owens-Brockway Glass Container Inc., One Michael Owens Way, PERRYSBURG 43551, OH, USA, United States of America ~72: FLEETWOOD, Russell;RASHLEY, Shane~ 33:US ~31:18/098,098 ~32:17/01/2023

2025/05698 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING HSD-1-MEDIATED DISORDERS ~71:Sparrow Pharmaceuticals, Inc., 1050 SW 6th Avenue, Suite 1100, PORTLAND 97204, OREGON, USA, United States of America ~72: EVARTS, JR., Jerry B.~ 33:US ~31:63/478,792 ~32:06/01/2023

2025/05673 ~ Complete ~54:COMPOUND - DIAGNOSTIC MARKER FOR BILIARY TRACT CANCER, METHOD FOR DETECTING ENZYMATIC ACTIVITY, METHOD FOR DIAGNOSIS OF BILIARY TRACT CANCER, KIT COMPRISING THE COMPOUND, USES OF THE COMPOUND AND METHOD FOR THE TREATMENT OF BILIARY TRACT CANCER ~71:URTESTE S.A., Ul. Starodworska 1, Poland ~72: GRUBA, Natalia;LESNER, Adam~ 33:PL ~31:P.443432 ~32:09/01/2023

2025/05682 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING CHARCOT–MARIE–TOOTH DISEASE ~71:NMD PHARMA A/S, Palle Juul-Jensens Boulevard 82, Denmark ~72: BASTIAS, Jorge Armando Quiroz;GRØNNEBÆK, Thomas Skjærlund;HUTCHISON, John Blundell;NIELSEN, Ole Bækgaard;PEDERSEN, Thomas Holm;SKOV, Martin Brandhøj~ 33:US ~31:63/488,058 ~32:02/03/2023;33:EP ~31:23164242.2 ~32:27/03/2023;33:EP ~31:23208561.3 ~32:08/11/2023

2025/05695 ~ Complete ~54:SURFACE BRACHYTHERAPY DEVICE, APPLICATOR, AND METHODS THEREFOR ~71:Colorado School of Mines, 1500 Illinois Street, GOLDEN 80401-1887, CO, USA, United States of America;The Regents of the University of Colorado, a Body Corporate, 1800 Grant Street, 8th Floor, DENVER 80203, CO, USA, United States of America ~72: DIOT, Quentin;SARAZIN, Frédéric;WESTERLY, David;ZIMMERMAN, Jeramy~ 33:US ~31:63/477,321 ~32:27/12/2022

2025/05699 ~ Complete ~54:COMPUTER IMPLEMENTED METHOD FOR SELECTING FUNCTIONAL BIOMARKERS TO IDENTIFY A TARGET CONDITION IN A SUBJECT ~71:NEWMANBRAIN, S.L., av. Universidad, s/n - Edif. Quorum III, Spain ~72: BELMONTE MARTINEZ, Carlos;IBAÑEZ BALLESTEROS, Joaquin;MOLINA RODRIGUEZ, Sergio~ 33:EP ~31:22383301.3 ~32:28/12/2022

2025/05667 ~ Complete ~54:IN-SITU ECOLOGICAL TREATMENT METHOD FOR RECYCLING TAIL WATER FROM SHRIMP FARMING AND APPLICATION THEREOF ~71:LINZHI AGRICULTURAL RECLAMATION GAMA AGRICULTURE CO.LTD, Bujiu Township, Bayi District, Linzhi City, Xizang Autonomous Region, 860100, People's Republic of China ~72: CAI, Wang;CI, Wangzhandui;DENG, Yuewen;LI, Haiyan;LUO, Mingfei;MI, Madunzhu;NI, Mawangdui;SUN, Caiyun;ZHANG, Minghui;ZHU, Chunhua~ 33:CN ~31:202510774828.0 ~32:06/06/2025

2025/05679 ~ Complete ~54:CONTINUOUS CASTING EQUIPMENT ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Nicolas PIRLOT;Paul NAVEAU~ 33:IB ~31:PCT/IB2022/062379 ~32:16/12/2022

2025/05687 ~ Complete ~54:MEGAKARYOCYTE DERIVATIVES FOR TREATMENT OF DRY EYE DISEASES ~71:STELLULAR BIO, INC., 65 Grove Street, Suite 303, Watertown, Massachusetts, 02472, United States of America ~72: BRADFORD DYKSTRA;RYAN CARPENTER;SOPHIA PETE;SUNITA PATEL-HETT~ 33:US ~31:63/437,578 ~32:06/01/2023

2025/05691 ~ Complete ~54:FUSED CYCLIC COMPOUNDS AND USE THEREOF ~71:Jacobio Pharmaceuticals Co., Ltd., Building 8, No. 105 Jinghai 3rd Road, Business Development Area, Tongzhou District, BEIJING 100176, CHINA (P.R.C.), People's Republic of China ~72: GAO, Panliang;HAN, Huifeng;LI, Runze;LIU, Xiaoyu;LONG, Wei;MA, Cunbo;WANG, Peng;WANG, Yanping;YANG, Hongwei;ZHANG, Hao~ 33:IB ~31:2022/137156 ~32:07/12/2022;33:IB ~31:2023/071719 ~32:10/01/2023;33:IB ~31:2023/084883 ~32:29/03/2023;33:IB ~31:2023/088433 ~32:14/04/2023;33:IB ~31:2023/101375 ~32:20/06/2023;33:IB ~31:2023/116529 ~32:01/09/2023;33:IB ~31:2023/119147 ~32:15/09/2023;33:IB ~31:2023/124703 ~32:16/10/2023;33:IB ~31:2023/129225 ~32:02/11/2023;33:IB ~31:2023/131834 ~32:15/11/2023;33:IB ~31:2023/135192 ~32:29/11/2023

. - APPLIED ON 2025/07/04 -

2025/05705 ~ Provisional ~54:FIFTH WHEEL LOCK ~71:UniLoq (Pty) Ltd, 45 Eva Road, Fairleads,, South Africa ~72: Brandon Alexander;Damion Vorster;Gerald Kuisis~

2025/05713 ~ Complete ~54:DEVICE FOR ACOUSTIC SURVEY OF SOIL PROFILE ~71:China University of Geosciences, No. 388 Lumo Road, Hongshan District, Hubei Province, 430074, Wuhan City, People's Republic of China;Langfang integrated Natural Resources Survey Center, China Geological Survey, No. 93 Guangyang Road, Guangyang District, Hebei Province, 065000, Langfang City, People's Republic of China ~72: GAO,Xubo;LI,Jiangtao;LIU,Weitao;MA,Yongjun;SHEN,Yangchun;SU,Yuan;ZHOU,Fangyuan~ 33:CN ~31:202411796842.2 ~32:09/12/2024

2025/05715 ~ Complete ~54:SEWAGE PURIFICATION AND FILTRATION DEVICE FOR PREVENTION AND CONTROL OF WATER ENVIRONMENT POLLUTION ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: DONG Wenchao;JIANG Zhongfeng;LI Xiaohui;LIANG Feng;LIU Kai;LIU Tai;WANG Yong;WANG Zhongyi~

2025/05721 ~ Complete ~54:COLD-ROLLED HIGH-STRENGTH ENAMELING STEEL AND MANUFACTURING METHOD THEREFOR ~71:BAOSHAN IRON & STEEL CO., LTD., 885 FUJIN ROAD, BAOSHAN DISTRICT, SHANGHAI, 201900, People's Republic of China ~72: GUO, Liangliang;JIANG, Xiaoming;QU, Lineng;SUN, Quanshe;WANG, Jintao;WANG, Junkai;WANG, Mu;WEI, Jiao~ 33:CN ~31:202310032928.7 ~32:10/01/2023

2025/05708 ~ Complete ~54:RAPID GENOTYPING DEVICE FOR PEACH GERMPLASM RESOURCE MOLECULAR MARKERS ~71:Shandong Agriculture And Engineering University, 866 Nongganyuan Road, Licheng District, Jinan City, Shandong Province, People's Republic of China;Shandong Feicheng Modern Agriculture Development Co., ltd., Convention and Exhibition Center, Xincheng Sub-district Office, Feicheng City, Tai'an City, Shandong Province, People's Republic of China;Shandong Feicheng Modern Fruit Industry Co., ltd., 201, Convention and Exhibition Center, Xincheng Sub-district Office, Feicheng City, Tai'an City, Shandong Province, People's Republic of China;Xinghui (Shandong) Agricultural Development Company Limited, Dongan Village, Dongli Town, Yiyuan County, Zibo City, Shandong Province, People's Republic of China ~72: DU Xingwei;HAN Xu;LIU Jin;SUN Xiaoming;SUN Yuyong;YANG Yaling;ZHENG Yuanqin;ZOU Hui~

2025/05709 ~ Complete ~54:METHOD FOR MONITORING GROSS PRIMARY PRODUCTIVITY OF VEGETATION BASED ON DOWNSCALING AND MULTI-SOURCE REMOTE SENSING DATA ~71:CHENGDU UNIVERSITY OF TECHNOLOGY, No.1 Erxianqiao East Third Road, Chenghua District, Chengdu City, Sichuan Province, 610059, People's Republic of China;Huaneng Xizang the Yarlung Zangbo River Hydropower Development Investment Co., Ltd, 12 Beijing West Road, Chengguan District, Lhasa, Xizang Autonomous Region, 850000, People's Republic of China;Tianfu Yongxing Laboratory, Building 12, Tianfu Haichuang Park, No. 619 Jicui Street, Tianfu New Area, Chengdu, Sichuan Province, 610213, People's Republic of China ~72: CHEN Guo;LEI Junjie;LI Gaofeng;LI Jingji;LIU Feng;OUYANG Haijun;TANG Xiaolu;ZHANG Yuan~

2025/05712 ~ Complete ~54:HIGH-STRENGTH AND HIGH-WEATHERING STEEL AND MANUFACTURING METHOD THEREOF ~71:Wuhan Polytechnic University, No. 68, Xuefu South Road, Evergreen Garden, Wuhan City, Hubei Province, 430023, People's Republic of China ~72: FAN, Tiqiang;LI, Jialiang;LU, Bin;MA, Yuxi;REN, Chijin;WU, Qiang;XU, Hao;ZHANG, Jiaqi;ZHANG, Ke~

2025/05717 ~ Complete ~54:IN VITRO FERTILIZATION SOLUTION CAPABLE OF IMPROVING FERTILIZATION ABILITY OF BOVINE SPERMS AND PREPARATION METHOD THEREOF ~71:INSTITUTE OF ANIMAL SCIENCE AND VETERINARY MEDICINE, SHANDONG ACADEMY OF AGRICULTURAL SCIENCES, 23788 Gong Ye Bei Road, Jinan, People's Republic of China;SHANDONG OX LIVESTOCK BREEDING CO., LTD., 22151 Gong Ye Bei Road, Jinan, People's Republic of China ~72: GAO, Yundong;HAN, Yusong;LIU, Weijia;MA, Qingtao;WANG, Lingling;XIAO, Yao;ZHANG, Yan~ 33:CN ~31:2024111448091 ~32:20/08/2024

2025/05719 ~ Complete ~54:GEL LOADED WITH ALPHA-EMITTER RADIONUCLIDES ~71:ALPHA TAU MEDICAL LTD., 5 Kiryat Hamada Street, Jerusalem, Israel ~72: ARAZI, Lior;DOMANKEVICH, Vered;KELSON, Itzhak;SCHMIDT, Michael;SEGAL, Ronen~ 33:US ~31:63/480,016 ~32:16/01/2023;33:US ~31:63/450,971 ~32:09/03/2023

2025/05725 ~ Complete ~54:SYSTEM FOR HEAP IRRIGATION FOR PROGRESSIVE REFRACTORY ORE TRANSFORMATION IN COPPER LEACHING ~71:Ceibo Inc., c/o Ceibo, Inc., Eliodoro Yañez 2990, Edificio B, Piso 7, Comuna de Providencia, SANTIAGO 7510277, CHILE, Chile ~72: CARTAGENA FAGERSTRÖM, Alejandro Horacio;GUAJARDO CONTRERAS, Nicole Stephanie;URREJOLA SANTA MARÍA, Catalina~ 33:US ~31:63/521,010 ~32:14/06/2023

2025/05729 ~ Complete ~54:A SYSTEM AND METHOD FOR PROCESSING AMPOULES ~71:Intervet International B.V., Wim de Körverstraat 35, BOXMEER 5831 AN, THE NETHERLANDS, Netherlands ~72: CASAGRANDE, Henrique Augusto;COLLINS, Michael Alexander;CORREA BARBOSA, Taylor Marcelo;SWERN, Michael Stephen~ 33:US ~31:63/441,636 ~32:27/01/2023

2025/05703 ~ Provisional ~54:STEPSURE ~71:Patric, 46 Greenfield, South Africa ~72: Patric Sandiso Sibande~

2025/05711 ~ Complete ~54:VIRTUAL SAFE ~71:SIKHOSANA, Mzameni Richard, 36 Honeysucker Avenue, Yellowwood Park, South Africa ~72: SIKHOSANA, Mzameni Richard~ 33:ZA ~31:2024/07354 ~32:27/09/2024

2025/05714 ~ Complete ~54:PHYTASE VARIANTS AND POLYNUCLEOTIDES ENCODING SAME ~71:Novozymes A/S, Krogshoejvej 36, BAGSVAERD 2880, DENMARK, Denmark ~72: SANTIGOSA, Ester;SKOV, Lars Kobberøe;SORBARA, Jose-Otavio;SÉON, Aurélia Anne Catherine Charlotte;VIND, Jesper;WALK, Carrie Louise;ZHAI, Hengxiao;ZHANG, Qian~ 33:EP ~31:20190917.3 ~32:13/08/2020;33:EP ~31:20201328.0 ~32:12/10/2020;33:IB ~31:2021/081613 ~32:18/03/2021;33:EP ~31:21172706.0 ~32:07/05/2021

2025/05723 ~ Complete ~54:BATTERY CHARGING COMPLEX FOR ELECTRIC VEHICLE FLEET ~71:DRIVE ELECTRO SA, Avenue du Theatre 1, 1005, Luasanne, Switzerland ~72: IVANOV, Sergey~

2025/05722 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR PREVENTING AND/OR TREATING AIDS DAMP-HEAT SYNDROME AND USE THEREOF ~71:HENAN UNIVERSITY OF CHINESE MEDICINE, No.156 Jinshui East Road, Zhengdong New District, Zhengzhou, Henan, 450000, People's Republic of China ~72: WANG, Juan;XU, Liran;ZHANG, Haiyan;ZHANG, Yuanxi~ 33:CN ~31:202311763475.1 ~32:20/12/2023

2025/05724 ~ Complete ~54:CATALYTIC METHOD FOR PROGRESSIVE ORE TRANSFORMATION IN COPPER LEACHING ~71:Ceibo Inc., c/o Ceibo, Inc., Eliodoro Yañez 2990, Edificio B, Piso 7, Comuna de Providencia, SANTIAGO 7510277, CHILE, Chile ~72: BÓRQUEZ MARTÍNEZ, Fernando Matías;CARTAGENA FAGERSTRÖM, Alejandro Horacio;GUAJARDO CONTRERAS, Nicole Stephanie;ROMÁN ESPINOZA, Anselmo Enrique;URREJOLA SANTA MARÍA, Catalina~ 33:US ~31:63/521,010 ~32:14/06/2023

2025/05726 ~ Complete ~54:COSMETIC EMULSION WITH DIISOPROPYL ADIPATE AND POLYGLYCERYLESTER ~71:Beiersdorf AG, Beiersdorfstrasse 1-9, HAMBURG 22529, GERMANY, Germany ~72: CAI, Mengting;LIU, Jianfei (Jennifer);RATSCHOW, Cecile;XU, Shuqin;ZHANG, Meiling (Mason)~ 33:CN ~31:PCT/CN2023/070828 ~32:06/01/2023

2025/05734 ~ Complete ~54:COUPLING PERMITTING LONGITUDINAL AXIS ROTATION OF PIPE ELEMENTS ~71:VICTAULIC COMPANY, 4901 Kesslersville Road, Easton, United States of America ~72: FINLAYSON, Eric Frank~ 33:US ~31:63/448,363 ~32:27/02/2023;33:US ~31:63/448,364 ~32:27/02/2023;33:US ~31:63/448,366 ~32:27/02/2023;33:US ~31:63/600,392 ~32:17/11/2023;33:US ~31:63/600,400 ~32:17/11/2023

2025/05704 ~ Provisional ~54:SLURRY PUMP WARNING SYSTEM ~71:BATTLEMAX (PTY) LTD, 592 Barolong Street, Mooiplaats 355-Jr, South Africa ~72: BUITENDAG, Marthinus Jacobus;HERFS Cornelius;PIENAAR Hannes~

2025/05706 ~ Complete ~54:CARBIDE SUPPORTED CATALYSTS ~71:University of the Western Cape, Robert Sobukwe Road, South Africa ~72: Franschke SOUDENS;Prof. Sivakumar PASUPATHI;Prof. Vladimir Mikhailovich LINKOV;Simone KARELS~ 33:ZA ~31:2024/05472 ~32:15/07/2024

2025/05710 ~ Complete ~54:TRUSTWORTHINESS OF A VIDEO DATA STREAM ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., HANSASTRAßE 27C, 80686 MÜNCHEN, GERMANY, Germany ~72: GRÜNEBERG, Karsten;HELLGE, Cornelius;HINZ, Tobias;MARPE, Detlev;PFAFF, Jonathan;SCHIERL, Thomas;SCHWARZ, Heiko;SKUPIN, Robert;SÁNCHEZ DE LA FUENTE, Yago;SÜHRING, Karsten;WIEGAND, Thomas~ 33:EP ~31:24186914.8 ~32:05/07/2024

2025/05720 ~ Complete ~54:PATCHOULI ALCOHOL, PATCHOULI ALCOHOL COMPOUND ANTIMALARIAL COMPOSITION, AND USE IN PREPARATION OF ANTI-PLASMODIAL DRUG ~71:SHANDONG ACADEMY OF CHINESE MEDICINE, No. 7, Yanzishan West Road, Jinan City, People's Republic of China ~72: Bianli, WANG;Boyang, WANG;Huimin, ZHANG;Jingzhi, YU;Ping, WANG~ 33:CN ~31:202311048156.2 ~32:21/08/2023

2025/05727 ~ Complete ~54:STORAGE BOX AND ELASTIC CUSHION DEVICE ~71:New-Tec Integration (Xiamen) Co., Ltd., No. 88 Zhennan 3rd Road, Tong'an District, XIAMEN 361100, FUJIAN, CHINA (P.R.C.), People's Republic of China ~72: LENG, Luhao~ 33:CN ~31:202310014301.9 ~32:05/01/2023;33:CN ~31:202310534914.5 ~32:12/05/2023;33:CN ~31:2023109998239 ~32:09/08/2023

2025/05728 ~ Complete ~54:NOVEL LINKERS FOR SUSTAINED DELIVERY OF THERAPEUTICS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: CORTEZ, Guillermo;LOPES, Daniel Christopher;MUPPIDI, Avinash;STOKELL, David John;WANG, Yan~ 33:US ~31:63/480,113 ~32:17/01/2023

2025/05732 ~ Complete ~54:GENOME EDITING COMPOSITIONS AND METHODS OF USE ~71:Prime Medicine, Inc., 21 Erie Street, CAMBRIDGE 02139, MA, USA, United States of America ~72: ANZALONE, Andrew V.;BLOCH, Noah B.;PODRACKY, Christopher J.;POMEROY, Emily~ 33:US ~31:63/478,654 ~32:05/01/2023;33:US ~31:63/603,479 ~32:28/11/2023

2025/05733 ~ Complete ~54:WETTING SYSTEM FOR AGROCHEMICAL SUSPENSION CONCENTRATES COMPOSITIONS ~71:Adama Makhteshim Ltd., P.O. Box 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: DAHAN, Yogev;STERN, Nadya~ 33:US ~31:63/437,126 ~32:05/01/2023

2025/05735 ~ Complete ~54:SALT-TYPE GLP-1 RECEPTOR AGONIST, CRYSTAL FORM THEREOF, PREPARATION METHOD THEREFOR, PHARMACEUTICAL COMPOSITION THEREOF, AND USE THEREOF ~71:HANGZHOU ZHONGMEIHUADONG PHARMACEUTICAL CO., LTD., No. 866, Moganshan Road, GongShu District, Hangzhou, Zhejiang, 310011, People's Republic of China ~72: DONGZHOU LIU;FANG TAN;HAO PAN;MIN HAN;WENQIANG ZHAI~ 33:CN ~31:202211600156.4 ~32:13/12/2022

2025/05739 ~ Provisional ~54:NGIFUNA UMUNTU WAMI ABUYE (I WANT MY PERSON BACK) ~71:KHOLOFELO MARUPUTLA JUNIOR MASHATOLE, FLAT NO.375, LITTLE MANHATTAN, South Africa ~72: KHOLOFELO MARUPUTLA JUNIOR MASHATOLE ~

2025/05707 ~ Complete ~54:BINARY METAL OXIDE CATALYSTS ~71:University of the Western Cape, Robert Sobukwe Road, South Africa ~72: Franschke SOUDENS;Prof Vladimir Mikhailovich LINKOV;Prof. Sivakumar PASUPATHI;Simone KARELS~ 33:ZA ~31:2024/06026 ~32:06/08/2024

2025/05716 ~ Complete ~54:MOTORIZED RAILWAY SAFETY CART AND DEPLOYMENT SYSTEM THEREOF ~71:KRONOS AERIAL PHOTOGRAPHY LTD, 37 Amal St., Petach Tikva, 4951337, Israel ~72: GIL NACHMANY;MACHLUF ELIYAHU MALKA~ 33:US ~31:63/667,931 ~32:05/07/2024

2025/05718 ~ Complete ~54:PHENYLPIPERIDINE DERIVATIVES AS INHIBITORS OF GLUTAMINYL-PEPTIDE CYCLOTRANSFERASE AND GLUTAMINYL-PEPTIDE CYCLOTRANSFERASE LIKE PROTEIN ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: BINDER, Florian Paul Christian;DAHMANN, Georg;HANDSCHUH, Sandra Ruth;REINDL, Sophia Astrid;WILLWACHER, Jens;YANG HAMILTON, James Young Soo~ 33:EP ~31:22216126.7 ~32:22/12/2022

2025/05730 ~ Complete ~54:$CD4^+$ AND $CD8^+$ SINGLE POSITIVE T CELLS AND COMPOSITIONS AND METHODS FOR GENERATING THE SAME ~71:Clade Therapeutics, Inc., 25N. 38th Street, 11th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: HEINZE, Dar Mikael;WELSTEAD, Gordon Grant~ 33:US ~31:63/483,814 ~32:08/02/2023

2025/05731 ~ Complete ~54:POLQ INHIBITORS ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: BARLAAM , Bernard;BODNARCHUK, Michael;FERRER-CABRERA, Sofia;GOPALSAMY,

Ariamala;JONES, Helen Elizabeth;SHIELDS, Jason;TURNER, Oliver;WINTER-HOLT, Jon James;WRIGLEY, Gail~ 33:US ~31:63/386,263 ~32:06/12/2022;33:US ~31:63/497,847 ~32:24/04/2023

2025/05736 ~ Complete ~54:TRICYCLIC AZEPINONE DERIVATIVES AS SYSTEM XC INHIBITORS ~71:UCB BIOPHARMA SRL, 60, Allée de la Recherche, 1070, Brussels, Belgium ~72: BAPTISTE MANTEAU;DOMINIQUE LOUIS L SWINNEN;JEAN KEYAERTS;LAURENT PROVINS;MARIE ADOLPHINE C LEDECQ;PIERRE BURSSENS~ 33:EP ~31:23154379.4 ~32:01/02/2023

2025/05737 ~ Complete ~54:A METHOD FOR MATERIAL LOSS DETECTION, IN PARTICULAR FOR WEAR DETECTION, AN ARRANGEMENT FOR PERFORMING THIS METHOD ~71:RVMAGNETICS, A.S., Němcovej 30 042 18, Slovakia ~72: VARGA, Rastislav~ 33:SK ~31:PP 50006-2023 ~32:26/01/2023

2025/05738 ~ Provisional ~54:KNOW YOUR PERSON ~71:KHOLOFELO MARUPUTLA JUNIOR MASHATOLE, FLAT NO.375, LITTLE MANHATTAN, South Africa ~72: KHOLOFELO MARUPUTLA JUNIOR MASHATOLE ~

2025/05740 ~ Provisional ~54:POULTECH TRACKABLE MEMORY WITH A BUZZER,WITH BLUETOOTH THAT IS WATERPROOF,HAS ON & OFF ENCRYPTION ON THE DEVICE AND APP ~71:POULETHER LAETECIA NEO BUCIBA, 4696 MODIKO STREET BOCHABELA LOCATION, South Africa ~72: POULETHER LAETECIA NEO BUCIBA~

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2025/05747 ~ Provisional ~54:AI VERIFICATION ~71:Gerhardus Phillipus van der Merwe, 314 Scheiding Street, Prestige Park, South Africa ~72: Gerhardus Phillipus van der Merwe~

2025/05759 ~ Complete ~54:LOW-HEAT HIGH-STRENGTH CEMENTITIOUS MATERIAL, PREPARATION METHOD, AND APPLICATION THEREOF ~71:CHINA BUILDING MATERIALS ACADEMY CO., LTD., No. 1, Guanzhuangdongli, Chaoyang District, Beijing, People's Republic of China ~72: Chunxia Jin;Chunyong Gao;Guizhi Diao;Hongxia Wang;Jing Wang;Junhua Guo;Minglin Jia;Pengyu Cai;Xiao Cheng;Yun Liu;Zhongcheng Ma~ 33:CN ~31:2025103140242 ~32:17/03/2025

2025/05771 ~ Complete ~54:A SPACE OPTIMIZED ULTRA VIOLET GERMICIDAL IRRADIATION SYSTEM ~71:Lyras DK ApS, Lyngvej 7, AALBORG 9000, DENMARK, Denmark ~72: HØYGAARD-JØRGENSEN, Palle;KRISTENSEN, Mathias Kræmmergaard;MICHAELSEN, Thomas Yssing;VESTDAM, Kasper Dalager~ 33:EP ~31:23158397.2 ~32:24/02/2023

2025/05778 ~ Complete ~54:ANTIBODY SPECIFICALLY BINDING TO RSV ~71:Nanjing Vazyme Biotech Co., Ltd, Building C1-2, Red Maple Park of Technological Industry, Qixia District, People's Republic of China ~72: CAO, Lin;WANG, Xiangxi;XU, Lingjie;XU, Xiaoyu~ 33:CN ~31:202211571449.4 ~32:08/12/2022;33:CN ~31:202310007283.1 ~32:04/01/2023

2025/05742 ~ Provisional ~54:CASE NUMBER ~71:Nonhlanhla Angie Msibi, 782A Rose Avenue, Jameson Park, South Africa ~72: Nonhlanhla Angie Msibi~

2025/05745 ~ Provisional ~54:PYRAGEN AI – SYSTEM AND METHOD FOR AUTOMATED FIRE ALARM DESIGN FROM RASTER FLOOR PLANS ~71:Dorian Pedro Dennis, 22 Lympleigh Road, Plumstead, South Africa ~72: Dorian Pedro Dennis~

2025/05748 ~ Provisional ~54:METHOD AND SYSTEM FOR CONTINUOUS IN-SITU GPU KERNEL OPTIMIZATION ~71:ERLEIGH, Christopher Bjorn, 104 Chamonix 35(b) Marmion Road, Oranjezicht, Cape Town 8001, SOUTH AFRICA, South Africa ~72: ERLEIGH, Christopher Bjorn~

2025/05757 ~ Complete ~54:METHOD FOR PREPARING PHOSPHORUS-DOPED METAL COMPOUND COMPOSITE MATERIAL FROM WASTE BATTERY CARBON CATHODE ~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 68 Wenchang Road, No. 121 Street, Kunming City, Yunnan Province, 650000, People's Republic of China ~72: DONG Peng;MENG Qi;XIANG Xianglin;XING Yubo;XU Liqianyun~

2025/05746 ~ Provisional ~54:SYSTEM AND METHOD FOR DEMOCRATIZED CORPORATE DIRECTORSHIP VIA RECRUITMENT-BASED NETWORK -NDUN (NIEKLAASSEN DIRECTORS UNLIMITED NETWORK) ~71:arthur gert nieklaassen, 09 endeman street, South Africa ~72: Mikayla Nieklaassen;arthur gert nieklaassen;mikael Nieklaassen~

2025/05752 ~ Provisional ~54:UNDERGROUND OVERHEAD SAFETY SHIELD OF OPEN WOVEN WEBBING PATTERN ~71:Eziload Mining (Pty) Ltd., Plot 67, Vlakplaas 20, Tarlton, 1749, SOUTH AFRICA, South Africa ~72: WHYTE, Shane Rodger~

2025/05743 ~ Provisional ~54:SOCCER MA1000: A SUBSCRIPTION-BASED MATCH ATTENDANCE AND INCENTIVE SYSTEM ~71:Themba Lucky Chauke, 10 Hefer Street, 53 Kariba Lodge, South Africa ~72: Themba Lucky Chauke~ 33:ZA ~31:N/A-0001 ~32:04/07/2025

2025/05744 ~ Provisional ~54:SYSTEMS AND METHODS FOR EMBEDDING ECONOMIC PARTICIPATION AS A FIFTH PILLAR OF CORPORATE ACCOUNTABILITY ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/05755 ~ Complete ~54:AN ACCOUNTING SEAL STORAGE BOX ~71:Tongling University, No. 1335 Cuihu 4th Road, Economic and Technological Development Zone, Tongling City, Anhui Province, 244061, People's Republic of China ~72: Liu Yihua~

2025/05760 ~ Complete ~54:AN ACUTE KIDNEY INJURY RISK ASSESSMENT METHOD AND AN EARLY WARNING SYSTEM ~71:The Second Affiliated Hospital and Yuying Children's Hospital of Wenzhou Medical University, No. 109 Xueyuan West Road, Lucheng District, Wenzhou City, Zhejiang Province, 325000, People's Republic of China ~72: Baihao Chen;Jiadan Lu;Lingwei Jin;Muxi Jin;Pengfei Cheng;Ting Lu;Xinru Lu~

2025/05758 ~ Complete ~54:ANTI-STATIC ENERGY STORAGE CYLINDER WITH NITROGEN AND OXYGEN MIXED GAS FOR ROCK BREAKING AND USE METHOD THEREOF ~71:ANHUI UNIVERSITY OF SCIENCE & TECHNOLOGY, No. 168 Taifeng Road, Huainan, Anhui, 232001, People's Republic of China;Sinoma (Nanjing) Mining Research Institute Co., Ltd, Building 9, No. 9 Zhishi Road, Jiangning District, Nanjing, People's Republic of China ~72: CHENG, Bing;LI, Yunchao;WANG, Guangrong;WANG, Jing;XIANG, Tuoyu;ZHANG, Juan~ 33:CN ~31:2025104784514 ~32:16/04/2025

2025/05761 ~ Complete ~54:CORE ROCK QUALITY DESIGNATION (RQD) DETECTION METHOD AND APPARATUS BASED ON CONTOUR IDENTIFICATION AND IMAGE PROCESSING ~71:JIAOJIA GOLD COMPANY, SHANDONG GOLD MINING STOCK CO., LTD, Jiaojia Village, Jincheng Town, Laizhou City, People's Republic of China;UNIVERSITY OF SCIENCE AND TECHNOLOGY BEIJING, No. 30 Xueyuan Road, Haidian District, People's Republic of China ~72: Guoqiang HE;Jianxin FU;Jie WANG;Juntao HE~ 33:CN ~31:202510478536.2 ~32:16/04/2025

2025/05764 ~ Complete ~54:PARACHUTE DECELERATION DEVICE FOR MARINE UNMANNED AERIAL VEHICLE ~71:HAINAN AIRUI'AO TECHNOLOGY CO., LTD., Building A, 7th Floor, Comprehensive Service Center of the Deep-Sea Technology City in Yaqiong Bay, Yaozhou District, Sanya City, People's Republic of China ~72: CHEN, Hao;GUO, Zonghao;WEI, Haoming;XIE, Wei;XING, Jiejie;ZHANG, Aolin;ZHANG, Jian;ZHAO, Kaifeng~

2025/05766 ~ Complete ~54:METHODS OF ADMINISTERING BELUMOSUDIL FOR TREATMENT OF MULTIPLE MYELOMA ~71:KADMON CORPORATION, LLC, 100 Morris St, Morristown, United States of America ~72: BISHT, Kamlesh;BOUABOULA, Monsif;CHIRON, Marielle;MELONI, Marco;VAN DE VELDE, Helgi;VIRONE-ODDOS, Angela~ 33:US ~31:63/431,446 ~32:09/12/2022;33:EP ~31:23305096.2 ~32:26/01/2023

2025/05773 ~ Complete ~54:A MINING VEHICLE ~71:SMS OPERATIONS PTY LTD, 64 Great Eastern Hwy South Guildford, Western Australia, 6055, Australia ~72: KENT JASON SWICK;PAUL ATTIWELL;STEPHEN BLACK~ 33:AU ~31:2022903851 ~32:15/12/2022

2025/05774 ~ Complete ~54:A FLYING INSECT TRAP ~71:RENTOKIL INITIAL 1927 PLC, Compass House Manor Royal Crawley, West Sussex, RH10 9PY, United Kingdom ~72: GREGORY PETER DOBIE MURRAY;JOHN MCCRAIG;MATTHEW GREEN;SAMUEL MARK PLOWMAN~ 33:GB ~31:2301014.3 ~32:24/01/2023

2025/05779 ~ Complete ~54:ARTIFICIAL RAIN PRODUCING TECHNOLOGY PREVENTING GLOBAL WARMING AND CONTROLLING POLLUTION ~71:PIPALIA, Varshaben, 6, Pramukhdarshan Row House, Beside B.A.P.S. Swaminarayan Mandir, Chaparabhatha Road, Amroli,, Surat, Gujarat, 394107, India;PIPALIYA, Jignesh, 6, Pramukhdarshan Row House, Beside B.A.P.S. Swaminarayan Mandir, Chaparabhatha Road, Amroli,, Surat, Gujarat, 394107, India;PIPALIYA, Parshottambhai, 6, Pramukhdarshan Row House, Beside B.A.P.S. Swaminarayan Mandir, Chaparabhatha Road, Amroli,, Surat, Gujarat, 394107, India ~72: PIPALIA, Varshaben;PIPALIYA, Jignesh;PIPALIYA, Parshottambhai~ 33:IN ~31:202321003101 ~32:16/01/2023

2025/05753 ~ Complete ~54:DETECTION PRIMER-PROBE SET FOR HUMAN INTERLEUKIN 5 RECEPTOR ALPHA IL5RA MRNA, KIT, AND USE ~71:HANGZHOU ZHEDA DIXUN BIOLOGICAL GENE ENGINEERING CO., LTD., Rm. 201-209, Bldg. 2, No. 568 Binkang Rd., Binjiang Dist., Hangzhou, People's Republic of China ~72: JIANG, Xuehan;LIU, Yi;SHEN, Mei;WANG, Jiping;WU, Shandong;WU, Shanhong;WU, Zhoujie;YANG, Xukai;YIN, Deling;ZHENG, Shuai;ZHU, Mingzhi~ 33:CN ~31:2024119748291 ~32:30/12/2024

2025/05767 ~ Complete ~54:METHODS FOR TREATING IMMUNE THROMBOCYTOPENIA IN SUBJECTS WITH COGNITIVE IMPAIRMENT BY ADMINISTERING RILZABRUTINIB ~71:PRINCIPIA BIOPHARMA INC., 55 Corporate Drive, Bridgewater, New Jersey, United States of America ~72: DAAK, Ahmed;KHAN, Umer~ 33:US ~31:63/386,710 ~32:09/12/2022;33:US ~31:63/605,721 ~32:04/12/2023

2025/05772 ~ Complete ~54:HETEROCYCLIC COMPOUNDS AND USES THEREOF ~71:CERTA THERAPEUTICS PTY LTD., Level 9, 31 Queen Street, Australia ~72: BURNS, Chris;DORE, Antonio;DOWNHAM, Robert;GARNIER, Jean-Marc;MITCHELL, Lorna;POWELL, Jonathan~ 33:AU ~31:2022903880 ~32:16/12/2022

2025/05777 ~ Complete ~54:ARTIFICIAL RAIN PRODUCING TECHNOLOGY PREVENTING GLOBAL WARMING AND CONTROLLING POLLUTION ~71:PIPALIA, Varshaben, 6, Pramukhdarshan Row House, Beside B.A.P.S. Swaminarayan Mandir, Chaparabhatha Road, Amroli,, Surat, Gujarat, 394107, India;PIPALIYA, Jignesh, 6, Pramukhdarshan Row House, Beside B.A.P.S. Swaminarayan Mandir, Chaparabhatha Road, Amroli,, Surat, Gujarat, 394107, India;PIPALIYA, Parshottambhai, 6, Pramukhdarshan Row House, Beside B.A.P.S. Swaminarayan Mandir, Chaparabhatha Road, Amroli,, Surat, Gujarat, 394107, India ~72: PIPALIA, Varshaben;PIPALIYA, Jignesh;PIPALIYA, Parshottambhai~ 33:IN ~31:202321003101 ~32:16/01/2023

2025/05750 ~ Provisional ~54:FLAVOURED BEER ~71:NEWSHELF 1167 (PTY) LTD t/a UNITED NATIONAL BREWERIES (SA), Gallagher House, Gallagher Estate, Richards Drive, MIDRAND 1685 , Gauteng, SOUTH AFRICA, South Africa ~72: YALALA, Phumuzile Ndhlovu~

2025/05763 ~ Complete ~54:ANTI-SINKING FLOTATION DEVICE FOR MARINE UNMANNED AERIAL VEHICLE ~71:HAINAN AIRIO TECHNOLOGY CO., LTD., Building A, 7th Floor, Comprehensive Service Center of the Deep-Sea Technology City in Yaqiong Bay, Yaozhou District, Sanya City, People's Republic of China ~72: CHEN, Hao;GUO, Zonghao;LIU, Hang;WEI, Haoming;XIE, Wei;XING, Jiejie;ZHANG, Aolin;ZHANG, Jian;ZHAO, Kaifeng~

2025/05754 ~ Complete ~54:NOVEL GREEN CEMENT BASED ON PRODUCT SYSTEM OF CALCIUM CARBONATE-ETTRINGITE-CALCIUM CARBONATE ALUMINATE ~71:Chongqing University, No. 174, Shapingba Main Street, Shapingba District, Chongqing, 400044, People's Republic of China ~72: HUANG, Yubin;XIONG, Hao;ZHANG, Cheng~

2025/05756 ~ Complete ~54:REAL TIME MONITORING SYSTEM FOR NURSE COMPASSION FATIGUE BASED ON ARTIFICIAL INTELLIGENCE ~71:Zhang Huiling, No. 350 Longzihu Road, Xinzhan District, Hefei City, Anhui Province, 230000, People's Republic of China ~72: Guan Yuxiang;Hao Shujie;Hu Kecui;Meng Yahui;Qin Qin;Shi Hui;Xia Zheyuan;Yu Shuang;Zhang Huiling~

2025/05768 ~ Complete ~54:PROBIOTIC STRAINS CAPABLE OF INHIBITING FUSOBACTERIUM NECROPHORUM AND IMPROVING GUT BARRIER INTEGRITY ~71:CHR. HANSEN A/S, Boege Alle 10-12, Denmark ~72: BOLL, Erik Juncker;CAPERN, Lena Catrine;CAPPELLOZZA, Bruno Ieda;COPANI, Giuseppe;SCHUTZ, Jennifer;SKJOET-RASMUSSEN, Line~ 33:EP ~31:23152143.6 ~32:18/01/2023;33:EP ~31:23165505.1 ~32:30/03/2023

2025/05776 ~ Complete ~54:MODIFIED RHABDOVIRUS GLYCOPROTEINS AND USES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591-6707, United States of America;VYRIAD, INC., 2900 37th Street NW, Rochester, Minnesota, 55901, United States of America ~72: CHRIS ZIEGLER;GOPAL NAIK NENAVATH;JASON BUEHLER;MELISSA MOY;RIANNA VANDERGAAST;STEPHEN J RUSSELL~ 33:US ~31:63/481,847 ~32:27/01/2023;33:US ~31:63/466,931 ~32:16/05/2023;33:US ~31:63/597,831 ~32:10/11/2023

2025/05780 ~ Complete ~54:AN AUTOMATIC WATER MANAGEMENT BASED VEHICLE WASHING SYSTEM AND METHOD THEREOF ~71:BLUEVERSE HOLDINGS PRIVATE LIMITED, 8th Floor, Regent Chambers, Nariman Point, India ~72: SHAH, Rushang~ 33:IN ~31:202221071630 ~32:12/12/2022

2025/05762 ~ Complete ~54:UNMANNED AERIAL VEHICLE FOR MARITIME SEARCH AND RESCUE TRANSFER ~71:HAINAN AIRIO TECHNOLOGY CO., LTD., Building A, 7th Floor, Comprehensive Service Center of the Deep-Sea Technology City in Yaqiong Bay, Yaozhou District, Sanya City, People's Republic of China ~72: CHEN, Hao;GUO, Zonghao;WEI, Haoming;XIE, Wei;XING, Jiejie;ZHANG, Aolin;ZHANG, Jian;ZHAO, Kaifeng~

2025/05765 ~ Complete ~54:SEARCH AND RESCUE DEVICE FOR MARINE UNMANNED AERIAL VEHICLE ~71:HAINAN AIRIO TECHNOLOGY CO., LTD., Building A, 7th Floor, Comprehensive Service Center of the Deep-Sea Technology City in Yaqiong Bay, Yaozhou District, Sanya City, People's Republic of China ~72: CHEN, Hao;GUO, Zonghao;WEI, Haoming;XIE, Wei;XING, Jiejie;ZHANG, Aolin;ZHANG, Jian;ZHAO, Kaifeng~

2025/05775 ~ Complete ~54:GRAPHICAL USER INTERFACE SYSTEM FOR QUALITY CONTROL ~71:METHODICAL MIND, LLC, 1601 Research Boulevard Rockville, Maryland, 20850, United States of America ~72: ARVIND PRABHU;GEORGE SIGAL;JACOB N WOHLSTADTER;LAURE MOLLER;MICHAEL VOCK;XINRI CONG~ 33:US ~31:63/479,068 ~32:09/01/2023

2025/05749 ~ Provisional ~54:FORCED FLUX JUMP REACTOR CAUSING NON-LINEAR RESPONSE FOR SUPPRESSION OF HARMONICS/ SUPRAHARMONICS ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2025/05751 ~ Provisional ~54:FLAVOURED TRADITIONAL AFRICAN BEER ~71:NEWSHELF 1167 (PTY) LTD t/a UNITED NATIONAL BREWERIES (SA), Gallagher House, Gallagher Estate, Richards Drive, MIDRAND 1685 , Gauteng, SOUTH AFRICA, South Africa ~72: YALALA, Phumuzile Ndhlovu~

2025/05769 ~ Complete ~54:ANTI-ABETA VACCINE THERAPY ~71:AC Immune SA, EPFL Innovation Park, Building B, LAUSANNE 1015, SWITZERLAND, Switzerland ~72: KOSCO-VILBOIS, Marie;STREFFER, Johannes;VUKICEVIC, Marija~ 33:EP ~31:23153558.4 ~32:26/01/2023

2025/05770 ~ Complete ~54:MONEY TRANSACTION SYSTEM, INFORMATION TERMINAL, COMPUTER PROGRAM, AND MONEY TRANSACTION METHOD ~71:Variety M-1 Inc., 4-18-5F, Kaigandoori, Naka-ku, YOKOHAMA-SHI 2310002, KANAGAWA, JAPAN, Japan ~72: TOSHIAKI, Mitake~ 33:JP ~31:2023-024538 ~32:20/02/2023

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2025/05790 ~ Complete ~54:MACHINE-READABLE STORAGE MEDIUM FOR GENERATING DATABASE OF BODY STATUSES ~71:LIMITED LIABILITY COMPANY DEVIMED, VN.TER.G. MUNITSYPALNIY OKRUG AKADEMICHESKIY, UL DMITRIYA ULIANOVA, D. 30, K. 2, MOSCOW, 117292, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110917 ~32:26/04/2025

2025/05798 ~ Complete ~54:MACHINE-READABLE STORAGE MEDIUM FOR IDENTIFYING BODY STATUS ~71:LIMITED LIABILITY COMPANY DEVIMED, VN.TER.G. MUNITSYPALNIY OKRUG AKADEMICHESKIY, UL DMITRIYA ULIANOVA, D. 30, K. 2, MOSCOW, 117292, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110918 ~32:26/04/2025

2025/05806 ~ Complete ~54:MACHINE-READABLE STORAGE MEDIUM FOR DISTRIBUTING DOSAGE FORMS ~71:LIMITED LIABILITY COMPANY DEVIMED, VN.TER.G. MUNITSYPALNIY OKRUG AKADEMICHESKIY, UL DMITRIYA ULIANOVA, D. 30, K. 2, MOSCOW, 117292, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110921 ~32:26/04/2025

2025/05818 ~ Complete ~54:HIGH-EFFICIENCY CONTINUOUS MINING METHOD WITH SEPARATED MINIG AND FILLING ~71:CHANGSHA INSTITUTE OF MINING RESEARCH CO.,LTD, No.343 Lushan South Road, Yuelu District, Changsha, People's Republic of China ~72: Chang LIU;Guanying LV;Liang ZHAO;Min QIN;Weiming LI;Yinghua HUANG;Zeyang GUO~ 33:CN ~31:202410761068.5 ~32:13/06/2024

2025/05827 ~ Complete ~54:LIQUID FERTILISER AND A METHOD OF MANUFACTURING THEREOF ~71:VAN VUUREN, Nico, 13 Komatidraai,, South Africa ~72: VAN VUUREN, Nico~ 33:ZA ~31:2023/00692 ~32:17/01/2023

2025/05831 ~ Provisional ~54:GasPetrolAPP (DOORSTEP PETROL DELIVERY) ~71:BONGO SOTYATO, 17 PINE STREET LINDHAVENT, South Africa ~72: BONGO SOTYATO~

2025/05782 ~ Provisional ~54:A SLURRY PUMP ~71:VAN TONDER, Jacobus, Petrus, 29 BRANCH AVE, BIRCHWOOD ESTATE, POTCHEFSTROOM, SOUTH AFRICA, South Africa;VAN TONDER, Johannes, Hendrik, 18 POTCHEFSTROOM STRAAT, FOCHVILLE, SOUTH AFRICA, South Africa ~72: VAN TONDER, Jacobus, Petrus;VAN TONDER, Johannes, Hendrik~

2025/05793 ~ Complete ~54:METHOD FOR DISTRIBUTING DOSAGE FORMS ~71:KRAVCHENKO Alexander Aleksandrovich, ul. Novoslobodskaya, d. 73/68, str. 5, kv. 207, Moscow, 127055, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110906 ~32:26/04/2025

2025/05797 ~ Complete ~54:METHOD FOR DISTRIBUTING DOSAGE FORMS ~71:LIMITED LIABILITY COMPANY DEVIMED, VN.TER.G. MUNITSYPALNIY OKRUG AKADEMICHESKIY, UL DMITRIYA ULIANOVA, D. 30, K. 2, MOSCOW, 117292, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110916 ~32:26/04/2025

2025/05800 ~ Complete ~54:METHOD FOR GENERATING A DATABASE ~71:KRAVCHENKO Alexander Aleksandrovich, ul. Novoslobodskaya, d. 73/68, str. 5, kv. 207, Moscow, 127055, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110902 ~32:26/04/2025

2025/05804 ~ Complete ~54:MACHINE-READABLE STORAGE MEDIUM FOR GENERATING INSTRUCTION TO GENERATE CONTROL SIGNALS ~71:KRAVCHENKO Alexander Aleksandrovich, ul. Novoslobodskaya, d. 73/68, str. 5, kv. 207, Moscow, 127055, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110910 ~32:26/04/2025

2025/05812 ~ Complete ~54:LASER INDUCED FLUORESCENCE INSPECTION DEVICE FOR INTERNAL CORROSION DETECTION IN CENTRIFUGAL PUMPS ~71:ANHUI SHANGZHAN MOULD INDUSTRIAL CO.,LTD, NO. 22 JINFU ROAD, SHUANGFENG INDUSTRY DISTRICT, CHANGFENG COUNTY, HEFEI CITY, People's Republic of China;CHAOHU UNIVERSITY, NO.1 BANTANG ROAD, CHAOHU ECONOMIC DEVELOPMENT ZONE, People's Republic of China ~72: JIA, Bin;TANG, Bo;WANG, Shan;WANG, Weijun;WANG, Yuexia;WANG, Yuqin;ZHENG, Xiang~

2025/05820 ~ Complete ~54:SYSTEMS AND METHODS FOR SOLAR POWER AND VOLTAGE DENSITY ~71:MILOJKOVIC, Aleksandar, 5510 Chancellor Boulevard Vancouver, Canada ~72: MILOJKOVIC, Aleksandar~ 33:CA ~31:3184019 ~32:14/12/2022;33:CA ~31:3201382 ~32:17/05/2023

2025/05823 ~ Complete ~54:PROCESS FOR THE PREPARATION OF BIGUANIDINES AND TRIAZINES ~71:Adama Agan Ltd., P.O. Box 262, Northern Industrial Zone, ASHDOD 7710001, ISRAEL, Israel ~72: ERCHOV, Leonid;SIMAAN, Marwan E.~ 33:EP ~31:22217081.3 ~32:29/12/2022

2025/05829 ~ Complete ~54:COMPOSITIONS AND METHODS FOR TREATING HYPERPROCALCITONEMIA ~71:VIVACELLE BIO, INC., 2300 Main Street, Suite 900, Kansas City, Missouri 64108, United States of America ~72: CUTHBERT O SIMPKINS~ 33:US ~31:63/482,540 ~32:31/01/2023

2025/05787 ~ Complete ~54:MACHINE-READABLE STORAGE MEDIUM FOR OBTAINING A DATASET ~71:KRAVCHENKO Alexander Aleksandrovich, ul. Novoslobodskaya, d. 73/68, str. 5, kv. 207, Moscow, 127055, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110909 ~32:26/04/2025

2025/05796 ~ Complete ~54:METHOD FOR GENERATING NOTIFICATION TO BE DISPLAYED BY OUTPUT DEVICE ~71:LIMITED LIABILITY COMPANY DEVIMED, VN.TER.G. MUNITSYPALNIY OKRUG AKADEMICHESKIY, UL DMITRIYA ULIANOVA, D. 30, K. 2, MOSCOW, 117292, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110915 ~32:26/04/2025

2025/05801 ~ Complete ~54:METHOD FOR GENERATING A DATABASE QUERY ~71:KRAVCHENKO Alexander Aleksandrovich, ul. Novoslobodskaya, d. 73/68, str. 5, kv. 207, Moscow, 127055, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110903 ~32:26/04/2025

2025/05814 ~ Complete ~54:CARBON NANOTUBE/GRAPHITE HYBRID MATERIAL AND PREPARATION METHOD THEREOF AND LITHIUM-ION BATTERY ~71:XIAMEN KNANO GRAPHENE TECHNOLOGY CO.,LTD, Building 16, No.2881 Dongfu Blvd, Haicang, Xiamen, Fujian, 361027, People's Republic of China;YONG'AN KNANO NEW MATERIAL TECHNOLOGY CO., LTD., No. 21, Shuidong Park, Gongchuan Town, Yong'an City, Sanming, Fujian, 366011, People's Republic of China ~72: Chongqing Fang;Jiangbin Hong;Yanlong Fang~ 33:CN ~31:202411984856.7 ~32:31/12/2024

2025/05819 ~ Complete ~54:SYNTHESIS METHOD FOR TRANSFORMING PYRIDINE INTO AROMATIC DIALDEHYDE ~71:Sichuan University, No. 24, South Section 1, First Ring Road, Chengdu, People's Republic of China ~72: Haiyan FU;Hua CHEN;Jiaqi XU;Meixin YAN;Ruixiang LI;Weichao XUE;Xueli ZHENG;Yonglin SHI~ 33:CN ~31:2024110267775 ~32:30/07/2024

2025/05826 ~ Complete ~54:NEW ACETYLCHOLINESTERASE INHIBITORS AND USES THEREOF FOR PREVENTING AND TREATING COMPULSIVE DISORDERS AND NEURODEGENERATIVE DISORDERS ~71:CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), 3, rue Michel Ange, France;SORBONNE UNIVERSITE, 21, rue de l'Ecole de Médecine, France;UNIVERSITE DE MCGILL, 845, rue Sherbrooke Ouest Montréal, Canada ~72: EL MESTIKAWY, Salah;FAVIER, Mathieu;PIETRANCOSTA, Nicolas~ 33:IB ~31:PCT/IB2023/000052 ~32:02/02/2023

2025/05788 ~ Complete ~54:MACHINE-READABLE STORAGE MEDIUM FOR DISTRIBUTING DOSAGE FORMS ~71:KRAVCHENKO Alexander Aleksandrovich, ul. Novoslobodskaya, d. 73/68, str. 5, kv. 207, Moscow, 127055, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110911 ~32:26/04/2025

2025/05791 ~ Complete ~54:MACHINE-READABLE STORAGE MEDIUM FOR GENERATING NOTIFICATION TO BE DISPLAYED BY OUTPUT DEVICE ~71:LIMITED LIABILITY COMPANY DEVIMED, VN.TER.G. MUNITSYPALNIY OKRUG AKADEMICHESKIY, UL DMITRIYA ULIANOVA, D. 30, K. 2, MOSCOW, 117292, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110920 ~32:26/04/2025

2025/05792 ~ Complete ~54:METHOD FOR OBTAINING A DATASET ~71:KRAVCHENKO Alexander Aleksandrovich, ul. Novoslobodskaya, d. 73/68, str. 5, kv. 207, Moscow, 127055, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110904 ~32:26/04/2025

2025/05803 ~ Complete ~54:MACHINE-READABLE STORAGE MEDIUM FOR GENERATING A DATABASE QUERY ~71:KRAVCHENKO Alexander Aleksandrovich, ul. Novoslobodskaya, d. 73/68, str. 5, kv. 207, Moscow, 127055, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110908 ~32:26/04/2025

2025/05805 ~ Complete ~54:METHOD FOR GENERATING DATABASE OF BODY STATUSES ~71:LIMITED LIABILITY COMPANY DEVIMED, VN.TER.G. MUNITSYPALNIY OKRUG AKADEMICHESKIY, UL DMITRIYA ULIANOVA, D. 30, K. 2, MOSCOW, 117292, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110912 ~32:26/04/2025

2025/05809 ~ Complete ~54:DOUBLE-STRANDED RNAI AGENTS FOR TARGETING AND REGULATING HBV GENE EXPRESSION, AND A USE THEREOF ~71:HANGZHOU TIANLONG PHARMACEUTICAL CO., LTD., Room 701, Building 3, Yinhai Science and Technology Innovation Center, Xiasha Subdistrict, Qiantang District, Hangzhou, People's Republic of China ~72: GAO, Zhongcai;HUANG, Zeao;SONG, Gengshen;TIAN, Zhikang;WU, Yucheng;XIONG, Kai;YANG, Shuo;YANG, Yang~ 33:CN ~31:2024109094050 ~32:08/07/2024;33:CN ~31:2025100376183 ~32:09/01/2025;33:CN ~31:2025100393920 ~32:09/01/2025;33:CN ~31:2025100396134 ~32:09/01/2025

2025/05813 ~ Complete ~54:LASER ULTRASONIC DETECTION DEVICE FOR INTERNAL DEFECT INSPECTION IN CENTRIFUGAL PUMP COMPONENTS ~71:ANHUI UNIVERSITY, NO.111, JIULONG ROAD, HEFEI ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, HEFEI CITY, People's Republic of China;CHAOHU UNIVERSITY, NO.1 BANTANG ROAD, CHAOHU ECONOMIC DEVELOPMENT ZONE, HEFEI CITY,, People's Republic of China ~72: HOU, Guanyu;LI, Guang;WANG, Yuqin~

2025/05817 ~ Complete ~54:THERAPEUTIC COMPOUNDS ~71:SANOFI, 46 Avenue de la Grande, France ~72: BUNING, Christian;HALLAND, Nis;HEINELT, Uwe;LINNEY, Ian, Duncan;MATTER, Hans;WESTERMANN, Jan-Christoph~ 33:EP ~31:22212666.6 ~32:09/12/2022

2025/05821 ~ Complete ~54:BOTTLE ~71:FRUGALPAC LIMITED, Frugal House 37 Crane Boulevard, United Kingdom ~72: COSTA, Inês;GROGAN, John-Paul~ 33:GB ~31:2219727.1 ~32:23/12/2022

2025/05824 ~ Complete ~54:LIPOSOMAL CONSTRUCT ~71:AC Immune SA, EPFL Innovation Park, Building B, LAUSANNE 1015, SWITZERLAND, Switzerland ~72: AYER, Maxime;DI BONAVENTURA, Ivan~ 33:EP ~31:23153562.6 ~32:26/01/2023;33:EP ~31:23155924.6 ~32:09/02/2023

2025/05784 ~ Provisional ~54:FLIPWARE OPS MANAGEMENT SYSTEM ~71:Thanduxolo Aubrey Mthembu, Thanduxolo Mthembu, South Africa ~72: Thanduxolo Aubrey Mthembu~

2025/05786 ~ Complete ~54:A METHOD FOR CALCULATING THE INTENSITY OF COMPETITION AMONG GRASSLAND PLANTS AT THE COMMUNITY LEVEL ~71:Southwest Forestry University, No. 300 Bailong Temple, Panlong District,, Kunming City, Yunnan Province, 650224, People's Republic of China ~72: GANJURJAV, Hasbagan;LU, Feiying;YUE, Haitao;ZHANG, Yong~

2025/05789 ~ Complete ~54:METHOD FOR GENERATING INSTRUCTION TO GENERATE CONTROL SIGNALS ~71:LIMITED LIABILITY COMPANY DEVIMED, VN.TER.G. MUNITSYPALNIY OKRUG AKADEMICHESKIY, UL DMITRIYA ULIANOVA, D. 30, K. 2, MOSCOW, 117292, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110914 ~32:26/04/2025

2025/05794 ~ Complete ~54:MACHINE-READABLE STORAGE MEDIUM FOR GENERATING A DATABASE ~71:KRAVCHENKO Alexander Aleksandrovich, ul. Novoslobodskaya, d. 73/68, str. 5, kv. 207, Moscow, 127055, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110907 ~32:26/04/2025

2025/05802 ~ Complete ~54:METHOD FOR GENERATING INSTRUCTION TO GENERATE CONTROL SIGNALS ~71:KRAVCHENKO Alexander Aleksandrovich, ul. Novoslobodskaya, d. 73/68, str. 5, kv. 207, Moscow, 127055, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110905 ~32:26/04/2025

2025/05808 ~ Complete ~54:INTELLIGENT TOOL LIBRARY SYSTEM FOR INDUSTRIAL ROBOTS ~71:ANHUI VOCATIONAL AND TECHNICAL COLLEGE, NO. 2600, WENZHONG ROAD, XINZHAN DISTRICT, HEFEI CITY, People's Republic of China ~72: CHEN, Xinhuan;DU, Xuanfu;LI, Nengfei;SHENG, Dongxu;WANG, Kaile;XIE, Xiaomin;YU, Xiaoyu;ZHOU, Yong~

2025/05810 ~ Complete ~54:PROBE INSTALLATION DEVICE FOR PIPELINE CORROSION DETECTION ~71:GUANGDONG UNIVERSITY OF PETROCHEMICAL TECHNOLOGY, NO. 139 GUANDU 2ND ROAD, MAOMING CITY, MAONAN DISTRICT, People's Republic of China ~72: CAI, Yaxin;CHEN, Guan;KANG, Fangchao;SHEN, Shuqian;WANG, Zehua;ZHANG, Hang~

2025/05816 ~ Complete ~54:SOLID DISPERSIONS COMPRISING AMORPHOUS PIMOBENDAN AND ONE OR MORE STABILIZING POLYMERS ~71:BOEHRINGER INGELHEIM VETMEDICA GMBH, Binger Strasse 173, Germany ~72: LACZAY, Péter;SÓTI, Péter Lajos~ 33:EP ~31:22213699.6 ~32:15/12/2022

2025/05828 ~ Complete ~54:PRODUCTION METHOD FOR EXHAUST GAS PURIFICATION CATALYST ~71:CATALER CORPORATION, 7800, Chihama, Kakegawa-shi, Shizuoka, 4371492, Japan ~72: ETSUKO OHARA;RYOMA MORITA;TAKASHI KUWAHARA~ 33:JP ~31:2022-209909 ~32:27/12/2022

2025/05783 ~ Provisional ~54:FRAUDULENT APPLICATION NOTIFICATION MECHANISM ~71:Thato Matima, 52 Gie Road, South Africa ~72: Thato Matima~

2025/05785 ~ Provisional ~54:SYSTEM AND METHOD FOR FACILITATING MUSIC, FILM AND TV SHOWS ROYALTY INVESTMENT AND REVENUE DISTRIBUTION ~71:Dumi Mbona, 21 Lols Rd, South Africa ~72: Dumi Mbona~

2025/05795 ~ Complete ~54:METHOD FOR IDENTIFYING BODY STATUS ~71:LIMITED LIABILITY COMPANY DEVIMED, VN.TER.G. MUNITSYPALNIY OKRUG AKADEMICHESKIY, UL DMITRIYA ULIANOVA, D. 30, K. 2, MOSCOW, 117292, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110913 ~32:26/04/2025

2025/05799 ~ Complete ~54:MACHINE-READABLE STORAGE MEDIUM FOR GENERATING INSTRUCTION TO GENERATE CONTROL SIGNALS ~71:LIMITED LIABILITY COMPANY DEVIMED, VN.TER.G. MUNITSYPALNIY OKRUG AKADEMICHESKIY, UL DMITRIYA ULIANOVA, D. 30, K. 2, MOSCOW, 117292, Russian Federation ~72: KRAVCHENKO Alexander Aleksandrovich~ 33:RU ~31:2025110919 ~32:26/04/2025

2025/05807 ~ Complete ~54:DEVICE FOR REAL-TIME MEASUREMENT OF BOREHOLE WATER LEVEL IN GEOTECHNICAL INVESTIGATION ~71:Zunyi Normal University, Ping'an Avenue, Xinpu New District, Zunyi, Guizhou Province, 563000, People's Republic of China ~72: Chaoyu CHEN~

2025/05811 ~ Complete ~54:MONO-DIRECTIONAL PACKAGING ~71:MPACT LIMITED, 4th Floor, 3 Melrose Boulevard, Melrose Arch, Johannesburg, Gauteng, 2196, South Africa ~72: STEFAN HOFMEYR BOSHOFF~ 33:ZA ~31:2024/02667 ~32:08/04/2024

2025/05815 ~ Complete ~54:METHOD FOR MINING STOPE BETWEEN LARGE-VOLUME FILLING BODIES ~71:CHANGSHA INSTITUTE OF MINING RESEARCH CO.,LTD, No.343 Lushan South Road, Yuelu District, Changsha, People's Republic of China ~72: Chang LIU;Gexuanzi LUO;Huining NI;Liang ZHAO;Xingyu TAN;Xu WANG;Yilong LI;Ziyang GUO~ 33:CN ~31:202510283584.6 ~32:11/03/2025

2025/05822 ~ Complete ~54:ADENO-ASSOCIATED VIRUS FORMULATIONS ~71:Spark Therapeutics, Inc., 3737 Market Street, Ste. 1300, PHILADELPHIA 19104, PA, USA, United States of America ~72: BAKER, Karen Collette;LAM, Leslie;PADMAKUMAR, Smrithi;PETROFF, Matthew;VINEET, Kumar~ 33:US ~31:63/477,017 ~32:23/12/2022;33:US ~31:63/612,443 ~32:20/12/2023

2025/05825 ~ Complete ~54:FUNGICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: EDMUNDS, Andrew;GRASSO, Valeria;SCARBOROUGH, Christopher Charles;WOLF, Hanno Christian~ 33:EP ~31:23154427.1 ~32:01/02/2023;33:EP ~31:23180646.4 ~32:21/06/2023

2025/05830 ~ Complete ~54:MULTISPECIFIC ANTIBODIES AND USES THEREOF ~71:GENENTECH, INC., 1 DNA Way South, San Francisco, California, 94080-4990, United States of America ~72: AMBROSE JON WILLIAMS;BAOMEI WANG;CECILIA PUI CHI CHIU;CHRISTOPH SPIESS;EMEL ESEN SERGIN;JAMES

THOMAS KOERBER;MICHAEL ANDREW DILLON;TEEMU TAPANI JUNTTILA~ 33:US ~31:63/480,469 ~32:18/01/2023

. - APPLIED ON 2025/07/09 -

2025/05832 ~ Provisional ~54:ADAPTIVE VEHICLE LOAN REPAYMENT SYSTEM WITH BEHAVIORAL INCENTIVES AND STAKEHOLDER INTEGRATION ~71:Antoine Eales, 21 Jonkersberg Avenue, South Africa ~72: Antoine Eales~

2025/05834 ~ Provisional ~54:FENCE POST ~71:COCHRANE STEEL PRODUCTS (PTY) LTD, 125 Fitter Road, Spartan, South Africa ~72: COCHRANE, Richard Bruce~

2025/05836 ~ Provisional ~54:SYSTEM AND METHOD FOR A PRIVATE SECTOR–LED SOVEREIGN CAPITAL PLATFORM ENABLING INCLUSIVE ECONOMIC PARTICIPATION AND NATIONAL WEALTH GENERATION ~71:George Smith, 11 Vorster Place, South Africa ~72: George Smith~

2025/05840 ~ Complete ~54:ETHANOL-FREE GEL FORMULATION CARTRIDGE FOR E-VAPING DEVICE ~71:ALTRIA CLIENT SERVICES LLC, 6601 West Broad Street, Richmond, Virginia, 23230, United States of America ~72: CHRISTOPHER S TUCKER;GEOFFREY BRANDON JORDAN;MUNMAYA K MISHRA;PAULINE MARCQ;RAYMOND LAU;SHAOYONG YU~ 33:US ~31:62/072,076 ~32:29/10/2014

2025/05835 ~ Provisional ~54:AFTER ROBOT APP ~71:EDMOND MATLADI, 1257 Gija street, South Africa ~72: Edmond Matladi~

2025/05860 ~ Complete ~54:PROTAC CHIMERIC COMPOUND, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:HANGZHOU ZHONGMEIHUADONG PHARMACEUTICAL CO., LTD., No. 866, Moganshan Road, GongShu District, Hangzhou, Zhejiang, 310011, People's Republic of China ~72: DONGZHOU LIU;FENG WANG;LING WANG;LINLI WANG;MENGQIANG WU;WENQIANG ZHAI;YUJIE CHANG;ZHIMIN ZHANG~ 33:CN ~31:202211626637.2 ~32:16/12/2022;33:CN ~31:202310775874.3 ~32:28/06/2023

2025/05866 ~ Complete ~54:3-(2-(DIMETHYLAMINO)ETHYL)-1H-INDOL-4-YL DERIVATIVES ~71:COMPASS Pathfinder Limited, 3rd Floor, 1 Ashley Road, ALTRINCHAM WA14 2DT, CHESHIRE, UNITED KINGDOM, United Kingdom ~72: MORPHY, John Richard~ 33:US ~31:63/481,385 ~32:24/01/2023;33:US ~31:63/457,469 ~32:06/04/2023;33:US ~31:18/420,562 ~32:23/01/2024

2025/05869 ~ Complete ~54:ELECTRIC METER WITH DETECTION SYSTEM ~71:GREENTEC INTERNATIONAL LIMITED, No 1 Parkside Court, Greenhough Road, United Kingdom ~72: HUNT, Matthew~ 33:GB ~31:2300667.9 ~32:17/01/2023

2025/05846 ~ Complete ~54:WINDOW SECURITY SYSTEM ~71:DE VILLIERS, Marius de Wet, 1 Hoog Street, South Africa ~72: DE VILLIERS, Marius de Wet~ 33:ZA ~31:2024/02208 ~32:09/04/2024

2025/05847 ~ Complete ~54:A METHOD FOR ENHANCING ACCIDENT WARNING EFFICIENCY BASED ON VIDEO TRAJECTORY PREDICTION ~71:Chongqing Expressway Group Co., Ltd, No. 66, Yinshan Road, Yubei District, Chongqing City, People's Republic of China;Chongqing Shouxun Technology Co., Ltd., No. 52, Xin Nan Road, Longxi Street, Yubei District, Chongqing City, People's Republic of China ~72: CAI Xiao;CHEN Xingzhou;DAI Ning;DAI Xiaohong;HE Ying;LAI Xin;LI Dejuan;LI Haibo;LIU Zhen;WANG Hao;WANG Jingting;WANG Shisen~

2025/05853 ~ Complete ~54:SINGLE-CELL METHODS FOR THE DISCOVERY OF DISEASE RESISTANCE LEADS ~71:BASF AGRICULTURAL SOLUTIONS US LLC, T.W. ALEXANDER DRIVE 2, RESEARCH

TRIANGLE PARK, NC 27713, USA, United States of America ~72: DE VLEESSCHAUWER, David;DENOLF, Peter~ 33:EP ~31:22214711.8 ~32:19/12/2022;33:EP ~31:23158329.5 ~32:23/02/2023

2025/05858 ~ Complete ~54:SUSTAINED-RELEASE MICROSPHERES INCLUDING GLP-1 RECEPTOR AGONIST OR PHARMACEUTICALLY ACCEPTABLE SALT THEREOF AND USE THEREOF ~71:PEPTRON, INC., (JEONMIN-DONG) 37-24, YUSEONG-DAERO 1628 BEON-GIL,YUSEONG-GU, DAEJEON 34054, REP OF KOREA, Republic of Korea ~72: BAE, Ji, Hyun;CHANG, Seung, Gu;CHO, Jae, Pyoung;CHOI, Ho, Il;JANG, Eun, Seo;LEE, Ji, Hyang~ 33:KR ~31:10-2022-0177054 ~32:16/12/2022;33:KR ~31:10-2023-0184732 ~32:18/12/2023

2025/05839 ~ Complete ~54:IRRIGATION PIVOT FOR SMALL SCALE FARMERS ~71:INTWASA PFUMVUDZA (PRIVATE) LIMITED, PLOT 1 RAKODZI MARONDERA, Zimbabwe ~72: STOCKIL, BERIN NATAHNIEL~

2025/05859 ~ Complete ~54:ONBOARD CHARGER FOR ELECTRIC VEHICLES ~71:CAPACTECH LIMITED, 19 KINGSMILL BUSINESS PARK, CHAPEL MILL ROAD, KINGSTON UPON THAMES SURREY KT1 3GZ, UNITED KINGDOM, United Kingdom ~72: VARGAS-REIGHLEY, Dorian~ 33:EP ~31:22213637.6 ~32:14/12/2022;33:GB ~31:2303947.2 ~32:17/03/2023;33:GB ~31:2307946.0 ~32:26/05/2023;33:GB ~31:2317137.4 ~32:08/11/2023

2025/05861 ~ Complete ~54:ENCODING AND DECODING METHOD, CODE STREAM, ENCODER, DECODER AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road Wusha Chang'an, Dongguan, Guangdong, 523860, People's Republic of China ~72: FUZHENG YANG;JUNYAN HUO;MING LI;XUE HAO;YANZHUO MA~

2025/05864 ~ Complete ~54:CONFIGURING APPLICATION FUNCTION POLICIES AND NETWORK SLICE OPTIMIZATION ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: PASTUSHOK, Igor;RÉTHY, György;SHARMA, Ashish S~ 33:US ~31:63/437,671 ~32:07/01/2023

2025/05833 ~ Provisional ~54:BUOY AND BUOY ASSEMBLY ~71:COCHRANE USA INC, 3551 Lee Hill Dr, Fredericksburg, United States of America ~72: COCHRANE, Alexander Richard~

2025/05837 ~ Provisional ~54:ULTIMATE BURIAL METHOD ~71:Sebe James Kgati, 2389 Westbrook Estate, Protea Drive, South Africa ~72: Sebe James Kgati~

2025/05838 ~ Complete ~54:MINING BACKFILL CURING ENVIRONMENT SIMULATION TESTER AND METHOD THEREFOR ~71:Backfill Engineering Laboratory, Shandong Gold Mining Technology Co., Ltd., Jiaojia Village, Jincheng Town, Laizhou City, Yantai, People's Republic of China ~72: Gengjie ZHU;Guangbo LI;Jiaren GUO;Jie LIU;Jiguang YANG;Jinsheng XIN;Laifa SANG;Liu YANG;Pengtao WANG;Wenhai WANG;Xiaodong JING;Yuhang SHENG;Yunpeng KOU;Zaihai WU;Zengjia WANG;Zepu SONG;Zijun SHEN~ 33:CN ~31:2024111705300 ~32:26/08/2024

2025/05841 ~ Complete ~54:PREPARATION METHOD OF HIGH-SPECIFIC-STRENGTH SOLID WASTE CERAMSITE ~71:Central South University, No. 932, Lushan South Road, Changsha City, Hunan Province, 410083, People's Republic of China ~72: GAO, Zhiyong;HAN, Haisheng;HU, Wenjihao;SUN, Wei;WANG, Fan;WANG, Li;WANG, Yanxiu~

2025/05845 ~ Complete ~54:A NOVEL AIR-GAP MEMBRANE DISTILLATION MODULE ~71:UNIVERSITY OF JINAN, No.336, Nanxinzhuang West Road, Shizhong District, Jinan, People's Republic of China ~72: GUO, Guangzhen;HAO, Zhenhan;HU, Zhuo;LIU, Xinying;LIU, Xuan;SONG, Zhuang;SU, Zhengxian;WANG, Shiqiang;ZHENG, Pengchao;ZHU, Xiaoxuan~ 33:CN ~31:2024111782400 ~32:27/08/2024

2025/05848 ~ Complete ~54:A PASSIVE WING DEFLECTION FLAPPING-WING AIRCRAFT ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No.777, Jialingjiang East Road, Huangdao District, Qingdao, People's Republic of China ~72: YU, Shiyuan;ZHANG, Pingxia;ZHU, Yongqiang~ 33:CN ~31:2024111945855 ~32:29/08/2024

2025/05849 ~ Complete ~54:ACTIVE DEPLOYMENT AND PASSIVE RETRACTION FLAPPING-WING AIRCRAFT ~71:QINGDAO UNIVERSITY OF TECHNOLOGY, No.777, Jialingjiang East Road, Huangdao District, Qingdao, People's Republic of China ~72: ZHANG, Long;ZHANG, Pingxia;ZHU, Yongqiang~ 33:CN ~31:2024112036633 ~32:30/08/2024

2025/05856 ~ Complete ~54:WATER-DILUTABLE VOC-FREE CLEANING COMPOSITIONS ~71:CHEMETALL GMBH, TRAKEHNER STRASSE 3, 60487 FRANKFURT, GERMANY, Germany ~72: ESPINOS, David;JAEN FRANCO, Miguel, Angel;RODRIGO, Fco, Javier;YANGUES, Albert~ 33:EP ~31:22214644.1 ~32:19/12/2022

2025/05872 ~ Provisional ~54:USE AND POSSESSION MONITORING SYSTEM ~71:Mphitso Petlele, 15 Cecil Str, Meredale, South Africa ~72: Mphitso Petlele~

2025/05850 ~ Complete ~54:A SMEAR-TYPE SEMI-SOLID SEASONING SAUCE AND ITS PREPARATION METHOD THEREOF ~71:JINZHONG UNIVERSITY, No. 199, Wenhua Street, Yuci District, Jinzhong, People's Republic of China ~72: Aiguo, LUO;Jia, ZHAO;Jianwei, HAO;Qi, YI;Xiaoxia, LIU;Zhuning, YUAN~

2025/05854 ~ Complete ~54:A METHOD, AN APPARATUS AND A COMPUTER PROGRAM PRODUCT FOR VIDEO ENCODING AND DECODING ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: ASTOLA, Pekka;GHAZNAVI YOUVALARI, Ramin;LAINEMA, Jani~ 33:FI ~31:20226106 ~32:15/12/2022

2025/05855 ~ Complete ~54:PYRIMIDINONE DERIVATIVES AS PESTICIDAL COMPOUNDS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: ADISECHAN, Ashokkumar;MAITY, Pulakesh;SHAIKH, Rizwan, Shabbir~ 33:EP ~31:22213537.8 ~32:14/12/2022;33:EP ~31:22213538.6 ~32:14/12/2022

2025/05863 ~ Complete ~54:METHOD FOR PRODUCTION OF BLUE AMMONIA ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: PER JUUL DAHL~ 33:DK ~31:PA202300042 ~32:20/01/2023

2025/05843 ~ Complete ~54:METHOD AND SYSTEM AND ELECTRONIC DEVICE FOR REGULATING COAL CHEMICAL WASTE GAS EMISSIONS BASED ON STOCHASTIC CONTROL ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: CAI Yujie;LI Deying;LI Yajie;XU Huafeng~

2025/05852 ~ Complete ~54:METHOD FOR SYNTHESIZING POLYPEPTIDES ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: FOMSGAARD, Jens;GLAFFIG, Markus;HANSEN, Anna Mette;HENNIG, Rabea;PAWLAS, Jan~ 33:EP ~31:23153084.1 ~32:24/01/2023

2025/05857 ~ Complete ~54:INSECT TOXIN GENES AND METHODS FOR THEIR USE ~71:BASF AGRICULTURAL SOLUTIONS US LLC, T.W. ALEXANDER DRIVE 2, RESEARCH TRIANGLE PARK, NC 27713, USA, United States of America ~72: BAEK, Jongmin;GRUBBS, Kirk;HAYNES, Alexina;HOBBS, Merlin Eric;JAMES, Sean;MILLER, Gabriel;ZAITSEVA, Jelena~ 33:US ~31:63/476,033 ~32:19/12/2022

2025/05867 ~ Complete ~54:MULTI-COMPONENT INTRAVAGINAL RING ~71:Cornell University, Center for Technology Licensing at Cornell University (CTL), 395 Pine Tree Road, Suite 310, ITHACA 14850, NY, USA,

United States of America;The Population Council, Inc., One Dag Hammarskjold Plaza, NEW YORK 10017, NY, USA, United States of America;The Queen's University of Belfast, University Road, Northern Ireland, BELFAST BT7 1NN, UNITED KINGDOM, United Kingdom ~72: BOYD, Peter;HADDAD, Lisa;KUMAR, Narender;LAMB, Dolores J.;MALCOLM, Karl;TELESHOVA, Natalia~ 33:US ~31:63/479,848 ~32:13/01/2023

2025/05870 ~ Complete ~54:THE INTERACTIVE HYPNOTHERAPEUTIC COMPUTER- IMPLEMENTED SYSTEM BASED ON ARTIFICIAL INTELLIGENCE AND A RELATED COMPUTER PROGRAM PRODUCT ~71:UNIWERSYTET SLASKI W KATOWICACH, ul. Bankowa 12 40-007, Poland ~72: JASIELSKI, Przemysław;MALINOWSKA, Anna Helena~ 33:EP ~31:24461581.1 ~32:04/06/2024

2025/05842 ~ Complete ~54:A TURBINE DIRECT-DRIVE CONICAL ROTOR PERMANENT MAGNET SYNCHRONOUS GENERATOR SET ~71:Hunan Institute of Engineering, No. 88 Fuxing East Road, Xiangtan City, Hunan Province, 411104, People's Republic of China ~72: Jiabao WANG;Junhui LIU;Shide CAO;Songyu YANG~

2025/05844 ~ Complete ~54:MODULATORS OF MAS-RELATED G-PROTEIN RECEPTOR X2 AND RELATED PRODUCTS AND METHODS ~71:Escient Pharmaceuticals, Inc., 10578 Science Center Drive, Suite 250, SAN DIEGO 92121, CA, USA, United States of America ~72: BOEHM, Marcus;HUANG, Liming;LANIER, Marion;MARTINBOROUGH, Esther;SAINZ, Marcos;SELFRIDGE, Brandon;YEAGER, Adam~ 33:US ~31:63/083,638 ~32:25/09/2020;33:US ~31:63/145,407 ~32:03/02/2021;33:US ~31:63/211,987 ~32:17/06/2021

2025/05851 ~ Complete ~54:METHOD FOR CULTIVATING SEEDLINGS OF DISEASE-RESISTANT BARLEY VARIETY ~71:INNER MONGOLIA ACADEMY OF AGRICULTURAL & ANIMAL HUSBANDRY SCIENCES, No. 22 Zhaojun Road, Yuquan District, People's Republic of China ~72: Batu;LI, Jianbo;LI, Tao;LIU, Jinchuan;LIU, Zhiping;LV, Ersuo;MA, Yu;NIU, Suqing;QU, Jiahui;WEN, Ruiqiang;XING, Liwei;XU, Guangxiang;XU, Jingrong;XU, Shoujun~ 33:CN ~31:2025100802829 ~32:20/01/2025

2025/05862 ~ Complete ~54:CODING METHOD, DECODING METHOD, CODE STREAM, CODER, DECODER AND STORAGE MEDIUM ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No.18 Haibin Road Wusha Chang'an, Dongguan, Guangdong, 523860, People's Republic of China ~72: FUZHENG YANG;JUNYAN HUO;MING LI;XUE HAO;YANZHUO MA~

2025/05871 ~ Complete ~54:POWER COUPLING DEVICE, POWER ASSEMBLY AND VEHICLE ~71:BYD COMPANY LIMITED, No. 3009, BYD Road, Pingshan, Shenzhen, People's Republic of China ~72: CHEN, Yong;GAO, Yuan;XIE, Lihua;YANG, Shenglin;ZHANG, Hongming~ 33:CN ~31:202310013984.6 ~32:05/01/2023

2025/05865 ~ Complete ~54:NOVEL RESISTANCE GENES ASSOCIATED WITH DISEASE RESISTANCE IN SOYBEANS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: FARMER, Andrew David;LIU, Qingli;QIN, Yinping Lucy;TAN, Xiaoping~ 33:US ~31:63/481,627 ~32:26/01/2023

2025/05868 ~ Complete ~54:SINGLE-STRANDED OLIGONUCLEOTIDE TARGETING IGF2BP3 PROTEIN AND USE THEREOF ~71:Chongqing Medical University, No. 1, Yixueyuan Road, Yuzhong District, People's Republic of China ~72: NIE Dan;TANG Ni;TANG Xin;WANG Kai~ 33:CN ~31:202310058936.9 ~32:16/01/2023

. - APPLIED ON 2025/07/10 -

2025/05906 ~ Complete ~54:TEST DEVICE FOR SIMULATING MULTI-POINT HORIZONTAL DYNAMIC LOADS AND TEST METHOD THEREOF ~71:LANZHOU UNIVERSITY OF TECHNOLOGY, No. 287, Lan Gongping

Road, Liulihe District, Lanzhou City, People's Republic of China ~72: CHENG, Rongrong;CUI, Jian;JIN, Lijia;MA, Yongjiong;WANG, Kang;WANG, Xiuli;ZHU, Zhongcheng~

2025/05879 ~ Complete ~54:CONTROL METHOD FOR OPERATING POWER OF GENERATOR SET, SYSTEM, STORAGE MEDIUM AND DEVICE ~71:TELLHOW SCI-TECH CO., LTD, Tsinghua Taihao Building, High-tech Development Zone, Nanchang City, Jiangxi Province, 330000, People's Republic of China ~72: Junjun Zhang;Pu Wan;Wei Wang~ 33:CN ~31:2024109476801 ~32:16/07/2024

2025/05877 ~ Provisional ~54:DEVICE FOR REFLECTION-FREE VIEWING OF SMARTPHONE AND WEARING IT ~71:Sergei Startchik, rue des Paquis 36, Geneva, 1201, Switzerland ~72: Sergei Startchik~

2025/05886 ~ Complete ~54:CROP NUTRITION AND FORTIFICATION COMPOSITION ~71:BHUKHANWALA, Komal, 13 Ratna, North South Road 4, Next to Sunflower Clinic, JVPD Scheme, Vile Parle West, Mumbai, Maharashtra, 400056, India ~72: BHUKHANWALA, Komal~ 33:IN ~31:202221076406 ~32:28/12/2022

2025/05890 ~ Complete ~54:DEVICES, SYSTEMS, AND METHODS FOR COOLING A NUCLEAR REACTOR WITH HYDRIDE MODERATORS ~71:Westinghouse Electric Company LLC, 1000 Westinghouse Drive, Suite 141, CRANBERRY TOWNSHIP 16066, PA, USA, United States of America ~72: HARKNESS, Alexander Whitecross~ 33:US ~31:18/153,247 ~32:11/01/2023

2025/05874 ~ Provisional ~54:HAIR DETANGLING SYSTEM ~71:DOUGLAS, André James Thomas, 260 Via Colinas, Westlake Village, United States of America ~72: DOUGLAS, André James Thomas~

2025/05876 ~ Provisional ~54:SOLAR CHARGING PROTECTION CASES FOR MOBILE DEVICES ~71:Boitumelo Matlhaba, 550 mothutlung, South Africa ~72: Boitumelo Matlhaba~

2025/05880 ~ Complete ~54:METHOD FOR SIMULTANEOUSLY INCREASING AND STABILIZING CONTENTS OF PHENOLIC GLYCOSIDES IN GASTRODIA ELATA ~71:Chongqing Academy of Chinese Materia Medica, No. 34 Nanshan Road, Huangjueya, Nan'an District, Chongqing, 400065, People's Republic of China ~72: CHEN, Gang;GUO, Lian'an;WANG, Yongde;WU, Zhen~

2025/05883 ~ Complete ~54:RABBIT HEMORRHAGIC DISEASE VIRUS VACCINE AND USES THEREOF ~71:HIPRA SCIENTIFIC, S.L.U., Avenida La Selva, 135, Spain ~72: FONTSECA PRESTA, Mireia;MONTANE GIRALT, Jordi;NADAL FULLA, Guillem~ 33:EP ~31:23382132.1 ~32:13/02/2023

2025/05884 ~ Complete ~54:SWIMMING POOL CLEANER ACCESSORY AND ASSCOCIATED METHOD ~71:SCHEEPERS, Michael Johannes, 1060 Edwards Road, Eldoraigne X1, South Africa ~72: SCHEEPERS, Michael Johannes~ 33:ZA ~31:2022/03171 ~32:16/09/2022

2025/05885 ~ Complete ~54:CROP NUTRITION COMPOSITION COMPRISING MAGNESIUM AND ZINC ~71:BHUKHANWALA, Komal, 13 Ratna, North South Road 4, Next to sunflower Clinic, JVPD Scheme, Vile Parle West, Mumbai, Maharashtra, 400056, India ~72: BHUKHANWALA, Komal~ 33:IN ~31:202221066607 ~32:18/11/2022

2025/05887 ~ Complete ~54:CROP NUTRITION AND FORTIFICATION COMPOSITION ~71:BHUKHANWALA, Komal, 13 Ratna, North South Road 4, Next to Sunflower Clinic, JVPD Scheme, Vile Parle West, Mumbai, Maharashtra, 400056, India ~72: BHUKHANWALA, Komal~ 33:IN ~31:202221076407 ~32:28/12/2022

2025/05891 ~ Complete ~54:AN ONLINE COMMERCE SYSTEM ~71:VUDOO HOLDINGS PTY LTD, Level 8 71 Gipps Street, Collingwood, Australia ~72: MORGAN, Nicholas;SWEENEY, Ryan~ 33:AU ~31:2022903929 ~32:20/12/2022

2025/05894 ~ Complete ~54:BIOHEAP LEACH ~71:ANGLO AMERICAN TECHNICAL & SUSTAINABILITY SERVICES LTD, 17 Charterhouse Street, London, EC1N 6RA, United Kingdom;ANGLO CORPORATE SERVICES SOUTH AFRICA (PTY) LTD, 144 Oxford Road, Rosebank, 2196, South Africa ~72: ANTHONY OWEN FILMER;CHRISTOPHER ALAN BILEY;RYAN NEIL VARTY~ 33:US ~31:63/436,161 ~32:30/12/2022

2025/05896 ~ Complete ~54:GASKET AND ENDBLOCK FOR SEPARATION MODULE ~71:EVOQUA WATER TECHNOLOGIES LLC, 210 Sixth Avenue, Suite 3300, Pittsburgh, Pennsylvania, 15222, United States of America ~72: AHILAN SINGARAVELU;JACOB TELEPCIAK;JONATHAN H WOOD;KRISHNA KAMATH;RAJKUMAR KRISHNAMOORTHI~ 33:US ~31:63/432,832 ~32:27/01/2023

2025/05898 ~ Provisional ~54:AGRIINTEL - COMPREHENSIVE INTELLIGENT LIVESTOCK MANAGEMENT APPLICATION FOR MODERN FARM OPERATIONS. ~71:Caiphus Olifant, 303 TygerFalls, South Africa;May Rakgama, XJV4+Q2, Luckau,Limpopo, South Africa ~72: Caiphus Olifant;May Rakgama~

2025/05895 ~ Complete ~54:TAU SPLICE-SWITCHING OLIGONUCLEOTIDE, AND PHARMACEUTICAL COMPOSITION FOR TREATING OR PREVENTING TAU-RELATED DISEASE ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda-Tsukasamachi Chiyoda-ku, Tokyo, 101-8535, Japan ~72: SHUNYA SUZUKI;TAKASHI FUTAMURA;YOHEI NUKAGA;YUKI KUNIYOSHI~ 33:JP ~31:2023-019305 ~32:10/02/2023

2025/05897 ~ Complete ~54:ANTI-CD155 ANTIBODY AND USE THEREOF ~71:HEFEI TG IMMUNOPHARMA CO., LTD., Room #208, Building 1, 4090 Susong Road, Haiheng Community, Jingkai District, Hefei, People's Republic of China ~72: CAO, Guoshuai;CHENG, Ying;LI, Yangyang;WU, Yuwei~ 33:CN ~31:202211600706.2 ~32:12/12/2022

2025/05908 ~ Complete ~54:RISK PREDICTION METHOD FOR VENTILATOR-ASSOCIATED PNEUMONIA IN MECHANICALLY VENTILATED PATIENTS ~71:GENERAL HOSPITAL OF NINGXIA MEDICAL UNIVERSITY, No. 804, Shengli Street, Xingqing District, Yinchuan City, People's Republic of China ~72: DING, Yi;LI, Guifang;MA, Rong;YANG, Hongxiao;ZHANG, Guizhen~

2025/05873 ~ Provisional ~54:MONITORING AI TOOL FOR EDUCATIONAL INSTITUTIONS ~71:Gerhardus Phillipus van der Merwe, 314 Scheiding Street, Prestige Park, South Africa ~72: Gerhardus Phillipus van der Merwe~

2025/05875 ~ Provisional ~54:SOLAR-POWERED GSM-BASED MULTI-USER FLOOD ALERT SYSTEM FOR INFORMAL AND RURAL SETTLEMENTS ~71:Thanduxolo Aubrey Mthembu, Ashton Manor Estate, South Africa ~72: Thanduxolo Aubrey Mthembu~

2025/05878 ~ Complete ~54:EROSION PILE DEVICE FOR MONITORING SOIL EROSION ON ROAD SLOPES ~71:CHENGDU UNIVERSITY OF TECHNOLOGY, No.1 Erxianqiao East Third Road, Chenghua District, Chengdu City, Sichuan Province, 610059, People's Republic of China;Dingxi Soil and Water Conservation Science Research Institute, No. 268 Yongding East Road, Anding District, Dingxi City, Gansu Province, 743000, People's Republic of China;Huaneng Xizang the Yarlung Zangbo River Hydropower Development Investment Co., Ltd, 12 Beijing West Road, Chengguan District, Lhasa, Xizang Autonomous Region, 850000, People's Republic of China;Tianfu Yongxing Laboratory, Building 12, Tianfu Haichuang Park, No. 619 Jicui Street, Tianfu New Area, Chengdu, Sichuan Province, 610213, People's Republic of China ~72: BO Yongming;CAO Longxi;CHENG Xuejun;CHENG Yixuan;LI Pingfeng;LIU Qian;MA Xinshan;OUYANG Haijun;TANG Xiaolu;WANG Shijun;WANG Shuai;WU Xiaoyi;YAN Dong;YU Haixia~

2025/05881 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING SKIN DISEASES AND PREPARATION METHOD THEREOF ~71:Ji Zhang, No. 31, Group 6, Wuweicheng Village,

Xiweizhuang Township, Daming County, Handan, Hebei, People's Republic of China ~72: Ji Zhang~ 33:CN ~31:2025107067585 ~32:29/05/2025

2025/05882 ~ Complete ~54:WINDSCREEN PROTECTOR FOR A VEHICLE ~71:COMMERCIAL AUTO COMPONENTS SA (PTY) LTD, 75 Goodwood Road, Westmead, South Africa ~72: DE RAS, Michael;THOMPSON, Richard~

2025/05888 ~ Complete ~54:VARIANTS OF CPF1 (CAS12A) WITH IMPROVED ACTIVITY ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: GENG, Lizhao;SHI, Wan;XU, Jianping~

2025/05889 ~ Complete ~54:TREATMENT AND PREVENTION OF BASAL CELL CARCINOMA WITH TOPICAL COMPOSITION COMPRISING PATIDEGIB ~71:Sol-Gel Technologies Ltd., 7 Golda Meir Street, Weizmann Science Park, NESS ZIONA 7403650, ISRAEL, Israel ~72: ARKIN, Moshe;EPSTEIN, Ervin;LEVY-HACHAM, Ofra;TANG, Jean;TOLEDANO, Ofer~ 33:US ~31:63/438,543 ~32:12/01/2023

2025/05892 ~ Complete ~54:METHODS OF DISPERSING ARIPIPRAZOLE INJECTABLE PREPARATIONS ~71:OTSUKA PHARMACEUTICAL CO., LTD., 2-9, Kanda Tsukasa-machi, Chiyoda-ku, Tokyo 1018535, Japan ~72: DAIKI KANEKO;KAZUYA NAKAMURA;YOKO SAKAMOTO~ 33:JP ~31:PCT/JP2023/010713 ~32:17/03/2023

2025/05893 ~ Complete ~54:ARGININE WASH IN PROTEIN PURIFICATION ~71:H. LUNDBECK A/S, Ottiliavej 9, 2500, Valby, Denmark ~72: ETHAN WAYNE OJALA;KATHLEEN SCHNEIDER;SAM MARZOLF~ 33:US ~31:63/387,008 ~32:12/12/2022;33:US ~31:63/591,036 ~32:17/10/2023

2025/05907 ~ Complete ~54:STEEL-ALUMINUM COMPOSITE JOINT WITH ADJUSTABLE INSTALLATION ANGLE ~71:LANZHOU UNIVERSITY OF TECHNOLOGY, No. 287, Langongping Road, Qilihe District, Lanzhou City, People's Republic of China ~72: GOU, Baolong;WANG, Renhong;WANG, Xiuli;WU, Zheng;YI, Jinran~

2025/05909 ~ Complete ~54:INTEGRATED RUNNER PLATE AND ELECTRIC PILE OF FLOW BATTERY ~71:ZHONGHAI ENERGY STORAGE TECHNOLOGY CO., LTD., Room 302, 3rd Floor, Building 1, Yard 3, Yingcai South 1st Street, South Area of Future Science City, Beiqijia Town, Changping District, People's Republic of China ~72: Chunming, XU;Jianhua, ZENG;Quan, XU;Shen, WANG;Xinkai, HUANG;Yingchun, NIU~ 33:CN ~31:202411151709.1 ~32:21/08/2024

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2025/05902 ~ Provisional ~54:MODULAR MINIATURE GOLF COURSE SET ~71:ALBERT EDWARD GRADY, 24 Williams Road, Beyerspark, South Africa ~72: ALBERT EDWARD GRADY~

2025/05922 ~ Complete ~54:PREPARATION METHOD OF POLYMER-MODIFIED ASPHALT CONCRETE FOR NORMAL-TEMPERATURE STEEL STRUCTURE PAVING ~71:Gansu Changlong Highway Maintenance Technology Research Institute Co., Ltd., 10th floor of Tower A, No. 1689, Yanbei Road, Chengguan Dist., Lanzhou, Gansu, People's Republic of China;Gansu Gonghang Travel Tianzhuang Expressway Management Co., Ltd., No. 65, Dazhong Road, Qinzhou Dist., Tianshui, Gansu, People's Republic of China;Gansu Province Transportation Planning Survey & Design Institute Co., Ltd., No. 213, Jiuquan Road, Chengguan Dist., Lanzhou, Gansu, People's Republic of China ~72: Weiping Zheng;Xianglong Feng;Xuyou Wang;Yapeng Zhang;Zhongliang Feng;Ziqi Li~

2025/05935 ~ Complete ~54:PRODRUGS OF TOPOISOMERASE I INHIBITOR FOR ADC CONJUGATIONS AND METHODS OF USE THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River

Road, Tarrytown, United States of America ~72: HAN, Amy~ 33:US ~31:63/434,230 ~32:21/12/2022;33:US ~31:63/472,064 ~32:09/06/2023

2025/05943 ~ Complete ~54:FIXED DOSE COMBINATION COMPRISING NETUPITANT AND PALONOSETRON ~71:ALFRED E. TIEFENBACHER (GMBH & CO. KG), Van-der-Smissen-Strasse 1, Germany ~72: BALASUBRAMANIAN, Velusamy;CHALAMALASETTI, Siva Ramanjaneyulu;JOSHI, Abhay Ramakant;PRATHAP, Vamshi Ramana;STAVER, Ruslan~ 33:IN ~31:202211071680 ~32:12/12/2022;33:EP ~31:23153669.9 ~32:27/01/2023

2025/05910 ~ Complete ~54:IRRIGATION AND DRAINAGE DEVICE FOR WOUND OSTOMATA ~71:Ningbo Zhenhai Longsai Medical Group, No. 51, Huancheng West Road, Zhaobaoshan Street, Zhenhai District, Ningbo City, Zhejiang Province, People's Republic of China ~72: Jing Yu~ 33:CN ~31:2025106970870 ~32:28/05/2025

2025/05920 ~ Complete ~54:VEHICULAR NETWORK USER BEHAVIOR BIG DATA MINING AND PERSONALIZED MANAGEMENT SERVICE SYSTEM ~71:Shandong University of Science and Technology, No.579, Qianwangang Road, Huangdao District, Qingdao, Shandong, People's Republic of China ~72: Yifei Chen~

2025/05932 ~ Complete ~54:CRYSTALLINE FORMS OF 6-(3-((5-CHLORO-2-METHOXYPYRIDINE)-3-SULFONAMIDO)-2,6-DIFLUOROPHENYL)-N-METHYLIMIDAZO[L,5- AJPYRAZINE-L-CARBOXAMIDE AND METHODS FOR USING THE SAME ~71:HIBERCELL, INC., 619 West 54th Street, 8th Floor, United States of America ~72: CHEN, Pengyuan;JIANG, Xiawei~ 33:CN ~31:PCT/CN2023/073337 ~32:20/01/2023

2025/05950 ~ Complete ~54:RSV F VACCINE FORMULATIONS ~71:NOVAVAX, INC., 700 Quince Orchard Road, United States of America ~72: GLENN, Gregory;PATEL, Nita;TIAN, Jing-Hui~ 33:US ~31:63/483,119 ~32:03/02/2023

2025/05900 ~ Provisional ~54:FISHING APPAREL ~71:ALTORVOX FINANCIAL MANAGEMENT (PTY) LTD., 19 On Broadway, 19 Swapo Road, Durban North, DURBAN 4051, Kwazulu Natal, SOUTH AFRICA, South Africa ~72: PRETORIUS, Keegan~

2025/05904 ~ Provisional ~54:PROCESS FOR PRODUCING AN AMORPHOUS CREATINE-CONTAINING MIXTURE ~71:NORTH-WEST UNIVERSITY, 1 Hoffman Street, Joon van Rooy Building, South Africa ~72: KRÜGER, Anneli Olga;LEMMER, Hendrik Jacobus Righard;LIEBENBERG, Wilna~

2025/05916 ~ Complete ~54:REPORTING BEAM FAILURE ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: ENESCU, Mihai;HAKOLA, Sami;KOSKELA, Timo;TURTINEN, Samuli;WU, Chunli~ 33:CN ~31:PCT/CN2018/108130 ~32:27/09/2018

2025/05930 ~ Complete ~54:METHODS AND SYSTEMS FOR BUILDING AND/OR USING A GRAPH DATA STRUCTURE ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: CHEAH, Soon-Ee;DRIDAN, Rebecca;PACE, Shannon;VANT, Kendra~ 33:AU ~31:2021903791 ~32:24/11/2021

2025/05938 ~ Complete ~54:FRACTIONAL-PEL BLOCK VECTOR FOR VIDEO CODING ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: CHEN, Chun-Chi;HUANG, Han;KARCZEWICZ, Marta;RAY, Bappaditya;SEREGIN, Vadim;WANG, Hongtao~ 33:US ~31:63/479,720 ~32:12/01/2023;33:US ~31:63/493,093 ~32:30/03/2023;33:US ~31:18/408,928 ~32:10/01/2024

2025/05941 ~ Complete ~54:MIRNAS FROM A BIOLOGICAL SAMPLE AS INDICATORS OF STRESS IN BOVINE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland

~72: BOBKOV, Maxim;CECILIANI, Fabrizio;COMINETTI ALLENDE, Ornella;DE PALO, Pasquale;LECCHI, Cristina;MAGGIOLINO, Aristide;RAYMOND, Frederic;SOUSSAN, Elodie~ 33:EP ~31:22215055.9 ~32:20/12/2022

2025/05912 ~ Complete ~54:SELF-MOVING CONVEYING AND UNLOADING EQUIPMENT FOR COAL-ASSOCIATED WASTE ROCKS ~71:Ningxia Tiandi Northwest Coal Machine Co.,Ltd, Dawukou Industrial Park, Shizuishan City, Ningxia Hui Autonomous Region, People's Republic of China ~72: CHEN Hao;LIU Zengjie;LUO Tingfeng;SHENG Weiqing;WANG Feifei;WANG Pengjia;WANG Xinghong;WANG Zhangui;WU Tao;ZHANG Fenyou;ZHOU Hailin~

2025/05925 ~ Complete ~54:MULTI-FACTOR AUTHENTICATION ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: KEAR, Nathan;TAN, Steven~ 33:AU ~31:2021900542 ~32:26/02/2021

2025/05927 ~ Complete ~54:CABLE GLAND ~71:CMP PRODUCTS LIMITED, 11 Glasshouse Street, St Peters, Newcastle upon Tyne, Tyne and Wear, NE6 1BS, United Kingdom ~72: JONATHAN MAKARI;LEE FRIZZELL~ 33:EP ~31:22201976.2 ~32:17/10/2022;33:EP ~31:23169237.7 ~32:17/10/2022

2025/05949 ~ Complete ~54:METHODS OF TREATMENT USING LOOP DIURETICS ~71:SCPHARMACEUTICALS INC., 2400 District Avenue, Suite 310, United States of America ~72: HASSMAN, Michael;MOHR, III, John F.;VANDIVER, Jennifer~ 33:US ~31:63/479,093 ~32:09/01/2023

2025/05903 ~ Provisional ~54:ANGLE INDICATOR ~71:KHAYA ENGINEERING (PTY) LIMITED, 36 Fiat Street, Aureus, South Africa;VAN ASWEGEN, Hendrik Willem Troskie, Heuwilsig 14, South Africa ~72: VAN ASWEGEN, Hendrik Willem Troskie~

2025/05955 ~ Provisional ~54:HYDROGEL WOUND DRESSING ~71:Pierre Johann van der Merwe, 42 Bergsig street, South Africa ~72: Pierre Johann van der Merwe~ 33:ZA ~31:2024/08343 ~32:05/11/2024

2025/05919 ~ Complete ~54:METHOD FOR EXTRACTING SINGLE-TREE-LEVEL LEAF AREA INDEX BASED ON UNMANNED AERIAL VEHICLE PHOTOGRAMMETRY ~71:Northwest A&F University, No.3, Taicheng Road, Yangling District, Xianyang City, Shaanxi Province, 712100, People's Republic of China ~72: CHEN Zhuo;FANG Yiding;LIU Jincheng~

2025/05933 ~ Complete ~54:IRONMAKING METHOD AND ASSOCIATED PLANT ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Dominique SERT;Eric Alain Gabriel HESS;Eric DE CONINCK;Jean-Luc Didier REBOUL;Patrick NEGRO~ 33:IB ~31:PCT/IB2023/052183 ~32:08/03/2023

2025/05951 ~ Complete ~54:METHODS AND COMPOSITIONS FOR INCREASING TOLERANCE TO ABIOTIC STRESS IN PLANTS ~71:CROP MICROCLIMATE MANAGEMENT INC., 1356 Tidalwalk Drive, Wilmington, United States of America ~72: KUPATT, Charles Christian~ 33:US ~31:63/485,931 ~32:20/02/2023

2025/05952 ~ Provisional ~54:SELF ADJUSTING GRAVY/SAUCE PERCOLATOR ~71:VAN ALTENA FAMILY TRUST, 24 ROMNEY STREET DE LA HAYE BELLVILLE, South Africa ~72: ANTHONIE GERHARDUS VAN ALTENA~

2025/05905 ~ 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~

2025/05924 ~ Complete ~54:A WIDENING STRUCTURE FOR AN EXISTING TIED-ARCH BRIDGE SPANNING OVER EXPRESSWAY ~71:Gansu Province Transportation Planning Survey & Design Institute Co., Ltd., No. 213, Jiuquan Road, Chengguan Dist., Lanzhou, Gansu, People's Republic of China;Lanzhou Institute of Technology,

No. 1, Gongjiaping East Road, Qilihe Dist., Lanzhou, Gansu, People's Republic of China;The Highway Development Center Of Gansu Province, No. 743, Nanbinhe East Road, Lanzhou, Gansu, People's Republic of China ~72: Jiusheng Wang;Qiangxing Li;Qingru Xing;Xudong Hua;Yanwei Li;Yue Jian;Yuxing Wang;Zite Li~

2025/05928 ~ Complete ~54:CABLE GLAND ~71:CMP PRODUCTS LIMITED, 11 Glasshouse Street, St Peters, Newcastle upon Tyne, Tyne and Wear, NE6 1BS, United Kingdom ~72: JONATHAN MAKARI;LEE FRIZZELL~ 33:EP ~31:22201976.2 ~32:17/10/2022;33:EP ~31:23169237.7 ~32:17/10/2022

2025/05936 ~ Complete ~54:SYSTEM FOR PRESENTING, VERIFYING AND GATHERING METRICS OF ADVERTISING CONTENT PLAYED ON SCREENS AND/OR THROUGH SPEAKERS OF COMMERCIAL ESTABLISHMENTS ~71:VITE OROZCO, José Luis, Homero 440, Mexico ~72: VITE OROZCO, José Luis~ 33:MX ~31:MX/a/2022/015861 ~32:09/12/2022

2025/05944 ~ Complete ~54:TETRAHYDROTHIOPHENE DERIVATIVE AND USE THEREOF IN MEDICINE ~71:HAISCO PHARMACEUTICAL GROUP CO., LTD., No.17, Sanxiang Avenue, Zedang Town, Shannan, Tibet, 856000, People's Republic of China ~72: CHEN ZHANG;GUANGLIN WENG;MING LEI;PANGKE YAN;TAO MOU;XIAOLI GOU;YAN YU;YAO LI;ZIYU JIAO~ 33:CN ~31:202310014893.4 ~32:06/01/2023;33:CN ~31:202310310653.9 ~32:28/03/2023;33:CN ~31:202310346142.2 ~32:03/04/2023;33:CN ~31:202310516277.9 ~32:09/05/2023;33:CN ~31:202310599616.4 ~32:25/05/2023;33:CN ~31:202310717133.X ~32:16/06/2023;33:CN ~31:202311019252.4 ~32:14/08/2023

2025/05946 ~ Complete ~54:LOW DIACETYL YEAST PROGENY STRAINS ~71:CARLSBERG A/S, J.C. Jacobsens Gade 1, 1799, København V, Denmark ~72: ISABELLA JANE LARSEN;JOCHEN FÖRSTER;MICHAEL KATZ;ROSS FENNESSY~ 33:EP ~31:23159456.5 ~32:01/03/2023

2025/05917 ~ Complete ~54:METHOD FOR PREPARING AND CONSTRUCTING RAPID REPAIR MATERIAL FOR ASPHALT CONCRETE PAVEMENT POTHOLES ~71:Gansu Changlong Highway Maintenance Technology Research Institute Co., Ltd., 10th floor of Tower A, No. 1689, Yanbei Road, Chengguan Dist., Lanzhou, Gansu, People's Republic of China;Gansu Gonghang Travel Tianzhuang Expressway Management Co., Ltd., No. 65, Dazhong Road, Qinzhou Dist., Tianshui, Gansu, People's Republic of China;Gansu Province Transportation Planning Survey & Design Institute Co., Ltd., No. 213, Jiuquan Road, Chengguan Dist., Lanzhou, Gansu, People's Republic of China ~72: Guohui Zhou;Weiping Zheng;Xianglong Feng;Xuyou Wang;Zhongliang Feng;Ziqi Li~

2025/05942 ~ Complete ~54:METHODS FOR PREVENTING OR SLOWING THE PROGRESSION OF COGNITIVE DECLINE OR IMPAIRMENT IN SUBJECTS ~71:AgeneBio, Inc., 1340 Smith Avenue, Suite 200, BALTIMORE 21209, MD, USA, United States of America;The Johns Hopkins University, 3400 North Charles Street, Ames Hall, BALTIMORE 21218, MD, USA, United States of America ~72: BAKKER, Arnold;GALLAGHER, Michela;MOHS, Richard~ 33:US ~31:63/439,035 ~32:13/01/2023;33:US ~31:63/545,348 ~32:23/10/2023

2025/05918 ~ Complete ~54:CROSSBREEDING IMPROVEMENT AND PRODUCTION METHOD FOR BEEF CATTLE ~71:Inner Mongolia Academy of Agricultural and Animal Husbandry Sciences, No. 22 Zhaojun Road, Yuquan District, Hohhot City, Inner Mongolia, 010031, People's Republic of China ~72: CHEN, Lu;JIN, Luda;LI, Hui;LIU, Lixiang;SUN, Guoquan;TIAN, Jing;TIAN, Rugang;WANG, Xiao;ZHAO, Meng~

2025/05926 ~ Complete ~54:METHODS AND SYSTEMS FOR WEB-BASED DATA PRESENTATION ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: CHUDZIŃSKI-PAWŁOWSKI, Grzegorz;CLARK, Finn;LAPWOOD, Alex;LEE, Alexander;WEI, Elise~ 33:AU ~31:2021901611 ~32:28/05/2021

2025/05931 ~ Complete ~54:MRNA ENCODING INFLUENZA VIRUS-LIKE PARTICLE ~71:SANOFI PASTEUR INC., 1 Discovery Drive, Swiftwater, United States of America ~72: BUFFIN, Sophie;LEGASTELOIS, Isabelle~ 33:EP ~31:22315327.1 ~32:15/12/2022

2025/05934 ~ Complete ~54:MODULAR SUPPORT SYSTEM FOR PROTECTIVE MESH STRUCTURES ~71:GEOBRUGG AG, Aachstrasse 11, Switzerland ~72: Manuel EICHER~ 33:DE ~31:10 2023 107 130.0 ~32:21/03/2023

2025/05940 ~ Complete ~54:MILK-DERIVED MIRNAS AS INDICATORS OF STRESS IN BOVINE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BOBKOV, Maxim;CECILIANI, Fabrizio;DE PALO, Pasquale;LECCHI, Cristina;MAGGIOLINO, Aristide;RAYMOND, Frederic;SOUSSAN, Elodie~ 33:EP ~31:22215067.4 ~32:20/12/2022

2025/05948 ~ Complete ~54:A COSMETIC COMPOSITION COMPRISING A POLYHYDROXYALKANOATE ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: CHENGDONG JI;CHENGLIANG ZUO;CHENYANG FU;SHANGCHUN YI;XINRAN ZHOU~ 33:CN ~31:PCT/CN2023/076754 ~32:17/02/2023;33:EP ~31:23161640.0 ~32:14/03/2023

2025/05954 ~ Provisional ~54:SKIN-BRIGHTENING SERUM ~71:Pierre Johann van der Merwe, 42 Bergsig street, South Africa ~72: Pierre Johann van der Merwe~ 33:ZA ~31:2024/08343 ~32:05/11/2024

2025/05901 ~ Provisional ~54:MODULAR, WATERLESS SANITATION SYSTEM ~71:BECKER, Leslie, 60 Rooikat Road, Valley Settlements, South Africa;JACKSON, Dudley John Caulton, 3 Loch Road, Bryanston, South Africa ~72: BECKER, Leslie;JACKSON, Dudley John Caulton~

2025/05899 ~ Provisional ~54:PATHNEST HOME EDITION ~71:Gerhardus Phillipus van der Merwe, 314 Scheiding Street, Prestige Park, South Africa ~72: Gerhardus Phillipus van der Merwe~

2025/05913 ~ Complete ~54:MOBILE TELESCOPIC BELT CONVEYOR FOR CONVEYING TWO DIFFERENT MATERIALS ~71:Ningxia Tiandi Northwest Coal Machine Co.,Ltd, Dawukou Industrial Park, Shizuishan City, Ningxia Hui Autonomous Region, People's Republic of China ~72: CAI Ruikun;FENG Baozhong;LAN Chunsen;MA Zhao;TONG Jianzhong;WANG Ning;WU Tao;YANG Hai;YUAN Xiaolong;ZHANG Cheng~

2025/05915 ~ Complete ~54:METHOD FOR QUANTIFYING INTERACTION OF DUAL DROUGHT STRESS ON VEGETATION ~71:NORTH CHINA UNIVERSITY OF WATER RESOURCES AND ELECTRIC POWER, No. 136 Jinshui Donglu, Zhengdong New District, Zhengzhou, Henan, People's Republic of China ~72: FENG Kai;GUO Hui;GUO Wenwen;HUANG Shengzhi;LIU Dong;WANG Fei;WEI Xiaoting;WU Haoli~

2025/05921 ~ Complete ~54:A LOW-POWER INTELLIGENT SENSOR POWER SUPPLY CIRCUIT ~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY OXBRIDGE COLLEGE, No. 1268, Haiyuan North Road, Kunming National High-tech Industrial Development Zone, High-tech Zone, Kunming City, Yunnan Province, 650101, People's Republic of China ~72: Hao Xiong;Jianbo Zhang;Kai Zhu~ 33:CN ~31:202411066499.6 ~32:05/08/2024

2025/05923 ~ Complete ~54:MINIATURE SAND-DUST COLLECTION DEVICE DEPLOYED ON WIND EROSION TOWER ~71:Xinjiang University, No.666 Shengli Road, Tianshan District, Urumqi City, Xinjiang Uygur Autonomous Region, 830046, People's Republic of China ~72: Feifei Sheng;Jianjun Yang;Ninglu Zhang;Wenli Xing;Xinyu Liu~

2025/05929 ~ Complete ~54:METHODS AND SYSTEMS FOR BUILDING AND/OR USING A GRAPH DATA STRUCTURE ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: CHEAH, Soon-Ee;DRIDAN, Rebecca;PACE, Shannon;VANT, Kendra~ 33:AU ~31:2021903791 ~32:24/11/2021

2025/05937 ~ Complete ~54:ORAL PRODUCT FOR DELIVERY OF AN ACTIVE INGREDIENT ~71:CONTRAF-NICOTEX-TOBACCO GMBH, Herbststr. 8, Germany ~72: BELZ, Markus;ELLERICHMANN, Thomas;KÖNIG, Thorsten~ 33:EP ~31:23154874.4 ~32:03/02/2023

2025/05945 ~ Complete ~54:HYDROGEN STORAGE MATERIAL AND FUEL CELL CONTAINING THE SAME ~71:PROMETHEON TECHNOLOGIES BV, Durmen 80, 9240, Zele, Belgium ~72: ZACARIAH AUSTIN HEIM~ 33:GB ~31:2303172.7 ~32:03/03/2023

2025/05911 ~ Complete ~54:HEMATITE-LOADED BIOCHAR MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF IN DEGRADING PHTHALATE ESTERS IN SOIL ~71:Shandong Academy of Agricultural Sciences, 23788 Gongye North Road, Licheng District, Jinan, Shandong, 250100, People's Republic of China ~72: BO, Luji;FU, Longyun;JING, Yongping;LI, Guangjie;LI, Yan;LIU, Zhaodong;QI, Yumeng;WANG, Yanqin;ZHANG, Yingpeng;ZHONG, Ziwen~ 33:CN ~31:202510717955.7 ~32:30/05/2025

2025/05914 ~ Complete ~54:METHOD AND DEVICE FOR CALCULATING MULTI-TIME SCALE POWER AND ENERGY BALANCE WITH MULTI-PERIOD ENERGY STORAGE ~71:Northwest Branch of State Grid Corporation of China, No.50 Middle Segment of East Huancheng Road, Beilin District, Xi’an, Shaanxi, People's Republic of China;Shaanxi Shuzhinengke Electric Power Technology Co., Ltd., No. 2399 Fengxi Avenue, Fengxi New City, Xixian New Area, Shaanxi, People's Republic of China;Xi’an Jiaotong University, No.28 Xianning West Road, Beilin District, Xi’an, Shaanxi, People's Republic of China ~72: Ding Tao;He Yuankang;Liu Xingyu;Ma Zhijie;Wang Shunqi;Yu Jinghui;Zhang Biyuan;Zhang Hongji;Zhang Xiaotong~ 33:CN ~31:2024109287481 ~32:11/07/2024

2025/05939 ~ Complete ~54:HEAT-TREATED BEVERAGE CONTAINING A FLUID GEL ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY CH-1800, SWITZERLAND, Switzerland ~72: BEZELGUES, Jean-Baptiste;BURBIDGE, Adam Stewart;DEYBER, Hélène;LIMBACH, Hans Jörg Werner;MICHEL, Sarah;RAMOS MARTIN, Patricia~ 33:EP ~31:22214808.2 ~32:20/12/2022

2025/05947 ~ Complete ~54:CROSS-COMPONENT PREDICTION IN INTER PICTURES ~71:INTERDIGITAL CE PATENT HOLDINGS, SAS, 3 rue du Colonel Moll, 75017, Paris, France ~72: FRANCK GALPIN;KARAM NASER;KEVIN REUZE;PHILIPPE BORDES~ 33:EP ~31:23305388.3 ~32:22/03/2023;33:EP ~31:23306017.7 ~32:26/06/2023

. - APPLIED ON 2025/07/14 -

2025/05970 ~ Complete ~54:ACTIVE COMPOUND ENCAPSULATION SYSTEM AND METHOD OF FORMULATING THE SAME ~71:Council for Scientific and Industrial Research, Meiring Naude Road, Brummeria, 0001, Pretoria, SOUTH AFRICA, South Africa ~72: KALOMBO, Michel Lonji;LABUSCHAGNE, Philip Wouter;SWANEPOEL, Andri~

2025/05972 ~ Complete ~54:DISPENSING SYSTEM ~71:Société des Produits Nestlé S.A., Av. Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: HENTZEL, Stéphane;NIEDERREITER, Gerhard;SMITH, Joseph Thomas Gar Jun;YERLY, Fabrice~ 33:EP ~31:22215292.8 ~32:21/12/2022

2025/05974 ~ Complete ~54:THERAPEUTIC ANTIBODIES ~71:PetMedix Ltd, The Glenn Berge Building, Building 940, Babraham Research Campus, Babraham, CAMBRIDGE CB22 3FH , CAMBRIDGESHIRE,

UNITED KINGDOM, United Kingdom ~72: ALANINE, Daniel George William;GOULART, Michelle Rodrigues~ 33:GB ~31:2300904.6 ~32:20/01/2023;33:GB ~31:2310818.6 ~32:14/07/2023

2025/05985 ~ Complete ~54:WEIGHT-ADJUSTABLE KETTLEBELL ~71:ZHEJIANG JINGLING INDUSTRY AND TRADE CO., LTD., BUILDING 2, EAST DISTRICT, NO. 10 JIANGDONG ROAD, SHUXI STREET, WUYI COUNTY, JINHUA, People's Republic of China ~72: TONG, Xiaorong;WANG, Zhi~ 33:CN ~31:202311253295.9 ~32:27/09/2023

2025/05987 ~ Provisional ~54:GREENCO GENERATOR 1-NO BIOFUELS ~71:Mr Pragasan Gopaul, No.12 Block 3,Urbika Lifestyle Estate, Cnr Riverbend & Rondebolt Road, Parkdene,, South Africa ~72: Mr Pragasan Gopaul~

2025/05958 ~ Provisional ~54:EMPLOYEE ASSISTANCE TRAINING PROGRAM ~71:107 Business Consulting, 9C Alamein Avenue, South Africa ~72: Ntokozo Magubane~

2025/05959 ~ Complete ~54:DRILLING AND CHARGING EQUIPMENT FOR UNMANNED BLASTING OPERATIONS ~71:CENTRAL SOUTH UNIVERSITY, No. 932 Lushan South Road, Yuelu District, Changsha City, Hunan Province, People's Republic of China;ZIJIN MINING GROUP COMPANY LIMITED, No. 1, Zijin Avenue, Shanghang County, Longyan City, Fujian Province, People's Republic of China ~72: CAI Xin;HUANG Mingfa;TANG Shaohui;WANG Peiyu;WANG Zhongkang;YUAN Jifeng;ZHOU Zilong~

2025/05961 ~ Complete ~54:SEED ORIENTATION SYSTEM FOR AGRICULTURAL PLANTERS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: DILLE, Mitchell, R.;STRANG, Keith, T.~ 33:US ~31:62/845,093 ~32:08/05/2019;33:US ~31:62/885,965 ~32:13/08/2019

2025/05966 ~ Complete ~54:LABORATORY CULTURE DISH HOLDER AND TRAY THEREFOR ~71:Institute of Highland Forest Science, Chinese Academy of Forestry, Bailongsi, Panlong District, Kunming, Yunnan, 650224, People's Republic of China;Yuanmou Hongrong Agricultural Technology Co., Ltd., Daduole Village, Wumao Village Committee, Wumao Township, Yuanmou County, Chuxiong Yi Autonomous Prefecture, Yunnan, 651311, People's Republic of China ~72: CHEN, Hang;DING, Weifeng;HE, Rui;LING, Xiaofei;LU, Qin;WANG, Weiwei;YANG, Jiecong;YANG, Qihong;ZHANG, Jinwen;ZHANG, Xin~

2025/05968 ~ Complete ~54:GLP1/GIP/NPY2 RECEPTOR TRIPLE AGONISTS ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: AUGUSTIN, Robert;HAEBEL, Peter Wilhelm;MADSEN, Charlotte Stahl;MURRAY, Anthony;TEUFEL, Daniel Paul~ 33:EP ~31:22215510.3 ~32:21/12/2022

2025/05971 ~ Complete ~54:NOVEL SOLUTIONS ~71:EDVINCE AB, Smile Incubator Medicon Village, Sweden ~72: EDVINSSON, Lars~ 33:GB ~31:2219470.8 ~32:21/12/2022

2025/05973 ~ Complete ~54:DISPENSING SYSTEM ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: HENTZEL, Stéphane;NIEDERREITER, Gerhard;SMITH, Joseph Thomas Gar Jun;YERLY, Fabrice~ 33:EP ~31:22215303.3 ~32:21/12/2022

2025/05953 ~ Provisional ~54:LILO-1-KIT ~71:LAWRENCE SITHOLE, 6456 MUBUBULO CRESCENT, BIRCH ACRES, EXT 40,, South Africa ~72: LAWRENCE SITHOLE ~

2025/05964 ~ Complete ~54:APPARATUS, METHOD, AND COMPUTER PROGRAM ~71:NOKIA TECHNOLOGIES OY, KARAKAARI 7, 02610 ESPOO, FINLAND, Finland ~72: KOZIOL, Dawid;KUO, Ping-Heng;SEBIRE, Benoist;TURTINEN, Samuli;WU, Chunli~

2025/05980 ~ Complete ~54:PHARMACEUTICAL COMPOSITION AND USE THEREOF ~71:GUANGZHOU JOYO PHARMATECH CO., LTD., Suite 204, Unit 3, Building 2, Yunsheng Science Park, No.11 Guangpu Middle Street, Huangpu District, Guangzhou, Guangdong, 510663, People's Republic of China;SHANGHAI JIA TAN PHARMATECH CO., LTD., 3 Floor, Building 1, No. 400 Fangchun Road, Pudong New Area, Shanghai, 201203, People's Republic of China ~72: JING LV;WEI WEI;WEI YE;YONGGUO LI~ 33:CN ~31:202211702912.4 ~32:28/12/2022;33:CN ~31:202310440700.1 ~32:21/04/2023

2025/05986 ~ Provisional ~54:ENTREPRENEURIAL EDUCATION INSURANCE ~71:Sandy Simon White, Plot 110, Rivierside Road, Farmall, South Africa ~72: Sandy White~

2025/05977 ~ Complete ~54:PAYLOAD CARRIER ~71:ANGLO AMERICAN TECHNICAL & SUSTAINABILITY SERVICES LTD, 17 Charterhouse Street, London, EC1N 6RA, United Kingdom ~72: LUKE MICHAEL SMITH~ 33:GB ~31:2218855.1 ~32:14/12/2022

2025/05963 ~ Complete ~54:METHOD FOR MULTI-FAULT DIAGNOSIS OF LITHIUM BATTERY PACK ~71:Jilin University, No. 938, West Minzhu Street, Changchun City, Jilin Province, 130026, People's Republic of China;State Grid Jilin Electric Power Research Institute, No. 4433, Renmin Street, Changchun City, Jilin Province, 130021, People's Republic of China ~72: CUI Sheng;DONG Yunchang;LI Chenggang;LI Dexin;LI Gang;LIN Runzi;MENG Xiangdong;ZHANG Haifeng;ZHANG Jiajun;ZHANG Yifu;ZHOU Shuyu~ 33:CN ~31:2024115753680 ~32:06/11/2024

2025/05965 ~ Complete ~54:A MODELING METHOD FOR TRANSACTION PATH CONVERSION AND OPTIMIZATION CONSIDERING SEQUENTIAL NETWORK LOSS COEFFICIENT CORRECTION ~71:Northwest Branch of State Grid Corporation of China, East Huancheng Road, Beilin District, Xi'an City, Shaanxi Province, People's Republic of China;Xi’an Jiaotong University, Xianning West Road, Beilin District, Xi'an City, Shaanxi Province, People's Republic of China ~72: Ding Tao;He Yuankang;Huang Yuhan;Liu Yan;Sun Xiaoqiang;Xie Liushuangfei;Yu Jinghui;Zhang Xiaotong~ 33:CN ~31:2024116932194 ~32:25/11/2024

2025/05967 ~ Complete ~54:DOSING SCHEDULE OF A SOLID DISPERSION OF A HER2 INHIBITOR ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: BAUM, Anke;CHEN, Shirlynn;GIBSON, Neil;LOTZ, Ralf Richard Hermann;NEUMUELLER, Ralph;SADROLHEFAZI, Behbood;SCHARN, Dirk;SCHLESINGER, Erica B.;SCHROETER, Lukas;SERRA FIBLA, Josep;SMITHEY, Daniel Tod;VON WANGENHEIM, Ute;WALD, Randy Joseph;WIND, Sven~ 33:US ~31:63/476,715 ~32:22/12/2022;33:US ~31:63/476,733 ~32:22/12/2022;33:EP ~31:23156485.7 ~32:14/02/2023;33:EP ~31:23156619.1 ~32:14/02/2023;33:EP ~31:23382299.8 ~32:29/03/2023;33:EP ~31:23383067.8 ~32:19/10/2023

2025/05969 ~ Complete ~54:SOLID DISPERSION OF A HER2 INHIBITOR ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: CHEN, Shirlynn;LOTZ, Ralf Richard Hermann;SCHLESINGER, Erica B.;SMITHEY, Daniel Tod;WALD, Randy Joseph~ 33:US ~31:63/476,715 ~32:22/12/2022;33:US ~31:63/476,733 ~32:22/12/2022;33:EP ~31:23156485.7 ~32:14/02/2023;33:EP ~31:23156619.1 ~32:14/02/2023;33:EP ~31:23383302.9 ~32:15/12/2023

2025/05975 ~ Complete ~54:2,6,9-TRISUBSTITUTED PURINES ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: BARLAAM, Bernard;BODNARCHUK, Michael;GHOSH, Avipsa;GOLDBERG, Frederick;HANDE, Sudhir;LICHTOR, Phillip;SHEPPECK, James;SONG, Kun;SU, Qibin;TELMESANI, Reem~ 33:US ~31:63/387,734 ~32:16/12/2022

2025/05976 ~ Complete ~54:CONTROLLED-RELEASE ORAL FORMULATIONS OF LIPOPHILIC DRUGS ~71:BSD SCIENCE LTD., 1 Achiya, 4483200, Sevut Rachel, Israel ~72: YAKOVSON, Yochai~ 33:US ~31:63/435,628 ~32:28/12/2022

2025/05978 ~ Complete ~54:UNLOADING SYSTEM ~71:ANGLO AMERICAN TECHNICAL & SUSTAINABILITY SERVICES LTD, 17 Charterhouse Street, London, EC1N 6RA, United Kingdom ~72: LUKE MICHAEL SMITH;NIGEL MARK SOLEY~ 33:GB ~31:2218841.1 ~32:14/12/2022

2025/05981 ~ Complete ~54:FLOW SYNTHESIS OF AMINES ~71:BAE SYSTEMS PLC, 6 Carlton Gardens, London, SW1Y 5AD, United Kingdom ~72: MATTHEW PAUL DIDSBURY;REBECCA ELIZABETH STEPHENS;ROJAN ALI;THOMAS WIRTH~ 33:GB ~31:2300801.4 ~32:19/01/2023;33:GB ~31:2317757.9 ~32:21/11/2023

2025/06190 ~ Provisional ~54:TENANT ARREARS MANAGEMENT PROTOCOL VIA SMART WALLET AND METER INTEGRATION ~71:Benjamin Jesse Amoils, 285 Ocean View Drive, Sea Point, South Africa;Logan Stefan Woolfson, 12 Brakrivier Avenue, Morningside Manor, South Africa ~72: Benjamin Jesse Amoils;Logan Stefan Woolfson~

2025/05960 ~ Complete ~54:METHOD FOR PREPARING MANGANESE ION-RECONSTRUCTED CS3BI2CL9 ANODE MATERIAL LATTICE AND APPLICATION THEREOF ~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 68 Wenchang Road, No. 121 Street, Kunming City, Yunnan Province, 650000, People's Republic of China ~72: CHEN Yuxiang;CHENG Fang;DONG Peng;HAN Lina;JIA Wei;LI Xue;LUO Zhongyuan;MENG Qi;WANG Ding;WANG Xianshu;WU Can;WU Hao;XIAO Jie;XING Yubo;XU Liqianyun;YUAN Shouyi;ZENG Xiaoyuan;ZHANG Chengxu;ZHANG Yanjia;ZHANG Yannan;ZHANG Yingjie;ZHANG Yiyong;ZHOU Zhongren;ZHU Ziyi~

2025/05962 ~ Complete ~54:MBR MEMBRANE MODULE WASHING SYSTEM AND METHOD ~71:Xizang Kesheng Langma Ecological Technology Co., Ltd., No. 404-2-6, Floor 4, Block A, Building 1, Yunhui Road, Core Area Management Center, Liuwu Avenue, Liuwu New District, Lhasa, Xizang Autonomous Region, 851400, People's Republic of China ~72: LIU, Liwei~

2025/05983 ~ Complete ~54:NKG2A BINDING AGENTS AND USES THEREOF ~71:EXELIXIS, INC., 1851 Harbor Bay Parkway, Alameda, California, 94502, United States of America ~72: BEE-CHENG SIM;BONNIE HAMMER;HANYING LI;JEFFREY N HIGAKI;SEEMA KANTAK~ 33:US ~31:63/441,705 ~32:27/01/2023;33:US ~31:63/512,432 ~32:07/07/2023

2025/05988 ~ Provisional ~54:VOLTAGE REDUCTION DEVICE (VRD) FOR ALTERNATING CURRENT (AC) ~71:Eugene Groenewald, 358 Spitskop Ave, South Africa ~72: Eugene Groenewald~ 33:ZA ~31:1 ~32:11/07/2025

2025/05979 ~ Complete ~54:LIGHTWEIGHT MATERIAL CARRIER ~71:ANGLO AMERICAN TECHNICAL & SUSTAINABILITY SERVICES LTD, 17 Charterhouse Street, London, EC1N 6RA, United Kingdom ~72: DANIEL CLARK FINFER;LUKE MICHAEL SMITH~ 33:GB ~31:2218856.9 ~32:14/12/2022

2025/05982 ~ Complete ~54:COMPOUNDS AND METHODS FOR TREATING, AMELIORATING, OR PREVENTING ARTHRITIS ~71:BIOHAVEN THERAPEUTICS LTD., Kingston Chambers, Road Town, Tortola, British Virgin Island, VG1110, United Kingdom;YALE UNIVERSITY, Two Whitney Avenue, New Haven, Connecticut, 06510, United States of America ~72: DAVID MCDONALD;DAVID SPIEGEL;EDWARD DERAMON;LAWRENCE R MARCIN~ 33:US ~31:63/482,486 ~32:31/01/2023;33:US ~31:63/606,161 ~32:05/12/2023

2025/05984 ~ Complete ~54:AGENTS THAT BIND TO NKG2A AND PD-L1 AND USES THEREOF ~71:EXELIXIS, INC., 1851 Harbor Bay Parkway, Alameda, California, 94502, United States of America ~72: BEE-CHENG SIM;BONNIE HAMMER;HANYING LI;JEFFREY N HIGAKI;SEEMA KANTAK~ 33:US ~31:63/441,713 ~32:27/01/2023

2025/05956 ~ Provisional ~54:AGRIINTEL - COMPREHENSIVE INTELLIGENT LIVESTOCK MANAGEMENT APPLICATION FOR MODERN FARM OPERATIONS ~71:Caiphus Olifant, 303 TygerFalls Bellville, South Africa;May Rakgama, 82 Bloemhof, South Africa ~72: Caiphus Olifant;May Rakgama~

2025/05957 ~ Provisional ~54:FLEXCHANGE ORA BRICK ~71:Thabo Ezekiel Leonard Mokoena, 3379 Block B, South Africa ~72: Thabo Ezekiel Leonard Mokoena~ 33:ZA ~31:1 ~32:01/07/2025

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2025/05989 ~ Provisional ~54:AUTO WATER FILL ~71:LAZOLA NGCWANGU, 2158 Uthando Block R, South Africa ~72: LAZOLA NGCWANGU;LAZOLA NGCWANGU~ 33:ZA ~31:2025/132989/07 ~32:14/07/2025

2025/05997 ~ Complete ~54:MULTI-SCALE INTELLIGENT MONITORING AND ANALYSIS METHOD FOR SOIL NUTRIENTS ~71:Inner Mongolia Academy of Agricultural & Animal Husbandry Sciences, No. 22 Zhaojun Road, Yuquan District, Hohhot City, Inner Mongolia Autonomous Region, 010030, People's Republic of China ~72: Bao Junwei;Guo Jia;Ji Shiyu;Sun Dele;Wang Baolin;Wu Shengnan;Wulan Tuya;Yang Chao~

2025/06006 ~ Complete ~54:SHEET-LIKE COMPOSITE FOR DIMENSIONALLY STABLE FOOD OR DRINK PRODUCT CONTAINERS WITH A BARRIER LAYER WITH FIBRES AND A RATIO OF TENSILE STRENGTHS ~71:SIG SERVICES AG, Laufengasse 18, Switzerland ~72: GÖTZ, Georg;PIEPMEYER, Manuel;SCHLOEMER, Marielle;SCHOLLENBERGER, Heinrich;SELKE, Aline~ 33:EP ~31:22213903.2 ~32:15/12/2022

2025/05999 ~ Complete ~54:A LOAD HANDLING DEVICE FOR RETRIEVING UNITS FROM A STORAGE SYSTEM ~71:Ocado Innovation Limited, Titan Court, 3 Bishops Square, Hatfield Business Park, HATFIELD AL10 9NE, HERTFORDSHIRE, UNITED KINGDOM, United Kingdom ~72: BRETT, Christopher Richard James;LINDBO, Lars Sverker Ture;STADIE, Robert Rolf;WHELAN, Matthew Robert~ 33:GB ~31:1314313.6 ~32:09/08/2013

2025/06001 ~ Complete ~54:HITCH MOUNTED BOX FOR A VEHICLE ~71:NEVELING, Nicolaas Jacobus, 23 Anglers Road, Meerensee, RICHARDSBAAI, 3901, KwaZulu Natal, SOUTH AFRICA, South Africa ~72: NEVELING, Nicolaas Jacobus~ 33:ZA ~31:2024/04198 ~32:30/05/2024

2025/06022 ~ Complete ~54:A COMPUTER-IMPLEMENTED METHOD, COMPUTER PROGRAM PRODUCT AND IMAGING SYSTEM FOR CENTERLINES COMPUTATION FROM A 3D MODEL OF A TUBULAR STRUCTURE ~71:HEMOLENS DIAGNOSTICS SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA, Legnicka 48G, Poland ~72: CUPIAL, Bartlomiej;KONOPCZYNSKI, Tomasz;MOROZ, Lukasz~ 33:EP ~31:22461648.2 ~32:22/12/2022

2025/06030 ~ Complete ~54:PERIBACILLUS ARACENENSIS BBB004 STIMULATOR OF PLANT ADAPTIVE METABOLISM AGAINST WATER STRESS, ENHANCER OF PLANT NUTRITION AND POLYPHENOL CONTENT ~71:BIOBAB R&D, S.L., Bajada a Vargas, 1. Finca, 35260, Spain ~72: GARCA-VILLARACO VELASCO, Ana;GUTIERREZ ALBANCHEZ, Enrique;GUTIERREZ MAÑERO, Francisco Javier;HORCHE TRUEBA, Ignacio;LUCAS GARCA, Jose Antonio;RAMOS SOLANO, Beatriz~ 33:ES ~31:P202231072 ~32:15/12/2022

2025/06004 ~ Complete ~54:CRYSTALLINE FORMS OF A HER2 INHIBITOR ~71:BOEHRINGER INGELHEIM INTERNATIONAL GMBH, Binger Strasse 173, Germany ~72: GAO, Joe Ju;LI, Huayu;MULDER, Jason Alan;OMAR, Thuraya Mohamed;WERTHMANN, Ulrike~ 33:US ~31:63/476,715 ~32:22/12/2022;33:US ~31:63/476,733 ~32:22/12/2022;33:EP ~31:23156485.7 ~32:14/02/2023;33:EP ~31:23156619.1 ~32:14/02/2023;33:EP ~31:23188330.7 ~32:28/07/2023;33:EP ~31:23383302.9 ~32:15/12/2023

2025/06016 ~ Complete ~54:MOULDED PULP LID ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: DANNENBERG, Christina Friederike;GALAFFU, Nicola;GARCIA CENDEJAS, Juan Francisco;NIEDERREITER, Gerhard~ 33:EP ~31:22215725.7 ~32:22/12/2022

2025/06019 ~ Complete ~54:PERMEATION ENHANCERS FOR GASTROINTESTINAL SYNTHETIC EPITHELIAL LININGS ~71:Syntis Bio, Inc., 135 Morrissey Blvd., Suite 101A, BOSTON 02125, MA, USA, United States of America ~72: DHANDA, Rahul K.;KANELLI, Maria;RIVERA-DELGADO, Edgardo;SEPICH, Luke C.;VON ERLACH, Thomas;WRIGHT, James L.;YU, Anthony C.~ 33:US ~31:63/480,921 ~32:20/01/2023;33:US ~31:63/541,238 ~32:28/09/2023

2025/06024 ~ Complete ~54:SYSTEM, METHOD, AND COMPUTER-PROGRAM PRODUCT FOR TASK-BASED SHORT-TERM MANAGEMENT OF A MINE SITE ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: ADCOCK, Daniel P.;BALL, Alexander;BROCKHURST, Russell;DOHERTY, Thomas F.;HARPOUR, John;LEWIS, Adam M.;WESLEY, Carla~ 33:US ~31:18/098,748 ~32:19/01/2023

2025/06005 ~ Complete ~54:METHOD FOR MANUFACTURING A NUCLEAR FUEL ROD CLADDING AND CORRESPONDING NUCLEAR FUEL ROD CLADDING ~71:FRAMATOME, 1 place Jean Millier, Tour Areva, France ~72: BISCHOFF, Jérémy;BUCHANAN, Karl;LEGRAND, Philippe~ 33:FR ~31:2300769 ~32:27/01/2023

2025/06023 ~ Complete ~54:COVALENT MODIFIERS OF AKT1 AND USES THEREOF ~71:TERREMOTO BIOSCIENCES, INC., 230 E Grand Ave., Suite 200, United States of America ~72: CARELLI, Jordan D.;CHU, Hang;REISBERG, Solomon H.;THOMPSON, Peter A.;YANG, Kin S.;ZAJDLIK, Adam~ 33:US ~31:63/486,884 ~32:24/02/2023;33:US ~31:63/506,224 ~32:05/06/2023;33:US ~31:63/618,164 ~32:05/01/2024

2025/06027 ~ Complete ~54:SOLID FORMS, SALTS AND POLYMORPHS OF ANTI-FIBROTIC COMPOUNDS ~71:CERTA THERAPEUTICS PTY LTD., Level 9, 31 Queen Street, Australia ~72: KELLY, Darren James;LEWIS, Gareth;MITCHELL, Lorna~ 33:AU ~31:2023900229 ~32:31/01/2023;33:US ~31:18/354,467 ~32:18/07/2023;33:US ~31:18/537,184 ~32:12/12/2023

2025/06066 ~ Provisional ~54:GENDER-INCLUSIVE MULTI-FUNCTIONAL BOXER BRIEFS WITH INTEGRATED PAD SLOT AND CONCEALED INTIMACY SUPPORT ~71:Aasia Olivier, Burn owl cres, Riverside view, South Africa;Elizabeth Badanile Jiyane, Burn owl cre, Riverside View, South Africa ~72: Elizabeth Badanile Jiyane~

2025/06007 ~ Complete ~54:MEANS AND METHODS FOR DIAGNOSING CANCER AND/OR AN ACUTE INFLAMMATORY DISEASE ~71:CARCIMUN BIOTECH GMBH, Lazarettstrasse 6, 82467, Garmisch-Partenkirchen, Germany ~72: BERTHOLD ZWERGER~ 33:EP ~31:23159693.3 ~32:02/03/2023

2025/06010 ~ Complete ~54:SYF2 ANTISENSE OLIGONUCLEOTIDES ~71:ACURASTEM INCORPORATED, 150 North Orange Grove Blvd., Suite 220, Pasadena, California 91103, United States of America ~72: JUSTIN K ICHIDA;WEN-HSUAN CHANG~ 33:US ~31:63/482,514 ~32:31/01/2023;33:US ~31:63/513,063 ~32:11/07/2023

2025/06012 ~ Complete ~54:CORE TUBE HANDLING SYSTEM WITH KICKOUT TRAY ~71:BOART LONGYEAR MANUFACTURING AND DISTRIBUTION INC., 2455 S. 3600 West, United States of America ~72: GARCIA, Katherine;LAWRENCE, William;UPMEIER, Thorsten~ 33:US ~31:63/387,828 ~32:16/12/2022

2025/06013 ~ Complete ~54:PROCESS FOR PRODUCING IRON ORE AGGLOMERATE FOR USE IN DIRECT REDUCTION REACTORS, AND AGGLOMERATE PRODUCT ~71:Vale S.A., Torre Oscar Niemeyer, Praia de Botafogo n° 186, salas 1101, 1701 e 1801, Botafogo, RIO DE JANEIRO, RJ 22250-145, BRAZIL, Brazil ~72: DE

RESENDE, Valdirene Gonzaga;DUTRA, Flávio De Castro;PARREIRA, Fabricio Vilela;PIMENTA, Felipe Viana~ 33:BR ~31:1020230002650 ~32:06/01/2023;33:BR ~31:1020230256260 ~32:06/12/2023

2025/06017 ~ Complete ~54:AUTHENTICATED MODIFICATION OF BLOCKCHAIN-BASED DATA ~71:KANOVITZ, Michael Ira, 311 North Aberdeen Street, 3rd Floor, CHICAGO 60607, IL, USA, United States of America;LOEVY, Jon Isaac, 311 North Aberdeen Street, 3rd Floor, CHICAGO 60607, IL, USA, United States of America ~72: KANOVITZ, Michael Ira;LOEVY, Jon Isaac~ 33:US ~31:63/433,818 ~32:20/12/2022;33:US ~31:63/453,201 ~32:20/03/2023

2025/05998 ~ Complete ~54:PREPARATION OF PSILOCYBIN, DIFFERENT POLYMORPHIC FORMS, INTERMEDIATES, FORMULATIONS AND THEIR USE ~71:Compass Pathfinder Limited, 3rd Floor, 1 Ashley Road, ALTRINCHAM WA14 2DT, CHESHIRE, UNITED KINGDOM, United Kingdom ~72: BROWN, Christopher;LONDESBROUGH, Derek John;MOORE, Gillian;NICHOLS, David;NORTHEN, Julian Scott;PATIL, Hemant~ 33:GB ~31:1716505.1 ~32:09/10/2017;33:GB ~31:1810588.2 ~32:28/06/2018;33:GB ~31:1816438.4 ~32:09/10/2018

2025/06003 ~ Complete ~54:COMMUNICATION DEVICE, CONTROL METHOD, AND PROGRAM ~71:CANON KABUSHIKI KAISHA, 30-2, Shimomaruko 3-chome, Ohta-ku, Japan ~72: TSUJIMARU Yuki~ 33:JP ~31:2023-012278 ~32:30/01/2023

2025/06018 ~ Complete ~54:PRODRUGS OF 4'-SUBSTITUTED NUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITORS ~71:Merck Sharp & Dohme LLC, 126 East Lincoln Avenue, RAHWAY 07065, NJ, USA, United States of America ~72: EMBREY, Mark W.;GROBLER, Jay A.;LAYTON, Mark E.;RAHEEM, Izzat T.~ 33:US ~31:63/482,133 ~32:30/01/2023;33:US ~31:63/607,595 ~32:08/12/2023

2025/06028 ~ Complete ~54:MODULAR SPRAY COOLING CABINET FOR SERVER ~71:CHINA INSTITUTE OF BUILDING STANDARD DESIGN & RESEARCH, No.9 South Shouti Road, Haidian District, People's Republic of China;TIANJIN UNIVERSITY OF COMMERCE, No. 409 Guangrong Road, Hongqiao District, People's Republic of China ~72: CHEN, Yue;HE, Wei;LIU, Shengchun;LIU, Shuailing;WU, Xiaohui;YANG, Yurong;ZHAO, Yijia~ 33:CN ~31:202211728964.9 ~32:30/12/2022

2025/05994 ~ Complete ~54:LIQUID FERTILIZER CONTAINING A SEAWEED POLYSACCHARIDE-AMINO ACID COMPLEX AND A PREPARATION METHOD THEREOF ~71:SHAANXI CITYMAX AGROTECH CO.,LTD, 300 Meters of 2 road Jiancai, Energy,Chemical, Building Materials Zone, Jian Jun Town,Yongshou County, Xianyang, Shaanxi, People's Republic of China ~72: Bin Zhang;Ying Liu;Zhuo An~

2025/05996 ~ Complete ~54:MULTIFUNCTIONAL LABOR-SAVING TRICYCLE ~71:Xuejian Wang, No. 48, Qianwang Village, Beisong Town, Lijin County, Dongying City, Shandong Province, People's Republic of China ~72: Xuejian Wang~ 33:CN ~31:2024224429183 ~32:10/10/2024

2025/06011 ~ Complete ~54:REVERSIR MOLECULES AND METHODS OF USE THEREOF ~71:ALNYLAM PHARMACEUTICALS, INC., 675 West Kendall Street, Henri A. Termeer Square, Cambridge, Massachusetts, 02142, United States of America ~72: ADAM CASTORENO;ANNE KASPER;DONALD FOSTER;HO CHOU TU;IVAN ZLATEV;MARTIN A MAIER;VASANT R JADHAV~ 33:US ~31:63/444,375 ~32:09/02/2023

2025/06020 ~ Complete ~54:CONTINUOUS CASTING EQUIPMENT ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Nicolas PIRLOT;Paul NAVEAU~ 33:IB ~31:PCT/IB2023/053252 ~32:31/03/2023

2025/05990 ~ Provisional ~54:FLUKE 59 MAX I.S ~71:R AND C INSTRUMENTATION, 1 ALOE PLACE, MILLVIEW WAY,, South Africa ~72: R AND C INSTRUMENTATION~

2025/05992 ~ Complete ~54:PASSIVE MODIFIED ATMOSPHERE PRESERVATION BAG SUITABLE FOR PRESERVATION OF HIGH CARBON DIOXIDE-TOLERANT FRUITS AND PREPARATION METHOD THEREOF ~71:Beijing Academy of Agriculture and Forestry Sciences, Xijiao Banjing, Haidian District, Beijing, 100097, People's Republic of China ~72: CHEN Luyao;WANG Baogang;XU Ranran;ZHOU Jiahua~ 33:CN ~31:2025108248732 ~32:19/06/2025

2025/06014 ~ Complete ~54:SEQUENTIAL ONE-POT SYNTHESIS FOR PREPARING 4-(4-CYANO-2-METHOXYPHENYL)-5-ETHOXY-2,8-DIMETHYL-1,4-DIHYDRO-1,6-NAPHTHYRIDINE-3-CARBOXAMIDE ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: AßMANN, Jens;NOWAKOWSKI, Marc;PLATZEK, Johannes;STORCH, Dirk~ 33:EP ~31:22214224.2 ~32:16/12/2022;33:EP ~31:23186372.1 ~32:19/07/2023

2025/06015 ~ Complete ~54:AERATED CREAMERS, PACKAGED READY-TO-USE AERATED CREAMERS, AND METHODS OF MAKING AND USING SUCH CREAMERS ~71:Société des Produits Nestlé S.A., Entre-deux-Villes, VEVEY CH-1800, SWITZERLAND, Switzerland ~72: DE FREITAS, Emanuel Jose;FU, Ningrong;STONE, James~ 33:US ~31:63/434,552 ~32:22/12/2022

2025/06021 ~ Complete ~54:REDOX FLOW BATTERY ~71:CAMBRIDGE ENTERPRISE LIMITED, The Old Schools, Trinity Lane, United Kingdom ~72: CARRINGTON, Mark;GREY, Clare Philomena;SCHERMAN, Oren;SOKOLOWSKI, Kamil~ 33:GB ~31:2300538.2 ~32:13/01/2023

2025/06025 ~ Complete ~54:A SERVICE COVER FOR INSTALLING AND REMOVING FILTER ELEMENTS OF A FILTER ASSEMBLY ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: FINN, Timothy, S.~ 33:US ~31:18/156,097 ~32:18/01/2023

2025/06029 ~ Complete ~54:METHOD, DEVICE, ELECTRONIC DEVICE, AND COMPUTER PROGRAM PRODUCT FOR SIDELOBE SUPPRESSION IN RADAR PLANAR IMAGING ~71:TECH TRAFFIC ENGINEERING GROUP CO., LTD., 8th F HaiTai Building, NO.229 Middle Of North 4th Ring Road, Haidian District, People's Republic of China;XIDIAN UNIVERSITY, Xifeng Rd, Xinglong, #226, Xi'an, People's Republic of China ~72: AN, Zeping;GUO, Xiaowei;PENG, Min;TAN, Xiaogang;TAN, Zihao;YAN, Zihang;YANG, Jicheng;ZHANG, Wei~ 33:CN ~31:202411768524.5 ~32:04/12/2024

2025/06031 ~ Provisional ~54:SMART IRON ~71:PASEKA THABISO MALISE, 6790 DON JAUN STREET, SEVILLA ESTATE, CENTURION, South Africa ~72: PASEKA THABISO MALISE~

2025/05991 ~ Provisional ~54:PORTABLE, TOOL LESS, COMPACT, SMOKELESS FIRE PIT HAVING RAPID ASSEMBLY AND DISASSEMBLY FEATURES ~71:Colin Bolland, 3390 St John's village, South Africa ~72: Colin Bolland~

2025/05993 ~ Complete ~54:SPATIAL-TEMPORAL MONITORING SYSTEM AND METHOD FOR ATMOSPHERIC CARBON DIOXIDE CONCENTRATION BASED ON UNMANNED AERIAL VEHICLE COOPERATION ~71:Chinese Academy of Geological Sciences, No.26 Baiwanzhuang Street, Xicheng District, Beijing, 100037, People's Republic of China ~72: HONG, Siqi;YAN, Dongdong;YANG, Lichao;ZHANG, Baojian;ZHANG, Xiaodan~

2025/05995 ~ Complete ~54:A PROSTATE FUMIGATION NURSING DEVICE ~71:HENAN PROVINCE HOSPITAL OF TCM, No. 6 Dongfeng Road, Zhengzhou City, Henan Province, 450000, People's Republic of China ~72: Du Junge;Liu Yu;Sun Zixue;Wei Xingxing;Wen Xiaoqiong;Zhang Xinghua~

2025/06002 ~ Complete ~54:METHOD FOR INTERVAL THRESHOLD AUDIOMETRY ~71:HEARING REHABILITATION CENTER "MELFON", LTD., Profsoyuznaya ulitsa 78, str. 1, Moscow, 117393, Russian

Federation ~72: Khanykov Vladimir Vladimirovich;Pasyuta Sergey Mikhailovich;Sirotkin Valeriy Stepanovich~ 33:RU ~31:2024136497 ~32:05/12/2024

2025/06008 ~ Complete ~54:METHOD FOR PRODUCTION OF BLUE AMMONIA ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: ANNETTE E. KRØLL JENSEN;ILAYARAJA KARUPPASAMY;PER AGGERHOLM SØRENSEN;PER JUUL DAHL~ 33:DK ~31:PA202300074 ~32:27/01/2023;33:DK ~31:PA202330430 ~32:21/12/2023

2025/06000 ~ Complete ~54:METHOD FOR SYNTHESIZING TBBPA BIS(2,3-DIBROMOPROPYL ETHER) LABELED WITH CARBON-13 ISOTOPE ~71:Qingdao University, Qingdao University, Ningxia Road, Laoshan District, Qingdao City, Shandong Province, 266000, People's Republic of China ~72: LAN Jing;SUN Yawei;WANG Yaoyao;XUE Hui;ZHANG Haili;ZHAO Zongshan~

2025/06009 ~ Complete ~54:METHODS, ARCHITECTURES, APPARATUSES AND SYSTEMS FOR CELL SELECTION AND RESELECTION PRIORITIZATION FOR SUB-BAND FULL DUPLEX ~71:INTERDIGITAL PATENT HOLDINGS, INC., 200 Bellevue Parkway, Suite 300, Wilmington, Delaware, 19809, United States of America ~72: JONGHYUN PARK;MOON-IL LEE;NAZLI KHAN BEIGI;PAUL MARINIER~ 33:US ~31:63/442,815 ~32:02/02/2023

2025/06026 ~ Complete ~54:AUTOMATIC DECK WRENCH ENGAGEMENT FOR DRILLING MACHINES ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 3501 N. FM Hwy 1417, United States of America ~72: GARCIA, Roberto;GLOVER, Rex Aaron;HUDSON, Charles Taylor;KRESCA, Michael J.;NATARAJAN, Yagneshwar~ 33:US ~31:18/156,096 ~32:18/01/2023

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2025/06051 ~ Complete ~54:METHODS OF TREATING NEUROLOGICAL DISORDERS WITH ANTI-ABETA ANTIBODIES ~71:OTHAIR PROTHENA LIMITED, 77 Sir John Rogerson's Quay Block C, Grand Canal Docklands, Ireland ~72: CAMPBELL, Brian, Michael;SWANSON, Chad, James;ZAGO, Wagner~ 33:US ~31:63/481,631 ~32:26/01/2023;33:US ~31:63/597,861 ~32:10/11/2023;33:US ~31:63/597,868 ~32:10/11/2023;33:US ~31:63/618,045 ~32:05/01/2024

2025/06055 ~ Complete ~54:EDIBLE COATINGS FOR FRESH FRUIT ~71:DEAD SEA BROMINE COMPANY LTD., P.O. Box 180, Israel ~72: ABUELHAIGA, Mohammed;BERMAN, Andrey;FRENKLACH, Alexander;FUX, Nikolay;ISRAELI, Reut~ 33:US ~31:63/440,446 ~32:23/01/2023

2025/06057 ~ Complete ~54:CESIUM CHLORIDE MOLECULAR SIEVE CATALYST AND USE THEREOF IN PREPARATION OF BIO-BASED POLYETHER POLYOLS ~71:GUANGDONG BSMC NEW MATERIAL CO., LTD, No. 5, Hanhe Avenue, New Materials Park A, Qingyuan Overseas Chinese Industrial Park, Donghua Town, Yingde City, Qingyuan, Guangdong, 513061, People's Republic of China ~72: MEILING WANG;SIMENG CHEN~ 33:CN ~31:202410827809.5 ~32:25/06/2024

2025/06058 ~ Complete ~54:FGFR3 BINDING MOLECULES AND METHODS OF USE THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: CHIA-YANG LIN;CHRISTOPHER DALY;NAGA SUHASINI AVVARU;YAN YANG;YANG SHEN~ 33:US ~31:63/479,861 ~32:13/01/2023;33:US ~31:63/587,699 ~32:03/10/2023;33:US ~31:63/590,140 ~32:13/10/2023

2025/06062 ~ Complete ~54:CONTROLLING MESH INSTALLATION ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE 33330, FINLAND, Finland ~72: FRANCKE, Totte;HANSKI, Sami;KORVA, Timo;KOUHIA, Anssi~ 33:EP ~31:23152074.3 ~32:17/01/2023

2025/06063 ~ Complete ~54:A TREAD BAND FOR A PNEUMATIC TYRE AND TYRE COMPRISING THE SAME ~71:Bridgestone Europe NV/SA, Da Vincilaan 1, ZAVENTEM B-1930, BELGIUM, Belgium ~72: ANGELOSANTO, Cecilia;ARNONE, Giuseppe;COTUGNO, Salvatore;DEL DUCA, Marco;FRESCH, Enrico;TIRONE, Antonio~

2025/06067 ~ Provisional ~54:RESILIENCE PRICING FRAMEWORK ~71:PriceRisk.io, 12 Fields crescent, South Africa ~72: Matthew Patrick Pereira~

2025/06039 ~ Complete ~54:MULTI-SOURCE DATA FUSION-BASED SPATIAL PERCEPTION DATA STORAGE METHOD AND SYSTEM ~71:Jiangsu Xinghu Technology Co., Ltd., Floor 7, No.190 Mufu South Road, Gulou District, Nanjing City, 210000, People's Republic of China ~72: Biao Liang;Chao Fang;Liangzhang Zheng;Mingyu Du;Qilong Shi;Wancheng You;Xinping Gou;Zhi Zhang~ 33:CN ~31:2024114374916 ~32:15/10/2024

2025/06046 ~ Complete ~54:METHODS OF CONTROLLING UNDESIRABLE PLANTS WITH PPO HERBICIDES AND COMBINATIONS IN HERBICIDE TOLERANT CROP PLANTS ~71:BASF AGRO B.V., VELPERPLEIN 23, 6811 AH ARNHEM, THE NETHERLANDS, Netherlands ~72: MARTINS, Bianca, Assis, Barbosa;PFENNING, Matthias~ 33:EP ~31:22216160.6 ~32:22/12/2022

2025/06049 ~ Complete ~54:HETEROARYL COMPOUNDS FOR THE CONTROL OF INVERTEBRATE PESTS ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany ~72: PEDRONI, Julia;POHLMAN, Matthias;SCHISSLER, Christoph~ 33:EP ~31:22215629.1 ~32:21/12/2022;33:EP ~31:22215631.7 ~32:21/12/2022;33:EP ~31:23170420.6 ~32:27/04/2023;33:EP ~31:23204601.1 ~32:19/10/2023

2025/06052 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION HAVING EFFICACY IN TREATING COLDS AND USE THEREOF ~71:SHIJIAZHUANG YILING PHARMACEUTICAL CO., LTD., No.238, Tianshan Street Hi-Tech, Development District Shijiazhuang, People's Republic of China ~72: JIA, Zhenhua;WU, Yiling~ 33:CN ~31:202310058976.3 ~32:17/01/2023

2025/06054 ~ Complete ~54:A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061520 ~32:15/11/2023

2025/06060 ~ Complete ~54:METHOD FOR WET AIR OXIDATION REGENERATION OF BIOMASS HYDROGENATION CATALYSTS WITH SWITCHING BETWEEN OXYGEN- AND NITROGEN-ATMOSPHERE; BIOMASS HYDROGENATION METHOD INCLUDING SUCH ~71:VIRENT, INC., 3571 Anderson Street, Madison, WI 53704, United States of America ~72: COLIN ANSON;DANA M HATCH;EDGAR STEENWINKEL;GEORGE TYSON;MATT VAN STRATEN;PAUL BLOMMEL~ 33:US ~31:63/480,607 ~32:19/01/2023

2025/06065 ~ Complete ~54:STEREOISOMER AND DEUTERATED DERIVATIVE OF PYRAZOLOQUINAZOLINE COMPOUND AND USE ~71:PHIL RIVERS TECHNOLOGY CO., LTD, Room 613, Floor 6, Building 2, Shangshuiyuan, Baijiatuan, Haidian District, BEIJING 100190, CHINA (P.R.C.), People's Republic of China ~72: NIU, Gang;PENG, Zhengshu;XUE, Yiqing;YANG, Jianfei;ZHANG, Chunming;ZHANG, Tingyan~ 33:CN ~31:202310083163.X ~32:17/01/2023;33:CN ~31:202310430237.2 ~32:20/04/2023

2025/06032 ~ Provisional ~54:SELF-ALIGNING DRIVE NUT ASSEMBLY FOR RESISTANCE-BASED EXERCISE APPARATUS ~71:Paul Steyn, 183 Hartebeesfontein, South Africa ~72: Paul Steyn~

2025/06036 ~ Complete ~54:GASTRIC CANCER ORGAN-SPECIFIC LIVER METASTASIS PREDICTION SYSTEM BASE ON MULTI-MODAL DEEP LEARNING ~71:Jiangsu Province (Suqian) Hospital, No 120 Suzhi Road, Sucheng District, Suqian City, Jiangsu Province, 223800, People's Republic of China;The First People's Hospital of Zhenjiang City, No 8 Dianli Road, Runzhou District, Zhenjiang City, Jiangsu Province, 212002, People's Republic of China ~72: Changfeng Man;Dandan Chen;Dandan Gong;Guodong Liu;Hailing Zhang;Lili Wang;Shiqi Zhang;Xiaoyan Wang;Yu Fan~

2025/06042 ~ Complete ~54:CIVIL ENGINEERING BUILDING STRUCTURE REINFORCEMENT DEVICE ~71:GUANG′AN DEVEL OPMENT & CONSTRUCTION GROUP CO.,LTD, NO. 773, HONGZHI AVENUE, GUANG'AN DISTRICT, GUANG'AN CITY, People's Republic of China;GUANG′AN VOCATIONAL & TECHNICAL COLLEGE, NO. 98, BINJIANG EAST ROAD, GUANG'AN DISTRICT, GUANG'AN CITY, People's Republic of China ~72: CHEN, Guofu;LEI, Bo;LI, Lin;SONG, Dan;ZHANG, Qin~

2025/06064 ~ Complete ~54:HYALURONIDASE ENZYME FORMULATIONS FOR HIGH VOLUME ADMINISTRATION ~71:Halozyme, Inc., 12390 El Camino Real, SAN DIEGO 92130, CA, USA, United States of America ~72: BEACHER, Scott;CONNOR, Robert J.;FRANTZ, Baylor;KANG, David W.;LEADENS, II, Todd J.;NEKOROSKI, Tara;SWANSON, Kevin;TRAVANTY, Mike~ 33:US ~31:63/476,830 ~32:22/12/2022;33:US ~31:63/485,108 ~32:15/02/2023;33:US ~31:63/507,125 ~32:09/06/2023;33:US ~31:63/516,732 ~32:31/07/2023;33:US ~31:63/518,057 ~32:07/08/2023;33:US ~31:63/520,524 ~32:18/08/2023

2025/06102 ~ Provisional ~54:SYNTRA MESH NETWORK ~71:Gerhard, 6 Katdoring Crescent, South Africa ~72: Gerhardus Jacobus Combrink~

2025/06034 ~ Complete ~54:GRAPHENE-SUPPORTED IRON-NICKEL COMPOSITE MATERIAL AND PREPARATION METHOD AND APPLICATION IN REMOVING 2,4-DICHLOROPHENOL FROM WATER THEREOF ~71:HENAN UNIVERSITY OF URBAN CONSTRUCTION, Longxiang Road, Xincheng District, Pingdingshan City, Henan Province, 467000, People's Republic of China ~72: HOU Zhipeng;HUANG Xuezheng;LIANG Feng;MENG Xian;WU Li;ZHANG Dasheng~

2025/06044 ~ Complete ~54:RADIOLABELED PSMA LIGAND COMPOUNDS AND PRECURSORS THEREOF ~71:TECHNISCHE UNIVERSITÄT MÜNCHEN, ARCISSTRAßE 21, D-80333, MÜNCHEN, GERMANY, Germany ~72: KUNERT, Jan-Philip;WESTER, Hans-Jürgen~ 33:EP ~31:22215651.5 ~32:21/12/2022

2025/06045 ~ Complete ~54:METHODS OF IDENTIFYING AND EVALUATING GENES FOR INSECT CONTROL ~71:BASF AGRICULTURAL SOLUTIONS US LLC, 2 T.W. ALEXANDER DRIVE, RESEARCH TRIANGLE PARK, NC 27709, USA, United States of America ~72: BRESSAN, Alberto;GOEBEL, Jason, Anthony;KAMAL AHMADI, Mahmoud;LENZEN, Sara, Lis, Milam;MONSERRATE, Jessica~ 33:US ~31:63/433,851 ~32:20/12/2022

2025/06047 ~ Complete ~54:METHODS OF IDENTIFYING AND EVALUATING GENES FOR INSECT CONTROL ~71:BASF AGRICULTURAL SOLUTIONS US LLC, 2 T.W. ALEXANDER DRIVE, RESEARCH TRIANGLE PARK, NC 27709, USA, United States of America ~72: KAMAL AHMADI, Mahmoud;LENZEN, Sara, Lis, Milam;LIU, Yanshun;MONSERRATE, Jessica;PETERS, Cheryl;SCHWERI, Kathryn~ 33:US ~31:63/433,569 ~32:19/12/2022

2025/06048 ~ Complete ~54:SORBENTS FOR CARBON DIOXIDE CAPTURE ~71:BASF SE, CARL BOSCH STRASSE 38, 67056 LUDWIGSHAFEN AM RHEIN, GERMANY, Germany;PQ SILICAS UK LIMITED, BANK QUAY, 4 LIVERPOOL ROAD, WARRINGTON CHESHIRE WA5 1AQ, UNITED KINGDOM, United Kingdom;THE UNIVERSITY OF NOTTINGHAM, UNIVERSITY PARK, NOTTINGHAM NG7 2RD, UNITED KINGDOM, United

Kingdom ~72: GARCIA CASTRO, Ivette;HUEFFER, Stephan;LI, Wei;MERKEL, Tobias, Maximilian;SNAPE, Colin, Edward;STEBBING, Simon Richard;STEVENS, Lee, Anthony~ 33:EP ~31:22215665.5 ~32:21/12/2022

2025/06081 ~ Complete ~54:FABRIC SOFTENERS WITH MAGNESIA ~71:DEAD SEA BROMINE COMPANY LIMITED, POB. 180, Israel ~72: ABUELHAIGA, Mohammed;AMAR, Orel;EPSTEIN ASSOR, Yelena;FRENKLACH, Alexander;FUX, Nikolay;ISRAELI, Reut;RAPAPORT, Ella;SHALEV, Itzhak~ 33:US ~31:63/503,494 ~32:22/05/2023

2025/06033 ~ Complete ~54:OPEN-PIT MINING MULTIFUNCTIONAL DRILL WITH VARIABLE-ANGLE HIGH-PRECISION DRILL ARM STRUCTURE ~71:CENTRAL SOUTH UNIVERSITY, No. 932 Lushan South Road, Yuelu District, Changsha City, Hunan Province, People's Republic of China;ZIJIN MINING GROUP COMPANY LIMITED, No. 1, Zijin Avenue, Shanghang County, Longyan City, Fujian Province, People's Republic of China ~72: CAI Xin;HUANG Mingfa;TANG Shaohui;WANG Peiyu;WANG Zhongkang;YUAN Jifeng;ZHOU Zilong~

2025/06035 ~ Complete ~54:SYSTEM AND METHOD FOR EVALUATING AND VERIFYING IN VIVO ACTIVITY OF CIRCRNAS MOLECULAR MARKERS FOR LIVER METASTASIS OF GASTRIC CANCER ~71:Jiangsu Province (Suqian) Hospital, No 120 Suzhi Road, Sucheng District, Suqian City, Jiangsu Province, 223800, People's Republic of China;The First People's Hospital of Zhenjiang City, No 8 Dianli Road, Runzhou District, Zhenjiang City, Jiangsu Province, 212002, People's Republic of China ~72: Changfeng Man;Dandan Gong;Lili Wang;Shiqi Zhang;Xiaoyan Wang;Yu Fan~

2025/06038 ~ Complete ~54:BENZOTHIADIAZINE-1,1-DIKETO-QUINOLINE DERIVATIVE, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF ~71:Shantou Polytechnic, Donghu, Haojiang District, Shantou City, Guangdong Province, 515071, People's Republic of China ~72: Delun ZHENG;Kaibo ZHENG;Mingyue FANG;Nannan LI;Tao ZONG;Xinglong CAI~

2025/06050 ~ Complete ~54:KITS AND METHODS USEFUL FOR PROGNOSING, DIAGNOSING, AND TREATING PROSTATE CANCER ~71:THE REGENTS OF THE UNIVERSITY OF MICHIGAN, 1600 Huron Parkway, Second Floor, United States of America ~72: CHINNAIYAN, Arul M.;TOSOIAN, Jeffrey J.;XIAO, Lanbo;ZHANG, Yuping~ 33:US ~31:63/442,045 ~32:30/01/2023;33:US ~31:63/446,596 ~32:17/02/2023

2025/06061 ~ Complete ~54:CONJUGATES COMPRISING A PHOSPHORUS(V) MOIETY AND A DRUG ~71:TUBULIS GMBH, Am Klopferspitz 19a, Germany ~72: HELMA-SMETS, Jonas;JAGTAP, Anil;KASPER, Marc-André;OCHTROP, Philipp;SCHUMACHER, Dominik;VOGT, Simon;WUNDER, Swetlana~ 33:EP ~31:22216022.8 ~32:22/12/2022;33:EP ~31:23193215.3 ~32:24/08/2023

2025/06037 ~ Complete ~54:METHOD AND SYSTEM FOR SPORTS POPULAR SCIENCE TEACHING BASED ON AR PRESENTATION THEREOF ~71:Ningde Normal University, No.1 Xueyuan Road, Dongqiao Economic Development Zone, Ningde City, Fujian Province, People's Republic of China ~72: HUANG Zhaoyuan~

2025/06056 ~ Complete ~54:A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061524 ~32:15/11/2023

2025/06040 ~ Complete ~54:COMPUTER NETWORK SECURITY SITUATIONAL AWARENESS AND EARLY WARNING RESPONSE SYSTEM ~71:Hubei Normal University, 11 Cihu Road, Huangshigang District, Huangshi City, Hubei Province, People's Republic of China ~72: Haodong Pan~

2025/06041 ~ Complete ~54:ARTIFICIAL INTELLIGENCE DETECTION AND REGULATION DEVICE FOR AQUACULTURE WATER QUALITY ENVIRONMENT ~71:SHIHEZI UNIVERSITY, NORTH 4TH ROAD, SHIHEZI

CITY, People's Republic of China ~72: CHEN, Junjie;CHU, Hang;DAI, Lei;LIU, Han;ZHANG, Ying;ZHAO, Jing;ZHOU, Xinyu~

2025/06043 ~ Complete ~54:METHOD FOR MANUFACTURING FLEXIBLE AND BREATHABLE THERMAL INTERFACE MATERIAL ON LARGE SCALE ~71:SHANGHAI UNIVERSITY OF MEDICINE AND HEALTH SCIENCES, Shanghai University Of Medicine And Health Sciences, No.279 Zhouzhu Road, Pudong New Area, Shanghai, 200135, People's Republic of China ~72: GUO, Jiachen;XIONG, Honglin;ZHAO, Wenlong;ZHOU, Liang;ZHOU, Shiqing~

2025/06053 ~ Complete ~54:A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061526 ~32:15/11/2023

2025/06059 ~ Complete ~54:IL12 RECEPTOR AGONISTS AND METHODS OF USE THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: AARON CHANG;JIAXI WU;SAIDA DADI-MEHMETAJ;SAMUEL DAVIS;SUPRIYA PATEL;TONG ZHANG~ 33:US ~31:63/479,839 ~32:13/01/2023

2025/06082 ~ Complete ~54:CUTTING DEVICE AND SUPPORT FOR SAME ~71:JOY GLOBAL UNDERGROUND MINING LLC, 40 Pennwood Place, Suite 100, Warrendale, United States of America ~72: REEVES, Stuart~ 33:US ~31:63/480,824 ~32:20/01/2023

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2025/06087 ~ Complete ~54:MANAGEMENT METHOD AND SYSTEM ~71:KHOZA, Bongani, 363 Dungarvan Avenue, Winchester Hills, South Africa ~72: KHOZA, Bongani~ 33:ZA ~31:2024/05508 ~32:16/07/2024

2025/06096 ~ Complete ~54:ASSEMBLY FOR CASTING MOLTEN METAL COMPRISING A SAND CASTING MOULD, A SHORT-SHROUD, AND A MOULD / SHROUD COUPLING MECHANISM, CASTING INSTALLATION AND METHOD FOR CASTING A MOLTEN METAL PART ~71:FOSECO INTERNATIONAL LIMITED, 165 Fleet Street, London, EC4A 2AE, United Kingdom ~72: DAVID HRABINA~ 33:EP ~31:23156659.7 ~32:14/02/2023

2025/06089 ~ Complete ~54:TREATMENT OF AUTOIMMUNE DISEASE ~71:AstraZeneca AB, SÖDERTÄLJE SE-151 85, SWEDEN, Sweden ~72: HUNTINGTON, Catherine Eugenie;SIMS, Gary;VOUSDEN, Katherine Ann~ 33:US ~31:63/476,066 ~32:19/12/2022

2025/06101 ~ Complete ~54:DRUG STORAGE DEVICE WITH SORTING FUNCTION ~71:JIANGSU PROVINCIAL CANCER HOSPITAL, No. 42, Baiziting, Xuanwu District, Nanjing City, People's Republic of China ~72: Wang Ruichen;Zhang Yuanyuan~

2025/06077 ~ Complete ~54:CHINESE MEDICINE COMPOSITION PILL FOR TREATING OVARIAN CYSTS AND PREPARATION METHOD THEREOF ~71:Jinlai Zhou, Room 2301, Building 12, Qiuzhu Fang, Lane 1008, Qiuzhu Road, Jiading District, Shanghai, People's Republic of China ~72: Jinlai Zhou~

2025/06086 ~ Complete ~54:DRINKING CURE BEVERAGE COMPRISING THREE COMPONENTS FOR BUILDING UP, PROMOTING AND MAINTAINING INTESTINAL HEALTH ~71:EPIKUR INTERNATIONAL AG, Grabenstrasse 2, Switzerland ~72: Franziska MOSTARD;Joost VOGELAAR~ 33:CH ~31:CH000050/2023 ~32:19/01/2023

2025/06084 ~ Complete ~54:DRUG FORMULATIONS OF (R)-1-(1-ACRYLOYLPIPERIDIN-3-YL)-4-AMINO-3-(4-PHENOXYPHENYL)-IH-IMIDAZO[4,5-CJPYRIDIN-2(3H)-ONE ~71:PRINCIPIA BIOPHARMA INC., 55 Corporate

Drive, Bridgewater, New Jersey, United States of America ~72: CALDERONE, Marilyn;VIAULT, Caroline~ 33:US ~31:63/433,824 ~32:20/12/2022

2025/06083 ~ Complete ~54:A SEPARATION DEVICE FOR SEPARATING RECYCLING FRACTIONS OF A PLURALITY OF FRAGMENTS OBTAINED FROM A HETEROGENEOUS COMPOSITE MATERIAL, AND A RELATIVE METHOD ~71:EVER ENERGY LME S.R.L., Strada Provinciale per Alife snc, Italy ~72: Renato REGGI~ 33:IT ~31:102023000002280 ~32:10/02/2023

2025/06092 ~ Complete ~54:IMPELLER FOR A PUMP AND A PUMP COMPRISING SUCH AN IMPELLER ~71:XYLEM EUROPE GMBH, Bleicheplatz 6, 8200, Schaffhausen, Switzerland ~72: JAN WIKSTRÖM~ 33:EP ~31:22214788.6 ~32:20/12/2022

2025/06070 ~ Provisional ~54:PROTECTALAB ~71:Denis Winslow, 11 elray , 6 C Roller rd spartan ext 3 kempton Park, South Africa ~72: Denis Winslow~

2025/06079 ~ Complete ~54:MANUFACTURE OF XANTHATE BY CONTINUOUS CONVERSION ~71:CARY RIDER EDWARDS, 35805 N 136th. Street, Scottsdale, Arizona, 85262, United States of America ~72: CARY RIDER EDWARDS~ 33:ZA ~31:2024/05582 ~32:18/07/2024

2025/06090 ~ Complete ~54:GIP/GLP1/GCG TRI-RECEPTOR AGONISTS AND USES THEREOF ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ABRAHAM, Milata Mary;BROWN, Robert Andrew;COSKUN, Tamer;FLORA, David Benjamin;KLEINDL, Paul Joseph;QU, Fucheng;QU, Hongchang;WALLIS, James Lincoln~ 33:US ~31:63/482,404 ~32:31/01/2023

2025/06100 ~ Complete ~54:PROCESS FOR PREPARING STABLE NANOPARTICLE AND COMPOSITION THEREOF ~71:NANOMI B.V., Zutphenstraat 51, Netherlands ~72: EDUARDO, Acarilia;FRANSSEN, Okke;KOETZIER, Henrieke Leonie;VERBIESEN, Tim Franciscus;VERWIJS, Robin~ 33:NL ~31:2033807 ~32:22/12/2022

2025/06094 ~ Complete ~54:THREE-IN-ONE BONDING AND POSITIONING DEVICE FOR PHOTOVOLTAIC SILICON RODS ~71:WUXI ZHANZHAO PRECISION MACHINERY TECHNOLOGY CO., LTD., No.12 Hehui Road, Huishan District, Wuxi, Jiangsu 214000, People's Republic of China ~72: JIANLONG ZHOU;LEI LI;LIANG LI~ 33:CN ~31:202411580100.6 ~32:07/11/2024

2025/06085 ~ Complete ~54:CD28/OX40 BISPECIFIC ANTIBODIES ~71:SANOFI, 46 avenue de la Grande Armée, France ~72: BESTE, Gerald;BRUYNOOGHE, Yanik;DESRUMEAUX, Klervi;KUEHN, Jennifer;LAHOUTE, Charlotte;LISSILAA, Rami;MASIERO, Alessandro;OEZGUER BRUEDERLE, Sevim;SURATT, Benjamin;VIGNE, Emmanuelle;VOSS, Jessica~ 33:EP ~31:22315332.1 ~32:19/12/2022;33:US ~31:63/543,351 ~32:10/10/2023

2025/06091 ~ Complete ~54:SEGMENT-BY-SEGMENT ROTATION INSTALLATION CONSTRUCTION METHOD FOR LONG-SPAN ARCH RIB IN MOUNTAINOUS AREA ~71:Road & Bridge International Co., Ltd., 8F, CRBC Mansion, Tower A, East Gate Plaza, 9 Dongzhong St., Dongcheng District, BEIJING 100027, CHINA (P.R.C.), People's Republic of China ~72: LIU, Danna;LU, Guannan;SHAO, Wenze;XIAO, Xiangrong~ 33:CN ~31:202310263726.3 ~32:12/03/2023

2025/06097 ~ Complete ~54:A COSMETIC COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: CHENGDONG JI;JINFANG WANG;SHANGCHUN YI;XINRAN ZHOU~ 33:CN ~31:PCT/CN2023/076754 ~32:17/02/2023;33:EP ~31:23161640.0 ~32:14/03/2023

2025/06088 ~ Complete ~54:QUINOLINE DERIVATIVE COMPOUNDS OR PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:Jiangsu

Carephar Pharmaceutical Co., Ltd., Building 1, No. 6, Xuzhuang Road, Xuanwu, NANJING 210000, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: QIN, Yinlin;SU, Mei;WANG, Chaolei;ZHANG, Ya~ 33:CN ~31:202310062976.0 ~32:20/01/2023

2025/06095 ~ Complete ~54:REDOX FLOW BATTERY SYSTEM AND STACK THEREOF ~71:CMBLU ENERGY AG, Industriestrasse 19, 63755, Alzenau, Germany ~72: FAHIMEH SHAHVARANFARD;MARC HENNING DIEKMANN;ULRICH STIMMING~ 33:DE ~31:10 2023 100 990.7 ~32:17/01/2023

2025/06074 ~ Complete ~54:A SYSTEM AND A METHOD TO QUANTIFY MONOCLONAL ANTIBODIES IN BIOLOGICAL MATRICES USING OPTIMIZED LC-MS/MS WITH ENHANCED SENSITIVITY AND STABILITY VALIDATION ~71:Alapati Sahithi, Associate Professor, HOD, Pharmaceutical Analysis, School of Pharmacy, Nalla Narasimha Reddy Education Society's Group of Institutions Hyderabad, Telangana, India;Dr. Ronald Darwin, Professor & Head, Pharmacology, School of Pharmaceutical Sciences, Vels Institute of Science Technology & Advanced Studies, Chennai - 600 117, Tamil Nadu, India;Haritha Reddy Nagidi, Department of Pharmaceutical Analysis, Care College of Pharmacy, Oglapur, Warangal, Telangana, India;Mylsamy Palanisamy, Associate Director – ARD, Boehringer Ingelheim Powell, 3803 Windkeep way, Powell, Ohio, United States of America;Nithin Vidiyala, Principal Scientist, Cerevel Therapeutics, 222 Jacobs St. Suite 200, Boston, Massachusetts 02141, United States of America;Patibandla Jahnavi, Assistant Professor, Department of Pharmaceutics, KVSR Siddhartha College of Pharmaceutical Sciences, Vijayawada, Andhra Pradesh, India;Pavani Sunkishala, Senior Validation Specialist, PCI Pharma Services, 23 Commerce Drive, Bedford, NH, 03110, New Hampshire, United States of America;Selvaraja Elumalai, Research Scholar, Department of Chemistry, Raffles University, Neemrana, Alwar, Rajasthan 301705, India;Venkata Lakshamana Sagar Dantinapalli, Research Scholar, Department of Chemistry, Raffles University, Neemrana, Alwar, Rajasthan 301705, India;Vinod Kumar Teriveedhi, Sr. Scientist, Department of R&D, Hikma Pharmaceuticals USA, 1809 N Wilson Rd, Columbus, Ohio 43228, United States of America ~72: Alapati Sahithi;Dr. Ronald Darwin;Haritha Reddy Nagidi;Mylsamy Palanisamy;Nithin Vidiyala;Patibandla Jahnavi;Pavani Sunkishala;Selvaraja Elumalai;Venkata Lakshamana Sagar Dantinapalli;Vinod Kumar Teriveedhi~ 33:IN ~31:202541043906 ~32:06/05/2025

2025/06076 ~ Complete ~54:A DEVICE FOR DRILLING IN ENGINEERING GEOLOGICAL EXPLORATION ~71:GEOLOGICAL SURVEY OF GANSU PROVINCE, No. 123, Hongxing Lane, Chengguan District, Lanzhou City, Gansu Province, 730000, People's Republic of China ~72: Guangbo Chu;Guoqiang Dong;Lei Xu;Pengfei Niu;Xiaobin Chang;Yibu Wu;Zhijun Bao~

2025/06080 ~ Complete ~54:SYSTEM AND METHOD FOR AIR CURTAIN ANTI-DRIFTING TESTING ~71:SHANDONG ACADEMY OF AGRICULTURAL MACHINERY SCIENCES, No.19, Sangyuan Road, Licheng District, Jinan, People's Republic of China ~72: CHEN, Gang;LI, Qinglong;MA, Yuexin;SHEN, Jingxin;SUN, Yitian;WEI, Yifei;WEI, Zhiming;ZHANG, Zhiqi~ 33:CN ~31:2024110368795 ~32:31/07/2024

2025/06068 ~ Provisional ~54:GORUNSA: INTEGRATED CLUB AND SPONSOR MANAGEMENT, EVENT RESULTS, COMMUNICATION, AND ANALYTICS PLATFORM FOR ATHLETICS SOUTH AFRICA (ASA) ~71:Justin David Maans, 17 Swartberg Street, South Africa ~72: Justin Maans~

2025/06071 ~ Provisional ~54:INTELLIGENT PLATFORM FOR DISABLED PERSONS ~71:FUJI LIFTS AND ESCALATORS SOUTHERN AFRICA PTY LTD, 955 Major Sebanze Crescent, South Africa ~72: FUJI LIFTS AND ESCALATORS SOUTHERN AFRICA PTY LTD~

2025/06078 ~ Complete ~54:HIGH-SPEED DISPERSING MACHINE FOR PRODUCING DEFOAMING AGENT ~71:FUJIAN SYSTAK ENVIRONMENTAL PROTECTION MATERIAL TECHNOLOGY CO., LTD., No.6, Area A,

Light Industry New Town, Yongchun County, Quanzhou, Fujian, 362600, People's Republic of China ~72: JINLONG YU;XIAOQING LIN;ZHIXIN LAN~ 33:CN ~31:202421957627.1 ~32:13/08/2024

2025/06093 ~ Complete ~54:SUBMERGIBLE MULTISTAGE PUMP ~71:XYLEM EUROPE GMBH, Bleicheplatz 6, 8200, Schaffhausen, Switzerland ~72: JAN WIKSTRÖM~ 33:EP ~31:22214787.8 ~32:20/12/2022

2025/06069 ~ Provisional ~54:SYSTEM AND METHOD FOR USE WITH DISTRIBUTED MODULES ~71:KOEKEMOER, ANDRÉ LOUIS, 20 CASTOR ROAD, SUNWARD PARK, South Africa ~72: KOEKEMOER, ANDRÉ LOUIS~

2025/06073 ~ Complete ~54:DIGITAL RECONSTRUCTION METHOD FOR PROGRESSIVE FAILURE TEST OF DEEP ROCK MASS BASED ON VISUAL PERCEPTION ~71:Tongji University, No. 1239 Siping Road, Yangpu District, Shanghai, 200092, People's Republic of China ~72: LIU Xianlin;LYU Xilin;SHAO Yu;XUE Dawei;ZENG Yu~

2025/06098 ~ Complete ~54:MICROSTRUCTURE FOR A FILL SHEET ~71:BRENTWOOD INDUSTRIES, INC., P.O. Box 605, Reading, Pennsylvania, 19603, United States of America ~72: BRIAN EDWARDS;NICHOLAS GAVENAS~ 33:US ~31:63/443,464 ~32:06/02/2023

2025/06099 ~ Complete ~54:USE OF SHENLING BAIZHU IN PREPARING MEDICAMENT FOR TREATING POST-HEALING SEQUELAE OF NOVEL CORONAVIRUS INFECTED PERSON ~71:BEIJING HANDIAN PHARMACEUTICAL CO., LTD., 232 Shuiyuan Road, Economic Development Zone, Miyun District, People's Republic of China ~72: LIN, Deliang~ 33:CN ~31:202211652297.0 ~32:21/12/2022

2025/06072 ~ Complete ~54:PORTABLE MASSAGE DEVICE FOR TREATING LUMBAGO ~71:THE FIRST AFFILIATED HOSPITAL OF SOOCHOW UNIVERSITY, No.899, Pinghai Road, Gusu District, Suzhou, Jiangsu, 215000, People's Republic of China ~72: BI, Guorong;Gu, Xuan;HU, Jinghui;HUO, Wenwen;JI, Fuhai;LEI, Yishan;LIU, Huayue;LIU, Linlin;MA, Zhengmin;MENG, Xiaowen;PENG, Ke;SHAN, Xisheng;XIAO, Chengjiao;YANG, Guowang;YANG, Yufan~ 33:CN ~31:202520596256.7 ~32:01/04/2025

2025/06075 ~ Complete ~54:ADDITIVE FOR REDUCING CARBON EMISSIONS FROM INTERNAL COMBUSTION ENGINES USING HYDROCARBON FUELS ~71:BLUE MARBLE SERVICES S.R.O., Dostihova 673, Czech Republic ~72: Arnost KORINEK~ 33:AP ~31:AP/P/2025/016251 ~32:04/02/2025

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2025/06108 ~ Complete ~54:HEXAGONAL DRILL STEEL WRENCH ~71:MANTELLA TRADING 310 (PTY) LIMITED, 4 Arnhem Crescent, Die Heuwel Industrial, South Africa ~72: ENGELBRECHT, Edward Hermanus;VAN DER MERWE, John~

2025/06113 ~ Complete ~54:HYDROGEN PRODUCTION METHOD, HYDROGEN PRODUCTION REACTION MODULE, AND HYDROGEN ENERGY POWER SYSTEM ~71:Foreign Language School Attached to Anhui Normal University, No. 25 Zhongshan North Road, Jinghu District, Wuhu City, Anhui Province, 241000, People's Republic of China ~72: QIAN, Lianying;XU, Liangduo~

2025/06117 ~ Complete ~54:TYPE IV BOTTLE HYDROGEN STORAGE SYSTEM FRAME ASSEMBLY AND USE METHOD THEREOF ~71:Sinoma Science & Technology(chengdu)Co.,Ltd, No.136 Pingtang East Road, Puxing Street (New Material Industry Functional Zone), Xinjin District, Chengdu, Sichuan, People's Republic of China ~72: LI Lin;LI Shihong;QI Na;ZHANG Bin;ZHOU Hong;ZHOU Yin~ 33:CN ~31:2024113007977 ~32:18/09/2024

2025/06109 ~ Complete ~54:AEROGEL FIRE EXTINGUISHING AGENT AND PREPARATION METHOD THEREOF ~71:Anhua New Materials Technology (Jiangsu) Co., Ltd., No. 6, Power Plant North Road, High-tech Industrial Development Zone, Xuzhou, People's Republic of China ~72: Chun AN~

2025/06110 ~ Complete ~54:DEVICE SUITABLE FOR SIMULATING SHEAR GEOLOGICAL EFFECTS OF DEEP STRIKE-SLIP FAULTS ~71:Geological Geophysical and Chemical Exploration Institute of Yunnan Nonferrous Metals Geological Bureau, No.232 Di 'an Lane, Tanhua Road, Panlong District, Kunming, Yunnan Province, 650051, People's Republic of China;Kunming University of Science and Technology, No.68 Wenchang Road, 121 Avenue, Wuhua District, Kunming, Yunnan Province, 650093, People's Republic of China ~72: CUI Haojie;DU Min;FANG Xueming;GONG Yaping;LI Gen;LI Jingsheng;LI Shibin;LIANG Xingxing;LIAO Yu;LIU Chunjiang;LIU Henglin;LIU Jie;PENG Yang;SUN Wei;WANG Qizhong;WANG Xin;WANG Yue;XING Ling;XIONG Jiasheng;XU Bo;YANG Qiuxia;YANG Wenming;YANG Zhiquan;YIN Xinglang;YU Xiaochuan;YUAN Chengfei;ZANG Mei;ZHENG Xinru~

2025/06118 ~ Complete ~54:FLEXIBLE MANIPULATOR BASED ON MECHANICAL SUPERSTRUCTURE ~71:Jiamusi University, No.258 Xuefu Street, Xiangyang District, Jiamusi, Heilongjiang Province, 154007, People's Republic of China ~72: Haifeng ZHANG;Jinglin LIU;Qi FANG;Weiwei PEI;Xuetong ZHU;Yuhao CUI~

2025/06122 ~ Complete ~54:APPLE GRADING OPTIMIZATION SYSTEM AND METHOD BASED ON MACHINE VISION AND LARGE MODEL INTELLIGENT DECISION-MAKING ~71:Jiaxing Vocational & Technical College, No. 547, Tongxiang Avenue, Nanhu District, Jiaxing City, Zhejiang Province, 314036, People's Republic of China ~72: Peijie Shi;Wenjun Gu;Yangfan Lu;Zhicheng Gong~

2025/06125 ~ Complete ~54:METHOD FOR CREATING A DATABASE OF TEXT RECORDS OF A HIERARCHICAL CLASSIFIER WITH SEVERAL LEVELS OF NESTING ~71:Anna Valerevna Chernyaeva, Yasnogorskaya ulitsa, d. 17, korp. 2, kv. 312, Moscow, 117463, Russian Federation ~72: Maxim Andreevich Chernyaev~ 33:RU ~31:2024128790 ~32:27/09/2024

2025/06129 ~ Complete ~54:TREATMENT OF MUSCLE RELATED DISORDERS WITH ANTI-HUMAN CACNG1 ANTIBODIES ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BAIK, Andrew;KYRATSOUS, Christos;MOLLER-TANK, Sven;PEFANIS, Evangelos;SABIN, Leah;STEC, Michael~ 33:US ~31:63/484,675 ~32:13/02/2023;33:US ~31:63/494,119 ~32:04/04/2023;33:US ~31:63/583,724 ~32:19/09/2023

2025/06136 ~ Complete ~54:METHODS FOR PRODUCING JET FUEL FROM ALCOHOLS AND MIXTURES CONTAINING ALCOHOLS ~71:Greenfield Global Inc., 20 Toronto Street, Suite 1400, TORONTO M5C 2B8, ON, CANADA, Canada ~72: DE KLERK, Arno;HALMENSCHLAGER, Cibele Melo;LINK, Felix Rudolf August~ 33:US ~31:63/440,224 ~32:20/01/2023

2025/06142 ~ Complete ~54:PRESERVATIVE AND ANTI-FUNGAL PACKAGING DEVICE ~71:TESSARA (PTY) LTD, 35 Kinghall Avenue, Epping 2, South Africa ~72: DANIEL-SWARTLAND, Chanel;KEMP, Renier;VRIES, Filicity;WILLIAMS, Elton~ 33:ZA ~31:2023/00329 ~32:09/01/2023

2025/06106 ~ Provisional ~54:OFFLINE AI-POWERED MULTILINGUAL LEARNING ASSISTANT FOR BASIC AND HIGHER EDUCATION IN LOW-RESOURCE LANGUAGE ENVIRONMENTS ~71:Thanduxolo Aubrey Mthembu, Ashton Manor Estate, South Africa ~72: Thanduxolo Aubrey Mthembu~

2025/06114 ~ Complete ~54:METHOD FOR AUTOMATICALLY SEGMENTING MEDICAL ULTRASONIC VIDEO LESIONS BASED ON DEEP LEARNING ~71:Tongji University, 1239 Siping Road, Yangpu District, Shanghai City, 200092, People's Republic of China ~72: Yuxiang Qin~

2025/06120 ~ Complete ~54:EARTHQUAKE PREDICTION DEVICE AND METHOD ~71:Xiaohong Yi, Group 2, Xiaoshiya Village, Shiyang Town, Jialing District, Nanchong City, Sichuan Province, People's Republic of China ~72: Xiaohong Yi~

2025/06127 ~ Complete ~54:AN INTELLIGENT DETECTION SYSTEM FOR MARINE DYNAMIC ENVIRONMENT BASED ON DATA ANALYSIS ~71:Hehai University, No. 1 Xikang Road, Gulou District, Nanjing City, Jiangsu Province, 210024, People's Republic of China;Jiangsu Goldwind Technology Co., Ltd., No. 5 Jinhai Road, Dafeng Economic Development Zone, Yancheng City, Jiangsu Province, 224100, People's Republic of China ~72: JI Weidong;LI Rongfu;LIAO Guanghong;TAN Hong;XU Xiaohua;XUE Wenfei~

2025/06134 ~ Complete ~54:MICROCAPSULES ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: BOCOKIC, Vladica;DENIGOT, Marion;HARRISON, Ian Michael~ 33:GB ~31:2219218.1 ~32:20/12/2022

2025/06137 ~ Complete ~54:ONCOLYTIC VIRUS AND USES THEREOF ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: BAILLAT, David;DRAKE, Charles;FUHRMANN, Steven R.;HARVILLA, Paul;LAQUERRE, Sylvie;MULVEY, Matthew;SEPULVEDA, Manuel;SHAMANNA, Raghavendra;TAMOT, Ninkka;TAYLOR, Kathryne;YAMADA, Douglas~ 33:US ~31:63/433,781 ~32:20/12/2022

2025/06103 ~ Provisional ~54:MULTI-CHANNEL VOICE AND CHAT-BASED RIDE-HAILING SYSTEM USING AI AGENTS WITH INTEGRATED FARE ESTIMATION AND PAYMENT PROCESSING ~71:Silindile Mkhize, 94 Castellano Private Estate, South Africa ~72: Silindile Mkhize~

2025/06112 ~ Complete ~54:WATER-SOLUBLE SINGLE-COMPONENT INTUMESCENT FLAME RETARDANT AND PREPARATION METHOD AND APPLICATION THEREOF ~71:FUZHOU UNIVERSITY, No. 1, Shuicheng Road, Jinjing Town Jinjiang, Quanzhou, Fujian, 362251, People's Republic of China ~72: Chen Aoxin;Jiang Shanshan;Lu Lin;Shen Kai;Yang Zhengxian~ 33:CN ~31:202510735585.X ~32:04/06/2025

2025/06121 ~ Complete ~54:FLUORESCENCE DIAFILTRATION KIT FOR DETECTING ALLERGEN-SPECIFIC IGE ANTIBODIES ~71:HANGZHOU ZHEDA DIXUN BIOLOGICAL GENE ENGINEERING CO., LTD., Rm. 201-209, Bldg. 2, No. 568 Binkang Rd., Binjiang Dist., Hangzhou, People's Republic of China ~72: CHEN, Shanshan;HE, Sicong;LEI, Wei;LI, Yan;LING, Yun;LIU, Yi;WU, Shandong;WU, Ting;WU, Zhoujie;XIAN, Moyi;ZHANG, Xinran;ZHOU, Xiandong~ 33:CN ~31:2025101307157 ~32:06/02/2025

2025/06126 ~ Complete ~54:REINFORCEMENT FRAME FOR TAILGATE OF VEHICLE ~71:MAHINDRA ELECTRIC AUTOMOBILE LIMITED, Plot No. 41/1, Mahindra Research Valley Division, Anjur PO, Mahindra World City, India ~72: BAIRAGI, Ankan;BEHERA, Debasundar;PANDURANGAN, Venugopal;S, Kavinraj;SINGH, Sukhjinder;UNADKAT, Siddharth B.;VINOTH, C~ 33:IN ~31:202441054819 ~32:18/07/2024

2025/06130 ~ Complete ~54:DIFFERENTIAL DIAGNOSING OF BIPOLAR VERSUS UNIPOLAR DISORDER IN PATIENT DURING DEPRESSION PHASES USING A TO I RNA EDITING ZNF267 GENE ~71:ALCEDIAG, Cap Gamma, 1682 Rue de la Valsiere, 34790, Grabels, France ~72: SALVETAT, Nicolas;WEISSMANN, Dinah~ 33:EP ~31:22215708.3 ~32:21/12/2022

2025/06135 ~ Complete ~54:SELECTIVE AND POTENT INHIBITORY ANTIBODIES OF MYOSTATIN ACTIVATION ~71:Scholar Rock, Inc., 301 Binney Street, 3rd Floor, CAMBRIDGE 02142, MA, USA, United States of America ~72: CANONICO, Kaleigh;CHAPRON, Christopher;COTE, Shaun M.;DANEHY, Jr., Francis;FULHAM, Melissa;HUANG, Yan;JACKSON, Justin William;KAVOSI, Mania;KUMAR, Sandeep;STREICH, Jr., Frederick C.~ 33:US ~31:63/476,908 ~32:22/12/2022;33:US ~31:63/477,552 ~32:28/12/2022;33:US ~31:63/515,267 ~32:24/07/2023;33:US ~31:63/588,081 ~32:05/10/2023

2025/06105 ~ Provisional ~54:SKIN FORMULATION ~71:THE JANDRÉ REYNECKE TRUST, Olympus, South Africa ~72: Carmen REYNECKE;Dr Aziza-Elize BRADY;Iviwe SONGO~

2025/06116 ~ Complete ~54:CLEANING LINE AND METHOD FOR AUTOMATICALLY CLEANING VEHICLE-MOUNTED GAS CYLINDERS ~71:China National Building Material Group Co., Ltd., (Block B) Building 2, Guohai Plaza, No.17 Fuxing Road, Haidian District, Beijing, People's Republic of China;Sinoma Science & Technology (Chengdu) Co., Ltd, No.136 Pingtang East Road, Puxing Street (New Material Industry Functional Zone), Xinjin District, Chengdu, Sichuan, People's Republic of China ~72: FENG Cunjiang;LI Shihong;LUO Fushun;QI Na;SU Huadong;YI Hao~ 33:CN ~31:2024119201896 ~32:25/12/2024

2025/06124 ~ Complete ~54:METHOD FOR CREATING A DATABASE OF TEXT RECORDS OF A HIERARCHICAL CLASSIFIER WITH SEVERAL LEVELS OF NESTING ~71:Anna Valerevna Chernyaeva, Yasnogarskaya ulitsa, d. 17 korp. kv. 312, Moscow, 117463, Russian Federation ~72: Maxim Andreevich Chernyaev~ 33:RU ~31:2024128789 ~32:27/09/2024

2025/06128 ~ Complete ~54:ANTI-FATIGUE PROTEIN BAR BASED ON COFFEE PROCESSING BY-PRODUCTS AND PREPARATION METHOD THEREOF ~71:Shanghai Jiao Tong University, 200240, No. 800, Dongchuan Road, Jiangchuan Road Subdistrict, Minhang District, Shanghai, People's Republic of China ~72: DENG Yun;YIN Hao;ZHONG Yu~

2025/06133 ~ Complete ~54:METHOD FOR CONSTRUCTING GAN MODEL AND METHODS FOR DATA FITTING, PHENOTYPE PREDICTION, SAMPLE AUGMENTATION, AND BREEDING BASED ON THE GAN MODEL ~71:AGRICULTURAL GENOMICS INSTITUTE AT SHENZHEN, CHINESE ACADEMY OF AGRICULTURAL SCIENCES (GUANGDONG LABORATORY OF LINGNAN MODERN AGRICULTURE SHENZHEN BRANCH), No.97 Buxin Road, Dapeng New Distric Shenzhen, People's Republic of China ~72: LIU, Yuwen;MA, Wenlong;NIU, Shiqi;ZHENG, Weigang~ 33:CN ~31:202311601745.9 ~32:27/11/2023

2025/06139 ~ Complete ~54:SELF-CARRYING CONDUCTIVE STRIP FOR A TRANSMISSION LINE ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: JOHANSSON, Stefan;JUNG, Jong Ho;SAMUELSSON, Jacob~

2025/06132 ~ Complete ~54:PIKFYVE ANTISENSE OLIGONUCLEOTIDES ~71:ACURASTEM INCORPORATED, 150 North Orange Grove Blvd., Suite 220, Pasadena, California 91103, United States of America ~72: JUSTIN K ICHIDA;WEN-HSUAN CHANG~ 33:US ~31:63/483,517 ~32:06/02/2023

2025/06138 ~ Complete ~54:SYSTEMS AND METHODS FOR STORING AND MINERALIZING CARBON DIOXIDE WITH LIME ~71:Graymont Western Canada Inc., 200-10991 Shellbridge Way, RICHMOND V6X 3C6, BRITISH COLUMBIA, CANADA, Canada ~72: HARIHARAN, Narain;ROMANIUK, Nikolas Andrei;TATE, Michael John~ 33:US ~31:63/476,348 ~32:20/12/2022;33:US ~31:63/504,974 ~32:30/05/2023;33:US ~31:63/510,595 ~32:27/06/2023

2025/06104 ~ Provisional ~54:ACNE PRONE SKIN FORMULATION ~71:THE JANDRÉ REYNECKE TRUST, Olympus, South Africa ~72: Carmen REYNECKE;Dr Aziza-Elize BRADY;Iviwe SONGO~

2025/06107 ~ Provisional ~54:CELLPHONE SELFIE GLOVE ~71:Velly Sipho Phaloane, 4669 mndeni crescent, Blue valley Golf Estate, South Africa ~72: Velly Sipho Phaloane~

2025/06111 ~ Complete ~54:SURGICAL ROOM WOUND CLEANING AND NURSING DEVICE ~71:Beijing Children's Hospital, Capital Medical University Baoding Hospital, No. 3399 Hengxiang North Street, Lianchi District, Baoding City, Hebei Province, People's Republic of China ~72: Chen Chen;Peng Ha~ 33:CN ~31:2025108469646 ~32:24/06/2025

2025/06115 ~ Complete ~54:VEHICULAR HYDROGEN-ENRICHED COMPRESSED NATURAL GAS (HCNG) SUPPLY SYSTEM AND METHOD ~71:Sinoma Science & Technology(chengdu)Co.,Ltd, No.136 Pingtang East Road, Puxing Street (New Material Industry Functional Zone), Xinjin District, Chengdu, Sichuan, People's Republic of China ~72: LIU Lei;ZHANG Bin;ZHANG Chuanghui;ZHOU Hong;ZHOU Yin~ 33:CN ~31:2024116741515 ~32:21/11/2024

2025/06119 ~ Complete ~54:A METHOD, SYSTEM, DEVICE, AND MEDIUM FOR CONSTRUCTING A CONVEX POLYHEDRON OF SINGLE-UNIT COMMITMENT ~71:Northwest Branch of State Grid Corporation of China, No.50 Middle Segment of East Huancheng Road, Beilin District, Xi'an, Shaanxi, People's Republic of China;Shaanxi Shuzhinengke Electric Power Technology Co., Ltd., No. 2399 Fengxi Avenue, Fengxi New City, Xixian New Area, Shaanxi, People's Republic of China;Xi'an Jiaotong University, No.28 Xianning West Road, Beilin District, Xi'an, Shaanxi, People's Republic of China ~72: Ding Tao;He Yuankang;Liu Xingyu;Liu Yuzheng;Ma Zhijie;Xiao Yang;Yu Jinghui;Zhang Biyuan;Zhang Hongji~ 33:CN ~31:2024110771589 ~32:07/08/2024

2025/06123 ~ Complete ~54:A METHOD OF, AND A SYSTEM FOR, STRUCTURED ENERGY MODULATION VIA RECURSIVE HARMONIC FIELD DYNAMICS ~71:VAN NIEKERK, Jaco, 20 Tantarini, 7 Callington Crescent, Parklands, South Africa ~72: VAN NIEKERK, Jaco~

2025/06131 ~ Complete ~54:SUBCUTANEOUSLY ADMINISTERED ANTIBODY-DRUG CONJUGATES FOR USE IN CANCER TREATMENT ~71:HEIDELBERG PHARMA RESEARCH GMBH, Gregor-Mendel-Strasse 22, 68526, Ladenburg, Germany ~72: ANDREAS PAHL;ANDRÁS STRASSZ;KRISTIN DECKER;MICHAEL KULKE;TORSTEN HECHLER~ 33:EP ~31:23161638.4 ~32:13/03/2023

2025/06140 ~ Complete ~54:FLOWER PRESERVATIVE AND ANTI-FUNGAL SYSTEM ~71:TESSARA (PTY) LTD, 35 Kinghall Avenue, Epping 2, South Africa ~72: DANIEL-SWARTLAND, Chanel;KEMP, Renier~ 33:ZA ~31:2023/00330 ~32:09/01/2023

2025/06141 ~ Complete ~54:CORN ENDOSPERM-BASED BIOMATERIAL SCAFFOLD ~71:RHODES UNIVERSITY, Drosty Road, GRAHAMSTOWN 6139, Eastern Cape, SOUTH AFRICA, South Africa ~72: ABRAHAMS, Garth;MAMPHEY, Nicole;PRINSLOO, Earl Adin Garard~ 33:ZA ~31:2023/01240 ~32:31/01/2023

. - APPLIED ON 2025/07/21 -

2025/06221 ~ Provisional ~54:AI-POWERED MULTILINGUAL CUSTOMER SUPPORT AND EMPLOYEE WORKFLOW SYSTEM WITH SELF-SERVICE INTEGRATION FOR MUNICIPAL OPERATIONS ~71:AMBOUR TECH (PTY)LTD, 9382 Sibanyoni Street, South Africa ~72: Lebogang Mokgothu~ 33:ZA ~31:N/A ~32:17/07/2025

2025/06146 ~ Provisional ~54:V-F-AI: SCALABLE FRAMEWORK FOR MODEL-AGNOSTIC AI BEHAVIOUR ~71:Georg Slabbert, 90 Mahogany Street Northcliff, South Africa ~72: Georg Slabbert~

2025/06154 ~ Provisional ~54:PRODUCT DISPENSING SYSTEM AND METHOD AND PRODUCT DISPENSER ~71:Phusha Donsa (Pty) Ltd, Doornhoek Farm, South Africa ~72: CONRADIE, Pieter~

2025/06161 ~ Provisional ~54:STOVE AND HEATER DEVICE ~71:DONKIE PROJECTS (PTY) LTD, Peter Mokaba Street, South Africa ~72: HARMSE, Wouter Robert;HATTINGH, Johan Bernhard;VAN DEVENTER, Quinton~

2025/06165 ~ Complete ~54:DESERT SAND-BASED HIGH-TOUGHNESS CEMENTITIOUS COMPOSITE MATERIAL AND PRODUCTION METHOD THEREOF ~71:Xinjiang Research Institute of Building Sciences

(Co.Ltd), No. 582 Xibajiahu Road, Xinshi District, Urumqi, Xinjiang Uygur Autonomous Region, 830092, People's Republic of China ~72: CHEN Ning;DONG Cun;GUO Hai;LIU Hao;NIE Jiawei;SHAN Zhihan;TIAN Panpan;YAO Haibin;ZHANG Zhong;ZHAO Huajie~

2025/06167 ~ Complete ~54:PHARMACEUTICAL FORMULATION COMPRISING SELEXIPAG AND METHOD OF PREPARATION THEREOF ~71:PHARMATHEN S.A., 6 DERVENAKION STREET, 15351 PALLINI ATTIKIS, GREECE, Greece ~72: DRAGANOUDI, Christina;KALASKANI, Anastasia;KARAVAS, Evangelos;KIZIRIDI, Christina;KOUTRI, Ioanna;KOUTRIS, Efthymios;SAMARA, Vasiliki;THEODORIDOU, Zacharoula~

2025/06172 ~ Complete ~54:AEROSOL-GENERATING ARTICLE COMPRISING A FRAME ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BOLOGNA, Matteo;DAYIOĞLU, Onur;VOLLMER, Jean-Yves~ 33:EP ~31:22216422.0 ~32:23/12/2022

2025/06181 ~ Complete ~54:CONTROLLED-ICE NUCLEATION LYOPHILIZATION PROCESS FOR BISPECIFIC MOLECULES ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: AL-BAKRI, Wisam;GANGULY, Arnab;LAM, Philippe;MAHESHAWARI, Ronak;MOHAJERANI, Farzad;RICCI, Jason;WU, Debra~ 33:US ~31:63/488,997 ~32:08/03/2023

2025/06185 ~ Complete ~54:METHODS OF PRODUCING GAMMA DELTA T CELLS ~71:ANSUN BIOPHARMA, INC., 10045 Mesa Rim Road, San Diego, California, 92121, United States of America ~72: GEORGE WANG;NANCY CHANG;WEI LIANG~ 33:US ~31:63/439,556 ~32:17/01/2023

2025/06157 ~ Provisional ~54:ECO-HAIL & SECURITY ~71:Sanele, SOWETO PROTEA GLEN, South Africa ~72: Sanele~

2025/06162 ~ Provisional ~54:ONLY AI ALLOWED A NOVEL METHOD FOR SECURING SENSITIVE EMBEDDED CODE ~71:Georg Slabbert, 90 Mahogany Street Northcliff, South Africa ~72: Georg Slabbert~

2025/06174 ~ Complete ~54:AEROSOL-GENERATING ARTICLE ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BOLOGNA, Matteo;CHASSOT, Bruno Christian Joseph;DAYIOĞLU, Onur;FARINE, Marie Rose Danielle;UTHURRY, Jerome~ 33:EP ~31:22216422.0 ~32:23/12/2022

2025/06180 ~ Complete ~54:INTELLIGENT MANAGEMENT AND CONTROL METHOD AND SYSTEM FOR PORT WATER ACCUMULATION BASED ON MULTI-SOURCE DATA FUSION ~71:TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING.M.O.T., NO. 37, NO. 2 XINGANG ROAD, People's Republic of China ~72: AI, Jia;JIA, Jianna;MA, Guoqing;PENG, Shitao;QIU, Ning;ZHANG, Kailei;ZHENG, Peng~

2025/06183 ~ Complete ~54:WELDING JAW AND METHOD FOR THERMAL WELDING ~71:Georg MENSHEN GmbH & Co. KG, Industriestraße 26, FINNENTROP 57413, GERMANY, Germany ~72: ESQUERDO FOSSAS, Martí;NOGUÉ I ARBUSÀ, Marti~ 33:ES ~31:202330124 ~32:20/02/2023

2025/06148 ~ Provisional ~54:GFS-EB-PROV-20250719 ~71:Georg Slabbert, 90 Mahogany Street Northcliff, South Africa ~72: Georg Slabbert~

2025/06151 ~ Provisional ~54:CONPERCLIDA TOOL ~71:Conperclida (Pty) Ltd, 25 Marlene Street Dawn Park Ext 2, South Africa ~72: Ntlogeleng Trevor Majoro~

2025/06153 ~ Provisional ~54:MAGEN TORQUE SYSTEM ~71:Mikateko elia mlambo, 160 firelily street countryview, South Africa ~72: Mikateko elia mlambo~

2025/06166 ~ Complete ~54:CERAMIC COPPER-CLAD PLATE AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Guangxi Technological College of Machinery and Electricity, No. 101, University

East Road, Nanning City, Guangxi Zhuang Autonomous Region, People's Republic of China ~72: LIN Xianxin;SU Qian;WANG Hongguo;WU Yonghui~ 33:CN ~31:2025104517852 ~32:11/04/2025

2025/06169 ~ Complete ~54:PIPE GROOVING DEVICE ~71:VICTAULIC COMPANY, 4901 Kesslersville Road, United States of America ~72: DOLE, Douglas R.~ 33:US ~31:62/607,340 ~32:19/12/2017;33:US ~31:62/717,086 ~32:10/08/2018

2025/06171 ~ Complete ~54:AEROSOL-GENERATING ARTICLE ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BOLOGNA, Matteo;CHASSOT, Bruno Christian Joseph;DAYIOĞLU, Onur;FARINE, Marie Rose Danielle;UTHURRY, Jerome~ 33:EP ~31:22216422.0 ~32:23/12/2022

2025/06192 ~ Provisional ~54:SHOTMASTER 360 CRICKET BATTING AID ~71:Eugene Beukes, 7 De Klerk Street, South Africa ~72: Eugene Beukes~

2025/06170 ~ Complete ~54:PIPE GROOVING DEVICE ~71:VICTAULIC COMPANY, 4901 Kesslersville Road, South Africa ~72: DOLE, Douglas R.~ 33:US ~31:62/607,340 ~32:19/12/2017;33:US ~31:62/717,086 ~32:10/08/2018

2025/06144 ~ Provisional ~54:MAES ~71:Gerhardus Phillipus van der Merwe, 314 Scheiding Street, South Africa ~72: Gerhardus Phillipus van der Merwe~

2025/06149 ~ Provisional ~54:FUNCTION SQUARED (AI): A SCALABLE FRAMEWORK FOR DYNAMIC PARAMETER ADAPTATION AND SELF-REFINEMENT IN INTELLIGENT AGENTS ~71:Georg Slabbert, 90 Mahogany Street Northcliff, South Africa ~72: Georg Slabbert~

2025/06156 ~ Provisional ~54:TALA AI: REGULATORY COMPLIANCE AND FUNDING INTELLIGENCE AGENT FOR NGO'S AND BUSINESSES ~71:Tala AI Technologies (Pty) Ltd, Office 11, 4 Sugarfarm Trail, Sunningdale, South Africa ~72: Candice Davis~

2025/06163 ~ Provisional ~54:WATER TREATMENT DEVICE AND METHOD OF USING SAME ~71:MARAIS, LYNTON JAMES, 10 Bosbok street, Hoekwil, Western Cape, South Africa ~72: MARAIS, LYNTON JAMES~

2025/06177 ~ Complete ~54:AEROSOL-GENERATING ARTICLE COMPRISING A FRAME ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BOLOGNA, Matteo;DAYIOĞLU, Onur~ 33:EP ~31:22216422.0 ~32:23/12/2022

2025/06184 ~ Complete ~54:HERBICIDAL COMPOSITIONS ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: FELLMANN, Julia;WATKINS, Melanie Jayne~ 33:EP ~31:23158615.7 ~32:24/02/2023

2025/06176 ~ Complete ~54:PROTEIN-BASED CONJUGATION CARRIERS ~71:ABLYNX NV, Technologiepark 21, Zwijnaarde, Belgium ~72: BOUTTON, Carlo;CASTEELS, Peter;FERRIER BERTHELOT, Alexandra;PONSAERTS, Raf;REED, John~ 33:US ~31:63/476,994 ~32:23/12/2022;33:EP ~31:23150688.2 ~32:09/01/2023

2025/06178 ~ Complete ~54:AEROSOL-GENERATING ARTICLE COMPRISING A FRAME ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BOLOGNA, Matteo;DAYIOĞLU, Onur;VOLLMER, Jean-Yves~ 33:EP ~31:22216422.0 ~32:23/12/2022

2025/06187 ~ Complete ~54:METHOD FOR FRACTURING ROCK MULTI-DIRECTIONALLY AND DEVICE FOR FRACTURING ROCK MULTI-DIRECTIONALLY ~71:TOHOKU UNIVERSITY, 2-1-1, Katahira, Aoba-ku, Sendai-shi, Miyagi, 9808577, Japan ~72: NORIAKI WATANABE;RYOTA GOTO;YUSUKE MUKUHIRA~

2025/06143 ~ Provisional ~54:AIACA ~71:Gerhardus Phillipus van der Merwe, 314 Scheiding Street, South Africa ~72: Gerhardus Phillipus van der Mewe~

2025/06145 ~ Provisional ~54:BATCHFORGE: BATCH-MODULAR POLYMORPHIC SYSTEM FOR DYNAMIC ROLE ADAPTATION IN INTELLIGENT AGENTS ~71:Georg Slabbert, 90 Mahogany Street Northcliff, South Africa ~72: Georg Slabbert~

2025/06155 ~ Provisional ~54:A SEALING DEVICE FOR SEALING A LEAK IN A PIPE ~71:VAN DEN BERG, Jan, Dirk, Johannes, 22 CYPRESS CRESCENT, JIM FOUCHEPARK, WELKOM, 9460, SOUTH AFRICA, South Africa ~72: VAN DEN BERG, Jan, Dirk, Johannes~

2025/06188 ~ Complete ~54:NEAR FIELD COMMUNICATION HOUSING STRUCTURE ~71:EDWARDS-MILLGATE, Kelly Ann, 7930 Beland Ave, United States of America ~72: EDWARDS-MILLGATE, Kelly Ann~ 33:US ~31:18/145,447 ~32:22/12/2022

2025/06159 ~ Provisional ~54:SUSTAINABLE SANITARY TOWEL WITH NATURAL FIBERS AND BIODEGRADABLE COMPONENTS ~71:GENTISHE MENSTRUAL CUP, FACTORY NO 31F, UNIT 12A, SESHEGO INDUSTRIAL PARK, South Africa ~72: MOKGABUDI MASHELA MARTINA~

2025/06160 ~ Provisional ~54:SYSTEMS AND METHODS FOR PROCESSING CITRULLUS LANATUS BIOMASS VIA FERMENTED AND NON-FERMENTED PATHWAYS FOR BIOACTIVE COMPOUND EXTRACTION ~71:Pierre Johann van der Merwe, 42 Bergsig street, South Africa ~72: Pierre Johann van der Merwe~ 33:ZA ~31:2024/08343 ~32:05/11/2024

2025/06152 ~ Provisional ~54:MODULAR INTERLOCKING BOTTLE CAP SYSTEM FOR EDUCATIONAL AND RECREATIONAL USE ~71:Ruth Blatt, 29 Andrew Murray Street, South Africa ~72: Ruth Blatt~

2025/06164 ~ Provisional ~54:TAX LIABILITY AND REFUNDS METHOD AND SYSTEM THEREFOR ~71:KGWATHISI, Tshepo Phillip, 204 Botshelo Street Swartruggens, South Africa ~72: KGWATHISI, Tshepo Phillip~

2025/06175 ~ Complete ~54:AEROSOL-FORMING SUBSTRATE, AEROSOL-GENERATING ARTICLE, DEVICE, AND SYSTEM ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BAUR, Guillaume Bastien;BOLOGNA, Matteo;BRIFCANI, Noori Moyad;CHASSOT, Bruno Christian Joseph;FARINE, Marie Rose Danielle;UTHURRY, Jerome~ 33:EP ~31:22216422.0 ~32:23/12/2022

2025/06179 ~ Complete ~54:DIRECTED MICRO-ECOLOGY EXPANSION APPARATUS, EXPANSION METHOD AND COMPUTER-READABLE STORAGE MEDIUM ~71:BEIJING GREEN NITROGEN BIOTECHNOLOGY CO., LTD., Room 515, 5th Floor, Incubation Building, No. 7 Fengxian Middle Road, Haidian District, Beijing, 100094, People's Republic of China;ZHONGNONG CHUANGDA (BEIJING) ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD., No. 536, Huaisha Road, Bohai Town, Huairou District, Beijing, 101499, People's Republic of China ~72: CUI, Wenjing;HOU, Zhenhua;MA, Ruiqiang;YANG, Yang;ZENG, Xianfeng~ 33:CN ~31:202310943775.1 ~32:31/07/2023

2025/06186 ~ Complete ~54:ACTIVATED PYROLYTIC CARBON BLACKS RECOVERED FROM USED TYRES AND PREVIOUSLY PURIFIED AND THE APPLICATION THEREOF IN THE PRODUCTION OF COMPOUNDS FOR THE RUBBER INDUSTRY, SUCH AS COMPONENTS FOR NEW TYRES OR FOR NEW TECHNICAL ARTICLES ~71:T.E.C. S.R.L., Via Larga, 6, 20122, Milano, Italy ~72: ANGELO PRIORI;FRANCO CATALDO~ 33:IT ~31:102022000026754 ~32:23/12/2022

2025/06189 ~ Complete ~54:CRUSHER, CRUSHER BRAKING SYSTEM, BRAKING YOKE AND BRAKING DISC FOR SUCH CRUSHER BRAKING SYSTEM ~71:METSO USA INC., 275 N. Corporate Drive, United States of America ~72: BEI DER SANDWISCH, Leon Paul Heinrich;LEUSCHEN, Guido~ 33:US ~31:18/169,930 ~32:16/02/2023

2025/06173 ~ Complete ~54:AEROSOL-GENERATING ARTICLE COMPRISING A FRAME ~71:PHILIP MORRIS PRODUCTS S.A., Quai Jeanrenaud 3, Switzerland ~72: BOLOGNA, Matteo;DAYIOĞLU, Onur~ 33:EP ~31:22216422.0 ~32:23/12/2022

2025/06182 ~ Complete ~54:ENERGY MANAGEMENT SYSTEM FOR AN INDUSTRIAL PLANT ~71:ABB Schweiz AG, Bruggerstrasse 66, BADEN 5400, SWITZERLAND, Switzerland ~72: JUHLIN, Prerna;LOSS, Theresa;RAHMAN, Moksadur;SCHLAKE, Jan-Christoph;SCHOENFISCH, Theodor;SHARIFI, Maryam;SONG, Chen;THORBURN, Stefan~

2025/06147 ~ Provisional ~54:TRUEPATH HOME ~71:Gerhardus Phillipus van der Merwe, 314 Scheiding Street, Prestige Park, South Africa ~72: Gerhardus Phillipus van der Merwe~

2025/06150 ~ Provisional ~54:OMNIA ~71:Gerhardus Phillipus van der Merwe, 314 Scheiding Street, Prestige Park, South Africa ~72: Gerhardus Phillipus van der Merwe~

2025/06158 ~ Provisional ~54:DRILLING FLUID SYSTEM ~71:STRAUSS Johanna Susanna Magdelena, 12th Avenue Wonderboom South, South Africa ~72: STRAUSS Johanna Susanna Magdelena~

2025/06168 ~ Complete ~54:HISTORY-BASED RICE PARAMETER DERIVATIONS FOR WAVEFRONT PARALLEL PROCESSING IN VIDEO CODING ~71:GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD., No. 18, Haibin Road, Wusha, Chang'an, Dongguan, Guangdong 523860, People's Republic of China ~72: HAOPING YU;YUE YU~ 33:US ~31:63/260,600 ~32:26/08/2021;33:US ~31:63/251,385 ~32:01/10/2021;33:US ~31:63/262,078 ~32:04/10/2021

. - APPLIED ON 2025/07/22 -

2025/06219 ~ Complete ~54:MANNURONATE, GULURONATE AND GULUMANNURONATE TABLET, CAPSULE OR AMPOULE FORMULATION AND METHOD FOR ITS PREPARATION ~71:FLOATING KNIGHT BIOTECH PTE. LTD., 8 Kaki Bukit Avenue 4, Singapore ~72: LALANDER, Jacob;MIRSHAFIEY, Abbas~ 33:EP ~31:22216779.3 ~32:27/12/2022

2025/06197 ~ Complete ~54:NOBLE METAL-FREE HIGH-ENTROPY CATALYST, PREPARATION METHOD, AND APPLICATION THEREOF ~71:KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 68 Wenchang Road, No. 121 Street, Kunming City, Yunnan Province, 650000, People's Republic of China ~72: LI Xue;LIU Feng;QIN Shaojie;ZHANG Yiyong;ZHU Ziyi~

2025/06203 ~ Complete ~54:TRADITIONAL CHINESE MEDICINE COMPOSITION FOR REDUCING BLOOD PRESSURE AND PREPARATION METHOD THEREFOR AND PHARMACEUTICAL USE THEREOF ~71:The First Affiliated Hospital of Henan University of CM, No. 19 Renmin Road, Jinshui District, Zhengzhou City, Henan, 450046, People's Republic of China ~72: DU Mingyuan;LI Xiaohui;LI Yizhuo;LIU Gang;SUN Yanqin;XU Yazhou;YAN Haifeng;YAN Kuipo;ZHU Cuiling~ 33:CN ~31:2023118151927 ~32:27/12/2023

2025/06204 ~ Complete ~54:METHOD FOR ONLINE MONITORING AND INTELLIGENT CONTROL OF PORT WATER SYSTEM ~71:TIANJIN RESEARCH INSTITUTE FOR WATER TRANSPORT ENGINEERING.M.O.T., NO. 37, NO. 2 XINGANG ROAD, People's Republic of China ~72: DONG, Chunming;JIA, Jianna;MA, Guoqiang;PENG, Shitao;QIU, Ning;ZHANG, Kailei;ZHENG, Peng~

2025/06210 ~ Complete ~54:UWB RUNWAY INCURSION DETECTION AND WARNING SYSTEM ~71:ADB Safegate BV, Leuvensesteenweg 585, ZAVENTEM 1930, BELGIUM, Belgium ~72: JELU, André;MENÈ, Luca;ROSATI, Stefano~ 33:EP ~31:23152318.4 ~32:18/01/2023;33:EP ~31:23152319.2 ~32:18/01/2023

2025/06213 ~ Complete ~54:ANTI-HER2 ANTIBODY-DRUG CONJUGATE FOR TREATING BREAST CANCER ~71:JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., No.7 Kunlunshan Road, Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China;SHANGHAI SHENGDI PHARMACEUTICAL CO., LTD, No.1288 Haike Road, Zhangjiang Town, Pudong New Area, Shanghai 201210, People's Republic of China ~72: QUANREN WANG~ 33:CN ~31:202310066299.X ~32:19/01/2023;33:CN ~31:202310121195.4 ~32:15/02/2023

2025/06201 ~ Complete ~54:METHOD FOR IDENTIFYING CRITICAL RISK ZONE OF NON-POINT SOURCE POLLUTION IN URBAN AREA BASED ON PCSWMM MODEL ~71:Beijing Normal University, No. 19, Xinjiekou Outer Street, Haidian District, Beijing City, 100088, People's Republic of China ~72: Hu Jing;Li Chunhui;Liu Qiang;Wang Xuan;Yi Yujun~ 33:CN ~31:2025108547950 ~32:24/06/2025

2025/06200 ~ Complete ~54:MODULAR PARTITION WALL SYSTEM WITH MORTISE-AND-TENON TELESCOPIC KEEL AND CONCEALED PIPE INTEGRATION ~71:Heilongjiang Institute of Construction Technology, No. 999 Xueyuan Road, Hulan District, Harbin, Heilongjiang Province, 150025, People's Republic of China ~72: Fan YANG;Huan ZHANG;Jingyang YU;Xiaosong LI;Yang ZHOU;Yanli YIN;Yanqing TANG~ 33:CN ~31:2025109227907 ~32:04/07/2025

2025/06206 ~ Complete ~54:MEDIUM MANGANESE POWDER FOR ADDITIVE MANUFACTURING, PRINTED PART AND METHOD OF MANUFACTURING THE SAME ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Astrid PERLADE;Daniela OBRIOT;Doriane SERRA;Kangying ZHU;Magali BOUZAT;Manuel SÁNCHEZ PONCELA;Michel SOLER;Patrick BARGES;Rosalía REMENTERIA FERNANDEZ~ 33:IB ~31:PCT/IB2023/054421 ~32:28/04/2023

2025/06209 ~ Complete ~54:NUCLEIC ACIDS AND USES THEREOF ~71:Pfizer Inc., 66 Hudson Boulevard East, NEW YORK 10001-2192, NY, USA, United States of America ~72: ALLEN, Pirada Suphaphiphat;CHE, Ye;MUNOZ-MORENO, Raquel;SOLORZANO QUIJANO, Alicia~ 33:US ~31:63/484,186 ~32:09/02/2023;33:US ~31:63/484,747 ~32:13/02/2023;33:US ~31:63/621,102 ~32:15/01/2024

2025/06211 ~ Complete ~54:ANTI-LATENT TGF-BETA 1 ANTIBODIES AND METHODS OF USE ~71:Chugai Seiyaku Kabushiki Kaisha, 5-1, Ukima 5-chome, Kita-ku, TOKYO 1158543, JAPAN, Japan ~72: IKAWA, Yuri;KANAMORI, Masakazu;MORI, Keita;SAVORY, Nasa;SHIRAI, Kazuhide;TAKIZAWA, Shuuki~ 33:JP ~31:2023-019304 ~32:10/02/2023

2025/06214 ~ Complete ~54:TELOMERASE INHIBITOR COMPOUNDS ~71:GERON CORPORATION, 919 E. Hillsdale Blvd. Suite 250, Foster City, California, 94404, United States of America ~72: AJAY SONI;MANOJ KUMAR KHERA~ 33:US ~31:63/444,467 ~32:09/02/2023

2025/06194 ~ Complete ~54:PREPARATION AND APPLICATION OF HOLLOW CARBON/GRAPHENE COMPOSITE CARBON ~71:Taiyuan University of Technology, No. 79 Yingze West Avenue, Taiyuan, Shanxi Province, 030000, People's Republic of China ~72: Chao MA;Huijun LI;Xiaomin WANG;Xiaoming QIU~ 33:CN ~31:2025108427535 ~32:23/06/2025

2025/06195 ~ Complete ~54:ELISA DETECTION KIT FOR BRUCELLOSIS ANTIBODY AND APPLICATION THEREOF ~71:Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, No.23788 Gongye North Road, Jinan City, Shandong Province, 250100, People's Republic of China ~72: CHEN Zhi;DING Luogang;LI Jianda;LIU Fei;SUN Wenbo;WU Jiaqiang;YU Jiang;ZHAI Kexin;ZHANG Yuyu~

2025/06199 ~ Complete ~54:WIND RESISTANCE BRAKING POWER GENERATION SYSTEM APPLIED TO VEHICLES ~71:Shengping Cao, 8th Floor, No. 407, Guanghui Road, Duyun, Guizhou, People's Republic of China ~72: Shengping Cao~ 33:CN ~31:202510867755X ~32:26/06/2025

2025/06202 ~ Complete ~54:MINERAL MATERIAL PROCESSING PLANT WITH MULTIFUNCTIONAL SUPPORT LEGS ~71:METSO FINLAND OY, Rauhalanpuisto 9, Finland ~72: POHJA, Jarno;SALO, Lasse~ 33:FI ~31:20235101 ~32:03/02/2023

2025/06193 ~ Provisional ~54:A COMPOSITION SUITABLE FOR DEVULCANIZING RUBBER AND A METHOD FORPREPARING THE COMPOSITION ~71:BOSCH, Robert Michael, 11 Rhodes Street, Mount Pleasant, South Africa ~72: BOSCH, Robert Michael~

2025/06196 ~ Complete ~54:MULTISTAGE DUAL-FLOW MINERAL SEPARATOR ~71:Tangshan Smart Coal Preparation Technology Co., Ltd, 50m south of Damai Pu Village, Wang Lanzhuang Town, Fengnan District, Tangshan City, Hebei Province, People's Republic of China ~72: Bing LI;Dahu LI;Hao JIANG;Haoxuan YANG;Kuan YAN;Kuiwu GUO;Qiang LU;Qinghai ZHANG;Ruichao HAO;Weiming GE;Xinmin WANG;Yuhuan GUAN;Zhiyuan SHI~ 33:CN ~31:202510852695.4 ~32:24/06/2025

2025/06198 ~ Complete ~54:METHOD FOR DETERMINING THE PROCESSING METHOD OF HULAZI CHILI BASED ON DIFFERENTIAL VOLATILE COMPONENTS IN HEADSPACE-GC-IMS ~71:Sichuan Tourism University, No.459, Hongling Road, Longquanyi District, Chengdu, Sichuan Province, People's Republic of China ~72: DU Yichen;GONG Lukun;HOU Zhiyong;LI Xiang;LI Yuanle;TANG Yingming;XU Pei;ZHANG Hao;ZHANG Yin~

2025/06208 ~ Complete ~54:NOVEL GENE THERAPY CONSTRUCT FOR CLN2 DISEASE ~71:THE CHILDREN'S HOSPITAL OF PHILADELPHIA, 3401 Civic Center Boulevard, United States of America ~72: CHEN, Yonghong;DAVIDSON, Beverly;KEISER, Megan S.;RANUM, Paul;TECEDOR, Luis~ 33:US ~31:63/482,495 ~32:31/01/2023

2025/06216 ~ Complete ~54:POLYHYDROXYALKANOATE-BASED FIBERS ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard, Bainbridge, Georgia, 39817, United States of America ~72: ADAM JOHNSON;KARSON DURIE;MANGALDEEP KUNDU;MICHAEL N MANG~ 33:US ~31:63/482,337 ~32:31/01/2023

2025/06218 ~ Complete ~54:MANNURONATE, GULURONATE AND GULUMANNURONATE TOPICAL GEL OR CREAM AND METHOD FOR ITS PREPARATION ~71:FLOATING KNIGHT BIOTECH PTE. LTD., 8 Kaki Bukit Avenue 4, Singapore ~72: LALANDER, Jacob;MIRSHAFIEY, Abbas~ 33:EP ~31:22216778.5 ~32:27/12/2022

2025/06217 ~ Complete ~54:HUMANISED ANTIBODY AGAINST AMYLOID BETA 42 ~71:ALZINOVA AB, Pepparedsleden 1, Sweden ~72: PIERROU, Stefan;SANDBERG, Anders~ 33:GB ~31:2304005.8 ~32:20/03/2023

2025/06215 ~ Complete ~54:MITIGATION OF POLY(HYDROXYALKANOTE) DEGRADATION IN POLYMERIC COMPOSITIONS ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard, Bainbridge, Georgia, 39817, United States of America ~72: ABDALA BASHIR;KARSON DURIE~ 33:US ~31:63/485,085 ~32:15/02/2023

2025/06191 ~ Provisional ~54:GAS IT SOLUTIONS ~71:GAS IT SOLUTIONS PTY LTD, 13219 UM-CELLI STREET, WILLOWDALE VOSLO, South Africa ~72: GABRIEL DECEMBER SELINDA~

2025/06205 ~ Complete ~54:ELECTRIC TOOTHBRUSH WITH AUDIO-VIDEO INTERACTION FUNCTION ~71:DENCARE (CHONGQING) ORAL CARE CO., LTD., NO.389 Haier Road, Jiangbei District,, People's

Republic of China ~72: Cen LI;Dan ZHENG;Min ZHANG;Qiang LI;Quanfu DENG;Rong DENG;Xiaoxiao ZHANG;Yang ZHOU~ 33:CN ~31:202410733171.9 ~32:06/06/2024

2025/06207 ~ Complete ~54:DETECTION OF BATTERY PACK MIS-ASSEMBLY ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: CROSMAN, Alexander C.;MILLER, Jason L.;UMMER, Saneeb~ 33:US ~31:18/159,519 ~32:25/01/2023

2025/06212 ~ Complete ~54:HYDROGEN PRODUCTION AND OFF-GAS UTILISATION FROM A BIOMASS-BASED SYNTHESIS GAS ~71:MASH Makes A/S, Østersøvej 28 B, NORDHAVN 2150, DENMARK, Denmark ~72: ANDERSEN, Jakob Bejbro~ 33:EP ~31:23151635.2 ~32:13/01/2023

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2025/06223 ~ Provisional ~54:AI WITNESS™ AND AI LEGAL REPRESENTATIVE™ ~71:Janus Booyens, 72 cliffs avenue, Pretorius park, South Africa ~72: Janus Booyens~ 33:ZA ~31:FIRST-FILING-LOCAL ~32:22/07/2025

2025/06227 ~ Provisional ~54:SYSTEM FOR MANAGING/FACILITATING THE ACQUISITION AND SALE OF FINANCIAL INSTRUMENTS ~71:CALI MOSS (PTY) LTD, 137 Metropolitan Street, Highveld Park, Centurion, 0169, South Africa ~72: BHEKI SEFISO MSOMI;MOTSHABI MILLICENT MOTLANA~

2025/06230 ~ Provisional ~54:HYBRID VISION-TRANSPARENT EYEWEAR DEVICE INTEGRATING EEG, EOG, AND ON-DEVICE AI FOR BIO-SIGNAL ACQUISITION, ARTIFACT REMOVAL, AND COGNITIVE STATE TRACKING ~71:Kabelo Diale, 7 Comet Street, South Africa ~72: Kabelo Diale~

2025/06232 ~ Complete ~54:ANTI-SCRATCH AND NON-BLACKENING WATER-BASED LATEX PAINT AND PREPARATION METHOD THEREOF ~71:Carpoly Chemical Group Co., Ltd., Jinxi Industrial Zone, Tangxia Town, Pengjiang District, Jiangmen City, Guangdong Province 529000, People's Republic of China;Guangdong Carpoly Science and Technology Material Co., Ltd., No. 18, Fumian South Road, Duruan Town, Pengjiang District, Jiangmen City, Guangdong Province 529000, People's Republic of China ~72: Hengzhi Hu;Zhaoqiang He;Zhengwei Cai~ 33:CN ~31:2025101102320 ~32:23/01/2025

2025/06237 ~ Complete ~54:INTELLIGENT REGULATION, STORAGE AND UTILIZATION METHOD FOR BIO-NATURAL GAS ~71:Lanzhou University of Technology, No.287, Langongping Road, Qilihe District, Lanzhou City, People's Republic of China ~72: Huan Sun;Jiacheng Liu;Jinping Li;Xinying Lan;Xuemin Zhang;Yetao Zhang;Yingmei Wang~ 33:CN ~31:2025106973239 ~32:28/05/2025

2025/06248 ~ Complete ~54:DRUG CONJUGATES FOR THE TREATMENT OF OCULAR DISORDERS ~71:ASCENDIS PHARMA OPHTHALMOLOGY DIVISION A/S, TUBORG BOULEVARD 12, 2900 HELLERUP, DENMARK, Denmark ~72: BARTHELME, Dominik;BISEK, Nicola;FIEBIG, David, Alexander;KNAPPE, Thomas;LAUFER, Burkhardt;PREUSS, Till;SCHNABEL, Meike;STARK, Sebastian;VOIGT, Tobias~ 33:EP ~31:23150457.2 ~32:05/01/2023;33:EP ~31:23198171.3 ~32:19/09/2023

2025/06228 ~ Provisional ~54:SIPBLOKLOCK™ | ZIPBRICK™ – A DUAL-PURPOSE BEVERAGE CONTAINER AND INTERLOCKING MODULAR BUILDING UNIT. ~71:YOLANDA RAUTENBACH, 33 BRINK, South Africa ~72: Hugo Van Der Bank;YOLANDA RAUTENBACH~

2025/06235 ~ Complete ~54:INTELLIGENT ENVIRONMENT REGULATION AND CONTROL SYSTEM USED IN FRUIT AND VEGETABLE FRESH-KEEPING STOREHOUSE ~71:Shanxi Agricultural University, No. 81 Longcheng Street, Xiaodian District, Taiyuan City, Shanxi Province, 030031, People's Republic of China;Shanxi Yuhai Fruit Industry Co., Ltd., Within the courtyard of Huanghe Fruit Industry Company, Pinglu County

Development Zone, Yuncheng City, Shanxi Province, 044300, People's Republic of China ~72: FENG, Zhihong;ZHANG, Xinxian;ZHAO, Hailiang;ZHAO, Lian~

2025/06240 ~ Complete ~54:SEMAGLUTIDE FOR THE TREATMENT OF NON-ALCOHOLIC STEATOHEPATITIS ~71:Novo Nordisk A/S, Novo Allé, BAGSVÆRD 2880, DENMARK, Denmark ~72: DAMGAARD, Lars Holm;HANSEN, Morten;LINDER, Martin;PALLE, Mads Sundby;TORSTENSON, Carl Richard~ 33:EP ~31:20171536.4 ~32:27/04/2020;33:EP ~31:20173341.7 ~32:06/05/2020

2025/06245 ~ Complete ~54:SOLID-STATE SYNTHESIS OF NOVEL MULTI-PHASE BLUE-EMITTING PHOSPHOR FOR LIGHTING APPLICATIONS ~71:DABRE, Kamlesh V., DEPARTMENT OF PHYSICS, TAYWADE COLLEGE, MAHADULA-KORADI, NAGPUR- 441111, India;DESHMUKH, Radhika G., DEPARTMENT OF PHYSICS, SHRI SHIVAJISCIENCE COLLEGE, AMRAVATI- 444603, India;DHOBLE, Sanjay J., DEPARTMENT OF PHYSICS, R.T.M. NAGPUR UNIVERSITY, NAGPUR- 440033, India;GAIKWAD, Amruta, DEPARTMENT OF PHYSICS, R.T.M. NAGPUR UNIVERSITY, NAGPUR- 440033, India;PARAUHA, Yatish R., DEPARTMENT OF PHYSICS, SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT, NAGPUR- 440013, India ~72: DABRE, Kamlesh V.;DESHMUKH, Radhika G.;DHOBLE, Sanjay J.;GAIKWAD, Amruta;PARAUHA, Yatish R.~

2025/06257 ~ Complete ~54:METHODS AND SYSTEMS FOR REVERSIBLE COUPLING OF CONDUITS ~71:LONE GULL HOLDINGS, LTD., 5331 S. Macadam Ave., Suite 258, PMB 332 Portland, Oregon, 97239, United States of America ~72: BRIAN LEE MOFFAT;GARTH ALEXANDER SHELDON-COULSON~ 33:US ~31:63/450,914 ~32:08/03/2023;33:US ~31:18/594,655 ~32:04/03/2024

2025/06255 ~ Complete ~54:A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elke LEUNIS;Sigrid JACOBS;Xavier CHASSANG~ 33:IB ~31:PCT/IB2023/061532 ~32:15/11/2023

2025/06259 ~ Complete ~54:METHODS AND COMPOSITIONS COMPRISING A CARDIO-TOLERATED HDAC INHIBITOR ~71:HUYABIO INTERNATIONAL, LLC, 12531 High Bluff Drive, Suite 138, San Diego, California, 92130, United States of America ~72: GLORIA LEE;MIREILLE GILLINGS~ 33:US ~31:63/441,131 ~32:25/01/2023

2025/06243 ~ Complete ~54:A PREDICTIVE ANALYTICS SYSTEM FOR CROP SELECTION AND YIELD OPTIMIZATION IN AGRICULTURE ~71:VISHWAKARMA INSTITUTE OF TECHNOLOGY, 666, UPPER MARKET RD, UPPER INDIRA NAGAR, BIBWEWADI, PUNE, MAHARASHTRA, 411037, India ~72: BOGIRI, Nagaraju;CHOUGULE, Aditya Manoj;LAD, Kshitij;MAHAJAN, Bhavesh Prakash;MALI, Manisha;MARAL, Vikas Balasaheb;NORE, Ammar Ashfaque;SAKHARE, Sachin R.~

2025/06258 ~ Complete ~54:HERPES ZOSTER TREATMENT ~71:XBIOTECH INC., 1055 West Hastings Street, Suite 300, Vancouver, British Columbia, V6E 2E9, Canada ~72: JOHN SIMARD;SUSHMA SHIVASWAMY~ 33:CA ~31:3190962 ~32:23/02/2023

2025/06225 ~ Provisional ~54:WHEEL PROTECTION DEVICE ~71:DE BRUYN, Hendrik Jacobus, 10 Polla Grobler street, Flimieda, South Africa ~72: DE BRUYN, Hendrik Jacobus~

2025/06226 ~ Provisional ~54:VIBRALUME TOUCHBAND ~71:Mahlogonolo Ngoepe, 52 hassink highway dawn park Bok, South Africa ~72: mahlogonolo ngoepe~

2025/06241 ~ Complete ~54:METHOD FOR COLLECTING EGGS OF CONOGETHES PUNCTIFERALIS AND RAPIDLY IDENTIFYING AND COUNTING OVIPOSITION QUANTITY ~71:SHANDONG INSTITUTE OF

POMOLOGY, No. 66, Longtan Road, Taishan District, Tai'an City, People's Republic of China ~72: Ganyu, ZHANG;Haibin, WU;Rui, GAO;Ruihong, SUN;Sumin, QI;Yanan, MA;Yong, ZHANG~

2025/06246 ~ Complete ~54:MODULAR CONTAINER ~71:DOMETIC SWEDEN AB, Hemvärnsgatan 15, 171 54 Solna, Sweden ~72: ILLMAN, Stanley~ 33:US ~31:63/482,354 ~32:31/01/2023

2025/06260 ~ Complete ~54:PRESSURE ASSISTED DIAFILTRATION SEPARATION METHODS AND SYSTEMS ~71:ALTR FLTR INC., 6507 E. Ocupado Drive, Cave Creek, Arizona, 85331, United States of America ~72: BO PAN;JING DENG;RICHARD SCHATZBERGER~ 33:US ~31:63/441,769 ~32:27/01/2023

2025/06261 ~ Complete ~54:IMPROVEMENT IN VIRAL EXTRACTION FROM CELL CULTURE ~71:NATIONAL RESEARCH COUNCIL OF CANADA, 1200 Montreal Road, Ottawa, Ontario, K1A 0R6, Canada ~72: ALLAN MATTE;ALLISON HAGERMAN;HUE TRAN;JYOTI LATAWA;KRISHNA RAJ TIWARI;MATTHEW COFFEY;MEHUL PATEL;ROBERT VOYER~ 33:US ~31:63/461,216 ~32:21/04/2023

2025/06229 ~ Provisional ~54:AUDIO ACCESSORY ~71:SOUTHEY, Hendrik Johan, 54 Stormvoel Crescent, Vermont, South Africa ~72: SOUTHEY, Hendrik Johan~

2025/06239 ~ Complete ~54:MASP-2 INHIBITORS AND METHODS OF USE ~71:Omeros Corporation, 201 Elliott Avenue West, SEATTLE 98119, WA, USA, United States of America ~72: CICIRELLI, Michael;CUTSHALL, Neil S.;GAGE, Jennifer Lynn;GOLDSTEIN, Sara Rebecca;GRUSWITZ, Franz A.;KESHIPEDDY, Santosh Kumar;KHALAF, Juhienah;KWON, Do Yeon;LEMUS, Robert Huerta;LITTLE, Thomas L.;METZ, Markus;NGUYEN, Jeremiah H.;NOLLERT VON SPECHT, Peter Kurt;TSOUNG, Jennifer;VADDELA, Sudheer Babu~ 33:US ~31:62/677,472 ~32:29/05/2018;33:US ~31:62/677,495 ~32:29/05/2018;33:US ~31:62/677,514 ~32:29/05/2018;33:US ~31:62/677,538 ~32:29/05/2018

2025/06250 ~ Complete ~54:GAME TABLE SYSTEM ~71:Angel Group Co., Ltd., 4600, Aono-cho, HIGASHIOMI-SHI 5270232, SHIGA, JAPAN, Japan ~72: SHIGETA , Yasushi~ 33:JP ~31:2023-013505 ~32:31/01/2023

2025/06231 ~ Complete ~54:ONCOLOGY DRUG DELIVERY DEVICE ~71:Tianjin 4th Central Hospital, No. 3 Zhongshan Road, Hebei District, Tianjin City, People's Republic of China ~72: Kai Chen;Ruitao Wang;Zhiling Jia~ 33:CN ~31:2025103254031 ~32:19/03/2025

2025/06233 ~ Complete ~54:BASKETBALL HOOP DEVICE FOR BASKETBALL SHOOTING TRAINING ~71:Shanghai University of Political Science and Law, No. 7989 Waiqingsong Road, Qingpu District, Shanghai City, 201701, People's Republic of China ~72: YUE Ming~

2025/06234 ~ Complete ~54:INTELLIGENT ENGLISH GRAMMATICAL ERROR CORRECTION AND FEEDBACK SYSTEM ~71:Rongjun Zhang, Chaoyang Village, Luanchuan Township, Luanchuan County, Luoyang, Henan, People's Republic of China ~72: Rongjun Zhang~

2025/06242 ~ Complete ~54:A SYNTHESIS PROCESS OF DY, EU, TB ACTIVATED CA9AL6O18 PHOSPHOR FOR LIGHT EMITTING DIODE ~71:BANSOD, Amit R., DEPARTMENT OF PHYSICS, DR. AMBEDKAR COLLEGE, DEEKSHABHOOMI, NAGPUR, MAHARASHTRA, 440010, India;DHOBLE, Sanjay J., DEPARTMENT OF PHYSICS, RASHTRSANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR, MAHARASHTRA, 440033, India;NANDANWAR, Chandrahasya M., DEPARTMENT OF PHYSICS, DR. AMBEDKAR COLLEGE, DEEKSHABHOOMI, NAGPUR, MAHARASHTRA, 440010, India;YERPUDE, Atul N., DEPARTMENT OF PHYSICS N. H. COLLEGE, BRAMHAPURI, CHANDRAPUR, MAHARASHTRA, 441206, India;ZAKDE, Kranti R., DEPARTMENT OF PHYSICS, SCHOOL OF BASIC AND APPLIED SCIENCES, CHHATRAPATI SAMBHAJINAGAR, AURANGABAD, MAHARASHTRA, 431003, India ~72: BANSOD, Amit R.;DHOBLE, Sanjay J.;NANDANWAR, Chandrahasya M.;YERPUDE, Atul N.;ZAKDE, Kranti R.~

2025/06244 ~ Complete ~54:A METHOD FOR OPTIMIZING THE SELECTION PROCESS OF DOMESTIC LIGHTING DEVICES ~71:CHATI, Satyajit D., DEPARTMENT OF PHYSICS, R. T. M. NAGPUR UINVERSITY, NAGPUR, MAHARASHTRA, 440033, India;CHOPRA, Vibha, P.G. DEPARTMENT OF PHYSICS & ELECTRONICS, DAV COLLEGE, AMRITSAR, PUNJAB, 143001, India;DHOBLE, Sanjay J., DEPARTMENT OF PHYSICS, R. T. M. NAGPUR UINVERSITY, NAGPUR, MAHARASHTRA, 440033, India;DHOBLE, Satvik K., DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, G.H. RAISONI INSTITUTE OF ENGINEERING AND TECHNOLOGY, NAGPUR, MAHARASHTRA, 440016, India;NARKHEDKAR, Pragati D., SHUSHILABAI RAMCHANDRARAO MAMIDWAR COLLEGE OF SOCIAL WORK, PADOLI, CHANDRAPUR, MAHARASHTRA, 442406, India ~72: CHATI, Satyajit D.;CHOPRA, Vibha;DHOBLE, Sanjay J.;DHOBLE, Satvik K.;NARKHEDKAR, Pragati D.~

2025/06249 ~ Complete ~54:ANTIPERSPIRANT COMPOSITIONS ~71:ELEMENTIS SPECIALTIES, INC., 469 Old Trenton Road, East Windsor, United States of America ~72: BURCH, Kimberly;CARDARELLI, Victoria;ORDIALES, Rey;SCHMIDT, Barbara M.~ 33:US ~31:18/203,953 ~32:31/05/2023;33:GB ~31:2312153.6 ~32:08/08/2023

2025/06251 ~ Complete ~54:COMBINATION THERAPY AND RELATED METHODS ~71:Bicara Therapeutics Inc., 116 Huntington Avenue, Suite 703, BOSTON 02116, MA, USA, United States of America ~72: BOREDDY, Srinivas Reddy;KUMARA M. V, Prashantha;NAIR, Pradip;PANDEY, Prashant Kumar;SALAZAR, Rachel~ 33:US ~31:63/483,399 ~32:06/02/2023

2025/06220 ~ Provisional ~54:A MULTILINGUAL LEARNING PLATFORM FOR SADC LANGUAGES INCLUDING UNOFFICIAL AND INDIGENOUS DIALECTS ~71:DAKALO JOTHAM RAMBAU, 887 MDLALOSE STREET, PROTEA NORTH, South Africa ~72: DAKALO JOTHAM RAMBAU ~

2025/06222 ~ Provisional ~54:FENCE MONITORING DEVICE AND SYSTEM ~71:COMDATECH (PTY) LTD, 14 Pitt Street, Plumstead, South Africa ~72: DAVIS, Richard Anthony~

2025/06252 ~ Complete ~54:IMPROVED JAW CRUSHER ~71:Moore Watson Limted, 16 Sunnyside Drive, Brightons, FALKIRK FK2 0GG, UNITED KINGDOM, United Kingdom ~72: WATSON, Thomas Nicholas~ 33:GB ~31:2301314.7 ~32:30/01/2023;33:GB ~31:2307788.6 ~32:24/05/2023

2025/06253 ~ Complete ~54:ENERGY STORAGE SYSTEM FOR NUCLEAR REACTOR REMOTE INSTALLATION ~71:Westinghouse Electric Company LLC, 1000 Westinghouse Drive, Suite 141, CRANBERRY TOWNSHIP 16066, PA, USA, United States of America ~72: EZELARAB, Ibrahim;SWEAT, Scott M.~ 33:US ~31:18/158,848 ~32:24/01/2023

2025/06254 ~ Complete ~54:USER EQUIPMENT (UE)-ASSISTED OVER-THE-AIR (OTA) CALIBRATION WITH EXPLICIT FEEDBACK ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), 164 83, Sweden ~72: FRENNE, Mattias;NILSSON, Andreas;VIEIRA, Joao~ 33:US ~31:63/487,678 ~32:01/03/2023

2025/06256 ~ Complete ~54:EXHAUST GAS PURIFICATION CATALYST MANUFACTURING DEVICE, AND EXHAUST GAS PURIFICATION CATALYST MANUFACTURING METHOD ~71:CATALER CORPORATION, 7800 Chihama, Kakegawa-shi, Shizuoka, 4371492, Japan ~72: ETSUKO OHARA;RYOMA MORITA;TAKASHI KUWAHARA~ 33:JP ~31:2023-012487 ~32:31/01/2023

2025/06238 ~ Complete ~54:A FINGERING AUXILIARY TRAINING SYSTEM AND METHOD FOR PIPA PERFORMANCE EDUCATION ~71:Xinyu University, 2666 Sunshine Avenue, High-tech Zone, Xinyu City, Jiangxi Province, 338004, People's Republic of China ~72: Meiqing Yuan~

2025/06247 ~ Complete ~54:NOVEL HETEROCYCLIC COMPOUNDS ~71:INNOVO THERAPEUTICS INC., 507HO, 38, MAPO-DAERO, MAPO-GU, SEOUL 04174, REP OF KOREA, Republic of Korea ~72: JEONG, Eunju;KIM, Hak Joong;KIM, Tae Hun;KO, Seungyun;RYU, Jaeyoon~ 33:KR ~31:10-2023-0009009 ~32:20/01/2023

2025/06224 ~ Provisional ~54:MARINE CITIZEN FRAMEWORK ~71:Georg Slabbert, 90 Mahogany Street Northcliff, South Africa ~72: Georg Slabbert~

2025/06236 ~ Complete ~54:A FIRE EXTINGUISHER HEAD STAMPING FORMING MACHINE ~71:Shandong Zhongdao Fire Equipment Co., Ltd., Room 1-411, Building 1, No. 8936, Yuehelou Business Building, Yuehe Road, Dongfeng Street, Chengguan Sub-district, Weicheng District, Weifang City, Shandong Province, 261000, People's Republic of China ~72: Zhen Li~ 33:CN ~31:202510629589.X ~32:16/05/2025

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

Application Number	Assignor	Assignee
2013/09155	CELLESTIS PTY LTD	QIAGEN AUSTRALIA HOLDINGS PTY LTD.
2013/09155	QIAGEN AUSTRALIA HOLDINGS PTY LTD.	QIAGEN NORTH AMERICAN HOLDINGS, INC.
2013/09155	QIAGEN NORTH AMERICAN HOLDINGS, INC.	QIAGEN SCIENCES LLC
2018/00437	JENABATTERIES GMBH	JENA FLOW BATTERIES
2022/06839	LUNG-DIAGNOSTICS GMBH	7S HEALTH CARE GMBH
2025/05155	SANOFI	SANOFI PASTEUR INC.
2023/07700	CHINA UNIVERSITY OF MINING AND TECHNOLOGY	CHINA UNIVERSITY OF MINING AND TECHNOLOGY and DANANHU NO.7 COAL MINE, SDIC HAMI ENERGY DEVELOPMENT LIMITED LIABILITY COMPANY
2017/03002	GENOSCIENCE PHARMA	GENFIT
2009/03053	CARA THERAPEUTICS, INC.	VIFOR FRESENIUS MEDICAL CARE RENAL PHARMA LTD
2009/03053	CARA THERAPEUTICS, INC.	VIFOR FRESENIUS MEDICAL CARE RENAL PHARMA LTD
2019/02646	BHE TURBOMACHINERY, LLC	HENRY K. OBERMEYER
2024/07628	SANYOU BIOPHARMACEUTICALS CO., LTD.	HANGZHOU ZHONGMEIHUADONG PHARMACEUTICAL CO., LTD.
2019/07461	GRITSTONE BIO, INC.	SEATTLE PROJECT CORP.
2021/10217	GRITSTONE BIO, INC.	SEATTLE PROJECT CORP.
2016/04234	STEER, GAVIN MILTON	PRODUCT GENESIS DESIGNS (PTY) LTD
2023/02882	1824930 ALBERTA LTD.	1498264 ALBERTA LTD.
2023/02882	1498264 ALBERTA LTD.	BRIGHTHOLME INC.
2021/03130	NEUTRINO DEUTSHLAND GMBH	NEUTRINO, INC.
2019/03514	THE JVR TRUST	PRESTIGE MANAGEMENT TRUST – IT2553/2009©
2023/00963	THE JVR TRUST	PRESTIGE MANAGEMENT TRUST – IT2553/2009©
2024/00451	ROESTOFF, MARYNE	CRIME IN PROGRESS SECURITY SOLUTIONS IP (PTY) LTD
2024/02683	ROESTOFF, MARYNE	CRIME IN PROGRESS SECURITY SOLUTIONS IP (PTY) LTD
2021/02230	THOMAS KAISER CHRISTIAN WASSERMANN	FIRE FRIENDS GMBH & CO. KG

Application Number	Assignor	Assignee
2016/02248	PPG INDUSTRIES OHIO, INC.	QEMETICA SPOLKA AKCYJNA
2016/02256	PPG INDUSTRIES OHIO, INC.	QEMETICA SPOLKA AKCYJNA
2016/02204	PPG INDUSTRIES OHIO, INC.	QEMETICA SPOLKA AKCYJNA
2021/05121	VOLEX CABLE ASSEMBLY (SHENZHEN) CO., LTD.	VOLEX INTERCONNECT SYSTEMS (SUZHOU) CO., LTD.
2022/02433	VITROLABS INC	FAIRCRAFT, FRENCH SOCIETE PAR ACTIONS SIMPLIFIEE (S.A.S)
2023/08428	VITROLABS INC	FAIRCRAFT, FRENCH SOCIETE PAR ACTIONS SIMPLIFIEE (S.A.S)
2019/06234	PXGEO SERVICES DMCC	PXGEO UK LIMITED
2020/06340	CERTIS BELCHIM B.V.	SWANSEA UNIVERSITY
2020/05894	BEARD, GAVIN JAMES FORSYTH, MARK	PHOENIX PRECISION ENGINEERING (PTY) LTD
2014/00556	MEDIGENEBIO CORPORATION	GREEN CROSS CORPORATION
2017/06257	DANISH WOOD TECHNOLOGY A/S	GAIA WOOD TECHNOLOGY APS
2020/04867	DANISH WOOD TECHNOLOGY A/S	GAIA WOOD TECHNOLOGY APS
2023/07700	CHINA UNIVERSITY OF MINING AND TECHNOLOGY	DANANHU NO.7 COAL MINE, SDIC HAMI ENERGY DEVELOPMENT LIMITED LIABILITY COMPANY
2025/02806	FOURIE, JOHAN JACQUES	STEEL KING TRUST
2020/03836	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2021/04469	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2021/02420	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2020/04858	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2021/05113	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2022/05297	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2024/03801	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2009/08153	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2011/08479	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2012/08418	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2013/08334	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2013/08341	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2014/08260	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2014/08736	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2015/01527	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2015/01556	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2015/03296	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2023/06522	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2022/05859	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2021/00282	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2020/03455	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2020/00336	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2019/07252	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2019/04981	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2019/03710	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2019/00340	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2016/01896	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2015/03297	SAINT-GOBAIN GLASS FRANCE	SAINT-GOBAIN SEKURIT FRANCE
2013/05399	DSM IP ASSETS B.V.	LESAFFRE ET COMPAGNIE S.A.

Application Number	Assignor	Assignee
2010/07367	ACTELION PHARMACEUTICALS LTD.	LABORATOIRES JUVISE PHARMACEUTICALS
2011/03691	ACTELION PHARMACEUTICALS LTD.	LABORATOIRES JUVISE PHARMACEUTICALS
2017/04624	ACTELION PHARMACEUTICALS LTD.	LABORATOIRES JUVISE PHARMACEUTICALS

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2024/02900	BEIJING TENSAM HIGH-TECH WIND POWER TECHNOLOGY CO., LTD.	BEIJING TIANSHAN HI-TECH WIND POWER EQUIPMENT CO., LTD.
2013/09155	CELLESTIS LTD.	CELLESTIS PTY LTD
2020/02991	ZHUHAI QIWEI BIO-TECHNOLOGY LTD.	SMILEBIOTEK ZHUHAI LIMITED
2021/03256	ZHUHAI QIWEI BIO-TECHNOLOGY LTD.	SMILEBIOTEK ZHUHAI LIMITED
2022/05998	METSO OUTOTEC FINLAND OY	METSO FINLAND OY
2022/10155	HEBEI COLLEAD BIOTECH CO., LTD.	HEBEI TELLGEN LIFE SCIENCE CO., LTD.
2020/06340	CERTIS EUROPE BV	CERTIS BELCHIM B.V.
2025/05380	GENERAL ELECTRIC TECHNOLOGY GMBH	GE VERNOVA TECHNOLOGY GMBH
2021/07338	DREN BIO, INC.	DREN BIO MANAGEMENT, INC.
2021/07951	DREN BIO, INC.	DREN BIO MANAGEMENT, INC.
2023/03966	DREN BIO, INC.	DREN BIO MANAGEMENT, INC.
2023/04293	DREN BIO, INC.	DREN BIO MANAGEMENT, INC.
2024/07540	DREN BIO, INC.	DREN BIO MANAGEMENT, INC.
2025/02334	DREN BIO, INC.	DREN BIO MANAGEMENT, INC.
2025/02221	DREN BIO, INC.	DREN BIO MANAGEMENT, INC.

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

2024/09301	FORSEEN TECHNOLOGY (BEIJING) CO., LTD.	ISPEN PHARMA SAS

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Not Open	Date
2023/09106	WITHDRAWN	10/07/2025

APPLICATION FOR RESTORATION OF A LAPSED PATENT

THE PATENTS ACT, No. 57 OF 1978

Notice is hereby given that **DANIEL PETRUS GROENEWALD** whose address for service is **APS VAN DER MERWE, PRETORIA** has applied to the registrar for the restoration of Patent No **2013/06698** entitled **WASH TROUGH DRAINAGE WATER RE-USE EQUIPMENT AND TOILET INSTALLATION** dated **06/09/2013**, which lapsed on **06/09/2019** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **UNIVERSITY OF CAPE TOWN AND SEATTLE CHILDREN'S HOSPITAL** whose address for service is **EDWARD NATHAN SONNENBERGS INC, RANDBURG** has applied to the registrar for the restoration of Patent No **2018/03854** entitled **BIOMARKERS FOR PROSPECTIVE DETERMINATION OF RISK FOR DEVELOPMENT OF ACTIVE TUBERCULOSIS** dated **09/11/2016**, which lapsed on **09/11/2024** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **BIOCLUE BV** whose address for service is **HAHN & HAHN, HATFIELD** has applied to the registrar for the restoration of Patent No **2021/06379** entitled **BIOLOGICAL SEQUENCING** dated **07/02/2020**, which lapsed on **28/02/2024** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **DANIEL PETRUS GROENEWALD** whose address for service is **APS VAN DER MERWE, PRETORIA** has applied to the registrar for the restoration of Patent No **2013/06698** entitled **WASH TROUGH DRAINAGE WATER RE-USE EQUIPMENT AND TOILET INSTALLATION** dated **06/09/2013**, which lapsed on **06/09/2019** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **UNIVERSITY OF CAPE TOWN AND SEATTLE CHILDREN'S HOSPITAL** whose address for service is **EDWARD NATHAN SONNENBERGS INC, RANDBURG** has applied to the registrar for

the restoration of Patent No **2018/03854** entitled **BIOMARKERS FOR PROSPECTIVE DETERMINATION OF RISK FOR DEVELOPMENT OF ACTIVE TUBERCULOSIS** dated **09/11/2016**, which lapsed on **09/11/2024** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **BIOCLUE BV** whose address for service is **HAHN & HAHN, HATFIELD** has applied to the registrar for the restoration of Patent No **2021/06379** entitled **BIOLOGICAL SEQUENCING** dated **07/02/2020**, which lapsed on **28/02/2024** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **EPIROC HOLDINGS (PTY) LTD** whose address for service is **TABERER ATTONEYS INC, CAPE TOWN** has applied to the registrar for the restoration of Patent No **2017/08642** entitled **RADIALLY EXPANSIBLE ROCK BOLT** dated **15/09/2015**, which lapsed on **15/09/2019** owing to the non-payment of the prescribed renewal fee.

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

THE PATENTS ACT, No. 57 OF 1978

VOLUNTARY SURRENDER OF A PATENT UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

No records available

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: MINIMAL INVASIVE TECHNOLOGIES (PTY) LTD 1378B Breyer Avenue Waverley 0186 PRETORIA. Request permission to amend the specification of letters patent no: **2016/03814** of **03/06/2016** for **PEDICLE MOUNTABLE RETRACTOR SYSTEM**.

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

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

Registrar of Patents

Applicant: PAMA, Thandisizwe Ezwenilethu 137 Villefranche, Sunset Boulevard, Lonehill 2062 Sandton. Request permission to amend the specification of letters patent no: **2023/09454** of **10/10/2023** for **VISHING DEFENCE METHOD AND SYSTEM**.

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

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

Registrar of Patents

Applicant: IMMUNITY PHARMA LTD. 28 Meron Street 9076424 Mevasserete Zion. Request permission to amend the specification of letters patent no: **2021/00587** of **27/01/2021** for **PEPTIDE COMPUNDS AND THERAPEUTIC USES OF SAME.**

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

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

Registrar of Patents

Applicant: MM METALS USA, LLC 4000 Chemical Road, Suite 401, Plymouth Meeting Pennsylvavia 19462. Request permission to amend the specification of letters patent no: **2021/10259** of **10/12/2021** for **METHOD AND SYSTEM FOR PRODUCING LOW CARBON FERROCHROME FROM CHROMITE ORE AND LOW CARBON FERROCHROME PRODUCED THEREBY.**

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

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

Registrar of Patents

Applicant: STELLENBOSCH UNIVERSITY Admin B, Victoria Street 7600 Stellenbosch, Western Cape Province. Request permission to amend the specification of letters patent no: **2022/12542** of **17/11/2022** for **ANTHROPOMETRIC GROWTH APPARATUS.**

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

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

Registrar of Patents

Applicant: THE BADGE COMPANY (PROPRIETARY) LIMITED 66-68 Industrial Ring Road, Parow Industria, Cape Town, 7493. Request permission to amend the specification of letters patent no: **2007/07295** of **28/08/2007** for **A BADGE.**

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

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

Registrar of Patents

Applicant: LANXESS Deutschland GmbH Kennedyplatz 1, KÖLN 50569, GERMANY. Request permission to amend the specification of letters patent no: **2018/01162** of **20/02/2018** for **NOVEL METHOD FOR PRODUCING RUBBER-MODIFIED BITUMEN USING VULCANIZED RUBBER.**

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

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

Registrar of Patents

INSPECTION OF SPECIFICATIONS

A complete specification may, after acceptance is advertised, be inspected during office hours at the Patent Office, Pretoria, at a charge of **R4, 00.** Please note, that in terms of section 43 (3) if the acceptance of an application which claims priority in terms of section 31 (1) (c) is not published in terms of section 42 within 18 months from the earliest priority claimed from the relevant application in a convention country, it shall be opened to public inspection after the expiration of 18 months from the earliest priority so claimed.

COPIES OF DOCUMENTS

The Patent Office, Private Bag X400, Pretoria, supplies copies of all patent and trade mark documents at the following rate:

Photocopies: **R1, 00 per page**

COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF

Complete specifications in respect of the under mentioned applications for letters Patent have been accepted by the Registrar of Patents.

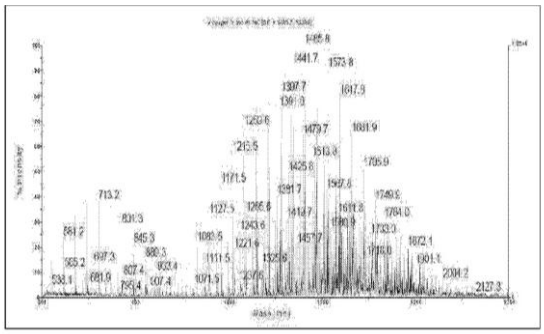
The numerical references denote the following: **(21)** Number of application. **(22)** Date of application. **(43)** Date of acceptance. **(51)** Class. **(71)** Name of applicant(s). **(72)** Name of all inventors. **(33)** Country. **(31)** Number and **(32)** Date of convention application. **(54)** Title of invention. **(00)** Number of sheets.

Registrar of Patents

21: 2014/03085. 22: 2014/04/25. 43: 2025/06/06
51: A01K
71: REGENERON PHARMACEUTICALS, INC
72: MACDONALD, LYNN, GURER, CAGAN, VORONINA, VERA, STEVENS, SEAN, MURPHY, ANDREW J., MCWHIRTER, JOHN, HARRIS, FAITH
33: US 31: 61/552,587 32: 2011-10-28
33: US 31: 61/552,582 32: 2011-10-28
33: US 31: 61/700,908 32: 2012-09-14
54: GENETICALLY MODIFIED MAJOR HISTOCOMPATIBILITY COMPLEX MICE
00: -
The invention provides genetically modified non-human animals that express chimeric human/non-human MHC I polypeptide and/or human or humanized beta2 microglobulin polypeptide, as well as non-human embryos, cells, and tissues comprising the same. Also provided are constructs for making said genetically modified animals and methods of making the same. Methods of using the genetically modified animals to study various aspects of human immune system are provided.

21: 2014/04400. 22: 2014/06/13. 43: 2025/05/06
51: C22C
71: ATI Properties LLC
72: FORBES JONES, Robin M., EVANS, C. Kevin, LIPPARD, Henry E., MILLS, Adrian R., RILEY, John C., DUNN, John J.
33: US 31: 13/331,135 32: 2011-12-20
54: HIGH STRENGTH, CORROSION RESISTANT AUSTENITIC ALLOYS
00: -
An austenitic alloy may generally comprise, in weight percentages based on total alloy weight: up to 0.2 carbon; up to 20 manganese; 0.1 to 1.0 silicon; 14.0 to 28.0 chromium; 15.0 to 38.0 nickel; 2.0 to 9.0 molybdenum; 0.1 to 3.0 copper; 0.08 to 0.9 nitrogen; 0.1 to 5.0 tungsten; 0.5 to 5.0 cobalt; up to 1.0 titanium; up to 0.05 boron; up to 0.05 phosphorous; up to 0.05 sulfur; iron; and incidental impurities.

21: 2017/08394. 22: 2017/12/11. 43: 2025/06/09
51: C14C
71: PROKLEAN TECHNOLOGIES PVT. LTD, SUSTAINABLE COMMUNITY DEVELOPMENT
72: SANKARAKUMARA PILLAI, SIVARAMAKRISHNA PILLAI
33: WO 31: PCT/IN2016/050174 32: 2016-06-08
33: IN 31: 2871/CHE/2015 32: 2015-06-09
54: PROBIOTIC COMPOSITION AS LEATHER AUXILIARY AGENTS AND USE THEREOF
00: -
The present invention describes a fully bio-degradable probiotic composition and its method of use as leather tanning auxiliary to offer a green technology to reduce waste and increase the value of by-products reducing the need of synthetic chemicals and improving the quality of effluents. Probiotics or beneficial microorganisms are used to obtain biochemicals through a controlled fermentation of natural ingredients. The result of the process is a con-sortium of metabolites used in conjunction with probiotic bacteria wherein product has properties very similar to traditional leather auxiliaries extensively used during the leather making process, such as wetting, dispersing, degreasing and solubilizing agents. Therefore, they have clear applications not only in the beam house operations, but also in wet-end and finishing.



21: 2018/02297. 22: 2018/04/09. 43: 2025/07/09
51: A23K; A61K
71: PGG WRIGHTSON SEEDS LIMITED
72: JUDSON, Howard Glenn, EDWARDS, Grant Raymond, BARRELL, Graham Keith
33: NZ 31: 713849 32: 2015-11-02
54: NUTRIENT LOSS REDUCTION METHOD
00: -
The invention relates to methods, uses and products for reducing the loss of nutrients following excretion of those nutrients by an animal. In particular the

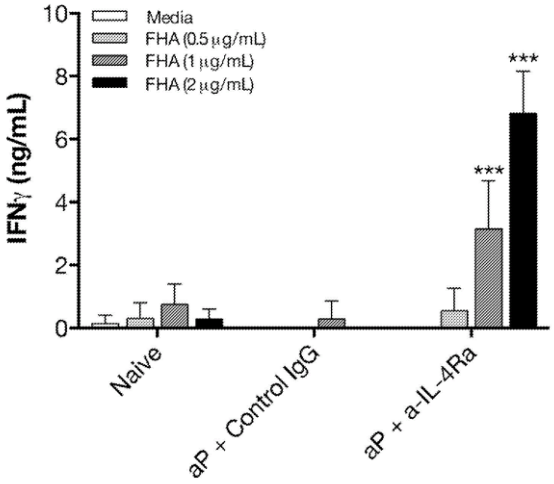
invention relates to methods, uses and plant material for reducing the rate at which nitrogenous compounds excreted in the urine of an animal are lost from practical utility. Mechanisms of loss may involve nitrification and possibly denitrification to produce compounds that can be leached and/or released to the atmosphere as gaseous compounds. This invention has particular application to domesticated animals, particularly sheep and cows, although this should not be seen as limiting.

21: 2018/05295. 22: 2018/08/10. 43: 2025/06/25
51: A61K; C07K
71: REGENERON PHARMACEUTICALS, INC.
72: PURCELL NGAMBO, Lisa, GRAHAM, Neil, MURPHY, Andrew, J., EVANS, Robert
33: US 31: 62/297,257 32: 2016-02-19
33: US 31: 62/409,936 32: 2016-10-19

54: METHODS FOR ENHANCING EFFICACY OF A VACCINE BY ADMINISTERING AN IL-4R ANTAGONIST

00: -

The present invention provides methods for enhancing the efficacy and/or safety of a vaccine. In certain embodiments, the invention provides methods to increase or potentiate the immune response to a vaccine in a subject in need thereof. The methods of the present invention comprise administering to a subject in need thereof an interleukin-4 receptor (IL-4R) antagonist such as an anti-IL-4R antibody in combination with said vaccine. In certain embodiments, the methods of the present invention are used to afford enhanced protection to an infectious disease such as whooping cough.

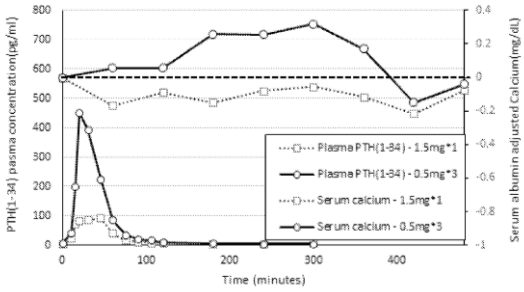


21: 2019/01370. 22: 2019/03/05. 43: 2025/07/09
51: A61K; A61P
71: ENTERA BIO LTD.
72: BURSHTEIN, Gregory, ROTHNER, Ariel, SCHWARTZ, Phillip M., GALITZER, Hillel
33: US 31: 62/375,989 32: 2016-08-17

54: FORMULATIONS FOR ORAL ADMINISTRATION OF ACTIVE AGENTS

00: -

Pharmaceutical compositions comprising a therapeutically active agent and an absorption enhancer such as NAC, NAD, 5-CNAC, 4-MOAC, 4-CNAB or a salt thereof, for use in the treatment of a condition treatable by said therapeutically active agent, are provided. The compositions are for concomitant oral administration of two or more of the unit dosage form, which form together a therapeutically effective amount of the therapeutically active agent and an effective amount of the absorption enhancer. Multi-dose compositions comprising the two or more of the unit dosage form are also provided.



21: 2019/01900. 22: 2019/03/27. 43: 2025/05/05

51: A61K; C12N
71: Zoetis Services LLC
72: DAOUSSI, Rim, WEBER, Frederick H.
33: US 31: 62/404,448 32: 2016-10-05
54: LYOPHILIZATION METHODS THAT PROVIDE STABLY DEHYDRATED PROTOZOANS FOR USE AS POTENT LIVE VACCINES
00: -

An improved stabilization buffer for use in the lyophilization of *Neospora* and other protozoans is disclosed. Also disclosed is an improved lyophilization method, which includes controlling ice nucleation during the freezing step.

21: 2019/05996. 22: 2019/09/11. 43: 2025/07/17
51: G05B; H04W
71: GAFANE LEVY MAMBOLO, THULANI ROLLINS NKUNA
72: GAFANE LEVY MAMBOLO, THULANI ROLLINS NKUNA
33: ZA 31: 2018/03860 32: 2018-06-11
54: COMMUNICATION DEVICE AND METHOD OF CONTROLLING A COMMUNICATION DEVICE
00: -

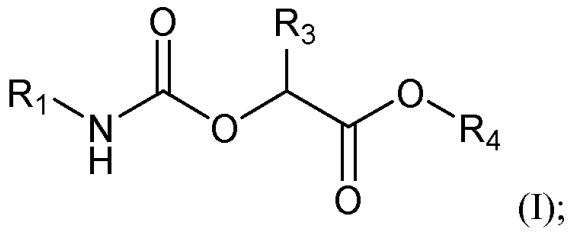
This invention relates to a communication device as well as to a method of controlling a communication device. The communication device has a housing with a camera and a receiver for receiving a camera signal from a remote station.

21: 2019/08542. 22: 2019/12/20. 43: 2025/03/10
51: C12N
71: SNIPR TECHNOLOGIES LIMITED
72: CLUBE, Jasper
33: GB 31: 1712733.3 32: 2017-08-08
54: PROPAGATOR CELLS AND METHODS FOR PROPAGATING PHAGE, IN PARTICULAR FOR DELIVERING CRISPR-CAS COMPONENTS VIA PROBIOTIC ORGANISMS
00: -

The invention provides propagator cells and methods for propagating phage and transduction particles.

21: 2020/00425. 22: 2020/01/22. 43: 2025/06/10
51: A61K; C07D; A61P
71: NODTHERA LIMITED
72: BOCK, Mark G., WATT, Alan Paul, WATT, Roderick Alan, HARRISON, David, BOUTARD, Nicolas Felix Pierre, LEVENETS, Oleksandr, FABRITIUS, Charles-Henry Robert Yves, TOPOLNICKI, Grzegorz Witold
33: GB 31: 1712282.1 32: 2017-07-31
54: SELECTIVE INHIBITORS OF NLRP3 INFLAMMASOME
00: -

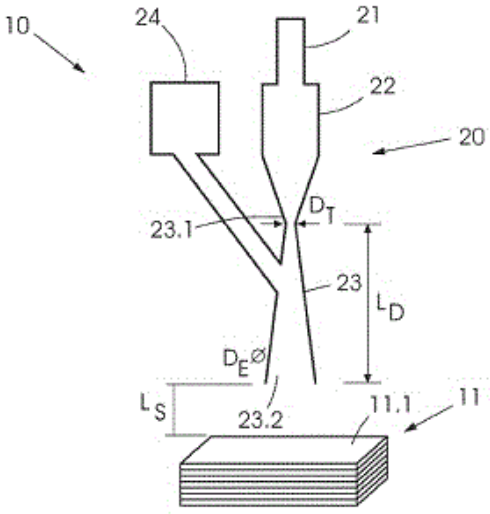
The present disclosure relates to compounds of Formula (I): (I); and to their pharmaceutically acceptable salts, pharmaceutical compositions, methods of use, and methods for their preparation. The compounds disclosed herein are useful for inhibiting the maturation of cytokines of the IL-1 family by inhibiting inflammasomes and may be used in the treatment of disorders in which inflammasome activity is implicated, such as autoinflammatory and autoimmune diseases and cancers



(I);

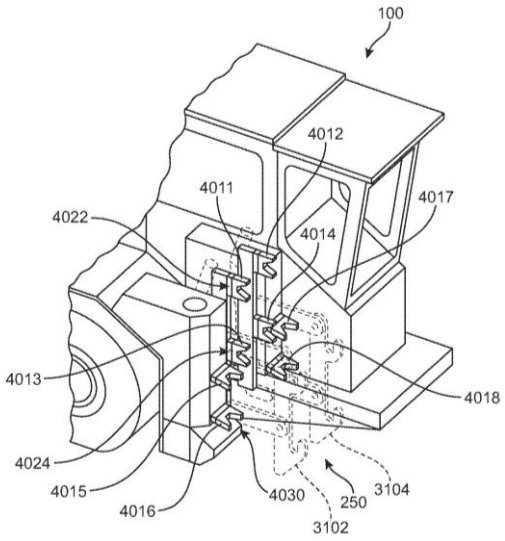
21: 2020/01762. 22: 2020/03/19. 43: 2025/05/28
51: A01N; A01P; C23C
71: UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG
72: BOTEF, IONEL, LUCAS, MICHAEL DAVID IAN , VAN VUUREN, SANDY
33: ZA 31: 2017/06586 32: 2017-09-29
54: METHOD OF APPLYING AN ANTIMICROBIAL SURFACE COATING TO A SUBSTRATE
00: -

A method of applying an antimicrobial surface coating to a substrate, and more particularly to a method of applying an antimicrobial surface coating to a polymeric substrate manufactured by way of additive manufacturing. The method includes the steps of providing a body to be coated, the body having a surface area and cold spraying an antimicrobial metal powder on at least part of the surface area of the body so as to form an antimicrobial coating on the body. The method is characterized in that the body is made from a polymeric material by way of an additive manufacturing process.

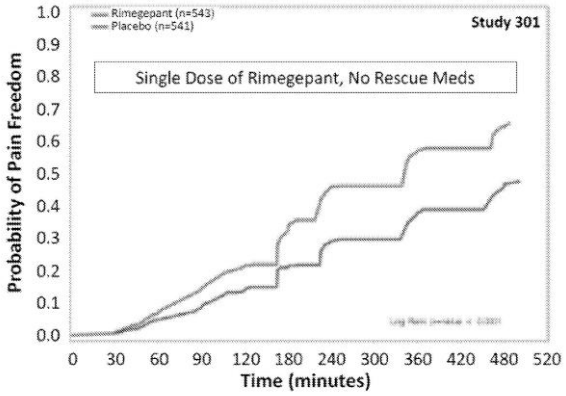


21: 2020/04980. 22: 2020/08/12. 43: 2025/05/07
51: A61K; C12N
71: MeiraGTx UK II Limited, Universität Heidelberg
72: FINN, Jonathan Douglas, GRIMM, Dirk, BÖRNER, Kathleen, SNOEK, Susanne Anna, BROEKSTRA, Niels, VAN DER SANDEN, Sabine Maria Gertrude
33: EP(DE) 31: 18152133.7 32: 2018-01-17
54: A MODIFIED RAAV CAPSID PROTEIN FOR GENE THERAPY
00: -
The invention relates to recombinant adeno-associated virus (rAAV) virions for gene therapy, wherein the rAAV virions comprise a novel capsid protein. In particular,the invention relates to the use of such virions in gene therapy for the treatment of an arthritic disease, such as for example rheumatoid arthritis, or symptoms thereof, preferably by intraarticular administration.

21: 2020/05352. 22: 2020/08/27. 43: 2025/05/07
51: B60K; B60L; H01M
71: Sandvik Mining and Construction Oy
72: HUFF, Brian R.
33: US 31: 15/908,804 32: 2018-02-28
54: ALIGNMENT AND LOCKING MECHANISM FOR REMOVEABLE BATTERY ASSEMBLY
00: -
An alignment and locking system for a battery assembly is disclosed. The system may be located onboard of an electric vehicle powered by a battery pack disposed in the battery assembly. The system includes a set of receiving members fixed to the chassis. The battery assembly includes a cage with mounting bars. When the mounting bars are received in the receiving members they may be locked into place against the chassis. The system can also include a set of v-blocks that engage vertically oriented bars in the cage to help with horizontal alignment of the battery assembly.

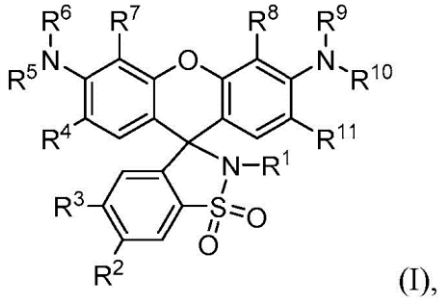


21: 2020/06190. 22: 2020/10/06. 43: 2025/05/07
51: A61K; A61P; C07D
71: Pfizer Ireland Pharmaceuticals Unlimited Company
72: CORIC, Vladimir, CROOP, Robert
33: US 31: 62/647,794 32: 2018-03-25
54: RIMEGEPANT FOR CGRP RELATED DISORDERS
00: -
Disclosed are methods of treating CGRP related disorders, e.g., migraine, by administering to a patient in need thereof rimegepant or a pharmaceutically acceptable salt thereof. Pharmaceutical compositions comprising rimegepant and kits including the pharmaceutical compositions and instructions are also disclosed.

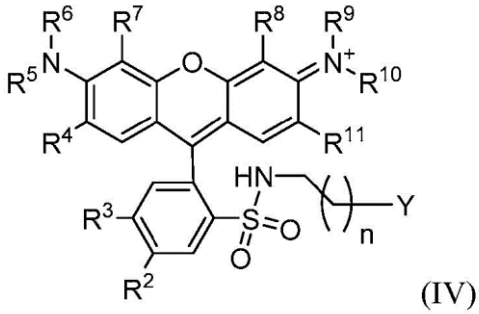


21: 2020/06409. 22: 2020/10/15. 43: 2025/05/07
51: G01N
71: Regeneron Pharmaceuticals, Inc.
72: OLIVEIRA SUMNER, Giane, CHEN, Jihua
33: US 31: 62/696,016 32: 2018-07-10
54: METHODS FOR MITIGATING DRUG TARGET INTERFERENCE IN AN ANTI-DRUG ANTIBODY (ADA) IMMUNOASSAY
00: -
The present disclosure provides methods for mitigating drug target interference in an anti-drug antibody (ADA) immunoassay, wherein the ADA immunoassay comprises one or more target blocking reagents under mild basic pH assay conditions.

21: 2020/06485. 22: 2020/10/19. 43: 2025/05/07
51: C07H; C09B; G01N
71: Cepheid
72: LUND, Kevin P., SERGUEEV, Dmitri, QABAR, Maher N., GALL, Alexander
33: US 31: 62/668,109 32: 2018-05-07
54: SULFORHODAMINE PHOSPHORAMIDITE DYES
00: -
Automated oligonucleotide synthesis-compatible sulforhodamine dye phosphoramidite compounds and labeled polynucleotides incorporating these dyes are provided.



(I),

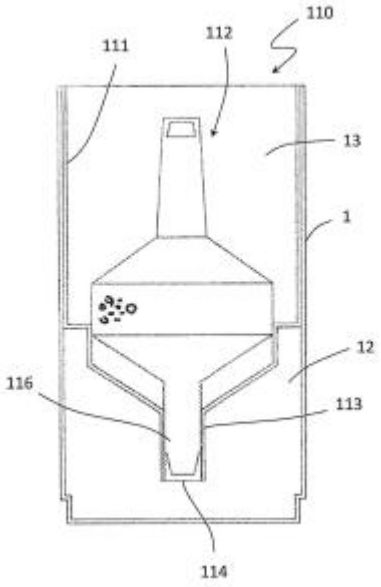


(IV)

21: 2020/06721. 22: 2020/10/28. 43: 2025/05/07
51: A61K
71: Bracco Suisse SA
72: LASSUS, Anne, GORGERAT, Stéphane, YAN, Feng, GUILLOT, Christian, BROCHOT, Jean
33: US 31: 16/028,536 32: 2018-07-06
54: FREEZE-DRIED FORMULATION FOR GAS-FILLED MICROVESICLES
00: -
A freeze-dried powder composition comprising a phospholipid and a polyethylene glycol, said polyethylene glycol having a percentage of folded polymeric chains higher than a predetermined limit. The composition is suitable for preparing gasfilled microvesicles.

21: 2020/07254. 22: 2020/11/20. 43: 2025/05/07
51: A47J; B65B
71: Alistella SA
72: BRIZIO, Adriana
54: PROCESS FOR MAKING A PORTABLE BEVERAGE PRODUCT AND A FILLING LINE THEREFORE
00: -
A process for making a portable beverage product including the steps of: providing a portable container (1) with an aperture; providing a separation device (111) previously equipped with sealing means comprising at least one removable barrier (114); inserting an amount of a drinkable liquid into said

container; inserting said separation device into the container (1) to form a first chamber (12) containing said liquid, a second chamber (13), and a connecting path from the first chamber into the second chamber, said connecting path being closed by the removable barrier (114); inserting at least one second ingredient into said second chamber; closing the aperture of the container with a cover; wherein the separation device is also positioned in such a way that the removable barrier can be removed in response to a user action on the portable beverage product, thus opening the above mentioned connecting path.



21: 2020/07976. 22: 2020/12/21. 43: 2025/06/18
51: G01N
71: PRECISION PLANTING LLC
72: SWANSON, Todd, KOCH, Dale, VACCARI, Adam, LEVY, Kent, O'NEALL, Matthew, SPLECHTER, Hayden, HARMAN, Reid, SCHAEFER, Timothy
33: US 31: 62/696,271 32: 2018-07-10
33: US 31: 62/729,623 32: 2018-09-11
33: US 31: 62/745,606 32: 2018-10-15
33: US 31: 62/792,987 32: 2019-01-16
33: US 31: 62/829,807 32: 2019-04-05
33: US 31: 62/860,297 32: 2019-06-12
54: AGRICULTURAL SAMPLING SYSTEM AND RELATED METHODS
00: -
An automated computer-controlled sampling system and related methods for collecting, processing, and analyzing agricultural samples for various chemical properties such as plant available nutrients. The sampling system allows multiple samples to be processed and analyzed for different analytes or chemical properties in a simultaneous concurrent or semi-concurrent manner. Advantageously, the system can process soil samples in the "as collected" condition without drying or grinding. The system generally includes a sample preparation sub-system which receives soil samples collected by a probe collection sub-system and produces a slurry (i.e. mixture of soil, vegetation, and/or manure and water), and a chemical analysis sub-system which processes the prepared slurry samples for quantifying multiple analytes and/or chemical properties of the sample. The sample preparation and chemical analysis sub-systems can be used to analyze soil, vegetation, and/or manure samples.

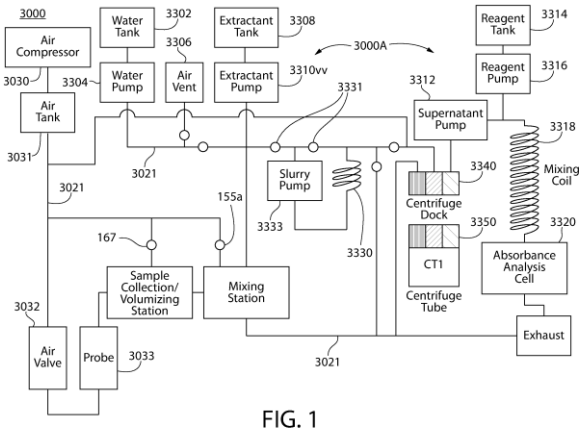
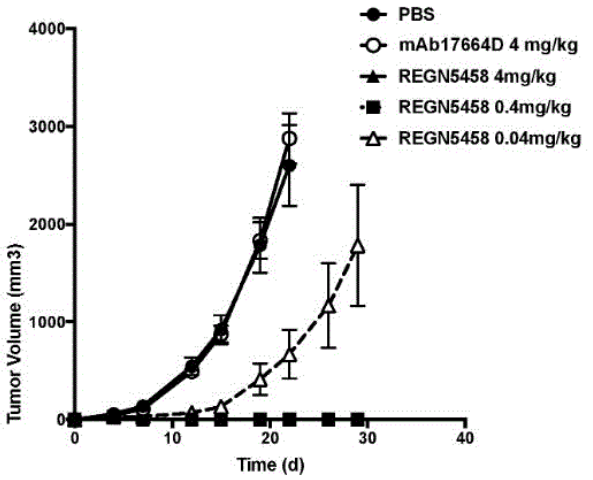


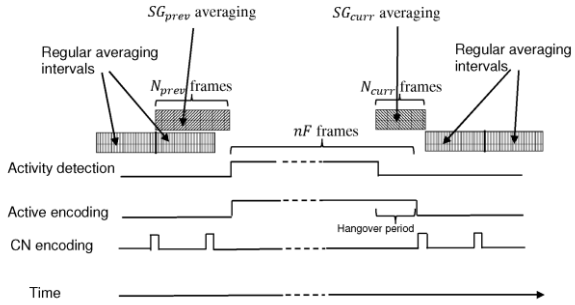
FIG. 1

21: 2021/00087. 22: 2021/01/06. 43: 2025/06/25
51: A61K; C07K; A61P
71: REGENERON PHARMACEUTICALS, INC.
72: KIRSHNER, Jessica, R., DELFINO, Frank, OLSON, Kara L., SMITH, Eric, DILILLO, David, SINESHCHEKOVA, Olga, ZHANG, Qian
33: US 31: 62/700,596 32: 2018-07-19
33: US 31: 62/750,968 32: 2018-10-26
33: US 31: 62/793,645 32: 2019-01-17
54: BISPECIFIC ANTI-BCMA X ANTI-CD3 ANTIBODIES AND USES THEREOF
00: -
B-cell maturation antigen (BCMA) is expressed on malignant plasma cells. The present invention provides novel bispecific antibodies (bsAbs) that bind to both BCMA and CD3 and activate T cells via the CD3 complex in the presence of BCMA-

expressing tumor cells. In certain embodiments, the bispecific antigen-binding molecules of the present invention are capable of inhibiting the growth of tumors expressing BCMA. The bispecific antigen-binding molecules of the invention are useful for the treatment of diseases and disorders in which an upregulated or induced BCMA-targeted immune response is desired and/or therapeutically beneficial. For example, the bispecific antibodies of the invention are useful for the treatment of various cancers, including multiple myeloma.



21: 2021/00122. 22: 2021/01/07. 43: 2025/06/13
51: G10L
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: JANSSON, Fredrik, JANSSON TOFTGÅRD, Tomas
33: US 31: 62/691,069 32: 2018-06-28
54: ADAPTIVE COMFORT NOISE PARAMETER DETERMINATION
00: -
A method for generating a comfort noise (CN) parameter is provided. The method includes receiving an audio input; detecting, with a Voice Activity Detector (VAD), a current inactive segment in the audio input; as a result of detecting, with the VAD, the current inactive segment in the audio input, calculating a CN parameter CNused; and providing the CN parameter CNused to a decoder. The CN parameter CNused is calculated based at least in part on the current inactive segment and a previous inactive segment.

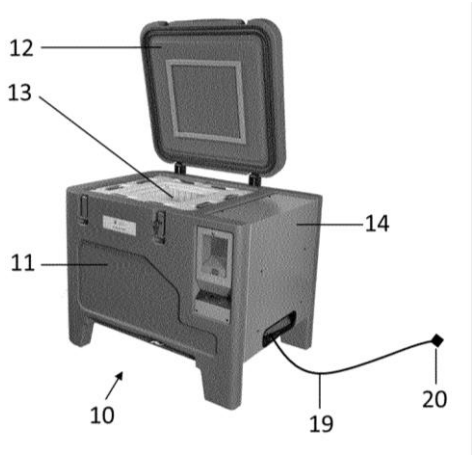


21: 2021/00376. 22: 2021/01/19. 43: 2025/07/10
51: A61K; C07D; A61P
71: TEMMUNE THERAPEUTICS COMM. V.
72: ROGERS, Marc, KIRBY, Robert, SHOMI, Gakujun, MATSUO, Takuya, KOBAYASHI, Satoru, KANAZAWA, Junichiro, YAMAOKA, Nobutaka, TORIZUKA, Makoto, SUZAWA, Koichi
33: GB 31: 1811165.8 32: 2018-07-06
54: HETEROCYCLIC SULFONAMIDE DERIVATIVES AND PHARMACEUTICAL USES THEREOF
00: -
The invention relates to heterocyclic sulfonamide derivatives and their use in the treatment and prophylaxis of autoimmune, inflammatory, cardiovascular, neuronal, auditory, renal and metabolic mediated diseases, and to compositions containing said derivatives and processes for their preparation.

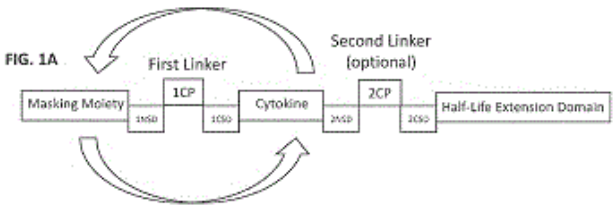
21: 2021/00718. 22: 2021/02/02. 43: 2025/06/09
51: C07K; A61P
71: INVOX PHARMA LIMITED
72: TUNA, Mihriban, GASPAR, Miguel, MORROW, Michelle, POON, Edmund
33: GB 31: 1811407.4 32: 2018-07-12
33: GB 31: 1818281.6 32: 2018-11-09
33: GB 31: 1902598.0 32: 2019-02-26
54: ANTIBODY MOLECULES THAT BIND CD137 AND OX40
00: -
The present application relates to antibody molecules that bind and are able to agonise both CD137 and OX40. The antibody molecules comprise a CDR-based binding site for CD137, and an OX40 antigen-binding site that is located in a constant domain of the antibody molecule. The antibody molecules of the invention find application, for example, in the treatment of diseases, such as cancer and infectious diseases.

21: 2021/00723. 22: 2021/02/02. 43: 2025/06/09
51: A61K; C07K; A61P
71: INVOX PHARMA LIMITED
72: LAKINS, Matthew, MUNOZ-OLAYA, Jose, PECHOUCKOVA, Sarka, TUNA, Mihriban
33: GB 31: 1811408.2 32: 2018-07-12
54: FC BINDING FRAGMENTS COMPRISING A CD137 ANTIGEN-BINDING SITE
00: -
The invention relates to specific binding members that bind CD137. The specific binding members comprise a CD137 antigen-binding site located in a constant domain of the specific binding member and find application in the treatment of cancer and infectious diseases, for example.

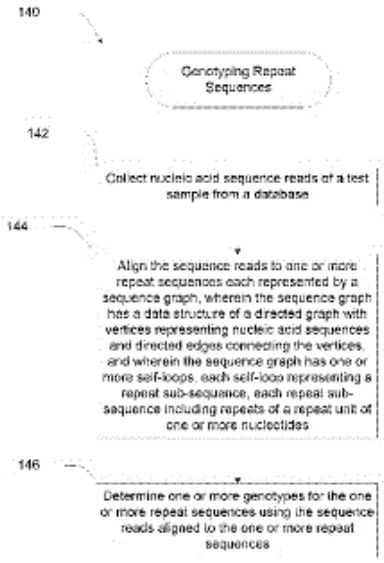
21: 2021/01224. 22: 2021/02/23. 43: 2025/07/09
51: A61J; F25B; F25D
71: B MEDICAL SYSTEMS S.À R.L.
72: RIES, Gilles, SADLER, Vincent
33: GB 31: 1812202.8 32: 2018-07-26
54: ICE-LINED VACCINE REFRIGERATOR
00: -
An ice-lined vaccine refrigerator (10) comprises: a vaccine storage compartment (15); an electrically powered cooling circuit (16), the electrically powered cooling circuit being configured to generate an ice-lining and to cool the vaccine storage compartment; an AC power inlet (17) adapted for connection to an external supply of AC power; and a refrigerant compressor (21) forming part of the electrically powered cooling circuit and adapted to be powered by the external supply of AC power through the AC power inlet. Reliability is improved by using a DC powered compressor and an AC/DC convertor (24) to convert AC power received at the AC power inlet to DC power to power the compressor.



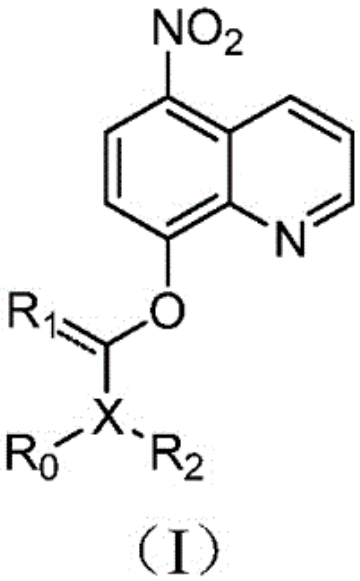
21: 2021/01838. 22: 2021/03/18. 43: 2025/05/28
51: C07K
71: XILIO DEVELOPMENT, INC.
72: KAROW, MARGARET, LAI, DEBORAH MOORE, TOMAR, DHEERAJ, JOHNSON, PARKER, ROZENFELD, RAPHAEL, O'HAGAN, RONAN, QIU, HUAWEI
33: US 31: 62/891,199 32: 2019-08-23
33: US 31: 62/737,803 32: 2018-09-27
33: US 31: 62/888,276 32: 2019-08-16
54: MASKED CYTOKINE POLYPEPTIDES
00: -
Provided herein are cytokines or functional fragments thereof that, in some embodiments, are engineered to be masked by a masking moiety at one or more receptor binding site(s) of the cytokine or functional fragment thereof. In some embodiments, the cytokines are engineered to be activatable by a protease at a target site, such as in a tumor microenvironment, by including a proteolytically cleavable linker. In some embodiments, the proteolytically cleavable linker links the cytokine to the masking moiety, links the cytokine to a half-life extension domain, and/or links the masking moiety to a half-life extension domain. The masking moiety blocks, occludes, inhibits (e.g., decreases) or otherwise prevents (e.g., masks) the activity or binding of the cytokine to its cognate receptor or protein. Upon proteolytic cleavage of the cleavable linker at the target site, the cytokine becomes activated, which renders it capable of binding to its cognate receptor or protein with increased affinity.



21: 2021/02116. 22: 2021/03/29. 43: 2025/05/28
51: G16B
71: ILLUMINA, INC.
72: DOLZHENKO, EGOR, EBERLE, MICHAEL A
33: US 31: 62/815,322 32: 2019-03-07
54: SEQUENCE-GRAPH BASED TOOL FOR DETERMINING VARIATION IN SHORT TANDEM REPEAT REGIONS
00: -
The disclosed embodiments concern methods, apparatus, systems and computer program products for genotyping repeat sequences such as medically significant short tandem repeats (STRs). The methods involve aligning reads to a repeat sequence represented by a sequence graph, and using the aligned reads to genotype the repeat sequence. The sequence graph is a directed graph each including at least one self-loop representing a repeat sub-sequence. In some implementations, the reads are paired end reads, and both mates of each read pair may be used to genotype the repeat sequences. Some implementations can be used to determine degenerate codon repeats. Some implementations can be used to genotype repeat sequences each including two or more repeat sub-sequences. Some implementations can be used to genotype nucleic acid sequences each including at least one repeat sub-sequence and another genetic variant such as an insertion, deletion, or substitution.

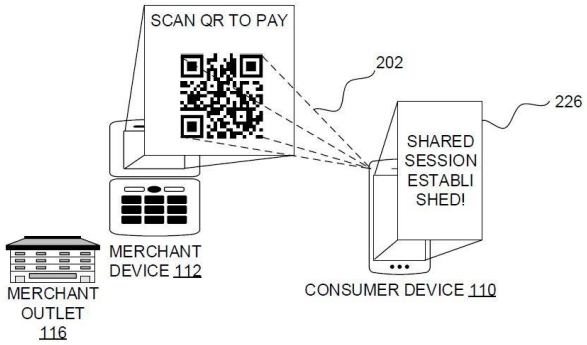


21: 2021/02155. 22: 2021/03/30. 43: 2025/05/28
51: C07D; A61K; A61P
71: JIANGSU YAHONG MEDITECH CO., LTD.
72: DENG, YIJUN, WU, LIANG, PAN, KE
33: CN 31: 201811148314.0 32: 2018-09-29
54: NITROXOLINE PRODRUG AND USE THEREOF
00: -
Provided are a nitroxoline prodrug and a use thereof. Specifically, provided are a compound represented by formula (I) or a pharmaceutically acceptable salt thereof, a preparation method therefor, a composition containing the compound, and a use thereof in the preparation of anti-infective and antitumor drugs, and definitions of groups in formula (I) are as stated in the specification. The compound represented by formula (I) has better pharmacokinetic parameters such as solubility, blood medicine concentration, or half-life period than nitroxoline. The compound represented by formula (I) can reduce the frequency of drug administration, and has potential for application in other fields other than the field of urinary tracts.



(I)

21: 2021/03153. 22: 2021/05/10. 43: 2025/06/09
51: G06Q
71: ENTERSEKT INTERNATIONAL LIMITED
72: OOSTHUIZEN, Gerhard Gysbert, BESTER, Daniël Deetlefs, WESSELS, Tertius, VAN DER MERWE, Jonathan Daniel, LE ROUX, Mercia
33: ZA 31: 2018/07753 32: 2018-11-19
54: ESTABLISHING A SHARED SESSION BETWEEN ENTITIES
00: -
A system and method for establishing a shared session between entities is disclosed. In a method, a first shared session request message being associated with a tag identifier and a first device associated with a first entity is received. The first device is associated with a shared session associated with the tag identifier. A second shared session request message being associated with the tag identifier and a second device associated with a second entity is received. The second device is associated with the shared session. One or both of the first device and the second device having obtained the tag identifier from a tag provided by the first entity or the second entity. The shared session is configured for requesting and providing transaction-related data by and to at least one of the devices associated with the shared session.



21: 2021/05821. 22: 2021/08/16. 43: 2025/05/06
51: A61K; A61P; C07K
71: Eli Lilly and Company
72: ABRAHAM, Milata Mary, ABURUB, Aktham, ALSINA-FERNANDEZ, Jorge, BROWN, Robert Andrew, CABRERA, Over, COSKUN, Tamer, CUMMINS, Robert Chadwick, DATTA-MANNAN, Amita, ELSAYED, Mohamed Elsayed Hamed, LAI, Xianyin, PATEL, Phenil Jayantilal, QU, Hongchang, SLOOP, Kyle Wynn, TRAN, Thi Thanh Huyen, WALLIS, James Lincoln, WILLARD, Francis Stafford
33: US 31: 62/702,072 32: 2018-07-23
54: GIP/GLP1 CO-AGONIST COMPOUNDS
00: -
The present invention relates to compounds having activity at both the human glucose-dependent insulinotropic polypeptide (GIF) and glucagon-like peptide-1 (GLP-1) receptors. The present invention also relates to compounds having an extended duration of action at each of these receptors. Furthermore, the present invention relates to compounds that may be administered orally. Compounds may be useful in the treatment of type 2 diabetes mellitus ("T2DM"). Also, the compounds may be useful in the treatment of obesity.

21: 2021/10266. 22: 2021/12/10. 43: 2025/06/09
51: G06F; H04L; H04W
71: ENTERSEKT INTERNATIONAL LIMITED
72: BESTER, Daniël Deetlefs, OOSTHUIZEN, Gerhard Gysbert, NOLTE, Francois Archibald, DE WET, Petrus Johannes
33: ZA 31: 2019/04570 32: 2019-07-12
54: SYSTEM AND METHOD FOR PROXIMITY-BASED AUTHENTICATION
00: -
A system and method for proximity-based authentication are provided. The method conducted at a server includes receiving identification data from a primary user session on a session end point

hosted on a computing device, the identification data being usable in linking the primary user session to a user record associated with a registered user. The server provides a token to one of the session end point and a registered end point hosted on a computing device, the registered end point associated with the user record, for local transmission from the end point for proximity-based acquisition by the other one of the session end point and a registered end point. The server receives the token from the other one of the session end point and the registered end point to establish physical proximity of the session end point and the registered end point during the primary user session.

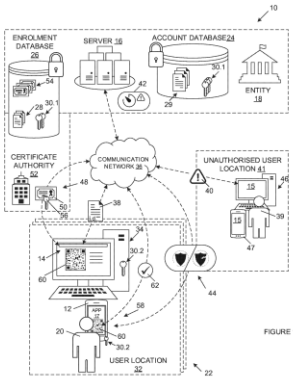


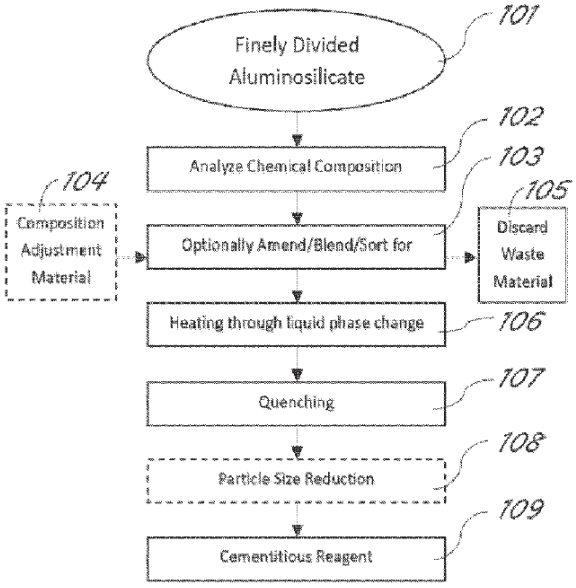
FIGURE 1

21: 2022/01321. 22: 2022/01/27. 43: 2025/04/30
51: C04B
71: TERRA CO2 TECHNOLOGY HOLDINGS, INC.
72: LAKE, Donald
33: US 31: 62/867,480 32: 2019-06-27
33: US 31: 63/004,673 32: 2020-04-03
33: US 31: 63/025,148 32: 2020-05-14

54: CEMENTITIOUS REAGENTS, METHODS OF MANUFACTURING AND USES THEREOF

00: -

Described are cementitious reagent materials produced from globally abundant inorganic feedstocks. Also described are methods for the manufacture of such cementitious reagent materials and forming the reagent materials as microspheroidal glassy particles. Also described are apparatuses, systems and methods for the thermochemical production of glassy cementitious reagents with spheroidal morphology. The apparatuses, systems and methods makes use of an in-flight melting/quenching technology such that solid particles are flown in suspension, melted in suspension, and then quenched in suspension. The cementitious reagents can be used in concrete to substantially reduce the CO2 emission associated with cement production.



21: 2022/01623. 22: 2022/02/07. 43: 2025/07/03
51: G16B
71: ILLUMINA, INC.
72: RIZK, Guillaume Alexandre Pascal
33: US 31: 16/567,211 32: 2019-09-11

54: METHOD FOR THE COMPRESSION OF GENOME SEQUENCE DATA

00: -

The invention relates to a reference-based method for the compression of genome sequence data produced by a sequencing machine. The sequences of nucleotides or bases, that have been previously aligned to a reference sequence, are determined to be perfectly mapped, imperfectly mapped or unmapped with the reference sequence; and then coded according to said determination. The determining step comprises comparing, for each imperfectly mapped sequence, the number of mismatches between said sequence and the reference sequence with a reference threshold value, and encoding the imperfectly mapped sequences according to distinct encoding processes, depending on the result of said comparison method for the compression of genome sequence data produced by a sequencing machine.

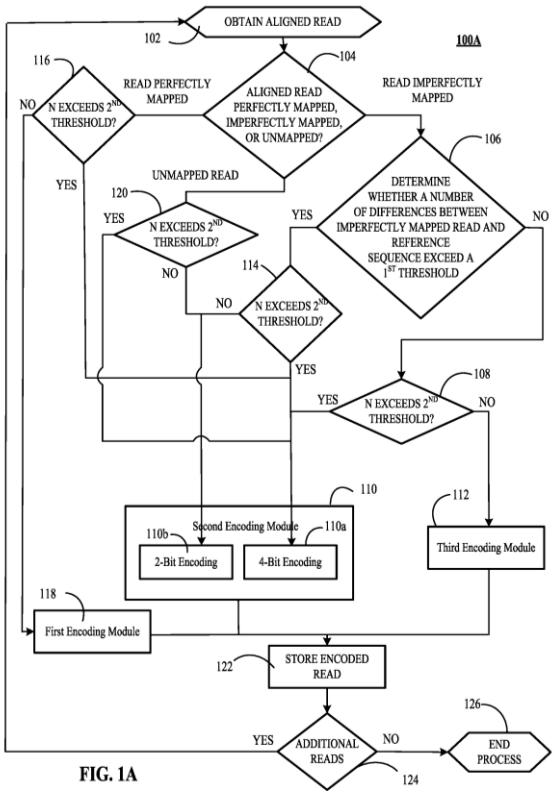


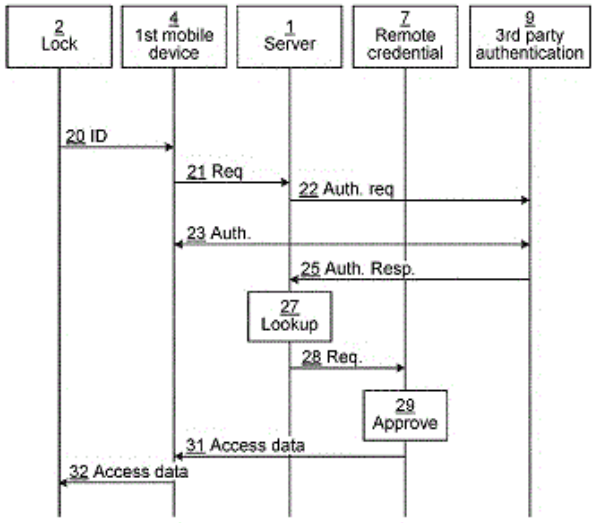
FIG. 1A

21: 2022/02624. 22: 2022/03/03. 43: 2025/05/29
51: G07C
71: ASSA ABLOY AB
72: EINBERG, FREDRIK
33: SE 31: 1951100-5 32: 2019-09-30

54: ENABLING REMOTE UNLOCK OF A LOCK

00: -

It is provided a method for enabling remote unlock of a lock securing access to a physical space. The method is performed in a server and comprises the steps of: receiving, from a first mobile device, an access request to unlock a lock, wherein the request comprises an identifier of the lock and a user identifier associated with an access requester, being a user of the first mobile device; finding a remote credential device being associated with the lock; and transmitting an access request to the remote credential device, the access request comprising an identifier based on the user identifier.

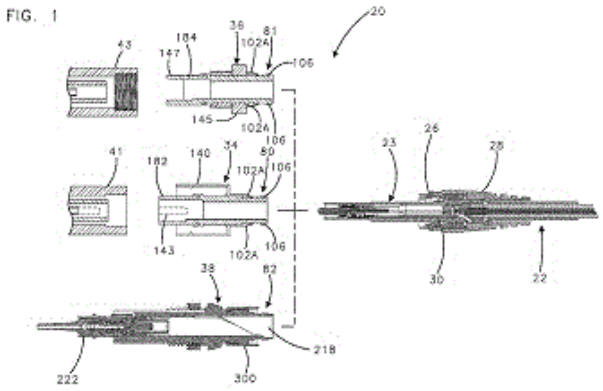


21: 2022/02742. 22: 2022/03/07. 43: 2025/05/29
51: G02B
71: COMMSCOPE TECHNOLOGIES LLC
72: LU, YU, KOSTECKA, RYAN
33: US 31: 62/891,842 32: 2019-08-26
33: US 31: 63/003,988 32: 2020-04-02

54: FIBER OPTIC CONNECTORS AND FIBER OPTIC CONNECTION SYSTEMS

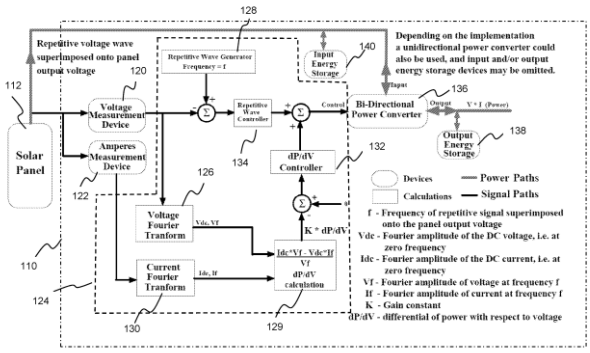
00: -

The present disclosure relates to a system for making or assembling fiber optic connectors that allows a pre-terminated fiber optic cable to be made compatible with any number of different styles or types of fiber optic connectors or fiber optic adapters. A connector core of the system can be used as a stand-alone connector with a small form-factor adapter.



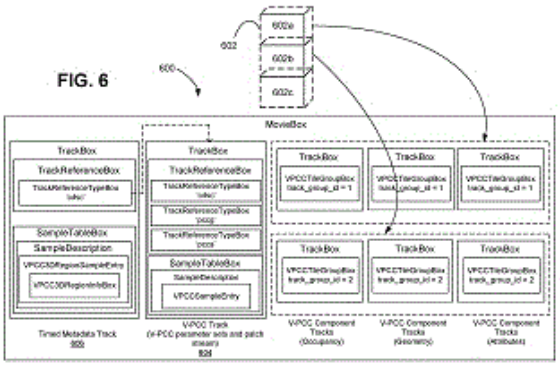
21: 2022/03116. 22: 2022/03/15. 43: 2025/06/25
51: H01L; H02J; H02S
71: COMTECH (AUST) PTY LTD

72: SCHIRMER, Ian
33: AU 31: 2019903171 32: 2019-08-29
54: SOLAR POWER MONITORING AND OPTIMISATION APPARATUS, SYSTEMS AND METHODS
00: -
An apparatus to monitor and optimise power output by one or more solar panels to which the apparatus is coupled comprises a processor configured to generate a periodic wave and apply the periodic wave to an output of the one or more solar panels. Analogue-to-digital voltage and current converters receive voltage and current signals respectively from the one or more solar panels and provide digital voltage and current signals to the processor. The processor is configured to: calculate a voltage amplitude and a direct current offset of the periodic wave applied to the output of the one or more solar panels; calculate a differential of a power and a voltage of the one or more solar panels based on the voltage amplitude and the direct current offset; and modify the voltage of the one or more solar panels such that the differential of the power and the voltage of the one or more solar panels is zero, or substantially zero.



21: 2022/03261. 22: 2022/03/18. 43: 2025/05/29
51: A61K
71: EMORY UNIVERSITY
72: MILLER, ERIC, PRIBUT, NICOLE, D'ERASMO, MICHAEL, DASARI, MADHURI, GIESLER, KYLE, ISKANDAR, SABRINA, LIOTTA, DENNIS C
33: US 31: 62/890,452 32: 2019-08-22
33: US 31: 62/890,684 32: 2019-08-23
54: NUCLEOSIDE PRODRUGS AND USES RELATED THERETO
00: -
Disclosed are acyclic nucleoside prodrugs with improved metabolic stability and oral bioavailability. In general, the prodrugs are derivatives of acyclic nucleoside phosphonates containing a lipid-like moiety that can increase oral absorption and subsequent stability in the liver and plasma. Preferably, the lipid-like moiety can resist enzyme-mediated ω-oxidation, such as ω-oxidation catalyzed by cytochrome P450 enzymes. Also disclosed are pharmaceutical formulations of the acyclic nucleoside prodrugs. The acyclic nucleoside prodrugs and pharmaceutical formulations thereof can be used to treat viral infections, such as HIV infections, and/or viral-associated cancer, such as HPV-associated cancers.

21: 2022/03366. 22: 2022/03/22. 43: 2025/05/29
51: H04N
71: VID SCALE, INC.
72: HAMZA, AHMED, HE, YONG
33: US 31: 62/907,249 32: 2019-09-27
33: US 31: 62/958,031 32: 2020-01-07
54: VIDEO-BASED POINT CLOUD STREAMS
00: -
Systems, methods, and instrumentalities are disclosed that relate to the processing of a media container file associated with 3D video data. The media container file may indicate that certain video-based point cloud compression (V-PCC) component tracks may be played together as a playout group. These V-PCG component tracks may represent respective encoded versions of one or more V-PCC components, and a video decoding device may play the tracks together in response to determining that the tracks belong to the same playout track group. The video decoding device may also determine from the media container file that certain PCC component tracks include tile groups that correspond to different objects in a point cloud or different parts of a same object in the point cloud. The video decoding device may decode these tile groups independently from each other so that a subset of the objects or parts of the point cloud may be accessed without also accessing the rest of the objects or parts.



21: 2022/03408. 22: 2022/03/23. 43: 2025/05/29
51: G16B
71: AMGEN INC.
72: REN, CINDY, BOGGARA, MOHAN B, RATHORE, NITIN, PARTOPOUR, BEHNAM
33: US 31: 62/891,541 32: 2019-08-26
54: SYSTEMS AND METHODS FOR PREDICTION OF PROTEIN FORMULATION PROPERTIES
00: -
In a method for predicting a property of potential protein formulations, a set of formulation descriptors is classified as belonging to a specific one of a plurality of predetermined groups that each correspond to a different value range for a protein formulation property. Classifying the set of descriptors includes applying at least a first portion of the set of descriptors as inputs to a first machine learning model. The method also includes selecting, based on the classification, a second machine learning model from among multiple models corresponding to different groups. The method also includes predicting a value of the protein formulation property that corresponds to the set of descriptors, by applying at least a second portion of the set of formulation descriptors as inputs to the selected model. The method further includes causing the value of the protein formulation property to be displayed to a user and/or stored in a memory.

21: 2022/03460. 22: 2022/03/24. 43: 2025/05/29
51: A61K; C07K; A61P
71: THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA
72: PURÉ, ELLEN, TODD, LESLIE
33: US 31: 62/904,272 32: 2019-09-23
54: MONOCLONAL ANTIBODY AGAINST CANINE FIBROBLAST ACTIVATION PROTEIN THAT CROSS-REACTS WITH MOUSE AND HUMAN FIBROBLAST ACTIVATION PROTEIN (FAP)
00: -
The present invention relates to antibodies, binding polypeptides, and scFvs specific for fibroblast activation protein (FAP) capable of cross reacting with canine, mouse, and human FAP.

21: 2022/03511. 22: 2022/03/25. 43: 2025/05/29
51: C07K; A61K; C12N
71: THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA
72: ALBELDA, STEVEN A, PURE, ELLEN, TODD, LESLIE
33: US 31: 62/904,340 32: 2019-09-23
54: DISRUPTING TUMOR TISSUES BY TARGETING FIBROBLAST ACTIVATION PROTEIN (FAP)
00: -
The present invention relates to compositions and methods comprising a chimeric antigen receptor (CAR) capable of binding fibroblast activation protein (TAP) for use in treating diseases, disorders or conditions associated with the expression of TAP on canine, mouse, or human tumor-associated cells.

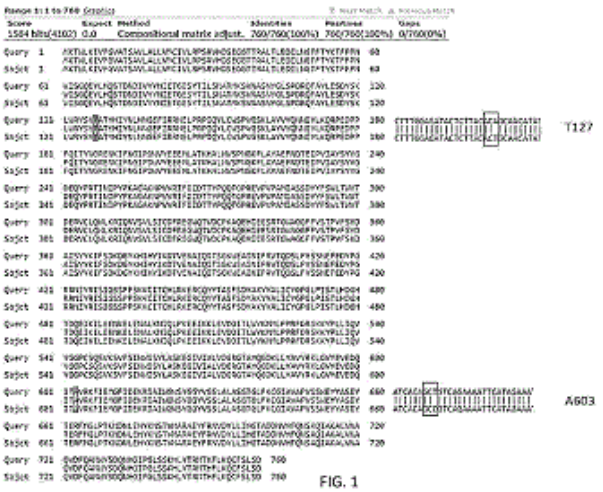
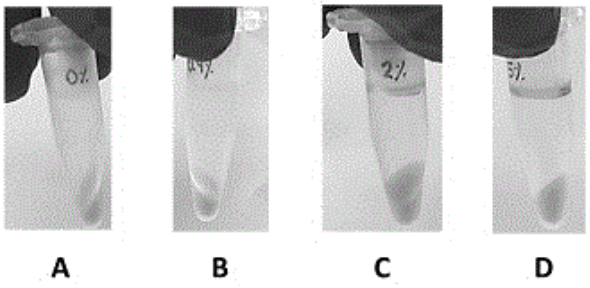


FIG. 1

21: 2022/03563. 22: 2022/03/28. 43: 2025/05/29
51: A61K; A61J; A61P
71: XEOLAS PHARMACEUTICALS LTD.
72: CLANCY, MAURICE JOSEPH ANTHONY, MCDAID, DENNIS MARK, FLYNN, DAMIEN PATRICK
33: US 31: 62/911,035 32: 2019-10-04
33: US 31: 63/062,785 32: 2020-08-07
33: US 31: 62/911,689 32: 2019-10-07

54: PEDIATRIC SUSPENSION FORMULATION
00: -
The present disclosure relates to storage-stable proton pump inhibitor (PPI) systems comprising a therapeutically effective amount of a PPI or a pharmaceutically acceptable salt thereof, such as omeprazole or a pharmaceutically acceptable salt thereof, which are constituted with water prior to administration. The present disclosure also relates to oral pharmaceutical suspensions comprising water, a therapeutically effective amount of a PPI or a pharmaceutically acceptable salt thereof, such as omeprazole or a pharmaceutically acceptable salt thereof, and one or more buffering agents.

21: 2022/03718. 22: 2022/03/31. 43: 2025/05/29
51: C12P
71: FMC AGRICULTURAL SOLUTIONS A/S
72: LORÁNTFY, BETTINA, BORODINA, IRINA
33: EP 31: 19204554.0 32: 2019-10-22
54: IMPROVED METHODS FOR PRODUCTION, RECOVERY AND SECRETION OF HYDROPHOBIC COMPOUNDS IN A FERMENTATION
00: -
The present invention relates to improved methods for producing a hydrophobic compound, in particular a hydrophobic compound which is a pheromone such as an insect pheromone, in a fermentation process involving cultivation of a microorganism such as a yeast, said microorganism producing said hydrophobic compound, wherein the methods facilitate recovery of the hydrophobic compound from the fermentation broth, increase the titer of the hydrophobic compound and/or increase secretion of the hydrophobic compound from the microorganism.



21: 2022/08956. 22: 2022/08/10. 43: 2025/05/26
51: F42C
71: KNDS Deutschland GmbH & Co. KG
72: HILD, Simon, SCHNEIDER, Lars
33: DE 31: 10 2020 108 567.2 32: 2020-03-27
54: PROGRAMMING DEVICE
00: -
The invention relates to a programming device (1) for programming of, in particular, large-calibre munition bodies (101), comprising a retaining device (3) to which a programming head (2) for transmitting programming data to the munition bodies (101) is fastened, the programming head (2) being designed as an interchangeable programming head module. The invention further relates to a projectile rammer (100) having a programming device (1) and to a method for programming a munition body (101).

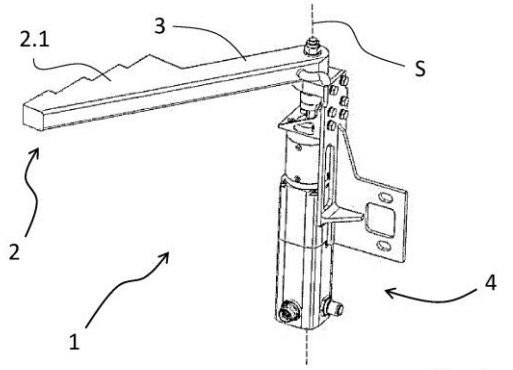
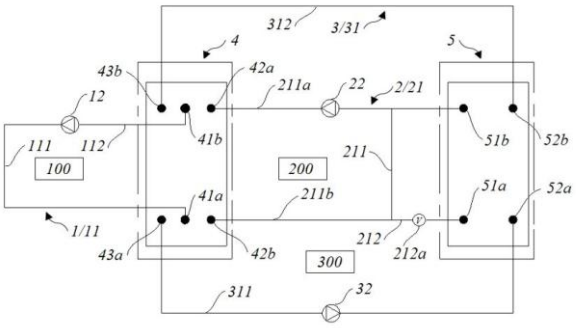


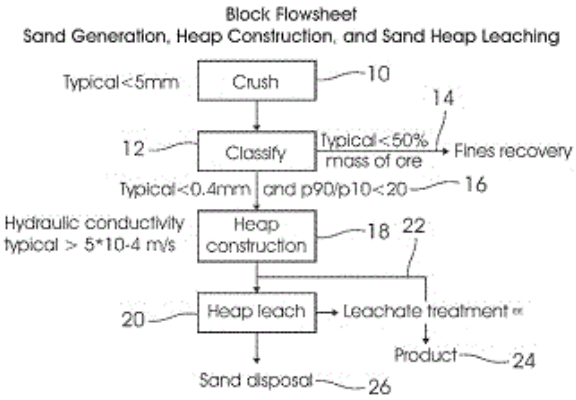
Fig. 1a

21: 2022/11947. 22: 2022/11/02. 43: 2025/07/07
51: F03D
71: GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.
72: WANG, Dinghui, FANG, Tao, LI, Jinmeng
33: CN 31: 202010516556.1 32: 2020-06-09
54: COOLING SYSTEM AND WIND-DRIVEN GENERATOR SYSTEM
00: -
A cooling system and a wind-driven generator system. The cooling system comprising: a first cooling loop (1), a second cooling loop (2), a third cooling loop (3), a first heat exchanger (4) and a second heat exchanger (5), wherein the first cooling loop (1) comprises a first fluid pipeline (11) and a first pump set (12); the second cooling loop (2) comprises a second fluid pipeline (21) and a second pump set (22), and the second fluid pipeline (21) comprises a main path (211) and a bypass (212); the third cooling loop (3) comprises a third fluid pipeline (31) and a third pump set (32), and the third fluid pipeline (31) communicates with both the first heat exchanger (4) and the second heat exchanger

(5); the first heat exchanger (4) is configured to thermally couple the first cooling medium, the second cooling medium and the third cooling medium to one another in a manner in which the first cooling medium, the second cooling medium and the third cooling medium are isolated from one another; the second heat exchanger (5) is configured to thermally couple the second cooling medium to the third cooling medium through the bypass (212) in a manner in which the second cooling medium and the third cooling medium are isolated from each another. The system realizes the appropriate distribution of cooling capacity and the appropriate application of residual heat through the thermal coupling between each cooling loop, so as to realize the balanced utilization of cold capacity and heat capacity and reduce the power consumption of the system.



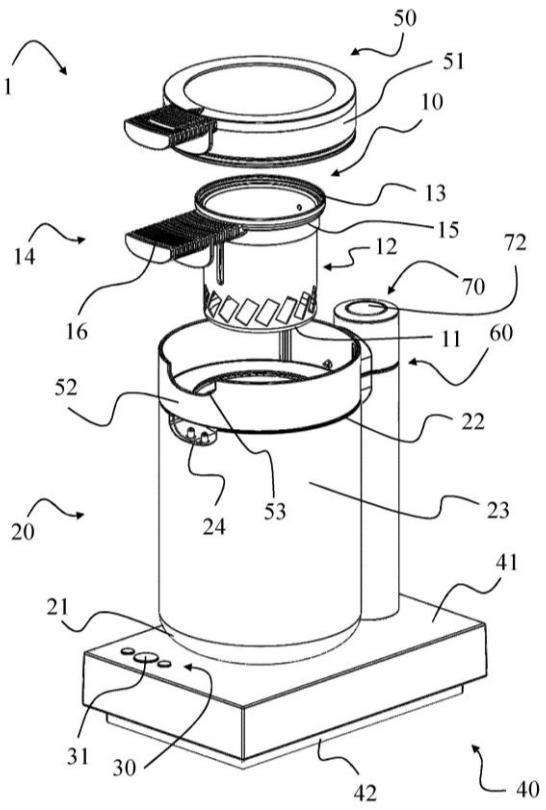
21: 2022/12461. 22: 2022/11/15. 43: 2025/05/16
51: C22B
71: ANGLO AMERICAN TECHNICAL & SUSTAINABILITY SERVICES LTD, ANGLO CORPORATE SERVICES SOUTH AFRICA (PTY) LTD.
72: DANIEL JOHN ALEXANDER, ANTHONY OWEN FILMER, CHRISTOPHER ALAN BILEY
33: US 31: 63/028,616 32: 2020-05-22
54: HEAP LEACHING
00: -
This invention relates to a method of recovering metal values such as gold, copper, nickel, zinc and uranium from ores containing said metal values. The method includes the steps of crushing an ore (10) to provide a sand containing metal values with a P_{80} of less than 5mm but greater than 1mm; classifying the sand (12) to remove a finer fraction to provide classified sand with a P_{10} of greater than 0.15mm, and a P_{90}/P_{10} ratio of less than 25 and greater than 3, forming a heap (18) from the classified sand, and distributing leachant and air through the heap to leach the values from the sand in a pregnant leachate, from which the leached values may be recovered. The invention also relates to a heap formed from ore processed by this method.



21: 2022/13151. 22: 2022/12/05. 43: 2025/06/04
51: C01B; C01C; H01M
71: YARA INTERNATIONAL ASA
72: WALLER, David, RASTEN, Egil, LARRING, Yngve
33: EP 31: 20184486.7 32: 2020-07-07
54: METHOD FOR OPERATING AN SOFC FOR THE COMBINED PRODUCTION OF ELECTRICITY AND NITRIC OXIDE
00: -
The present disclosure discloses a method for the combined production of electricity and nitric oxide. The method comprises the steps of: providing an SOFC comprising an anodic side comprising a solid gas-permeable anode, a gas inlet and a gas outlet, a cathodic side comprising a solid gas-permeable cathode and a gas inlet and a gas outlet, and a fully dense solid electrolyte, separating the cathodic side from the anodic side; introducing an oxygen-containing gas in the inlet of the cathodic side of the SOFC; introducing an ammonia-containing gas stream in the inlet of the anodic side of the SOFC; collecting nitric oxide at the outlet of the anodic side and collecting a current flowing between the anodic side and the cathodic side. The cathode comprises a material suitable for reducing the oxygen in the oxygen-containing gas and the anode comprises a composition $A_{1-X}A'_XB_{1-Y}B'_YO_{3-\delta}$, wherein A is selected from the group consisting of La, Y, Sm, Pr, Nd and Gd, A' is selected from the group consisting of Ca, Sr and Ba, B and B' are each independently selected from the group consisting of Co, Fe, Mn, Cr and V or mixtures thereof, X ranges from 0.05 to 0.6 and in particular from 0.1 to 0.4, Y ranges from 0 to 1 and δ ranges from 0.025 to 0.3 The present disclosure further relates to an SOFC and stack thereof for performing the method of the disclosure,

to a method for producing nitric acid and to a system thereof, and to the use of the anode in the methods and SOFC and stack thereof.

21: 2023/00161. 22: 2023/01/03. 43: 2025/05/09
51: A23F; A23N; A47J
71: Société des Produits Nestlé S.A.
72: SAVIOZ, Grégory, GEBS, Jonathan, SCORRANO, Lucio
33: EP(CH) 31: 20179335.3 32: 2020-06-10
54: APPARATUS FOR ROASTING COFFEE BEANS
00: -
The invention relates to an apparatus (1) for simpler sensing the temperature in roasting of coffee. The apparatus (1) is provided for roasting coffee beans and comprises: a chamber (to) in which coffee beans can be received for roasting, and a device (80) for roasting the coffee beans received in the chamber (to). The chamber (to) is delimited by at least a bottom (n) and a sidewall (12) extending from the bottom (11), wherein the sidewall (12) comprises an outer side (121) oriented to face away from the chamber (10), and wherein a temperature sensor (90) is provided at the outer side (121) of the sidewall (12) for sensing a temperature inside of the chamber (10).



21: 2023/00320. 22: 2023/01/06. 43: 2025/05/09
51: C07H
71: Les Laboratoires Servier
72: SCHIAVI, Bruno, BESCOND, Philippe, MOUCHET, Patrick
33: EP(FR) 31: 20315345.7 32: 2020-07-09
54: DIOSMIN PREPARATION METHOD
00: -
Diosmin preparation method.

21: 2023/00446. 22: 2023/01/10. 43: 2025/05/09
51: E21B; E21F; F42D
71: Rattlejack Innovations Pty Ltd
72: SUTTON, Leigh Maurice
33: AU 31: 2020902419 32: 2020-07-14
54: A SAFETY PLUG
00: -
A safety plug (10) for use in a bore hole (12) comprising a bore wall (14). The safety plug comprises a body (22) having a leading end (24) and a trailing end (26), and at least one flared portion (32). An anchoring element (36) extends at least partially around an associated flared portion (32). Axially displacement of anchoring element (36) relative to its associated flared portion (32) causes the anchoring element to bear against the flared portion and transitions the anchoring element between an unexpanded condition and an expanded condition. A nose, comprising conical elements (46), extends longitudinally from the leading end of body (22). The nose is longitudinally compressible.

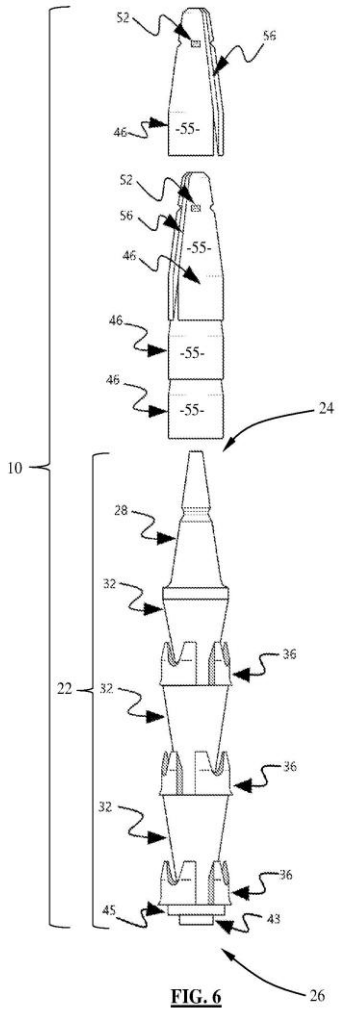


FIG. 6

21: 2023/00558. 22: 2023/01/12. 43: 2025/06/09
51: C25B
71: KEY DH IP INC./IP STRATÉGIQUES DH, INC.
72: STUART, Andrew T. B., LACHANCE, Raynald G., STUART, Edward D. B., STUART, Samantha E. L., SPAL, Jaideep S.
33: US 31: 63/053,264 32: 2020-07-17
33: US 31: 16/994,125 32: 2020-08-14

54: COMBINED CURRENT CARRIER CIRCULATION CHAMBER AND FRAME FOR USE IN UNIPOLAR ELECTROCHEMICAL DEVICES

00: -

Disclosed is a combined electrical current carrier, circulation chamber and frame (CCF) formed as a single or double part (CCF) for use in unipolar electrochemical devices, such as a filter press electrolyser apparatus. The CCF is structured to define an internal circulation chamber for circulation of electrolyte, products, and reactants as well as apertures which form flow passageways when the filter press device is assembled. Affixed on opposed surfaces of the CCFs are electrically conductive planar electroactive structures which are in electrical contact with the CCF. The circulation chamber is formed by the depth of the CCF itself between opposing electroactive structures. Multiple CCFs are assembled and compressed together to form the filter press electrolyser apparatus. The flow passageway apertures within the assembled filter press electrolyser are aligned to form flow pathways, located above and below the circulation chambers. Reactants and electrolyte are input along the bottom flow pathways. When power is applied to the CCFs and electroactive structures, the reactants, once they flow into the circulation chamber with the electrolyte, undergo redox reactions to produce the products which are then collected and exit the electrolyser in the upper flow pathways.

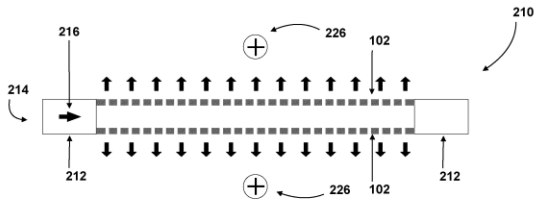


FIGURE 1A

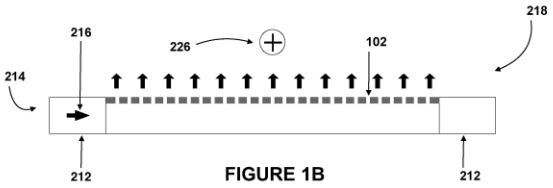


FIGURE 1B

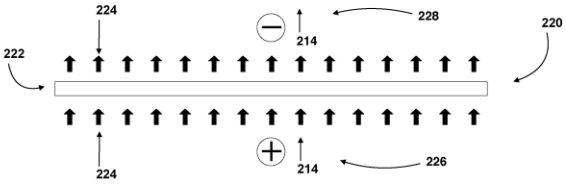
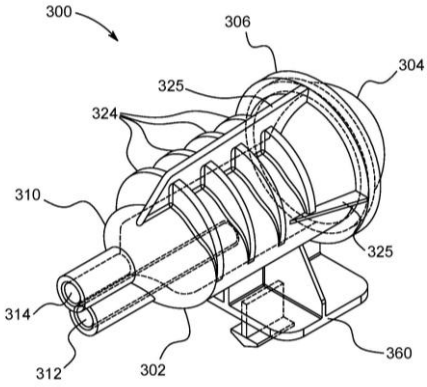


FIGURE 1C

21: 2023/00776. 22: 2023/01/17. 43: 2025/05/09
51: A61M
71: Bayer HealthCare, LLC
72: COWAN, Kevin, DEDIG, James, SPOHN, Michael, HAURY, John, UBER III, Arthur
33: US 31: 62/705,250 32: 2020-06-18

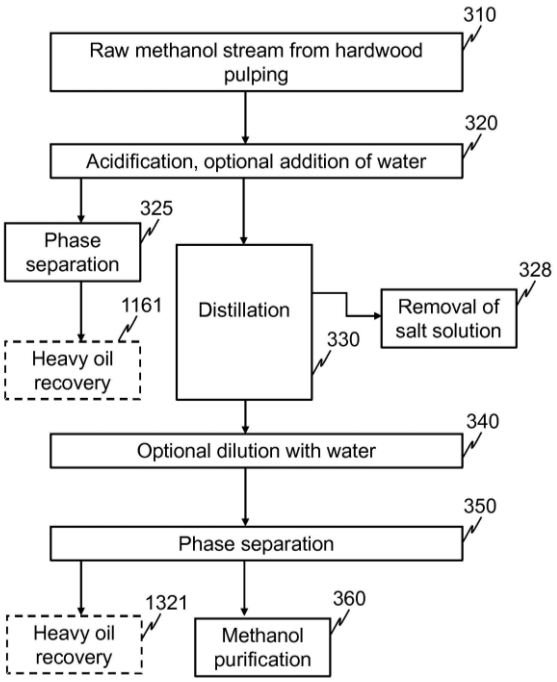
54: IN-LINE AIR BUBBLE SUSPENSION APPARATUS FOR ANGIOGRAPHY INJECTOR FLUID PATHS

00: -
An apparatus (300) for suspending air bubbles in a fluid path of a fluid injector system includes an internal chamber (320) having a curved interior wall (322) defined within the housing (310), an inlet fluid pathway in fluid communication with the internal chamber, and an outlet fluid pathway in fluid communication with the internal chamber. The inlet fluid pathway extending into the chamber at a tangent to the curved interior wall, and the outlet fluid pathway spaced from the inlet fluid pathway such that fluid flowing into the internal chamber via the inlet fluid pathway is directed away from the outlet fluid pathway. The internal chamber is configured to create an internal fluid vortex in an injection fluid entering the internal chamber from the inlet fluid pathway, and wherein the internal fluid vortex at least temporarily suspends air bubbles in the fluid in the internal vortex and delays the passage of the air bubbles to the outlet fluid pathway.



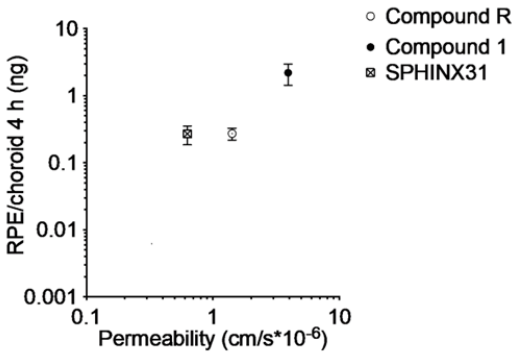
21: 2023/00991. 22: 2023/01/23. 43: 2025/05/09
51: C11D
71: Colgate-Palmolive Company
72: SANCHEZ, Sandra Paola, MALDONADO, Raul Arellano, LOPEZ, Carla, HERNANDEZ, Marcela
33: US 31: 63/059,667 32: 2020-07-31
54: FABRIC SOFTENING COMPOSITIONS
00: -
Described herein are fabric softening compositions novel fabric softeners and conditioners that comprises a formula with a polyhydric alcohol (e.g., glycerin) and a nonionic cellulose ether (e.g., hydroxyethyl cellulose (HEC)) backbone, and a plant-based softening agent comprising one or more agents selected from: a plasticizer, wherein the plasticizer is further selected from the group consisting of isopropyl myristate, isopropyl palmitate, isodecyl neopentanoate, isodecyl oleate, and diisopropyl adipate, or a partially hydrolyzed plant protein. Methods of manufacturing are also contemplated.

21: 2023/01045. 22: 2023/01/24. 43: 2025/05/09
51: C07C; D21C
71: Andritz Oy
72: OLSSON, Johan
33: FI 31: 20205697 32: 2020-06-30
54: A METHOD OF PURIFYING RAW METHANOL
00: -
The present disclosure provides a method of purifying raw methanol obtained in chemical pulping, wherein heavy oil is admixed with the raw methanol to prevent precipitation, and the methanol mixture is distilled or evaporated to recover the methanol.

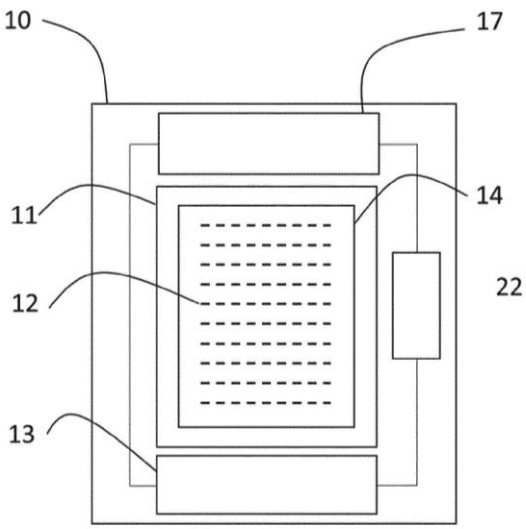


21: 2023/01105. 22: 2023/01/26. 43: 2025/05/09
51: A61K; C07D; A61P
71: EXONATE LIMITED
72: BAXTER, Andrew Douglas, MORRIS, Jonathan
33: GB 31: 2010829.6 32: 2020-07-14
54: 1-METHYL-1H-PYRAZOL-3-YL DERIVATIVES FOR USE IN THE TREATMENT OF NEOVASCULAR DISEASES
00: -

Anti-angiogenic treatments and compounds for use in anti-angiogenic treatments, particularly of conditions associated with abnormal angiogenesis or abnormal over-production of pro- angiogenic VEGFxxx isoforms in or on the eye are described.



21: 2023/01148. 22: 2023/01/27. 43: 2025/05/09
51: G07D
71: SICPA HOLDING SA
72: DEMANGE, Raynald, MAYER, Alain, NICOLOV, Kalin, SUICHIES, Bart, REINHARD, Christine
33: EP(CH) 31: 20183032.0 32: 2020-06-30
54: SECURE CONTAINER FOR STORING OR TRANSPORTING VALUE DOCUMENTS, AND SYSTEM FOR SECURING STORAGE AND TRANSPORTATION OF VALUE DOCUMENTS
00: -
The invention relates to a secure container for storing value documents, e.g. banknotes, having respective value document identification numbers marked thereon, and a corresponding securing system that, upon detection of an intrusion, neutralizes the value documents and delivers in real time over a communication network an alert message containing at least the value document identification numbers to authorities and/or ATMs or carrier, and prevents any transaction based on said neutralized value documents via said ATMs.



21: 2023/01374. 22: 2023/02/02. 43: 2025/05/09
51: A61F
71: Edwards Lifesciences Corporation
72: BIALAS, Michael R., HICKS, Kristen, MURAD, Michael C., SENESH, Gil, ANGELICO, Gonzalo German, CERQUEIRA, Carla Susana, LOW, Victoria Mariko, FERNANDEZ, Andrea, NGUYEN, Kim D., HOANG, Lien Huong Thi, DO, Vicky Hong, HOYE, Shannon Nicole, WHITEHEAD, Haley Nicole, WINTERS, Taylor Michael, BRITZMAN, Karl J.
33: US 31: 63/069,567 32: 2020-08-24
54: BALLOON COVER FOR A DELIVERY APPARATUS FOR AN EXPANDABLE PROSTHETIC HEART VALVE
00: -
Balloon covers for a delivery apparatus for a prosthetic valve are disclosed. As one embodiment, a balloon cover includes first and second shell members that are configured to matingly engage with each other, each of the first and second shell members including a first portion and a second portion, the second portion having a larger width than the first portion. The first portions of the first and second shell members define a first cavity configured to receive a distal end portion of the delivery apparatus and at least a portion of an inflatable balloon mounted on the distal end portion of the delivery apparatus. The second portions of the first and second shell members define a second cavity configured to receive a positioning device mounted on the distal end portion of the delivery apparatus, proximal to a valve mounting portion of the distal end portion of the delivery apparatus.

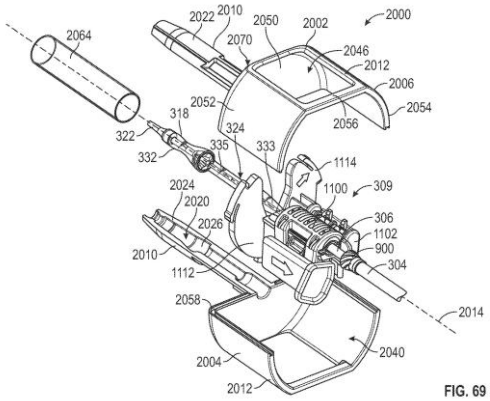
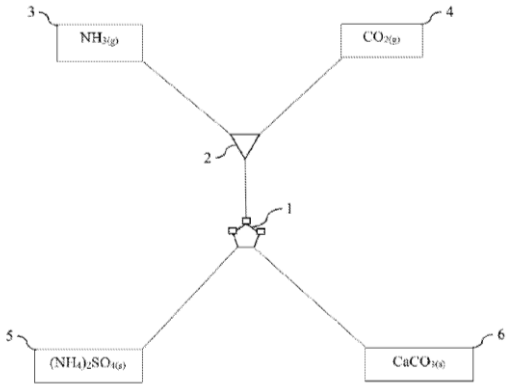
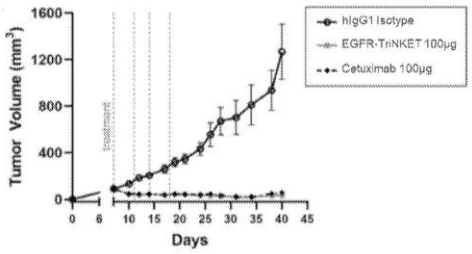


FIG. 69

21: 2023/01387. 22: 2023/02/02. 43: 2025/06/13
51: B09B; C01C; C01F
71: OCP SA, UNIVERSITE MOHAMED VI POLYTECHNIQUE
72: HASSOUNE, Hicham, LACHEHAB, Adil, BOULIF, Rachid
33: FR 31: 2008203 32: 2020-07-31
54: METHOD FOR MANUFACTURING AMMONIUM SULPHATE AND CALCIUM CARBONATE FROM PHOSPHOGYPSUM
00: -
The invention relates to a method for manufacturing ammonium sulphate and calcium carbonate from phosphogypsum, characterised in that it comprises the following steps: - dispersing phosphogypsum in water to form a phosphogypsum liquid suspension, - sparging gaseous carbon dioxide and gaseous ammonia in the phosphogypsum liquid suspension to precipitate calcium carbonate, - filtering the phosphogypsum liquid suspension to produce a filtrate comprising ammonium sulphate, and a solid residue comprising the calcium carbonate precipitate, - evaporating the filtrate to produce ammonium sulphate and drying the solid residue to produce calcium carbonate.

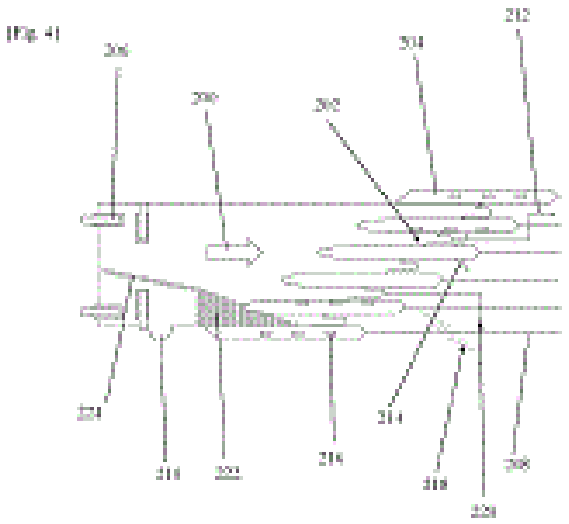


21: 2023/01445. 22: 2023/02/03. 43: 2025/05/09
51: A61P; C07K
71: Dragonfly Therapeutics, Inc.
72: CHEUNG, Ann F., DRABIC, Stacey V., GRINBERG, Asya, JUO, Zong Sean, LIHARSKA, Katia, MORGAN, Christopher Ryan, WAGTMANN, Nicolai
33: US 31: 63/061,510 32: 2020-08-05
54: PROTEINS BINDING NKG2D, CD16 AND EGFR
00: -
Described herein are multispecific binding proteins that bind NKG2D receptor, CD 16, and EGFR, as well as pharmaceutical compositions and therapeutic methods useful for the treatment of cancer.



21: 2023/01579. 22: 2023/02/08. 43: 2025/05/02
51: E21D
71: HYPERTUNNEL IP LIMITED
72: MEEKS, Alan, JORDAN, Steve
33: GB 31: 2014848.2 32: 2020-09-21
54: TUNNELLING SHIELD
00: -
Tunnel Boring Machines (TBMs) are known that comprise a large metal cylindrical shield fronted by a rotating cutting wheel and containing a chamber where the excavated soil is deposited (and optionally mixed with slurry for extraction, depending on the type of geological/soil conditions). However, TBMs have various disadvantages including the stop-start

nature of their tunnelling, and that a single TBM cannot easily transition between different rock/soil types (especially heavily fractured and sheared rock layers). The invention provides a tunnelling shield provided with jet grouting tools arranged to project from a leading edge thereof. In this way, the quality of the geological material into which the tunnel is being excavated may be improved dynamically as part of the excavation process.



21: 2023/01982. 22: 2023/02/17. 43: 2025/06/18
51: C02F
71: UNIVERSITY OF VENDA
72: ODIYO, John Ogony, ADEEYO, Adeyemi Ojutalayo, ENITAN-FOLAMI, Abimbola Motunrayo, MAKUNGO, Rachel
33: ZA 31: 2022/02330 32: 2022-02-24
54: DICEROCARYUM ERIOCARPUM PLANT EXTRACT-METAL NANOPARTICLES FOR WATER PURIFICATION AND DISINFECTION
00: -
The invention describes an agent for both the purification and disinfection of water comprising or consisting of Dicerocaryum eriocarpum (D. eriocarpum) plant extract-metal-nanoparticles, and to a method of purification and disinfection of water with the use of agent. The invention also relates to a process for the manufacture of the agent of the invention. In particular, the metal is silver.

21: 2023/01986. 22: 2023/02/17. 43: 2025/06/05
51: B67D
71: HEINEKEN SUPPLY CHAIN B.V.
72: VAN GEIJLSWIJK, Petrus Johannes
33: EP 31: 20194439.4 32: 2020-09-03
54: DEVICE FOR COOLING A BEVERAGE COMPRISING A BUFFER MODULE
00: -
A cooling device comprises a buffer circuit comprising a cooling unit for cooling coolant and a reservoir for buffering cooled coolant and a primary cooling circuit for providing coolant to a first heat exchanger. The first heat exchanger is arranged for exchange of thermal energy between the coolant and beverage in a dispensing line. The primary cooling circuit and the buffer circuit are connected to enable exchange of coolant. The cooling device comprises a coolant distribution module arrange to control exchange of coolant between the primary cooling circuit and the buffer circuit. The coolant distribution module may control at least one of valves as passive components and pumps as active components, in at least one of the primary cooling circuit and the buffer circuit. The coolant distribution module may operate based on coolant temperature in the primary cooling circuit.

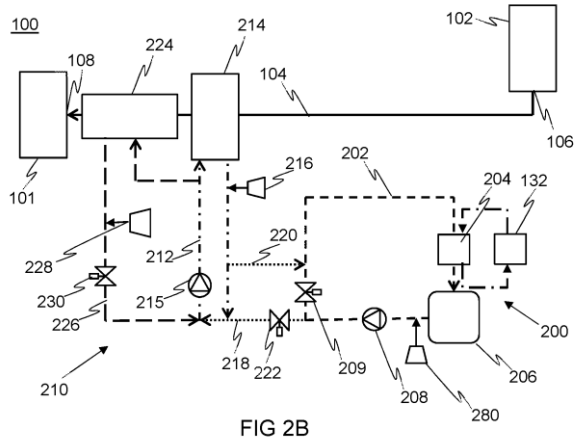
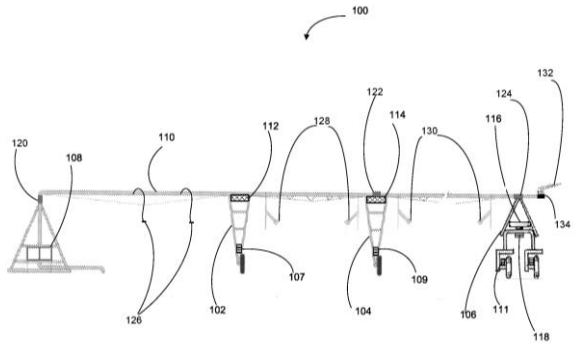


FIG 2B

21: 2023/02290. 22: 2023/02/22. 43: 2025/06/06
51: G05B; G05D
71: VALMONT INDUSTRIES, INC.
72: MOELLER, Mark
33: US 31: 63/058,560 32: 2020-07-30
54: SYSTEM AND METHOD FOR DETECTING END GUN STATUS
00: -
The present invention provides a system and method for using a small, wireless gyroscopic sensor to monitor end gun operations. Further, the present invention provides a system and method for using an accelerometer to detect vibrations at the end gun.

According to further preferred embodiments, the present invention includes a diagnostic application which receives gyroscopic sensor data and accelerometer data. The diagnostic applications of the present invention preferably include logic and threshold limits which are applied to the received data. The present system preferably provides notifications and warnings based on detected changes in rotational motion, orientation changes and vibration levels in and around the end gun.



21: 2023/03271. 22: 2023/03/02. 43: 2025/07/09
51: A61K; A61P
71: ALZPROTECT
72: CALLIZOT, Noëlle, ESTRELLA, Cécilia, BARRIER, Mathieu, VERWAERDE, Philippe
33: EP 31: 20306168.4 32: 2020-10-07
54: USE OF N-(3-(4-(3-(DIISOBUTYLAMINO)PROPYL)PIPERAZIN-1-YL)PROPYL)-1H-BENZO[D]IMIDAZOL-2-AMINE SULPHATE SALTS AND SOLVATES THEREOF FOR THE TREATMENT OF MOTOR NEURON DISEASES AND NEUROMUSCULAR JUNCTION DISORDERS
00: -
The present invention relates to sulphate salts of N-(3-(4-(3-(diisobutylamino)propyl)piperazin-1-yl)propyl)-1H-benzo[d]imidazol-2-amine and pharmaceutically acceptable solvates thereof, for use in the treatment and/or prevention of motor neuron diseases and neuromuscular junction disorders.

21: 2023/03477. 22: 2023/03/10. 43: 2025/06/13
51: B08B
71: METSO USA INC.
72: SHUMKA, Jason, SHUMKA, Thomas
33: CA 31: 3092853 32: 2020-09-11
54: RECIPROCATING PRESSURE WASHER SYSTEM FOR CLEANING OPEN GEARS
00: -
An apparatus for cleaning industrial gear teeth is provided, the apparatus comprising: a framework; at least one rail mounted on the framework and extending at least a part of a length of the framework; a gantry in slidable engagement with the rail; a stepper motor mounted on the framework and in motive communication with the gantry; a pair of limit switches which are slidably mounted on the rail; a window which is attached to the framework behind the rail, extends along the part of the length of the framework and includes a horizontal slot which extends along the part of the length of the framework; a pipe which is attached to the gantry and extends through the horizontal slot, the pipe for attachment to a source of pressurized cleaning fluid; and a microprocessor which is in electronic communication with the stepper motor and the limit switches.

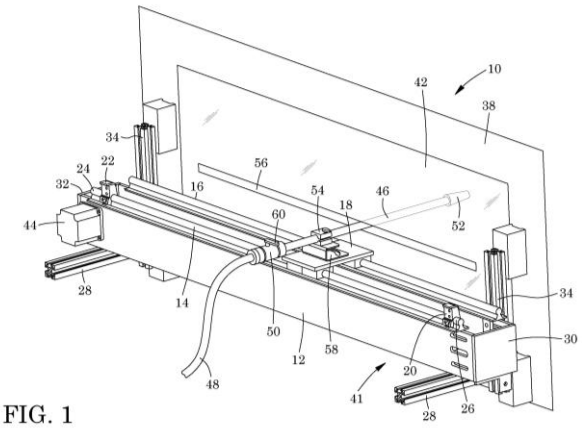


FIG. 1

21: 2023/03745. 22: 2023/03/22. 43: 2025/05/08
51: E04F
71: VÄLINGE INNOVATION AB
72: BOO, CHRISTIAN
33: SE 31: 2051244-8 32: 2020-10-23
33: SE 31: 2150834-6 32: 2021-06-29
54: BUILDING PANEL WITH FIRST AND SECOND LOCKING SYSTEM
00: -
A set of building panels including a first mechanical locking system at respective first and second opposite edges. The first mechanical locking system including at one of the first or second opposite edges a tongue groove configured to receive a locking tongue of the other of the first or second edges, for vertical locking of adjacent essentially identical

panels in an assembled position. The locking tongue includes an essentially horizontal and/or upwards-facing upper surface. A second mechanical locking system is formed on respective third and fourth opposite edges. The second mechanical locking system includes at one of the third or fourth edges a wedge groove configured to receive a displaceable locking tongue, for vertical locking of essentially identical adjacent panels in an assembled position. The displaceable locking tongue is configured to displace in a displacement groove provided in the said other of the third or fourth edge.

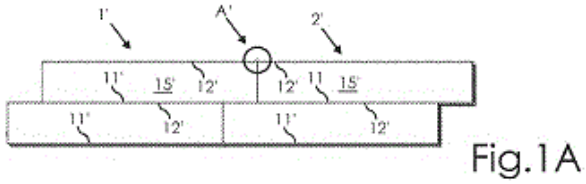
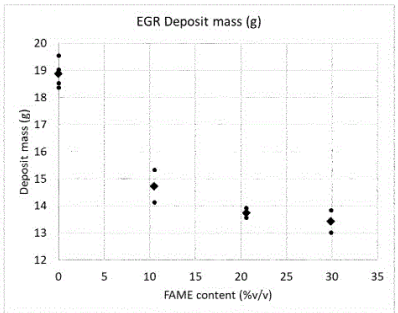
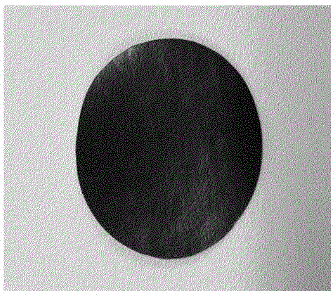


Fig.1A

21: 2023/03771. 22: 2023/03/23. 43: 2025/06/25
51: C10L
71: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.
72: WILLIAMS, Rodney, Glyn, RIMMER, John, Jeffrey
33: EP 31: 20202833.8 32: 2020-10-20
54: USE OF A DIESEL FUEL COMPOSITION
00: -
Use of a diesel fuel composition comprising (5) vol% or greater of biodiesel for reducing the build-up of deposits in an Exhaust Gas Recirculation (EGR) system of a compression ignition internal combustion engine.



21: 2023/03772. 22: 2023/03/23. 43: 2025/06/25
51: C10L
71: SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V.
72: BENNIS, Hanane Belmokaddem, SHEA, Timothy Michael
33: US 31: 63/104,144 32: 2020-10-22
33: EP 31: 20205000.1 32: 2020-10-30
54: HIGH OCTANE UNLEADED AVIATION GASOLINE
00: -
An unleaded aviation fuel composition having a MON of at least 99.6, sulfur content of less than 0.05wt%, CHN content of at least 98wt%, less than 2 wt% of oxygen content, an adjusted heat of combustion of at least 43.5 MJ/kg, a vapor pressure in the range of 38 to 49 kPa, comprising a blend comprising: from 5 vol.% to 25 vol.% of toluene having a MON of at least 107; from 0.5 vol.% to 4 vol.% of aniline;from 30 vol% to 70 vol% of at least one alkylate or alkyate blend having an initial boiling range of from 32°C to 60°C and a final boiling range of from 105°C to 140°C, having T40 of less than 99°C, T50 of less than 100°C, T90 of less than 110°C, the alkylate or alkylate blend comprising isoparaffins from 4 to 9 carbon atoms, 3-20vol% of C5 isoparaffins, 3-15vol% of C7 isoparaffins, and 60-90 vol% of C8 isoparaffins, based on the alkylate or alkylate blend, and less than 1 vol% of C10+, based on the alkylate or alkylate blend; from 0.1 vol.% to 10 vol.% of branched alkyl acetate; at least 8 vol% of isopentane, isobutane, or mixture thereof in an amount sufficient to reach a vapor pressure in the range of 38 to 49 kPa; from 2 vol.% to 10 vol.% of mesitylene; wherein the fuel composition contains less than 1 vol% of C8 aromatics. As well as meeting the requirements of the ASTM D910 specification, the unleaded aviation fuel compositions of the present invention exhibit reduced bladder delamination, improved materials compatibility such as reduced elastomer swelling and reduced paint staining, and improved engine endurance.



21: 2023/03775. 22: 2023/03/23. 43: 2025/05/08
51: C12N

71: STADA ARZNEIMITTEL AG, XBRANE BIOPHARMA AB
72: VIKSTRÖM, DAVID, ISMAIL, NURZIAN, SAMUELSON, PATRIK, MIRZADEH, KIAVASH, GUDISE, SANTHOSH, KADOW, MARIA, SZEKÉR, KATHLEEN, SALIH, TAGRID, BARASZKIEWICZ, MARIUSZ, BASHIRI, SIAVASH
33: EP 31: 20201096.3 32: 2020-10-09
54: METHOD OF PRODUCING A RECOMBINANT PROTEIN IN A HOST CELL WHICH HAS A DISABLED RHAMNOSE METABOLISM AS WELL AS EXPRESSION VECTORS, HOST CELLS AND RECOMBINANT PROTEINS THEREOF
00: -
The present invention relates to DNA construct suitable for expressing a recombinant protein in a bacterial host cell wherein said DNA construct comprises nucleotide sequences encoding: a rhaBAD promoter, a RhaR transcription activator, a RhaS transcription activator, an antibiotic resistance marker, a promoter operably linked to the nucleic acid encoding for the antibiotic resistance marker, an rmB T1 terminator, an rmB T2 terminator and a pMB1 origin of replication. The DNA construct may also comprise a nucleotide sequence encoding said recombinant protein operably linked to the rhaBAD promoter. The present invention further relates to a vector and bacterial host cell comprising said DNA construct as well as a method of producing said recombinant protein by exposing said bacterial host cell to rhamnose and thereby inducing expression of said recombinant protein.

21: 2023/03776. 22: 2023/03/23. 43: 2025/05/08
51: C08J; A61K
71: STANDARD MILLOX PHARMACEUTICALS OY
72: JOKINEN, MIKA, KALJUKIVI, ALAR, ROSLING, ARI, ASSMUTH, TATU, BLAZEVIC, VESNA, HYTÖNEN, VESA, LAITINEN, OLLI, HEINIMÄKI, SUVI
33: FI 31: 20205956 32: 2020-10-01
54: A HYDROGEL MATERIAL
00: -
The present invention relates to a hydrogel material hydrogel material, comprising a first hydrogel comprising 0.15-21 wt-% of a functionalised triblock molecule having a formula (1) wherein n is 4-680 and m is 1-10, based on a total weight of the first hydrogel. The first hydrogel further comprises 0.85-3.3 wt-% of silica, based on the total weight of the first hydrogel, and 75-99 wt-% of an aqueous liquid, based on the total weight of the first hydrogel. The -Si- OH groups of the silica form a -Si-O-Si- bond with the -Si-$(O)_3$- group of the functionalised triblock molecule of formula (1).

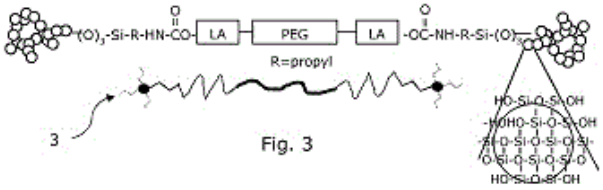


Fig. 3

21: 2023/03855. 22: 2023/03/27. 43: 2025/06/25
51: A61K; C07D; A61P
71: BEIGENE, LTD
72: XU, Sanjia, LI, Jing, WANG, Zhiwei
33: CN 31: PCT/CN2020/119171 32: 2020-09-30
33: CN 31: PCT/CN2020/135968 32: 2020-12-11
33: CN 31: PCT/CN2021/076993 32: 2021-02-20
33: CN 31: PCT/CN2021/113967 32: 2021-08-23
54: 3-[(1H-PYRAZOL-4-YL)OXY]PYRAZIN-2-AMINE COMPOUNDS AS HPK1 INHIBITOR AND USE THEREOF
00: -
Disclosed herein is 3- [(1H-pyrazol-4-yl) oxy] pyrazin-2-amine compounds of Formula (I), or a stereoisomer thereof, or a pharmaceutically acceptable salt thereof, and pharmaceutical compositions comprising thereof. Also disclosed is a method of modulating, e.g., inhibiting or treating HPK1 related disorders or diseases including cancer by using the compound disclosed herein

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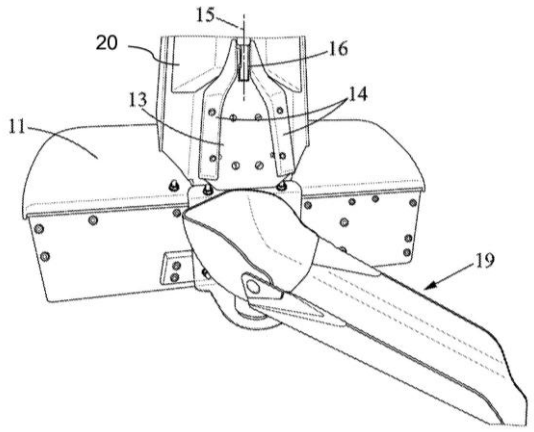
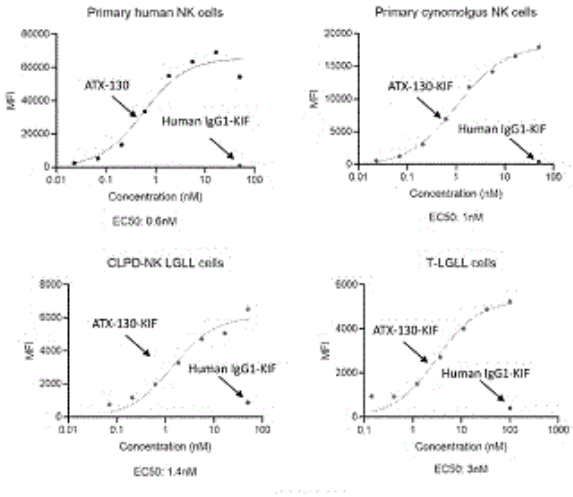
21: 2023/03957. 22: 2023/03/29. 43: 2025/05/08
51: A61D
71: Desvac
72: MAGNIAUX, Philippe
33: EP(FR) 31: 20306092.6 32: 2020-09-25
54: DEVICE FOR INJECTING FLUID INTO A BIRD
00: -
The present invention relates to a device for injecting fluid into a bird, the device having a main body (11), which comprises an injection assembly comprising an injection needle and at least one syringe, the needle being movable between a retracted position and an injecting position located in an injection zone positioned outside the main body (11). According to the invention, said device comprises: - a guide element (12) positioned on an exterior surface of the main body (11), the guide element (12) comprising a base (13) and side edges (14) extending from said

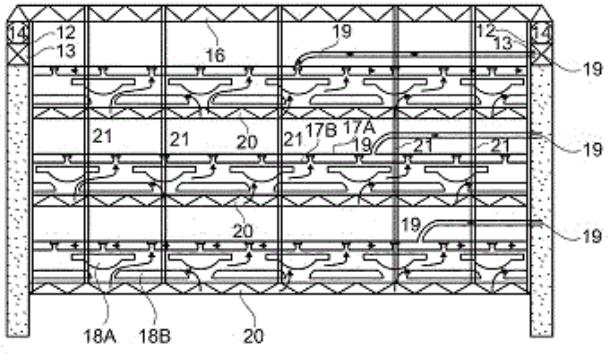
base, at least the upper part of the back of the bird to be vaccinated being intended to rest against said base (13) and to be moved, head first, along a guide axis (15) defined by the guide element (12), to the injecting position, - the guide element (12) being additionally configured to keep at least the neck of the bird aligned or substantially aligned along said guide axis (15) in the injection zone - the injection needle being arranged such that when it is moved between the retracted and injecting positions, it moves along an axis of movement parallel to the exterior surface of the base, or at an angle relative to said exterior surface, said axis of movement extending, away from the main body, beyond an exclusion zone surrounding the guide axis (15).



21: 2023/03966. 22: 2023/03/29. 43: 2025/05/08
51: A61K; C07K; A61P
71: DREN BIO, INC.
72: TOMASEVIC, NENAD, SHI, RUO SHI
33: US 31: 63/088,926 32: 2020-10-07
33: US 31: 63/085,932 32: 2020-09-30
54: ANTI-CD94 ANTIBODIES AND METHODS OF USE THEREOF
00: -
The present disclosure relates to antibodies that bind to human CD94, as well as methods, uses, polynucleotides, vectors, host cells, and pharmaceutical compositions related thereto. In some embodiments, the antibodies are human or humanized antibodies that bind to human CD94 and do not block binding between CD94 and HLA-E. In some embodiments, the antibodies cross-react with cynomolgus CD94. In some embodiments, the antibodies do not promote internalization of surface-expressed CD94 to the extent of existing antibodies. In some embodiments, the antibodies promote ADCC targeting cells that express human CD94, e.g., on the cell surface.



21: 2023/04020. 22: 2023/03/30. 43: 2025/05/09
51: F04B; F03B
71: AHMED, MOSTAK
72: AHMED, MOSTAK
33: GB 31: 2013680.0 32: 2020-09-01
54: VANDAR-IMPROVED HYDROELECTRIC POWER SYSTEMS
00: -
A hydro injector for delivery of the water from a deep water source under pressure to a turbine comprising a series of sections each one of which is linked by a pipe for delivery of water to a water vessel from which the water is provided under pressure to one or more turbines.



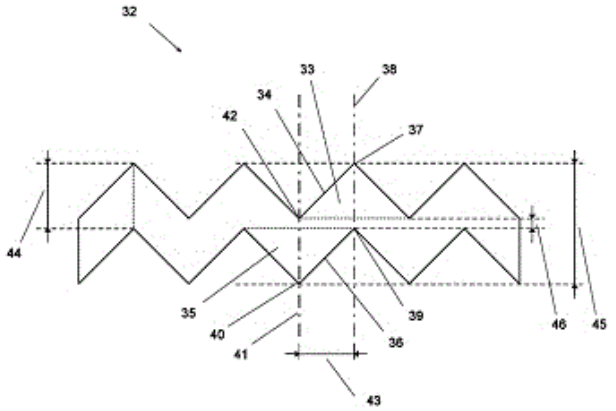
21: 2023/04057. 22: 2023/03/31. 43: 2025/05/09
51: B03C
71: RIBEIRO, CLÁUDIO HENRIQUE TEIXEIRA, RIBEIRO, JOSÉ PANCRÁCIO
72: RIBEIRO, CLÁUDIO HENRIQUE TEIXEIRA, RIBEIRO, JOSÉ PANCRÁCIO

33: US 31: 17/067,066 32: 2020-10-09

54: MAGNETIC MATRICES AND METHODS OF USING THE SAME

00: -

A magnetic matrix for magnetic separation of particles in a material feed includes a plurality of grooved plates having first and second sides that both have an alternating series of teeth and grooves therealong, each grooved plate having an offset alignment in which teeth and grooves on a first side of a plate are laterally offset from teeth and grooves on a second side of the same plate. Also provided are methods of using magnetic matrices to separate magnetic ores, with the methods characterized by a negative correlation in which magnetic matrices constructed with grooved plates having larger pitches are used for the separation of ultrafine particles.



21: 2023/04171. 22: 2023/04/05. 43: 2025/05/30

51: C22B

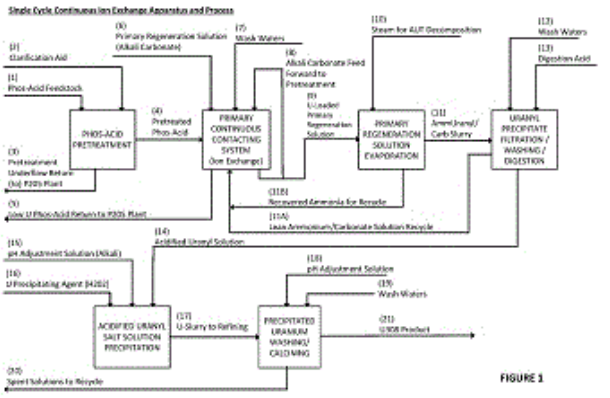
71: OCP S.A.

72: DHIBA, DRISS, EL MAHDI, MOUNIR, BERRY, WILLIAM W, BARODY, THOMAS E

54: PROCESSES FOR THE RECOVERY OF URANIUM

00: -

The present disclosure describes a method of recovering uranium including a continuous ion exchange (CIX) process including a single cycle or a dual cycle CIX process and at least a gradient elution or resin crowding process. The present disclosure also describes an apparatus including a single cycle or dual cycle CIX system and a gradient elution and/or resin crowding system.



21: 2023/04326. 22: 2023/04/12. 43: 2025/05/30

51: G10L

71: DOLBY INTERNATIONAL AB

72: KORDON, SVEN, KRUEGER, ALEXANDER

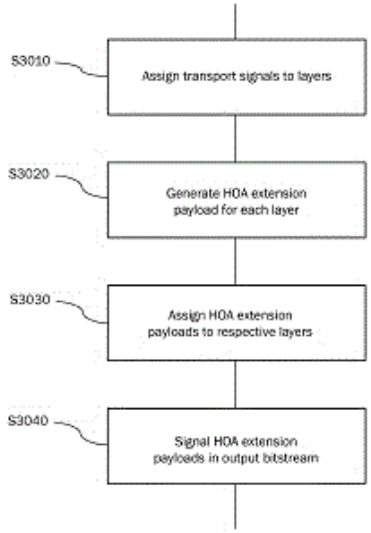
33: US 31: 62/361,863 32: 2016-07-13

33: EP 31: 15306591.7 32: 2015-10-08

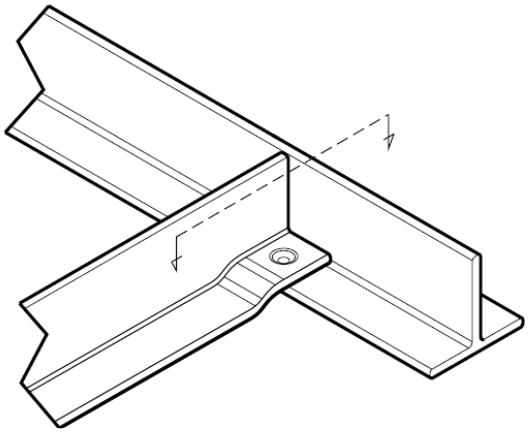
54: LAYERED CODING AND DATA STRUCTURE FOR COMPRESSED HIGHER-ORDER AMBISONICS SOUND OR SOUND FIELD REPRESENTATIONS

00: -

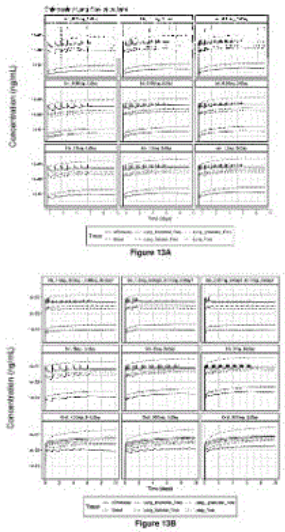
The present document relates to a method of layered encoding of a frame of a compressed higher-order Ambisonics, HOA, representation of a sound or sound field. The compressed HOA representation comprises a plurality of transport signals. The method comprises assigning the plurality of transport signals to a plurality of hierarchical layers, the plurality of layers including a base layer and one or more hierarchical enhancement layers, generating, for each layer, a respective HOA extension payload including side information for parametrically enhancing a reconstructed HOA representation obtainable from the transport signals assigned to the respective layer and any layers lower than the respective layer, assigning the generated HOA extension payloads to their respective layers, and signaling the generated HOA extension payloads in an output bitstream. The present document further relates to a method of decoding a frame of a compressed HOA representation of a sound or sound field, an encoder and a decoder for layered coding of a compressed HOA representation, and a data structure representing a frame of a compressed HOA representation of a sound or sound field.



21: 2023/04368. 22: 2023/04/13. 43: 2025/07/10
51: E06B
71: AVAX SA 407 CC
72: COETZEE, Quentin, KNOWLES, Travis
54: A METHOD OF MANUFACTURING A WINDOW FRAME
00: -
The invention provides a steel grid element for a window frame which includes a T-shaped body comprised of a base portion which lies in a plane and which has an upper surface and an under surface, and a divider portion which projects in a perpendicular direction from the upper surface of the base portion and which divides the upper surface, wherein the base portion has, at each end, a mating formation which is formed as a deviation of the base portion from the plane.



21: 2023/04380. 22: 2023/04/12. 43: 2025/07/08
51: A61K; A61P
71: PHILIP MORRIS PRODUCTS S.A.
72: CALVINO, Florian, Alexis, GUY, Philippe Alexandre, HOENG, Julia, KOLLI, Aditya, Reddy, KUCZAJ, Arkadiusz, MAJEED, Shoaib, MAZUROV, Anatoly, PEITSCH, Manuel, VAN DER TOORN, Marco, ZIVKOVIC SEMREN, Tanja
33: EP 31: 20196087.9 32: 2020-09-14
54: PHARMACEUTICAL COMPOSITION COMPRISING CHLOROQUINE AND USES THEREOF
00: -
The present invention relates to pharmaceutical compositions comprising chloroquine and uses thereof. More specifically, the invention relates to a pharmaceutical composition comprising chloroquine or pharmaceutically acceptable salts thereof for use in the treatment or prevention of a viral lung infection, preferably caused by Betacoronavirus, including but not limited to 2019-nCoV (coronavirus), SARS-CoV and Middle East respiratory syndrome CoV (MERS-CoV), wherein the pharmaceutical composition is administered by inhalation. The present invention provides an improved delivery into the lungs of a subject with minimum systemic exposure.

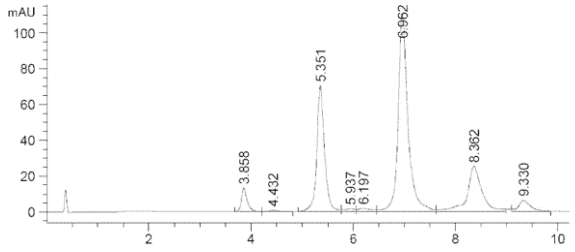


21: 2023/04381. 22: 2023/04/13. 43: 2025/07/17
51: A61K; C07K; A61P
71: SHANGHAI MIRACOGEN INC., KEYMED BIOSCIENCES CO., LTD
72: HU, Chaohong, LI, Hu, CHEN, Bo, XU, Gang, WANG, Ying
33: CN 31: 202011105383.0 32: 2020-10-15

54: ANTIBODY-DRUG CONJUGATE AND APPLICATION THEREOF

00: -

The present invention relates to an antibody-drug conjugate and an application thereof, and specifically provides the antibody-drug conjugate, a pharmaceutically acceptable salt and solvate thereof, or a solvate of the salt. The antibody-drug conjugate has the structure represented by formula I, wherein Ab is an anti-Claudin 18.2 antibody. The antibody-drug conjugate of the present invention has good tumor cell growth inhibition activity in vivo and in vitro, low cytotoxicity, and good application prospects.



21: 2023/07518. 22: 2023/07/28. 43: 2025/04/30
51: B01D
71: VIETTI SLURRYTEC (PTY) LTD.
72: VIETTI, Andrew Joseph
33: ZA 31: 2022/09637 32: 2022-08-30

54: SLURRY TREATMENT APPARATUS

00: -

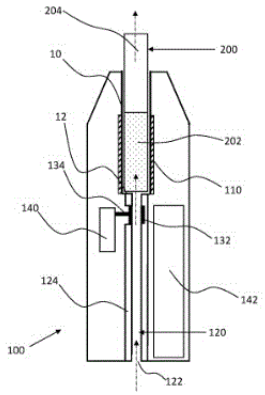
An apparatus for treating a flocculated slurry with an initial liquid content comprising a treatment arrangement defining a treatment zone in which the slurry is supported on a treatment surface of the treatment arrangement, a feed arrangement for feeding slurry into the apparatus, a discharge through which output product is discharged from the treatment zone, wherein the treatment surface is configured such that interaction between the treatment surface and the slurry causes at least a portion of liquid within the slurry to be separated therefrom, such that a liquid content of the output product is lower than the initial liquid content.

21: 2023/09214. 22: 2023/10/02. 43: 2025/06/19
51: A24F
71: PHILIP MORRIS PRODUCTS S.A.
72: BESSANT, Michel, STEFFEN, Fabrice, YIM, Jun, Wei, HOW, Jun Jie
33: EP 31: 21160540.7 32: 2021-03-03

54: AEROSOL GENERATING DEVICE WITH PUFF DETECTION

00: -

An aerosol-generating device for generating an aerosol from an aerosol-forming substrate. The aerosol-generating device may comprise a device housing defining a chamber for receiving the aerosol-forming substrate; an airflow channel extending from an air inlet in the device housing and through, or in fluid communication with, the chamber; and a puff sensor assembly comprising a heat transfer element and a temperature sensor in contact with the heat transfer element. A first portion of the airflow channel is at least partially defined by an airflow channel wall and a second portion of the airflow channel is at least partially defined by the heat transfer element, the second portion of the airflow channel being adjacent to the first portion and outside of the chamber. At least one of the thermal conductivity or thermal diffusivity of the heat transfer element is greater than the respective thermal conductivity or thermal diffusivity of the airflow channel wall.

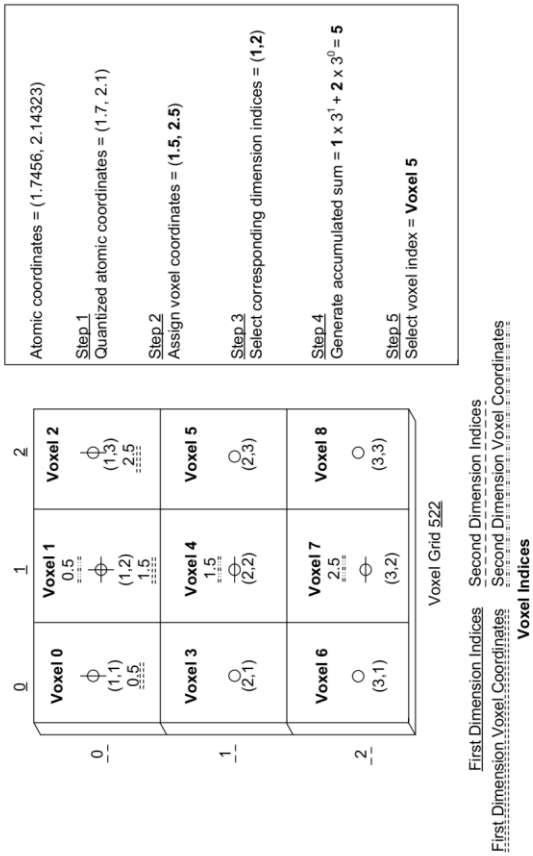


21: 2023/09343. 22: 2023/10/06. 43: 2025/07/01
51: G16B
71: ILLUMINA, INC., ILLUMINA CAMBRIDGE LIMITED
72: HAMP, Tobias, GAO, Hong, FARH, Kai-How
33: US 31: 63/175,495 32: 2021-04-15
33: US 31: 63/175,767 32: 2021-04-16
33: US 31: 17/703,935 32: 2022-03-24
33: US 31: 17/703,958 32: 2022-03-24

54: MULTI-CHANNEL PROTEIN VOXELIZATION TO PREDICT VARIANT PATHOGENICITY USING DEEP CONVOLUTIONAL NEURAL NETWORKS

00: -

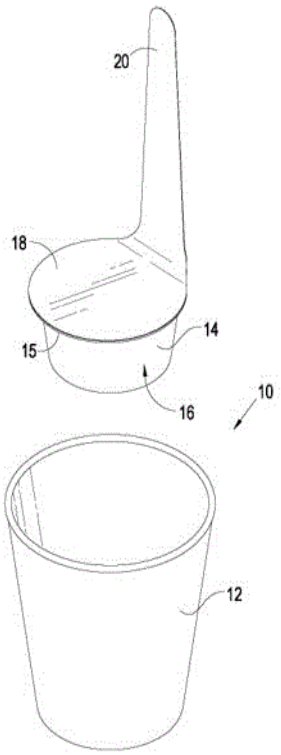
A system includes at least a voxelizer, an alternative allele encoder, an evolutionary conservation encoder, and a convolutional neural network. The voxelizer accesses a three-dimensional structure of a reference amino acid sequence of a protein and fits a three-dimensional grid of voxels on atoms in the three-dimensional structure on an amino acid-basis to generate amino acid-wise distance channels. The alternative allele encoder encodes an alternative allele sequence to each voxel in the three-dimensional grid of voxels. The evolutionary conservation encoder encodes an evolutionary conservation sequence to each voxel in the three-dimensional grid of voxels. The convolutional neural network applies three-dimensional convolutions to a tensor that includes the amino acid-wise distance channels encoded with the alternative allele sequence and respective evolutionary conservation sequences and determines a pathogenicity of a variant nucleotide based at least in part on the tensor.



21: 2023/09401. 22: 2023/10/09. 43: 2025/05/22

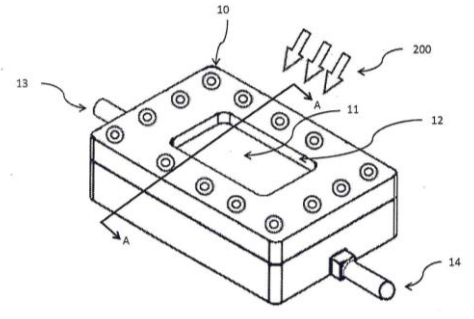
51: B65D
71: MINNAAR, Philip, WESTCOTT, Dale Howard
72: MINNAAR, Philip, WESTCOTT, Dale Howard
33: ZA 31: 2022/06136 32: 2022-10-03
54: CUP ARRANGEMENT
00: -

A cup arrangement is disclosed comprising a drinking cup; and a liquid-holding container within and proximate the bottom of the drinking cup. The liquid-holding container accommodates a predetermined amount of alcohol or beverage concentrate and is covered with a removable cover. The removable cover includes a pull tab, wherein the liquid-holding container is secured or at least snugly accommodated within the drinking cup, so that a user can hold and pull the pull tab so as to separate and remove the cover from the liquid-holding container. In an embodiment, the liquid-holding container is fixed to the interior bottom surface of the drinking cup with either a pressure vacuum or any type of adhesive. In an embodiment, the pull tab is an elongate strip, typically integral with and thus made from the same material as the removable cover, which extends out of the drinking cup to facilitate it being held and pulled by the user.

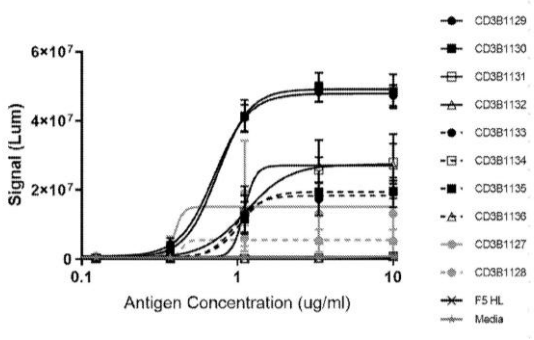


21: 2023/09768. 22: 2023/10/19. 43: 2025/07/14

51: B01J; C01B
71: THE UNIVERSITY OF ADELAIDE, FLINDERS UNIVERSITY
72: METHA, Gregory, ALVINO, Jason, ANDERSSON, Gunther, OSBORN, D.J.
33: AU 31: 2021900997 32: 2021-04-06
54: PHOTOCATALYTIC APPARATUS
00: -
This disclosure relates to an apparatus and a method for photocatalytically splitting H2O, that is either in liquid or gaseous form, to produce hydrogen and oxygen using a radiation source comprising a spectrum of both a high energy component (such as ultraviolet, or UV, comprising visible light) and a low energy component (such as infrared, or IR, also comprising visible light). That is to say, the apparatus and the method both utilise or involve the entire or full spectrum of the radiation source to split H2O. Both the apparatus and method utilise a radiation concentrator assembly that comprises at least one optical element arranged and constructed to direct radiation from the radiation source on to a photocatalyst via a window to photocatalytically split H2O. The produced hydrogen and oxygen may subsequently be stored and used as a fuel source.



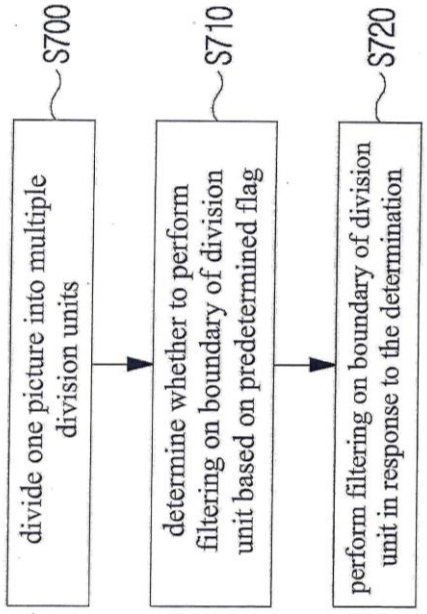
21: 2023/09861. 22: 2023/10/23. 43: 2025/05/07
51: C07K
71: Janssen Biotech, Inc.
72: ZWOLAK, Adam, BRITTINGHAM, Raymond, BRODEUR, Scott R., GANESAN, Rajkumar, LA PORTE, Sherry Lynn, LUO, Jinquan, YI, Fang, KANE, Colleen M., BHATT, Triveni K.
33: US 31: 63/165,184 32: 2021-03-24
54: PROTEINS COMPRISING CD3 ANTIGEN BINDING DOMAINS AND USES THEREOF
00: -
The disclosure provides antigen binding domains that bind cluster of differentiation 3 (CD3) protein, comprising the antigen binding domains that bind CD3e, polynucleotides encoding them, vectors, host cells, methods of making and using them.



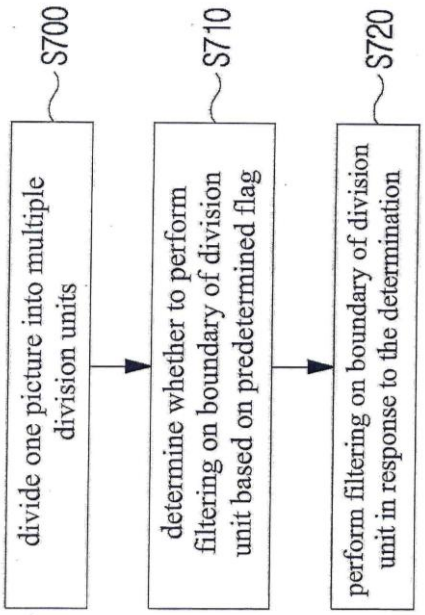
21: 2023/10630. 22: 2023/11/16. 43: 2025/06/25
51: G06Q
71: WILLIAM, THEMBA DESMOND
72: WILLIAMS, DESMOND THEMBA
33: ZA 31: 2022/09137 32: 2022-08-16
54: A SECURE ENERGY TRANSACTION SYSTEM
00: -
A secure transaction system for a nano-grid energy management network, with a digital currency platform communicatively linked to a nano-grid communication network, configured to generate digital tokens, at smart meter in communication with the platform, configured to measure and manage a producer's electric power as digital tokens, an energy reservoir in communication with the smart meter and platform, configured to store and transfer electrical power via transaction requests between producers; a decentralized digital ledger in communication with the smart meter, the reservoir, and the platform, configured to verify, authenticate, and record transaction requests; and a process controller in communication with the smart meter, energy reservoir, digital currency platform, wherein the transaction request is processed, and electrical power is transferred or received from the reservoir, with a concomitant recordal of the transaction request via the secure digital ledger

21: 2023/10884. 22: 2023/11/24. 43: 2025/07/14
51: H04N
71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC.
72: KIM, Ki Baek
33: WO 31: PCT/KR2020/012252 32: 2020-09-10
33: KR 31: 10-2019-0115073 32: 2019-09-18
54: IN-LOOP FILTER-BASED IMAGE ENCODING/DECODING METHOD AND APPARATUS

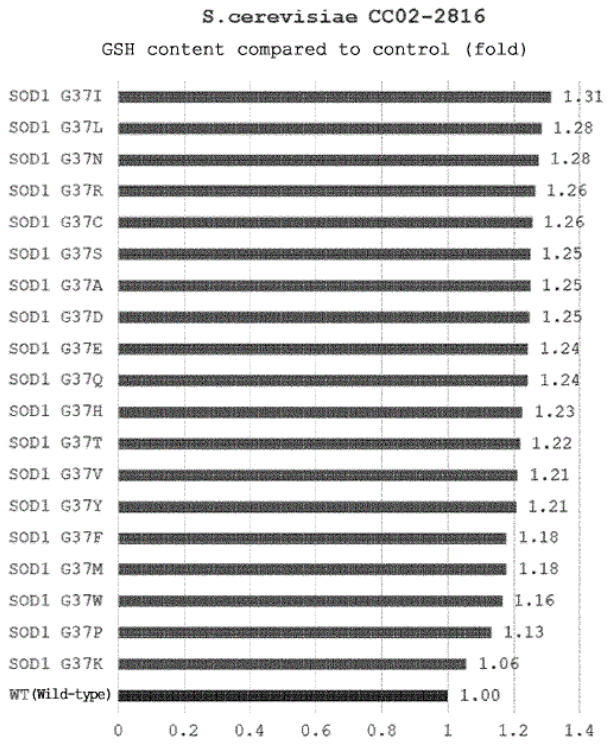
00: -
An image encoding/decoding method and apparatus of the present invention may divide one picture into a plurality of division units, determine whether or not to perform filtering on a boundary of a current division unit, and perform filtering on the boundary of the current division unit in response to the determination.



21: 2023/10886. 22: 2023/11/24. 43: 2025/07/14
51: H04N
71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC.
72: KIM, Ki Baek
33: KR 31: 10-2019-0115073 32: 2019-09-18
54: IN-LOOP FILTER-BASED IMAGE ENCODING/DECODING METHOD AND APPARATUS
00: -
An image encoding/decoding method and apparatus of the present invention may divide one picture into a plurality of division units, determine whether or not to perform filtering on a boundary of a current division unit, and perform filtering on the boundary of the current division unit in response to the determination.



21: 2023/11242. 22: 2023/12/06. 43: 2025/05/26
51: C12N C12P
71: CJ CHEILJEDANG CORPORATION
72: IM, Yeong Eun, HA, Cheol Woong, YANG, Eun Bin, KIM, Yeonsoo
33: KR 31: 10-2021-0075689 32: 2021-06-10
54: SUPEROXIDE DISMUTASE 1 VARIANT AND METHOD FOR PRODUCING GLUTATHIONE OR DERIVATIVE THEREOF, USING SAME
00: -
The present application relates to a novel superoxide dismutase 1 variant and a method for producing glutathione or a derivative thereof, using same.



21: 2023/11378. 22: 2023/12/11. 43: 2025/06/09
51: H01R
71: PANASONIC LIFE SOLUTIONS INDIA PRIVATE LIMITED
72: AGLAWE, Abhijit, KUMAR, Pankaj, GAIKWAD, Akshay
33: IN 31: 202121024768 32: 2021-06-03
54: AN ELECTRICAL SOCKET ASSEMBLY WITH AN IMPROVED CONTACT ELEMENT
00: -
An electrical socket assembly with an improved contact element is disclosed. The electrical socket assembly includes a housing member having at least one slot adapted to receive an electrical pin of an electrical plug. Further, the electrical socket assembly includes at least one contact element disposed in a recess adjacent to the at least one slot of the housing member. The at least one contact element includes an engaging portion and a receiving portion distal to the engaging portion. The at least one contact element is adapted to receive the electrical pin in a vertical direction along a length of the at least one slot. The receiving portion comprises a plurality of bending members adapted to be in contact with the electrical pin. Each of the plurality of bending members is adapted to resiliently move in a radial direction when the electrical pin is inserted in the at least one slot through the receiving portion.

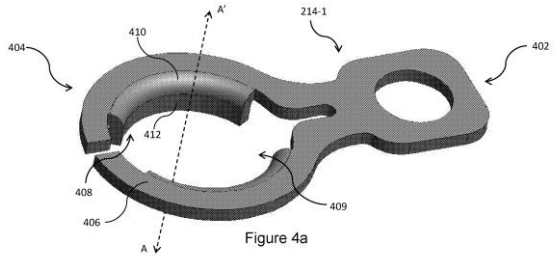
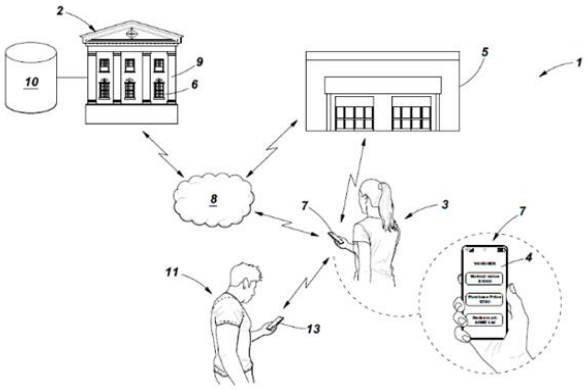


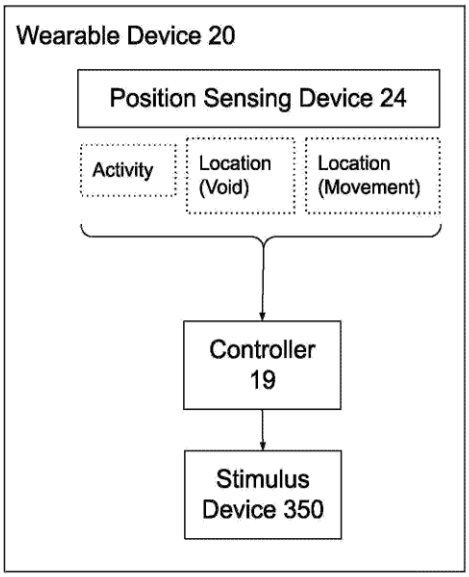
Figure 4a

21: 2023/11688. 22: 2023/12/20. 43: 2025/05/26
51: C07K C12N C12P
71: CJ CHEILJEDANG CORPORATION
72: SIM, Hee-jin, PARK, Hye Min, CHOI, Jin-Geun, LEE, Jin Nam, JUNG, Hwi-Min
33: KR 31: 10-2021-0075859 32: 2021-06-11
54: NOVEL MDTH VARIANT AND METHOD FOR PRODUCING O-PHOSPHOSERINE, CYSTEINE, AND DERIVATE OF CYSTEINE USING SAME
00: -
The present application relates to a novel MdtH variant and a method for producing O-phosphoserine, cysteine, and a derivative of cysteine using same.

21: 2023/11763. 22: 2023/12/21. 43: 2025/06/12
51: G06Q
71: VENTER, Johannes Petrus
72: VENTER, Johannes Petrus
33: ZA 31: 2021/05445 32: 2022-01-30
54: TRANSACTION SYSTEM AND METHOD
00: -
This invention relates to a transaction system and method for selling products and/or services at a discount and for receiving a reward for sales activities. The system comprising a provider in communication with a first user for selling a product and/or service to the first user at a discounted price, a proof of purchase for the first user, the provider in communication with an administration portal for receiving a reward for making the sale of the product and/or service to the first user, the first user in communication with a second user for selling a product and/or service to the second user at a discounted price, a proof of purchase for the second user, the provider and first user in communication with the administration portal for receiving a reward for the first user making the sale of the product and/or service to the second user.

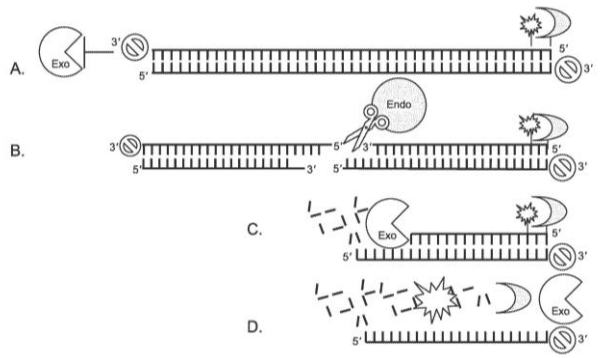


21: 2024/00392. 22: 2024/01/11. 43: 2025/06/09
51: A01K; G08B
71: HALTER USA INC.
72: PIGGOTT, Craig, HEARN, Daniel, CROWHURST, Steve
33: AU 31: 2021104227 32: 2021-07-16
54: APPARATUS FOR LOCATIONAL CONTROL OF ANIMAL VOIDING AND METHOD THEREFOR
00: -
A wearable device for moving animals in a pastoral environment from their current location to a more desirable location to defecate or urinate (void), or cueing or training an animal to void when in a desirable location. The device administers a stimulus to a bovine animal to move it away from less desirable locations such as waterways, to more desirable locations, such as areas of carbon-rich soil, areas where previous animals have not voided recently, and excreta catchment areas.



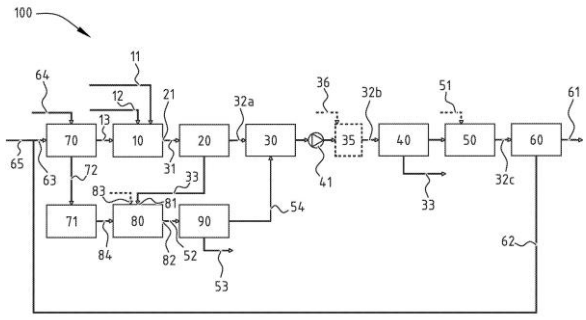
21: 2024/00794. 22: 2024/01/23. 43: 2025/07/17
51: B32B
71: DENSO-HOLDING GMBH & CO.
72: KAISER, Thomas Markus
33: DE 31: 10 2021 120 191.8 32: 2021-08-03
54: ANTI-CORROSION TAPE COMPRISING AT LEAST FOUR PLIES
00: -
The invention provides an anti-corrosion tape comprising at least four plies, wherein at least two plies of the anti-corrosion tape comprise as carrier plies an at least single-layered carrier, wherein at least one layer of the carrier is designed as a carrier layer, wherein at least one further ply of the anti-corrosion tape is designed as a connecting ply and comprises at least one connecting layer, wherein the connecting layer comprises a material selected from a group comprising at least one butyl rubber and/or at least one polyisobutylene, wherein the at least one connecting ply is arranged between the two carrier plies, and wherein at least one further ply of the anti-corrosion tape is configured as an anti-corrosion ply and is arranged on at least one exposed surface of at least one carrier ply.

21: 2024/00865. 22: 2024/01/25. 43: 2025/04/30
51: C12Q; G01N
71: Caribou Biosciences, Inc.
72: SMITH, Stephen
33: US 31: 63/272,091 32: 2021-10-26
54: EXONUCLEASE-COUPLED REAL-TIME ENDONUCLEASE ACTIVITY ASSAY
00: -
The invention comprises a rapid *in vitro* method of assessing activity of an endonuclease, and a substrate therefor. Compositions, diagnostic methods, and kits are also disclosed.

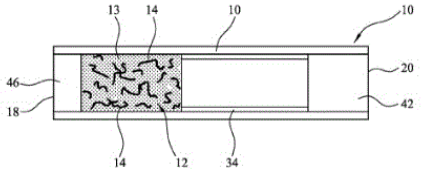


21: 2024/00919. 22: 2024/01/26. 43: 2025/04/30
51: C08J
71: Ioniqa Solutions B.V.
72: FUFACHEV, Egor Vasilyevich, WOLTERS, Joost Robert, DE GROOT, Michael Josef

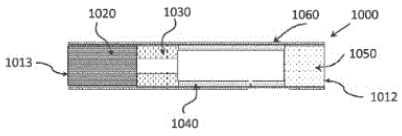
33: NL 31: 2028883 32: 2021-07-29
54: METHOD AND REACTOR SYSTEM FOR DEPOLYMERIZING A POLYMER USING A REUSABLE CATALYST
00: -
A method and reactor system for depolymerizing a polymer is described. The method comprises the steps of providing the polymer and a solvent in a reactor to obtain a reaction mixture, the solvent being capable of reacting with the polymer to degrade the polymer into at least repeating units; providing a reusable catalyst in the reaction mixture being capable of catalyzing said degradation; degrading the polymer in the reaction mixture at degradation reaction conditions to obtain a depolymerized mixture comprising at least light oligomers having from 2 to 4 repeating units inclusively; removing unreacted polymer, solid particles and optionally very heavy oligomers from the depolymerized mixture after exiting the reactor; recovering at least a part of the reusable catalyst from the depolymerized mixture; and recovering the light oligomers from the depolymerized mixture. During recovery of the reusable catalyst, the depolymerized mixture comprises heavy oligomers having at least 5 repeating units.



21: 2024/01134. 22: 2024/02/05. 43: 2025/06/19
51: A24B; A24D
71: PHILIP MORRIS PRODUCTS S.A.
72: WAIRIMU, Esther, HUANG, Houxue
33: EP 31: 21184365.1 32: 2021-07-07
33: EP 31: 22178772.4 32: 2022-06-13
54: THERMALLY-ENHANCED AEROSOL FORMING SUBSTRATE
00: -
An aerosol-forming substrate comprises a first material and a second material, the first material being comprised in the aerosol-forming substrate as a first plurality of discrete elements and the second material being comprised in the aerosol-forming substrate as a second plurality of discrete elements. The first material comprises an aerosol-former and has a first thermal conductivity, and the second material has a second thermal conductivity that is greater than the first thermal conductivity. The presence of the discrete elements of the second material in eth aerosol-forming substrate produces a substrate with augmented thermal conductivity resulting in improvements in aerosol generation and delivery.



21: 2024/01359. 22: 2024/02/14. 43: 2025/06/19
51: A24B; A24D
71: PHILIP MORRIS PRODUCTS S.A.
72: ARNDT, Daniel, CAMPANONI, Prisca
33: EP 31: 21186086.1 32: 2021-07-16
54: NOVEL AEROSOL-GENERATING SUBSTRATE COMPRISING OREGANUM SPECIES
00: -
An aerosol-generating article (1000)(4000a,4000b)(5000) comprises an aerosol-generating substrate (1020), the aerosol-generating substrate formed of a homogenised oregano material comprising oregano particles, an aerosol former and a binder. The aerosol- generating substrate further comprises at least 50 micrograms of ursolic acid per gram of the substrate, on a dry weight basis; at least 5 micrograms of isothymol per gram of the substrate, on a dry weight basis; and at least 1.5 micrograms of thymohydroquinone per gram of the substrate, on a dry weight basis.



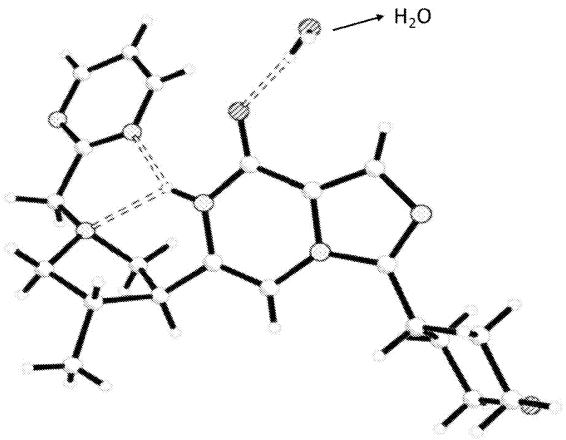
21: 2024/01459. 22: 2024/02/19. 43: 2025/06/09
51: A61K; C07D; A61P
71: CARDURION PHARMACEUTICALS, INC.
72: BUTTAR, Suzanne, PITAK, Mateusz, PATTERSON, Adam Ross, STRATFORD, Samuel

Alexander, SOVAGO, Ioana, XU, Jun, ZHOU, Peng, WEI, Haojuan, DAI, Kuangchu
33: US 31: 62/676,381 32: 2018-05-25
33: US 31: 62/788,323 32: 2019-01-04

54: MONOHYDRATE AND CRYSTALLINE FORMS OF 6-[(3S,4S)-4-METHYL-1- (PYRIMIDIN-2-YLMETHYL)PYRROLIDIN-3-YL]-3-TETRAHYDROPYRAN-4-YL- 7H-IMID AZO [1,5- A] PYRAZIN-8-ONE

00: -

The present disclosure relates to monohydrate crystalline forms of 6-[(3S,4S)-4-methyl-1-(pyrimidin-2-ylmethyl)pyrrolidin-3-yl]-3-tetrahydropyran-4-yl-7H-imidazo[1,5-a]pyrazin-8-one.



21: 2024/01581. 22: 2024/02/22. 43: 2025/06/13
51: B64C; G05D; G08G
71: GENERAL ATOMICS
72: BEARD, Gary C., AVEN, Kyle, ANDERSON, Rusty, HELMS, Keith, XERRI, Jason, ODOM, Luther E. Jr.
33: US 31: 17/469,024 32: 2021-09-08

54: AUTONOMOUS FLIGHT SAFETY SYSTEM

00: -

The present disclosure describes autonomous flight safety systems (AFSSs) that incorporate an autonomous flight termination unit (AFTU) enabling AFSS monitoring for various termination conditions that are used to activate a flight termination system (e.g., in the event a termination condition is detected). Such termination conditions include boundary limit detection (e.g., whether a vehicle position is outside or projected outside a planned flight envelope), as well as body instability detection (e.g., whether a pitch rate and yaw rate exceed some threshold indicative of vehicle instability). For instance, an AFTU may incorporate a three-axis gyroscope sensor and may implement instability detection processing based on information obtained via the sensor. Instability detection processing may include, for example, a BID algorithm that may be implemented by an AFTU to monitor angular rates of the vehicle, to determine if the vehicle is no longer under stable control, and to issue termination commands when termination conditions are detected.

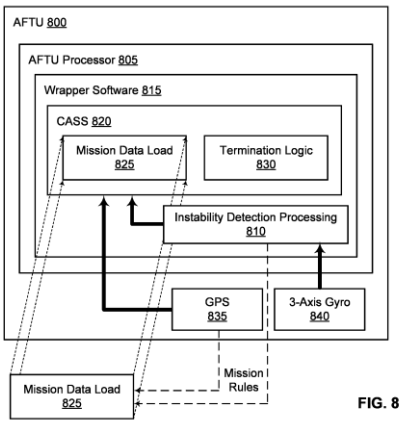


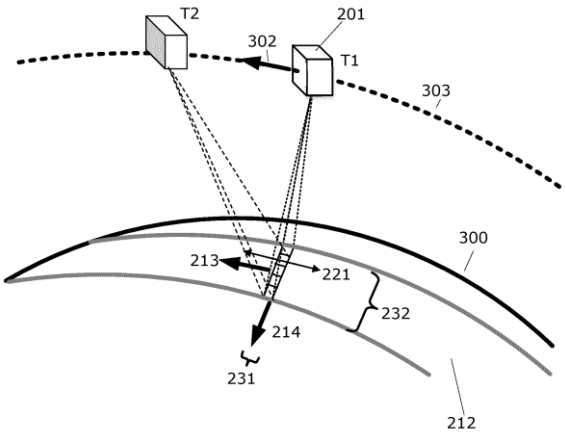
FIG. 8

21: 2024/01765. 22: 2024/02/29. 43: 2025/05/30
51: B64G; G02B; G03B
71: EUROPEAN SPACE AGENCY, OHB SYSTEM AG
72: MARESI, Luca, DEIML, Michael, ERHARD, Markus

54: AN IMAGING SYSTEM WITH A SCANNING MIRROR

00: -

The invention relates to an imaging system for imaging a surface on an astronomical body, such as the Earth. The imaging system such as a satellite imaging system comprises a telescope comprising at least first and second curved mirrors wherein the second mirror is located downstream of the first mirror, relative to a propagation direction of imaged light, a digital image sensor or a slit aperture arranged at the focal plane of the telescope, and an actuator system arranged for tilting the second mirror or other curved mirror located down-stream of the first curved mirror for scanning the line of sight of the imaging system in a scanning direction (221) on the surface within a field of view (231) of the imaging system.



21: 2024/01766. 22: 2024/02/29. 43: 2025/05/30
51: E04F
71: EVA-LAST HONG KONG LIMITED
72: CHAPMAN, Wesley Raymond, CHAPMAN, Gareth Wade Gadsby, COLLENDER, Caitlynne Gail, MINNE, Marc Peter
33: ZA 31: 2021/00799 32: 2021-08-01
33: IB 31: PCT/IB2022/057064 32: 2022-07-29
54: CLIP AND CLIP INSTALLATION APPARATUS
00: -
This invention relates to clip (1) and clip installation apparatus and more particularly, but not exclusively, to a decking board clip for securing decking boards to a support structure and apparatuses for installing decking board clips. The clip comprising a body having an inner part (3) made of a first material and an outer part (4) made of a second material, the body having a first retaining formation and a second retaining formation (8), the first retaining formation being resiliently moveable between an engaged position in which it engages in a groove of a decking board to provide a bias onto part of the groove and a disengaged position wherein it is not engaged inside the groove of the decking board and extends freely from the body, the body also having a receiving formation (5) for receiving a fastener to fasten the clip to a support

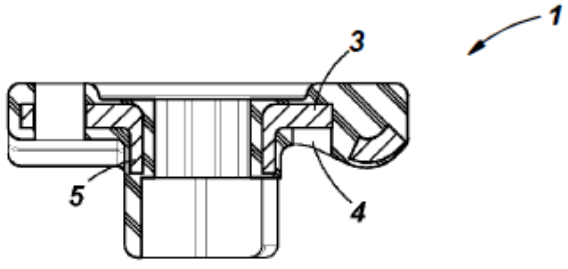


FIGURE 8a

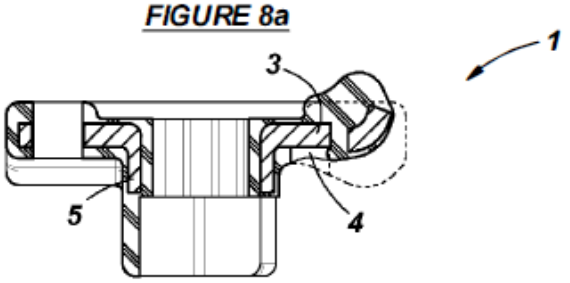
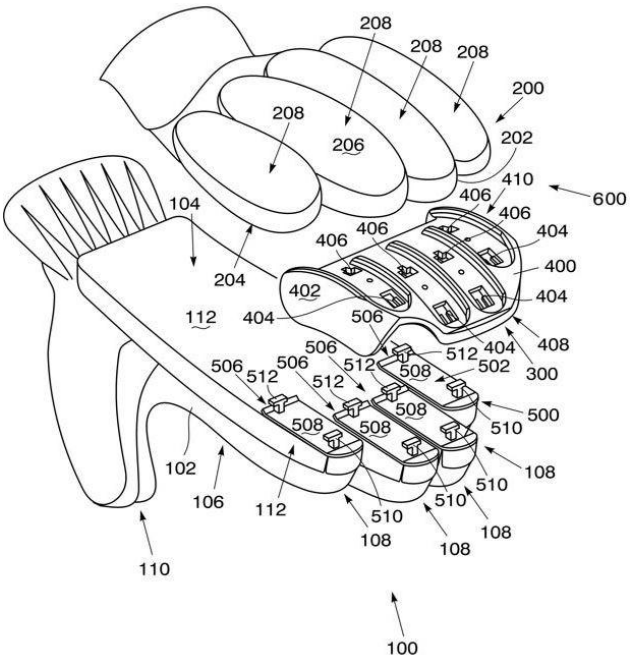


FIGURE 8b

21: 2024/01844. 22: 2024/03/04. 43: 2025/06/13
51: A41D; A63B
71: GLOVE IP (PTY) LTD
72: QUINLAN, Stephen John
33: ZA 31: 2021/05661 32: 2021-08-05
54: GLOVE, RIGID GUARD STRUCTURE FOR A GLOVE AND A METHOD OF MANUFACTURING A GLOVE
00: -
A protective glove is provided which comprises a glove body, outer padding configured to be attached to the glove opposite a dorsal side thereof and a guard structure shaped to be operatively interposed between the outer padding and the dorsal side of the glove body and to cover at least a portion of the dorsal side. The guard structure, glove body and outer padding are configured to be secured together in a sandwiched configuration so that the glove body and/or outer padding can be attached to the guard structure with first and/or second securing systems incorporating a plurality of socket and fastening lug formations.



21: 2024/01891. 22: 2024/03/06. 43: 2025/05/26
51: A61M
71: SHAW, Thomas J.
72: SHAW, Thomas J.
33: US 31: 17/403,385 32: 2021-08-16
54: SYRINGE WITH MULTIFUNCTIONAL PLUNGER HANDLE
00: -
A medical syringe useful for administering an injection or withdrawing a bodily fluid, the syringe comprising a barrel, plunger assembly and a needle assembly having a selectively retractable needle, the plunger assembly further comprising a plunger handle with a plunger seal and a front tip extending forwardly of the plunger seal to extend through the barrel and into the an annular fluid seal disposed in a recess between the barrel and a forwardly projecting needle, thereby reducing dead space inside the syringe and helping anchor the annular fluid seal inside the recess.

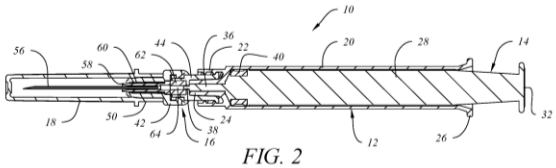


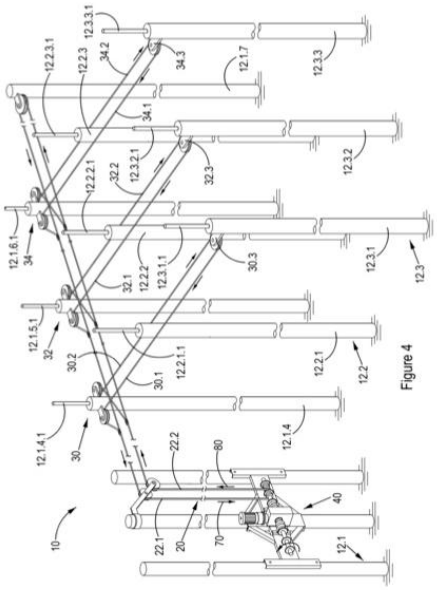
FIG. 2

21: 2024/02071. 22: 2024/03/13. 43: 2025/05/26
51: C07K C12N C12P
71: CJ CHEILJEDANG CORPORATION
72: KIM, Hyo Kyung, LEE, Zeewon, CHOI, Sun Hyoung
33: KR 31: 10-2021-0143660 32: 2021-10-26
54: LYSE VARIANT AND METHOD FOR PRODUCING L-ARGININE BY USING SAME
00: -
The present application provides a LysE variant.

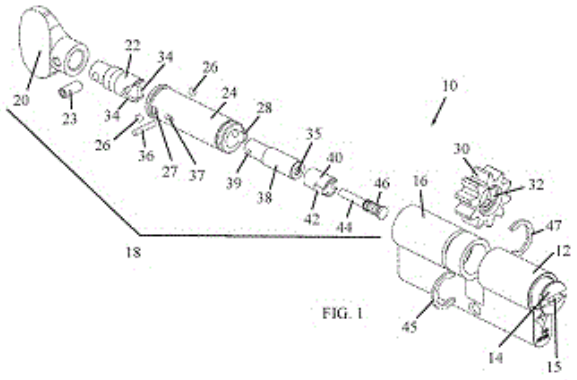
21: 2024/02080. 22: 2024/03/13. 43: 2025/06/19
51: C07G
71: FUNDACIÓN CENER
72: FUNCIA MUGUERZA, Ibai, CLEMENTE CORNAGO, Alberto, FERNÁNDEZ OCHOA, Jon
33: EP 31: 21382822.1 32: 2021-09-13
54: METHOD FOR OBTAINING AN ANTIOXIDANT COMPOSITION FROM LIGNIN, LIGNIN LIQUOR OR BLACK LIQUOR
00: -
The invention relates to a method for producing an antioxidant composition from lignin, lignin liquor or black liquor which comprises contacting the lignin, lignin liquor or black liquor with an oxidizing agent, wherein said contacting is carried out in alkaline conditions and at a temperature above 160 degrees C, wherein when the oxidizing agent is oxygen, a gas mixture comprising oxygen or an oxygen-generating compound or composition, then the agent is added so that the oxygen partial pressure is below 0.3 MPa. The invention also relates to the antioxidant composition obtained by the method of the invention and to the uses thereof.

21: 2024/02152. 22: 2024/03/18. 43: 2025/06/19
51: A01G
71: SPAMER, Hendrik Jacobus Venter
72: SPAMER, Hendrik Jacobus Venter
33: ZA 31: 2021/04268 32: 2021-06-22
33: ZA 31: 2022/00469 32: 2022-01-11
54: COVERAGE SYSTEM
00: -
The invention provides a coverage system which includes upright supports for supporting any of one of sheets and foldable panels at an elevated level, the support including support lines running along at least two parallel rows of support poles, a first closed looped spool system, running along a first row of support poles, which defines an incoming and outgoing control line and a drive assembly operable to actuate the first closed looped spool system in opposite directions. Furthermore, at least one second closed looped spool system, supported by a

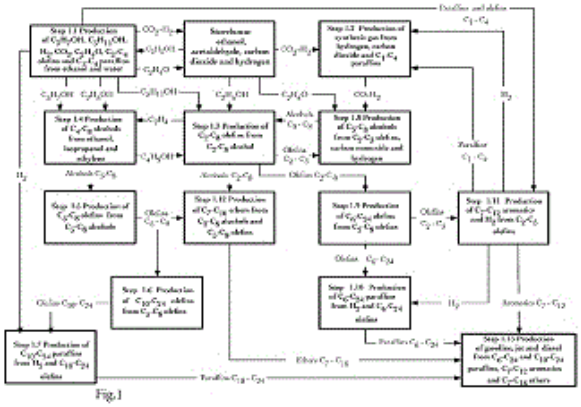
support pole in a second row of support poles, which defines an opening and closing steering line, transversely extending from the incoming and outgoing control lines. The sheets and panels are attached to both the support lines and the steering lines, thereby allowing the sheets and panels to be deployed or stowed in unison with the movement of the steering lines.



21: 2024/02191. 22: 2024/03/18. 43: 2025/05/08
51: E05B
71: MUL-T-LOCK TECHNOLOGIES LTD.
72: BEN-AHARON, EFFI, MORSKY, EYAL
33: IL 31: 287340 32: 2021-10-17
54: KNOB AND KEY-ACTUATED DOUBLE CYLINDER LOCK
00: -
Mul-T-Lock Technologies Ltd., an ASSA ABLOY company, has developed a double cylinder lock (10) that includes a key-operated cylinder housing (12), a knob cylinder housing (16) that has a knob mechanism (18), and a rotatable cam (30). A blocking element (40) is initially in a blocking position with respect to the cam (30) that prevents rotation of the cam (30). The knob mechanism (18) includes a knob (20) coupled to a rotation transfer member (22), which is coupled to a cam-thrower element (24) arranged to turn the cam (30). The rotation transfer member (22) is coupled to the blocking element (40). Rotation of the knob (20) causes movement of the rotation transfer member (22), which causes the blocking element (40) to move out of the blocking position and enables rotation of the cam (30) by rotation of the knob (20).

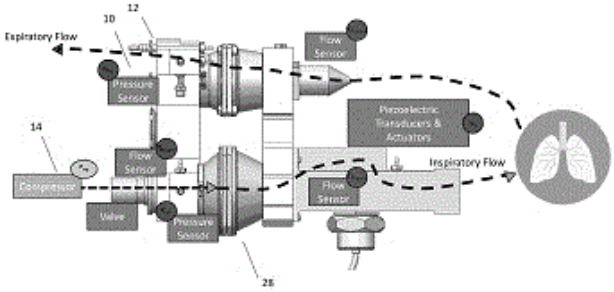


21: 2024/02194. 22: 2024/03/18. 43: 2025/05/08
51: C10G; B01J; C07C; C10L
71: SWEDISH BIOFUELS AB
72: GOLOUBKOV, IGOR
33: SE 31: 2151091-2 32: 2021-08-31
33: EP 31: 21194166.1 32: 2021-08-31
54: METHOD FOR PRODUCING MOTOR FUEL FROM ETHANOL
00: -
A method is for producing motor fuel, and more particularly gasoline, kerosene, and diesel, from ethanol is disclosed. The ethanol is suitably obtained from a feedstock of mainly plant origin. In addition, intermediate products and by-products from the inventive motor fuel synthesis, e.g. alcohols, aldehydes, ketones, ethers, olefins,paraffins, and aromatic compounds can be obtained using the method.



21: 2024/02241. 22: 2024/03/19. 43: 2025/05/08
51: A61M; A62B

71: REDFORD, RYAN
72: REDFORD, RYAN
33: US 31: 63/240,298 32: 2021-09-02
54: VENTILATION SYSTEM WITH IMPROVED VALVING
00: -
A respiratory ventilators system having an inlet configured to be connected to a pressurized air or gas source; an outlet configured to be connected to a patient interface; a valve in-line between the inlet and the outlet; and a control unit configured to control the valve for controlling flow of pressurized air or gas from the source to the patient, wherein the valve includes an air or gas reservoir or accumulator incorporated into the valve body.



21: 2024/02242. 22: 2024/03/19. 43: 2025/05/08
51: A61K; C11D; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: BEKTO, HASIBA, DOUTHIT, JENNA CHRISTINE, KEMLER, KAYLA MARIE
33: EP 31: 21202863.3 32: 2021-10-15
54: EFFERVESCENT CLEANSING POWDER COMPOSITION
00: -
The present invention is directed to an effervescent cleansing powder composition that comprises an effervescent system, a solid surfactant system, and a stabilizing system comprising apolysaccharide builder and a salt of carboxylic acid, and optionally a viscosity builder. The cleansing powder composition is mild during use, generates consumer-desirable lathering characteristics, and remains free-flowing under high humidity and/or temperature conditions.

21: 2024/02244. 22: 2024/03/19. 43: 2025/05/08
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: BURNHAM, NEIL STEPHEN, GRAINGER, DAVID STEPHEN, THORLEY, DAVID CHRISTOPHER
33: EP 31: 21203927.5 32: 2021-10-21
33: EP 31: 21203931.7 32: 2021-10-21
33: EP 31: 21203922.6 32: 2021-10-21
54: DETERGENT COMPOSITIONS
00: -
The invention relates to a liquid detergent composition comprising: (a) from 2 to 25 wt.% of a C12-C14 alkyl ethoxylated sulfate surfactant; wherein the alkyl ethoxylated sulfate surfactant comprises a C14 alkyl group at a level of at least 50 wt.% of the alkyl ethoxylated sulfate surfactant; wherein the average degree of ethoxylation (EO) is from 2.5 to 3.5; wherein with reference to the wt.% of the total ethoxylated portion of said alkyl ethoxylated sulfate surfactant, the level of 1EO is from 10 to 25 wt.%, the level of 2EO is from 15 to 24 wt.%, the level of 3EO is from 20 to 35 wt.%, and the level of 4EO is from 12 to 25 wt.%; and, wherein the C12-C14 alkyl ethoxylated sulfate surfactant includes at most 10 wt.% alkyl chains of C15 and higher; and, (b) from 0.5 to 15 wt.% of cleaning boosters selected from antiredeposition polymers, soil release polymers, alkoxylated polycarboxylic acid esters and mixtures thereof; the invention also relates to the use and method to increase viscosity by inclusion of said specified alkyl ethoxylated sulfate surfactant into a composition comprising one or more of said cleaning boosters.

21: 2024/02291. 22: 2024/03/20. 43: 2025/05/08
51: B65B; B65D
71: MONDI AG
72: RÜGER, PETER
33: DE 31: 10 2021 121 836.5 32: 2021-08-24
54: METHOD FOR PACKAGING AN OBJECT IN A PAPER BAG, AND PAPER BAG
00: -
The invention relates to a method for packaging an object in a paper bag which has a first, open end and a second, closed end opposite the first end, the first end and the second end being mutually spaced by a length L of the paper bag. The method comprises the following steps: arranging the paper bag on a filler neck of a filler device; inserting the object into the open end of the paper bag until the object is in contact with the closed end; inserting the object further into the paper bag so that the second, closed end moves away from the first, open end and the length L of the paper bag increases.

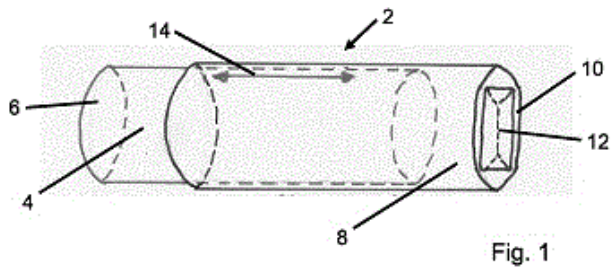
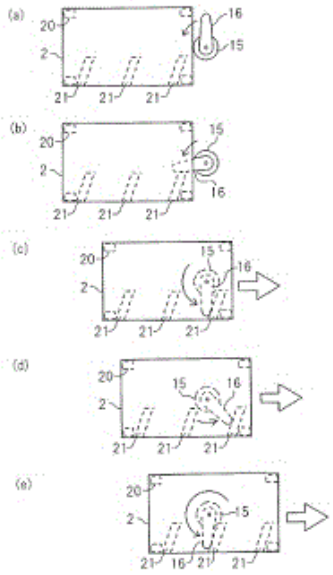


Fig. 1

21: 2024/02294. 22: 2024/03/20. 43: 2025/05/08
51: C10B
71: ITO, RYOKO
72: ITO, TOMOAKI
33: JP 31: 2021-150129 32: 2021-09-15
54: CARBONIZATION OIL-CONVERSION PROCESSING APPARATUS
00: -
[Problem] To make occurrences of malfunction and damage unlikely and to realize transfer by which a continuous process is conducted safely, by forming a transfer means that is free of problems regarding heating resistance against heating by a burner and overheated water vapor in a processing furnace. [Solution] According to the present invention, a driving motor 15 is installed below a transport passage 3 at a portion serving as an inlet or an outlet of end shutters 6a, 6b and partition shutters 7a, 7b-12a, 12b. A tongue piece-like feeding member 16 is provided to a rotational shaft protruding from the transport passage 3 surface side of the driving motor 15. A plurality of abutment engagement-separation members 21 are disposed at a constant interval on the reverse side of the bottom surface of a housing container 2, so as to abut the tongue piece-like feeding member 16 when the tongue piece-like feeding member is rotated by the driving motor 15, and to engage with and separate away from same in association with the rotation to cause a transport force in an advancing direction to be transferred to the housing container 2. Every time the tongue piece-like feeding member 16 is rotated, the tongue piece-like feeding member successively repeats an abutment engagement-separation motion with respect to the plurality of abutment engagement-separation members 21 disposed at a constant interval, and enables transport of the housing container 2 in the advancing direction.

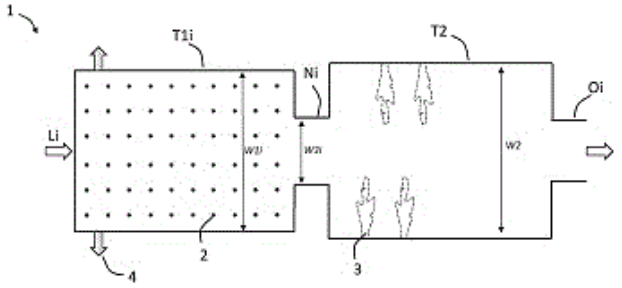


21: 2024/02297. 22: 2024/03/20. 43: 2025/05/08
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: BURNHAM, NEIL STEPHEN, GRAINGER, DAVID STEPHEN, THORLEY, DAVID CHRISTOPHER
33: EP 31: 21203927.5 32: 2021-10-21
33: EP 31: 21203931.7 32: 2021-10-21
33: EP 31: 21203922.6 32: 2021-10-21
54: DETERGENT COMPOSITIONS
00: -
The invention relates to a liquid detergent composition comprising: from 2 to 25 wt.% of a C12-C14 alkyl ethoxylated sulfate surfactant; wherein the alkyl ethoxylated sulfate surfactant comprises a C14 alkyl group at a level of at least 50 wt.% of the alkyl ethoxylated sulfate surfactant; wherein the average degree of ethoxylation (EO) is from 2.5 to 3.5; wherein with reference to the wt.% of the total ethoxylated portion of said alkyl ethoxylated sulfate surfactant, the level of 1 EO is from 10 to 25 wt.%, the level of 2EO is from 15 to 24 wt.%, the level of SEO is from 20 to 35 wt.%, and the level of 4EO is from 12 to 25 wt.%; and, wherein the C12-C14 alkyl ethoxylated sulfate surfactant includes at most 10 wt.% alkyl chains of C15 and higher; the invention also relates to the use and method to increase viscosity by inclusion of said specified alkyl ethoxylated sulfate surfactant.

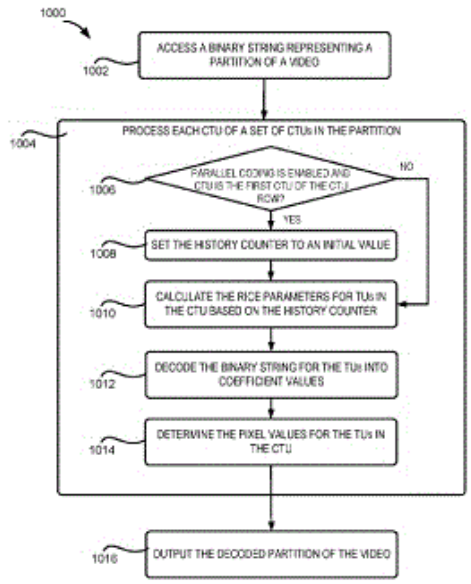
21: 2024/02298. 22: 2024/03/20. 43: 2025/05/08
51: C11D

71: UNILEVER GLOBAL IP LIMITED
72: BURNHAM, NEIL STEPHEN, GRAINGER, DAVID STEPHEN, THORLEY, DAVID CHRISTOPHER
33: EP 31: 21203922.6 32: 2021-10-21
33: EP 31: 21203931.7 32: 2021-10-21
33: EP 31: 21203927.5 32: 2021-10-21
54: DETERGENT COMPOSITIONS
00: -
The invention relates to a detergent composition comprising: from 0.5 to 50 wt.% of a C12-C14, alkyl ethoxylated sulfate surfactant; wherein the alkyl ethoxylated sulfate surfactant comprises a C14 alkyl group at a level of at least 50 wt.% of the alkyl ethoxylated sulfate surfactant; wherein the average degree of ethoxylation (EO) is from 2.5 to 3.5; wherein with reference to the wt.% of the total ethoxylated portion of said alkyl ethoxylated sulfate surfactant, the level of 1EO is from 10 to 25 wt.%, the level of 2EO is from 15 to 24 wt.%, the level of 3EO is from 20 to 35 wt.%, and the level of 4EO is from 12 to 25 wt.%; and, wherein the C12-C14 alkyl ethoxylated sulfate surfactant includes at most 10 wt.% alkyl chains of C15 and higher; the invention also relates to the use and method to enhance the foaming of a detergent composition by inclusion of said specified alkyl ethoxylated sulfate surfactant.

21: 2024/02348. 22: 2024/03/22. 43: 2025/05/08
51: C03B
71: AGC GLASS EUROPE
72: BIOUL, FRANÇOIS, BOURGEOIS, NICOLAS, HABIBI, ZAKARIA, FASILOW, FABRICE
33: EP 31: 21200998.9 32: 2021-10-05
33: EP 31: 21193304.9 32: 2021-08-26
54: SEGMENTED GLASS MELTING FURNACE
00: -
The present invention concerns a furnace for melting vitrifiable materials, comprising (I) at least one melting tank T1 with a crown provided with electrical heating means (ii) a fining tank T2 with a crown and provided with combustion heating means; (iii) at least one neck with a crown and separating the at least one melting tank and the fining tank; the furnace being defined by the following :W1 is at least 1.4xW3; W3 is at least 0.1xW2 and at most 0.6xW2 W1: width of tank T1; W2: being the width of tank T2; W3:being the width of neck This furnace is particularly advantageous as its global energy consumption as well as its CO2 consumption is reduced significantly through a high electrical input fraction (i.e. > 20% or even 30%) while not deteriorating or even improving its mechanical stability and lifetime of the furnace.



21: 2024/02384. 22: 2024/03/25. 43: 2025/05/29
51: H04N
71: GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
72: YU, YUE, YU, HAOPING
33: US 31: 63/260,600 32: 2021-08-26
33: US 31: 63/262,078 32: 2021-10-04
33: US 31: 63/251,385 32: 2021-10-01
54: HISTORY-BASED RICE PARAMETER DERIVATIONS FOR WAVEFRONT PARALLEL PROCESSING IN VIDEO CODING
00: -
In some embodiments, a video decoder decodes a video from a bitstream of the video using a history-based Rice parameter derivation along with the wavefront parallel processing (WPP). The video decoder accesses a binary string representing a partition of the video and processes each coding tree unit (CTU) in the partition to generate decoded coefficient values in the CTU. The process includes prior to decoding the CTU, determining whether WPP is enabled and the CTU is the first CTU of a current CTU row in the partition, and if so, setting a history counter to an initial value. The process further includes decoding the CTU by calculating the Rice parameters for transform units (TUs) in the CTU based on the value of the history counter and decoding the binary string corresponding to the TUs in the CTU into coefficient values of the TUs based on the calculated Rice parameters.



21: 2024/02387. 22: 2024/03/25. 43: 2025/05/08
51: C03C; C08K; C08J
71: JUSHI GROUP CO., LTD.
72: ZHANG, LIN, XING, WENZHONG, CAO, GUORONG, YAO, ZHONGHUA, CHAI, YUNFENG, LIU, JUAN
33: CN 31: 202310319034.6 32: 2023-03-29
54: LOW-DENSITY HIGH-PERFORMANCE GLASS FIBER COMPOSITION, GLASS FIBER AND COMPOSITE MATERIAL THEREOF
00: -
ABSTRACT The present disclosure provides a low-density high-performance glass fiber composition, and a glass fiber and a composite. The glass fiber composition comprises the following components expressed as percentage by weight: SiO_2: 58.1%-61.9%, Al_2O_3: >19.8% and ≤23%, MgO: 9.6%-12.7%, CaO: 4.1%-7.9%, SrO+Li_2O: 0.05%-2.2%, SrO: 0%-2%, Li_2O: 0%-0.39%, Na_2O: 0.05%-1.0%, R_2O=Na_2O+K_2O+Li_2O: 0.2%-1.6%, Fe_2O_3: 0.05%-1%, TiO_2: 0.01%-2%, B_2O_3: 0%-2%, ZrO_2: 0%-2%, and SiO_2+Al_2O_3: 78% -84%. The components have a total content of greater than or equal to 98.5%; a weight percentage ratio C1=SiO_2/(CaO+Al_2O_3) is greater than or equal to 7.05, a weight percentage ratio C2=(R_2O+SrO)/$Al_2O_3$is greater than or equal to 0.012, and a weight percentage ratio C3=(MgO+SrO)/CaO is greater than or equal to 1.22. The glass fiber composition has the characteristics of low density and high modulus, and has higher specific modulus and specific strength, better lightweight level, and cost advantages. It can also improve the crystallization temperature and rate of the glass, and expand the forming range of the glass fiber. Therefore, the composition is conducive to reducing production difficulty and improving production efficiency, and is suitable for large-scale tank furnace production of lightweight high-performance glass fibers.

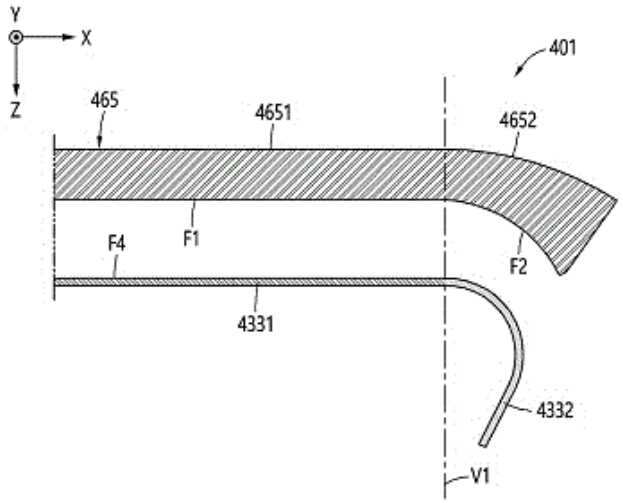
21: 2024/02434. 22: 2024/03/26. 43: 2025/05/08
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: ASTOLFI, RAFAEL, LEOPOLDINO , SERGIO ROBERTO , YAROVOY, YURIY KONSTANTINOVICH
33: EP 31: 21199326.6 32: 2021-09-28
54: CLEANSING COMPOSITION
00: -
A cleansing composition comprises a surfactant and a structurant. The structurant comprises a mixture of a fatty acid and a fatty acid soap. The fatty acid is present in an amount of greater than or equal to 88% by weight of the mixture, preferably greater than or equal to 95% by weight of the mixture, more preferably greater than or equal to 99% by weight of the mixture.

21: 2024/02436. 22: 2024/03/26. 43: 2025/05/08
51: D01F; D02G; A41D
71: CARRARO S.R.L.
72: CARRARO, RINALDO
33: IT 31: 102021000024659 32: 2021-09-27
54: A CONDUCTIVE YARN
00: -
An electrically conductive yarn for producing protective garments is described, wherein the yarn comprises: - a first electrically conductive strand; - a second strand different from the first strand and comprising fire-resistant synthetic fibres, wherein the first and second strands are coupled and twisted; the first strand comprises a core of a first metal and a coating of a second metal different from the first metal.

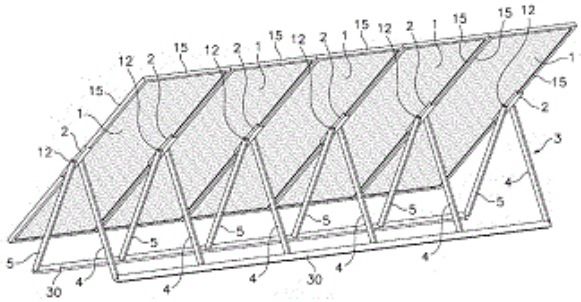
21: 2024/02457. 22: 2024/03/27. 43: 2025/05/08
51: C07C; A61K; A61P
71: LUNELLA BIOTECH, INC.
72: LISANTI, MICHAEL P, SOTGIA, FEDERICA, OZSVARI, BÉLA, KANGASMETSA, JUSSI

33: US 31: 63/024,216 32: 2020-05-13
54: MYRISTOYL DERIVATIVES OF 9-AMINO-DOXYCYCLINE FOR TARGETING CANCER STEM CELLS AND PREVENTING METASTASIS
00: -
Disclosed are 9-amino-doxycycline derivatives that target cancer stem cells and inhibit cancer metastasis. These compounds selectively target CSCs, potently inhibit tumor cell metastasis in vivo, with little or no toxicity, and minimize the risk of driving antibiotic resistance. In one embodiment, a 14 carbon fatty acid moiety is covalently attached to the free amino group of 9-amino-doxycycline. The resulting "Doxy-Myr" conjugate is over 5 -fold more potent than doxycycline for inhibiting the anchorage-independent growth of MCF7 CSCs. Doxy-Myr did not affect the viability of the total MCF7 cancer cell population or normal fibroblasts grown as 2D-monolayers, showing remarkable selectivity for CSCs. Doxy-Myr did not show antibiotic activity, against Escherichia coli and Staphylococcus aureus. Conjugates having either longer (16 carbon; palmitic acid) or shorter (12 carbon; lauric acid) fatty acid chain lengths had similar activity.

21: 2024/02482. 22: 2024/03/27. 43: 2025/05/08
51: G06F
71: SAMSUNG ELECTRONICS CO., LTD.
72: BAE, SEYOON, KIM, YONGYOUN, HEO, JOON, OH, CHANHEE
33: KR 31: 10-2021-0127720 32: 2021-09-28
54: FOLDABLE ELECTRONIC DEVICE COMPRISING FLEXIBLE PRINTED CIRCUIT BOARD
00: -
An electronic device may comprise, for example, a first housing, a second housing, a hinge cover, a hinge structure, a first region located in the first housing, a second region located in the second housing, and a display, and a flexible printed circuit board including: a rigid portion configured to be positioned over a first cover portion in a folded state; a first flexible portion connected to the rigid portion and configured to bend at least partially along a second cover portion; and a second flexible portion connected to the rigid portion, opposite to the first flexible portion, and configured to bend at least partially along a third cover portion. The rigid portion may be more rigid than the first flexible portion and the second flexible portion.



21: 2024/02483. 22: 2024/03/27. 43: 2025/05/08
51: F24S; H02S
71: CEP-IP LTD
72: GRANT, THOMAS MCGREGOR JAMES
33: EP 31: 21196431.7 32: 2021-09-13
54: ASSEMBLY FOR A PORTABLE SOLAR ENERGY SYSTEM
00: -
The present invention discloses a photovoltaic assembly for a portable solar energy system, the photovoltaic assembly comprising a row of interconnected photovoltaic panels, each photovoltaic panel comprising a perimeter frame; a foldable stiffening and/or supporting structure comprising articulated members, the foldable stiffening and/or supporting structure being movable between a folded position and an operative position; wherein it further comprises at least two support elements, each support element defining a support section for receiving and supporting at least one longitudinal side edge of the perimeter frame of two adjacent photovoltaic panels; said support element comprising a first lateral face perpendicular; and wherein one or more articulated members of the foldable stiffening and/or supporting structure are connected in an articulated manner to the first lateral face of the corresponding support element without traversing the one or more longitudinal side edges received in the support section.



21: 2024/02484. 22: 2024/03/27. 43: 2025/05/08
51: H02S; F24S
71: CEP-IP LTD
72: GRANT, THOMAS MCGREGOR JAMES
33: EP 31: 21196430.9 32: 2021-09-13

54: FOLDABLE PHOTOVOLTAIC ASSEMBLY FOR A PORTABLE SOLAR ENERGY SYSTEM

00: -

The present invention discloses a photovoltaic assembly for a portable solar energy system, the photovoltaic assembly comprising: a row of interconnected photovoltaic laminates, each photovoltaic laminate comprising a pair of longitudinal and transverse side edges having an internal and an external major surface; a foldable stiffening or supporting structure comprising articulated members, the foldable stiffening or supporting structure being movable between a folded position and an operative position; wherein it further comprises at least two support elements, each support element being attached at least to the internal major surface of longitudinal side edges of adjacent photovoltaic laminates, each support element having a closed cross-section and comprising a first lateral face perpendicular to the internal major surface of the photovoltaic laminate; and wherein one or more articulated members of the stiffening or supporting structure are connected in an articulated manner to the first lateral face of the corresponding support element.

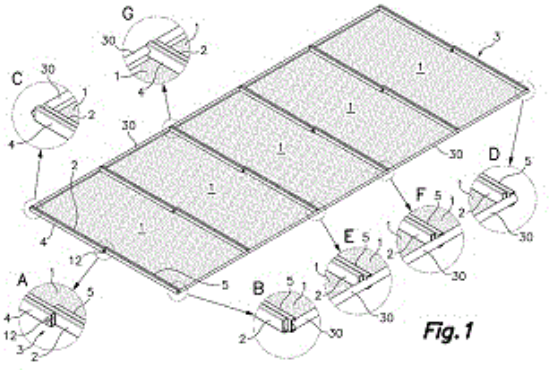


Fig. 1

21: 2024/02485. 22: 2024/03/27. 43: 2025/05/08
51: H02S; F24S; H01L
71: CEP-IP LTD
72: GRANT, THOMAS MCGREGOR JAMES
33: EP 31: 21196429.1 32: 2021-09-13

54: PHOTOVOLTAIC ASSEMBLY FOR A PORTABLE SOLAR ENERGY SYSTEM

00: -

The present invention discloses a photovoltaic assembly for a portable solar energy system, the photovoltaic assembly comprising: a row of interconnected photovoltaic panels or laminates; a foldable stiffening and/or supporting structure comprising articulated members, the foldable stiffening and/or supporting structure being movable between a folded position, in which the articulated members are received in a receiving zone provided in the photovoltaic assembly, and an operative position, in which the foldable stiffening and/or supporting structure protrudes out from the receiving zone; and wherein the receiving zone comprises at least one intermediate region located adjacent to contiguous longitudinal side edges of adjacent photovoltaic panels or laminates, said intermediate region being configured to receive therein in the folded position one or more of the articulated members of the stiffening and/or supporting structure. The photovoltaics panels or laminates are interconnected by at least a first connection pin and/or by at least one intermediate beam.

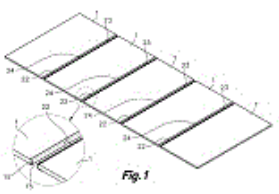


Fig. 1

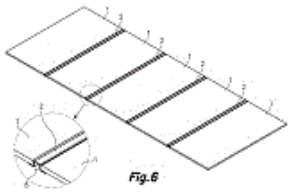
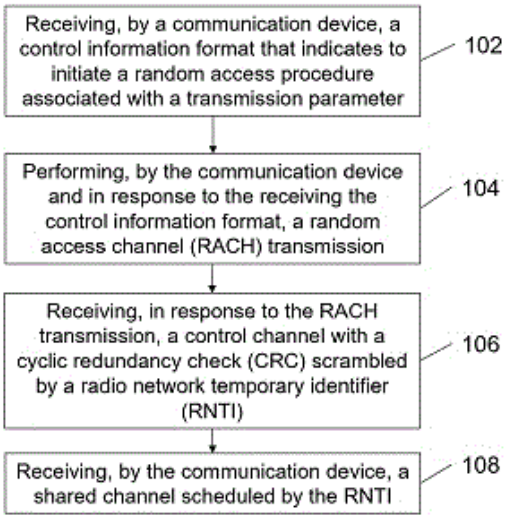


Fig. 6

21: 2024/02486. 22: 2024/03/27. 43: 2025/05/08
51: C08J
71: ASIA PACIFIC RESOURCES INTERNATIONAL HOLDINGS LTD.
72: GINTING, EDUWARD, ANTES, RUDINE, YING, H'NG YIN, PANDITA, SURYA DARMA
33: SG 31: 10202109553V 32: 2021-09-01
54: A METHOD OF RECYCLING TEXTILE WASTE CELLULOSE
00: -
The present invention provides a method of recycling cellulose for use as a textile fibre feedstock, the method comprising: (i) providing a waste textile feedstock comprising greater than 50 wt% cellulose by weight of the waste textile feedstock; (ii) shredding the waste textile feedstock to provide a shredded waste textile feedstock comprising fibres which have a fibre length of less than 5 mm; (iii) mixing the shredded waste textile feedstock with an aqueous alkali solution having a pH of greater than 11 to produce a first mixture; (iv) filtering the first mixture to obtain an alkali treated shredded waste textile feedstock; (v) mixing the alkali treated shredded waste textile feedstock with an aqueous acid solution having a pH of less than 5 to produce a second mixture; and (vi) filtering the second mixture to obtain cellulose.

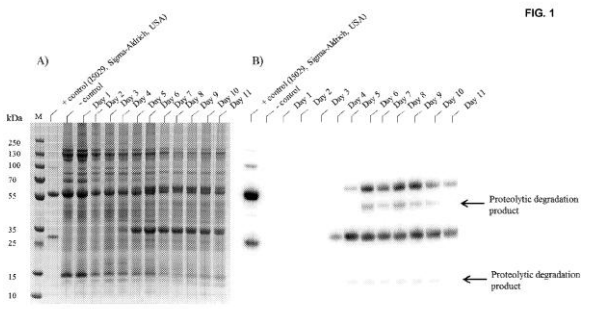
21: 2024/02487. 22: 2024/03/27. 43: 2025/05/08
51: H04W
71: ZTE CORPORATION
72: GUO, XIAOLONG, GAO, BO, ZHANG, YANG, YANG, LING, YAO, KE
54: RANDOM ACCESS PROCEDURE TECHNIQUES
00: -
Techniques are described to perform random access. An example wireless communication method includes receiving, by a communication device, a control information format that indicates to initiate a random access procedure associated with a transmission parameter; performing, by the communication device and in response to the receiving the control information format, a random access channel (RACH) transmission; receiving, in response to the RACH transmission, a control channel with a cyclic redundancy check (CRC) scrambled by a radio network temporary identifier (RNTI), where the RNTI is associated with the RACH transmission; and receiving, by the communication device, a shared channel scheduled by the RNTI, where the control channel and the shared channel are received during a random access response window that is defined according to a rule.



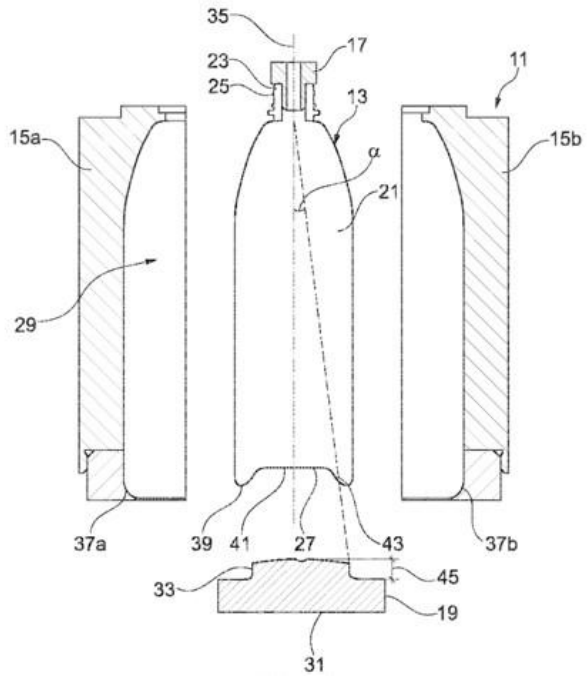
21: 2024/02501. 22: 2024/03/27. 43: 2025/05/08
51: C03C
71: OWENS-BROCKWAY GLASS CONTAINER INC.
72: CHISHOLM, BRIAN
33: US 31: 17/483,919 32: 2021-09-24
54: METHOD FOR APPLYING A PRIMER COATING TO GLASS CONTAINERS
00: -
A method of manufacturing a glass container in preparation for direct digital printing includes forming

a glass container having a glass wall and applying a primer coating to the glass container. The primer coating is applied by directing an atomized spray of an aqueous primer composition onto the glass container over an adherent base layer, such as a hot-end coating, which deposits the primer coating, followed by heating the primer coating with a heat source such as a flame. Upon being heated, the clarity of the primer coating is increased. As a result, a decorative marking may be printed onto the glass container without having to pretreat the glass container in a way that involves pyrolytically depositing a layer of silicon dioxide onto the glass container prior to printing.

21: 2024/02547. 22: 2024/04/02. 43: 2025/07/09
51: C12N
71: COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, UNIVERSITY OF PRETORIA
72: PILLAY, Priyen, SINGH, Advaita Acarya, TSEKOA, Tsepo Lebiletsa, CHIKWAMBA, Rachel Kerina, VORSTER, Juan Barend, KUNERT, Karl Josef
33: ZA 31: 2021/06641 32: 2021-09-09
54: PLANT-BASED RECOMBINANT PROTEIN EXPRESSION SYSTEM
00: -
The current invention relates to a method of downregulating the expression of one or more cysteine protease(s) selected from the group consisting of papain-like cysteine proteases (PLCPs) or legumain-like (LLCPs) cysteine proteases, in particular NbCysP6, NbVPE-1a and NbVPE-1b, in a plant, including with the expression a genome editing vector for targeted mutagenesis of the cysteine protease(s). The invention further relates to a method of increasing the yield and/or quality of recombinant proteins in the plant where expression of the one or more cysteine protease(s) has been downregulated in accordance with the method of the invention.

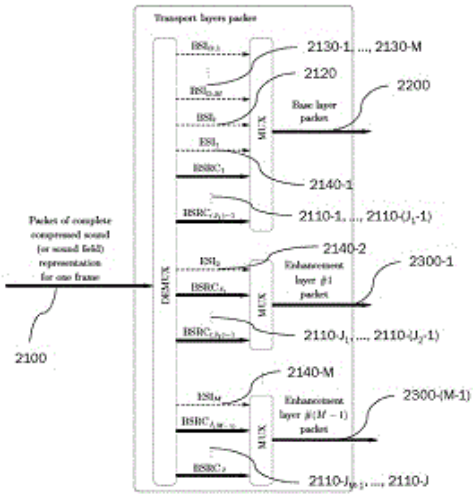


21: 2024/02550. 22: 2024/04/02. 43: 2025/07/09
51: B29C; B29L
71: ALPLA WERKE ALWIN LEHNER GMBH & CO. KG
72: Adem DEMIR, Andreas REHDERS
33: CH 31: 070266/2021 32: 2021-09-14
54: MOLD AND STRETCH-BLOW-MOLDED POLYESTER BOTTLE
00: -
The invention relates to a mold (11) for producing a stretch-blow molded polyester bottle (13) comprising a bottle neck (23), a bottle body (21) and a bottle bottom (27) from a preform, the mold parts for which can be shifted between an open position and a closed position. The mold (11) comprises: a first and a second mold shell (15a, 15b), within which, in the closed position, the bottle body (21) can be molded; a holding stopper (17), which can be inserted into the bottle neck (23); a blow pin having a compressed-air intake for biaxial stretching of the preform; and a bottom part (19), which closes the two mold shells (15a, 15b) at the bottom side and which is intended to mold the bottle bottom (27). A base (31) is formed on the bottom part (19), which base projects into the interior (29) of the mold (11) and of which base the side wall (33) has an inclination angle (a) of at most 5 degrees with respect to the vertical axis (35) of the mold (11) and is oriented preferably in parallel with the vertical axis (35) of the mold (11).

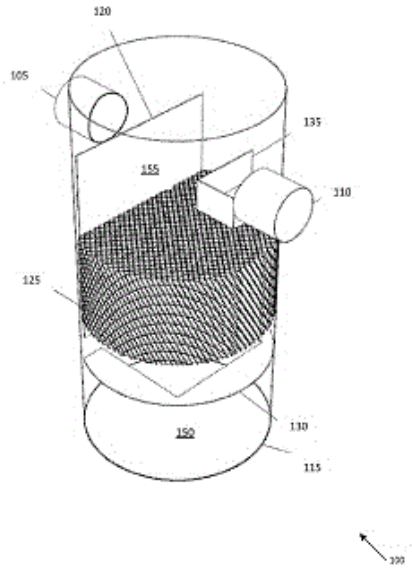


21: 2024/02599. 22: 2024/04/03. 43: 2025/05/08
51: C12N C12P
71: CJ CHEILJEDANG CORPORATION
72: KIM, Heeyeong, KIM, Kyungrim, CHOI, Woosung, CHEONG, Ki Yong
33: KR 31: 10-2021-0128911 32: 2021-09-29
54: NOVEL ACETOHYDROXY ACID SYNTHASE VARIANT, AND METHOD FOR PRODUCING L-ISOLEUCINE USING SAME
00: -
The present application relates to a novel acetohydroxy acid synthase (AHAS) variant that improves L-isoleucine production ability, a microorganism containing same, and a method for producing L-isoleucine using the microorganism. The purpose of the present invention is for use in a wide range of industrial applications such as food, feed, and medicine that utilize L-isoleucine.

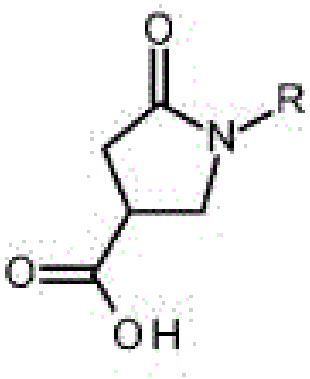
21: 2024/02611. 22: 2024/04/04. 43: 2025/05/30
51: G10L
71: DOLBY INTERNATIONAL AB
72: KORDON, SVEN, KRUEGER, ALEXANDER
33: EP 31: 15306589.1 32: 2015-10-08
33: US 31: 62/361,416 32: 2016-07-12
33: US 31: 62/361,461 32: 2016-07-12
33: EP 31: 15306653.5 32: 2015-10-15
54: LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS
00: -
The present document relates to a method of layered encoding of a compressed sound representation of a sound or sound field. The compressed sound representation comprises a basic compressed sound representation comprising a plurality of components, basic side information for decoding the basic compressed sound representation to a basic reconstructed sound representation of the sound or sound field, and enhancement side information including parameters for improving the basic reconstructed sound representation. The method comprises sub-dividing the plurality of components into a plurality of groups of components and assigning each of the plurality of groups to a respective one of a plurality of hierarchical layers, the number of groups corresponding to the number of layers, and the plurality of layers including a base layer and one or more hierarchical enhancement layers, adding the basic side information to the base layer, and determining a plurality of portions of enhancement side information from the enhancement side information and assigning each of the plurality of portions of enhancement side information to a respective one of the plurality of layers, wherein each portion of enhancement side information includes parameters for improving a reconstructed sound representation obtainable from data included in the respective layer and any layers lower than the respective layer. The document further relates to a method of decoding a compressed sound representation of a sound or sound field, wherein the compressed sound representation is encoded in a plurality of hierarchical layers that include a base layer and one or more hierarchical enhancement layers, as well as to an encoder and a decoder for layered coding of a compressed sound representation.



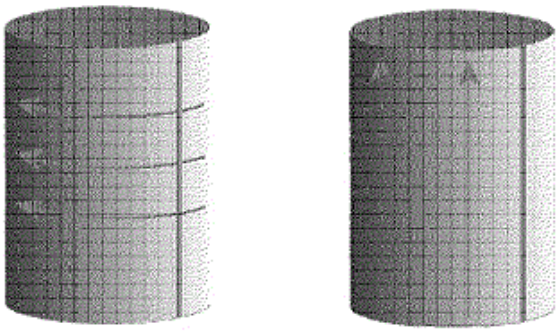
21: 2024/02630. 22: 2024/04/04. 43: 2025/05/30
51: B01D; C02F
71: STORMTRAP, LLC
72: WILLIAMS, GREGORY, FAJMAN, DAN, MORAN, ROBERT J, MATTESON, LUKE
33: US 31: 17/477,274 32: 2021-09-16
54: SYSTEMS, METHODS, AND DEVICES FOR REMOVING CONTAMINANTS FROM STORMWATER
00: -
A stormwater treatment device may include a chamber having a floor and a wall; an inlet formed in the wall that receives stormwater into an inlet side of the chamber; an outlet formed in the wall that discharges stormwater from an outlet side of the chamber; an enhanced settling device positioned in the outlet side of the chamber; a flow diverter plate in a lower portion of the chamber; and an outlet control diverter positioned proximate to the outlet. Stormwater is received by the inlet in a first flow direction, flows from the inlet side to the lower portion of the chamber in a second flow direction, flows through the enhanced settling device to an upper portion of the chamber in a third flow direction, flows through the outlet control diverter in fourth flow direction, and is discharged by the outlet in a fifth flow direction.



21: 2024/02645. 22: 2024/04/05. 43: 2025/07/10
51: B03D
71: CLARIANT INTERNATIONAL LTD
72: LEINWEBER, Dirk, GROSSMANN, Adriana, DA SILVA, 'Wagner Claudio, BICALHO, Leandro Seixas
33: US 31: 17/470,795 32: 2021-09-09
33: EP 31: 21199322.5 32: 2021-09-28
54: COMPOSITION AND METHOD FOR USE OF 1-ALKYL-5-OXOPYRROLIDINE-3-CARBOXYLIC ACIDS AS COLLECTORS FOR PHOSPHATE AND LITHIUM FLOTATION
00: -
The invention relates to a flotation agent for lithium or phosphate ore, comprising at least one fatty acid and at least one 1-alkyl-5-oxopyrrolidine-3-carboxylic acid or 1-alkenyl-5-oxopyrrolidine-3-carboxylic acid or a mixture thereof of the formula (1) wherein R is a C7 to C21 alkyl or alkenyl group, wherein the amount of fatty acid is from 70 to 99 wt.-%, and wherein the amount of the 1-alkyl-5-oxopyrrolidine-3-carboxylic acid or 1-alkenyl-5-oxopyrrolidine-3-carboxylic acid of the formula (I) is from 1 to 30 wt.-%.



21: 2024/02653. 22: 2024/04/05. 43: 2025/05/30
51: C22C; C21D
71: TATA STEEL IJMUIDEN B.V.
72: GAMBLE, JOHN ANTONY
33: EP 31: 21204747.6 32: 2021-10-26
33: EP 31: 21202573.8 32: 2021-10-14
54: METHOD FOR PRODUCING HIGH-STRENGTH TINPLATE AND TINPLATE PRODUCED THEREWITH
00: -
This invention relates to a method for producing high strength three piece steel can body and cans produced therewith.



C - grain H - grain

21: 2024/02721. 22: 2024/04/09. 43: 2025/05/30
51: G10L
71: DOLBY INTERNATIONAL AB
72: KJOERLING, KRISTOFER, VILLEMOES, LARS, PURNHAGEN, HEIKO, EKSTRAND, PER
33: US 31: 62/662,296 32: 2018-04-25
54: INTEGRATION OF HIGH FREQUENCY RECONSTRUCTION TECHNIQUES WITH REDUCED POST-PROCESSING DELAY
00: -
A method for decoding an encoded audio bitstream is disclosed. The method includes receiving the encoded audio bitstream and decoding the audio data to generate a decoded lowband audio signal. The method further includes extracting high frequency reconstruction metadata and filtering the decoded lowband audio signal with an analysis filterbank to generate a filtered lowband audio signal. The method also includes extracting a flag indicating whether either spectral translation or harmonic transposition is to be performed on the audio data and regenerating a highband portion of the audio signal using the filtered lowband audio signal and the high frequency reconstruction metadata in accordance with the flag. The high frequency regeneration is performed as a post-processing operation with a delay of 3010 samples per audio channel.

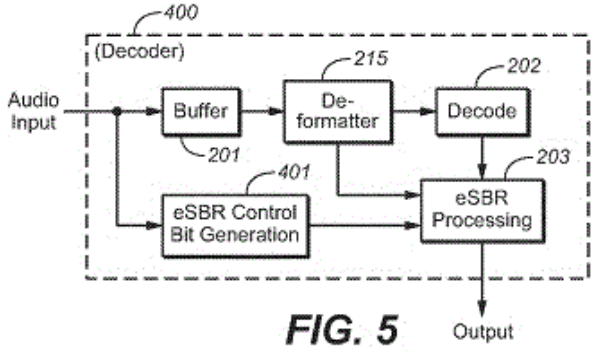


FIG. 5

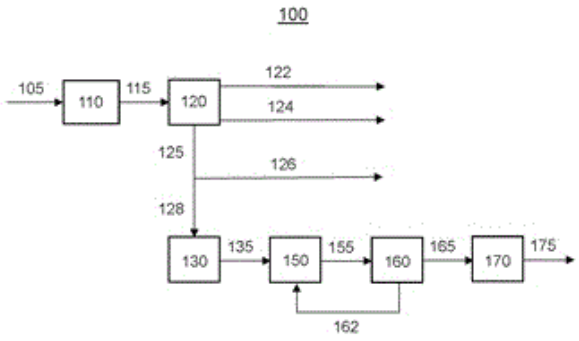
21: 2024/02732. 22: 2024/04/09. 43: 2024/10/14
51: A61K
71: TRANSLATIONAL HEALTH AND SCIENCE AND TECHNOLOGY INSTITUTE
72: SAMAL, Sweety, AHMED, Shubbir, AWASTHI, Amit, KHATRI, Ritika
33: IN 31: 202111046243 32: 2021-10-11
54: MULTIEPITOPE SELF-ASSEMBLED NANOPARTICLE VACCINE PLATFORM (MSN-VACCINE PLATFORM) AND USES THERE OF
00: -
The present invention is drawn to a next generation nano vaccine platform by using structure- based design to utilize the conserved or less variable or highly immunogenic domains or epitopes and displaying it in a nano cage and produces it in as nanoparticle protein in prokaryotic expression system. The present invention is illustrated in detail by a vaccine design and construct for SARS CoV-2, SARS-CoV-2 variants, betacorona viruses, Monkey pox virus and Dengue virus.

21: 2024/02736. 22: 2024/04/09. 43: 2025/05/30
51: C07C
71: CHEVRON PHILLIPS CHEMICAL COMPANY LP
72: BISCHOF, STEVEN M, HILLIER, JAMES L
33: US 31: 17/471,278 32: 2021-09-10

54: SELECTIVE 1-HEXENE/1-OCTENE PRODUCTION WITH 1-DECENE

00: -

A process to produce 1-octene and 1-decene includes (a) separating a composition containing an oligomer product – which contains from 15 to 80 mol % C_6 olefins, from 20 to 80 mol % C_8 olefins, and from 5 to 20 mol % C_{10}+ olefins – into a first oligomer composition containing C_6 alkanes and at least 85 mol % C_6 olefins (e.g., 1-hexene), a second oligomer composition containing at least 85 mol % C_8 olefins (e.g., 1-octene), and a heavies stream containing C_{10}+ olefins, then (b) contacting a metathesis catalyst system with the first oligomer composition to form a first composition comprising C_{10} linear internal olefins, (c) contacting the C_{10} linear internal olefins with an isomerization hydrofunctionalization catalyst system to form a second composition containing a functionalized alkane, (d) retro-hydrofunctionalizing the functionalized alkane to form a third composition containing 1-decene, and (e) purifying the third composition to isolate a fourth composition containing at least 90 mol % 1-decene. Processes to produce 1-hexene and 1-decene also are described, as well as related manufacturing systems.

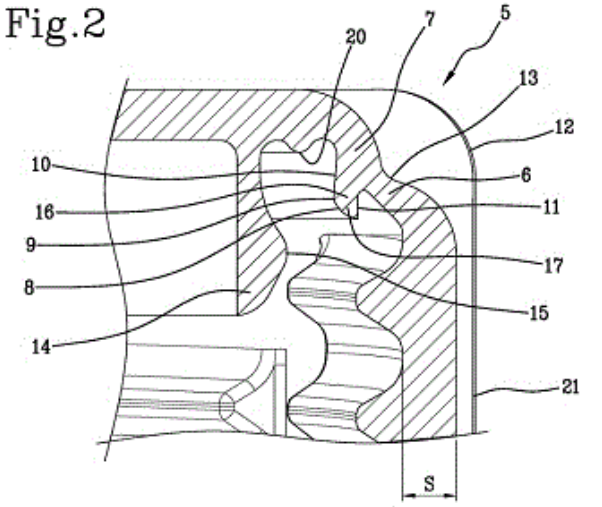


21: 2024/02738. 22: 2024/04/09. 43: 2025/05/30
51: B65D
71: SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA
72: FALZONI, ALESSANDRO
33: IT 31: 102021000025709 32: 2021-10-07

54: CAP FOR CONTAINERS

00: -

A cap for a container comprises an end wall (4), a skirt (2) which extends about an axis (Z) and a corner zone (5) interposed between the end wall (4) and the skirt (2). The corner zone (5) comprises a first wall portion (6) which projects from the skirt (2) towards the inside of the cap (1) and a second wall portion (7) which protrudes from the end wall (4) and is joined to the first wall portion (6). The first wall portion (6) and the second wall portion (7) define a step on a surface of the corner zone (5) facing towards the outside of the cap (1; 101). The cap (1) further comprises an annular sealing lip (8) which extends towards a free edge (30) of the skirt (2) from a region in which the first wall portion (6) is joined to the second wall portion (7). The annular sealing lip (8) is delimited by an inner surface (9) configured to engage with an outer lateral surface of a neck (31) of the container.



21: 2024/02739. 22: 2024/04/09. 43: 2025/05/30
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: MAHAPATRA, SAMIRAN, MOHAPATRA, NAMISHA, SAMPATH KUMAR, RAMYA
33: EP 31: 22150064.8 32: 2022-01-03
33: IN 31: 202121050437 32: 2021-11-03

54: HYGIENE COMPOSITION FOR REDUCTION OF MALODOUR

00: -

The present invention relates to a composition that is used to reduce malodour on surfaces particularly inanimate soft surfaces like those of fabric, and hard surfaces like those on utensils, furniture, floors,

walls, and on toilets such that they remain fresh and free of malodours for long time after the surface is cleaned with the composition. The composition is also useful for application on bodily surfaces eg. the underarm region to get antimalodour benefit. This is achieved through a composition that includes an aluminium, zirconium or mixed aluminium/zirconium halohydrate along with a polysaccharide selected from one or both of pectin and algin.

21: 2024/02740. 22: 2024/04/09. 43: 2025/05/30
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: BATCHELOR, STEPHEN NORMAN
33: EP 31: 21204775.7 32: 2021-10-26
54: COMPOSITION
00: -
A laundry liquid composition in a container, the composition comprising a surfactant, said surfactant comprising C18 alkyl-containing anionic or non-ionic surfactant, a free fragrance and wherein the container comprises at least 50% wt. post-consumer recycled resin (PCR) comprising polyolefin or polyester.

21: 2024/02741. 22: 2024/04/09. 43: 2025/05/30
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: WU, GUOHUI
33: EP 31: 21205768.1 32: 2021-11-01
54: CLEANSING BAR AND COMPOSITION THEREOF
00: -
A cleansing bar, comprising: 5 to 50% by weight soap and free fatty acid, based on the total weight of the cleansing bar, comprising 30 to 50% by weight free fatty acid based on the total weight of the cleansing bar and 0 to 16% by weight soap based on the total weight of the cleansing bar; wherein the weight ratio of free fatty acid:soap is greater than 1:1;10 to 25% by weight non-soap synthetic surfactants, based on the total weight of the cleansing bar; 9 to 50% by weight zeolite, based on the total weight of the cleansing bar; and 10 to 30% by weight water, based on the total weight of the cleansing bar; wherein a pH of the cleansing bar measured from an 8% by weight bar slurry is 4.5 to 10. The bars are produced via a high-speed extrusion process without negatives (e.g., free of grittiness, cracking, etc.) while retaining good user properties (e.g., lather).

21: 2024/02742. 22: 2024/04/09. 43: 2025/05/30
51: C11D
71: UNILEVER GLOBAL IP LIMITED
72: ACHARYA I S, NAGARAJA, APPAVOO, SHANTHI, MAHAPATRA, SAMIRAN
33: EP 31: 22153763.2 32: 2022-01-27
54: A LIQUID DISHWASH COMPOSITION
00: -
The present invention relates to a liquid dishwash composition. It particularly relates to a liquid composition that not only cleans and but also effectively disinfects utensils. The compositions can be delivered as a spray from a hand held spray pump. This has been achieved through a selective combination of two anionic surfactants, one non-ionic surfactant, a biodegradable chelating agent and a solvent.

21: 2024/02743. 22: 2024/04/09. 43: 2025/05/30
51: C12N; A61K; A61P
71: AIM IMMUNOTECH INC.
72: EQUELS, THOMAS K, STRAYER, DAVID R
33: US 31: 63/248,232 32: 2021-09-24
54: COMPOSITIONS AND METHODS FOR ENHANCING AND EXPANDING INFECTION INDUCED IMMUNITY
00: -
Methods and compositions are provided for the treatment of virus infections in a subject which can be a human subject. The methods include administering one or more doses of a composition comprising therapeutic double- stranded RNA (tdsRNA) to a subject after active viral replication in the nasal passages of the subject. Following administration, the tdsRNA induces an enhanced and cross protective immune response to the virus or a broad-based immune response to the virus and variants thereof.

21: 2024/02766. 22: 2024/04/10. 43: 2025/05/20
51: B29C
71: MECHATECH ENGINEERING SOLUTIONS PTY LTD
72: MACFARLANE, ALEXANDER BLAIR STUART, GILFILLAN, CULLEN LEO, BRILLIANT, THABELO MAKGAPOLE, HORRMANN, LLOYD ERNEST
33: ZA 31: 2023/04947 32: 2023-05-04

54: 3D PRINT HEAD AND 3D PRINTING MACHINE
00: -
A print head for an additive manufacturing machine. The print head includes a body, a printing nozzle and a nozzle displacement arrangement. The body is secured/securable to a displacement arrangement or a carriage of the additive manufacturing machine, for moving the print head relative to an article/product/item to be manufactured by the print head. The printing nozzle is displaceably mounted to the body via the nozzle displacement arrangement. The nozzle displacement arrangement is configured to displace/move the printing nozzle relative to the body along a first axis. The printing nozzle may be rotatably mounted relative to the body such that the printing nozzle may rotate relative to the body about a third axis of rotation. The printing nozzle may have a tip portion which includes the outlet out of which print material is discharged during use, wherein the outlet is offset from, or spaced radially from, the third axis.

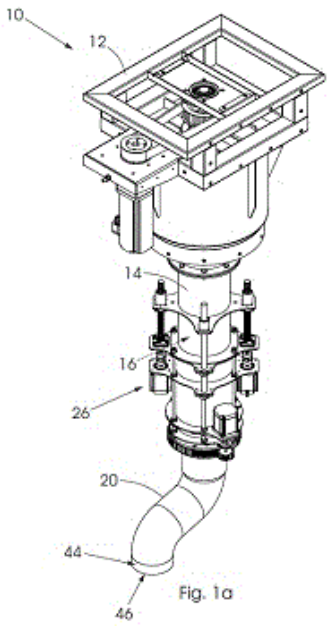
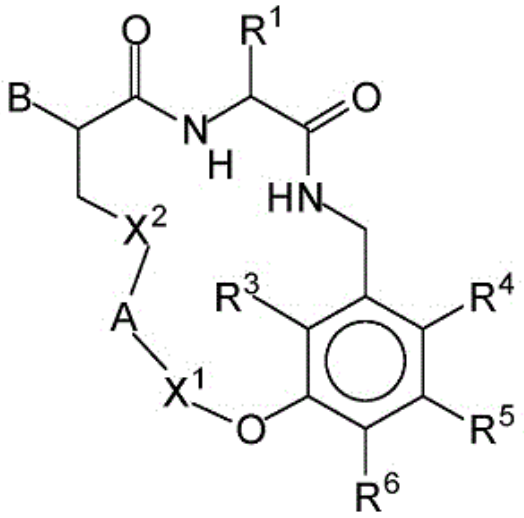


Fig. 1a

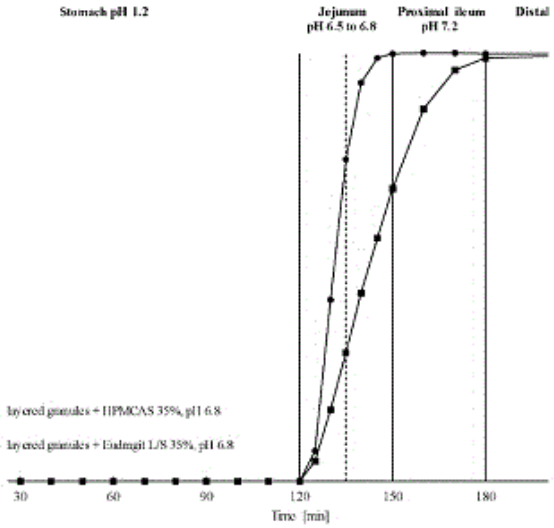
21: 2024/02783. 22: 2024/04/10. 43: 2025/06/25
51: C21D; C22C
71: ARCELORMITTAL
72: Laura MARTINEZ TARANILLA, Lode DUPREZ, Laura MOLI SANCHEZ, Tom WATERSCHOOT, Atish KUMAR HATUI
54: HOT ROLLED AND STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF
00: -
A hot rolled steel sheet having a composition comprising of the following elements 0.38% ≤ Carbon ≤ 0.5 %, 1%≤ Manganese ≤ 2%, 0.1%≤ Silicon ≤ 0.7%, 0 01%≤ Aluminum ≤ 0.1%, 0.3% ≤ Chromium ≤ 1%, 0.002% ≤ Boron ≤ 0.05%,0.002 % ≤ Phosphorus ≤ 0.02%, 0% ≤ Sulfur ≤ 0.005%, 0 % ≤ Nitrogen ≤ 0.01%,0% ≤ Molybdenum ≤ 0.5%,0% ≤ Vanadium ≤ 0.5%,0% ≤ Niobium ≤ 0.05%,0.001% ≤ Titanium ≤ 0.1%,0% ≤ Nickel ≤ 1%,0% ≤ Copper ≤ 1%,0% ≤ Tin ≤ 0.1%,0% ≤ Lead ≤ 0.1%,0% ≤ Antimony ≤ 0.1%,0.0001% ≤ Calcium ≤ 0.01%,0% ≤ Magnesium ≤ 0.0010%,the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel sheet comprising in area fraction, at least 94% Martensite, 0% to 5% Residual Austenite and carbides of Chromium, Niobium, Vanadium and Iron from 0% to 5%.

21: 2024/02784. 22: 2024/04/10. 43: 2025/05/30
51: C07D; A61P; A61K
71: LEAD DISCOVERY CENTER GMBH, QLI5 THERAPEUTICS AG
72: KOCH, UWE, ZISCHINSKY, GUNTHER, UNGER, ANKE, NUSSBAUMER, PETER, KLEBL, BERT, CHOIDAS, AXEL, DINKEL, KLAUS, ENGEL, JULIAN, DEGENHART, CARSTEN, HUBER, ROBERT, NAM, KIYEAN, KIM, JAESEUNG, SEO, JEONGJEA, LEE, SEUNG-JOO, JEON, YEEJIN, AHN, WONGYUN
33: EP 31: 21199013.0 32: 2021-09-24
54: MACROCYCLIC COMPOUNDS AS PROTEASOME SUBUNIT BETA TYPE-5 INHIBITORS
00: -
The present invention relates to certain macrocyclic compounds of the formula (I) and pharmaceutically acceptable salts thereof. These compounds are useful in the treatment or prevention of a disease associated with and/or caused by proteasome or immunoproteasome, selected from a cancer, an infectious disease, an inflammatory disease, and autoimmune disease.

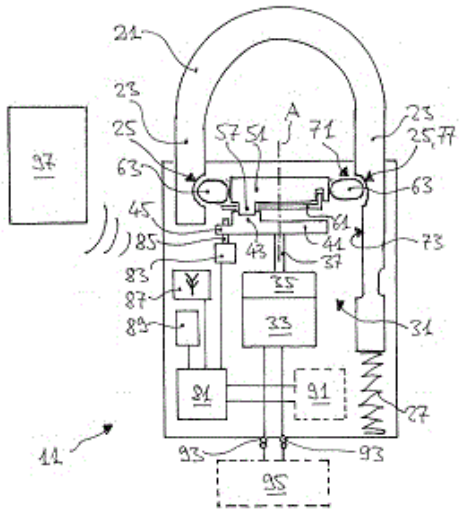


(I)

21: 2024/02786. 22: 2024/04/10. 43: 2025/05/30
51: A61K; A61P
71: DR. FALK PHARMA GMBH
72: WILHELM, RUDOLF, TEWES, BERNHARD, GREINWALD, ROLAND
33: EP 31: PCT/EP2021/079584 32: 2021-10-25
54: ORAL FORMULATION OF A PYRIDINONE DERIVATE AND USE THEREOF IN PROPHYLAXIS AND/OR TREATMENT OF INTESTINAL FIBROSIS
00: -
The present invention relates to an oral formulation adapted for selective delivery of a drug to the small intestine of a mammal comprising or consisting of: a plurality of particles in form of coated granules, coated pellets, coated beads, coated minicapsules, or coated minitablets, each particle containing (S,E)-methyl-7-(1-(2-(2-ethylbutylamino)-2-oxoethyl)-2-oxo-1,2-dihydro-pyridin-3-ylamino)-6-(1-methyl-1H-imidazole-5-carboxamido)-7-oxohept-2-enoate of formula (I), or an enantiomer, a solvate, a hydrate or a pharmaceutically acceptable salt thereof as the drug, a core material, and an enteric coating polymer, wherein each particle is coated with at least one coating layer containing or consisting of the enteric coating polymer; a preparation method of said oral formulation; and a medical use of said oral formulation in prophylaxis or treatment of intestinal fibrosis, in particular, fibrostenotic Crohn's disease.



21: 2024/02787. 22: 2024/04/10. 43: 2025/05/30
51: E05B
71: ABUS AUGUST BREMICKER SÖHNE KG
72: THEIS, MARKUS, NEVELING, MANUEL CORNELIUS
33: DE 31: 10 2022 100 409.0 32: 2022-01-10
54: MOBILE ELECTRONIC LOCK
00: -
A mobile electronic lock comprises a lock body and a securing element that can move between a locked position and an open position. The lock body comprises an electromechanical locking device, which has an electric motor, a driver, a rotating bolt, a restoring spring, a blocking mechanism, and a control circuit. For opening, the rotating bolt is driven by the driver into an unlocked position, in which the securing element is unlocked for movement into the open position, and the driver is rotated back into an initial position using torsional play. The blocking mechanism initially blocks the rotating bolt in the unlocked position to prevent a restoring movement. By bringing the securing element from the open position into the closed position, the blocking mechanism can be released in order to release the rotating bolt and thus release the restoring spring so that the rotating bolt is mechanically driven by the restoring spring to perform a restoring movement into the locking position.



21: 2024/02798. 22: 2024/04/10. 43: 2025/05/30
51: B01J; C07C
71: JOHNSON MATTHEY PUBLIC LIMITED COMPANY
72: CARTHEY, NICHOLAS, DUMMER, NICHOLAS FRANCOIS, HUTCHINGS, GRAHAM JOHN, JOHNSTON, PETER, LAZARIDOU, ANNA, PATTISSON, SAMUEL DAVID, SMITH, LOUISE RHIANNON, SMIT, JOOST
33: EP 31: 21386079.4 32: 2021-12-17
54: GOLD CONTAINING CATALYST, METHOD OF PREPARATION AND USE
00: -
The specification describes a method for the production of a hydrochlorination catalyst, comprising the steps of: i) preparing an impregnation solution by combining a source of gold and a ligand in a solvent, wherein the solvent comprises an organic solvent; ii) impregnating a support with the impregnation solution from step (i); and iii) drying the product of step (ii) to obtain the catalyst. Also described are hydrochlorination catalysts comprising a complex of gold and a ligand of Formula (I) supported on a support. These catalysts are particularly suitable for the conversion of acetylene to vinyl chloride monomer.

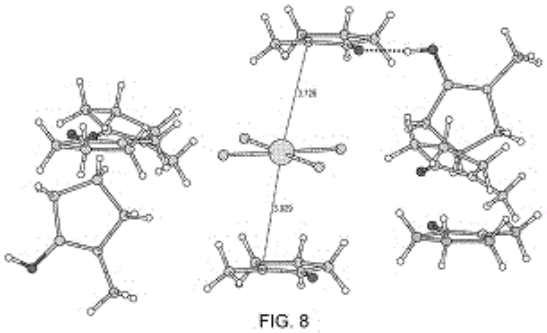
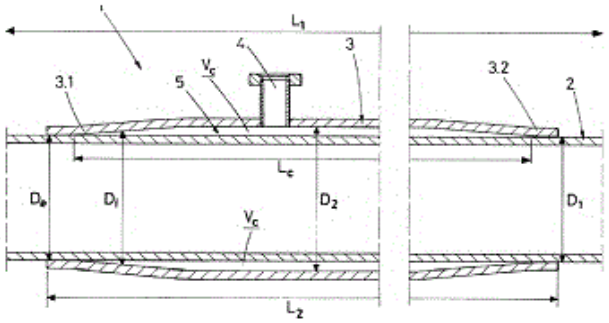
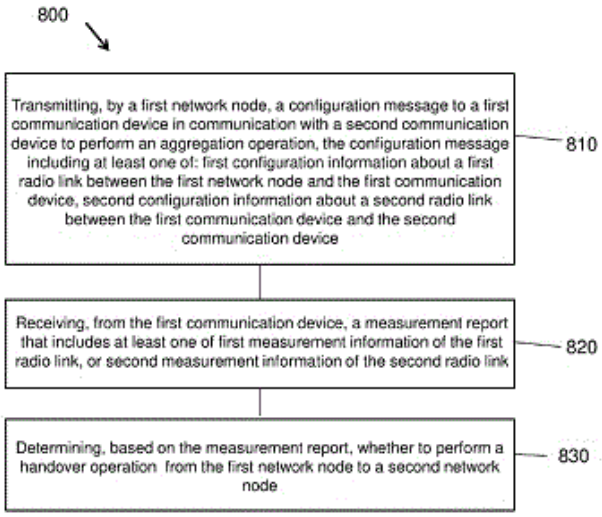


FIG. 8

21: 2024/02825. 22: 2024/04/11. 43: 2025/05/30
51: F24S
71: RIOGLASS SOLAR SCH, SL
72: MACCARI, AUGUSTO, ESQUINAS NAVAS, EVARISTO MANUEL, MORALES GARCÍA, ANA ISABEL, NÚÑEZ, JUAN PABLO, MUÑOZ, ÁLVARO
33: EP 31: 21382821.3 32: 2021-09-13
54: DEVICE AND SYSTEM FOR MONITORING THE CONDITIONS OF A THERMAL FLUID, AND METHOD FOR SAID MONITORING
00: -
The present invention relates to a device (1) for monitoring the conditions of a thermal fluid, comprising: an inner tube (2) with a length L_1 and an outer diameter D_1, and an outer tube (3) with a length L_2, wherein the outer tube (3) comprises a central portion with an inner diameter D_2 and ends (3.1,3.2), the inner diameter D_i of which gradually decreases towards the narrowest part thereof having a diameter D_e, wherein the inner diameter D_e is smaller than the inner diameter D_2. The inner tube (2) is arranged coaxially inside the outer tube, the length L_1 of the inner tube (2) is greater than the length L_2 of the outer tube (3), and the inner diameter D_e substantially coincides with the outer diameter D_i, such that a substantially airtight chamber (5) is formed between the outer tube (3) and the inner tube (2). The device (1) also comprises connection means (4) located on the outside of the outer tube (3), configured for establishing a fluidic communication with the substantially airtight chamber (5) and for coupling a vacuum pump. The inner tube (2) is permeable to gas and configured for transporting a thermal fluid, and the outer tube (3) is made of metal.



21: 2024/02828. 22: 2024/04/11. 43: 2025/05/30
51: H04W
71: ZTE CORPORATION
72: SHA, XIUBIN, DAI, BO, LU, TING, NIU, LI, TAN, JIE
54: HANDOVER SCHEMES FOR USER AGGREGATION SCENARIO IN WIRELESS COMMUNICATIONS
00: -
A method of wireless communication is described. The method includes transmitting, by a first network node, a configuration message to a first communication device in communication with a second communication device to perform an aggregation operation, the configuration message including at least one of: first configuration information about a first radio link between the first network node and the first communication device, second configuration information about a second radio link between the first communication device and the second communication device; receiving, from the first communication device, a measurement report that includes at least one of first measurement information of the first radio link, or second measurement information of the second radio link; and determining, based on the measurement report, whether to perform a handover operation from the first network node to a second network node.



21: 2024/02829. 22: 2024/04/11. 43: 2025/05/30
51: G06V; G06T; G05D
71: SAFRAN ELECTRONICS & DEFENSE
72: CLEON, THOMAS, BUDIN, JOËL
33: FR 31: FR2110221 32: 2021-09-28
54: METHOD FOR DETECTING OBSTACLES
00: -
The invention relates to a method for detecting obstacles, comprising the steps of: - implementing a semantic segmentation algorithm to produce a first segmented image (Ie1) from a first raw left or right image; - rectifying the raw stereo images to obtain rectified stereo images (Isr), and the first segmented image to obtain a first rectified segmented image (Ier1); - producing a disparity map (Cd); - producing a second rectified segmented image; - producing a list of predefined instances of obstacles (Obst) present in the vehicle's environment from the rectified segmented stereo images; and - integrating the predefined instances of obstacles into intermediate images obtained from the rectified stereo images (Isr).

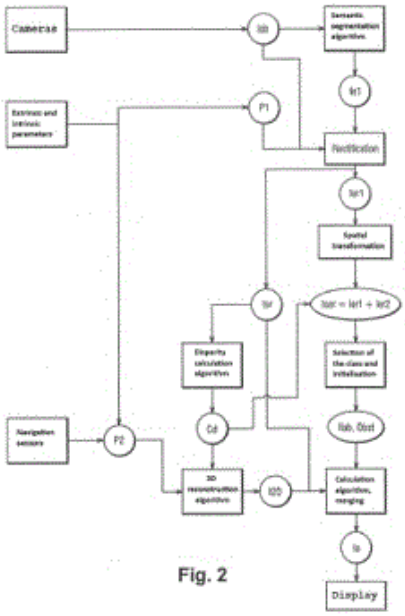


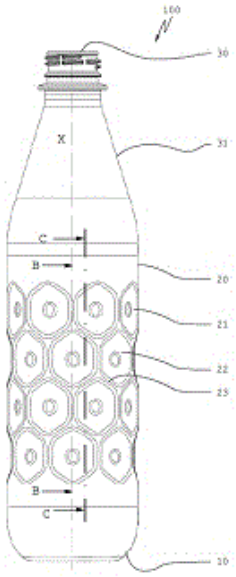
Fig. 2

21: 2024/02849. 22: 2024/04/12. 43: 2025/05/30
51: G06Q
71: PARACHUTE LOGISTICS, LLC
72: FISCHMANN, FERNANDO BENJAMIN
33: US 31: 63/116,439 32: 2020-11-20
33: US 31: 63/222,497 32: 2021-07-16
33: US 31: 63/074,842 32: 2020-09-04
54: LOW CAPITAL AND OPERATIONAL COST E-COMMERCE LOGISTICS SYSTEM
00: -

The invention relates to a low capital and operation cost logistics system, for multibox packages, sorting at the origin, and air-cargo loads that are air-dropped, allowing the delivery of merchandise in an extensive geographical area, reducing the need for building, operating, or using a large number of fulfillment centers located near consumers. The logistics system comprises: a Central Fulfillment Center (CFC); a computing system in communication with the CFC configured to receive fulfillment information pertaining to orders placed; a sorting system for selecting merchandise stored in the CFC, based on the fulfillment information, and preparing a multibox package containing selected merchandise; a multibox package containing merchandise from more than one order, where such merchandise is destined to a same predefined final destination zone, configured or prepared as part of air-cargo load, suitable for air-dropping by an aircraft; an air-cargo ejection system for selectively dropping air-cargo load from the aircraft; a drop zone configured to receive air-cargo load; a landing assisting system configured for providing a softer landing of the air-cargo load; a delivery system arranged to deliver the merchandise to destinations from the drop zone, wherein the merchandise can optionally go through an outbound sorting center before delivery; and wherein the logistics system is arranged and configured to sort and transport merchandise from its storage location to a final logistic point that is close to the consumer, and whereby the last mile delivery process may be undertaken by other systems.

21: 2024/02873. 22: 2024/04/12. 43: 2025/05/30
51: B65D; B08B
71: ALPLA WERKE ALWIN LEHNER GMBH & CO. KG
72: GOLDENSTEIN, DANIEL, THALER, NICOLAS
33: CH 31: 070412/2021 32: 2021-10-18
54: REUSABLE PLASTICS CONTAINER
00: -

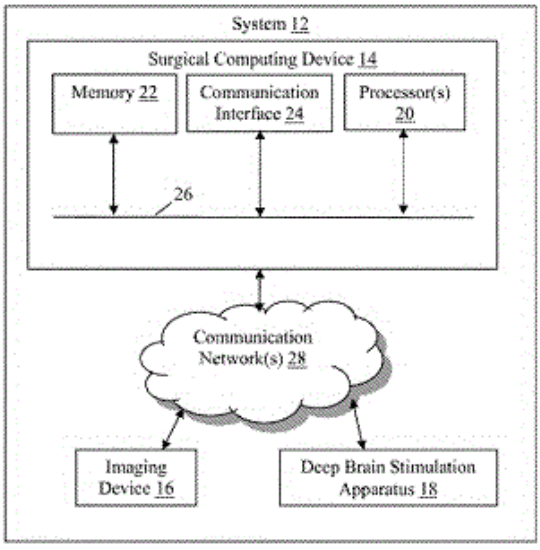
The invention relates to a reusable plastics container (100), comprising a container body (20), a container base (10) and a container opening (30) located opposite the container base. A repeating structure (21), in particular a honeycomb structure, formed by depressions (22) and ribs (23) surrounding the depressions (22) is disposed on the container body (20). Alternatively, grooves are disposed on the container body. At least 90% of the surfaces of the depressions (22) and of the ribs (23) and/or the grooves are visible from the container opening (30).



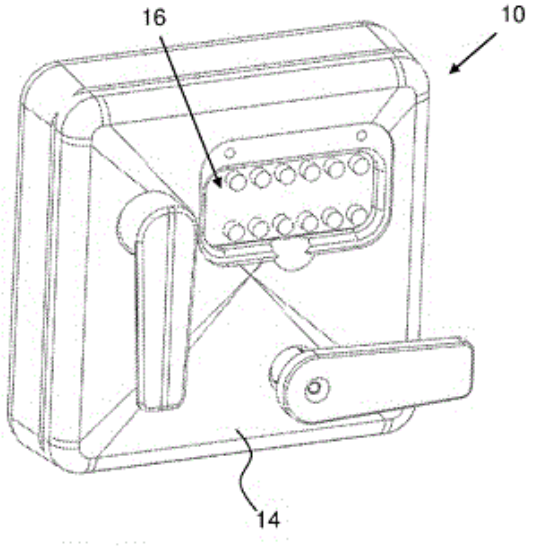
21: 2024/02874. 22: 2024/04/12. 43: 2025/05/30
51: A61K; C07K; C12N; A61P
71: EXELIOM BIOSCIENCES
72: SOKOL, HARRY, RUFFIÉ, PAULINE, HADIDA, BENJAMIN
33: EP 31: 21306448.8 32: 2021-10-15
54: ASSOCIATION OF A FAECALIBACTERIUM PRAUSNITZII STRAIN AND ANTI-PD-1, ANTI-PD-L1 OR ANTI-CTLA-4 ANTIBODIES FOR THE TREATMENT OF CANCER
00: -
The present invention relates to an association of a Faecalibacterium prausnitzii bacterial strain deposited to the CNCM under the accession number I-4573; and at least one immune checkpoint inhibitor, in particular at least one monoclonal antibody selected from the group consisting of anti-PD-1, anti-PD-L1 and anti-CTLA-4 monoclonal antibodies for its use for preventing and/or treating a cancer in a mammal patient. The association as such is also considered.

21: 2024/02876. 22: 2024/04/12. 43: 2025/05/30
51: A23K; A23L; A61K; A61P
71: MARS, INCORPORATED
72: JOLY, WILLY
33: EP 31: 21204186.7 32: 2021-10-22
54: NUCLEOTIDES AND OLIGOSACCHARIDES FOR USE AS FOOD COMPOSITION
00: -
The present invention relates to a food composition comprising, in % by weight of the food composition on dry matter basis, i) nucleotides in an amount of at least about 0.05% and ii) oligosaccharides in an amount of at least about 0.1%, wherein said oligosaccharides are selected from xylo-oligosaccharides (XOS), fructo-oligosaccharides (FOS), galacto-oligosaccharides (GOS), and combinations thereof.

21: 2024/02879. 22: 2024/04/12. 43: 2025/05/30
51: A61N
71: CORNELL UNIVERSITY, THE UNIVERSITY OF UTAH, THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY
72: JANSON, ANDREW, O'SULLIVAN, KYLE, SCHIFF, NICHOLAS, BAKER, JONATHAN, BUTSON, CHRISTOPHER, HENDERSON, JAIMIE, CHOI, EUN YOUNG, RUTT, BRIAN, RADOVAN, MATTHEW, SU, JASON
33: US 31: 63/244,589 32: 2021-09-15
54: METHODS FOR VECTOR-BASED TARGETING OF THE HUMAN CENTRAL THALAMUS TO GUIDE DEEP BRAIN STIMULATION AND DEVICES THEREFOR
00: -
Methods and devices for vector-based targeting of the human central thalamus (CT) to guide deep brain stimulation (DBS) are disclosed. In some examples, electrode(s) each with a plurality contacts are provided. A three-dimensional orientation of a dominant axis of a central lateral nucleus dorsal tegmental tract medial component (CL/DTTm) fiber bundle of a human subject is determined. The contacts of the electrode(s) are positioned in the subject's CT fibers in substantial alignment with the three-dimensional orientation. An electrical stimulus is applied to the contacts to selectively activate the CT fibers. The positioning and the applying are carried out to maximize activation of a central lateral nucleus and medial dorsal tegmental tract fiber pathway in the subject and to minimize activation of a centromedian-parafascicularis fiber pathway in the subject. Methods and devices for surgical planning involving for vector-based targeting of the human CT to guide DBS are also disclosed.



21: 2024/02893. 22: 2024/04/15. 43: 2025/05/30
51: E05B; E05C
71: AUTIDA AB
72: STENLUND, PETER
33: SE 31: 2050755-4 32: 2020-06-24
54: BLOCKING AND AUTOCLOSING ARRANGEMENT
00: -
The present invention relates to a blocking device to be used with a locking system of a closing structure for a compartment, the blocking device comprises an engagement member arranged movable between an non-engaging position out of contact with a locking system and an engaging position enabling operation of the locking system, a blocking arrangement operably connected to said engagement member wherein the blocking arrangement blocks movement of said engagement member in the non-engaging position, an activator operably connected to said blocking arrangement wherein operation of said activator enables an unblocking of said engagement member by said blocking arrangement.



21: 2024/02908. 22: 2024/04/15. 43: 2025/05/30
51: G06Q
71: AMERICAN INSTITUTE OF CERTIFIED PUBLIC ACCOUNTANTS
72: ZEIDMAN, HAROLD IRVING, MOONEY, TAMMY LYNN SUBER, BUSCH, KARL JOSEPH, PAWLICKI, AMY RENEE, YOUNG, JAMES MATTHEW, LARSEN, KAREN CHROSNIAK, WEBB, CHRISTOPHER TRAVIS, WOOD, JENNIFER JEAN, HERRMANN, GEORGE, ESTRELLA, JESSICA ELIZABETH, MORRISON, STEVEN EDWARD
33: US 31: 63/289,845 32: 2021-12-15
54: DATA-DRIVEN, RISK AND ACTIVITY-BASED DYNAMIC AUDIT APPLICATION AND METHOD
00: -
An embodiment of the present invention is directed to a Dynamic Audit Solution (DAS) that provides and enables a transformative audit methodology that uses data, embedded knowledge and advanced technologies to help inform auditor judgment through the selection of relevant procedures at the appropriate time. The Dynamic Audit Solution improves overall quality and value through a modernized audit approach that leverages technology, data and knowledge to create and support the execution of an effective and efficient methodology.

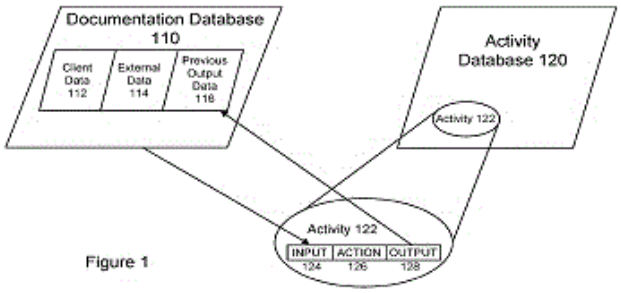


Figure 1

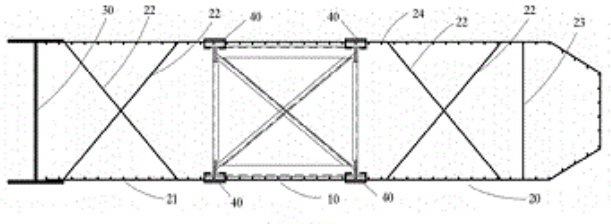
21: 2024/02910. 22: 2024/04/15. 43: 2025/05/30
51: A61K; A61Q
71: UNILEVER GLOBAL IP LIMITED
72: PAN, XIAOYUN, TANG, XUEZHI, WANG, JINFANG
33: CN 31: PCT/CN2021/130217 32: 2021-11-12
33: EP 31: 21217667.1 32: 2021-12-24
54: RINSE-OFF PERSONAL CARE COMPOSITION
00: -
Disclosed is a rinse-off personal care composition comprising: (a) a microcapsule comprising an intercalated layered particle having an interlayer distance of 1 to 10 nm and an active inside of the particle; and (b) an anionic surfactant, wherein the active is selected from natural essential oil, pro-fragrance, fragrance, mosquito repellence active, anti-dandruff active or a mixture thereof.

21: 2024/02936. 22: 2024/04/16. 43: 2025/06/25
51: B65D; B67D
71: Conro Precision (Pty) Ltd
72: Mark ROOS
54: LIQUID-DISPENSING TAP ARRANGEMENT
00: -
The invention discloses a liquid-dispensing tap arrangement with an automatic opening having tamper preventing means, which includes a body; an internal valve or membrane with elastic dome contained in the body; a driving element contained in and operatively coupled with the valve or membrane; a cap, which is stably constrained with the body forming a single component which cannot be divided, the cap being further operatively coupled with the driving element; a tamper-preventing ring element integrally formed with the cap; wherein the driving element is designed to be driven by the cap to allow opening and simultaneously breaking the tamper-preventing ring element from the cap; wherein the tamper-preventing ring element includes locking means adapted to lock the tamper-preventing ring element to the body once the tamper-preventing ring element is disconnected from the cap thereby preventing removal of the tamper-preventing ring element from the liquid dispensing tap arrangement.

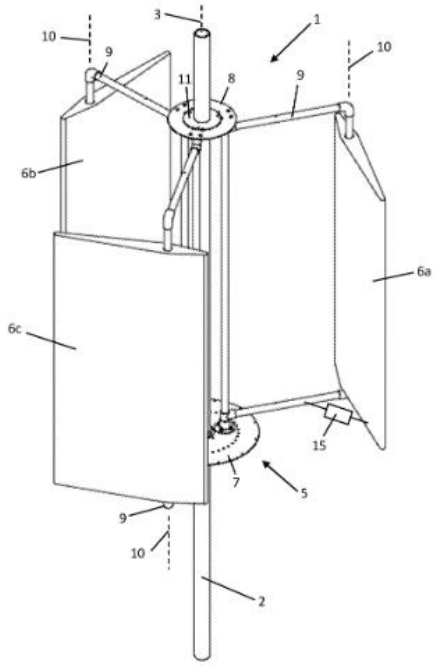
21: 2024/02965. 22: 2024/04/17. 43: 2025/05/26
51: A61K C12N A61P
71: MED PROGRESS, LLC
72: YOELIN, Steve
33: US 31: 63/248,447 32: 2021-09-25
54: REDUCING OR INHIBITING TISSUE DAMAGE USING HYALURONIDASE ADMINISTRATION
00: -
The present disclosure discloses compositions comprising a hyper-concentrated hyaluronidase, devices comprising such compositions, as well as methods and uses employing such compositions and devices to reduce or eliminate a hyaluronic acid-induced blockage of one or more blood vessels supplying blood to an area of tissue of an individual; methods and uses for employing such compositions and devices to reduce or inhibit a vascular occlusion in an area of tissue of an individual; and methods and uses for employing such compositions and devices to reduce or inhibit a hyaluronic acid-induced loss of tissue of an individual.

21: 2024/03115. 22: 2024/04/22. 43: 2025/05/19
51: E02D; E04G; B21F
71: NO.3 ENGINEERING CO., LTD. OF CCCC THIRD HARBOR ENGINEERING CO., LTD., CCCC THIRD HARBOR ENGINEERING CO., LTD.
72: GU, XIAOBIN, HAN, JUNGUO, LI, SHENGLIN, YU, ZHONGMING, WANG, LEI, ZHANG, LIJUN, LIU, PING, JIA, TAO
33: CN 31: 202210263536.7 32: 2022-03-17
54: SPACE TRUSS SUPPORT PLATFORM, SYSTEM AND METHOD FOR SUPER-DEEP SLURRY WALL
00: -
A space truss support platform, system and method for a super-deep slurry wall. The platform (10) comprises: a first truss section (11) and standard truss sections (12), the first truss section (11) being detachably connected to the standard truss sections (12), and the adjacent standard truss sections (12) being detachably connected to each other. The system comprises: the space truss support platform (10) and a reinforcement cage (20), the

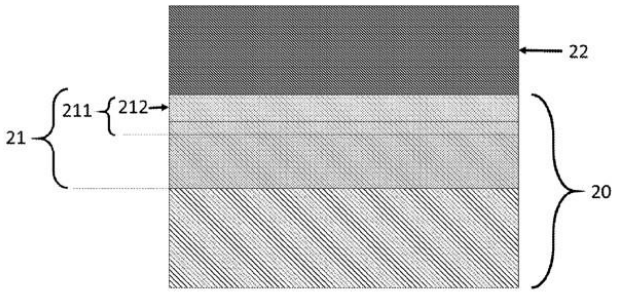
reinforcement cage (20) being connected to the space truss support platform (10). The method comprises: welding an end I-beam (30) and a bottom reinforcement mesh (21); mounting the bottom reinforcement mesh (21) in place; temporarily fixing the space truss support platform (10) to the bottom reinforcement mesh (21); mounting diagonal bars (22) on both sides of the space truss support platform (10), and mounting a longitudinal support truss (23); mounting a top reinforcement mesh (24); temporarily fixing the space truss support platform (10) to the top reinforcement mesh (24); lifting the space truss support platform (10) and lowering same to a construction station; and lifting and pulling out the space truss support platform (10). According to the method, a standardized working platform can be provided for machining and manufacturing of a slurry wall reinforcement cage, and a reliable guarantee can also be provided for the reliability in the process of manufacturing and lifting of a huge reinforcement cage.



21: 2024/03152. 22: 2024/04/23. 43: 2025/04/24
51: F03B; F03D
71: BLOWN B.V.
72: CARON, Eric Gerardus Maria, VAN OEVEREN, Maarten Cornelis
33: NL 31: 2029458 32: 2021-10-18
54: ROTOR FOR A VERTICAL AXIS TURBINE AND VERTICAL AXIS TURBINE
00: -
The invention relates to a rotor for a vertical axis turbine comprising: - a blade support structure extending from a center of the rotor, - a blade pivotally coupled to the blade support structure at a distance from the center of the rotor, and - a pitch regulating mechanism arranged between the blade support structure and the blade to regulate the pitch of the blade in dependence of fluid dynamic forces acting on the blade, wherein the pitch regulating mechanism comprises a damper system, wherein the damper system has a first damping coefficient in a first rotational direction of the blade relative to the blade support structure and a second damping coefficient in a second rotational direction of the blade relative to the blade support structure.

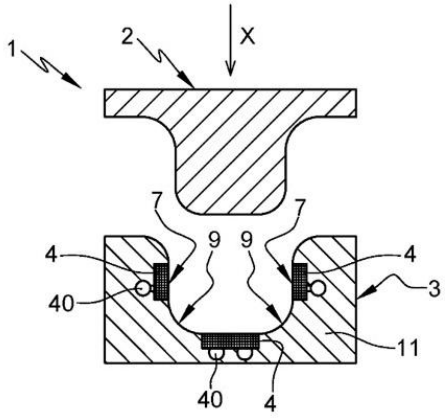


21: 2024/03322. 22: 2024/04/29. 43: 2025/06/25
51: C21D; C22C; C23C
71: ARCELORMITTAL
72: Astrid PERLADE, Kangying ZHU, Jean-Michel MATAIGNE, Jonas STAUDTE
33: IB 31: PCT/IB2021/060917 32: 2021-11-24
54: ZINC COATED MN-CONTAINING ADVANCED HIGH STRENGTH STEEL AND METHOD OF MANUFACTURING THE SAME
00: -
The present invention relates to a steel sheet containing manganese from 3.0 to 6.0 % in weight which has both a good coatability by liquid zinc and a good LME resistance. The present invention also aims to make available an easy to implement method to obtain said steel sheet and an assembly which does not have LME issues after spot-welding.

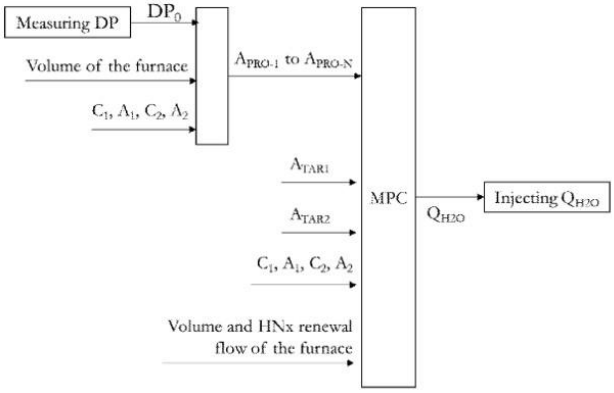


21: 2024/03323. 22: 2024/04/29. 43: 2025/07/07
51: B21D; B23B; C21D; C22C; C23C; C25D
71: ARCELORMITTAL
72: Deborah HERRY, Fabrice GERMAIN, Clément PHILIPPOT, Sandra LE GUILLARD
33: IB 31: PCT/IB2021/060246 32: 2021-11-05
54: METHOD FOR PRODUCING A STEEL SHEET HAVING EXCELLENT PROCESSABILITY BEFORE HOT FORMING, STEEL SHEET, PROCESS TO MANUFACTURE A HOT STAMPED PART AND HOT STAMPED PART
00: -
Steel sheet suitable for a multistep hot stamping process and associated manufacturing process, said steel sheet having a composition comprising, by weight percent: C : 0.13 - 0.4 %, Mn : 0.4 – 4.2 %, Si : 0.1 – 2.5%, Cr ≤ 2 %, Mo ≤ 0.65 %, Nb ≤ 0.1 %, Al ≤ 3.0 %, Ti ≤ 0.1 %, B ≤ 0.005 %, P ≤ 0.025 %, S ≤ 0.01 %, N ≤ 0.01%, Ni ≤ 2.0%, Ca ≤ 0.1 %, W ≤ 0.30%, V ≤ 0.1%,Cu ≤ 0.2%, wherein Q is less than 20, said factor Q being defined as (the elements are expressed in weight percent): Q = 114 – 68*C – 18*Mn + 20*Si - 56*Cr - 61*Ni – 37*Al + 39*Mo + 79*Nb - 17691*B, said steel sheet having a microstructure comprising, in surface fraction, from 60% to 100% of recrystallized ferrite, less than 40% of the sum of martensite, bainite and carbides and less than 5% of non-recrystallized ferrite.

21: 2024/03324. 22: 2024/04/29. 43: 2025/06/25
51: B21D
71: ARCELORMITTAL
72: Alexandre BLAISE, Christophe TALLON
33: IB 31: PCT/IB2021/060686 32: 2021-11-18
54: HOT STAMPING DIE AND HOT STAMPING PROCESS USING A HOT STAMPING PRESS
00: -
The invention relates to a hot stamping die (2,3) comprising a die body (11) having a work face (9) which is in contact with a blank during the hot stamping operation, and at least one porous die portion (4) having a corresponding porous work face portion (7), said porous die body portion being in contact with a reservoir (6, 40), said reservoir (6, 40) containing a cooling medium (8), and said porous die body portion comprising a plurality of ejection channels (5) extending from said reservoir (6, 40) to said porous work face portion, wherein said ejection channels (5) are configured to eject said cooling medium (8) from the reservoir (6, 40) towards said porous work face portion (7) when the pressure on the cooling medium is increased above a threshold ejection pressure, and wherein said die (2,3) does not comprise any discharge channels to evacuate excess ejected coolant from the dies after hot stamping.

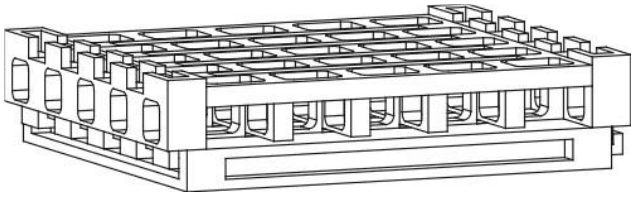


21: 2024/03406. 22: 2024/05/02. 43: 2025/06/25
51: C21D; F27B; F27D
71: ARCELORMITTAL
72: Ahmed KHELASSI, Walter DAL'MAZ SILVA, Morvan PLUNIAN
33: IB 31: PCT/IB2021/061686 32: 2021-12-14
54: ATMOSPHERE FURNACE CONTROL
00: -
The invention relates to a method for regulating an atmosphere A inside a furnace, wherein a steel strip having a composition and an exposed surface area A1 is heat treated from a time T0 to a time TS1END and a steel strip, having a composition and an exposed surface area is heat treated from a time TS2START to a time TN, comprising the following steps: a data acquisition step, an optimisation step and an injection of H2O.

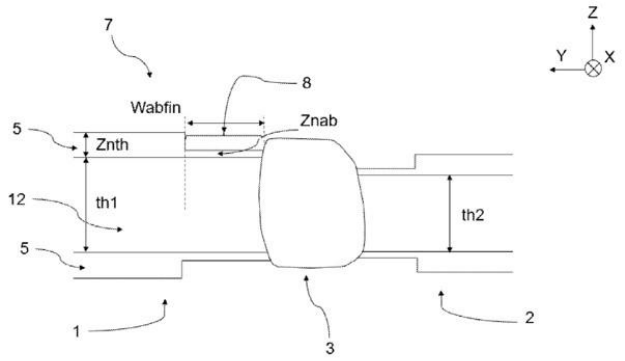


21: 2024/03407. 22: 2024/05/02. 43: 2025/06/25
51: C21D
71: ARCELORMITTAL
72: Akshay BANSAL, Benjamin BOISSIERE, Gérard GRIFFAY
33: IB 31: PCT/IB2021/061689 32: 2021-12-14
54: HEATING METHOD OF A METALLIC PRODUCT
00: -
The invention relates to a method for heating a semi-finished steel product, comprising : a pre-heating step, performed in a pre-heating device comprising a chamber containing solid particles, a heat exchanger, a support able to support said semi-finished steel product, a gas injector, and a heating step, performed in a furnace, wherein, said pre-heating step comprises the steps of : i. injecting a gas into said first chamber so as to form a first fluidized bed, ii. heating said fluidized bed by means of said heat exchanger, iii. putting said semi-finished steel product, into said fluidized bed and onto said support such said fluidized bed is able to transfer heat to said semi-finished steel product, iv. taking out said semi-finished steel product when its temperature is from 200°C to 1000°C, and said heating step comprises the step heating said semi-finished product to a temperature from 1100 to 1400°C.

21: 2024/04166. 22: 2024/05/28. 43: 2024/12/18
51: A63H
71: WEZIWE MFANAFUTHI DUMA
72: WEZIWE MFANAFUTHI DUMA
54: A MAZE
00: -
The invention provides an expandable maze having a base, a roof and intersecting quadrilateral inserts therebetween to define passages. At least one of the base and the roof has connection means to connect to more intersecting quadrilateral inserts and more bases and roofs for expansion of the maze.



21: 2024/04281. 22: 2024/05/31. 43: 2025/06/25
51: B23K
71: ARCELORMITTAL
72: Ivan VIAUX, Sadok GAIED, Jean-François CANOURGUES, Sylvie ROUSSILLON
33: IB 31: PCT/IB2021/061826 32: 2021-12-16
54: METHOD FOR BUTT-WELDING A STEEL PART AND ASSOCIATED STEEL PART
00: -
Method for butt-welding two steel sheets comprising the steps of: -Providing two steel sheets (1, 2), -On all the faces having a zinc based metallic coating thickness Znth above 3.5 microns and a steel sheet substrate (12) with a Carbon content above 0.15% or a Silicon content above 0.5% or both: removing at least part of said metallic coating to form an ablation area before welding (6) having a Zinc-based metallic coating thickness after ablation Znab which is equal to or lower than 3.5 microns and in such a way that the width of the ablation area after welding (8) is equal to or greater than 0.5mm, -butt welding said steel sheets (1, 2) using at least a laser source.

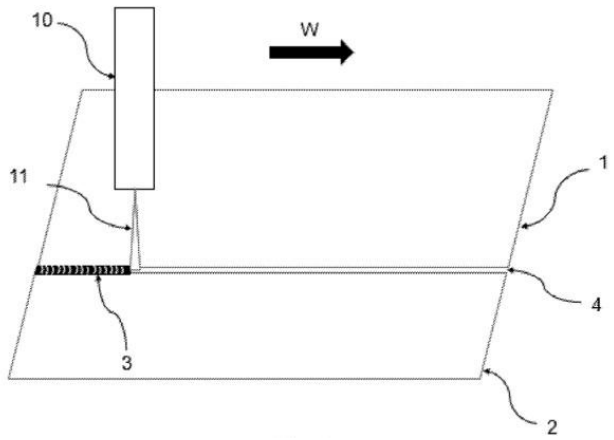


21: 2024/04284. 22: 2024/05/31. 43: 2025/06/25
51: B23K
71: ARCELORMITTAL
72: Jean-François CANOURGUES, Sadok GAIED
33: IB 31: PCT/IB2021/061816 32: 2021-12-16

54: METHOD FOR BUTT-WELDING A STEEL PART AND ASSOCIATED STEEL PART

00: -

Method for butt-welding two steel sheets comprising the steps of: - providing two steel sheets having a composition such that the gamma factor of the unamended targeted weld seam composition is strictly higher than 0.39, - butt to butt laser welding them with additional material incorporated in the weld such that the gamma factor of the amended targeted weld seam composition is equal to or lower than 0.39, Wherein Gamma = C + Si/30 + Mn/20 + 4.8*P + 4*S - Al/20.



21: 2024/04439. 22: 2024/06/05. 43: 2025/06/25
51: C21D; C22C; G16C
71: ARCELORMITTAL
72: Thomas DIEUDONNE
33: IB 31: PCT/IB2021/061906 32: 2021-12-17

54: METHOD FOR MANUFACTURING AN ANNEALED STEEL SHEET

00: -

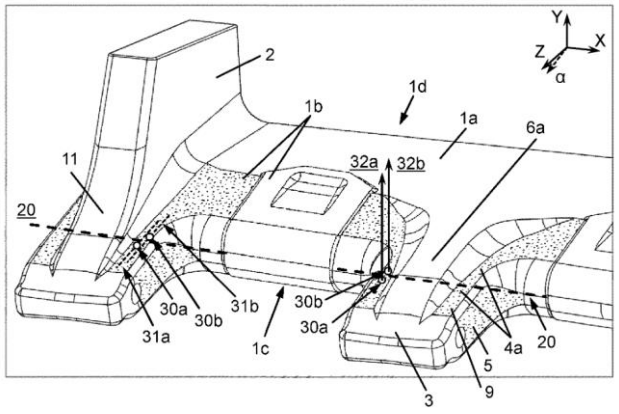
The present invention relates to a method for manufacturing a heat-treated steel sheet, submitted to an annealing process following a temperature curve T as a function of time t in a furnace having atmosphere comprising hydrogen, in which the hydrogen content targeted in the steel sheet at the end of a step of the annealing process is defined.

21: 2024/05030. 22: 2024/06/26. 43: 2025/06/27
51: B22C; B22D; E02F
71: METALOGENIA RESEARCH & TECHNOLOGIES S.L.
72: AMAT HOLGADO, Carlos, PEREZ SORIA, Francisco
33: EP 31: 21383213.2 32: 2021-12-23

54: LIP FOR EARTH MOVING MACHINE SHOVEL AND LIP MANUFACTURING METHOD

00: -

A lip for an earth moving machine shovel, comprising: a main body (1a,1b), and a plurality of noses (3) protruding from the main body (1a,1b); the at least one transmission surface (4a, 4b) between each nose (3) and the main body (1b) has a 5slope variation of between 0° and 10°, each transmission surface (4a, 4b) comprising at least a portion of a stabilization surface (9a, 9b) of the respective nose (3) and a portion of a surface of the main body (1b). Also, a method for manufacturing a lip including: introducing molten steel into a lip mold through one or more openings in the mold, the mold including a plurality of risers; cooling or 0waiting for the molten steel introduced into the mold until it solidifies; and removing the plurality of risers from the lip manufactured with the mold.



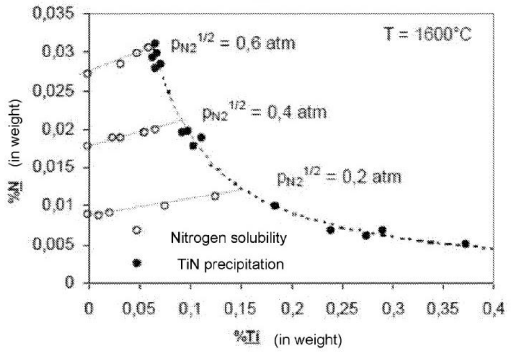
21: 2024/05046. 22: 2024/06/27. 43: 2025/07/07
51: B22F; C22C; B33Y
71: ARCELORMITTAL
72: Frédéric BONNET, Valérie DAESCHLER, Luis Miguel SANZ MORAL, Rosalía REMENTERIA FERNANDEZ, Laura DEL RIO FERNANDEZ
33: IB 31: PCT/IB2022/050815 32: 2022-01-31

54: FERROUS ALLOY POWDER FOR ADDITIVE MANUFACTURING

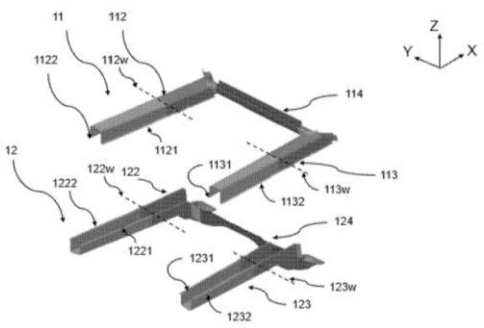
00: -

The invention relates to a ferrous alloy powder for additive manufacturing, obtained by atomization with a gas made of at least 95% in volume of nitrogen, said alloy comprising carbon up to 0.5wt.%, titanium up to 11.0 wt.%, boron up towt.%, manganese up to 30 wt.%, aluminium up to wt.%, silicon up to 1.5 wt.%, vanadium up to 0.5 wt.%, copper up to 2 wt.%, niobium up to 2 wt.%, the remainder being iron and

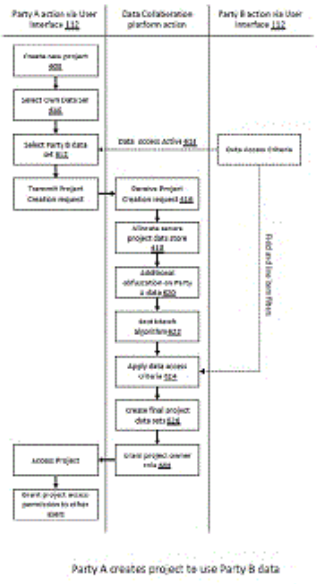
residual elements, said powder comprising endogenous nitrides and/or carbonitrides of at least one element chosen among a group consisting of titanium, aluminium, boron, vanadium, silicon, and niobium, the nitrogen content of such ferrous alloy powder being above the solubility limit of nitrogen in such alloy, at the atomization temperature. The invention also relates to the manufacturing method of such powder.



21: 2024/05092. 22: 2024/06/28. 43: 2025/07/07
51: B62D
71: ARCELORMITTAL
72: Gagan TANDON, Nimish DESHPANDE, Nachiket GOKHALE
33: IB 31: PCT/IB2022/050720 32: 2022-01-27
54: FRONT STRUCTURE FOR AN AUTOMOTIVE VEHICLE
00: -
Front member assembly (1) for an automotive vehicle comprising an upper shell (11) and a lower shell (12), wherein said upper and lower shells (11, 12) each comprise a right, left and transverse portion and wherein said upper and lower shells are assembled together by attaching them at least along upper and lower contours (1121, 1122, 1221, 1222, 1131, 1132, 1231, 1232) of said right and left portions.



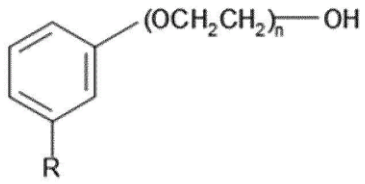
21: 2024/05525. 22: 2024/07/16. 43: 2025/06/11
51: G06Q; G06F
71: OMNISIENT (RF) (PTY) LTD
72: DE BEER, PAUL JOHANNES
33: GB 31: 2315353.9 32: 2023-10-06
54: A SYSTEM AND METHOD FOR PRESERVING DATA OBFUSCATION DURING COLLABORATION USING PRIOR OBFUSCATED DATA
00: -
A computer implemented system and method for securely processing data sets and identifying patterns and data correlations between data sets to provide insights from unconventional combined datasets.



21: 2024/05530. 22: 2024/07/16. 43: 2025/07/02
51: A61K
71: RENATA PHARMACEUTICAL (IRELAND) LIMITED
72: KABIR, Syed S. Kaiser, KABIR, Syed Omar, GAT, Ganesh Vinayak, BOORUGU, Rambabu, RAHMAN. A.H.M. Masbahur
33: US 31: 63/266,947 32: 2022-01-20
54: SUSTAINED RELEASE PHARMACEUTICAL COMPOSITION OF UPADACITINIB
00: -
Disclosed herein is a sustained release pharmaceutical composition of upadacitinib and process for preparing the same, wherein said pharmaceutical composition comprising therapeutically effective amount of upadacitinib and pharmaceutically acceptable adjuvants, and wherein the composition is free of polymer.

21: 2024/05537. 22: 2024/07/16. 43: 2025/05/13
51: C10L
71: TotalEnergies OneTech
72: MONDKAR, Hemant Sunanda, EYDOUX, Franck Georges, REDDY, Vishnu Vardhan, SHIRKE, Vrushali Vijay, KAPOOR, Rohil, D'SOUZA, Roark, EDAPPADY, Niranjan
33: EP(FR) 31: 22151838.4 32: 2022-01-17
54: LPG FUEL COMPOSITIONS, ADDITIVES THEREFOR AND USES THEREOF
00: -

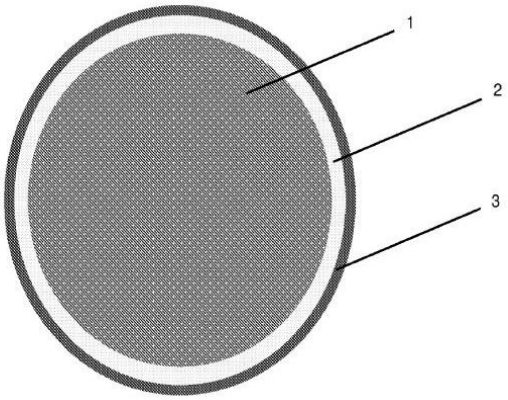
The present invention relates to a hydrocarbon fuel composition comprising liquefied petroleum gas and an additive selected from the compounds having the following formula (Ia) and mixtures thereof, wherein R represents a linear or branched saturated or unsaturated hydrocarbon chain comprising from 8 to 24 carbon atoms, which may be substituted with one or more substituents chosen from hydroxy groups, hydroxyalkyl groups of formula -O-R' wherein R' denotes a C_1 to C_4 alkyl radical, amino groups of formula - NR_1R_2 wherein R_1 and R_2 independently one from another denote a hydrogen atom or a C_1 to C_4 alkyl radical, and n represents a number ranging from 1 to 10. The invention further concerns and additive composition comprising compounds of formula (Ia) and phenolic antioxidant agent(s), as well as oxyfuel processes and methods of operating motor vehicles and gas burners involving such fuel compositions.



(Ia)

21: 2024/05874. 22: 2024/07/30. 43: 2025/07/04
51: A23P
71: HANZE FOOD B.V.
72: ALBERTS-RENSSEN, Thomas
33: NL 31: 2030910 32: 2022-02-11
54: BONDING COMPOSITION FOR BINDING AN ALGINATE COATING TO A VEGETARIAN OR VEGAN FOODSTUFF
00: -

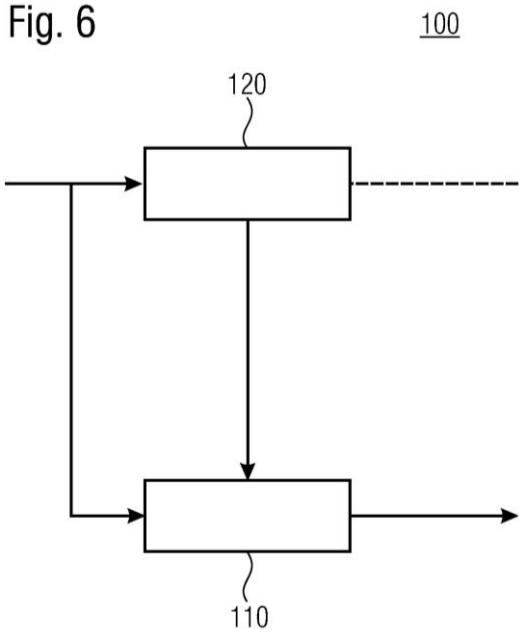
The invention relates to a bonding composition for binding an alginate casing or coating to a vegetarian or vegan foodstuff. The composition comprises, on a dry matter basis; 0.5045 wt.% of one or more hydrocolloid gelling agents, including at least alginate; 1.035 wt.% of one or more water binding agents; and one or more proteins selected from the group of plant protein, fungal protein, milk protein and egg protein. The bonding composition comprises 0.2580 wt.% of alginate. It has the function of providing adhesion between the coating and the foodstuff. In this capacity, it is present as an intermediate adhesive layer that is positioned in between the foodstuff and the coating. There is a first bond between the intermediate adhesive layer and the foodstuff, relying on coagulated protein; and there is a second bond between the intermediate adhesive layer and the coating, relying on the gelling of alginate. In this way, the coating is strongly connected to the foodstuff; no bursting or delamination takes place during heating. The foodstuff is in particular a vegan or vegetarian sausage.



21: 2024/05952. 22: 2024/08/01. 43: 2025/05/13
51: G10L
71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
72: WECKBECKER, Dominik, TAMARAPU, Archit, FUCHS, Guillaume, MULTRUS, Markus, DÖHLA, Stefan, SAGNOWSKI, Kacper, BAYER, Stefan
33: EP 31: PCT/EP2022/052642 32: 2022-02-03
54: APPARATUS AND METHOD TO TRANSFORM AN AUDIO STREAM
00: -

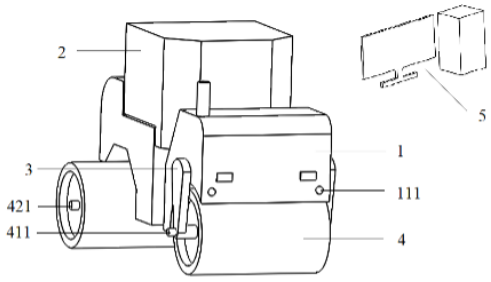
Apparatus (100) for transforming an audio stream with more than one channel into another representation comprising: means for deriving (120) one or more parameters describing an acoustic or psychoacoustic model of the audio stream, said one or more parameters comprising information on a direction of arrival, wherein the means for deriving (120) are configured to calculate prediction coefficients using the information on a direction of arrival, means for transforming (110) the audio stream in a signal-adaptive way using the prediction coefficients; and wherein the means for transforming (110e) are configured to perform a downmixing of the audio stream on the encoder (200) side; and wherein the means for transforming (110d) are configured to perform upmix generation of the audio stream on the decoder (300) side.

Fig. 6

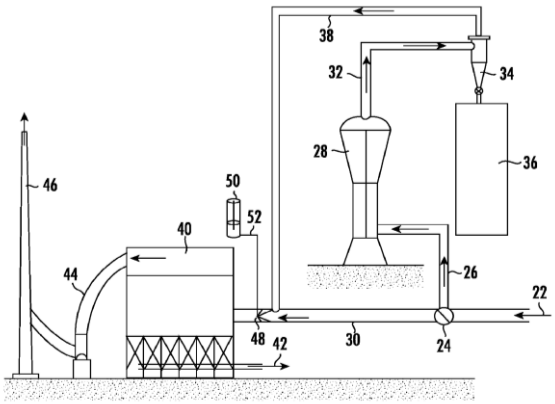


21: 2024/06009. 22: 2024/08/05. 43: 2025/07/14
51: E01C
71: CHINA RAILWAY NO. 3 ENGINEERING GROUP CO., LTD., THE FIFTH ENGINEERING CO., LTD. OF CHINA RAILWAY NO. 3 ENGINEERING GROUP CO., LTD.
72: FU, Chongyang, WU, Yongzhen, WANG, Ping, WANG, Jin, FENG, Li, CAI, Zhibo, WEI, Wenyuan, SHEN, Ligang, LI, Yingjie, ZHANG, Zefeng, FU, Jing
33: CN 31: 2024101580510 32: 2024-02-04
54: INTELLIGENT COMPACTION EQUIPMENT FOR TRANSITION SECTION CONSTRUCTION HAVING AN EDGE COMPACTION FUNCTION
00: -

Disclosed in the present invention is intelligent compaction equipment for transition section construction having an edge compaction function, relating to the field of road surface construction equipment. The intelligent compaction equipment includes a vehicle frame, wherein a cab is mounted on the vehicle frame, and two compaction rollers are connected below the vehicle frame via shock absorption brackets; and one end of at least one of the compaction rollers is located outside the vehicle frame. In the present invention, the compaction rollers located outside the vehicle frame implement edge compaction on a structure at a transition section, thereby effectively solving the problem that conventional small-sized compaction equipment cannot realize edge compaction.



21: 2024/06494. 22: 2024/08/23. 43: 2025/06/12
51: B01D
71: MERCURY CAPTURE INTELLECTUAL PROPERTY, LLC
72: DIVERS, Norman, GAGE, John
33: US 31: 63/302,415 32: 2022-01-24
54: APPARATUS AND METHOD FOR EXHAUST GAS POLLUTION REDUCTION
00: -
A method for reducing pollution in exhaust gases and a system for treating exhaust gas are provided. The method includes the step of treating an exhaust gas stream with a treating fluid. In one application, the treating fluid is injected by spraying droplets into the exhaust gas stream. A system for treating exhaust gas includes a reagent, and a nozzle to spray the reagent into the exhaust gas stream.



21: 2024/06805. 22: 2024/09/04. 43: 2025/06/09
51: A61K; A61P
71: CUREVAC SE
72: RAUCH, Susanne, GROSSE, Hans Wolfgang, PETSCH, Benjamin
33: US 31: 63/112,106 32: 2020-11-10
33: US 31: 63/113,159 32: 2020-11-12
33: US 31: 63/119,390 32: 2020-11-30
33: US 31: 63/129,395 32: 2020-12-22
33: EP 31: PCT/EP2020/052775 32: 2020-02-04
33: EP 31: PCT/EP2020/059687 32: 2020-04-03
33: EP 31: PCT/EP2020/065091 32: 2020-05-29
33: EP 31: PCT/EP2020/079831 32: 2020-10-22
33: EP 31: PCT/EP2020/079973 32: 2020-10-23
33: EP 31: PCT/EP2020/080713 32: 2020-11-02

54: CORONAVIRUS VACCINE

00: -

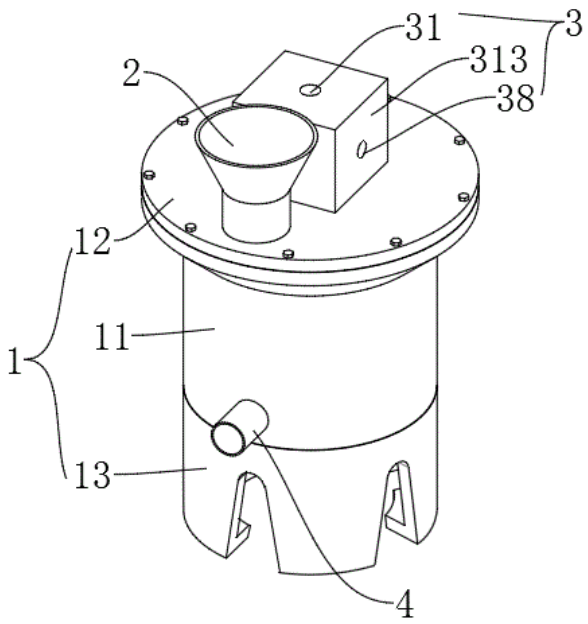
The present invention is directed to a nucleic acid suitable for use in treatment or prophylaxis of an infection with a coronavirus, preferably with a Coronavirus SARS-CoV-2, or a disorder related to such an infection, preferably COVID-19. The present invention is also directed to compositions, polypeptides, and vaccines. The compositions and vaccines preferably comprise at least one of said nucleic acid sequences, preferably nucleic acid sequences in association a lipid nanoparticle (LNP). The invention is also directed to first and second medical uses of the nucleic acid, the composition, the polypeptide, the combination, the vaccine, and the kit, and to methods of treating or preventing a coronavirus infection, preferably a Coronavirus infection.

21: 2024/07059. 22: 2024/09/13. 43: 2025/05/06
51: B02C
71: Hebei Chemical & Pharmaceutical College
72: Lin WANG

54: HERB PULVERIZING DEVICE FOR TRADITIONAL CHINESE MEDICINE

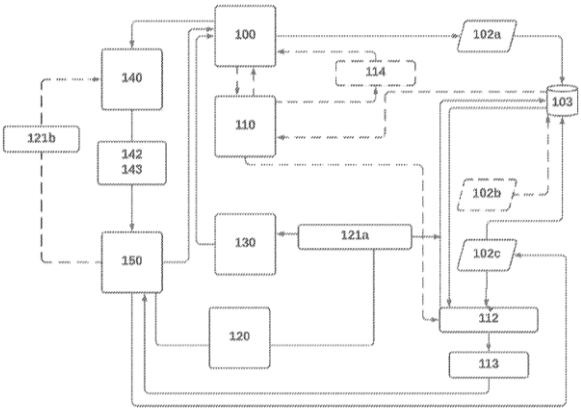
00: -

The disclosure relates to the technical field of herb crushing, and specifically discloses a herb pulverizing device for traditional Chinese medicine, including a support mechanism for providing a pulverizing cavity, wherein the support mechanism includes a pulverizing box, a box cover is provided at an upper end of the pulverizing box, a feeding hopper is provided on the box cover, a discharge pipe is provided on an outer wall against the lower part of the pulverizing box, the support mechanism is provided with a pulverizing mechanism for staggeredly crushing the herbs added to the pulverizing box, the pulverizing mechanism includes a pulverizing component, a power component is connected to an end of the pulverizing component, the pulverizing component includes a center shaft vertical provided in the pulverizing box, a chassis is fixed to the center shaft, a hollow shaft is sleeved at an outer diameter of the center shaft on an upper side of the chassis, a top plate is fixed at a lower end of the hollow shaft, a pulverizing knife is provided at intervals on the opposite side of the chassis and the top plate, an upper end of the hollow shaft penetrates through the pulverizing box, the power component includes a reversing component fixed in upper ends of the hollow shaft and the center shaft, a power source is connected to the other end of the center shaft, a ring net is provided outside of the top plate and the chassis, and a drop plate is provided on an inner wall of the pulverizing box on a lower side of the chassis.



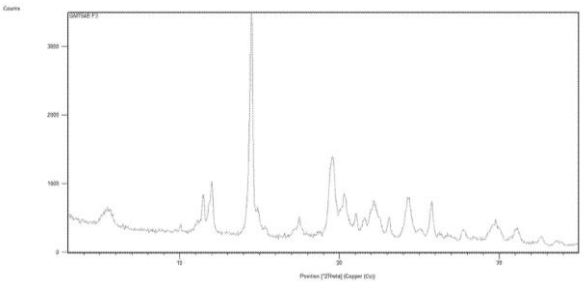
21: 2024/07116. 22: 2024/09/17. 43: 2025/06/25
51: A01K; G06Q
71: RHINO FORCE SA NPC
72: Dr. Christiaan LABUSCHAGNE, Candice Megan JOOSTE, Mischa Francesca FRASER
54: IMPROVED MARKER SET FOR IDENTIFYING LIVE AND DEAD ANIMALS
00: -
The present invention relates to a method, which can be applied to identify an animal from a biological sample, to conduct a parentage analysis and/or to determine a poten-tial breeding partner for an animal, wherein the respective animal is of a species selected from the group consisting of Diceros bicornis and Ceratotherium simum.

21: 2024/07248. 22: 2024/09/23. 43: 2025/04/08
51: G16H
71: GARCÍA SADA, Fernando
72: GARCÍA SADA, Fernando, FLORES LÓPEZ, Santos Eduardo, ELIZONDO, Sergio de Jesús, GARCÍA ALANIS, Eduardo, DYCHTER CHOLOW, Bernardo, PACHECO ESPINO, Iván, PULIDO WATTS, Alejandro
33: US 31: 17/679,927 32: 2022-02-24
54: MEASUREMENT, DIAGNOSIS, TREATMENT AND MANAGEMENT OF METABOLIC SYNDROME
00: -
The present invention refers to a method for the measurement, diagnosis, treatment and management of metabolic syndrome comprising the administration of a drug for the treatment of metabolic syndrome and a system for monitoring a drug product to a patient in need thereof, to prevent or reduce the risk of metabolic syndrome and related disorders, by using electronic devices, characterized in that it comprises: collect and store patient identity information and/or body metrics information in a database, for the incorporation of a medical record; link the patient a health care professional for a medical record consultation and registration; provide a pharmaceutical composition with a useful drug product for the prevention, reduction or control of metabolic syndrome and/or related disorders, supplies or support devices; connect using an interactive user interface one or more devices for measuring clinical parameters and/or anthropometric indicators; measure, record and store in a database the collected clinical parameters and/ or anthropometric indicators; monitor the patient clinical parameter and/ or anthropometric indicator data by a healthcare professional; and adjust or maintain indications for treatment.

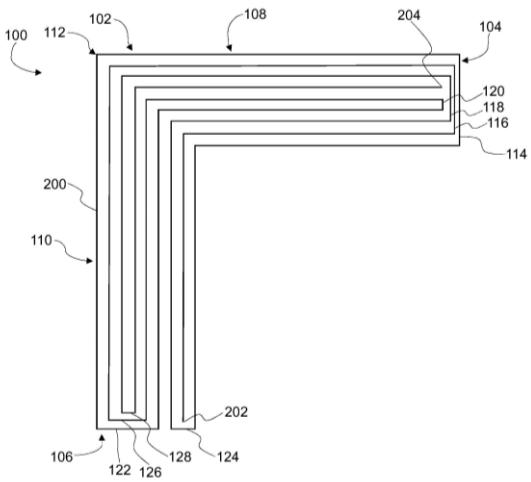


21: 2024/07520. 22: 2024/10/03. 43: 2025/05/20
51: C07D
71: Compass Pathfinder Limited
72: LONDESBROUGH, Derek John, BROWN, Christopher, NORTHEN, Julian Scott, MOORE, Gillian, PATIL, Hemant, NICHOLS, David
33: GB 31: 1716505.1 32: 2017-10-09
54: PREPARATION OF PSILOCYBIN, DIFFERENT POLYMORPHIC FORMS, INTERMEDIATES, FORMULATIONS AND THEIR USE
00: -
This invention relates to the large-scale production of psilocybin for use in medicine. More particularly, it relates to a method of obtaining high purity

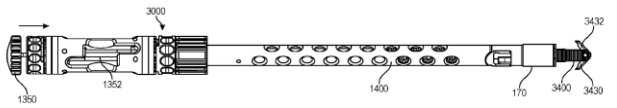
crystalline psilocybin, particularly, in the form of Polymorph A. It further relates to a method for the manufacture of psilocybin and intermediates in the production thereof and formulations containing psilocybin.



21: 2024/07530. 22: 2024/10/03. 43: 2025/05/06
51: B31F; B65D
71: D'ANGLADE, Pierre-Michel
72: D'ANGLADE, Pierre-Michel
33: US 31: 63/365,220 32: 2022-05-24
54: PAPERBOARD PROTECTIVE CORNER AND METHOD FOR MANUFACTURING THE SAME
00: -
A paperboard protective corner and a method for manufacturing a paperboard protective corner, the paperboard protective corner comprising: a corner body made of a single paperboard sheet comprising first and second side edges, the single paperboard sheet being folded onto itself to form the paperboard protective corner, the single paperboard sheet including a plurality of folds, both the first and second side edges being received in a corresponding fold so as to be unexposed to an exterior of the paperboard protective corner.

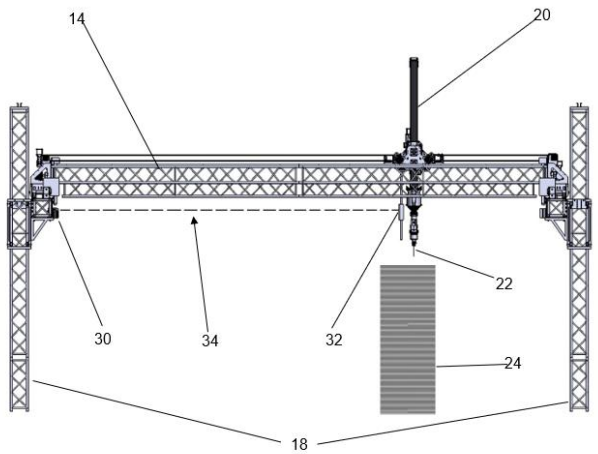


21: 2024/07595. 22: 2024/10/07. 43: 2025/05/07
51: A61B; A61F
71: Spinal Simplicity, LLC
72: ROGERS, Adam, SNELL, Douglas, BARNDS, Annaria, FROCK, Adam, LEE, Jeffrey David, SLOVER, Jeff
33: US 31: 17/716,822 32: 2022-04-08
54: INTERSPINOUS IMPLANT INSERTION INSTRUMENT WITH WING ACTUATION TOOL
00: -
An insertion instrument for inserting an implant includes an elongated main body having a proximal handle and a distal portion that selectively couples to the implant. A wing actuation tool is slidably engaged in a central passage of the elongated main body to fix the implant to the elongated main body. The wing actuation tool temporarily attaches to the implant allowing for deployment and retraction of wings of the implant during surgery. Longitudinal translation of the wing actuation tool deploys an actuation plunger of the implant.

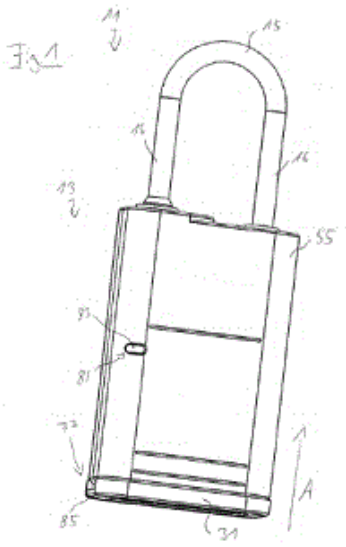


21: 2024/07613. 22: 2024/10/08. 43: 2025/05/07
51: B28B; B33Y
71: PAN MIXERS SOUTH AFRICA (PROPRIETARY) LIMITED, QUINTIN BOOYSEN
72: BOOYSEN, Quintin
33: ZA 31: 2023/06922 32: 2023-07-10
54: APPARATUS AND METHOD FOR ACCURATE LARGE SCALE ADDITIVE MANUFACTURING
00: -
The invention provides a real time positioning system for a large scale additive manufacturing machine, the machine comprising a frame of at least one horizontal beam, supported on at least one vertical beam, and a travelling cart, movable along the horizontal beam, with a vertically adjustable printer head, for depositing a layer of additive material on each pass along the horizontal beam. The real time positioning system comprises a self-levelling laser transmitter, positioned at a point of minimal deflection on the frame, or on a free-standing tower; a laser receiver, located on the travelling cart and configured to detect a laser beam transmitted from the laser transmitter; and a processor unit, for comparing the level at which the laser beam is detected by the receiver, against a

desired printing level, and vertically adjusting the height of the printer head, to compensate for deflection and/or misalignment of any of the beams.

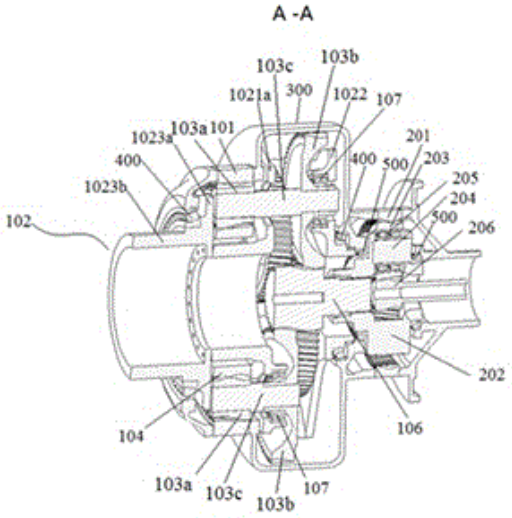


21: 2024/07649. 22: 2024/10/09. 43: 2025/05/08
51: E05B
71: ABUS AUGUST BREMICKER SÖHNE KG
72: WEIERSHAUSEN, BERND
33: DE 31: 102023129106.8 32: 2023-10-23
54: PORTABLE HOOP LOCK
00: -
A portable hoop lock comprises a lock body, a lock hoop and an electromechanical locking mechanism that is configured to selectively lock the lock hoop. An energy source of the locking mechanism is arranged in a housing that has a replacement opening through which the energy source can be introduced and removed. The hoop lock comprises a cover that can be plugged onto the housing to close the replacement opening, wherein the housing or the cover has at least one elastically deformable sealing section that forms a peripheral elevated portion at a side wall of the housing or the cover and that can be compressed between the cover and the housing and/or elastically deformed by the plugging on of the cover.

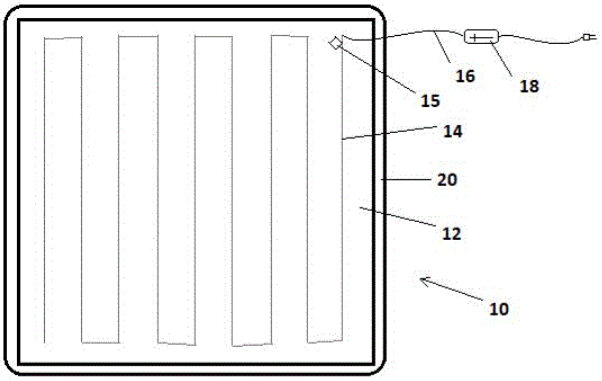


21: 2024/07775. 22: 2024/10/14. 43: 2025/05/07
51: F16H; F03D
71: GOLDWIND SCIENCE & TECHNOLOGY CO., LTD.
72: AI, XIAOLAN, GAO, SI, XU, HONGLEI, YANG, YULIANG
33: CN 31: 202210253345.2 32: 2022-03-15
54: GEAR SPEED CHANGE DEVICE, TRANSMISSION MECHANISM, AND WIND GENERATING SET
00: -
A gear speed change device. The gear speed change device comprises a first planetary gear train (100). The first planetary gear train (100) comprises a first ring gear (101), a first planetary carrier (102), first planetary gears (103), a solar idle gear (104), and a planetary idle gear (105). The planetary idle gear (105) and the first planetary gears (103) are all mounted on the first planetary carrier (102); each first planetary gear (103) comprises a pinion (103a) and a large gear (103b) coaxially connected to the pinion (103a); the planetary idle gear (105) and the pinion (103a) are both engaged with the inside of the first ring gear (101) and are both engaged with the outside of the solar idle gear (104); the pinion (103a) can float along the radial direction thereof relative to the first planetary carrier (102), and the maximum radial floating amount of the pinion (103a) is greater than the maximum radial floating amount of the planetary idle gear (105); and the large gears (103b) of at least two first planetary gears (103) are arranged in a staggered manner in the axial direction, and projections thereof on a plane

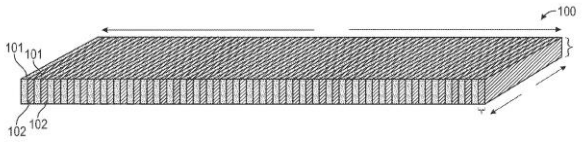
perpendicular to the axial direction overlap with each other. The gear speed change device has a relatively high torque load density, and can give consideration to a small volume, a large transmission speed ratio and a high torque load capability.



21: 2024/07829. 22: 2024/10/16. 43: 2025/05/02
51: H05B
71: BOUCKAERT, Karel
72: BOUCKAERT, Karel
54: A PERSONAL HEATING DEVICE
00: -
The invention provides a personal heating device for providing heat to a person. personal heating device includes a sheet of fabric material dimensioned to cover a person's lap area, an electrical heating wire woven into the fabric material, electrical connection connected to the heating wire and connectable to an electrical socket or electrical power supply, thermostat and an electrical power level controller; which heating device can, in use, provide heating in close proximity or contact with a person in a seated position.



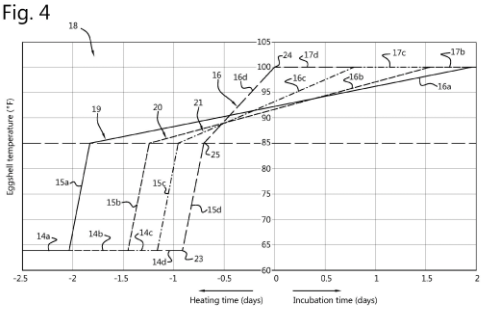
21: 2024/07847. 22: 2024/10/16. 43: 2025/05/07
51: A47C
71: Ziwi LLC
72: PEARCE, Tony M.
33: US 31: 63/342,223 32: 2022-05-16
54: FOAM CUSHIONS HAVING AN ORTHOGONAL ALTERNATING STRUCTURE
00: -
Foam cushions having an orthogonal alternating structure and cushioning articles formed of or containing such foam cushions are provided. The orthogonal alternating structure can be formed by assembling layers of foam and bonding all of or part of the interface where the layers are formed from at least two types or stiffnesses of foam. The layered arrangement of foam can be cut, if necessary, to create a foam cushion where the layers extend along a length or width of the foam cushion, or orthogonal to the direction of the force that the foam cushion is intended to support. Foam cushion components having bases and layers that emanate from the bases could be used to form the foam cushion.



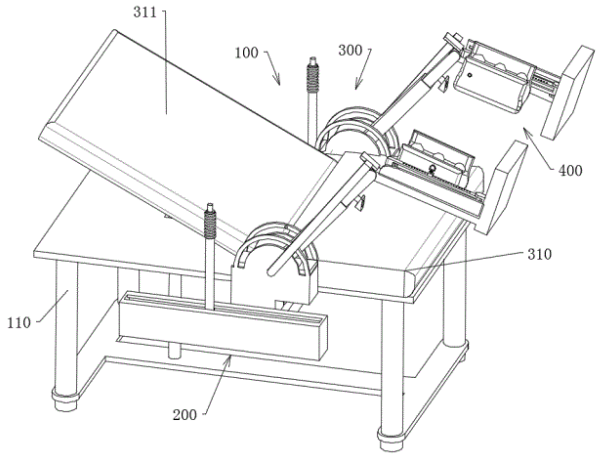
21: 2024/07889. 22: 2024/10/17. 43: 2025/05/06
51: A01K
71: HatchTech Group B.V.
72: METER, Tjitze
33: NL 31: 2031679 32: 2022-04-22
54: METHOD FOR INCUBATING A POULTRY EGG ON A HATCHERY
00: -
The current invention relates to Method for incubating a poultry egg on a hatchery, the hatchery

comprising: - an egg storage section configured for storing eggs, - an incubating device separate from the egg storage section and configured for incubating eggs during an incubation period at an incubation temperature, the method comprising the steps of; - receiving in the storage section a number of eggs at a time of arrival, - storing a number of eggs in the egg storage section for a heating period in storage of at least 1 days, and - transporting the number of eggs from the storage section into the incubating device, - incubating the number of eggs in the incubating device during the incubation period until hatching occurs, characterized in that the method comprises; - determining a temperature course over time to which the number of eggs should be exposed based on the time of arrival and desired moment of hatching, wherein the temperature course over time at least comprises a temperature increase during the heating period in storage in the storage section from an initial temperature to a set temperature between a physiological zero and the incubation temperature, heating the number of eggs during the heating period in storage from the initial temperature to the set temperature.

Fig. 4

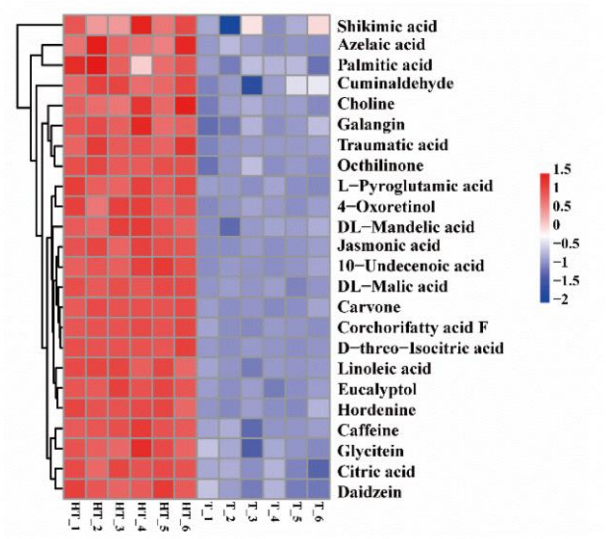


21: 2024/08019. 22: 2024/10/23. 43: 2025/05/30
51: A61G
71: THE THIRD AFFILIATED HOSPITAL, GUANGZHOU MEDICAL UNIVERSITY (GUANGZHOU MEDICAL CENTER FOR CRITICAL PREGNANT WOMEN, GUANGZHOU ROUJI HOSPITAL)
72: Suyu ZHANG, Xueling ZHANG, Chunna LI, Muqun XU, Haiying LIANG
54: MULTIFUNCTIONAL OBSTETRIC BED
00: -
The present disclosure relates to a multifunctional obstetric bed. The multifunctional obstetric bed, comprising: an obstetric bed mechanism, the obstetric bed mechanism comprises a bed frame; the bed frame comprises: a grip adjusting mechanism, the grip adjusting mechanism is fixed to a bottom wall of a table at a center of the bed frame; a body position adjusting mechanism, the body position adjusting mechanism is fixed on a table top of the bed frame; and a shank supporting mechanism, a number of the shank supporting mechanism is two, and the two shank supporting mechanisms are respectively fixed to two sides of the body position adjusting mechanism, In the present disclosure, the body position adjusting mechanism not only allows for the flattening of the upper body of the parturient but also simultaneously enables the bending of the legs, effectively enhancing the efficiency of emergency care.



21: 2024/08064. 22: 2024/10/25. 43: 2025/05/06
51: A01N
71: Guizhou Tobacco Company Zunyi City Company
72: Xiaobin Han, Mingxia Wen, Xiaoyan Wang, Jing Liu, Jun Wan, Chengxing Zhang, Yulong Peng, Jianyu Gou, Donglin Zhao, Kangwen Xu, Yiting Fu, Konghua Xie, Qianxiang Zhu
33: CN 31: CN202411111494.0 32: 2024-08-14
54: APPLICATION AND IDENTIFICATION METHOD OF 2-OCTYL-3-ISOTHIAZOLINONE IN PREVENTING AND CONTROLLING TOBACCO FUNGAL DISEASES
00: -
The invention discloses an application and an identification method of 2-octyl-3-isothiazolinone in preventing and controlling tobacco fungal diseases, in particular to the application of 2-octyl-3-isothiazolinone as an antibacterial substance and the application of 2-octyl-3-isothiazolinone in

preventing and controlling tobacco black shank disease and brown spot disease. The present invention identifies a novel antibacterial substance 2 octyl-3-isothiazolinone from the metabolites of co-culture of bacillus subtilis and trichoderma aculeatus. The 2-octyl-3-isothiazolinone is used in a tobacco pot test. The test shows that the 2-octyl-3-isothiazolinone has excellent disease prevention effects on tobacco black shank and brown spot diseases. The effects of root irrigation treatment with 100 micro-g/mL and 200 micro-g/mL 2-octyl-3-isothiazolinone dilutions on preventing and controlling tobacco black shank disease are 92.38% and 100%, respectively; the effects of 100 micro-g/mL and 200 micro-g/mL 2-octyl-3-isothiazolinone when spraying tobacco leaves on preventing and controlling brown spot disease are 80.80% and 84.33%, respectively.

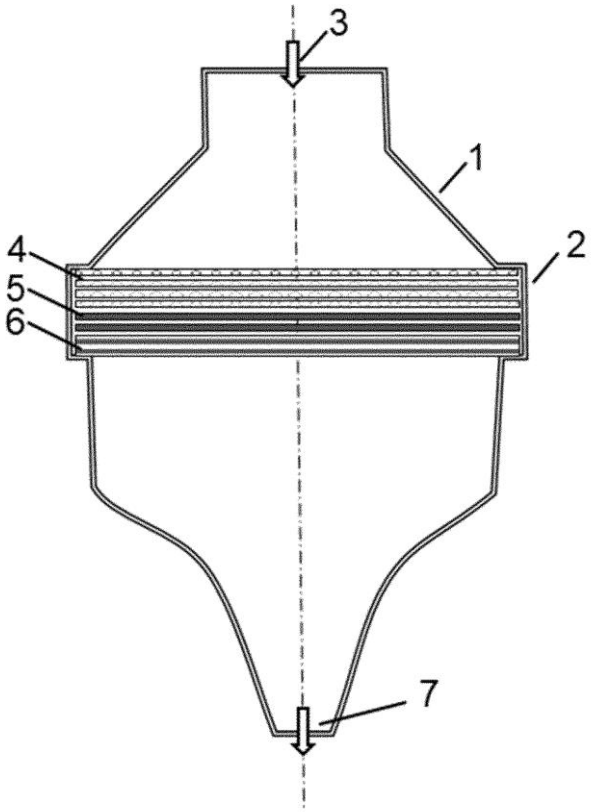


21: 2024/08069. 22: 2024/10/25. 43: 2025/04/30
51: B01J; C01B
71: HERAEUS PRECIOUS METALS GMBH & CO. KG
72: HESSE, Jens, HIRSCHEL, Pascal, MAIER, Dirk, JANTSCH, Uwe
33: EP 31: 22175273.6 32: 2022-05-25

54: CATALYST SYSTEM FOR A FLOW REACTOR, AND METHOD FOR THE CATALYTIC OXIDATION OF AMMONIA

00: -

The invention relates to a catalyst system for flow reactors, said catalyst system being characterized by the order of the noble metal-containing alloys used in the catalyst gauze which forms the catalyst system. By using a ternary platinum alloy for a second catalyst gauze group and a palladium alloy for a third catalyst gauze group, the platinum and rhodium content of the catalyst system can be kept relatively low overall while having a high degree of efficiency. The invention additionally relates to a method for catalytically combusting ammonia, in which a fresh gas which contains at least ammonia is conducted through a catalyst system.



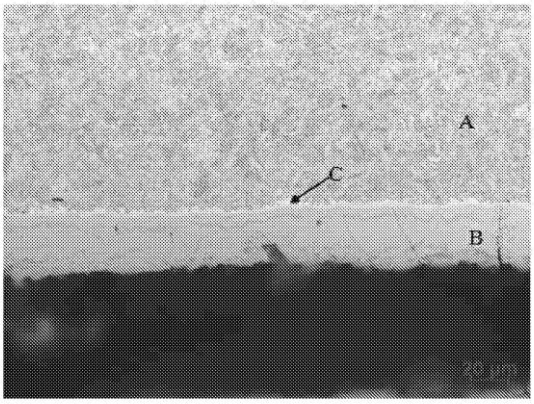
21: 2024/08081. 22: 2024/10/25. 43: 2025/04/30
51: C23C
71: Baoshan Iron & Steel Co., Ltd.
72: TAN, Ning, LIU, Hao, JIN, Xinyan, MA, Xuedan
33: CN 31: 202210311710.0 32: 2022-03-28

54: HOT-STAMPED COMPONENT HAVING HIGH COLD-BENDING PERFORMANCE AND HIGH STRENGTH, AND MANUFACTURING METHOD THEREFOR

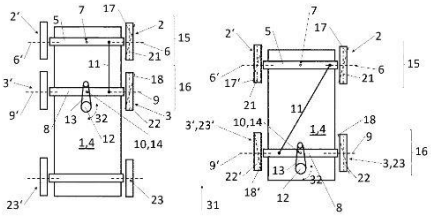
00: -

Disclosed in the present invention are a hot-stamped component having high cold-bending performance and high strength, and a manufacturing method therefor. The method comprises: (1) manufacturing a steel plate for hot stamping; (2) preprocessing a

component; (3) heat treatment, transfer and stamping of the component: placing a semi-finished product of the component into a heat treatment furnace, controlling a heat treatment temperature to be 750°C-960°C, and controlling the total time of heat treatment to be 1.5-10 min and the time for the heat treatment temperature above 880°C not to be less than 1.2 min; transferring the heat-treated semi-finished product into a mold for mold-closed stamping, and the temperature of the semi-finished product when leaving the heat treatment furnace not being lower than 900°C; when the thickness of the steel plate forming the component is less than or equal to 1.5 mm, controlling transfer time to be 11 s-20 s, and when the thickness of the steel plate forming the component is greater than 1.5 mm, controlling the transfer time to be 13 s-25 s; and (4) stamping posttreatment: performing thermal insulation homogenization on the component, then performing machining to obtain a finished product. Accordingly, a component having a product of strength and elongation of =10 GPa•%, a cold-bending angle of =60 degrees, and a three-point bending maximum load of =13 KN can be prepared by using the method.

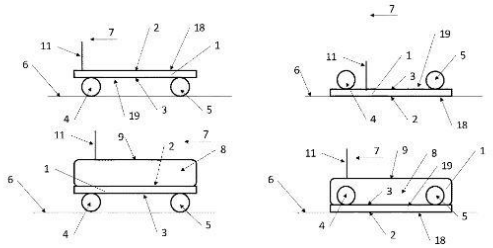


21: 2024/08084. 22: 2024/10/25. 43: 2025/04/30
51: A63C; B62D; B62K
71: SCOOT & RIDE HOLDING GMBH
72: KIRCHSCHLAGER, Robert
33: AT 31: A 50320/2022 32: 2022-05-06
54: CHILDREN'S VEHICLE WITH ROTARY STEERING AND WEIGHT-SHIFT STEERING
00: -
A children's vehicle comprising a chassis (1) and at least two adjustable wheels (2, 3, 2', 3'), wherein at least one wheel (2, 3, 2', 3') is connected to the chassis (1) via a weight-shift steering mechanism (15) and, upon actuation of the weight-shift steering mechanism (15), can be adjusted in a curve direction (17), wherein the wheels (2, 3, 2', 3') are mounted on at least one wheel-suspension element (5, 8, 5', 8') such that they can be rotated about a respective wheel axle (6, 7, 6', 7'), which wheel-suspension element (5, 8, 5', 8') is mounted on the chassis (1) such that it can be rotated about at least one wheel-suspension axis of rotation (7, 14, 7', 14'), which wheel-suspension axis of rotation (7, 14, 7', 14') is inclined by a degree of inclination in relation to the vertical, and the at least one wheel (2, 3, 2', 3') can be adjusted in the curve direction (17, 18) by means of a rotary steering mechanism (16), wherein a handlebar (12) is coupled to the wheel-suspension element (5, 8, 5', 8') via a coupling system (13).

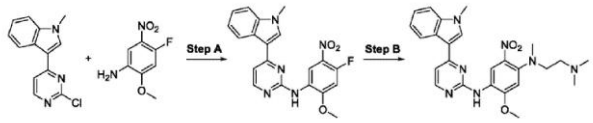


21: 2024/08085. 22: 2024/10/25. 43: 2025/04/30
51: A63C; B62B
71: SCOOT & RIDE HOLDING GMBH
72: KIRCHSCHLAGER, Robert, BERNDORFER, Wolfgang
33: AT 31: A50341/2022 32: 2022-05-12
54: MULTI-FUNCTIONAL CHILDREN'S VEHICLE
00: -
The invention relates to a travel device for children comprising a panel (1) with a first side (2) and a second side (3), wherein the first side (2) has at least one first sliding surface with first sliding characteristics for sliding the surface on the ground (6), and the second side (3) has at least one single wheel (4, 5) for moving the travel device on the ground (6) in a movement direction (7), wherein the first side (2) has a first seating/standing surface (18) and/or the second side (3) has a second seating/standing surface (19), the first side (2) and/or the second side (3) has a first receiving device or a second receiving device for detachably arranging a seat/holding element (8), with said seat/holding element being produced from a solid material or from an expandable or inflatable element,

wherein the receiving device is designed for arranging the seat/holding element (8) in a horizontal position or in a vertical position relative to the panel.



21: 2024/08113. 22: 2024/10/28. 43: 2025/04/30
51: A61K; A61P; C07D
71: AstraZeneca AB
72: MULLEN, Alexander Kieron, POZZOLI, Alessandro
33: US 31: 63/362,622 32: 2022-04-07
54: IMPROVED PROCESS FOR THE MANUFACTURE OF OSIMERTINIB
00: -
This specification relates an improved process for the manufacture of osimertinib.



21: 2024/08120. 22: 2024/10/28. 43: 2025/05/06
51: C21D; C22C
71: Baoshan Iron & Steel Co., Ltd.
72: ZHU, Xiaodong, XUE, Peng, LI , Wei
33: CN 31: 202210473701.1 32: 2022-04-29
54: ULTRAHIGH-STRENGTH COLD-ROLLED STEEL STRIP HAVING TENSILE STRENGTH OF 1450 MPA OR ABOVE AND MANUFACTURING METHOD THEREFOR
00: -
Disclosed in the present invention is an ultrahigh-strength cold-rolled steel strip having a tensile strength of 1450 MPa or above, comprising Fe and inevitable impurity elements, and further comprising the following chemical elements in percentage by mass: 0.19-0.245% of C, 0.03-0.45% of Si, 0.8-1.2% of Mn, 0.001-0.004% of B, 0.05-0.15% of Cu, 0.05-0.15% of Zr, 0.005-0.05% of Ti, and 0.01-0.08% of Al. The microstructure of said ultrahigh-strength cold-rolled steel strip comprises a matrix and carbide particles uniformly dispersed in the matrix, wherein the matrix has tempered martensite the volume fraction of which is 95% or above, and the average diameter of the carbide particles does not exceed 0.5 microns. In addition, further disclosed in the present invention is a manufacturing method for said ultrahigh-strength cold-rolled steel strip, comprising the following steps of: (1) smelting and casting, (2) hot rolling, (3) cold rolling after acid pickling, (4) continuous annealing, (5) tempering, and (6) leveling.

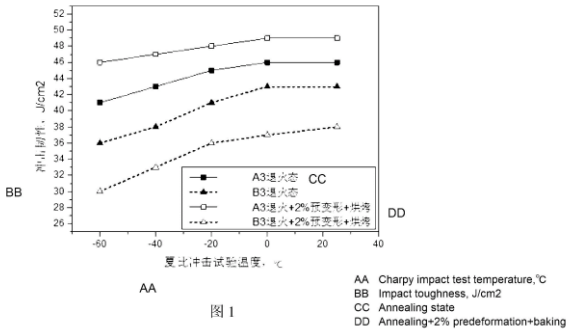


图 1

21: 2024/08169. 22: 2024/10/29. 43: 2025/05/06
51: A63B
71: Reform RX Limited
72: OWENS, Austin
33: GB 31: 2204910.0 32: 2022-04-04
54: EXERCISE MACHINE WITH MOVABLE BELT OR CHAIN
00: -
A pilates reformer machine comprising a frame having at least one longitudinal rail (102) extending between a first support member and a second support member (106), a carriage (108) supporting a platform moveable along the at least one rail and at least one movable belt or chain (105) attached to the carriage, movement of the at least one belt or chain being controlled by a motor (109) to apply resistance to movement of the carriage along the at least one longitudinal rail.

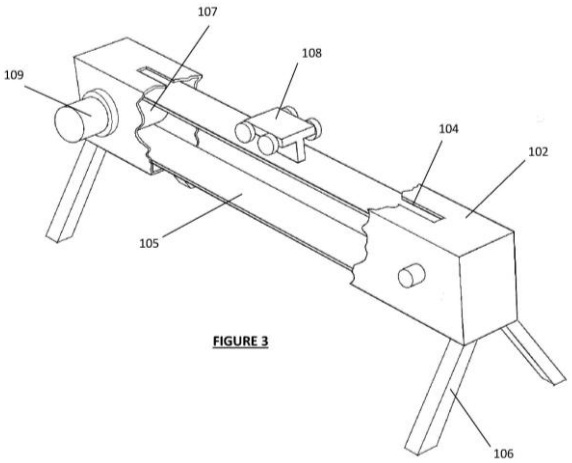


FIGURE 3

21: 2024/08188. 22: 2024/10/30. 43: 2025/05/02
51: A61K
71: HASSEN, Mohammed Ameen
72: HASSEN, Rafeek
54: ACNE MARK AND SCAR CREAM
00: -
A topical formulation for treating skin marks and/or scars comprises resorcinol and hydrocortisone acetate is provided. The resorcinol is present at a concentration of from about 1% to about 3% by weight based on the weight of the formulation. The hydrocortisone acetate is present at a concentration of from about 0.1% to about 1% by weight based on the weight of the formulation.

21: 2024/08189. 22: 2024/10/30. 43: 2025/05/02
51: A61K
71: HASSEN, Mohammed Ameen
72: HASSEN, Rafeek
54: BLEMISH NIGHT CREAM
00: -
A topical formulation comprising hydroquinone and hydrocortisone acetate is provided.

21: 2024/08192. 22: 2024/10/30. 43: 2025/05/02
51: B23B; B25F; F16L
71: GOVENDER, Preevin
72: GOVENDER, Preevin
33: ZA 31: 2023/10082 32: 2023-10-30
54: A DRILL ASSEMBLY, A METHOD OF INSTALLING A VALVE, AND A VALVE INSTALLATION KIT
00: -
This invention relates to a drill assembly, a method of installing a valve using the drill assembly, and a valve installation kit comprising the drill assembly, particularly, for ball valves, or similar valves which have bores which permit flow of a fluid therethrough when open. The drill assembly disclosed herein comprises an outer sleeve and elongate drill shaft which extends between a drilling end and a driving end which is engageable by a suitable drill, wherein the drill shaft is located within the outer sleeve and is displaceable relative thereto in a piston-like fashion. An attachment arrangement is located adjacent the proximal end of the outer sleeve for attaching the outer sleeve to a valve in a sealing fashion, in use. A hole saw bit is provided adjacent the drilling end of the drill shaft and one or more seals are provided between the drill shaft and the outer sleeve.

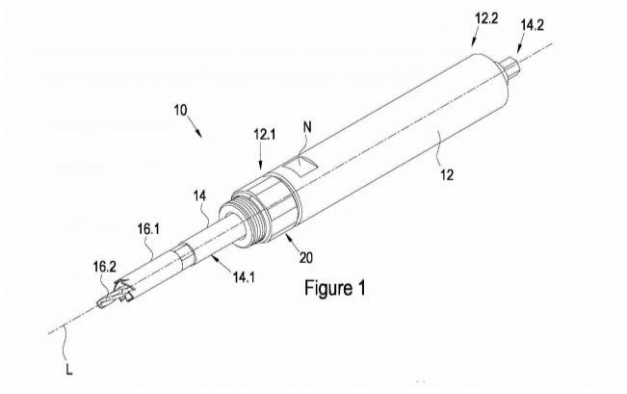
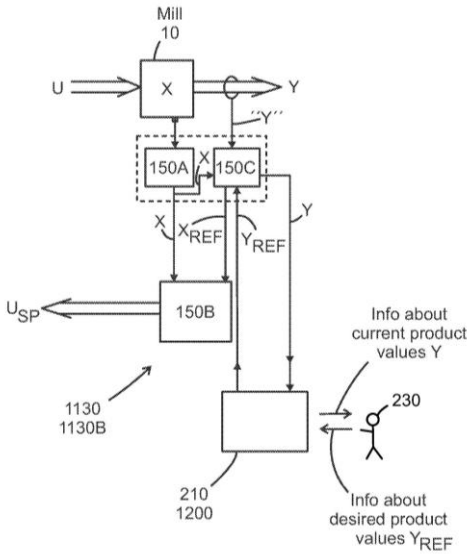
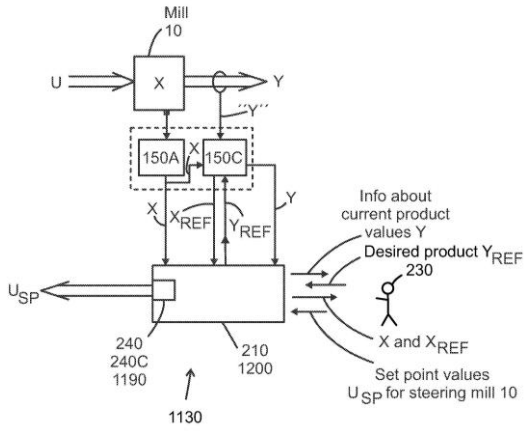


Figure 1

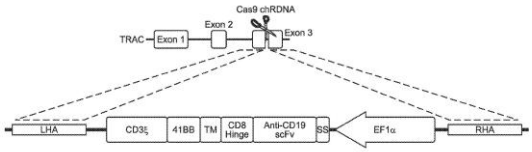
21: 2024/08216. 22: 2024/10/30. 43: 2025/05/06
51: B02C; G01H
71: S.P.M. Instrument AB
72: SUNDSTRÖM, Tim
33: PCT/SE 31: 2022/050362 32: 2022-04-11
54: SYSTEM AND METHOD FOR OPERATING A COMMINUTION PROCESS IN A TUMBLING MILL
00: -
A method of operating a tumbling mill, the method comprising: monitoring a toe position of a first portion of material inside the mill, said toe position determined responsive to signals measured from a vibration sensor; determining a measure of a discharge property corresponding to a second portion of material discharged from the mill; receiving an input corresponding to a desired discharge property of discharge material; and determining an operation parameter of the mill based on the determined toe position, and the received desired discharge property, and a predetermined correlation between toe position and discharge property.



21: 2024/08217. 22: 2024/10/30. 43: 2025/05/06
51: B02C; G01H
71: S.P.M. Instrument AB
72: SUNDSTRÖM, Tim
33: PCT/SE 31: 2022/050363 32: 2022-04-11
54: SYSTEM AND METHOD FOR OPERATING A COMMINUTION PROCESS IN A TUMBLING MILL
00: -
A method of operating a tumbling mill, the method comprising: monitoring a toe position of a first portion of material inside the mill, said toe position determined responsive to signals measured from a vibration sensor; determining a measure of a discharge property corresponding to a second portion of material discharged from the mill; receiving an input corresponding to a desired discharge property of discharge material; and determining an operation parameter of the mill based on the determined toe position, and the received desired discharge property, and a predetermined correlation between toe position and discharge property.



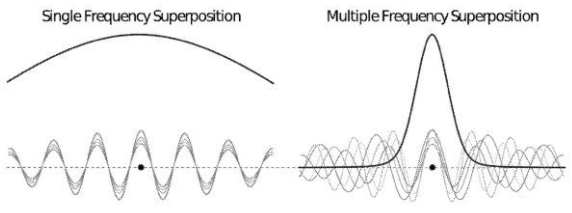
21: 2024/08221. 22: 2024/10/30. 43: 2025/05/06
51: A61K; C12N
71: Caribou Biosciences, Inc.
72: KANNER, Steven B., KWONG, George
33: US 31: 63/349,286 32: 2022-06-06
54: TREATMENT OF AUTOIMMUNE DISEASES WITH ENGINEERED IMMUNE CELLS
00: -
The invention comprises methods and compositions for treating autoimmune diseases with engineered immune cells including cytotoxic T cells and natural killer (NK) cells. The engineered immune cells comprise a chimeric antigen receptor (CAR). Methods of making the engineered cells, methods of administration and treatment regimens are also disclosed.



21: 2024/08262. 22: 2024/10/31. 43: 2025/05/02
51: A61K; A61P; C07K; C12N
71: Biotheus Inc.
72: LUO, Yi, MIAO, Xiaoniu, YAN, Yao, WANG, Chao, XU, Yingda, WANG, Ping, ZHANG, Jie, ZHAO, Jiaoyang
33: CN 31: 202210345737.1 32: 2022-04-02
33: CN 31: 202210343364.4 32: 2022-04-02
54: MONOCLONAL ANTIBODIES AND BISPECIFIC ANTIBODY AGAINST C-MET
00: -
The present application relates to an antibody capable of specifically binding to c-Met or an antigen-binding fragment thereof, and an

immunoconjugate, a pharmaceutical composition and a multispecific molecule comprising same. The present application further relates to the uses of the antibody specifically binding to c-Met or an antigen-binding fragment thereof and the multispecific molecule. Compared with the control antibody, the bispecific antibody or the defucosylated bispecific antibody of the present application can block HGF-dependent TKI resistance, block the proliferation and migration of tumor cells induced by HGF, induce the ADCC effect, and inhibit tumor growth in vivo.

21: 2024/08265. 22: 2024/10/31. 43: 2025/05/06
51: A61B; G01S
71: University of Utah Research Foundation
72: KUBANEK, Jan
33: US 31: 63/334,277 32: 2022-04-25
54: SYSTEM AND METHOD FOR SHARPENING THE FOCAL VOLUME OF THERAPEUTIC AND IMAGING SYSTEMS
00: -
A method and system that substantially sharpens the depth of focus. The method includes selecting a group of frequencies where the group of frequencies include a plurality of unique frequencies, assigning one of the frequencies in the group of frequencies to two or more of a plurality of transducers, driving the plurality of transducers to generate a plurality of beamlets where each beamlet includes a wave, and emitting the plurality of beamlets toward the target thereby generating an ultrasound field with reduced focal volume. The improvement in the focal volume using this method can comprise a factor of 10 or more, depending on the frequency bandwidth available to the system. The method, which can be applied for diagnostic and therapeutic applications, is entirely non-invasive and does not require labeling or a modification of elements or objects within the target space.



21: 2024/08266. 22: 2024/10/31. 43: 2025/05/06
51: C12C
71: Heineken Supply Chain B.V.
72: VISSCHER, Hendrik Jan, BEKKERS, Augustinus Cornelius Aldegonde Petrus Albert, VISSENAEKENS, Johan Franciscus Maria, HOEKMAN, Christine Lidian
33: EP (NL) 31: 22171877.8 32: 2022-05-05
33: EP(NL) 31: 22171872.9 32: 2022-05-05
54: MALTED DEHUSKED BARLEY
00: -
The invention provides a malted dehusked barley having the following combination of features: • a moisture content of not more than 10 wt.%; • a colour value of less than 22 EBC; • an alpha-amylase activity of less than 58 Dextrinizing Units (DU) per gram of dry matter; • an extract content of solid adjuncts (C_E) of at least 79% by weight of dry matter; • a Klason lignin content (C_L) of less than 1.8% by weight of dry matter; • an ash content (C_A) of less than 2.2 % by weight of dry matter; wherein $25 \leq CE/(C_L*C_A) \leq 160$. The malt of the present invention can be produced by a malting process that (i) comprises the step of at least partial dehusking barley grains prior to malting and (ii) employs a shortened germination period.

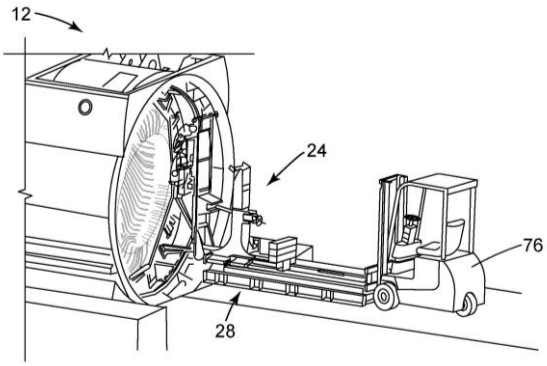
21: 2024/08294. 22: 2024/11/01. 43: 2025/05/07
51: C11D
71: Givaudan SA
72: GENCARELLI, Ralph, MIRZA, Muhammad, DI MARTINO, Sergio
33: US 31: 63/327,141 32: 2022-04-04
54: FABRIC CARE COMPOSITION
00: -
The present invention relates to a bleach-free laundry sanitizer composition comprising at least one microcapsule composition comprising a polymer encapsulating a benefit agent, wherein the benefit agent is encapsulated in core-shell microcapsules comprising a core and a shell surrounding the core.

21: 2024/08296. 22: 2024/11/01. 43: 2025/05/16
51: H02K
71: General Electric Technology GmbH
72: VOUILLOT, Romain Marie-Pierre Patrick, BREUILLARD, Luc Andre Marie
54: AN ELECTRIC GENERATOR PHASE RING HANDLING TOOL, A SYSTEM FOR SERVICING OR INSTALLING ONE OR MORE PHASE RINGS IN AN ELECTRIC GENERATOR COMPRISING

SAID HANDLING TOOL AND A METHOD FOR SERVICING OR INSTALLING ONE OR MORE PHASE RINGS IN AN ELECTRIC GENERATOR WITH SAID SYSTEM

00: -

An electric generator phase ring handling tool (24), a phase ring loading tool (26), base loader (28), and a system and a method for servicing or installing one or more phase rings (20) in an electric generator (12) using the handling tool, the loading tool and the base loader (28). Phase rings (20) can be picked up and transported to a generator (12), inserted into the generator (12), adjusted while inside the generator (12), and removed. Installation, removal and servicing of the rings in a generator (12) avoids use of a crane and allows shorten generator (12) outage duration. Without using a crane for installation, removal and servicing, the safety of workers performing these operations is enhanced. Also, increased precision in transporting, placing, installing, removing, and adjusting the rings is obtained, minimizing the risk of damage to the rings and the generator (12).



21: 2024/08318. 22: 2024/11/04. 43: 2025/05/07
51: C12N
71: Beijing Academy of Agriculture and Forestry Sciences
72: Ting LIU, Dan DONG, Huiling WU, Taotao ZHANG

54: ASPERGILLUS NIGER FUNGUS FOR TOXICITY OF PLANT PARASITIC NEMATODES AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

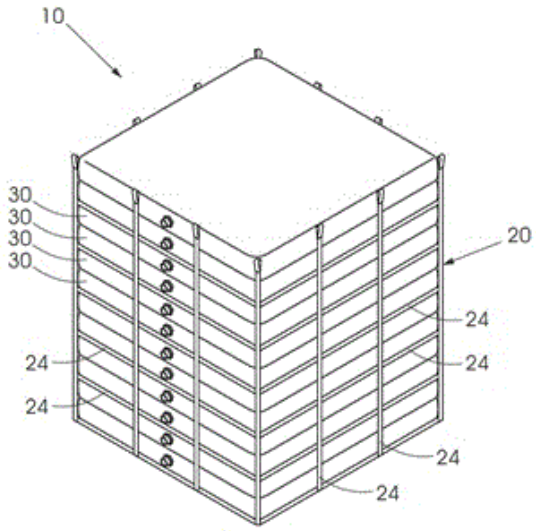
The present invention relates to a culture method of a fungus with toxic effects on plant parasitic nematodes and a preparation method and application of metabolites thereof, which belongs to the field of microbial pesticide technology. The fungal strain Aspergillus niger Y-61 involved in the present invention, it has been preserved in the China General Microbiological Culture Collection Center on August 7, 2008, with the accession number: CGMCC No. 2631. The taxonomic status of Y-61 is as follows: Mitosporangia, Hyphomycetes, Hyphomycetales, Moniliaceae, Aspergillus, Aspergillus niger. Its metabolites were prepared by liquid fermentation culture, which had high toxicity and obvious nematicidal effect on plant parasitic nematodes, especially root-knot nematodes, the effects of the fermentation broth of the strain on the hatching of the 2nd instar larvae and oocysts of Meloidogyne incognita were determined in the laboratory. There were significant differences in the treatment of different dilution concentrations of fermentation broth and sterile water treatment, the concentration of more than 5 times of fermentation broth was equivalent to the control effect of 10 Micrograms per milliliter Rugby. It has a good application development prospect.

21: 2024/08322. 22: 2024/11/04. 43: 2025/05/16
51: E21D
71: SPIROTECH MINING SERVICES (PTY) LTD.
72: O'HAUGHEY, DEANE CONOR
33: ZA 31: 2023/10258 32: 2023-11-03

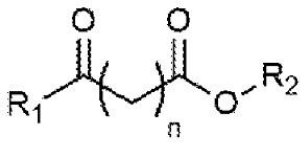
54: MINE SUPPORT STRUCTURE

00: -

This invention concerns a mine support structure for use in a mine excavation. The support structure includes a support frame which is free from rigid supports such that it is configurable between a first, erected state and a second, collapsed state. The support frame has at least one compartment in its first, erected state for receiving a construction element that is, in use, fillable with a curable filling medium to occupy the compartment. The support frame further includes at least one restraint for restraining the construction element inside the compartment.

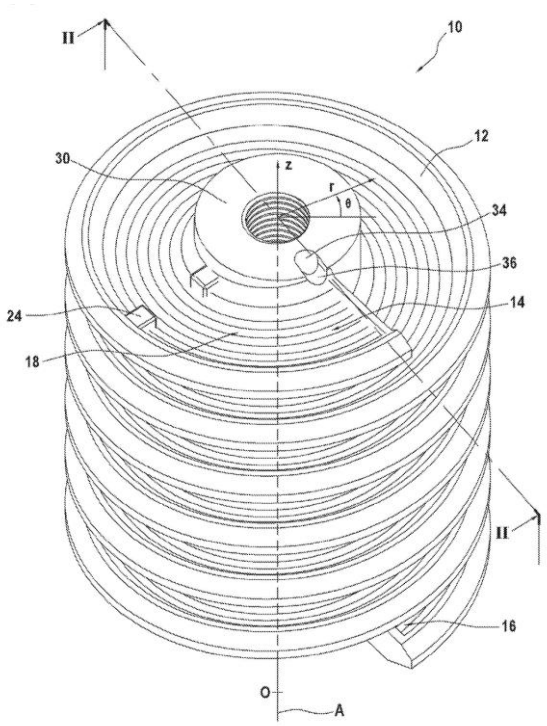


21: 2024/08327. 22: 2024/11/04. 43: 2025/05/07
51: C07C; C12P
71: UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG
72: PIENAAR, Daniel Petzer, BRADY, Dean, MABOYA, Josephine Tshegofatso
33: ZA 31: 2022/03797 32: 2022-04-04
54: ENANTIOSELECTIVE METHODS FOR PREPARING CHIRAL AMINE INTERMEDIATES
00: -
A method for preparing chiral amines useful as pharmaceutical intermediates is provided. The method comprises contacting an ester of formula I in which R1 is a methyl or an ethyl group; R2 is a linear or branched C1 – C4 alkyl group; and n is 0 or 1 with an enantioselective ω-transaminase in the presence of an amino donor so that the ω-transaminase catalyses the enantioselective transfer of an amino group from the amino donor to the a- or ß-ketone group of the ester of formula I to produce an amino ester product with enantiomeric excess of a selected enantiomer.



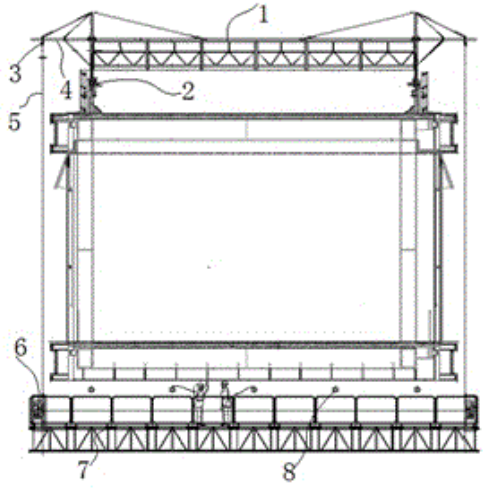
(formula I)

21: 2024/08336. 22: 2024/11/04. 43: 2025/05/16
51: A01G
71: Agro Innovation International
72: BILLIOT, Bastien, PLUCHON, Sylvain
33: FR 31: 2204286 32: 2022-05-05
54: POT AND METHOD FOR GROWING PLANTS
00: -
The invention relates to a pot (10) for growing a plant, comprising a planting zone (18) and a root guiding channel (12) extending between a fluid inlet (14) and a fluid outlet (16) and configured to guide root development downstream of the planting zone (18), said channel (12) being accessible to the roots of a plant planted in the planting zone (18), the channel (12) wrapping around a guide line (A) and forming more than one revolution around said guide line (A) between the inlet (14) and the outlet (16).



21: 2024/08409. 22: 2024/11/06. 43: 2025/05/12
51: E04G; E04F
71: THE THIRD CONSTRUCTION CO., LTD OF CHINA CONSTRUCTION THIRD ENGINEERING BUREAU
72: ZHANG, BO, LI, LING, XU, SHIJIE, HU, XIAOGUANG, WANG, HUOHUA, LIU, JUNFENG, XU, XIAOQIN, PENG, KUN, SU, PEIJUN, DAI, WANTING, ZHANG, ENHUI
33: CN 31: 202210419611.4 32: 2022-04-20
54: CONSTRUCTION OPERATION METHOD AND SYSTEM FOR OUTER CURTAIN WALLS OF HIGH-ALTITUDE LARGE-SPAN BUILDING CORRIDOR
00: -
A construction operation method and system for outer curtain walls of a high-altitude large-span

building corridor. A truss (1) is supported and fitted on rails (19) on two sides by means of bottom locomotion mechanisms (2); winches (9) and cantilevers (4) are arranged on two sides of the top of the truss (1); guide wheel systems (3) for installing hoisting ropes (5) and guide wheel systems (3) for installing transfer ropes (10) are arranged on the cantilevers (4); the transfer ropes (10) are driven by the winches (9); hoisting machines (6) drive, by means of the hoisting ropes (5), a hoisting construction platform (7) to rise to a position in the vicinity of the bottom of a corridor, a longitudinal bottom construction hanging rope (8) is arranged in the vicinity of the bottom of the corridor, and a safety rope is hung on the bottom construction hanging rope (8) for bottom suspended ceiling construction of the corridor; the hoisting machine (6) on a hanging basket (13) drives, by means of the hoisting rope (5), the hanging basket (13) to rise to a side of the corridor, and the safety rope is connected to a side construction hanging rope for side curtain wall construction of the corridor; and construction materials are transferred back and forth between the ground and a construction area by means of the transfer ropes (10) driven by the winch (9) on the side where the construction materials are located. According to the method, integrated construction of bottom suspended ceilings and side curtain walls is achieved, and material transfer and installation construction are achieved by constructors without returning to the ground.

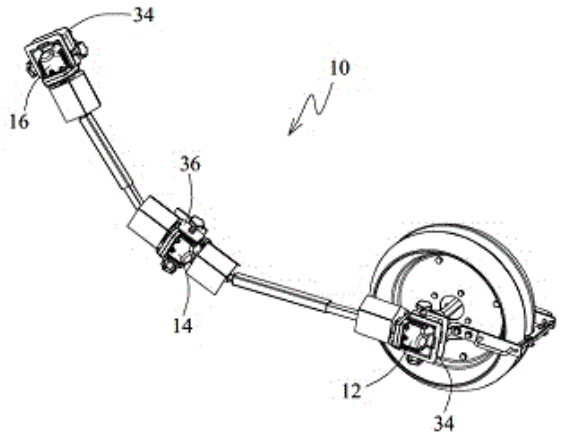


21: 2024/08428. 22: 2024/11/07. 43: 2025/05/09
51: F16H, A01C, F16C, F16F
71: DEERE & COMPANY
72: SIDDHESHWARAN, RAJASEKAR, KUMAR, ROUSHAN, KATHIRVEL, ANANDRAJ
33: IN 31: 202321077074 32: 2023-11-10

54: A DRIVE TRANSMISSION ARRANGEMENT FOR A PLANTER

00: -

The present invention provides a drive transmission arrangement (10) for a planter having a first gear box housing (12), a second gear box housing (14) and a third gear box housing (16). A first bracket (34) is associated with the first gear box housing (12) and the third gear housing (16), while second bracket (36) is associated with the second gear box housing (14). The first gear box housing (12) and the third gear box housing (16) are disposed within the first bracket (34) while the second gear box housing (14) is disposed within the second bracket (36). A pair of bolts (52 and 54) maintains a resilient member (48) sandwiched between the first bracket (34), the second bracket (36) and associated the first gear box housing (12), the second gear box housing (14) and the third gear box housing (16).



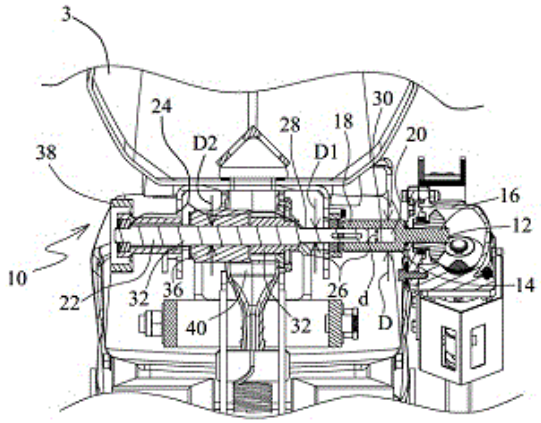
21: 2024/08429. 22: 2024/11/07. 43: 2025/05/09
51: A01C
71: DEERE & COMPANY
72: SIDDHESHWARAN, RAJASEKAR, KUMAR, ROUSHAN, KATHIRVEL, ANANDRAJ
33: IN 31: 202321076544 32: 2023-11-09

54: A METERING SYSTEM

00: -

The present invention provides for a metering system (10) associated with a drive mechanism (12) transmitting a rotational drive. The metering system (10) consists of an outer shaft (14) defined with an axial bore (20), an inner shaft (22) slidably disposed

within the axial bore (20), a knob (38) cooperates with the inner shaft (22) to be slidably displaced within the axial bore (20). A pick-up unit (32) and a sleeve (36) are mounted on the inner shaft (14). The operation of the knob (38) causes the sleeve (36) to slide over the pick-up unit (32) to adjust the quantity of fertilizer which is required to be deposited on a ground during sowing.

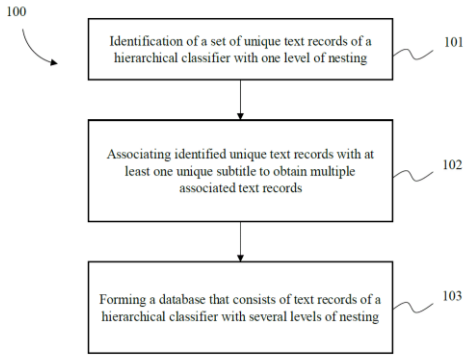


21: 2024/08433. 22: 2024/11/07. 43: 2025/05/12
51: G06F
71: Anna Valerevna Chernyaeva
72: Maksim Andreevich Chernyaev
33: RU 31: 2024128773 32: 2024-09-27

54: METHOD FOR EXTRACTING TEXT RECORDS OF A HIERARCHICAL CLASSIFIER WITH SEVERAL LEVELS OF NESTING FROM A DATABASE

00: -

The present technical solution relates to the field of digital technologies, in particular to the methods of forming databases of text records of a hierarchical classifier with several levels of nesting. The technical result is the automation of the formation of a list of goods and services and an increase in the accuracy of the formation of a list of goods and services through the use of hierarchical relationships using the sign of connectivity of records. In a preferred embodiment claimed a method for extracting a text record from a database (DB) of text records of a hierarchical classifier with several levels of nesting, performed by the processor of a computing device and containing the following steps: forming request to the database of text records of a hierarchical classifier with several levels of nesting, wherein the database contains at least a set of the associated text records, and each record has an associated at least one first sign of connectivity, and each first sign of connectivity corresponds to one of the subheadings, in which each unique text record is associated with a unique title, and each unique title contains a list consisting of at least plurality of the unique subheadings; and identified unique text records are associated in the database with one of the unique subheadings forming a set of associated text records; extracting at least one associated text record from the database.



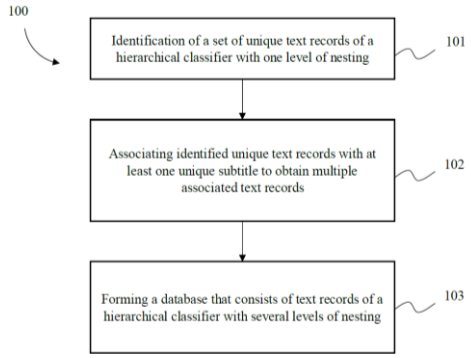
21: 2024/08434. 22: 2024/11/07. 43: 2025/05/12
51: G06F
71: Anna Valerevna Chernyaeva
72: Maksim Andreevich Chernyaev
33: RU 31: 2024128780 32: 2024-09-27

54: DEVICE FOR EXTRACTING TEXT RECORDS OF A HIERARCHICAL CLASSIFIER WITH SEVERAL LEVELS OF NESTING FROM A DATABASE

00: -

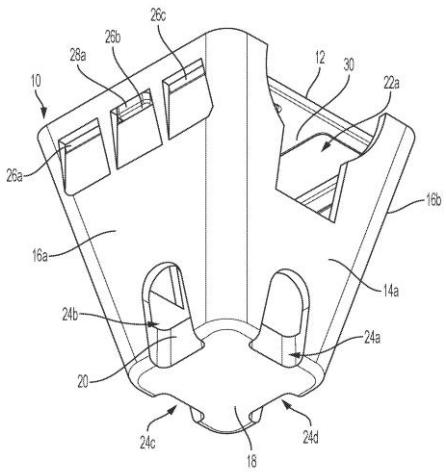
The present technical solution relates to the field of digital technologies, in particular to the methods of forming databases of text records of a hierarchical classifier with several levels of nesting. The technical result is the automation of the formation of a list of goods and services and an increase in the accuracy of the formation of a list of goods and services through the use of hierarchical relationships using the sign of connectivity of records. In a preferred embodiment claimed a device for extracting a text record from a database of text records of a hierarchical classifier with several levels of nesting, wherein the device contains at last one processor and the processor executes the following steps: forming request to the database of text records of a hierarchical classifier with several levels of nesting, wherein the database contains at least a set of the

associated text records, and each record has an associated at least one first sign of connectivity, and each first sign of connectivity corresponds to one of the subheadings, in which each unique text record is associated with a unique title, and each unique title contains a list consisting of at least plurality of the unique subheadings; and identified unique text records are associated in the database with one of the unique subheadings forming a set of associated text records; extracting at least one associated text record from the database.



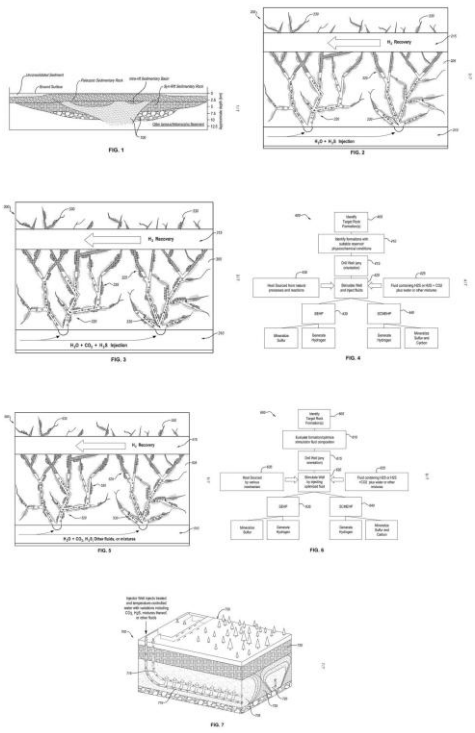
21: 2024/08443. 22: 2024/11/07. 43: 2025/05/13
51: C22B
71: FUNDACION TECNALIA RESEARCH & INNOVATION
72: INOKA SIRIWARDANA, Amal, UNZURRUNZAGA ITURBE, Ainhoa, HIDALGO BETANZOS, Joaquin, ANTOÑANZAS GONZÁLEZ, Francisco Javier, ALDANA MARTINEZ, Jose Luis, DEL RÍO GAZTELURRUTIA, Carmen, POZO ZAMORA, Guillermo Alonso, SÁNCHEZ CUPIDO, Laura, MARTIN UGARTE, Eider
33: ES 31: 22382410.3 32: 2022-04-28
54: PROCESS FOR THE RECOVERY OF PLATINUM FROM SPENT PLATINUM-CONTAINING SOLID RESIDUES
00: -
It relates to a process for the recovery of a platinum group metal (PGM) material comprising platinum from a waste material which comprises a spent solid residue containing platinum and optionally palladium, which comprises the steps of: a) subjecting the material to a leaching step in the presence of a suitable leaching agent, an oxidizing agent, and an acidic medium; b) when the weight ratio of palladium and platinum in the leachate obtained in the previous step is lower than about 1.1:1, adding palladium to the leachate until such ratio is equal to or higher than about 1.1:1; and c) subjecting the leachate comprising platinum and palladium to a reducing step to precipitate a platinum group metal (PGM) material comprising platinum in metallic form from the leachate. It also relates to the use of palladium for the recovery of platinum from a leachate comprises platinum and palladium in a weight ratio equal to or higher than about 1.1:1.

21: 2024/08445. 22: 2024/11/07. 43: 2025/05/13
51: A01M
71: TERRAMOR, INC.
72: WALTON, Vaughn, TAIT, Gabriella
33: US 31: 63/348,826 32: 2022-06-03
54: SYSTEMS AND METHODS FOR INSECT CONTROL
00: -
Dispensers according to the inventive subject matter have a set of one or more functional attributes. The dispenser may include a receptacle area for supporting a substrate. The dispenser may allow for insect ingress. The dispenser may allow for easy wetting of the substrate on the receptacle, or to allow for release of active agents, while supporting the substrate above standing water. Similarly, the dispenser may allow for easy coupling to irrigation lines that provide the wetting or for coupling to other objects to secure a dispenser in place. The dispenser may allow for easy addition of substrates onto the receptacle to replenish used substrates. Methods of deploying insect control compositions using dispensers are also contemplated.



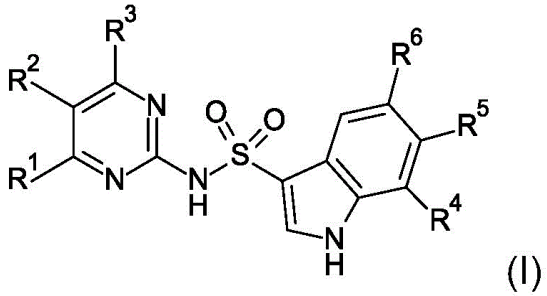
21: 2024/08496. 22: 2024/11/08. 43: 2025/05/26

51: C01B; E21B
71: KOLOMA, INC.
72: DARRAH, Thomas, WHYTE, Colin, HARRINGTON, Jacob, JOHNSON, Peter
33: US 31: 63/330,216 32: 2022-04-12
33: US 31: 63/330,220 32: 2022-04-12
33: US 31: 63/330,223 32: 2022-04-12
54: HYDROGEN PRODUCTION AND SULFUR-CARBON SEQUESTRATION
00: -
Embodiments of the invention relate to producing hydrogen from a subsurface formation by injecting a reactant into the subsurface formation and reacting the reactant with the subsurface formation to form at least one of hydrogen gas or a mineralized product within the subsurface formation. The hydrogen produced is collected or one or more components of the reactant is sequestered to form a mineralized product in the subsurface formation. Other embodiments of the invention relate to producing hydrogen by injecting a thermal fluid into the subsurface rock formation, where the thermal fluid includes a reactant. The reactant is reacted with components in the subsurface formation to form at least one of hydrogen gas mineralized sulfur, or mineralized carbon.



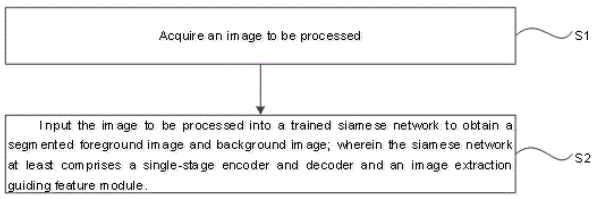
21: 2024/08503. 22: 2024/11/08. 43: 2025/05/14

51: A61K; A61P; C07D
71: F. Hoffmann-La Roche AG
72: GALLEY, Guido, GOBBI, Luca Claudio, GUBA, Wolfgang, MAZUNIN, Dmitry, PINARD, Emmanuel
33: EP(CH) 31: 22187365.6 32: 2022-07-28
54: NOVEL 7-SUBSTITUTED INDOLE SULFONAMIDE DERIVATIVES
00: -
The invention relates to novel compounds having the general formula (I), wherein R^1, R^2, R^3, R^4, R^5 and R^6 are as described herein, composition including the compounds and methods of using the compounds.

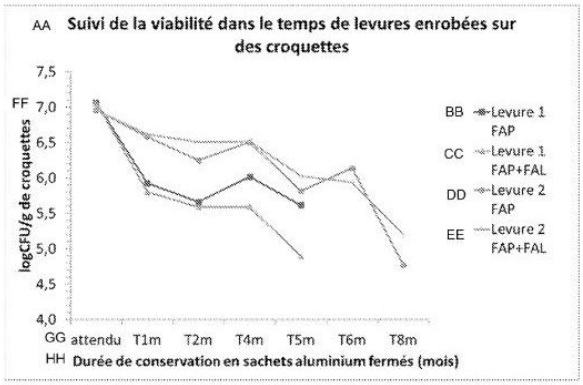


21: 2024/08522. 22: 2024/11/11. 43: 2025/05/30
51: G06T
71: Peking University, Shenyang Urban Construction University
72: Zhang Guangyuan, Jiang Baoshi
33: CN 31: 2024114377952 32: 2024-10-15
54: A METHOD, A DEVICE AND A MEDIUM FOR IMAGE SEGMENTATION
00: -
The present invention provides a method, a device and a medium for image segmentation. And the method comprises the following steps: acquire an image to be processed; input the image to be processed into a trained siamese network to obtain a segmented foreground image and background image; wherein the siamese network at least comprises a single-stage encoder and decoder and an image extraction guiding feature module. In the method, the trained siamese network comprises the single-stage encoder and decoder and the image extraction guiding feature module, and the traditional siamese network is improved, wherein the single-stage encoder and decoder are adopted to reduce the model complexity and improve the model running speed. At the same time, image extraction guiding feature module is used to extract key feature information from the image to be processed, which suppresses irrelevant information, thus improving the discrimination between foreground and background and further improving the accuracy of segmentation. All in all, this method can capture the subtle feature differences in images more effectively,

which not only strengthens the ability of feature extraction, but also improves the recognition accuracy of image edges and details.



21: 2024/08587. 22: 2024/11/12. 43: 2025/05/21
51: A23K; C12N; C12R
71: LESAFFRE ET COMPAGNIE
72: ADIB LESAUX, Achraf, SAMPSONIS, Cécile, RABOT, Rodolphe
33: FR 31: FR2203569 32: 2022-04-15
54: SACCHAROMYCES CEREVISIAE YEAST AND USE THEREOF FOR IMPROVING THE INTESTINAL HEALTH OF PETS
00: -
The invention relates to a Saccharomyces cerevisiae yeast obtained by culturing the Saccharomyces cerevisiae strain deposited on 3 March 2021 with the CNCM under number I-5660, which is an active yeast strain having the following properties: - a dry matter content of greater than 95% by weight and up to 97% by weight; a water activity of 0.1 to 0.3; a spherule shape; a particle size distribution characterised by a Gaussian size distribution curve showing that at least 90% of the spherules have a diameter ranging from 0.3 to 0.7 mm; a stability ranging from 24 to 36,months, when in vacuum packaging and at a temperature of 15 to 25°C. The invention also relates to the use of said yeast for improving the intestinal health of pets. The invention also relates to a composition for pets, characterised in that it comprises a yeast as defined above, said yeast having a shelf life that ranges from 12 to 24 months within said composition. Such a composition may be a solid palatability enhancer or a kibble comprising, for example, said palatability enhancer. The invention further relates to the use of said composition for improving the intestinal health of pets.



AA Tracking viability over time for coating yeasts on kibble
BB Yeast 1, powder appetence factor
CC Yeast 1, powder appetence factor + liquid appetence factor
DD Yeast 2, powder appetence factor
EE Yeast 2, powder appetence factor + liquid appetence factor
FF logCFU/g of kibble
GG wait
HH Shelf life in sealed aluminium sachets (months)

21: 2024/08589. 22: 2024/11/12. 43: 2025/05/21
51: E05B
71: ABLOY OY
72: HEISKANEN, Ville, RAATIKAINEN, Juha, HASSINEN, Tommi, RYHÄNEN, Mika
33: FI 31: 20225451 32: 2022-05-23
54: SWING HANDLE ARRANGEMENT WITH A LOCKING FUNCTION
00: -
The swing handle arrangement according to the invention comprises a locking function. The arrangement comprises a swing handle (1), a frame (2), and a spindle arrangement (3). The swing handle is pivoted to the spindle arrangement, and the spindle arrangement is pivoted to the frame. The swing handle arrangement also comprises an electric actuator (4), a shaft arrangement (5) for the electric actuator, and a latch (6) arranged in the frame (2). The swing handle further comprises a latching surface (7). The latch (6) is arranged to be against the latching surface (7) of the swing handle in the locking position of the swing handle. The latch (6) and the latching surface (7) are thus arranged to lock the swing handle arrangement, which can be unlocked by means of the electric actuator (4) via the shaft arrangement (5) for the electric actuator.

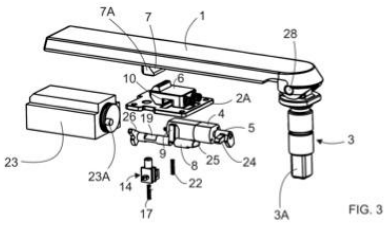
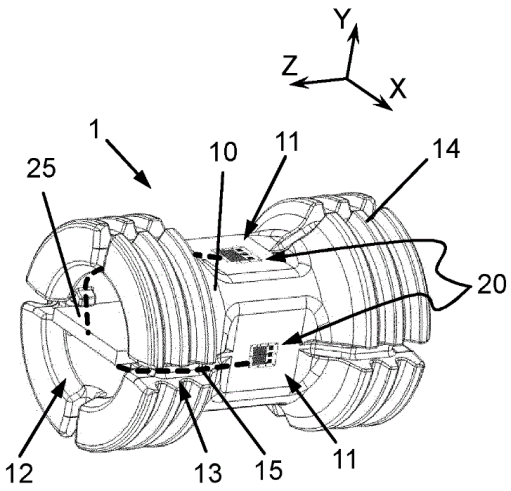


FIG. 3

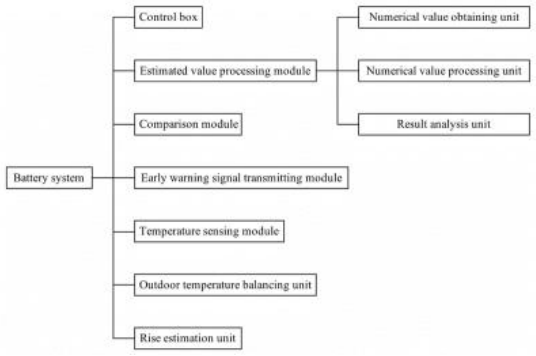
21: 2024/08592. 22: 2024/11/12. 43: 2025/05/30
51: E02F; G01L
71: METALOGENIA RESEARCH & TECHNOLOGIES S.L.
72: GIMENO TORDERA, Albert, FERRÁNDIZ BORRAS, Vicent
33: EP 31: 22382417.8 32: 2022-04-29
54: STRAIN MEASURING SENSOR DEVICES FOR EARTH MOVING MACHINES
00: -
Sensor device (1) for an earth moving machine, including: at least one body (10); a first plurality of strain measuring sensors (20) arranged on one or more bodies of the at least one body such that the first plurality of sensors measures strains in at least two different axes (X, Y), where the first plurality includes at least four strain measuring sensors (20); and one or more electronic devices configured to provide, for at least two different axes (X, Y, Y'), a difference between measurements of two different strain measuring sensors of the first plurality for each axis of the at least two different axes. Also, a method, a wear element, and a wear element assembly including the sensor device.



21: 2024/08618. 22: 2024/11/13. 43: 2025/07/16
51: A01P
71: Botha, Martin
72: Botha, Martin
33: ZA 31: 2024/01386 32: 2024-02-15
54: A NOVEL COMBINATION OF SALICYLIC ACID, MINERAL HYDROXIDES, AND CARBONIC ACID SALTS FOR SYSTEMIC ACQUIRED RESISTANCE AND DISEASE INHIBITION
00: -
The invention relates to an agricultural formulation and method for enhancing systemic acquired resistance (SAR) and disease inhibition in plants. The formulation comprises salicylic acid (or potassium salicylate), at least one mineral hydroxide (such as potassium hydroxide or calcium hydroxide), and a carbonic acid salt (such as potassium hydrogen carbonate), creating a synergistic combination that activates SAR and improves plant resilience. This water-soluble formulation is easily applied, with concentrations ranging from 250g to 1000g per 100 liters of water, tailored to plant needs. Application may occur at specific growth stages or intervals, such as every 7 days during high disease pressure. Effective against scab in apple trees, the formulation also supports various crops, providing a sustainable alternative to chemical pesticides. By promoting the activation of pathogenesis-related proteins, the formulation enhances natural plant defenses, making it a valuable tool for sustainable agriculture and improved crop health

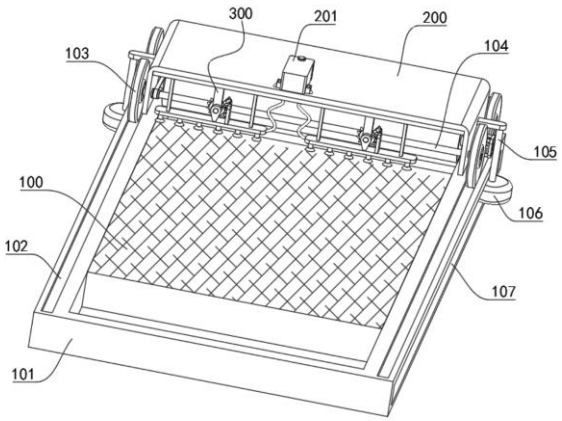
21: 2024/08623. 22: 2024/11/13. 43: 2025/05/30
51: H05K
71: ANHUI ACCORD SCIENCE AND TECHNOLOGY CO., LTD.
72: XU, Liuxi, HOU, Shouwei, XIA, Mingming, WANG, Yanghaoran, HE, Humin
33: CN 31: 202211584627.7 32: 2022-12-10
54: BATTERY SYSTEM CAPABLE OF HEAT DISSIPATION
00: -
A battery system capable of heat dissipation, which relates to the technical field of batteries. The battery system comprises an estimated value processing module and a comparison module, wherein parameters of an electrical element are acquired and processed by the estimated value processing module, so to obtain an estimated value; the comparison module acquires the estimated value obtained by the estimated value processing module, compares the estimated value with a threshold value to acquire a final result, and determines whether to

start an early-warning signal transmitting module; during use, the estimated value processing module and the comparison module are used to implement whether to send an early-warning signal; by dividing the interior of a control box (1) into a plurality of temperature zones (20, 24), a temperature change curve corresponding to the plurality of temperature zones (20, 24) is obtained, the obtained temperature change curve is sent to a control terminal, and the control terminal determines a temperature change condition; and a temperature adjustment trend upon using a plurality of loads or a plurality of batteries together is monitored by means of a real-time change condition and a trend simulation condition.

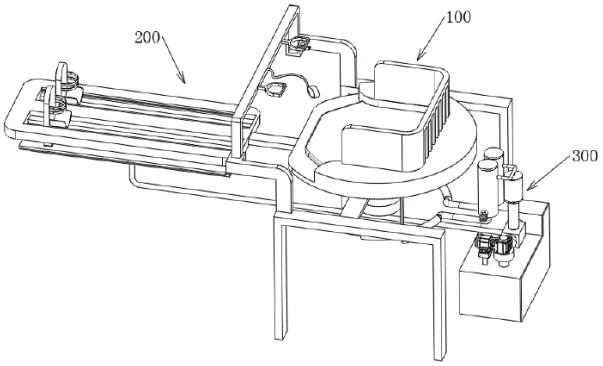


21: 2024/08628. 22: 2024/11/13. 43: 2025/05/22
51: C07D; A61P; A61K
71: CHENGDU SHIBEIKANG BIOMEDICAL TECHNOLOGY CO., LTD.
72: ZENG, YANQUN, ZHOU, GUANGLIN, FU, HAIXIA, MOU, XIA
33: CN 31: 202210486129.2 32: 2022-05-06
54: CAREBASTINE SALT AND USE OF SAME
00: -
The present invention discloses a carebastine salt and a use of the carebastine salt, relates to the field of pharmaceutical chemistry, and solves the problems of carebastine in the related art such as poor solid form, excessive impurities, instability, difficulty in purification, difficulty in scale-up synthesis, and unsuitability for medicinal use. The carebastine salt of the present invention includes, but is not limited to, acid addition salts or base addition salts, and particularly includes potassium salts, sodium salts, methanesulfonate and p-toluenesulfonate. The carebastine salt of the present invention has the use of preparing histamine H1 receptor antagonist drugs. The carebastine salt of the present invention has the characteristics such as easy purification, high stability, simple process and easy industrial production, and has good hygroscopicity characteristics and is convenient for storage. At the same time, the salt of the present invention can quickly enter the body to exert the efficacy, has good oral absorption, is superior to ebastine in safety and individual differences, and is a promising anti-allergic disease drug.

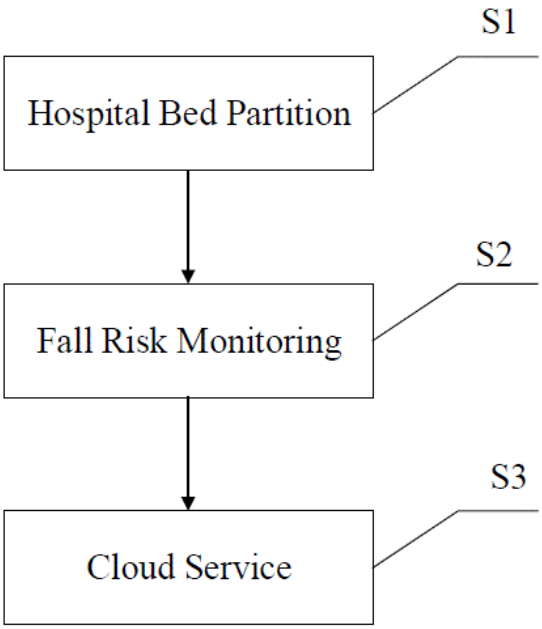
21: 2024/08687. 22: 2024/11/15. 43: 2025/05/30
51: B08B
71: Leshan Normal University
72: Zhu Jiaxiong, Xiao Zhigang, Chang Feng
54: A PHOTOVOLTAIC MODULE CLEANING DEVICE
00: -
The present invention discloses a photovoltaic module cleaning device, which relates to the field of photovoltaic module technology, comprising a frame and a main board. A cleaning roller is rotatably provided on the main board, and a motor is fixedly provided on the side wall of the main board. The output end of the motor is connected to the cleaning roller for transmission. The frame is mounted on the photovoltaic panel, and the main board is equipped with a spraying mechanism that can spray cleaning solution onto the surface of the photovoltaic panel. The main board is equipped with a side plate, and the side plate is equipped with a wiping mechanism for wiping water stains on the surface of the photovoltaic panel. Through the comprehensive effects of automatic spraying of cleaning solution, physical cleaning, and wiping sponge body, the stains on the photovoltaic module can be softened and cleaned again, and excess water stains on the surface of the photovoltaic panel can be wiped after cleaning. It can efficiently remove impurities such as dust and dirt on the surface of photovoltaic panels, Prevent stains on photovoltaic modules from affecting their power generation performance and ensure their power generation efficiency.



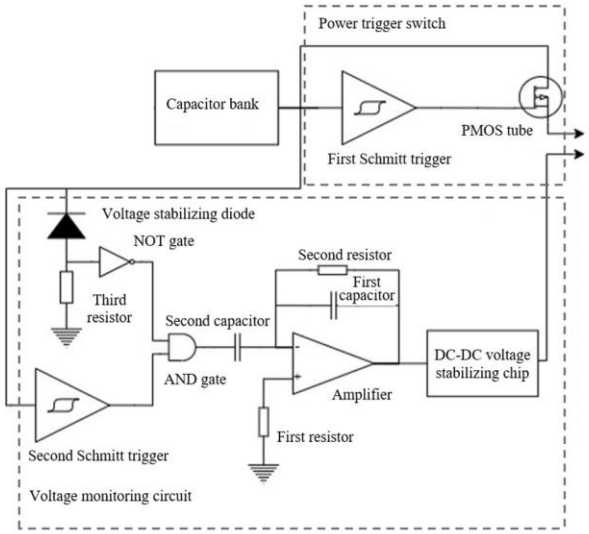
21: 2024/08756. 22: 2024/11/18. 43: 2025/05/30
51: A63B
71: THE THIRD AFFILIATED HOSPITAL, GUANGZHOU MEDICAL UNIVERSITY (GUANGZHOU MEDICAL CENTER FOR CRITICAL PREGNANT WOMEN, GUANGZHOU ROUJI HOSPITAL)
72: Shixiang WANG, Youquan CHEN
54: CARDIAC REHABILITATION AUXILIARY TREATMENT DEVICE
00: -
The present disclosure relates to the technical field of auxiliary rehabilitation equipment, in particular to a cardiac rehabilitation auxiliary treatment device.The cardiac rehabilitation auxiliary treatment device, comprising: an exercise assistance mechanism, used for assisting a patient in performing reciprocal waist twisting exercises, wherein the exercise assistance mechanism comprises a turntable. In the present disclosure, when the pressure applied by the pressure spring on the bottom second piston disk decreases, the resistance experienced by the patient during waist twisting exercises will consequently diminish. Due to the connection between the square tube and the four-way shell through the hose, a reduction in hydraulic pressure within the four-way shell will cause the height of the rubber plate to lower. This, in turn, reduces the friction force between the friction plate and the rubber plate, leading to a decrease in the resistance encountered by the patient during knee bending exercises.



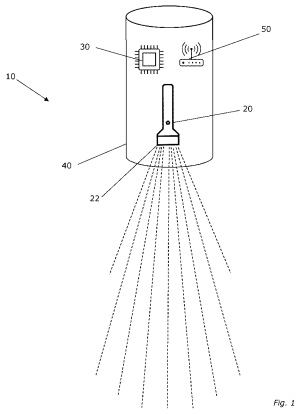
21: 2024/08759. 22: 2024/11/18. 43: 2025/05/30
51: A61G
71: GUANGZHOU INSTITUTE OF CANCER RESEARCH, THE AFFILIATED CANCER HOSPITAL, GUANGZHOU MEDICAL UNIVERSITY
72: Zhaochun ZENG, Lijun ZHANG
54: DATA MONITORING AND PROCESSING METHOD AND SYSTEM BASED ON INTELLIGENT HOSPITAL BED
00: -
The present disclosure discloses a data monitoring and processing method and system based on an intelligent hospital bed, and relates to the technical field of electronic digital data processing. The data monitoring and processing method based on the intelligent hospital bed, comprising the following steps: hospital bed partitioning, falling risk monitoring and cloud service. According to the present disclosure, the method comprises the following steps: acquiring pressure characteristic information preset in a sub-area of a patient's hospital bed by using a pressure sensor, and performing data processing to obtain hospital bed pressure data; monitoring hospital bed pressure data of a preset patient in real time to obtain a falling risk index, comparing the falling risk index with a falling risk threshold value, if the falling risk index is smaller than the falling risk threshold value, continuing monitoring, otherwise, feeding back to medical staff through an alarm notification.



21: 2024/08813. 22: 2024/11/20. 43: 2025/05/29
51: G01R; H02J; H02M
71: CENTRAL RESEARCH INSTITUTE OF BUILDING AND CONSTRUCTION CO., LTD. MCC
72: SHAO, Yanchao, WANG, Sheng, ZHANG, Muyu, LI, Xiaodong, FAN, Xiaokun, YAO, Qiyang, ZHOU, Zhenwei
33: CN 31: 2023116720270 32: 2023-12-07
54: PASSIVE LOAD MONITORING METHOD AND SYSTEM
00: -
The present invention discloses a passive load monitoring method and system, which belongs to the technical field of passive load monitoring. The method includes: collecting radio frequency energy, converting the radio frequency energy into electric energy and storing the electric energy; supplying power to a load when an output voltage of the stored electric energy rises to a first threshold, and stopping supplying the power to the load when the voltage drops to a second threshold; monitoring an output voltage drop process of the electric energy, and outputting a control signal when the voltage drops to a third threshold; and controlling energy consumption of the load according to the control signal.

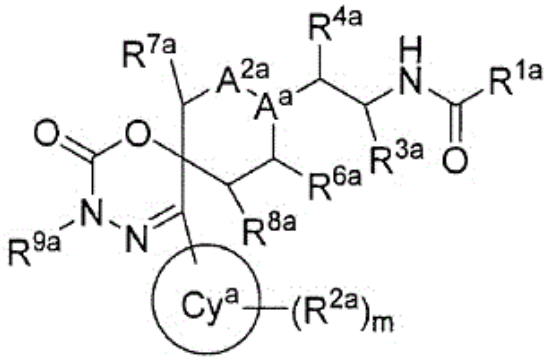


21: 2024/08821. 22: 2024/11/20. 43: 2025/05/29
51: E21B; G01S
71: MTI GROUP PTY LTD
72: FITZSIMONS, James Matthew Richard, BODLEY, Nicholas Grant, SMITH, Jamie Ryan, CLARK, Nathan James
33: AU 31: 2022902173 32: 2022-08-02
54: HOLE MEASUREMENT SYSTEM
00: -
A hole measurement system comprising: a sensor configured to take measurements when directed down the hole to provide measurement data, a processor for analysing the data and providing feedback to an operator, wherein the feedback indicates whether the measurement data represents a bottom of the hole, or an anomaly.



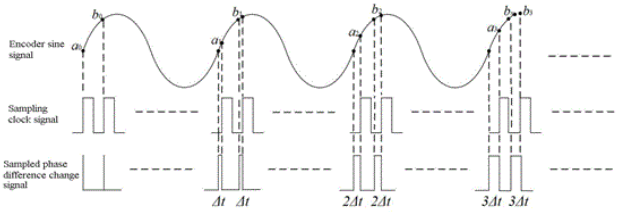
21: 2024/08903. 22: 2024/11/22. 43: 2025/05/29
51: C07D; A61K; A61P
71: JAPAN TOBACCO INC.

72: YOKOTA, MASAHIRO, KAYA, TETSUDO, TORIZUKA, MAKOTO, NAKAYAMA, YASUAKI, IKENOGAMI, TAKU, MAEDA, KATSUYA, OTAKE, KAZUKI, SAKURAI, KENTARO
33: JP 31: 2022-097544 32: 2022-06-16
54: DIHYDROOXADIAZINONE COMPOUND AND PHARMACEUTICAL USE THEREOF
00: -
The present invention provides a compound that exhibits a PLD-inhibitory activity. The present invention provides a compound having the following structural formula or the like, or a pharmaceutically acceptable salt thereof. (Each symbol in the formula is as defined in the description.)



[Ia]

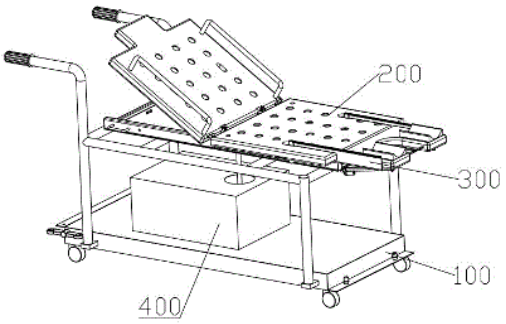
21: 2024/08959. 22: 2024/11/25. 43: 2025/06/09
51: H02P
71: TANGSHAN UNIVERSITY
72: JIA, Zhaomin, WANG, Chao, LI, Ran
33: CN 31: 202411520002.3 32: 2024-10-29
54: METHOD FOR MEASURING SUBDIVISION ANGLE OF ROTATING SHAFT OF ROBOT SERVO SYSTEM
00: -
The present invention relates to a method for measuring the subdivision angle of a rotating shaft of a robot servo system, and belongs to the technical field of digitally measuring the subdivision angle of a rotating shaft using an analog/digital converter and a sine-cosine encoder. Technical solution: A computer adjusts the frequency value between the sampling signal of the analog/digital converter and the sine signal output by the encoder to be a multiple and have a deviation relationship, and a phase detector detects the phase difference between the two signals, and stores the phase difference information and the sine-cosine signal sampling value. According to the periodic linearly changing phase difference information and the periodically changing sampling unit, the computer quickly extracts the last sine-cosine signal sampling value of the analog/digital converter and the sampling value at the next moment, digitally corrects the sine-cosine signal value output by the encoder at the last moment, and then obtains the subdivision angle. The present invention has high measurement accuracy and simple circuit structure, and solves the problems in general technology that the circuit cost is high and the angle subdivision accuracy is highly dependent on the number of encoder lines and the number of bits of the analog/digital converter, which affects the measurement speed.



21: 2024/08973. 22: 2024/11/26. 43: 2025/05/27
51: F03D
71: InAfrica Integrated Holdings Ltd
72: VAN PLETSEN, Louis, ROOS, Emily
54: WIND TURBINE SYSTEM
00: -
A compact wind turbine system arranged for retrofitting to existing poles is provided. The invention achieves its objectives using a twin vertical axis wind turbine downwind from a diverter shield.

21: 2024/09018. 22: 2024/11/27. 43: 2025/06/03
51: A61H
71: Fujian Cancer Hospital
72: CHEN Wenjuan, SUN Yang, BAI Penggang, XIE Xingyun
33: CN 31: 202411374918.2 32: 2024-09-29
54: TRANSFER BED FOR GYNECOLOGICAL AFTERLOADING THERAPY
00: -
The present invention relates to a transfer bed for gynecological afterloading therapy, comprising a frame and a bed board, wherein the bed board is positioned on the upper part of the frame. The transfer bed further includes: a rotator, with one end connected to the frame and the other end connected

to the bed board, used to control the bed board to rotate left or right; and privacy shields, arranged on the left and right sides of the bed board, for covering the patient's private areas. By equipping the gynecological tumor close-range radiotherapy positioning treatment transfer bed with privacy shields, the patient's private areas can be covered during the treatment process, protecting privacy and dignity without affecting the treatment progress. The rotator allows for patient positioning adjustments without moving the frame, saving time and effort. This gynecological tumor close-range radiotherapy positioning treatment transfer bed is simple and convenient to operate, making it suitable for widespread use.

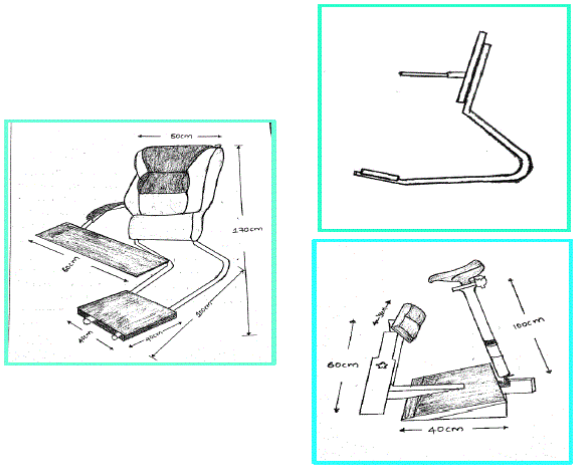


21: 2024/09049. 22: 2024/11/27. 43: 2025/06/04
51: A61M; G01N; G01S
71: SR UNIVERSITY
72: MR. G. ASHOK, MR. DARNA SAI SHASHANK, MR. E. SACHETH MAHIPAL, MR. SANTHOSH KUMAR KAMARAPU
33: IN 31: 202441068250 32: 2024-09-10

54: ERGONOMIC SEATING CHAIR OVERCOME THE DISCOMFORT CAUSED BY PROLONGED SITTING

00: -

A ergonomic seating chair to overcome the discomfort caused by prolonged sitting chair comprising a base (101), a cushioned seat (102) with adjustable height, a movable knee supporter (103) attached to the base or seat, a foot board (104) attached to the base, and adjustment mechanisms (105) for adjusting the knee supporter and seat height. The base is made of metal or a durable plastic. The knee supporter is adjustable in both height and angle. The foot board is made of anti-slip rubber. The adjustment mechanisms include at least one of: levers, knobs, or gas lift controls. Method of using the chair comprising adjusting the seat height to ensure the user's feet rest flat on the floor and knees are at a 90-degree angle, adjusting the knee supporter to a comfortable height and angle, adjusting other features of the chair as desired, and sitting in the chair.

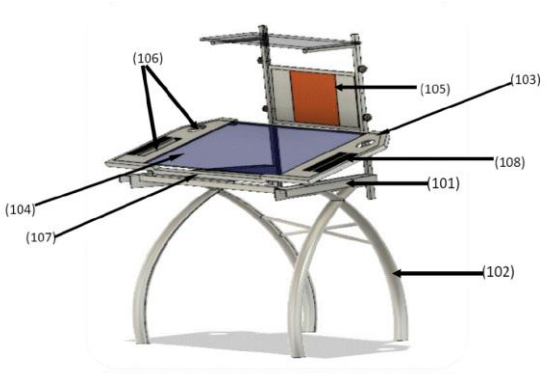


21: 2024/09050. 22: 2024/11/27. 43: 2025/06/04
51: C07K; A61P
71: SR UNIVERSITY
72: MR. G. ASHOK, MR. SANTHOSH KUMAR KAMARAPU, MR. DARNA SAI SHASHANK, MR. E. SACHETH MAHIPAL
33: IN 31: 202441068255 32: 2024-09-10

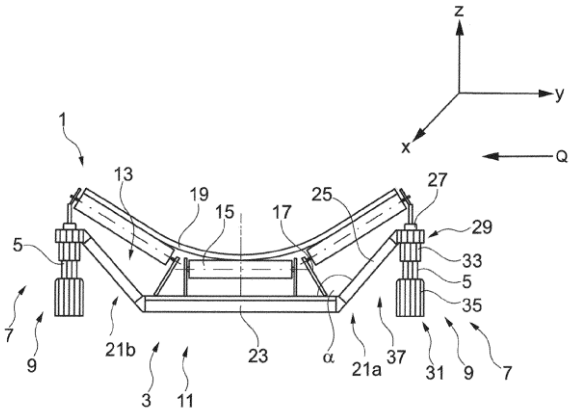
54: ADJUSTABLE ART DESK WITH STAIN-RESISTANT GLASS SURFACE AND INTEGRATED STORAGE COMPARTMENTS

00: -

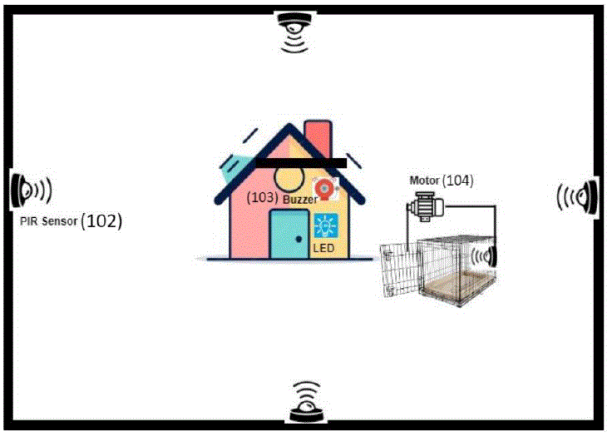
An adjustable art desk with stain-resistant glass surface and integrated storage compartments comprising; a base (101); legs attached to the base (102); a tabletop (103) made of reinforced glass, attached to the base; a drawing surface (104) integrated into the tabletop, capable of tilting to a maximum of 45 degrees; a corkboard (105) mounted on the back of the tabletop; multiple storage compartments (106) integrated into the tabletop or base; a paper holder (107) positioned on the tabletop; and cap holders (108) for organizing paintbrush and pen caps. The base is constructed from extruded aluminum and plastic caps. The storage compartments include a brush holder, a water holder, and a pencil ledge. The art desk further comprising a mechanism for adjusting the tilt of the drawing surface.



21: 2024/09062. 22: 2024/11/27. 43: 2025/06/04
51: G01G
71: QLAR EUROPE GMBH
72: BRAUER, Martin
33: DE 31: 10 2022 107 642.3 32: 2022-03-31
54: MEASURING ROLLER STATION FOR A BELT SCALE OF A CONVEYOR BELT SYSTEM AND CONVEYOR BELT SYSTEM
00: -
The present invention relates to a measuring roller station for a belt scale of a conveyor belt system, and to a conveyor belt system comprising said type of measuring roller station. The invention also relates to a method for removing or replacing a weighing unit of a belt weigher of a conveyor belt system.

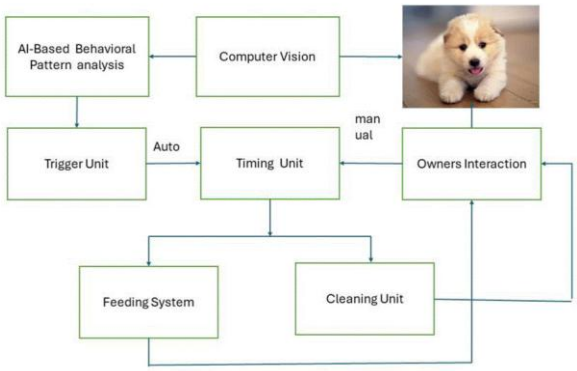


21: 2024/09083. 22: 2024/11/28. 43: 2025/06/04
51: C07D; C10N
71: SR UNIVERSITY
72: MR. G. ASHOK, SK THAHERBASHA
33: IN 31: 202441068256 32: 2024-09-10
54: AN ANIMAL DETECTION AND TRAP SYSTEM FOR SMART HOME
00: -
A motion-activated security system comprising an Arduino Uno microcontroller (101) for receiving signals from PIR sensors, controlling a siren and a servo motor, and implementing the system logic. Multiple PIR sensors (102) strategically positioned to detect infrared radiation emitted by moving objects. A siren (103) connected to a digital output pin on the Arduino Uno for activating an alarm when motion is detected. A servo motor (104) connected to a digital output pin on the Arduino Uno for controlling the opening and closing of a trap door or gate. A power supply (105) connected to the Arduino Uno and other components to provide necessary electrical power. The PIR sensors are connected to the Arduino Uno through digital input pins for transmitting motion detection signals. The siren and servo motor are connected to the Arduino Uno through digital output pins for activation based on processed signals. The PIR sensors' sensitivity, the siren's volume, and the servo motor's speed are adjustable to provide customizability based on user preferences.



21: 2024/09084. 22: 2024/11/28. 43: 2025/06/04
51: A61P
71: SR UNIVERSITY
72: L.M.I. LEO JOSEPH, P. GANESAN
33: IN 31: 202441068257 32: 2024-09-10
54: AUTONOMOUS AI-POWERED PET CARE SYSTEM
00: -
The present invention discloses an autonomous AI-powered pet care system that addresses the limitations of current pet care solutions by dynamically adapting the pet's environment to their individual needs and behaviors. The system uses a

combination of sensors, computer vision, AI-based behavioral pattern analysis, and environmental controls to create a comfortable and enriching habitat for pets, even in the owner's absence.

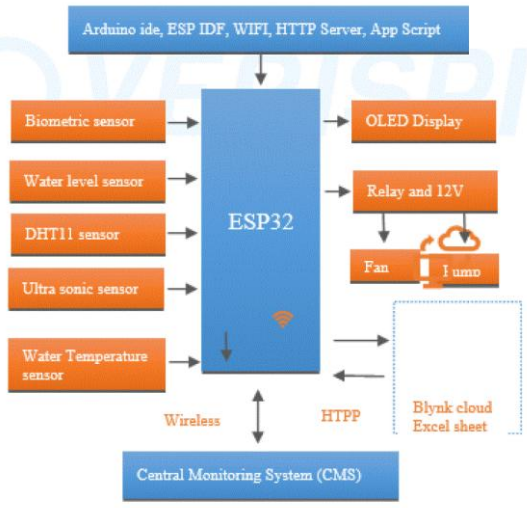


21: 2024/09085. 22: 2024/11/28. 43: 2025/06/04
51: A61K; C12N; A61P
71: SR UNIVERSITY
72: B. GIRIRAJAN, SANKU SAITEJA, KANDUKURI YESHWANTH, PINDIGA BHANU PRAKASH, GOLLAPELLI RAKESH
33: IN 31: 202441068261 32: 2024-09-10

54: INTEGRATED IOT-BASED MANAGEMENT SYSTEM FOR ANYTIME WATER KIOSKS

00: -

The present invention discloses an integrated Internet of Things (IoT)-based management system for Anytime Water Kiosks. The system addresses challenges associated with water scarcity and accessibility by implementing real-time water monitoring, immediate alerts, secure access, automated reporting and analytics, and remote management capabilities. IoT-enabled sensors continuously monitor water levels, generating alerts for timely replenishment. Biometric authentication ensures secure access, preventing unauthorized usage. Comprehensive reporting and analytics facilitate informed decision-making, while remote management capabilities enable proactive maintenance and optimization of water distribution.

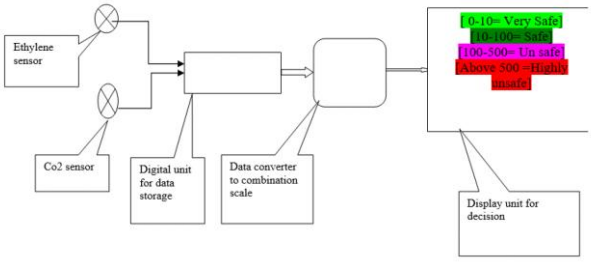


21: 2024/09096. 22: 2024/11/28. 43: 2025/06/05
51: A01N; A61P; H04W
71: SR UNIVERSITY
72: DR. DAMARLA. RAMESH BABU, DR RAKESH SENGUPTA, DR JAGIRDAR SRINIVAS
33: IN 31: 202441068262 32: 2024-09-10

54: METHOD AND SYSTEM FOR DETECTING AND QUANTIFYING CO2 AND ETHYLENE LEVELS IN FRUIT BOXES TO SEGREGATE OVERRIPE OR SPOILED FRUITS

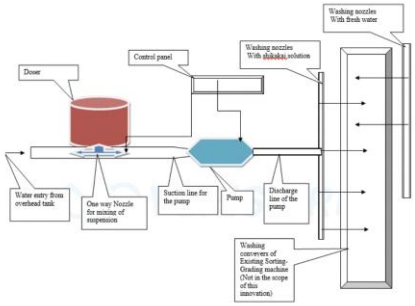
00: -

The present invention provides a novel method for detecting and quantifying CO2 and ethylene gas levels in fruit boxes to assess the risk of spoilage. By using a combination scale based on the concentrations of these gases, the system allows for timely segregation or disposal of overripe or spoiled fruits, ensuring that good quality fruits remain uncontaminated. This method offers a practical, efficient, and scalable solution for the fruit storage and supply chain industries.

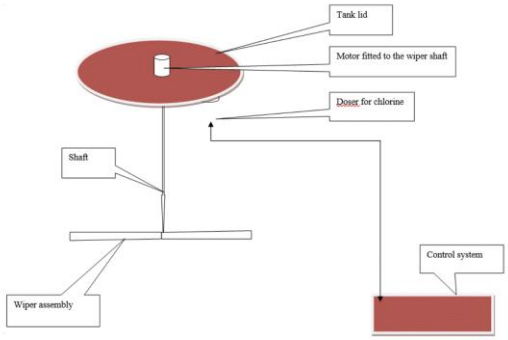


21: 2024/09097. 22: 2024/11/28. 43: 2025/06/05
51: A23N; A47J; B08B
71: SR UNIVERSITY

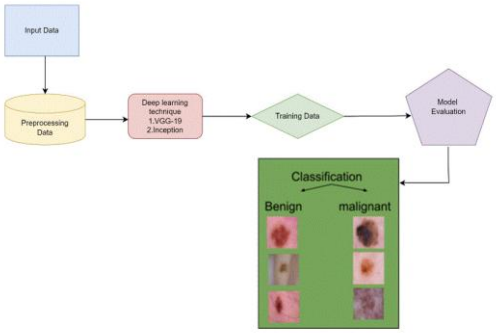
72: DR. DAMARLA. RAMESH BABU, DR. USHA DESAI
33: IN 31: 202441068266 32: 2024-09-10
54: DOSING SYSTEM FOR SHIKAKAI SUSPENSION-BASED FRUIT CLEANING
00: -
A dosing system for shikakai suspension-based fruit cleaning, comprising a doser configured to store and dispense a liquid suspension of shikakai, an automatic adjustable nozzle configured to control the flow rate and ratio of the shikakai suspension and water mixture, a pump configured to transport the shikakai suspension and water mixture from the doser to the washing nozzles on a sorting-grading line, an electronic control panel configured to regulate the dosing ratio, pump speed, and washing process on/off function. The doser is configured to mix the shikakai suspension with water in a ratio ranging from 0 to 10 percent, with optimized values between 2 and 5 percent. The automatic adjustable nozzle is configured to adjust the flow rate of the mixture based on the desired cleaning ratio. 4. The system as claimed in claim 1, wherein the pump is capable of delivering the shikakai suspension and water mixture to washing nozzles integrated into the fruit sorting-grading line.



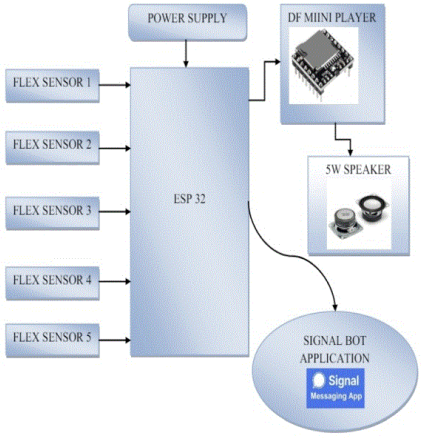
21: 2024/09098. 22: 2024/11/28. 43: 2025/06/05
51: E03B; G05B
71: SR UNIVERSITY
72: DR. DAMARLA. RAMESH BABU, DR. M. RAJYA LAXMI
33: IN 31: 202441068267 32: 2024-09-10
54: METHOD AND SYSTEM FOR AUTOMATIC CLEANING OF OVERHEAD WATER TANKS
00: -
The present invention discloses an automated water tank cleaning system that eliminates the need for manual cleaning. The system comprises a circular wiper with a rubber pad attached to a motor, a control system for managing the cleaning process, an electrically operated drain valve, and a doser for adding chlorine to the water. The system operates by rotating the wiper to scrub the tank walls, adding chlorine for disinfection, and draining the dirty water. This automated process ensures regular and efficient cleaning of water tanks, improving water quality and hygiene.



21: 2024/09103. 22: 2024/11/28. 43: 2025/06/05
51: C02F; A61P
71: SR UNIVERSITY
72: CHAKRADHAR ADUPA, YALAMANCHI SRI HARSHA, GANDHAM SATHWIKA, JUNNUTHULA SWATHI, GOPALAPURAPU KAMAL
33: IN 31: 202441068270 32: 2024-09-10
54: METHOD AND SYSTEM FOR ENHANCED SKIN CANCER CLASSIFICATION USING DEEP LEARNING WITH COMPARATIVE ANALYSIS
00: -
The present invention discloses a method and system for improving skin cancer classification accuracy using deep learning techniques. The system addresses the challenges of classifying skin lesions as benign or malignant by combining the strengths of multiple deep learning models and conducting a comparative analysis to select the most effective model. The system utilizes a pre-processing step to enhance image quality, employs VGG-19 and Inception deep learning models for training and testing, and evaluates their performance through comparative analysis. The model with the highest accuracy is then used for final classification, improving the overall accuracy and reliability of skin cancer detection.

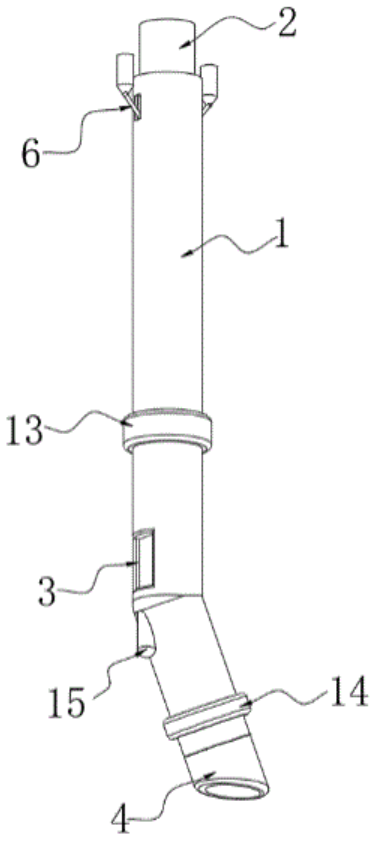


21: 2024/09104. 22: 2024/11/28. 43: 2025/06/05
51: A61H
71: SR UNIVERSITY
72: B. GIRIRAJAN, PINNINTI RAJESHWAR REDDY, VEMULA RAMU, ETOORI MANEESHWARI, SABEER SHAIK, PEDDI MEGHANA, THOTA DHANUSH
33: IN 31: 202441068269 32: 2024-09-10
54: A SYSTEM FOR MONITORING PARALYSIS PATIENT AND METHOD THEREOF
00: -
The present invention relates to a motion-based communication system designed for paralysis patients, enabling them to effectively communicate their needs to caregivers. The system comprises motion detection sensors attached to the patient's fingers, which detect finger movements and send signals to a microcontroller. The microcontroller processes these movements, maps them to specific voltage ranges, and assigns corresponding predefined messages. A communication module wirelessly transmits these messages to the caregiver's mobile app or a speaker. In case of emergencies, such as falls or abnormal pulse rates, a critical condition monitoring module triggers a buzzer alert system to immediately notify the caregiver. The device is powered by a rechargeable battery, offering continuous operation. This system enhances the quality of life for paralysis patients by providing reliable and secure communication, remote monitoring, and real-time emergency alerts.

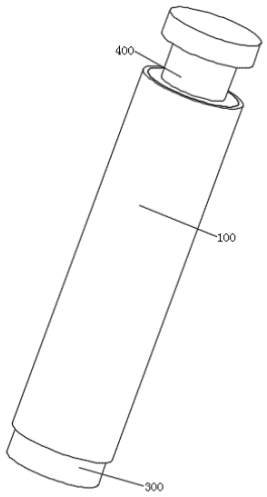


21: 2024/09155. 22: 2024/11/29. 43: 2025/06/06
51: A61M
71: Hunan Cancer Hospital
72: Li GAN, Hao PENG, Jianghong ZHAO, Shuangfa ZOU
33: CN 31: 2024115698522 32: 2024-11-05
54: VISUAL ONE LUNG VENTILATION CATHETER
00: -
The invention discloses a visual one lung ventilation catheter, which relates to the technical field of medical equipment, and comprises: a catheter body, which is used for ventilation work of the entire ventilation catheter; and also comprises: a standard joint, which is fixed at one end of the top of the catheter body; a left exhaust hole, which is arranged on one side surface of the bottom of the catheter body, and the left exhaust hole is used to connect the left lung trachea; a right exhaust hole, which is arranged on one end of the bottom of the catheter body, and the right exhaust hole is used to connect the right lung trachea; the single-lung ventilation catheter of this scheme is designed as a single-cavity structure, so the diameter of the pipeline is relatively thin, which can reduce the damage to the patient's glottis and nearby tissues during the intubation process, and at the same time, the right lung end of the catheter is designed as a round shield structure with the tip facing inward, which is matched with the oblique mouth design and the edge rounding, so as to further reduce the sharp damage of the catheter to the surrounding tissues during the insertion and use process, thereby

reducing the occurrence of perioperative complications such as hoarseness and sore throat.

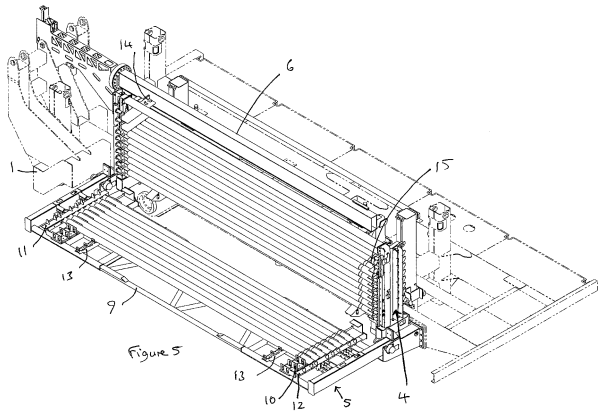


21: 2024/09156. 22: 2024/11/29. 43: 2025/06/06
51: A61B
71: Hunan Cancer Hospital
72: Hong CHEN, Meijun OU, Limin QING, Wenxiao HUANG, Hailin ZHANG, Xiaohua SONG, Keying JIANG
33: CN 31: 2024228208122 32: 2024-11-19
54: VISUAL ORAL FLAP POSTOPERATIVE BLOOD FLOW DETECTION PEN
00: -
The present invention discloses a visual oral flap postoperative blood flow detection pen, which relates to the technical field of medical equipment, and comprises: an outer shell; an adjusting groove, which is arranged at the inner upper end of the outer shell; a pressing component, which is detachably fixed at the bottom opening of the outer shell; an adjusting component, which is slidable up and down and inserted into the inner part of the outer shell; a guide ball, which is fixed on the outer side of the adjusting component and slides along the adjusting groove; a probe component, which passes through the pressing component upward and is inserted into the inner part of the adjusting component; a force storage component, which is installed in the inner part of the outer shell and stores force when the adjusting component descends; the present invention can limit the descending height of the pressing component through the matching arrangement of the guide ball and the adjusting groove , so as to limit the disassembly, replacement and use of the probe component , and avoid the probe component falling due to excessive pressing force when the probe component is in use.

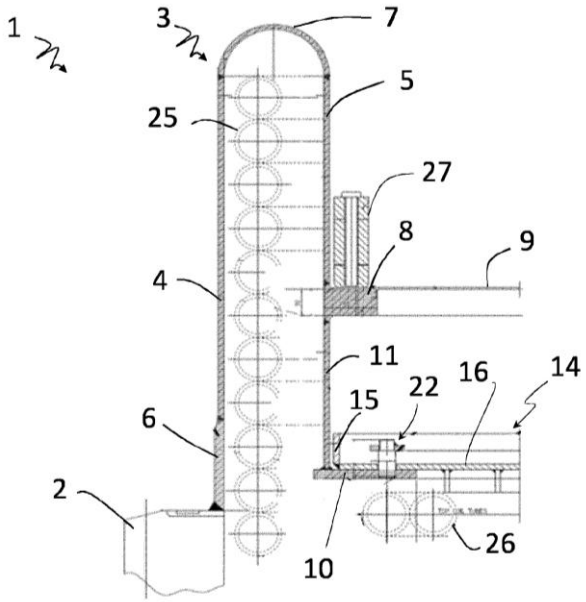


21: 2024/09181. 22: 2024/11/29. 43: 2025/06/06
51: E21B
71: TRIBE TECHNOLOGY GROUP LIMITED
72: SMITH, Ivan, GORIJALA, Sirish, KING, James Charles Osborne, SCOTT, Lee
33: GB 31: 2208007.1 32: 2022-05-31
54: ROD HANDLING SYSTEM FOR A DRILLING RIG
00: -
A rod handling system for a drilling rig comprising a rod storage bin having an elongate axis and incorporating a plurality of vertically stacked rod supports, each rod support being adapted to hold a respective row of rods in side by side relationship in a substantially horizontally extending storage configuration wherein said rods are aligned with said elongate axis; a rod loader having a plurality of rod holders adapted to carry a plurality of rods in side by side relationship aligned with said elongate axis, the rod loader being moveable between a loading position, wherein a rod can be placed into or removed from each rod holder, and a transfer

position, wherein rods are able to be transferred between each rod holder and a respective rod support of the rod storage bin; a rod lifter moveable between a lowered position and a raised position whereby the rod lifter is adapted to lift rods between said substantially horizontally extending storage configuration and a raised configuration to present rods to a drilling head; and a rod transfer assembly adapted to transfer individual rods between selected rod supports of the rod storage bin and the rod lifter.

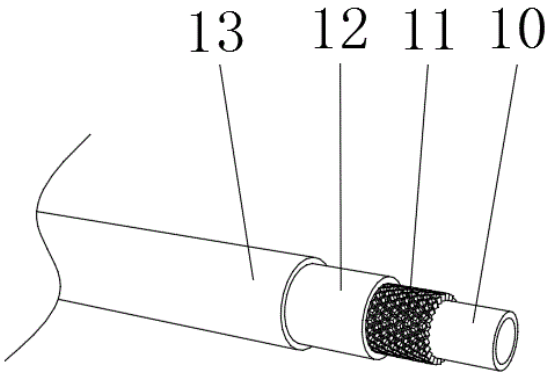


21: 2024/09182. 22: 2024/11/29. 43: 2025/06/06
51: B01D; B01J; C01B
71: CASALE SA
72: PANZERI, Nicola, REDAELLI, Luca, PEDON, Flavio
33: EP 31: 22176973.0 32: 2022-06-02
54: CATALYST SUPPORT SYSTEM FOR AMMONIA OXIDATION BURNERS
00: -
A catalyst support system (1) for an ammonia oxidation burner (2), comprising a catalytic gauze for oxidation of ammonia; a basket (14) connected to a supporting ring (10) for containing an inert and/or a catalyst for removing N2O from a gaseous effluent of said catalytic gauze (9); said basket (14) has a modular structure including a plurality of modules, wherein each module includes a gas-permeable surface (16) and a supporting frame (15), wherein each module is connected to adjacent modules by connections adapted to allow a limited displacement between modules, wherein only outer modules forming the periphery of the basket are connected to said supporting ring (10).

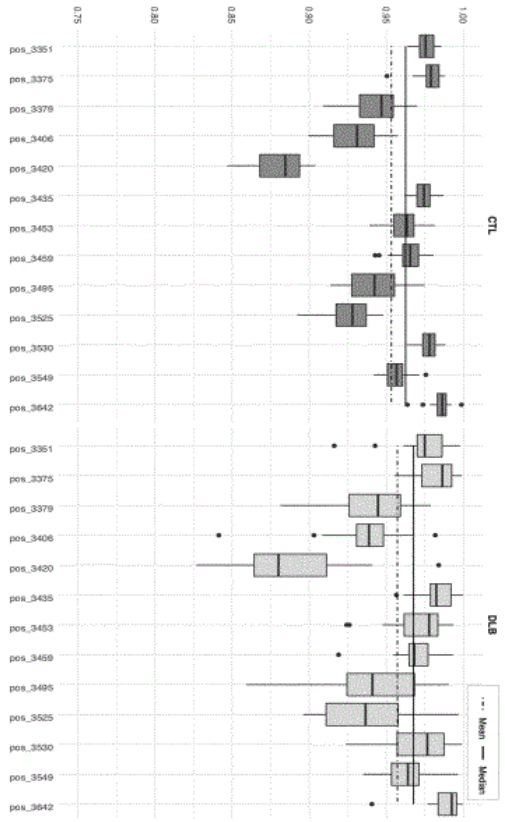


21: 2024/09185. 22: 2024/11/29. 43: 2025/06/25
51: A63B
71: HUNAN JIANLEMEI SPORTING GOODS CO., LTD
72: DAI, Yongqiu
33: CN 31: 202411453957.1 32: 2024-10-17
54: RUBBER TUBE FOR PHYSICAL FITNESS
00: -
The present invention relates to the technical field of exercise equipment, discloses a rubber tube for physical fitness, comprising a flexible inner tube, a beehive flexible screen cloth is provided at an outer surface of the flexible inner tube, a latex fiber tube is provided at an outer surface of the beehive flexible screen cloth, a wear and erosion resistant outer sleeve is provided at an outer surface of the latex fiber tubes, by innovative material selection and structural design, durability and safety of the product is significantly improved, the usage of the flexible inner tube ensures that the rubber tube has good resilience and tensile strength in bearing pulling and pressure, use of the beehive flexible screen cloth improves to a further extent the structural stability and cracking resistance, user injury due to breakage of the rubber tube is avoided, by providing the fiber tube, the entire durability is improved, with the protection of the wear and erosion resistant outer sleeve, the usage life of the rubber tube is effectively prolonged, the maintenance and replacement frequency is reduced, the problem that conventional rubber tubes are liable to be damaged and do not

have good durability is addressed, the dual demands on functionality and safety of modern body building lovers are satisfied, and the present invention has good utility value and commercial prospect.

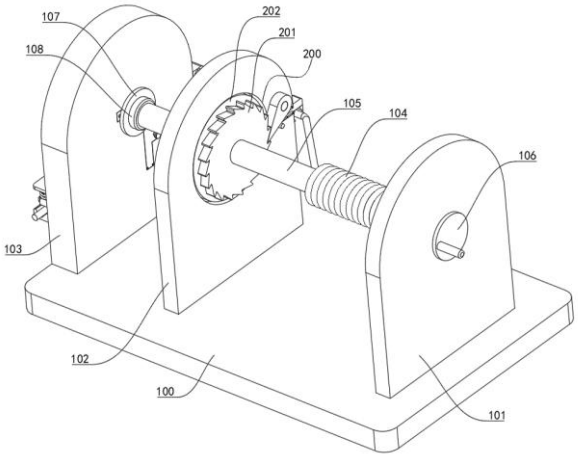


21: 2024/09186. 22: 2024/11/29. 43: 2025/06/10
51: C12Q
71: ADMIT THERAPEUTICS SL
72: BARRACHINA CASTILLO, Marta, MOSQUERA MAYO, Jose Luis, BLANCH LOZANO, Marta
33: EP 31: 22382637.1 32: 2022-07-04
54: METHOD FOR IDENTIFYING DEMENTIA WITH LEWY BODIES IN A SUBJECT
00: -
It is provided a method for identifying dementia with Lewy bodies (DLB) in a subject, comprising determining in a sample of the subject comprising mitochondrial DNA, the methylation pattern in the D-loop region and/or ND1 gene of the mitochondrial DNA. Further, a classification model, oligonucleotides and kits to perform the method are also provided.

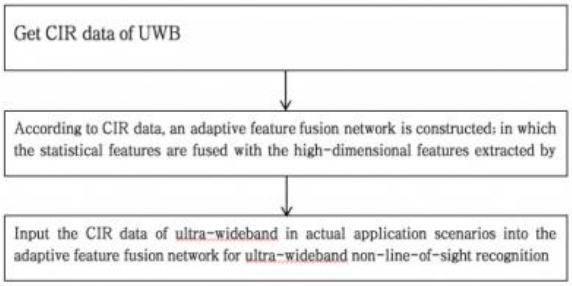


21: 2024/09197. 22: 2024/12/02. 43: 2025/06/13
51: A61B
71: QuZhou People's Hospital (The Central Hospital Of Qu Zhou)
72: Yu Chun, Zhou Chun, Yan Jingyi
54: A TRACTION DEVICE FOR MINIMALLY INVASIVE TREATMENT OF GASTROINTESTINAL TUMORS
00: -
The present invention discloses a traction device for minimally invasive treatment of gastrointestinal tumors, which relates to the technical field of medical auxiliary devices. The device comprises a bottom plate, and a top of the bottom plate is vertically fixed with a first side plate, a limit vertical plate, and a second side plate. The limit vertical plate is arranged between the first side plate and the second side plate, and an installation groove is opened on the side wall of the second side plate near the limit vertical plate. An installation shaft is movable in the installation groove, and a connecting plate is fixed at the end of the installation shaft. The connecting plate is equipped with a winding shaft that rotates through a bearing, and the winding shaft is wrapped with a traction wire. The side wall of the second side plate

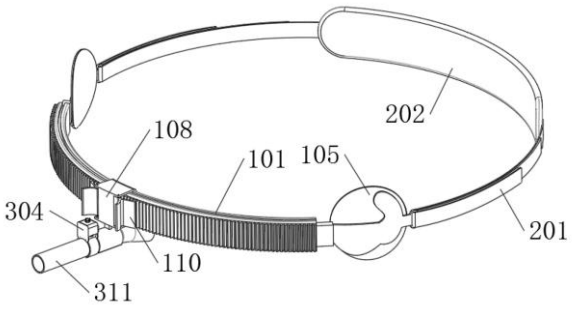
near the limit vertical plate is equipped with an adjustment mechanism that can adjust the tension of the traction wire. By setting the adjustment mechanism, the tension of the traction wire can be adjusted. Accurate control is required to adapt to different surgical needs and patient conditions by setting up guidance mechanisms, Ensure that it maintains the correct path before entering the patient's body, reduce patient pain, save the physical energy of medical staff, and improve the success rate of minimally invasive surgery for gastrointestinal tumors.



21: 2024/09206. 22: 2024/12/02. 43: 2025/06/10
51: G06K
71: Peking University
72: Zhang Guangyuan, Fan Yonglei
33: CN 31: 2024115281478 32: 2024-10-30
54: A METHOD, DEVICE, SYSTEM, AND STORAGE MEDIUM FOR IDENTIFYING ULTRA-WIDEBAND (UWB) NON-LINE-OF-SIGHT (NLOS) CONDITIONS
00: -
The invention discloses a method, device, system, and storage medium for identifying ultra-wideband (UWB) non-line-of-sight (NLOS). The steps are as follows: Step S1: Acquire ultra-wideband channel impulse response (CIR) data. Step S2: Based on the CIR data, construct an adaptive feature fusion network. This involves integrating statistical features with high-dimensional features extracted by a convolutional neural network (CNN) to form the adaptive feature fusion network. Step S3: Input the ultra-wideband CIR data from the actual application scenario into the adaptive feature fusion network for ultra-wideband non-line-of-sight identification. By employing the technical solutions of this invention, the integration of numerical statistical properties and high-dimensional features is achieved, enabling effective identification of NLOS situations.



21: 2024/09207. 22: 2024/12/02. 43: 2025/06/10
51: A61M
71: Haikou People's Hospital (Affiliated Haikou Hospital of Xiangya Medical College, Central South University)
72: Haiyan WU, Weixue ZHU, Chanjuan CAI, Ying XIA, Zhenhua SONG
33: CN 31: 202411142361X 32: 2024-08-20
54: ENDOTRACHEAL TUBE FIXATION DEVICE
00: -
The present disclosure relates to an endotracheal tube fixation device. The endotracheal tube fixation device, comprising a fixing strip, wherein limiting grooves are formed in a top and a bottom of the fixing strip, a sliding shell is slidably sleeved outside the fixing strip. In the present disclosure, by adjusting the position of the intubation or tracheal tube in the oral cavity, it facilitates healthcare professionals to clean other areas within the patient's mouth. The tracheal tube and intubation are moved along with the sliding shell through its left and right movement, eliminating the need to remove the entire fixation device and replace it with a new one during oral cavity cleaning. With the torsion spring connected to the pinching block and sleeved on both ends of the rotating shaft, the pinching block rotates back under the action of the torsion spring when released by the finger.

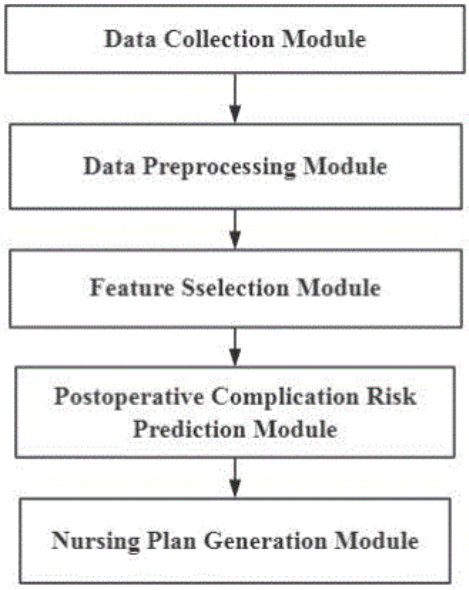


21: 2024/09208. 22: 2024/12/02. 43: 2025/06/10
51: A61B
71: Zhongshan City People's Hospital
72: Defang Li, Xing Zhu, Meichan Ye, Dongxia Du, Longjiao Zou, Chaoyang Gong, Decheng Deng

54: KIDNEY TRANSPLANT PATIENT POSTOPERATIVE MANAGEMENT SYSTEM FOR NURSING ASSISTANCE

00: -

A kidney transplant patient postoperative management system for nursing assistance, which belongs to the technical field of intelligent nursing assistance, comprising a data collection module, a data preprocessing module, a feature selection module, a postoperative complication risk prediction module, and a nursing plan generation module; this invention adopts the chimpanzee algorithm for feature selection, which can effectively screen out the features that have the greatest impact on postoperative complications, reduce the impact of noise, and enable the model to focus on processing important information, thereby improving the subsequent performance and stability of postoperative complication risk prediction; the invention creatively uses the long short-term memory extreme gradient boosting model to predict the risk of postoperative complications, effectively captures the time series characteristics in the data through the long short-term memory subnet, and on this basis, effectively processes the complex interactive features through the extreme gradient boosting subnet, improves the accuracy of model prediction, and thus improves the postoperative management effect of renal transplant patients.



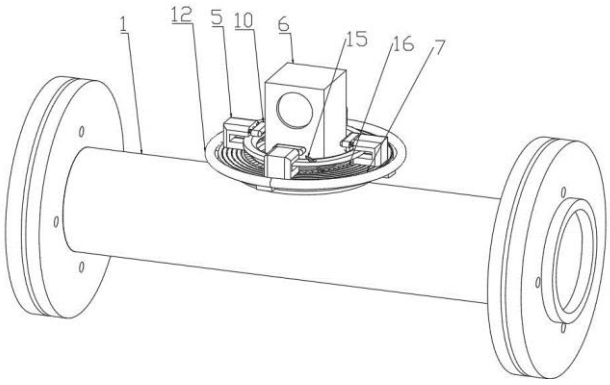
21: 2024/09248. 22: 2024/12/03. 43: 2025/06/11
51: G01F
71: Tianjin Sino-German University of Applied Sciences
72: Siqi Han

54: AN ULTRASONIC FLOWMETER WITH EASY INSTALLATION

00: -

The invention relates to the technical field of ultrasonic flowmeter installation, and relates to an ultrasonic flowmeter with easy installation. It comprises a tube body, the top of the tube body is fixed with a bottom plate, the top of the bottom plate is fixed with a placing plate, the top of the bottom plate is connected with a rotating disc, the top of the rotating disc is connected with a movable block, the top of the placing plate is equipped with a flowmeter body; The beneficial effects are: The positioning function is realized through the positioning plate fixed on the bottom plate and the ring buckle design at the bottom of the flowmeter body. Then, the function of the fixed flowmeter is realized through the connection between the rotating plate and the bottom plate. The limit switch will be stuck and fixed at the bottom of the rack through the combination of the limit switch and the fixed rack to prevent the rotation of the rotating plate from causing the fixed device to loose, and the function of tightening the flowmeter is realized. The equipment is simple in structure, easy to operate, can achieve multi-

directional display, and simple disassembly, saving time and labor and high practicability.

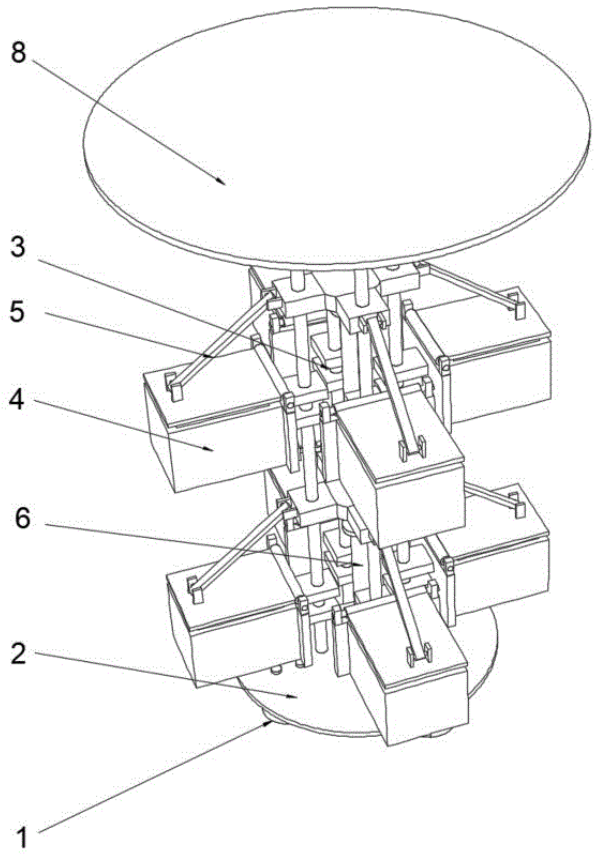


21: 2024/09250. 22: 2024/12/03. 43: 2025/06/11
51: B64F
71: Jinggangshan University
72: Qing Fu

54: A MULTI-TERRAIN MOUNTED UNMANNED AERIAL VEHICLE LANDING PLATFORM AND AN APPLICATION METHOD THEREOF

00: -

The invention provides a multi-terrain mounted unmanned aerial vehicle landing platform and an application method thereof, belonging to the unmanned aerial vehicle technical field, and solves the problem that the existing unmanned aerial vehicle landing platform is not suitable for installation on complex terrain. This multi-terrain mounted unmanned aerial vehicle landing platform includes a fixed supporting component, a supporting platform, a moving component, a landing platform component, a linkage component, a guide shaft and a power component, and the guide shaft and power component are fixed on the supporting platform; The fixed supporting component is fixed on the ground; The bottom of the moving component is connected with the power component, and the side of the moving component is sliding connected with the guide shaft; The landing platform component is fixed on the guide shaft; The top of the landing platform component is connected to the moving component by a linkage component and constitutes a transmission pair to open or close the moving component during its movement. The invention realizes the unmanned aerial vehicle landing platform to be smoothly installed on complex terrain and a variety of terrain.



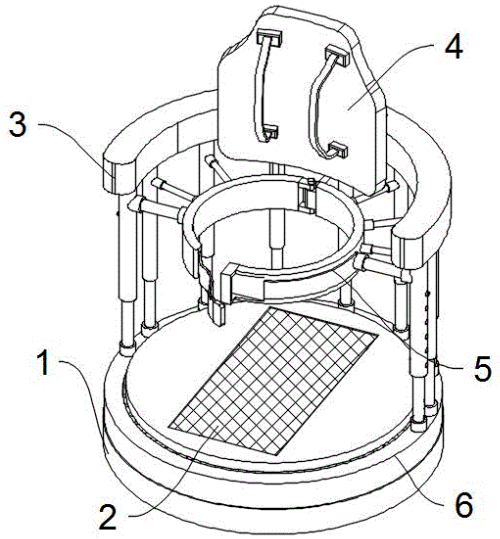
21: 2024/09251. 22: 2024/12/03. 43: 2025/06/11
51: F16M
71: Jinggangshan University
72: Qing Fu

54: A HUMAN BODY LIMIT PROTECTION DEVICE FOR VIRTUAL REALITY EQUIPMENT AND AN APPLICATION METHOD THEREOF

00: -

The invention discloses a human body limit movable device for virtual reality equipment and an application method thereof, belonging to the field of virtual reality equipment, and solves the problem that the existing human body limit movable device cannot adapt to the user's rotation angle, including a base, a moving belt and a protecting plate. The surface of the base is equipped with a moving belt with a rotating angle. The side side of the moving belt is installed with a protecting plate providing protection for the user, and the side side of the protecting plate is fixed with a bonding mechanism fitted with the back of the user. In the invention, the bonding mechanism and a rotating mechanism are arranged to push the sensor to expand and tilt according to the rotation size of the user's own angle, and the

motor adjusts its own speed and rotation number according to the data detected by the sensor. It can assist the user to completely turn this operation, and ensure that the moving belt is consistent with the direction of the user, to ensure the safety of the device when using.

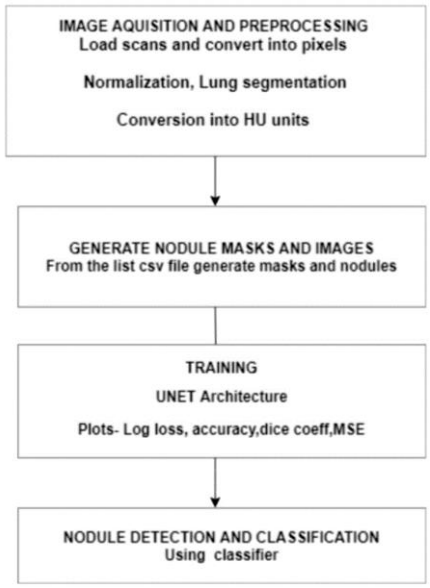


21: 2024/09252. 22: 2024/12/03. 43: 2025/06/11
51: A61B
71: Aparna Madhavrao Harale, Dr. Sonal Kirankumar Jagtap, Preeti Kailas Suryawanshi, Dr. Vinayak K Bairagi
72: Aparna Madhavrao Harale, Dr. Sonal Kirankumar Jagtap, Preeti Kailas Suryawanshi, Dr. Vinayak K Bairagi

54: AUTOMATED COMPUTER-AIDED DETECTION SYSTEM FOR PULMONARY NODULE DETECTION AND CLASSIFICATION IN LUNG CANCER DIAGNOSIS

00: -

Lung cancer is a leading cause of cancer-related mortality worldwide, primarily due to late diagnosis. Early detection, particularly of pulmonary nodules, is crucial in improving prognosis and enabling timely interventions. The present invention addresses these technical issues by employing state-of-the-art deep learning models, including YOLOv5, Faster R-CNN, and an improved variant, iYOLOv5, designed specifically to enhance detection accuracy, speed, and classification precision. By leveraging hybrid architectures combining convolutional neural networks (CNN) and support vector machines (SVM), the proposed system provides improved diagnostic capabilities and can serve as an essential tool in the early detection and management of lung cancer.



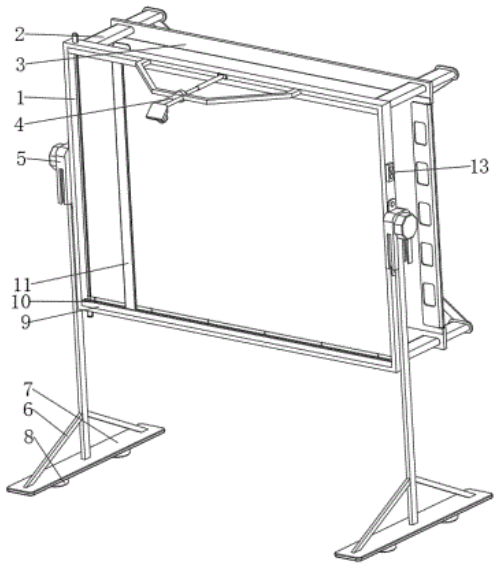
21: 2024/09272. 22: 2024/12/03. 43: 2025/06/13
51: C22C
71: Chongqing Business Vocational College
72: Siwei YUE, Xiaojun XU, Donghong XIONG, Ping SUN, Juhua XU, Kaiping LU

54: DRAWING DEVICE FOR MATHEMATICAL MODELING AND USING METHOD THEREOF

00: -

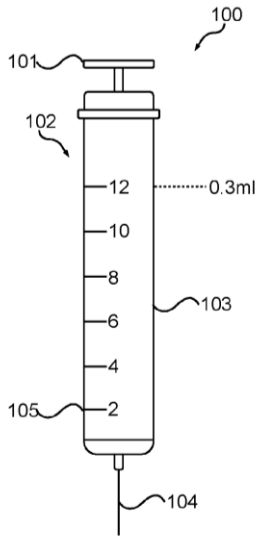
The present invention discloses a drawing device for mathematical modeling and a using method thereof, which relates to the technical field of mathematical modeling device, including: a drawing component, the drawing component includes a drawing frame, the front surface of the drawing frame is provided with a mounting groove. In the present invention, the electrostatic paste assists the paper to adsorb on its surface through its own electrostatic adsorption force, the two sides of the drawing paper can be tightly clamped by the splint through the magnetic adsorption between the magnetic plate and the magnetic block, so as to complete the positioning of the drawing paper, after the basic drawing is drawn, the transparent drawing board is pulled outward by pulling the iron handle, the transparent drawing board is rolled up in the initial state, the coil spring piece is also in the state of complete expansion when the transparent drawing board is pulled out, it is convenient for drawing and not necessary to draw the same basic drawing repeatedly, after each

drawing is completed, the camera is started to shoot the modeling drawings, so as to realize the storage of the drawings.



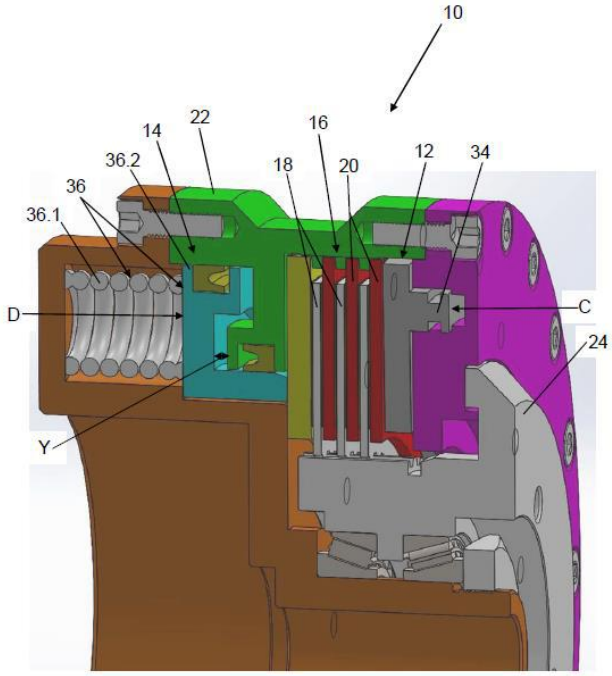
21: 2024/09280. 22: 2024/12/03. 43: 2025/06/12
51: A61K; A61M; C07K; A61Q
71: WEBB, Thomas
72: WEBB, Thomas
33: AU 31: 2022901550 32: 2022-06-07
54: A BOTULINUM TOXIN SYRINGE
00: -

A botulinum toxin syringe having a barrel has volumetric marking graduations scaled at four units per 0.1 mL. These volumetric marking graduations allow for ease of unit conversion and can reduce the likelihood of overdosing or under dosing of botulinum toxin. The syringe may further comprise further volumetric marking graduations configured to be interchangeably used for administration of insulin or botulinum toxin. The syringe may further comprise further volumetric marking graduations configured for interchangeably use for administration of different types of botulinum toxin.



21: 2024/09293. 22: 2024/12/04. 43: 2025/07/10
51: B60L; B60T; B61H; H02P
71: PAULUS JOHANNES AUCAMP
72: PAULUS JOHANNES AUCAMP
33: ZA 31: 2023/11441 32: 2023-12-13
54: A BRAKE SYSTEM FOR HEAVY DUTY VEHICLES HAVING BOTH A SERVICE BRAKE AND FAIL-SAFE BRAKE
00: -

The invention relates to a brake system comprising a service brake system and an independently actuated fail-safe brake system for use on heavy-duty vehicles. The brake system comprises a service brake system including first actuating means that actuates a brake unit and travels for a preset first travel distance; and a fail-safe brake system including a second actuating means that actuates the brake unit and travels for a preset second travel distance, the fail-safe brake system being activated and deactivated independently of the service brake system of the vehicle thereby allowing the fail-safe brake system to function independently of the service brake system. The first travel distance of the first actuating means is dependent upon a preset percentage of wear on the brake unit; and the first travel distance of the first actuating means is always less than the second travel distance of the second actuating means.

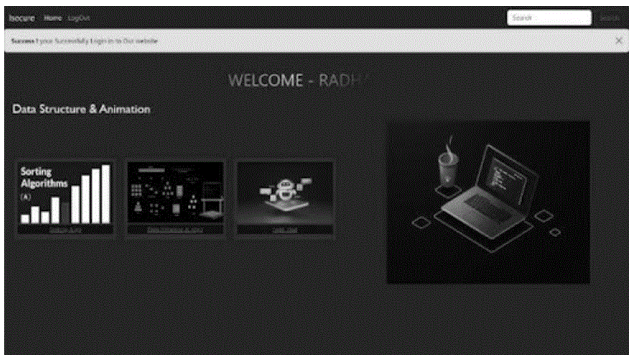


21: 2024/09335. 22: 2024/12/05. 43: 2025/06/24
51: H02J
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: JOSHI, Anita, ANSARI, Zayd, HARAD, Anuj, SASANE, Anuj, MAHESKAR, Anshu, SHIRKE, Anubhav
54: A SIMULATION OF MICROGRID SYSTEM USING MICROCONTROLLER
00: -
The present invention relates to a simulation of microgrid system using microcontroller. Undoubtedly, one of humanity's greatest achievements is electricity. It has made our life significantly easier. Almost all of our everyday chores are made easier because of electricity. Our house is filled with electric appliances for example, television, fan, refrigerator, oven, etc. we cannot imagine our life without electricity. However, production of electricity causes harm to our environment. Therefore our present invention discloses a device that can successfully switch between multiple sources of electricity that are generated by renewable methods.

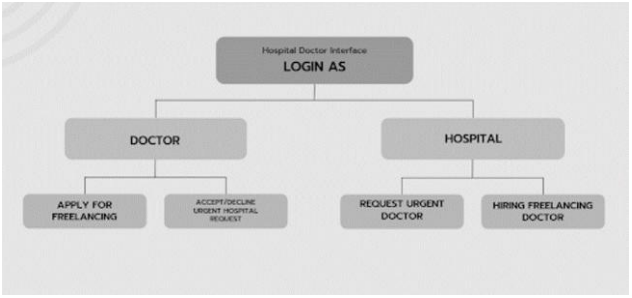
21: 2024/09336. 22: 2024/12/05. 43: 2025/06/26
51: G01S
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: DESHAPANDE, Arati, WAGLE, Manas, WAKODE, Nrupal, WAKCHAURE, Shrushti, WAKODE, Nisha, WALSEPATIL, Aditya
54: A JAMMING UAV SYSTEM
00: -
The present invention relates to a jamming UAV system. The Jamming UAV system is basically plane where a nord mcu microcontroller has been fixed. A UAV is an unmanned aerial vechicle The Nord MCU is a microcontroller which can jam WiFi networks as well as create several duplicate WiFi networks which cannot be connected. Jamming UAV can be used for security purpose where we can fly the plane and jam the networks of that area

21: 2024/09337. 22: 2024/12/05. 43: 2025/06/26
51: G06F
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: DESHAPANDE, Arati, WAGHMARE, Mayur, WAGHMODE, Mansi, WAGHMODE, Onkar, WAGHMODE, Prashant, WAGHMODE, Shailesh
54: A USER-INTERACTIVE ANIMATION SYSTEM FOR VISUALIZING DATA STRUCTURES
00: -
The present invention relates to a user-interactive animation system for visualizing data structures. Data structures and algorithms are fundamental concepts of computer science and information technology and are highly important for project work relating to data storage and operations. Despite the high gravity of Data structures and algorithms, students often find it difficult to learn, understand and grasp these concepts. A system that will help students to understand and visualize data structures and algorithms is the need of an hour. The present invention discloses on developing user-interactive

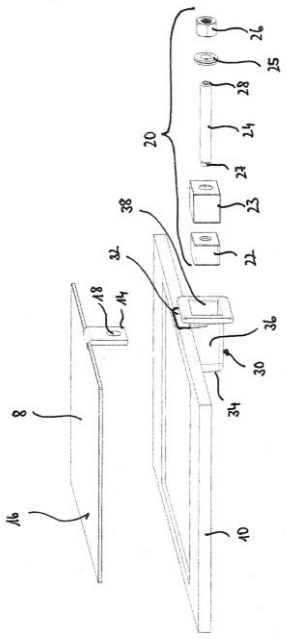
animations that will help users to clearly understand and imagine the step-by-step proceedings of every operation.



21: 2024/09338. 22: 2024/12/05. 43: 2025/06/25
51: G06Q
71: VISHWAKARMA INSTITUTE OF TECHNOLOGY
72: DESHAPANDE, Arati, YADAV, Aditya, YADAV, Abhishek, YADAV, Ishaan, YAMKANMARDI, Shriraj, YANGALE, Vitthal
54: A SYSTEM FOR CONNECTING HOSPITALS WITH DOCTORS
00: -
The present invention relates to a system for connecting hospitals with doctors. The proposed system addresses the need of medical professionals; hospitals often encounter challenges in finding qualified doctors for urgent placements, specialized medical procedures and surgeries. The proposed system connects with highly qualified and skilled doctors who are freelancing or available for immediate surgeries.

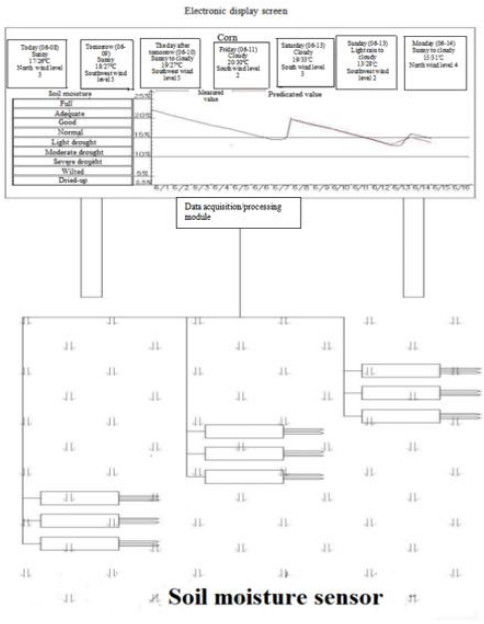


21: 2024/09339. 22: 2024/12/04. 43: 2025/06/25
51: H01M
71: POWERCELL SWEDEN AB
72: VELÉN, Robin
33: SE 31: 2250925-1 32: 2022-07-21
54: POWER OUTLET ASSEMBLY FOR ELECTRIC STACK, PARTICULARLY FUEL CELL STACK
00: -
Disclosed is an electric cell stack assembly (100), particularly fuel cell stack assembly (100), comprising at least an electric energy generating cell stack body (2) with a plurality of stacked unit cells, wherein preferably each unit cell is a unit fuel cell comprising a bipolar plate (4) and a membrane electrode assembly (4), a first and second terminal plate (8) sandwiching the cell stack body (2), which are adapted to collect the electric energy generated by the cell stack body (2), wherein each terminal plate (8) comprises a power output terminal (14), which is connectable to an external connector, and tightening means (20) which are adapted to tighten the external connector to the power output terminal (14), for providing an electric connection between the external connector and the power output terminal (14), wherein the tightening means (20) comprise at least a first nut (22) and a threaded element (24) wherein the threaded element (24) is adapted to be screwed into the first nut (22) with a first end (27), and wherein the first nut (22) is adapted to provide a tightening stop (40) for the threaded element (24).

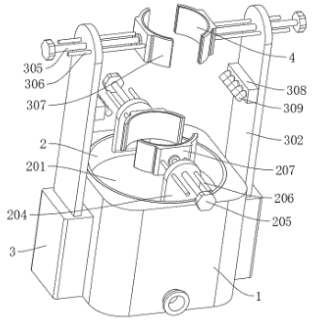


21: 2024/09377. 22: 2024/12/09. 43: 2025/06/25
51: A06L; G06Q
71: INSTITUTE OF PASTORAL HYDRAULIC RESEARCH, MWR(IPHR)
72: GAO, Tianming, ZHANG, Jing, HAN, Rui, YANG, Shuai, CHEN, Yuxin, ZHOU, Xu, LIU, Wei, REN,

Meili, ZHANG, Weiming, WANG, Xin, GUO, Haiwei, LU, Yuyang
33: CN 31: 2024101501735 32: 2024-02-02
54: VISUAL IRRIGATION DECISION-MAKING AUXILIARY SYSTEM BASED ON WEATHER FORECASTING AND CONTROL METHOD
00: -
Disclosed is a visual irrigation decision-making auxiliary based on weather forecasting and a control method, including soil moisture sensors, used for measuring soil water content of a plot at daily intervals within n days and transmitting to a data collector; a data acquisition and processing module and an electronic display screen used for acquiring and obtaining daily weather forecast information within n days and forming a data log sheet together with the soil water content at the daily intervals. The sensors are connected to the data acquisition and processing module, which is connected to the electronic display screen; Measured daily values of soil moisture consumption, measured values of soil water content, predicted values of soil moisture consumption, predicted values of soil water content are obtained according to the daily weather forecast information within n days, the soil water content at the daily intervals and future weather forecast information.

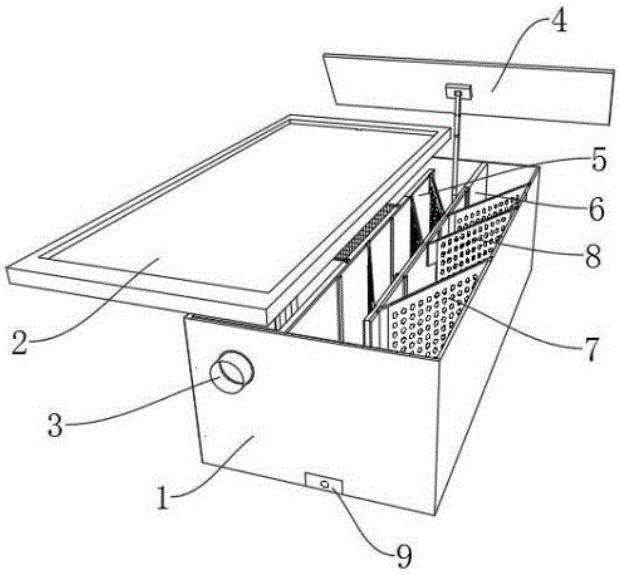


21: 2024/09378. 22: 2024/12/09. 43: 2025/06/25
51: A01G
71: Zhejiang Institute of Landscape Plants and Flowers (Zhejiang Xiaoshan Institute of Cotton and Bast Fiber Crops Research), Hangzhou Qianyi Agricultural Development Co., Ltd., Yunnan University, Zhejiang A and F University
72: AN, Xia, XU, Jiarui, JI, Qingqing, ZHU, Ziyi, AN, Xingcai, LUO, Xiahong, CHEN, Changli, LIU, Tingting, ZOU, Lina, LI, Shaocui, ZHU, Guanlin
54: CLAMPING AND FIXING DEVICE FOR TRUNK OF ACCA SELLOWIANA TREE
00: -
Disclosed in the present invention is a clamping and fixing device for a trunk of an Acca sellowiana tree, which relates to the field of auxiliary fixing devices for trees. The clamping and fixing device for a trunk of an Acca sellowiana tree includes a fixing housing and further includes: a tree root placing housing which is slidably connected in the fixing housing; and a first expansion spring fixedly connected to a middle position of an interior of the fixing housing, and an upper end of the first expansion spring being fixedly connected to a bottom of the tree root placing housing.



21: 2024/09379. 22: 2024/12/09. 43: 2025/06/27
51: C02F
71: Henan University of Urban Construction
72: GUO Xiang, WANG Gongmao, XIE Nana, WU Junfeng, LIU Kai, ZHOU Tong, LI Tong, ZHANG Chao, LIU Biao, ZHAO Weichen
54: PORTABLE TREATMENT DEVICE FOR INDOOR AQUACULTURE WASTEWATER
00: -
The invention relates to the technical field of aquaculture wastewater purification treatment, and specifically discloses a multifunctional portable device for indoor aquaculture wastewater pollution, which comprises a box and a top cover, wherein the top cover is buckled at the upper end of the box, water inlet pipes and water outlet pipes are respectively arranged at both sides of the box, and a

sedimentation area and an adsorption photocatalytic area are sequentially arranged between the water inlet pipe and the water outlet pipe; a large-caliber filter screen is arranged at intervals in the sedimentation area, close to one side of the water inlet pipe and a small-caliber filter screen, and two open photocatalytic filler grooves are arranged at intervals in the adsorption photocatalytic area. The interval between the right-opening photocatalytic filler tank and the left-opening photocatalytic filler tank is replaceable, so that the hydraulic retention time can be increased while the polluted water body passes, and the purification efficiency of photocatalytic water source micro-pollution on aquaculture wastewater is increased; it has the advantages of portability, convenience, flexibility and simplicity, and has strong practicability.

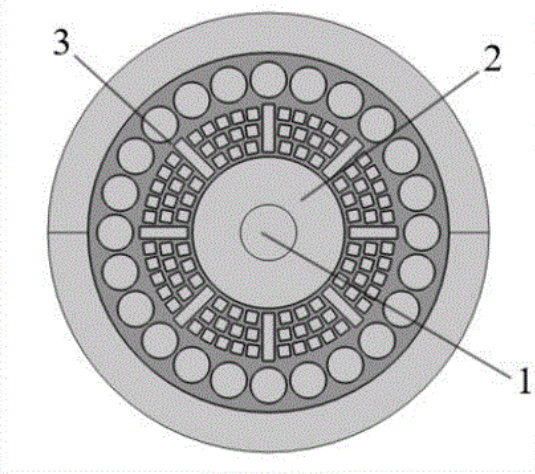


21: 2024/09381. 22: 2024/12/09. 43: 2025/06/25
51: G02B
71: Tangshan University
72: SHI, Huimin, HOU, Xihuan, WANG, Chao, WANG, Lixia, TANG, Wanwei, LIANG, Jing

54: TERAHERTZ OAM RING CORE PHOTONIC CRYSTAL FIBER

00: -

The present invention relates to a terahertz orbital angular momentum (OAM) ring core photonic crystal fiber. A structure of the fiber includes a centermost air hole, a high refractive index ring core layer and an outer cladding layer, and the high refractive index ring core layer is made of a glass crystal material. The outer cladding layer is composed of irregular air holes which include a circle of rectangular air holes arranged periodically, three circles of square air holes arranged periodically and a circle of circular air holes. In the case of no additional doping, in the fiber, an equivalent high refractive index annular region can be formed between the central air hole and the air holes of the outer cladding layer for transmitting OAM beams, which supports low-loss transmission of 18 OAM modes in a terahertz band of 180 micrometer to 240 micrometer.



21: 2024/09382. 22: 2024/12/09. 43: 2025/06/25
51: C12N; C12Q
71: Liaoning Rice Research Institute
72: ZHENG, Wenjing, MA, Zuobin, WANG, Lili, JIANG, Xiuying, ZHANG, Xue, ZHANG, Liangkun

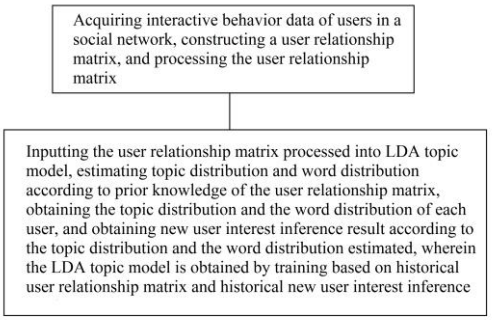
54: APPLICATION OF PRIMER PAIR FOR SCREENING FIELD NECK-BLAST-RESISTANT RICE GERMPLASM SOURCES

00: -

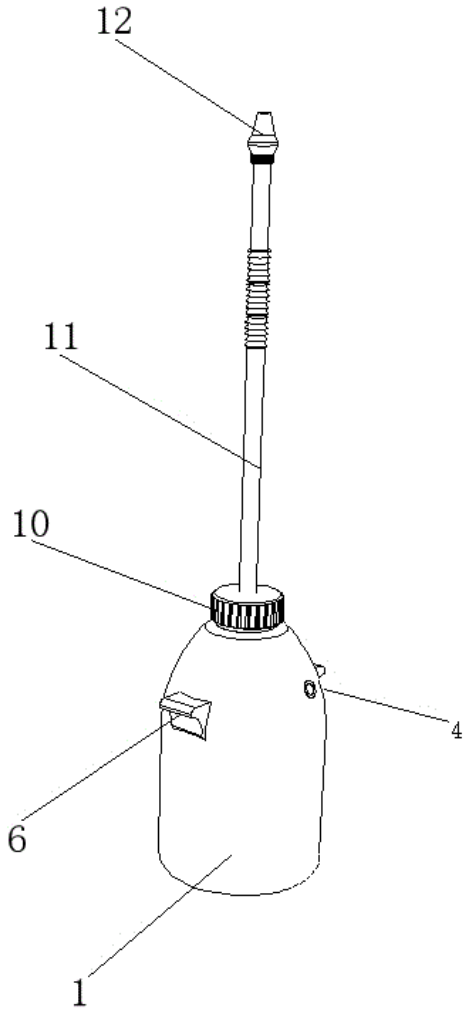
The present invention provides an application of a primer pair for screening field neck-blast-resistant rice germplasm sources and belongs to the field of molecular biology. The primer pair consists of a forward primer with a nucleotide sequence as shown in SEQ ID NO.1 and a reverse primer with a nucleotide sequence as shown in SEQ ID NO.2. The primer pair is capable of detecting the presence or absence of the Pi67(t) gene in each single plant of cross-breeding progenies, and rapidly screening the neck-blast-resistant rice germplasm sources; moreover, the primer pair is convenient, efficient, and highly accurate to improve the efficiency of

selection and breeding of disease-resistant varieties and accelerate the process of selection and breeding of rice-blast-resistant rice varieties within a whole growth duration.

21: 2024/09383. 22: 2024/12/09. 43: 2025/06/27
51: G06Q
71: Henan University of Urban Construction
72: SHI Yue
54: ANALYSIS METHOD OF SOCIAL NETWORK BEHAVIOR BASED ON VARIABLE SELECTION
00: -
The invention relates to an analysis method of social network behavior based on variable selection, includes: acquiring interactive behavior data of users in a social network, constructing a user relationship matrix, and processing the user relationship matrix; inputting the user relationship matrix processed into LDA topic model, estimating topic distribution and word distribution according to prior knowledge of the user relationship matrix, obtaining the topic distribution and the word distribution of each user, and obtaining new user interest inference result according to the topic distribution and the word distribution estimated, where the LDA topic model is obtained by training based on historical user relationship matrix and historical new user interest inference result. The improved LDA model can be used to mine users' interest preferences and interaction patterns under different themes, and can dynamically adapt to the changes of users' interests.

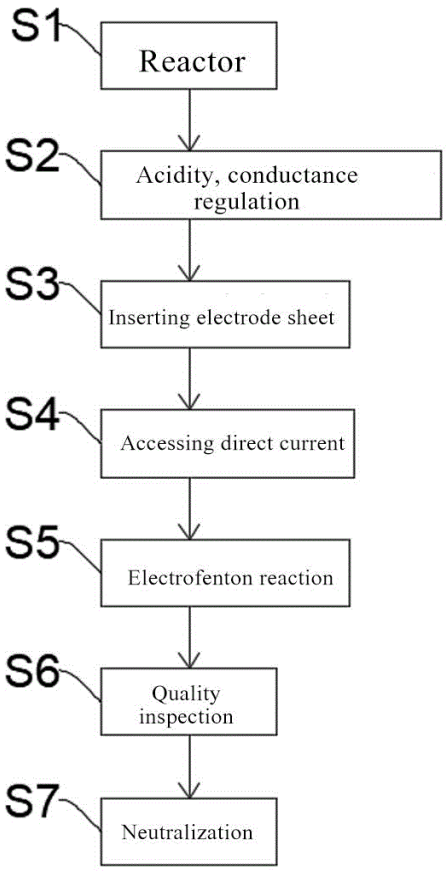


21: 2024/09384. 22: 2024/12/09. 43: 2025/06/25
51: A61H
71: Guangzhou Medical University
72: Xien Yang, Hongyan Liu
54: A NASAL CAVITY CLEANING DEVICE FOR PEDIATRIC CLINICAL DIAGNOSIS AND TREATMENT
00: -
The present invention relates to the technical field of nasal cavity cleaning devices, specifically to a nasal cavity cleaning device for pediatric clinical diagnosis and treatment, which includes a bottle body and a catheter. The upper port of the bottle body is equipped with a threaded bottle neck, and a bottle cap is screwed onto the threaded bottle neck. The catheter passes through the bottle cap and extends into the bottom of the bottle body. The catheter is fixed and sealed between the bottle cap and the bottle body, and the upper end of the catheter is equipped with a liquid outlet head. The bottle body consists of an inner rigid bottle body and an outer elastic bottle body. The outer elastic bottle body is located outside the inner rigid bottle body, and there is a sealed space between the outer elastic bottle body and the inner rigid bottle body. The outer elastic bottle body is provided with an external one-way valve that allows air to enter the interior of the outer elastic bottle body from the outside. The inner rigid bottle body is provided with an internal one-way valve that allows air to enter the interior of the inner rigid bottle body from the outer elastic bottle body. This invention effectively solves the problems existing in the prior art, providing a safer, more effective, and more comfortable nasal cavity cleaning device for pediatric patients.



21: 2024/09385. 22: 2024/12/09. 43: 2025/06/25
51: C12N
71: Xingzhi College Zhejiang Normal University
72: Xinyu Shu, Man Yu, Wangzheng Xu, Yeqian Tao
54: A METHOD FOR PROMOTING THE DIRECTIONAL CONVERSION OF HUMIC ACID TO FULVIC ACID
00: -

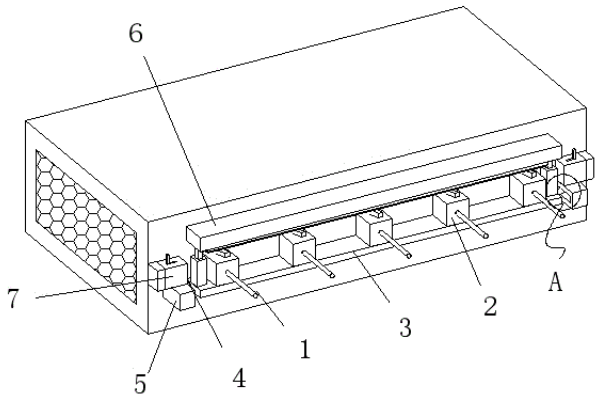
The invention relates to the technical field of resource utilization of environmental solid waste, in particular to a method for promoting the directional conversion of humic acid to fulvic acid, including the following steps: reactor, acidity and conductance regulation, insertion of electrode sheet, direct current through, electrofenton reaction, quality inspection and neutralization; The beneficial effects are as follows: The method of promoting the directional conversion of humic acid to fuluric acid is adopted by anode-DSA plate and cathode-plate acetylene black /Fe3O4 electrodes with high catalytic activity, low operating current, high current efficiency and long service life; Combining electrode method with Fenton method, the conversion efficiency of humic acid to fulvic acid was improved. Oxygen is provided through the aeration pump and reduced to H2O2 on the cathode, which does not require additional H2O2 and reduces the reaction cost.



21: 2024/09386. 22: 2024/12/09. 43: 2025/06/25
51: H01R
71: Wenzhou Medical University
72: Qiao Liu
54: A RAPID DISCONNECTION DEVICE FOR NETWORK SECURITY
00: -

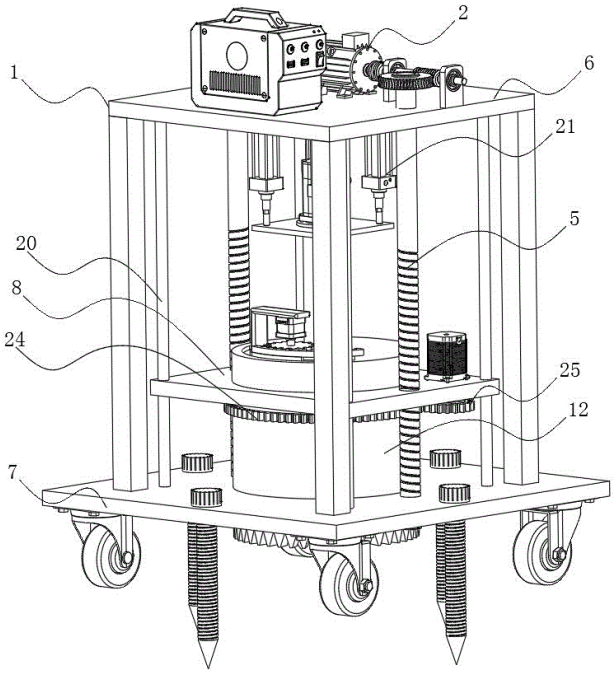
The invention discloses a rapid disconnection device for network security, belonging to the technical field of network security. It includes an outer chassis, one side of which is equipped with a crystal head. A lower clamping frame is positioned underneath the crystal head, with external sliding blocks arranged at both ends of the lower clamping frame. A sliding seat is provided on one side of the external sliding

block, and a pressing assembly is arranged above the lower clamping frame. A connection assembly is installed above the sliding seat. Through the arrangement of the pressing assembly, the invention achieves convenient rapid plugging and unplugging of the crystal head, offering a practical structure with low setup costs. The structure is user-friendly—simply pressing the crystal head and pulling it outward achieves disconnection. Additionally, the elastic component ensures a good clamping effect on the crystal head. By incorporating the connection assembly, the invention facilitates rapid assembly between the mounting plate and the outer chassis, enhancing the convenience of installing the disconnection components.



21: 2024/09387. 22: 2024/12/09. 43: 2025/06/25
51: C12N
71: Beijing Academy of Agriculture and Forestry Sciences
72: Ting LIU, Dan DONG, Huiling WU
54: A STRAIN OF STREPTOMYCES AND ITS APPLICATION IN PLANTS
00: -
A strain of Streptomyces and its application on plants is disclosed. The strain is Streptomyces barkulensis JZB05. The strain produces active metabolites with strong antibacterial activity after fermentation, the active metabolites can be used to prepare broad-spectrum biocontrol agents against plant fungal diseases for biological control of plant airborne fungal diseases.

21: 2024/09388. 22: 2024/12/09. 43: 2025/06/25
51: G01N
71: Southwest Forestry University
72: Haoliang Cheng, Jinju Ma, Wen Jiang, Weixi Ma, Zefei Tan, Weiwei Sun, Yan Wang, Qiuhua Wang
54: SURFACE SOIL SAMPLING DEVICE FOR ORGANIC CARBON CONTENT DETECTION
00: -
The present invention relates to the technical field of sampling equipment, specifically a surface soil sampling device for organic carbon content detection. The device includes: a sampling device body, which comprises a drive mechanism arranged at the top, a sampling mechanism arranged below the drive mechanism, and a leakage prevention mechanism arranged below the sampling mechanism. The drive mechanism includes a threaded rod, with the upper side of the threaded rod rotatably sleeved in a support frame and the lower side rotatably sleeved in a fixed plate. A drive platform is threadedly connected to the threaded rod. The sampling mechanism includes a sampling drill bit, with a spiral auger fixedly connected to the top of the drill bit. The spiral auger is rotatably sleeved in a material transfer tube, which has a discharge port on its outer circumference. The leakage prevention mechanism includes a closure plate. By installing a drilling ring on the sampling barrel, the device drills into the soil, thereby fixing the sampling barrel. This allows the sampling drill bit to be positioned accurately, improving stability. Additionally, the closure plate, which can be opened and closed, prevents soil samples from spilling during the lifting process after sampling.

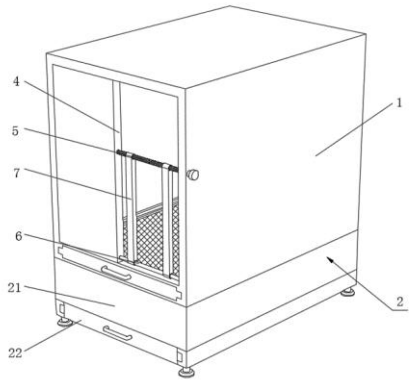


21: 2024/09392. 22: 2024/12/09. 43: 2025/06/25
51: A01K
71: Animal husbandry veterinarian service center of Yulin city
72: Ma Dong, Liu Fang, Feng Bo, Ma Liaowei, Li Wei, Liu Wang

54: LAMB INCUBATOR BOX FOR MUTTON SHEEP BREEDING

00: -

The present invention provides a cleaning assembly including a processing cabinet fixedly mounted at a bottom end of an incubator box body, mounting plates symmetrically fixed at a bottom end of the processing cabinet, a collection cabinet arranged at the bottom end of the processing cabinet and slidably connected to the mounting plate, and a processing steel plate arranged at a bottom end of the incubator box body and positioned directly above the processing cabinet. A processing hole for processing excrement is arranged at a top end of the processing steel plate. Sliding grooves are symmetrically arranged on an inner side of the processing cabinet, a connecting plate is symmetrically slidably connected to a middle part of two groups of the sliding grooves. In the present invention, the excrement of the lamb at an interior of the incubator box body through the cleaning assemly can be timely treated, reducing manual processing time of the later staff, increasing working efficiency, reducing the breeding of bacteria at the interior of the incubator box body and reducing influence of the growth of the lamb.

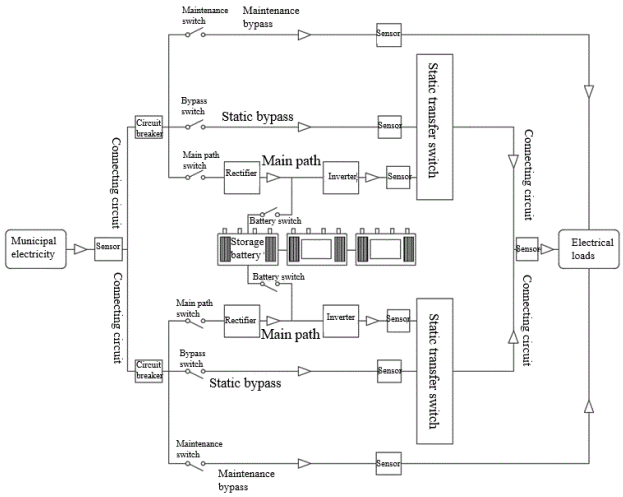


21: 2024/09393. 22: 2024/12/09. 43: 2025/06/25
51: H02J
71: Tangshan University
72: ZHANG, Yajing, ZHANG, Guoxu

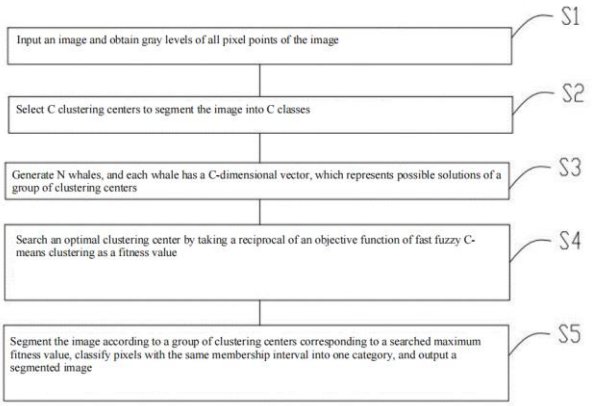
54: UNINTERRUPTIBLE POWER SUPPLY SYSTEM WITH FAULT CLEARING CAPABILITY

00: -

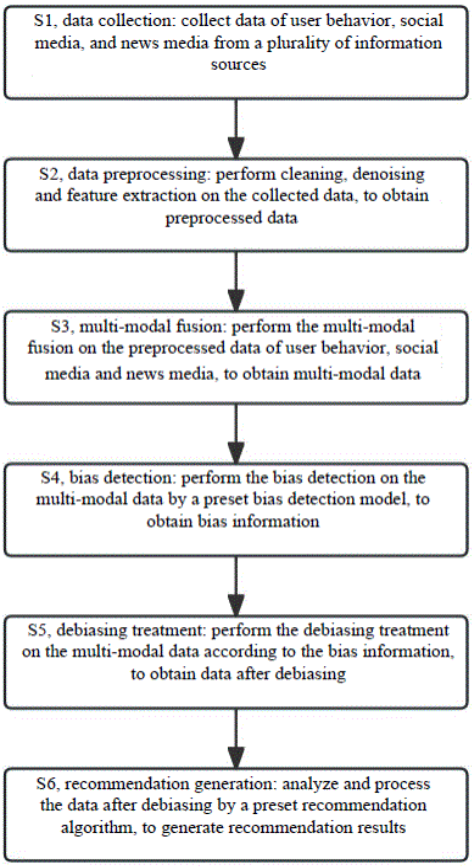
The present invention provides an uninterruptible power supply system with fault clearing capability, including a control terminal, a circuit module, a monitoring module, a fault-clearing control module and a fault alarm module. Two sets of power path mechanisms are connected in parallel between municipal electricity and electrical loads in the present invention. The electrical loads are supplied with power through the parallel power path mechanisms. The power supply switching between the two sets of power path mechanisms may be realized by using circuit breakers, which may increase the stability of the power supply process. When one of the power path mechanisms fails, the other one may be turned on promptly to ensure the continuous power supply to the electrical loads. When the parallel power path mechanisms are turned on simultaneously, the output power of the current may be increased.



21: 2024/09394. 22: 2024/12/09. 43: 2025/06/25
51: G06T
71: Tangshan University
72: ZHANG, Yajing, ZHANG, Guoxu
54: IMAGE SEGMENTATION METHOD AND SYSTEM BASED ON IMPROVED WHALE ALGORITHM
00: -
The present invention provides an image segmentation method and system based on an improved whale algorithm, and falls within the technical field of image segmentation methods. The method includes the following steps. An image is put and gray levels of all pixel points of the image are gained. C clustering centers are selected to segment the image into C classes. N whales are generated, and each whale has a C-dimensional vector, which represents possible solutions of a group of clustering centers. An optimal clustering center is researched by taking a reciprocal of an objective function of fast fuzzy C- means clustering as a fitness value. The image is segmented according to a set of clustering centers corresponding to a searched maximum fitness value, and pixels with the same membership interval are classified into one category, and a segmented image is outputted. The method can realize efficient and accurate image segmentation.



21: 2024/09395. 22: 2024/12/09. 43: 2025/07/02
51: G06F
71: Xinyu University
72: Sun Yanping, Luo Jun, Wang Chengyuan, Peng Xiaojun, Yan Zhiyong
54: MULTI-MODAL INFORMATION DEBIASING RECOMMENDATION METHOD FOR BREAKING THROUGH INFORMATION COCOONS
00: -
Disclose is a multi-modal information debiasing recommendation method for breaking through information cocoons in the present invention, relating to the field of information retrieval and recommendation, and including the following steps: S1, data collection; S2, data preprocessing; S3, multi-modal fusion; S4, bias detection; S5, debiasing treatment and S6, recommendation generation. Through the multi-modal data collection and the debiasing treatment, more diversified and objective information is provided for users, helping users break through the information cocoons and broaden their horizons; and through comprehensive consideration of user behavior, social media, news media and other multi-modal data, user needs and interests are comprehensively understood, improving the accuracy of recommendation results. The bias detection is performed on multi-modal data by a preset bias detection model, and the debiasing treatment is performed on multi-modal data according to the bias information, improving the fairness and accuracy of the recommendation system.

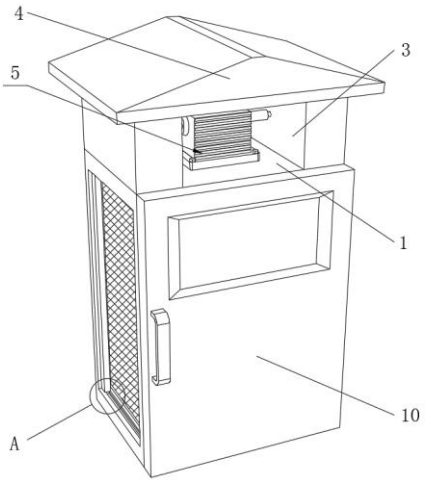


21: 2024/09396. 22: 2024/12/09. 43: 2025/07/02
51: H05K
71: Xinyu University
72: Liu Hesheng, Yu Longhai, Liu Jiamin, Zhong Yuan, Liu Gang, Sun Yanping

54: ELECTRONIC INFORMATION AUTOMATION CONTROL DEVICE

00: -

The present invention provides an electronic information automation control device including a control body, the control body is internally arranged with electrical control elements, and the control body is symmetrically fixedly mounted with mounting plates at the top of the control body, the control body has cooling fans fixedly installed symmetrically inside the control body to increase heat dissipation, the control body is symmetrically arranged with a cleaning component at two ends of the control body, the cleaning component includes dust screens located at ends of the control body, cleaning scrapers sliding on ends of the control body and cleaning the dust on the surface of the dust screens, as well as a through hole opened at the top of the control body; the present invention drives the connecting arms I and connecting arms II to rotate by a dual-axis motor, and then through the action of the active wheels, driven wheels, active bevel gears and driven bevel gears will drive the cleaning scrapers on the surface of the dust screens for reciprocating sliding, this will scrape the dust off the surface of the dust screens, reducing the blockage that affects heat dissipation, and also reducing the time for staff to manually clean up.



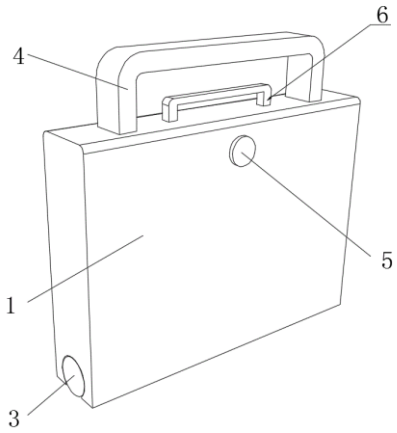
21: 2024/09397. 22: 2024/12/09. 43: 2025/07/02
51: A61H
71: The First Affiliated Hospital of Henan University of CM
72: Mao Jing, Qin Yuanmei, Zhong Yuan, Wang Juan, Zhang Yuxin
33: CN 31: 202411558713.X 32: 2024-11-04

54: SCRAPING DEVICE FOR TRADITIONAL CHINESE MEDICINE NURSING

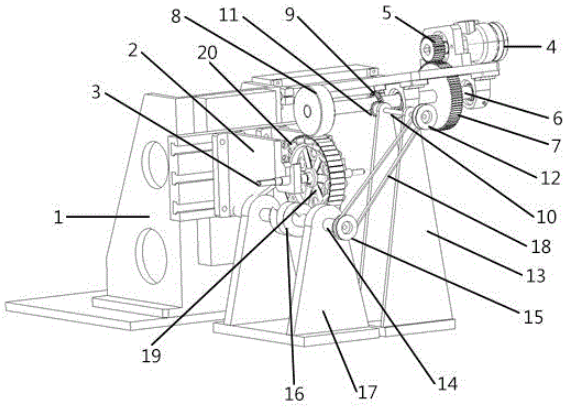
00: -

The invention discloses a scraping device for traditional Chinese medicine nursing, which comprises a scraping plate, wherein one end of the scraping plate is provided with an oil injection hole, the bottom end of the scraping plate is rotatably connected with scraping balls, a control component for controlling oil discharge is arranged inside the scraping plate, The control component comprises an oil baffle which is connected inside the scraping plate in a sliding way, oil outlet meshes which are symmetrically arranged at two ends of the oil baffle, and a mounting plate which is fixedly arranged at the top end of the oil baffle, wherein oil outlet micropores for supplying oil are uniformly arranged inside the

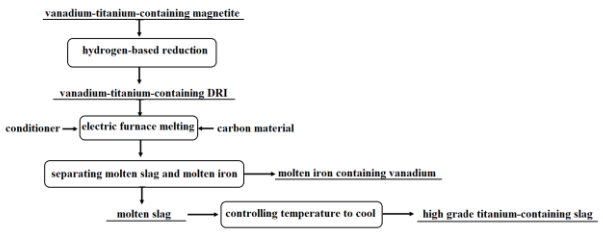
scraping plate and in the middle of the oil baffle and the scraping balls; A user pulls the U-shaped pull rod to drive the oil baffle plate to be lifted, and essential oil in the scraping plate flows out of the scraping plate from the oil outlet micropores and the oil outlet meshes and is discharged from the scraping ball, so that the user can conveniently control the oil outlet quantity of the essential oil when scraping a patient, the waste of the essential oil is reduced, and the essential oil can be discharged at any time.



21: 2024/09398. 22: 2024/12/09. 43: 2025/06/25
51: B60L
71: Zhongxi Tianma New Material Technology Co., Ltd
72: SUN, Mingxia, GAO, Xigui, QU, Sheng, MIAO, Zhenyu, LIN, Ping, ZHOU, Yushuang, HAO, Zonghua, SHANG, Chengpeng, ZHAO, Yeji, DING, Yingjie, SHI, Zhuangxiu
33: CN 31: 202411258814.5 32: 2024-09-09
54: DISASSEMBLING DEVICE FOR COPPER COIL OF ELECTRIC VEHICLE HUB
00: -
The present provides a disassembling device for a copper coil of an electric vehicle hub, which includes a fixed platform and a disassembling mechanism. A front end of the fixed platform is provided with a support plate and a driving mechanism; the support plate is provided with a fixed shaft for fixing the hub; the disassembling mechanism includes a third transmission shaft and a hob arranged on the third transmission shaft; the center line of the hob is perpendicular to the center line of the hub; the driving mechanism is in transmission connection with the disassembling mechanism; the driving mechanism drives the hub to rotate. According to the present invention, the copper coil on the hub of the electric vehicle can be quickly disassembled conveniently and accurately, improving the disassembling efficiency of the copper coil and the resource recycling rate.

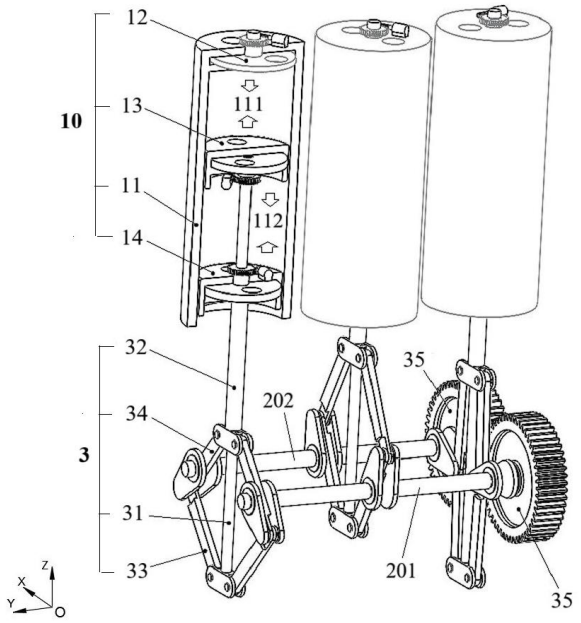


21: 2024/09399. 22: 2024/12/09. 43: 2025/06/25
51: C22B
71: HEBEI HBIS MATERIALS TECHNOLOGY RESEARCH INSTITUTE CO., LTD.
72: WANG, Lanyu, LI, Yiren, ZHANG, Caidong, LI, Lanjie, ZHAO, Suxing, WANG, Gairong, WANG, Haixu, GAO, Minglei
54: METHOD FOR PREPARING TITANIUM-CONTAINING SLAG BY MELTING VANADIUM-TITANIUM-CONTAINING MAGNETITE
00: -
A method for preparing a titanium-containing slag by melting vanadium-titanium-containing magnetite includes: step 1, performing a gas-based reduction on vanadium-titanium-containing magnetite to prepare vanadium-titanium-containing direct reduced iron (DRI); step 2, mixing the vanadium-titanium-containing DRI, a carbon material and a conditioner to perform an electric furnace melting for deep reduction; and step 3, separating a molten slag and molten iron, controlling a speed of cooling the molten slag to 1 °C per minute (°C/min) to 15 °C/min and a temperature of cooling the molten slag to 1100°C to 1300°C, performing a constant temperature cooling for 20 min to 360 min to obtain the titanium-containing slag.



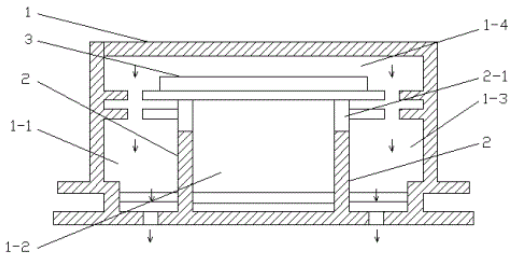
21: 2024/09400. 22: 2024/12/09. 43: 2025/06/25
51: C22B
71: HEBEI HBIS MATERIALS TECHNOLOGY RESEARCH INSTITUTE CO., LTD.
72: LI, Lanjie, LI, Yiren, WANG, Lanyu, ZHANG, Caidong, WANG, Haixu, GAO, Minglei, HAN, Xing, ZHAO, Suxing
54: METHOD FOR LOW-CARBON UTILIZATION OF VANADIUM-TITANIUM-CONTAINING MAGNETITE
00: -
The disclosure relates to the technical field of comprehensive utilization of metallurgical resources and provides a method for low-carbon utilization of vanadium-titanium-containing magnetite. The method includes: step 1, mixing vanadium-titanium-containing magnetite powder with water, a binder and a lubricant to perform granulation to prepare green pellets; step 2, drying the green pellets and roasting the dried green pellets in a weak reducing atmosphere to produce reducing pellets; step 3, mixing the reducing pellets and a carbonaceous reducing agent, and introducing reducing gas to perform a reduction reaction; and step 4, melting the reduced mixture at an electric furnace to obtain an electric furnace slag and vanadium-containing molten iron.

21: 2024/09401. 22: 2024/12/09. 43: 2025/06/26
51: F16C
71: FANG, Shufeng
72: FANG, Shufeng
33: CN 31: 202411082796X 32: 2024-08-07
54: A DOUBLE CRANKSHAFT RECIPROCATING ENGINE
00: -
The present invention discloses a double crankshaft reciprocating engine comprising a cylinder assembly and a double crankshaft transmission system. The cylinder assembly comprises a cylinder, a piston and a displacer. An intake valve is provided at the top of the cylinder. The piston is mounted in the cylinder and forms a combustion chamber with an inner wall of the cylinder located above the piston; the displacer is mounted below the piston, and a space between the displacer and the piston is a compression chamber. The piston is provided with first vent holes and a first exhaust valve. The displacer is provided with second vent holes and a second exhaust valve. The double crankshaft transmission system comprises a double crankshaft and a plurality of rhombic drive mechanisms, and the rhombic drive mechanisms are connected to the displacer and the piston through a displacer rod and a piston rod, respectively.



21: 2024/09402. 22: 2024/12/09. 43: 2025/06/25
51: B22C
71: Harbin Institute of Technology
72: YU Guangbin, LU Yanling, ZHURAVKOV Michael, LAPATSIN Siarhei
54: LAYERED SOLIDIFICATION TYPE CASTING DEVICE FOR HIGH-PRECISION AVIATION ALUMINUM ALLOY CASTING AND CASTING METHOD
00: -
The present invention relates to a layered solidification type casting device for a high-precision aviation aluminum alloy casting and a casting method. The layered solidification type casting device for a high-precision aviation aluminum alloy casting includes a casting body (1), main material channel A (4) and main material channel B (10),

where material distributing cavity A (1-1), a middle cavity (1-2), material distributing cavity B (1-3) and a hopper receiving cavity (1-4) are arranged on the casting body. The material distributing cavity A is used for pouring molten metal into the main material channel A, and the main material channel A and the main material channel B are both in communication with a bottom of a housing cavity (7). The middle cavity is used for pouring molten metal into a riser (11) at a top of the housing cavity



21: 2024/09403. 22: 2024/12/09. 43: 2025/06/25
51: F02D
71: Northeast Petroleum University
72: WANG, Haoran, SU, Bilin, JIANG, Fei, ZHANG, Jiao, ZHANG, Bowei, HU, Xinlei
33: CN 31: 202411614995.0 32: 2024-11-13

54: METHOD FOR COMPUTING CONVERSION TIME FOR TRANSPORTING OIL AND GAS FROM OIL-SOURCE FAULT TO SAND BODY, AND RELEVANT DEVICES

00: -

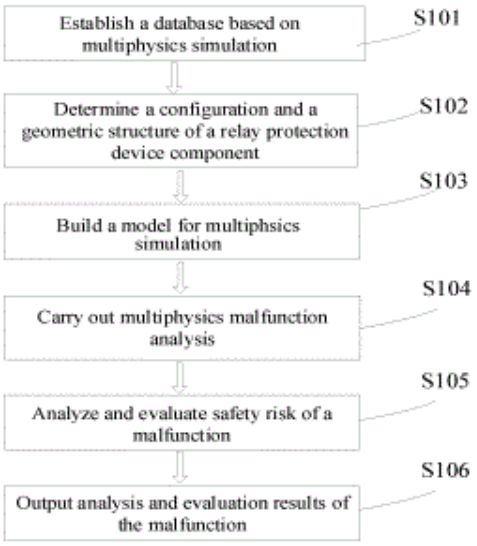
Disclosed are a method for computing conversion time for transporting oil and gas from an oil-source fault to a sand body, and relevant devices. The method includes computing time for transporting the oil and gas from the oil-source fault to the sand body under mudstone caprock according to oil-source fault activity time and source rock hydrocarbon expulsion time; computing growth disconnection time of the oil-source fault in the mudstone caprock according to oil-source fault activity start time and growth connection start time of the oil-source fault in the mudstone caprock; and computing the conversion time for transporting the oil and gas from the oil-source fault to the sand body according to the time for transporting the oil and gas from the oil-source fault to the sand body and the growth disconnection time of the oil-source fault in the mudstone caprock.

21: 2024/09404. 22: 2024/12/09. 43: 2025/06/25
51: G01R
71: Qinzhou Power Supply Bureau, Guangxi Power Grid Corporation, Nanjing Ninghan Power Automation Co., Ltd.
72: LI, Wenwei, PAN, Zhongning, WANG, Xiaoming, LAN, Lili, LV, Mingdao, LU, Zonghong, LI, Haidong, PANG, Limei, YOU, Rou

54: ANALYSIS METHOD AND SYSTEM FOR MALFUNCTIONS OF RELAY PROTECTION DEVICE COMPONENT BASED ON MULTIPHYSICS SIMULATION

00: -

An analysis method and system for malfunctions of a relay protection device component based on multiphysics simulation are provided. The analysis system includes a touch-control integrated machine, a monitoring device component heating malfunction analysis module, a monitoring overcurrent/overvoltage malfunction analysis module, and an analysis result feedback module, wherein a temperature regulation module is arranged in the monitoring device component heating malfunction analysis module; and an electromagnet, current and voltage feedback module is arranged in the monitoring overcurrent/overvoltage malfunction analysis module. According to the present invention, by solving the problems of heating and the obvious increase of compatibility problems of current, electromagnet and voltage in the whole machine detection in the malfunction analysis of the relay protection device component in the prior art, the compatibility problem of different software is avoided, the matching of various modules in simulation is improved, model errors are reduced, and processing steps are simplified.

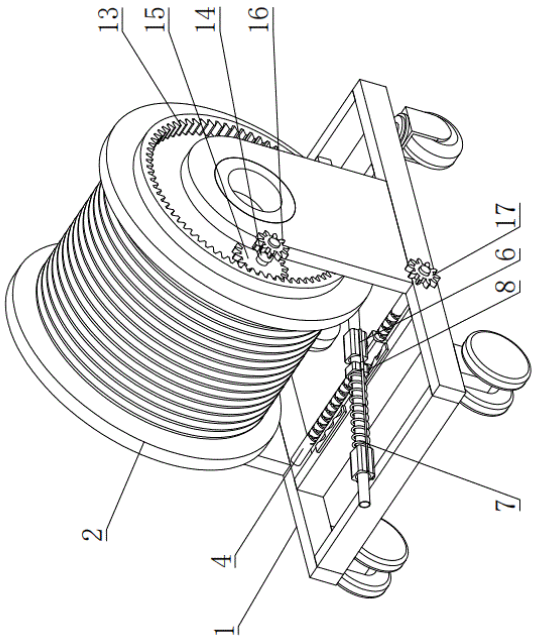


21: 2024/09405. 22: 2024/12/09. 43: 2025/06/25
51: A01G
71: Anhui Science and Technology University
72: Xiang Zhudong, Zheng Qian, Zheng Ran, Zhou Longfei, Qi Xiulong

54: A TYPE OF AGRICULTURAL SPRINKLER TRUCK

00: -

The present invention discloses an agricultural sprinkler truck, comprising a frame, a winch installed above the frame, and a spray gun fixed on the frame on the right side of the winch; there is a reciprocating screw below the winch, and the axis of the reciprocating screw is parallel to the axis of the winch. The reciprocating screw is driven to rotate by the winch. There is a screw nut on the reciprocating screw, and a guide unit is hinged above the screw nut. The guide unit can neatly wrap the water pipe around the winch when it moves along the reciprocating screw. There is a cleaning unit on the left side of the guide unit, which can scrape off the mud on the water pipe. The cleaning unit is connected to the guide unit, and there is a vibration mechanism between the cleaning unit and the guide unit. The vibration mechanism can cause the cleaning mechanism to vibrate when the guide unit moves cyclically, avoiding mud accumulation on the cleaning unit; this invention solves the problem of guiding the direction of the water pipe and cleaning sediment when the sprinkler truck is coiling the water pipe.



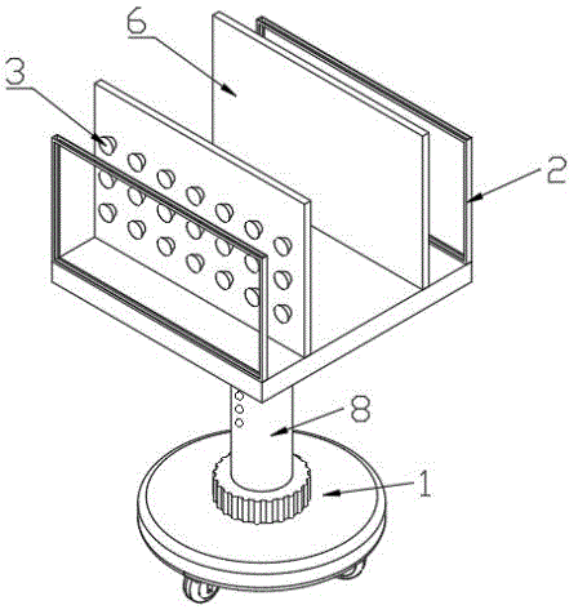
21: 2024/09406. 22: 2024/12/09. 43: 2025/06/25
51: G09B
71: Suzhou University
72: Fei Cao, Jiguang Zhao

54: TEACHING DEVICE FOR KOREAN LANGUAGE TEACHING

00: -

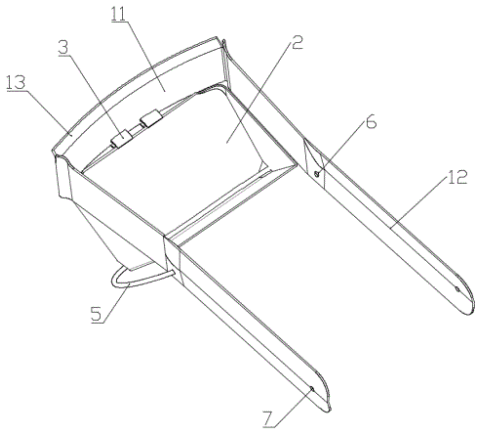
A teaching device for Korean language teaching, comprising a support base, and a support frame device is provided on the support base; wherein Korean language teaching devices are symmetrically provided on a top of the support frame device; the Korean language teaching devices comprise Korean language display card clamping frames and lighting components; the lighting components are uniformly provided on rear sides of the Korean language display card clamping frames; Korean language card fixing holes are provided on tops of the Korean language display card clamping frames, and a Korean language card viewing area is provided at front ends of the Korean language display card clamping frames; the Korean language card viewing area is connected to the Korean language card fixing holes; the structure mentioned hereinabove can move the display cards to the corresponding position, so that consonants and vowels correspond, the lighting components can illuminate the two stacked display cards, so that the display area inside the display hole can display the combined Korean

characters, which improves the convenience of teaching and learning and has a good use effect.



21: 2024/09407. 22: 2024/12/09. 43: 2025/06/25
51: E02F
71: Zhechun Wang
72: Zhechun Wang
33: CN 31: 2024107492617 32: 2024-06-12
54: POLE HOLE SOIL SAMPLER
00: -

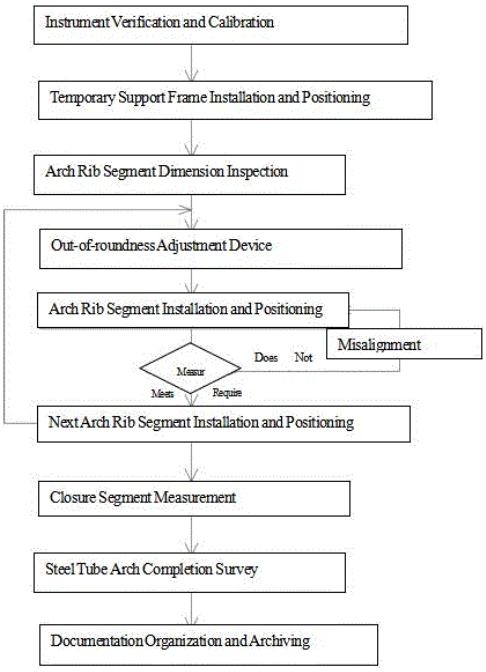
A pole hole soil sampler, comprising a support frame and a spoon body; the support frame has a U-shaped structure, and the support frame comprises a fixed plate and connecting rods connected to both ends of the fixed plate; a shovel plate is provided on an upper part of the fixed plate along the length direction; the spoon body is rotatably provided inside the support frame; the front end of the spoon body is adapted to a bottom of the fixed plate; connecting pieces are provided in a middle of the front end of the spoon body; connecting holes that cooperate with the connecting pieces are provided in a middle lower part of the fixed plate; springs are provided at a bottom of the spoon body, and two ends of the springs extend to the outside of the spoon body and are connected to the connecting rods. The soil sampler has a simple structure and is easy to use; its length can be extended according to the actual situation, and it can excavate soil inside and on the inner wall of the pole hole; it has strong value for use and promotion.



21: 2024/09408. 22: 2024/12/09. 43: 2025/06/25
51: E01D
71: China Railway NO.3 GROUP Co., LTD, Bridge & Tunnel Engineering Company of the Third Engineering Group Co. Ltd.of China Railway
72: Chu Xiaohui, Yi Xiankun, Liaobin, Shi Xingkai, Du Penghong, Shi Jisheng, Zhang Lianguo, Jiang Mingbo
33: CN 31: 2023117108385 32: 2023-12-13
54: CONSTRUCTION METHOD FOR STEEL TUBE ARCH
00: -

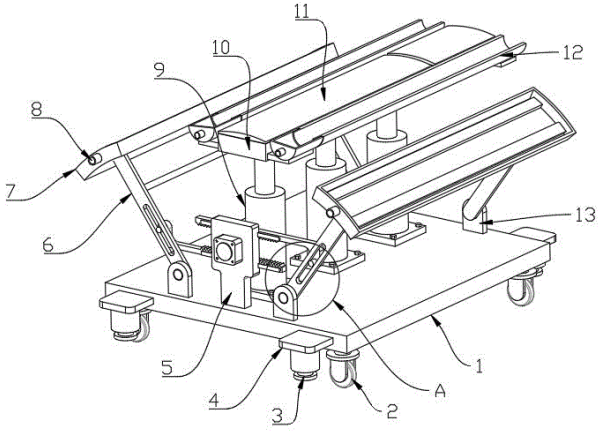
The present invention discloses a construction method for steel tube arch that pertains to the technical field of arch bridge construction. The method comprises the following steps: support frame erection, arch rib segment dimensional inspection, arch rib installation and positioning, welding of arch rib segments, corrosion protection treatment of the steel tube arch surface, and temporary support frame removal. The method involves erecting temporary support frame on the completed main bridge to support the arch rib segments. The operation protective platform at the top of the support frame provides protection during welding operations, safeguarding vehicles traveling on the existing road below. Prior to hoisting, out-of-roundness in arch rib segments is corrected using an out-of-roundness adjustment device. After hoisting the segments onto the support frame, they are positioned using positioning devices, and any misalignment between segments is corrected using a misalignment adjustment device, thereby improving installation accuracy and construction quality of the arch bridge. This invention is particularly suitable for assembling arch bridges

above existing roads without interrupting traffic flow, thus enhancing economic benefits.



21: 2024/09409. 22: 2024/12/09. 43: 2025/06/27
51: E21D
71: China Railway NO.3 GROUP Co., LTD, Bridge & Tunnel Engineering Company of the Third Engineering Group Co. Ltd. of China Railway
72: Chu Xiaohui, Yi Xiankun, Shi Xingkai, Lu Zhicheng, Zhao Lei
33: CN 31: 2024100612815 32: 2024-01-16
54: A SUPPORT APPARATUS FOR TUNNEL CONSTRUCTION
00: -

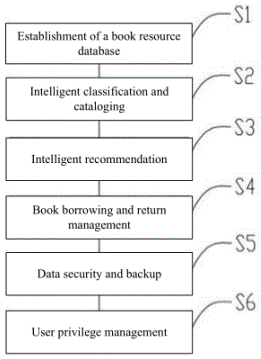
The present invention relates to tunnel construction apparatus, specifically a support apparatus for tunnel construction, comprising: a base plate, a top plate, extension plates, a casting frame, and support seats. The base plate is equipped with moving wheels, and the base plate is connected to fixed seats. The top plate is connected to hydraulic cylinders, a motor I, and threaded rods, with one end featuring a semi-pipe connection and a support plate I. The extension plates are fitted with a support plate II and guide rods for limiting movement. The casting frame includes a rocker arm connected to a steering column. The support seats are equipped with a motor II and rotation shaft, with one side featuring a gear disc and sliding plate. The support seat is connected to motor II and a rotation shaft, with a gear disc and a moving plate installed on one side of the support seat. The moving plate is connected to a sliding post, rack, and a linear guide rail. Advantageous effects: This apparatus facilitates comprehensive support of tunnel sidewalls and ceiling, enhancing the effectiveness and efficiency of support protection. It eliminates the need for lengthy installation times during support operations, thereby improving support efficiency and increasing practical utility.



21: 2024/09418. 22: 2024/12/09. 43: 2025/06/25
51: G06Q
71: HENAN AGRICULTURAL UNIVERSITY
72: XIAO, Xianghong, GUO, Xiao
54: BOOK RESOURCE MANAGEMENT METHOD AND DEVICE
00: -

The present invention discloses a book resource management method and device. The method includes the following steps: establishment of a book resource database: firstly, digitizing all book resources in the library and then storing the digitized book resources in the book resource database; intelligent classification and cataloging: building a book classification model using natural language processing and machine learning to classify and catalog the books in the book resource database in an intelligent manner; intelligent recommendation: integrating collaborative filtering and content recommendation based on readers' behavior information to provide personalized book recommendation services for readers; book borrowing and return management; and data security and backup: encrypting sensitive information in the book resource database using

encryption algorithms and adopting a distributed storage system for backup storage of book resources. The method has advantages of high search efficiency, good user experience and optimized resource allocation.

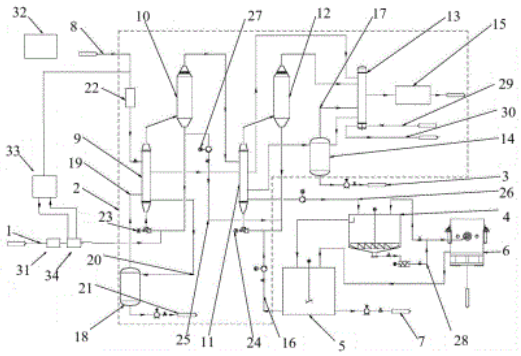


21: 2024/09419. 22: 2024/12/09. 43: 2025/06/25
51: C02F
71: Huadian Water Technology Co., Ltd.
72: WANG, Qi, LI, Weilin, ZHANG, Bo, YE, Shurong, XIE, Zheng, JIA, Yingying, YAN, Caixia, CUI, Desheng, WU, Xi, ZHANG, Yan, LIU, Jin, LI, Hongxiu, QIN, Shupeng

54: DISCHARGE SYSTEM FOR DESULFURIZATION WASTEWATER IN POWER PLANT

00: -

Disclosed is a discharge system for desulfurization wastewater in a power plant. The desulfurization wastewater is introduced into a wastewater inlet pipe for filtration and enters a flash concentration system. Purified desulfurization water and concentrate of the flash concentration system are introduced into a desulfurization water tank and a clarification water tank, respectively. Supernatant and sludge in the clarification water tank are introduced into a filtrate tank and a plate and frame filter press, respectively. Filtrate water in the plate and frame filter press can be introduced into the clarification water tank or the filtrate tank. A solar heat collecting assembly is capable of preheating the desulfurization wastewater in the wastewater inlet pipe, and the steam can be introduced into the steam pipeline. The present invention eliminates the need for chemical pretreatment of the desulfurization wastewater, simplifying the process and reducing operating costs.

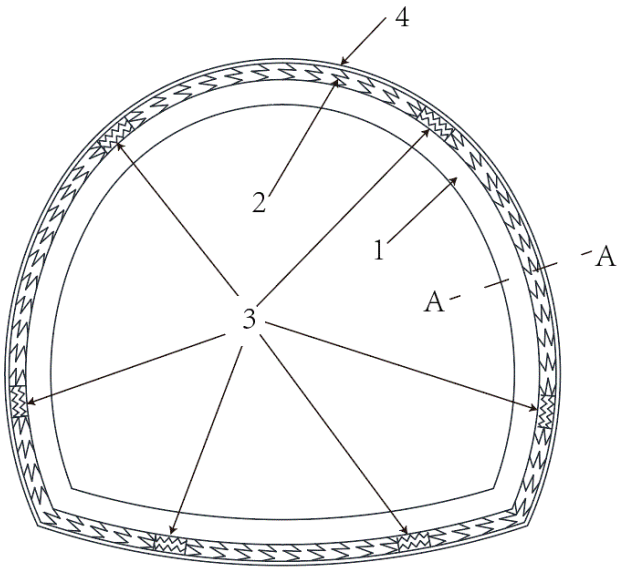


21: 2024/09420. 22: 2024/12/09. 43: 2025/06/27
51: E02D
71: Henan University of Urban Construction
72: REN Mingyang, ZHANG Xutao, HUANG Yunchao, PAN Rui, LIU Hao

54: NEW YIELDING ARCH FRAME FOR TUNNELS IN EXPANSIVE SOIL LAYERS AND MANUFACTURING METHOD THEREOF

00: -

The invention discloses a new yielding arch frame for tunnels in expansive soil layers and a manufacturing method thereof. The new yielding arch frame comprises a steel arch frame, a radial yielding device, a circumferential yielding device and a grouting cloth bag. The middle of the radial yielding device is a high elastic silicon manganese steel spring distributed along the radial direction of the arch frame, one end of which is welded to the back of the steel arch frame and the other end is welded to the steel plate. The middle of the circumferential yielding device is an elastic spring with a circumferential distribution, both ends of which are welded on two steel plates respectively, and the whole circumferential yielding device is welded on the radial spring. The grouting cloth bag is arranged on the outer steel plate of the radial yielding device. The invention can perfectly adapt to the characteristics of swelling, water loss and shrinkage of the expansive soil layer when it meets water, and produce a certain amount of shrinkage and rebound for the expansive soil with different water-containing states, which is of great significance for the adjustment of the stress state of surrounding rock and supporting structure and the prevention of engineering accidents. At the same time, the new yielding arch frame is simple in structure, convenient to install, safe and reliable, and has broad application prospects.



21: 2024/09422. 22: 2024/12/09. 43: 2025/06/25
51: A01N
71: Mr. Rajat Das, Mrs. Shreetama Roy, Dr. Jyochhana Priya Mohanty, Dr. Pallab Ghosh, Ms. Surabhi Mandal, Ms. Amrita Ghosh, Ms. Shrestha De, Mr. Safal Sharma, Mr. Sonam Bhutia, Mr. Krishnendu Ghosh
72: Mr. Rajat Das, Mrs. Shreetama Roy, Dr. Jyochhana Priya Mohanty, Dr. Pallab Ghosh, Ms. Surabhi Mandal, Ms. Amrita Ghosh, Ms. Shrestha De, Mr. Safal Sharma, Mr. Sonam Bhutia, Mr. Krishnendu Ghosh

54: ECO-FRIENDLY MOSQUITO REPELLENT CAKES MADE FROM NATURAL INGREDIENTS FOR EFFECTIVE PEST CONTROL

00: -

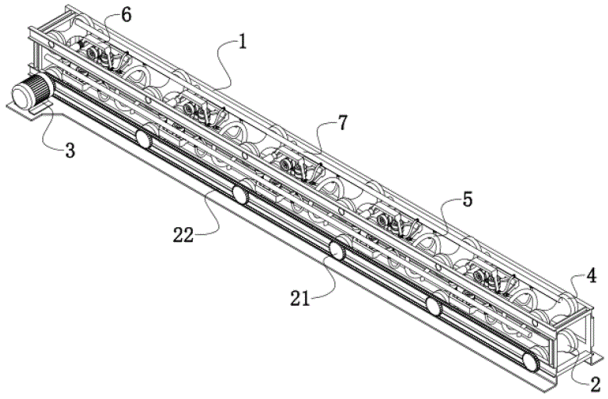
The present invention relates to a natural, eco-friendly mosquito repellent cake formulated using cardamom seed powder, wood powder (from Alnus and Abies trees), chili powder, and gum Arabic as a binder. This biodegradable composition provides an effective alternative to chemical-based mosquito repellents. Cardamom seed powder acts as the primary active ingredient, releasing bioactive compounds during combustion to repel mosquitoes, while wood powder ensures flammability and structural integrity. The inclusion of chili powder enhances the overall efficacy. The cakes are shaped using molds or thermocol plates and sun-dried for 96 hours to achieve optimal moisture reduction and stability. The final product demonstrates prolonged burning time, effective mosquito repellency, and minimal environmental impact, making it a safe and cost-effective solution for both indoor and outdoor mosquito control.

21: 2024/09423. 22: 2024/12/09. 43: 2025/06/25
51: C21D
71: XinYu University
72: Wenming XIONG, Yanni HU, Su SONG, Xiaogang YU, Xiao CHEN, Chengdi LI, Chaobin LAI, Xu NING

54: TEMPERATURE-CONTROL COOLING DEVICE FOR SEAMLESS BEARING STEEL PIPE

00: -

The present invention discloses a temperature-control cooling device for a seamless bearing steel pipe. The temperature-control cooling device includes a long-strip hollow frame, where the lower side in the frame is rotatably connected to a plurality of driving rollers, one lower snap-in rolling slot is formed in the middle of each driving roller, and matches with an upper snap-in rolling slot of the corresponding driven roller on the upper side, thereby ensuring stable transportation of a steel pipe. A plurality of annular water spray rings are arranged in the frame body, three water spray sprinklers are arranged on the inner side of each annular water spray ring, and water is supplied by means of a first water injection pipe to cool an outer wall. In addition, a plurality of rotating shafts are arranged in the frame, each rotating shaft is connected to a rotating frame and a supporting arm, a metal supporting wheel is arranged at the tail end of each supporting arm, a high-pressure nozzle is arranged at the tail end of the water spray arm, and water is supplied by means of second water injection pipes to cool an inner wall. When the steel pipe comes into contact with the supporting wheels, the supporting wheels drive the water spray arms to adjust an angle, thereby ensuring that high-pressure nozzles do not prevent the steel pipe from advancing. The device realizes uniform cooling of the inner wall and the outer wall by precisely controlling water pressure and water volume, thereby improving quality and production efficiency of the steel pipe.

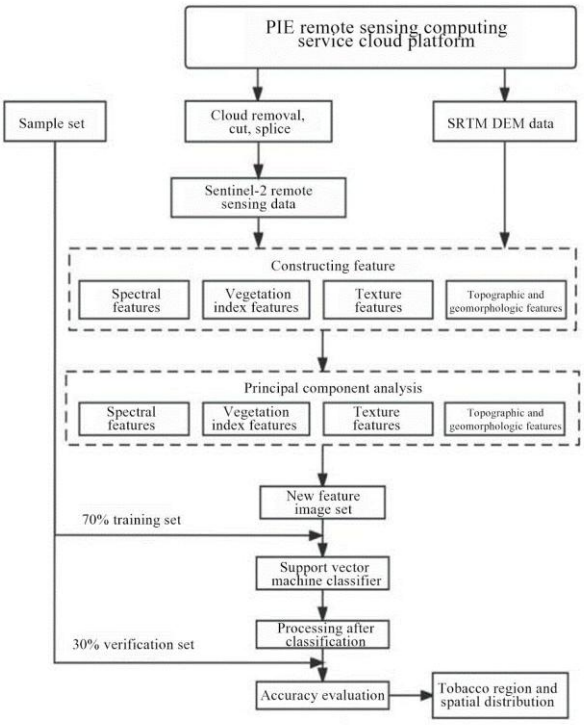


21: 2024/09424. 22: 2024/12/09. 43: 2025/06/25
51: G01N
71: Kunming University of Science and Technology
72: Jie Lv, Chengzhuo Lu, Lei Zi, Xiaolun Zhang, Yanyan Shao, Wei Li

54: A METHOD FOR EXTRACTING TOBACCO PLANTING REGIONS BASED ON PIE AND SENTINEL-2

00: -

The invention relates to the technical field of precision agriculture, in particular to method for extracting tobacco growing regions based on PIE and Sentinel-2. It includes the following steps: Calling Sentinel-2 data of the target region through PIE cloud platform and perform operations such as splicing, cropping and cloud removal, which can obtain complete remote sensing image and then preprocess it; The feature engineering is established, and the spectral features, exponential features, texture features and topographic features of remote sensing images are extracted and superimposed. The feature dimension is reduced. The feature image set was processed and interpreted by support vector machine classification algorithm. The accuracy of tobacco classification results was evaluated and the tobacco planting region was calculated. By using Sentinel-2 image data and PIE remote sensing computing service platform for feature extraction, relatively reliable spatial distribution results can be obtained, so as to quickly obtain tobacco planting region, which can provide an effective basis for arranging and guiding agricultural activities.



21: 2024/09429. 22: 2024/12/09. 43: 2025/06/26
51: C04B
71: Northeast Institute of Geography and Agroecology, Chinese Academy of Sciences
72: LI, Xiaoyu, WEN, Bolong, WANG, Miao, LIU, Hongyuan, JIANG, Fanqi, CHEN, Guoshuang

54: ECOLOGICAL RESTORATION METHOD FOR SODA-TYPE SALINE-ALKALI SOIL

00: -

The present invention provides an ecological restoration method of soda-type saline-alkali soil, falling within the field of environmental technology. The solutions provided by the present invention includes: mixing mushroom barn with sand soil, fermenting to obtain a fermentation composition; applying the fermentation composition on soda-type saline-alkali soil, rotary tillage, moistening field; and draining the water, and adding a soil acidity regulating amendment. The soil acidity regulating amendment is a citric acid aqueous solution with a concentration of 2%-4%, and the application amount of the soil acidity regulating amendment is 50-150 kg / hm2. Herbacous Leymus chinensis or Phragmites australis rhizomes is planted. After planting crops, the method of the present invention realizes the reuse of waste crops by watering once every 2 days, and the soil restoration method has low cost, good

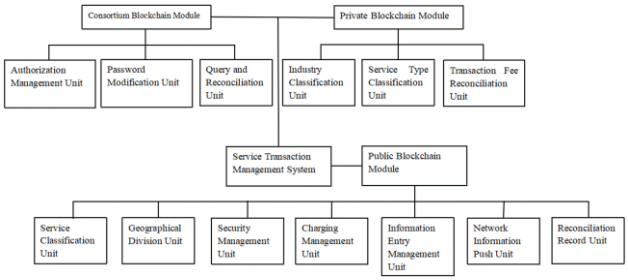
effect on soda saline-alkali soil is improved, and can quickly restore grassland vegetation.

21: 2024/09431. 22: 2024/12/09. 43: 2025/06/26
51: G06Q
71: Lingnan Normal University
72: Chen Shuling, Yuan Shuai

54: A SERVICE TRANSACTION MANAGEMENT SYSTEM BASED ON BLOCKCHAIN TECHNOLOGY

00: -

This invention discloses a service transaction management system based on blockchain technology, comprising a service transaction management system that includes a public blockchain module, a consortium blockchain module, and a private blockchain module. The public blockchain module is configured so any individual or group can send transactions, and the transactions can obtain valid confirmation from the blockchain. Anyone can participate in its consensus and obtain the services they need. The consortium blockchain module is set up as an industry blockchain, where multiple pre-selected nodes are designated as bookkeepers within a fixed group. The generation of each block is jointly determined by all pre-selected nodes. Other authorized individuals can participate in transactions, and authorized individuals can select and use the service types open to the blockchain. This system classifies the design of transaction service management, improving management efficiency and offers high security in use, enhances user-friendly services, and provides strong practicality.

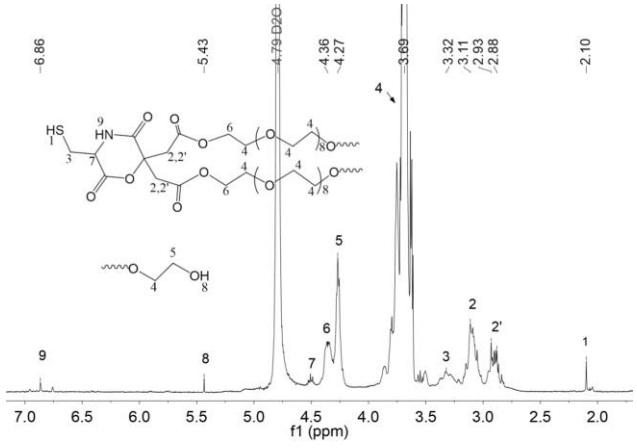


21: 2024/09434. 22: 2024/12/09. 43: 2025/06/25
51: C08G
71: LINGNAN NORMAL UNIVERSITY
72: Lijun Gao, Jiuying Feng, Yanbei Guo, Dongning He
33: CN 31: 202310839495.6 32: 2023-07-10

54: A FLUORESCENT TRACER POLYESTER SCALE INHIBITOR AND A PREPARATION METHOD AND APPLICATION THEREOF

00: -

The invention discloses a fluorescent tracer polyester scale inhibitor and a preparation method and application thereof, belonging to the technical field of water treatment agents. It is made of citric acid, polyethylene glycol and amino acid by two-step condensation reaction to form a polyester scale inhibitor containing a six-membered ring structure. The average molecular weight of the polyester scale inhibitor is 1000-5000, the polyester scale inhibitor prepared by the invention is biodegradable, green and environmentally friendly, and has the chelation and solubilization effect with the scale cation in water and the scale lattice distortion effect for preventing the formation of sediments in the circulating cooling water and achieving the purpose of scale inhibition. It has excellent calcium phosphate and/or calcium carbonate scale inhibition performance, polyester scale inhibitor has a six-element conjugated structure, which makes it have excellent fluorescence performance, the fluorescence intensity of aqueous solution is proportional to the concentration, which can realize the online monitoring of scale inhibitor fluorescence and real-time control of scale inhibitor dosage, in order to improve the operating level of water treatment equipment.



21: 2024/09444. 22: 2024/12/09. 43: 2025/06/26
51: A01C; A01N
71: HEILONGJIANG GREEN FOOD SCIENCE RESEARCH INSTITUTE, NORTHEAST AGRICULTURAL UNIVERSITY

72: LI, Fenglan, LIU, Dan, LI, Xiaozhong, WANG, Xue, WANG, Yingnan, HE, Fumeng, FENG, Xu, HU, Xiaomei, TIAN, Miao, YUAN, Qiang, WANG, Linlin

54: SEED DRESSING AGENT FOR PROMOTING CROP ROOTING AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF

00: -

The present invention discloses a seed dressing agent for promoting crop rooting as well as a preparation method and an application thereof. The main components of the seed dressing agent of the present invention include calcium dihydrogen phosphate, potassium dihydrogen phosphate, cooked fish meat, ferrous sulfate, magnesium sulphate and compound probiotics liquid. Each of the raw materials in parts by weight includes 10-20 parts of the calcium dihydrogen phosphate, 5-10 parts of the potassium dihydrogen phosphate, 5-10 parts of the cooked fish meat, 2-4 parts of the ferrous sulfate, 4-8 parts of the magnesium sulphate and 50-60 parts of the compound probiotics liquid. According to the present invention, the seed dressing agent may promote the development of embryos and the rooting of seedlings, and make the seedlings of crops robust, thereby promoting the growth of crops and improving the yield of crops.

21: 2024/09445. 22: 2024/12/09. 43: 2025/06/27

51: B29C

71: BROWNLOW, George

72: BROWNLOW, George

33: ZA 31: 2022/06449 32: 2022-07-12

54: METHOD OF COATING A PIPE

00: -

The invention provides a method of applying a corrosion resistant coat to a pipe section by extruding a viscoelastic material, from an extruder. onto an exterior surface of the pipe section, while simultaneously imparting rotational and longitudinal movement to the pipe section, and while adjusting at least one process parameter to ensure that a thickness of the corrosion resistant coat is within a range 500 µm to 2000 µm.

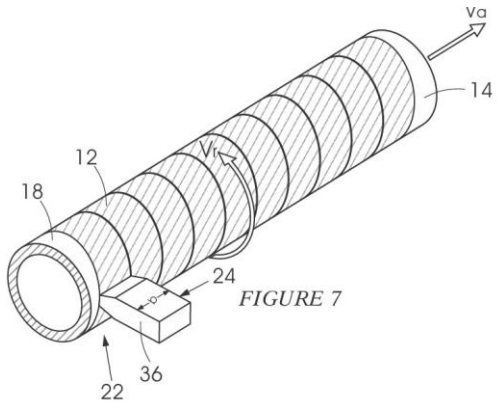


FIGURE 7

21: 2024/09452. 22: 2024/12/09. 43: 2025/07/11

51: C04B

71: HENAN JIAOYUAN ENGINEERING TECHNOLOGY GROUP CO., LTD, HENAN COLLEGE OF TRANSPORTATION

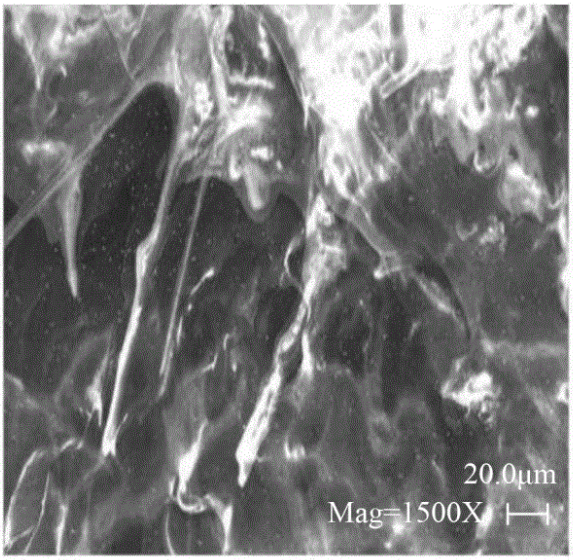
72: SHAO, Jinggan, LIU, Jiaqi, LI, Wenkai, WANG, Junchao, GAO, Yanlong, WANG, Baolin, XIE, Xiangbing

33: CN 31: 202410042575.3 32: 2024-01-11

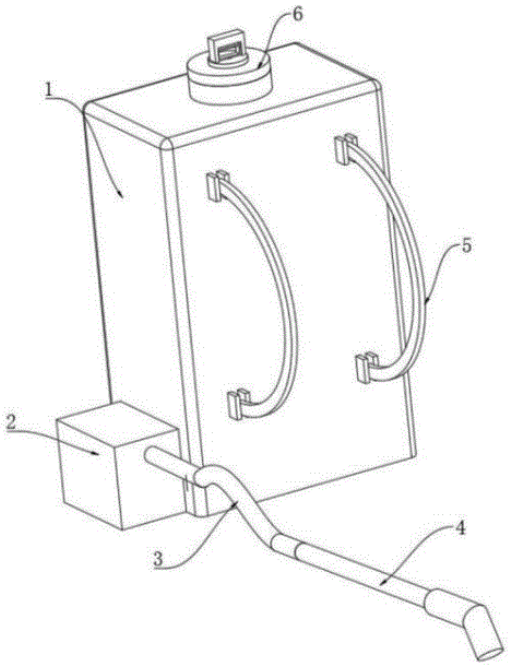
54: POLYETHYLENE -BASALT FIBER COMPOSITE MODIFIED ASPHALT MIXTURE AND PREPARATION METHOD THEREFOR

00: -

Disclosed are a polyethylene (PE)-basalt fiber composite modified asphalt mixture and a preparation method thereof. The PE-basalt fiber composite modified asphalt mixture is prepared by a process including the following steps: immersing a basalt fiber in a complexing agent, and then adding a granulating agent, and subjecting a resulting mixture to a hydrothermal reaction to obtain a granular PE-basalt fiber composite; and mixing the granular PE-basalt fiber composite with an asphalt mixture under stirring to obtain the PE-basalt fiber composite modified asphalt mixture. In the present discourse, asphalt is modified with PE. Under the action of the granulating agent, PE and the basalt fiber are used as base materials to prepare a PE-basalt fiber particle. The PE-basalt fiber particles are mixed with a mineral aggregate under stirring at a temperature of 170 to 180 degrees Celsius until PE is uniformly molten, and then mixed with the asphalt under stirring.

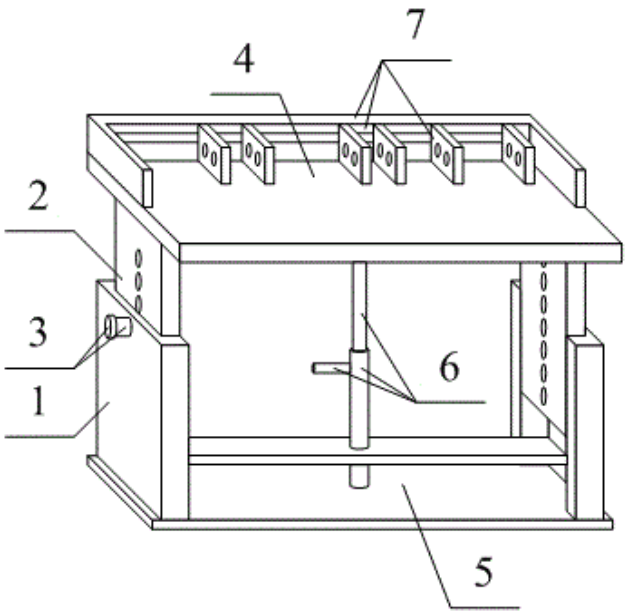


21: 2024/09483. 22: 2024/12/10. 43: 2025/06/25
51: A01M
71: Guangdong Institute of Tobacco Science
72: SUN, Zheng, FAN, Miaomiao, WANG, Xuebo, ZONG, Zhaohui, DENG, Haibin, YOU, Ziyi
33: CN 31: 202323552555.0 32: 2023-12-26
54: PORTABLE PESTICIDE SPRAYING DEVICE FOR TOBACCO
00: -
Disclosed is a portable pesticide spraying device for tobacco. The portable pesticide spraying device includes a pesticide liquid tank connected to a spraying module and shoulder straps, the spraying module is connected to one end of a pesticide spraying pipe, the other end of the pesticide spraying pipe is connected to a pesticide spraying rod, the pesticide liquid tank is in connection to a sealing cover and rotating shafts, and the rotating shafts are connected to cleaning scrapers. Clean water is injected into the pesticide liquid tank, a pulling handle is pulled and drives a gear block to slide on the pesticide liquid tank, the gear block drives rotating gears to rotate through engagement of outer walls, the rotating gears drive the rotating shafts to rotate, the rotating shafts drive the cleaning scrapers to rotate, and the cleaning scrapers clean the inner wall of the pesticide liquid tank.

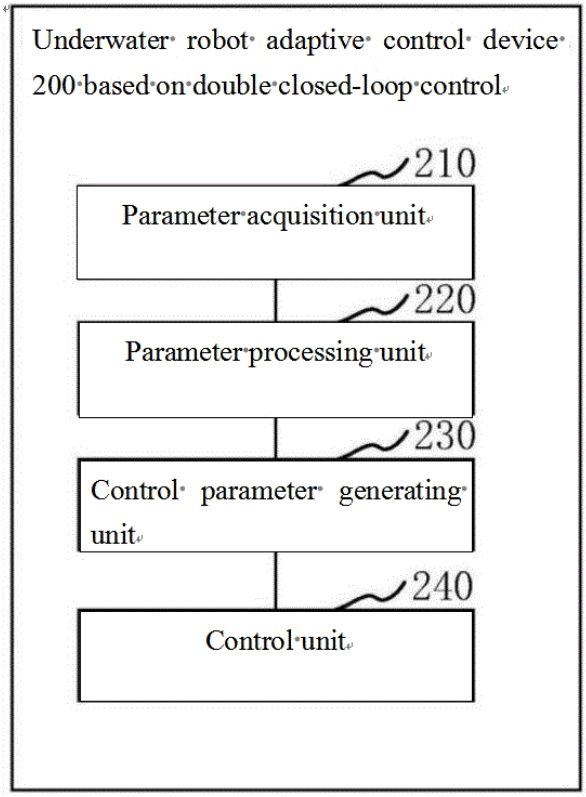


21: 2024/09484. 22: 2024/12/10. 43: 2025/06/27
51: G09B
71: Jiaxing Vocational & Technical College
72: MENG Weiyang
54: ADJUSTABLE TEACHING INSTRUMENT PLACEMENT TABLE
00: -
The invention provides an adjustable teaching instrument placement table, including a positioning seat, the positioning seat is interspersed with a lifting seat, and a connecting point is interspersed with a pin shaft; the positioning seat lower end bolt mounted with non-slip seat; the upper end of the lifting seat is bolted with a table plate; the rear side of the upper end of the table plate is installed with a movable clamp fixing seat structure; the back side of the upper end of the table plat is installed with the movable clamp fixing seat structure; the lower part between the positioning seat is arranged with a movable support fixing frame structure, one side of the positioning seat is provided with a placing box that can be collected, and a light is provided in the placing box, the table plate is arranged with a lifting rod, and the lifting rod is rotated and connected with a fixed component, which is used for clamping a lamp. The invention can clamp and fix the placed teaching instrument through the setting of the movable clamp fixing seat structure, so as to prevent

the teaching instrument from falling easily and breaking.

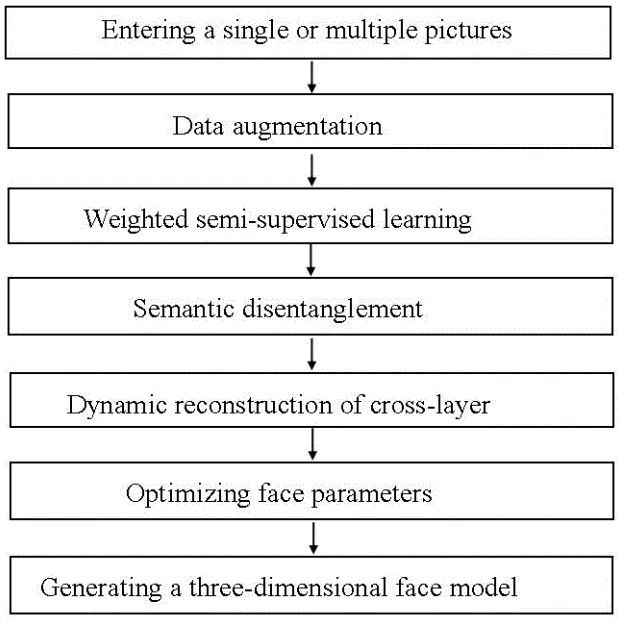


21: 2024/09485. 22: 2024/12/10. 43: 2025/06/25
51: G05B
71: China Southern Power Grid Power Generation Co., Ltd Energy Storage Research Institute
72: WANG Wenhui, PENG Yumin, LI Yikai, ZHANG Xuefeng, WANG Yujin, HE Rufei, LI Yao
54: ADAPTIVE CONTROL METHOD, DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM OF UNDERWATER VEHICLE BASED ON DOUBLE CLOSED-LOOP CONTROL
00: -
The application relates to the field of underwater vehicle control, and provides an underwater vehicle adaptive control method, device, computer equipment and storage medium based on double closed-loop control. The application relates to the field of underwater vehicle control, and provides an underwater vehicle adaptive control method, device, computer equipment and storage medium based on double closed-loop control. The method includes the following steps: obtaining the dynamic adjustment parameters of the underwater vehicle by obtaining the current operation parameters and the target operation parameters of the underwater vehicle, and controlling the underwater vehicle to execute the propeller parameters after generating the propeller control parameters according to the dynamic adjustment parameters, so that the underwater vehicle can reach the target operation parameters. According to the current operating parameters and the target operating parameters, the propeller control parameters of the underwater vehicle are determined, so that the real-time adjustment of the operating parameters of the underwater vehicle can be realized, the deviation of the running route can be avoided, and the control accuracy of the underwater vehicle can be improved.



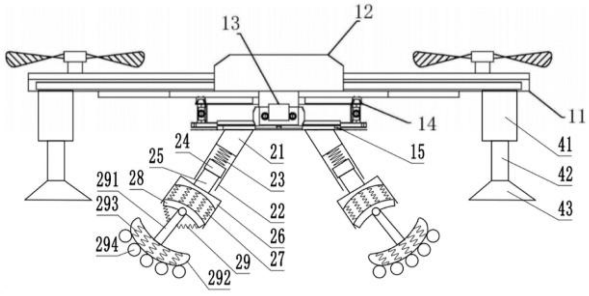
21: 2024/09486. 22: 2024/12/10. 43: 2025/06/25
51: G06T
71: Tongji University
72: Lei Li, Jiahao Li, Qi Wang
54: THREE-DIMENSIONAL FACE RECONSTRUCTION METHOD BASED ON WEIGHTED SEMI-SUPERVISED LEARNING AND SEMANTIC DISENTANGLEMENT
00: -
The invention relates to the field of three-dimensional face reconstruction, in particular to a three-dimensional face reconstruction method based on weighted semi-supervised learning and semantic disentanglement. This method accurately reconstructs a three-dimensional face model by inputting one or more two-dimensional face images, combining weighted semi-supervised learning and

semantic disentanglement technology. Firstly, random clipping and pasting transformation are used to generate new samples with pseudo-labels. The confidence of pseudo-labels is calculated by pixel-level intersection ratio (P-IOU) and multi-scale structural similarity index (MS-SSIM), and weighted back propagation is used in semi-supervised framework to improve the generalization ability and accuracy of the model. Then, Mamba-CNN architecture block combined with semantic disentanglement technology is used to effectively separate and manage multi-level spatial-semantic information flow, and extract global discriminant features and local detail features. Secondly, multi-layer semantic query blocks are used to dynamically re-establish important cross-layer connections that were interrupted in the process of disentanglement, and predict facial identity, expression and posture parameters. Finally, by combining the predicted parameters with three-dimensional deformable model (3DMM), high-precision three-dimensional face reconstruction is realized.



21: 2024/09487. 22: 2024/12/10. 43: 2025/06/25
51: H05K
71: Henan University of Urban Construction
72: DING, Leixiang, WEN, Feng, ZHANG, Haiyang
54: UNMANNED AERIAL VEHICLE FOR SURVEYING AND MAPPING IN REMOTE SENSING ENGINEERING
00: -

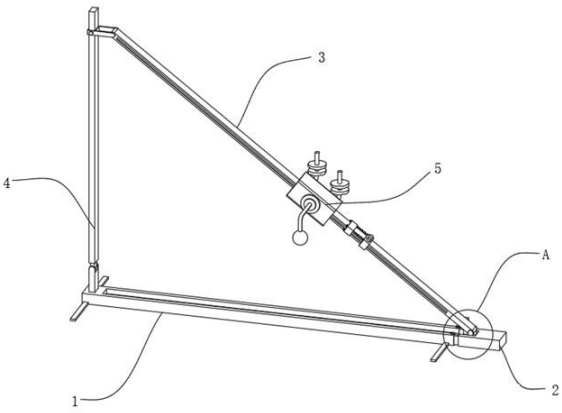
Disclosed is an unmanned aerial vehicle for surveying and mapping in remote sensing engineering. The unmanned aerial vehicle includes a frame, a base plate frame provided at a supporting end of the frame, and several buffering supporting legs mounted on the bottom of the base plate frame. The buffering supporting legs are provided in an inclined manner and include first-level supporting legs, second-level supporting legs, and third-level supporting legs. A first spring is provided between the first sliding block and a top end of the straight guiding sleeve. Several second springs are juxtaposed between the second sliding block and a top end of the arc-shaped guiding sleeve. Several pulling springs are provided between the second sliding block and the third-level supporting leg. Several third springs are juxtaposed in the arc-shaped elastic ring. The present invention is capable of enhancing the landing stability of the unmanned aerial vehicle.



21: 2024/09489. 22: 2024/12/10. 43: 2025/06/27
51: A63B
71: XINYU UNIVERSITY
72: HUANG, Taibin, LI, Ling, XI, Ying, LIANG, Jing, YANG, Zhiyu
54: AUXILIARY DEVICE FOR EXPLOSIVE POWER TRAINING
00: -

The present invention provides an auxiliary device for explosive power training, falling within physical training. It includes a supporting bottom plate, with one side slidably connected to an adjustment plate. An inclined plate is positioned on the adjustment plate, with a vertical plate connecting the inclined plate and the supporting bottom plate. A resistance element is arranged on the inclined plate's surface, capable of sliding to create resistance. The inclined plate can be gradually moved toward the supporting bottom plate by pulling an outer plate when the

device is not in use. A sleeve seat allows the vertical plate's surface to slide. When the inclined plate is fully attached to the supporting bottom plate, storage is complete. Sliding the limiting plate releases the vertical plate, which can be flipped to cover the inclined plate, facilitating compact storage and reducing indoor space usage.

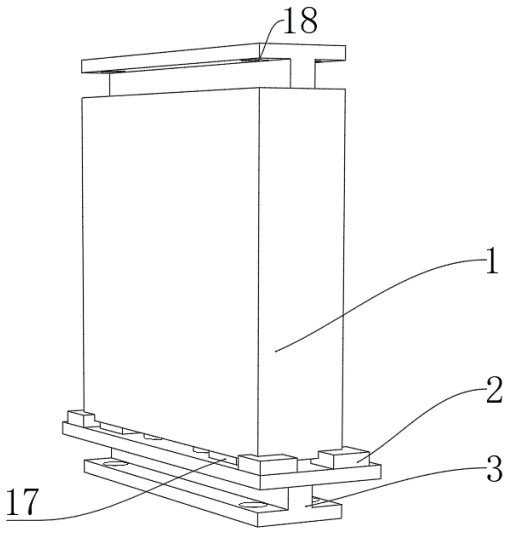


21: 2024/09490. 22: 2024/12/10. 43: 2025/06/27
51: E04B
71: Xinyu University
72: Fan Dongjiao, Xu Li, Ma Caiwei, Zeng Wenlin, Zhang Yuqing

54: PREFABRICATED PARTITION FOR DECORATION WITH SOUNDPROOFING AND NOISE REDUCTION CAPABILITIES

00: -

The present invention discloses a prefabricated partition for decoration with soundproofing and noise reduction capabilities, including a partition body and a lower bracket. Rubber mats are fixedly connected to two sides of a top of the lower bracket, and inner walls of the rubber mats are fixedly connected to the partition body, and polyurethane pads are fixedly connected to two sides of a middle of the top of the lower bracket. In the present invention, a second bevel gear is driven by a second connecting rod to rotate through a rotation of a knob. Therefore, a first connecting rod is driven by the first bevel gear to rotate. Through an engagement between a gear and a rack, a sliding plate can be slid out from the partition body, facilitating maintenance of the device inside the partition body and ensuring normal use of the partition body.

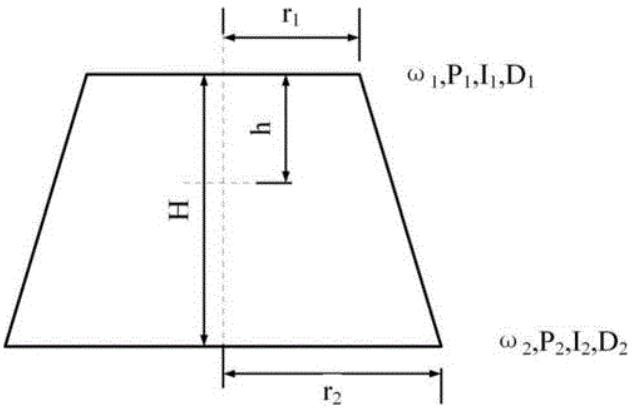


21: 2024/09491. 22: 2024/12/10. 43: 2025/06/27
51: C30B
71: Anhui China Future Science and Technology Co., LTD
72: Zhang Qingli, Liu Wenpeng, Wang Xiaofei, Sun Guihua, Dou Renqin

54: DESIGN METHOD AND CONTROL METHOD FOR LARGE-SIZE SINGLE CRYSTAL GROWTH BY THE CZOCHRALSKI METHOD

00: -

The present invention provides a design method and a control method for the shape, process parameters and control parameters of single crystal growth by the Czochralski method. A diameter, process parameters and control parameters of the whole crystal are designed in segments, and a plurality of crystal segments form a complete crystal. A pulling speed, rotation speed, diameter and proportional-integral-derivative (PID) parameters between adjacent crystal segments at the transition are kept equal and are set separately. Thus, the pulling speed, rotation speed, diameter and PID parameters in the whole crystal growth process are calculated according to the given functional relationships, providing parameters for the real-time control of crystal growth and calculating the feedback amount, so as to achieve the purpose of stably controlling crystal growth.

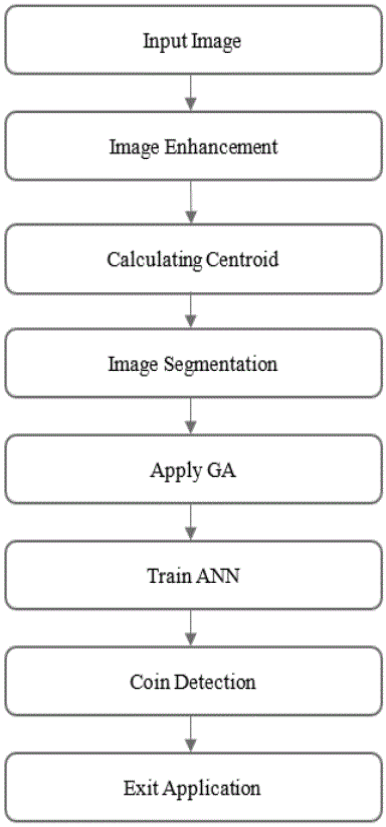


21: 2024/09492. 22: 2024/12/10. 43: 2025/06/27
51: G06Q
71: RATHI, Vishal Vinod, KUMAR, Sunil, DESHMUKH, Anand B., KALANTRI, Harshawati B., DATIR, Harshal N., KHANZODE, Prachi C.
72: RATHI, Vishal Vinod, KUMAR, Sunil, DESHMUKH, Anand B., KALANTRI, Harshawati B., DATIR, Harshal N., KHANZODE, Prachi C.

54: AN EFFICIENT COIN IDENTIFICATION SYSTEM USING SOFT COMPUTING TECHNIQUE

00: -

The present invention relates to an efficient coin identification system using soft computing technique. Further, the proposed system discloses coin identification system using fundamentals of Artificial Neural Network (ANN). Wherein, outcome of the implementation at different levels of coin identification are image enhancement for different filters and wavelet method, histogram, segmentation, neural network training and testing performances.



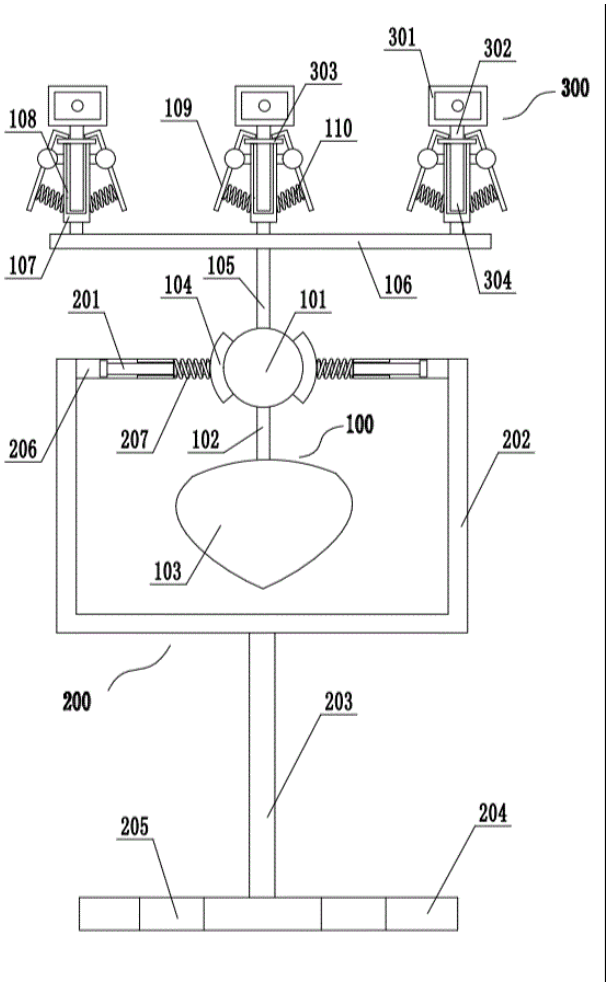
21: 2024/09493. 22: 2024/12/10. 43: 2025/06/27
51: E02D
71: East China University of Technology, DALIAN UNIVERSITY, ZHONGMEI ENGINEERING GROUP LTD, Jiangxi Zhongmei Survey and Design Institute Co., Ltd, Pearl River Hydraulic Research Institute, Pearl River Water Resources Commission of the Ministry of Water Resources, Guangzhou Municipal Engineering Group Ltd., SINOHYDRO BUREAU 7 CO., LTD
72: WANG, Zhenhua, LEI, Lele, LI, Dongwei, TAN, Guangwei, DONG, Xinwei, LIU, Xiqi, AN, Guanfeng, YANG, Junchao, LUO, Ran, GONG, Bingwen

54: DEVICE FOR UNDERGROUND ENGINEERING SAFETY MONITORING

00: -

Disclosed is a device for underground engineering safety monitoring. Includes a positioning base ball seat component. The positioning base ball seat component is rotatably arranged at a top of a fixed support frame component, and multiple sets of laser ranging components are arranged above the positioning base ball seat component. The positioning base ball seat component includes a positioning base ball head, and a bottom of the positioning base ball head is fixedly arranged with a

gravity-falling lead seat via a ball head bottom rod. The fixed support frame component includes clamping plates symmetrically arranged on left and right sides, and the clamping plates clamp on two sides of the positioning base ball head; and multiple grooves are uniformly opened on inner walls of the clamping plates. The device for underground engineering safety monitoring provided by the present invention has the characteristics of convenient use and convenient assembly and disassembly.

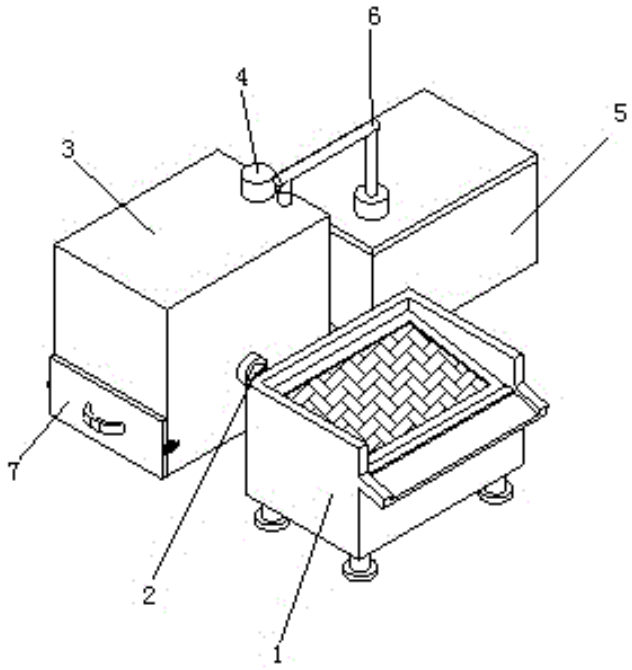


21: 2024/09494. 22: 2024/12/10. 43: 2025/06/27
51: B01D
71: Suzhou University
72: Jiang Wei, Hu Yang, Chen Suwan

54: WATER-BASED MUD TREATMENT DEVICE FOR COALBED METHANE DEVELOPMENT

00: -

The present invention relates to the technical field of water-based mud treatment, and specifically to a water-based mud treatment device for coalbed methane development. The present application includes a screening box, a conveying component is fixedly connected to a bottom end of one side of the screening box, a pressure filtration box is placed on one side of the screening box, a bottom end of one side of the pressure filtration box is connected to the conveying component, a pressure filtration component is fixedly connected to an upper end of an interior of the pressure filtration box, a dredging component is fixedly connected to a bottom of the pressure filtration box, and a detachable closing plate is mounted at the bottom end of one side of the pressure filtration box. When water-based mud is treated, screened water-based mud is conveyed to a bottom end of the interior of the pressure filtration box. At the same time, with operation of the pressure filtration component, pressure filtration is performed by internal components of the pressure filtration component on the mud to cause fine silt in the mud to quickly settle. Therefore, the silt and water are rapidly separated. Time required for natural settlement and separation of the silt and the water in the mud is shortened, and efficiency of the mud treatment is improved.



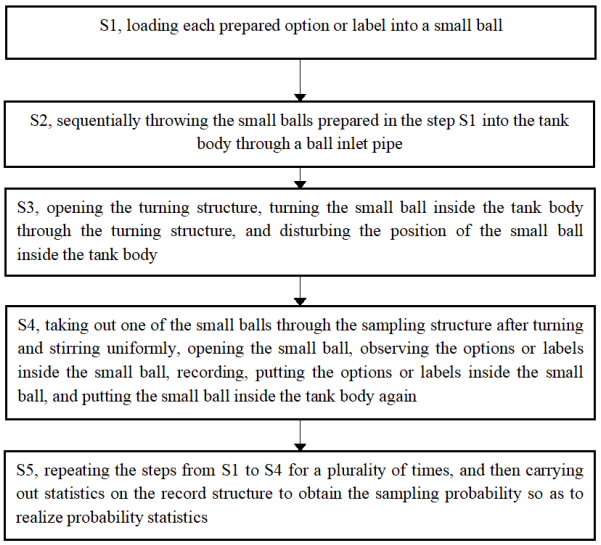
21: 2024/09495. 22: 2024/12/10. 43: 2025/06/27
51: G09B
71: Xinyu University

72: Ding Ni, Feng Daoming, Jian Chasheng, Xu Zhaosheng, Zhu Weihua, Tao Sijun

54: A STATISTICAL METHOD OF APPLIED MATHEMATICAL PROBABILITY

00: -

The application disclose a method for probability statistics of application mathematic, which relates to that technical field of data probability statistics and comprises a tank body, a cov plate, a ball inlet pipe, a lower ball pipe, a supporting leg, a turning structure, a sampling structure, a ball receiving groove and a small ball. The method is characterized by comprising the following steps of: S2, sequentially throwing the small balls prepared in the S1 into the tank body through a ball inlet pipe; S3, opening the turning structure, turning the small balls in the tank body through the turning structure, and disturbing the positions of the small balls in the tank body; And S4, taking out one of the small balls through the sampling structure after turning and stirring uniformly, opening the small ball, observing the options or labels inside the small ball, recording, putting the options or labels inside the small ball, and putting the small ball inside the tank again. According to the invention, the whole probability statistical process is simple, the randomness is large, the influence caused by external factors can be reduced, and the statistical accuracy is improved.



21: 2024/09496. 22: 2024/12/12. 43: 2025/07/01
51: A01N
71: Gansu Jiuquan Xinnongyan Seed Industry Technology Co., Ltd.

72: CHANG Guojun, HE Dan, MA Shifeng, CHANG Yu, WANG Jianle, DENG Penglong, ZHANG Fuping, WANG Yating, YANG Weicheng, YANG Wan, YANG Rongyan, ZHANG Yu, LI Hongyang, MA Jingwei, FU Yingmu

54: PESTICIDE COMPOSITION INHIBITING ONION BACTERIAL ROOT ROT AND ITS APPLICATION

00: -

The invention discloses a pesticide composition for inhibiting *onion bacterial root rot* and its application and belongs to the technical field of pesticides. The invention provides a pesticide composition for inhibiting *onion bacterial root rot*, comprising the following ingredients in weight: Trichoderma harzianum Rifai 10 parts, 15 per cent carbendazim wettable powder 7-120 parts, Chitosan oligosaccharide 1-2 parts and Humic acid 3-5 parts; the content of effective bacteria Trichoderma harzianum Rifai is ≥300 million CFU/g. The described pesticide compositions are effective in inhibiting *onion bacterial root rot*. The invention provides a method of controlling onion bacterial root rot by treating onion roots with the pesticide composition. The method is effective in controlling *onion bacterial root rot*, with a relative control effect of up to 91.2%, and the control process has low pesticide toxicity and a long persistence period.

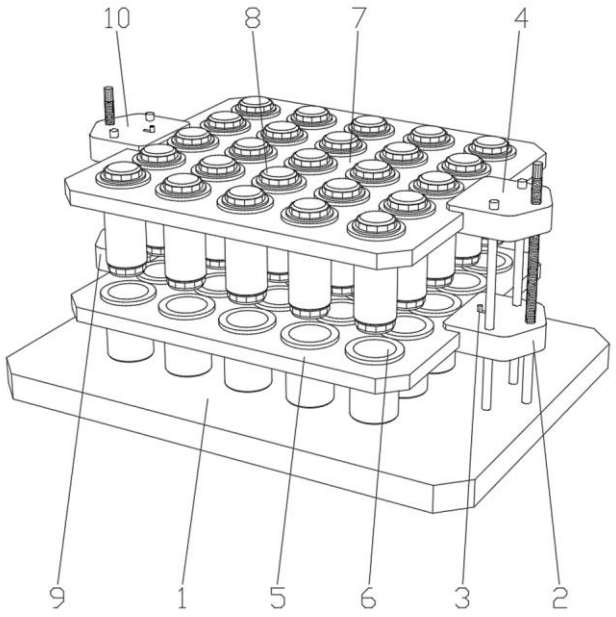
21: 2024/09497. 22: 2024/12/10. 43: 2025/06/27
51: A61K
71: Southwest Medical University
72: Zhong Min, Huang Yilan

54: REMOTE NURSING DEVICE FOR THE ELDERLY

00: -

The present invention provides a nano drug permeability experimental device for skin tumor treatment includes a base assembly, a lower adjusting seat assembly is screwed below one end of the base assembly, and an adjusting lock assembly is embedded at an interior of the lower adjusting seat assembly. An upper limiting seat assembly is sliding sleeve above one end of the base assembly, and one side end of the lower adjusting seat assembly is limited and sliding connected to a lower loading plate assembly. In the present invention, a lower semicircular buckle groove and an upper semicircular buckle groove in the lower loading plate assembly and an upper

loading plate assembly are aligned with the lower adjusting seat assembly and an upper adjusting seat assembly, and two sides of the lower loading plate assembly and the upper loading plate assembly are simultaneously inserted between the lower adjusting seat assembly, the upper limiting seat assembly and the upper adjusting seat assembly until a circular buckle head of the adjusting lock assembly is embedded in the lower semicircular buckle groove and the upper semicircular buckle groove.

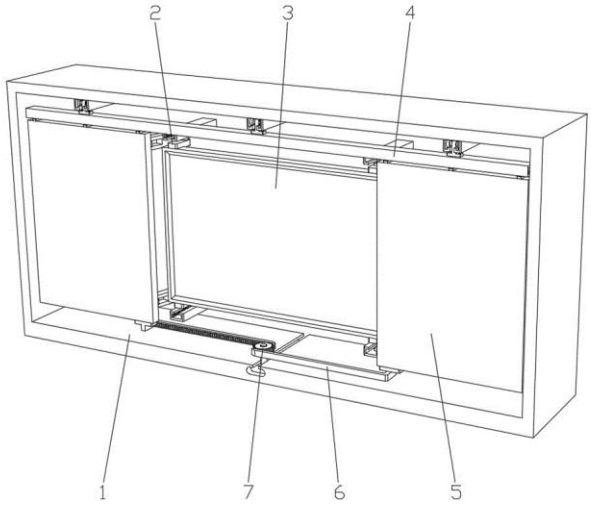


21: 2024/09498. 22: 2024/12/10. 43: 2025/06/27
51: G09B
71: Xinyu University
72: Feng Daoming, Ding Ni, Liu Kai, Huang Yulong, Huang Xinren

54: DEMONSTRATION TEACHING AIDS FOR TEACHING ORDINARY DIFFERENTIAL EQUATIONS OF ADVANCED MATHEMATICS

00: -

The present invention provides a demonstration teaching aid for teaching ordinary differential equation of advanced mathematics, comprising a teaching aid outer frame assembly, a movable adjusting assembly is limit-slidably arranged at one end of the teaching aid outer frame assembly. In the present invention, by pushing a LED display screen inward, an adjusting gear in the movable adjusting assembly is positioned in the sliding groove bar of the inner tooth surface and is driven by the inner tooth surface arranged on the inner side thereof to make a L-shaped rotating piece rotate inward. During the rotation, a driving wheel abuts against with the rear of two groups of movable plate assemblies, pushing outwards. At this time, the two groups of movable plate assemblies slide outwards through the sliding frame assembly within the slide frame sliding groove bar. Meanwhile, a synchronous gear assembly, driven by the gear rack assembly, slides outwards within the gear sliding groove until the LED display screen is retracted to the rear. At this time, the two groups of movable plate assemblies are pushed inward towards each other completes the adjustment. The structure allows for adjustment in an opposite direction as well. During use, different functions can be conveniently adjusted according to different needs.



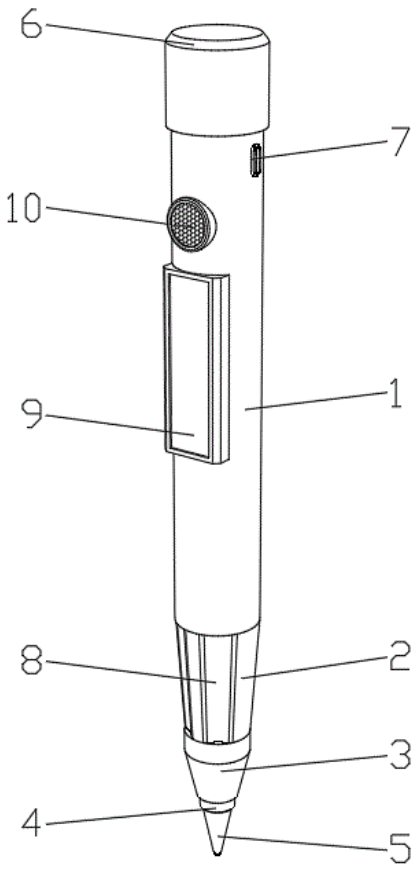
21: 2024/09499. 22: 2024/12/10. 43: 2025/06/27
51: G06F
71: Huainan Normal University
72: Peng Yanhong, An Xiaobin

54: INTELLIGENT PEN AND STROKE CORRECTION SYSTEM FOR HANDWRITING

00: -

The present invention discloses an intelligent pen and a stroke correction system for handwriting, including an intelligent pen holder body. A pen-holding finger grip rod is fixedly arranged at one end of the intelligent pen holder body. In the present invention, the intelligent pen is gripped by embedding a thumb and a fourth finger into two sets of embedded arc surfaces to correct pen-holding postures. During writing, data from an electronic gyroscope, an acceleration sensor, and a pressure sensor can be collected by the electronic gyroscope, the acceleration sensor, the pressure sensor and

touch sensor in real-time. The data collected by the sensors is processed by a microprocessor embedded in the intelligent pen, and user's writing movements can be analyzed through algorithms to instantly assess whether any errors are present. During writing, if errors are detected by the algorithms in strokes, including being too thick, too thin, or incorrect stroke order, the microprocessor will issue commands through a cue speaker. These commands will trigger auditory cues from a cue speaker to alert the user to make adjustments. Additionally, a video recording of the stroke will be displayed on an LED (light-emitting diode) display for demonstration purposes, allowing for efficient correction.

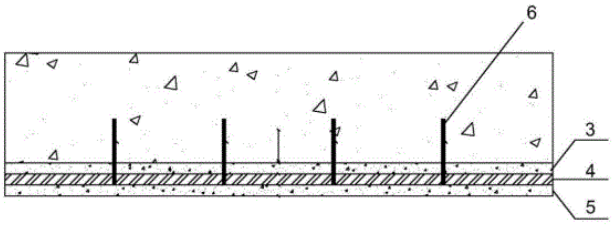


21: 2024/09526. 22: 2024/12/11. 43: 2025/06/26
51: C09J
71: Ningbo Roaby Technology Industrial Group Co., Ltd., Hefei University of Technology, China Railway Major Bridge Reconnaissance & Design Institute Co., Ltd.
72: Bin XU, Zuocai WANG, Su XU, Feng HU, Xi ZHAO, Donghui WANG, Long FAN, Shouwei CHEN

54: AN ECO MODIFIED POLYURETHANE CONCRETE REINFORCEMENT LAYER STRUCTURE AND REINFORCEMENT METHOD THEREOF

00: -

An ECO modified polyurethane concrete reinforcement layer structure and reinforcement method thereof are disclosed, which belongs to the field of double-curved arch bridge reinforcement technology, and the ECO modified polyurethane concrete reinforcement layer structure is used to reinforce the cracks of the double-curved arch bridge, wherein the structure includes an original main arch ring and an ECO modified polyurethane concrete reinforcement layer, the reinforcement layer includes an ECO modified polyurethane concrete base layer, a carbon fiber grid, an ECO modified polyurethane concrete surface layer from top to bottom in turn. By adding ECO modified polyurethane concrete reinforcement layer on the lower edge of the main arch ring with cracks to realize crack repair and reinforcement, the tensile strength of carbon fiber grid and ECO modified polyurethane concrete is fully used, the excellent bonding performance of ECO modified polyurethane concrete mortar enables the two to better integrated with the original main arch ring, so the overall stiffness of the bridge is improved, and the faults such as concrete cracking, damage and water seepage at the junction of the reinforcement layer and the original main arch ring are avoided, which reduces the life cycle cost of the arch bridge reinforcement.

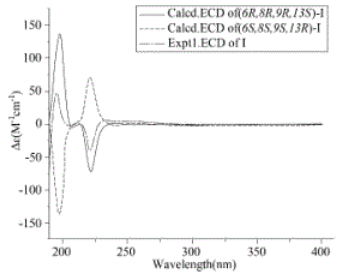


21: 2024/09527. 22: 2024/12/11. 43: 2025/06/26
51: A61J
71: HAINAN NORMAL UNIVERSITY
72: CHEN, Guangying, KUANG, Jiacai, LI, Xiaobao, YU, Zhangxin
33: CN 31: 202411468341.1 32: 2024-10-21

54: SEPARATION METHOD AND ANTI-INFLAMMATORY APPLICATION OF HALIMANE DITERPENOID

00: -

Provided are a separation method and anti-inflammatory application of a halimane diterpenoid, which belong to the technical field of traditional Chinese medicine separation. In the present application, L. ciliata is taken as a raw material and subjected to ultrasonic extraction with petroleum ether to obtain a petroleum ether extract, and then the petroleum ether extract is sequentially separated by silica gel column chromatography, reversed-phase column separation, gel column chromatography, and high performance liquid chromatography (HPLC) to obtain a target extract, that is, a halimane diterpenoid. In the present application, the halimane diterpenoid extracted from L. ciliata is an aromatized carbon-reduced halimane diterpenoid, and the pharmacological research shows that the halimane diterpenoids represented by formulae (I) and (II) have a relatively good anti-inflammatory effect, with IC50 values of 23.13±0.66 and 25.94±1.03 μM, respectively.

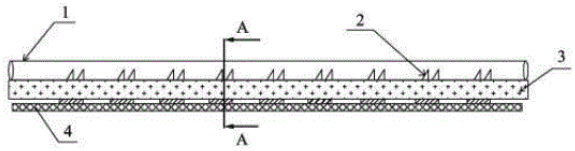


21: 2024/09529. 22: 2024/12/11. 43: 2025/06/26
51: G01L
71: North University of China
72: ZHANG, Xiangxiang, HOU, Yulong

54: PLASTIC OPTICAL FIBER SIDE-HOLE STRUCTURE QUASI-DISTRIBUTED PRESSURE SENSOR

00: -

Disclosed is a plastic optical fiber side-hole structure quasi-distributed pressure sensor, including a plastic optical fiber (POF), an elastic transparent silicone grease, a flexible LED light strip, a data processing module, and a pressure display module. The POF is embedded at the top of the elastic transparent silicone grease. The LED light strip is located at the bottom of the elastic transparent silicone grease. The LED light surface of the LED light strip is directly opposite the POF. The bottom of the POF is provided with defect structures at positions corresponding to each LED light on the LED light strip. A backward detector is connected to the left side of the POF, and a forward detector is connected to the right side of the POF. The data processing module may perform analysis based on a scanning timing of the LED light strip, and transmit results to the pressure display module.



21: 2024/09530. 22: 2024/12/11. 43: 2025/06/26
51: B01J
71: Inner Mongolia University of Science & Technology, CCTEG Chongqing Research Institute
72: Feng ZHANG, Zhigang ZHANG, Yongjiang ZHANG, Enbing YI, Hongjuan DONG

54: A HIGH-EFFICIENCY IN-SITU GAS REDUCTION AND ELIMINATION METHOD FOR THICK COAL SEAMS

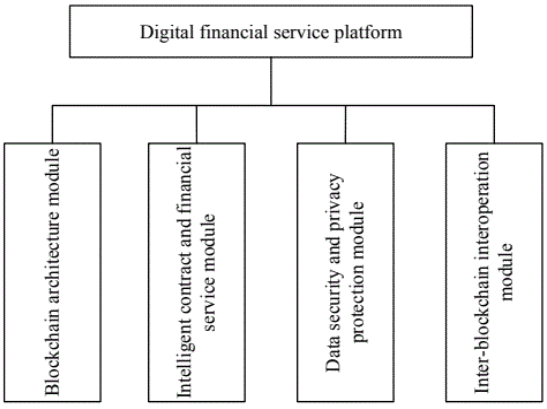
00: -

The present invention relates to a high-efficiency in-situ gas reduction and elimination method for thick coal seams, which relates to the technical field of coal mining and gas control. In the method, firstly, the geological model of coal seam is established by geological exploration, secondly, a complex volume fracture network is formed in the coal seam, and the synergistic cyclic injection technology is used to uniformly distribute the gas in-situ reduction and elimination materials. The reduction and elimination effect is ensured by monitoring the gas content in real-time and adjusting the injection parameters. At the same time, the reduction and elimination device includes injection, monitoring, data processing and recovery processing system is designed and manufactured to pre-treat the coal seam and monitor the mining process in real-time. Finally, gas extraction is performed in the region after mining, and technical evaluation and optimization are performed to form a reduction and elimination technology system suitable for different geological conditions, which effectively improves the safety and efficiency of thick coal seam mining.

21: 2024/09531. 22: 2024/12/11. 43: 2025/06/26
51: G06F
71: Jinggangshan University
72: PENG, Wei

54: DIGITAL FINANCIAL SERVICE PLATFORM BASED ON BLOCKCHAIN

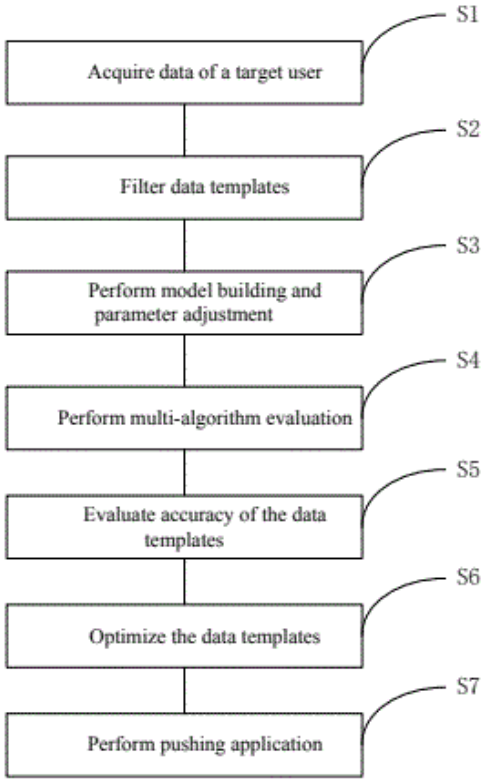
00: -
Disclosed is a digital financial service platform based on a blockchain, which relates to the technical field of digital financial services. The platform includes a blockchain architecture module, which improves transaction processing speed and throughput of a blockchain network based on an optimized consensus algorithm, and designs a modular and extendable blockchain node to satisfy the requirements of different financial scenarios; an intelligent contract and financial service module configured to realize automatic release, transaction and settlement of financial products by using an intelligent contract method; a data security and privacy protection module configured to ensure security and privacy of user data by using an encryption algorithm and a privacy protection algorithm, and establish a data access control mechanism to prevent leakage and abuse of the data; and an inter-blockchain interoperation module configured to build an inter-blockchain communication protocol and realize data exchange and asset transfer between different blockchain systems.



21: 2024/09532. 22: 2024/12/11. 43: 2025/06/26
51: G06F
71: Jinggangshan University
72: PENG, Wei

54: METHOD AND SYSTEM BASED ON DIGITAL FINANCE FOR PUSHING BIG DATA

00: -
Disclosed is a method and system based on digital finance for pushing big data, which relates to the technical field of digital finance. The method includes: acquiring data of a target user: acquiring financial behavioral data of the target user, and constructing behavioral data templates according to the acquired financial behavioral data; filtering the data templates; performing model building and parameter adjustment: building a user portrait construction model based on the filtered behavioral data templates, and adjusting parameters of the user portrait construction model by means of a machine learning algorithm; performing multi-algorithm evaluation: applying the adjusted user portrait construction model to a plurality of user portrait construction tasks, and obtaining separately evaluated representative support portrait labels; evaluating accuracy of the data templates; optimizing the data templates; and performing pushing application: based on an optimized user portrait construction model, recommending financial information to relevant users.



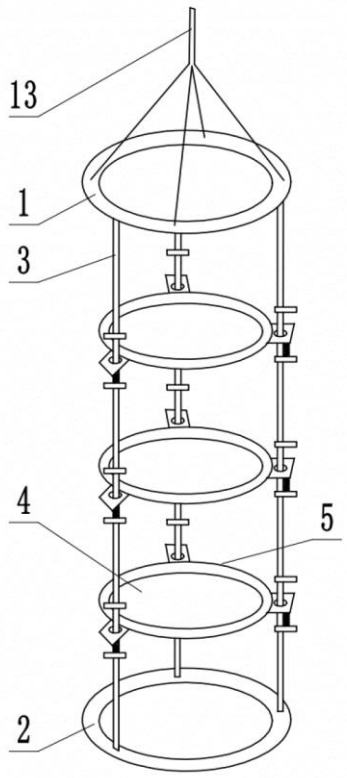
21: 2024/09533. 22: 2024/12/11. 43: 2025/06/26

51: C02F
71: Huadian Water Technology Co., Ltd.
72: CHEN, Beiyang, SHAO, Junli, ZHANG, Bo, TAO, Wenhua, WANG, Zhengping, LI, Rui, LIANG, Jiajia, XIAO, Ke

54: BIOFILM CARRIER

00: -

Disclosed is a biofilm carrier. The biofilm carrier includes an upper connecting ring, a lower connecting ring, three supporting rods, a plurality of biofilm culture units and a plurality of mounting rings, where a plurality of guide sections are arranged on the supporting rods, a top end of any guide section is fixedly provided with an upper limiting member, and a bottom end of any guide section is fixedly provided with a lower limiting member. Each mounting ring is provided with three mounting handles, and the mounting handles can move up and down along the guide sections between the upper limiting members and the lower limiting members. Springs are arranged between the mounting handles and the lower limiting members. The biofilm culture units correspond to the mounting rings one by one, outer edges of the biofilm culture units are fixedly mounted on the mounting rings.

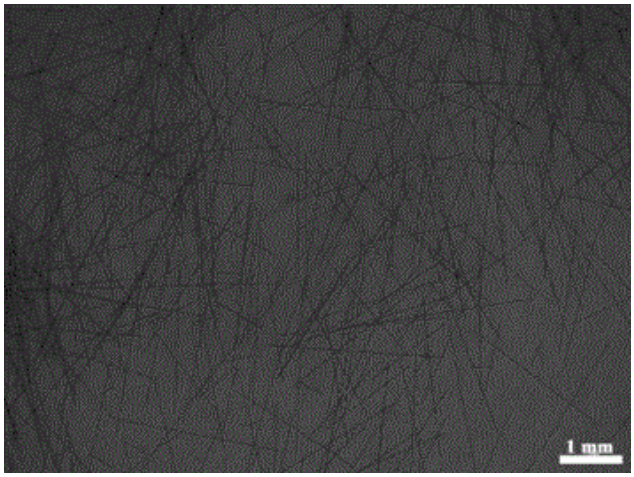


21: 2024/09534. 22: 2024/12/11. 43: 2025/06/26
51: D06M
71: Zhejiang University of Science and Technology
72: Qihang Xie, Xinyi Zhang, Yihang Wang, Kang Wang, Xibing Mao, Qianyu Sun, Tianzhong Yuan, Daliang Guo, Huifang Zhao, Lizheng Sha
33: CN 31: 2024105505449 32: 2024-05-06

54: PREPARATION METHOD FOR CARBON FIBER DISPERSION AND APPLICATION THEREOF

00: -

The present disclosure provides a preparation method for a carbon fiber dispersion and an application thereof. The method prepares the carbon fiber dispersion by first dispersing cellulose in a sodium hydroxide-urea system to obtain a cellulose suspension, and then using the above cellulose suspension as a dispersion system for carbon fibers. In the above process, the dissolved cellulose may be used to increase a viscosity of the sodium hydroxide-urea system, and when the above cellulose/sodium hydroxide-urea system with a certain viscosity is used to disperse the carbon fibers, a viscosity characteristic of the system may be used to limit a free movement of the carbon fibers, thus reducing a possibility of the carbon fibers flocculating into clusters. In addition, the cellulose may also have a limiting effect on the carbon fibers to avoid the dispersed carbon fibers from regathering, which is conducive to the dispersion of the carbon fibers, a dispersion effect of the carbon fibers may be effectively improved under the above effect, and the carbon fiber dispersion with excellent dispersibility is prepared.



21: 2024/09536. 22: 2024/12/11. 43: 2025/06/27

51: B29B
71: ZHENGZHOU SANHUA TECHNOLOGY & INDUSTRY CO., LTD.
72: HUANG, Song
33: CN 31: 2023118719174 32: 2023-12-29

54: COLORANT DISPENSER AND COLOR-PASTE OUTPOURING METHOD FOR COLORANT DISPENSER

00: -

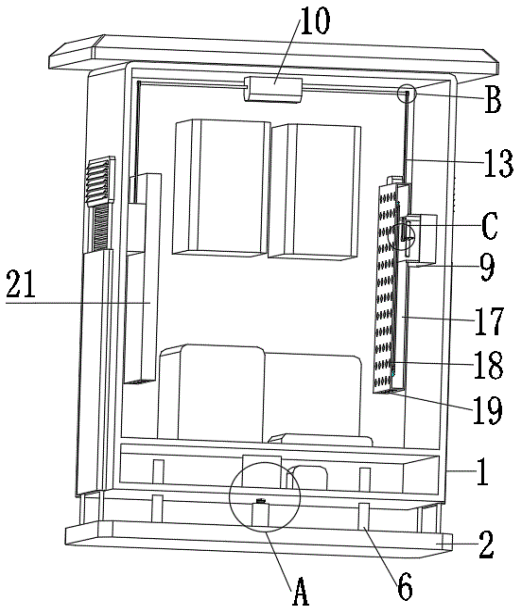
Embodiments of the present disclosure provide a colorant dispenser and a color-paste outpouring method for a colorant dispenser. The colorant dispenser includes a pump, a first container, an outpouring tube and a second container, wherein the first container is configured to accommodate a color paste; the outpouring tube has an inlet end and an outlet end, wherein the inlet end is connected to the first container through the pump, and the outlet end is used for pouring out the color paste; and the outlet end has an operating state and a non-operating state, when the outlet end is in the operating state, the color paste is pumped into the second container from the outlet end, and when the outlet end is in the non-operating state, at least a part of the outlet end is located in a moisturizing space of the first container. The colorant dispenser according to the embodiments of the present disclosure not only can moisturize the outlet end used for pouring out the color paste and reduce probability of problems of dryness and blockage occurring to the outlet end, but also can solve a problem of poor accuracy of an outpouring amount of the color paste caused by moisturizing the outlet end using a reversing valve device, a problem of wear of a valve core and a valve body and a problem of environmental pollution.

21: 2024/09539. 22: 2024/12/11. 43: 2025/06/26
51: H02B
71: Anhui Jianzhu University
72: Liu Hongyu, Wang Ping, Zhu Guang, Wang Fangbin, Zheng Yu, Li Binbin, Zhu Chi, Wang Xin, Liu Xinglong
33: CN 31: 2024101205784 32: 2024-01-29

54: MOISTUREPROOF POWER DISTRIBUTION CABINET FOR ARCHITECTURE ELECTRIC ENGINEERING

00: -

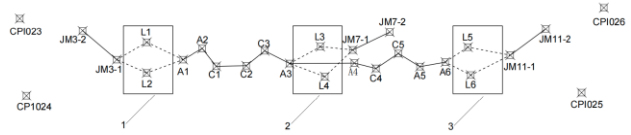
Disclosed is a moistureproof power distribution cabinet (PDC) for architecture electric engineering in the present invention, relating to the technical field of electric engineering, and a cabinet body, a base, a first dispersion box and a second dispersion box are included in the technical solution of the present invention. Support rods are mounted outside the base, and between the support rods and the cabinet body are in movable connection; a thread ring is mounted on one side of the base near the cabinet body, a single-shaft servo motor is mounted on an inner side of the cabinet body, a thread rod is mounted on an end portion of an output shaft of the single-shaft servo motor, between the thread rod and the cabinet body are in movable connection, and between the thread rod and the thread ring are in threaded connection; and sensing equipment is mounted on the inner side of the cabinet body. In the present invention, moistureproof operation for circulating ventilation inside the cabinet body is carried out through a ventilation and moistureproof component, while performing heating on wind power generated by ventilation through a heating wire heater, and temperature inside the PDC is effectively improved by the hot air, reducing water vapor content in the air, and avoiding moisture from affecting the PDC operation.



21: 2024/09540. 22: 2024/12/11. 43: 2025/06/26
51: G06Q
71: Taiyuan University of Technology
72: Sun Yaqing, Zheng Wen, Zhao Cai, Wei Kexin, Hu Zhuoyue, Rong Chenyang, Li Jiajian, Zhou Xixian, Yu Haoyang

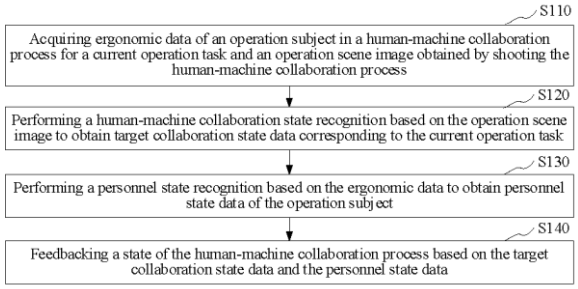
33: CN 31: 202411764130.2 32: 2024-12-03
54: ENTERPRISE DIGITAL MANAGEMENT SYSTEM
00: -
An enterprise digital management system belongs to the field of enterprise management and includes an employee management unit, a product management unit, a business management unit, a unified document management unit, an asset management unit and a management layer master control unit. The product management unit includes a self-innovate product management module, a self-innovate in-development product management module and a self-innovate pre-development product management module. The business management unit includes a purchasing business management module, a cooperative business management module and an outsourcing business management module. The unified document management unit includes an employee contract document management module, a raw material procurement contract document management module, a product sales contract management module, a sales record document management module, an enterprise project document management module and an employee assessment document management module. According to the present invention, all operations involved in enterprise operation can be managed after digital processing, so that a management layer can conveniently and quickly understand and process the enterprise operation situation.

21: 2024/09543. 22: 2024/12/11. 43: 2025/06/27
51: E21B; G01S
71: CHINA RAILWAY SIXTH GROUP CO., LTD, CHINA RAILWAY SIXTH GROUP BEIJING RAILWAY CONSTRUCTION CO., LTD
72: DONG, Tiezhong, ZHAO, Yubao, SUN, Aitian, HU, Weiming, WANG, Jibo, WANG, Taizhen, LI, Yanshuo, WANG, Liyun, LI, Zhengkun
33: CN 31: 202411416420.8 32: 2024-10-11
54: MULTI-INTERVAL THROUGH SURVEY METHOD FOR TUNNEL
00: -
The present invention is about a multi-interval through survey method for a tunnel, which relates to the technical field of rail transit engineering control survey. It includes a ground control point survey, a shaft connection survey and a connecting traverse survey in tunnel; and arranging two control points near the ground at each shaft position for GPS static measurement. Two steel wires are hung at the shaft position, and the ground data is transmitted to the control point in the tunnel by using the principle of single shaft orientation. Adjacent intervals are measured and adjusted in the form of attached conductors. In the construction of multi-section intervals, the traditional method adopts two-shaft orientation in sections, which causes the farther the distance from the middle hole position, the greater the angle deviation, which has an impact on the tunnel penetration. The measurement method of the present invention is reasonable, the measurement accuracy is high, the operability is strong, and the measurement period is short, and the influence of multi-interval penetration accuracy can be better overcome by using the attached route in each section.

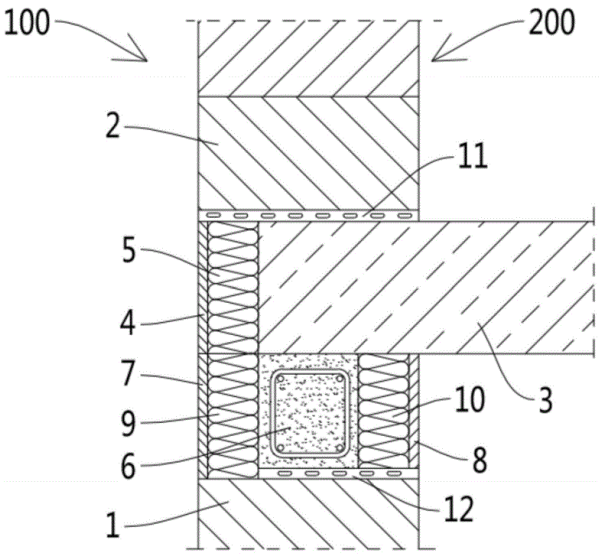


21: 2024/09544. 22: 2024/12/11. 43: 2025/07/01
51: G06F
71: KINGFAR INTERNATIONAL INC.
72: ZHAO, Qichao, WANG, Qingju
33: CN 31: 202311790016.2 32: 2023-12-22
54: METHOD AND APPARATUS FOR FEEDBACKING HUMAN-MACHINE COLLABORATION STATE BASED ON VIRTUAL-REAL INTEGRATION, AND ELECTRONIC DEVICE
00: -
Provided are a method and an apparatus for feedbacking a human-machine collaboration state based on virtual-real integration, and an electronic device. Ergonomic data of an operation subject in a human-machine collaboration process for a current operation task and an operation scene image that is obtained by shooting the human-machine collaboration process and at least includes an operation device and a setting parameter of an operation environment are acquired. A human-machine collaboration state recognition is performed based on the operation scene image to obtain target collaboration state data corresponding to the current operation task, and a personnel state recognition is performed based on the ergonomic data to obtain

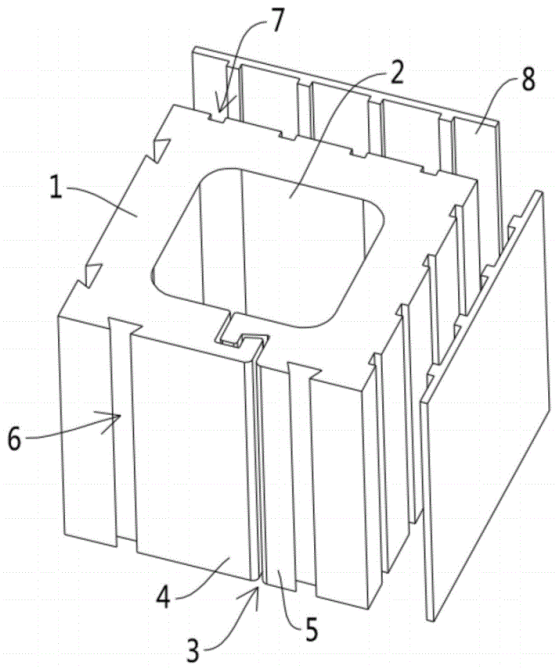
personnel state data of the operation subject. Based on the target collaboration state data and the personnel state data, a state of the human-machine collaboration process is feedbacked.



21: 2024/09545. 22: 2024/12/11. 43: 2025/06/26
51: E04B
71: Jiaxing Vocational & Technical College
72: Yu Wei, Gu Wei, Lian Hongyang
54: EXTERNAL INSULATION STRUCTURE FOR BUILDING FLOOR AND BEAM
00: -
Disclosed is an external insulation structure for building floor and beam in the present invention. A wall body with an exterior wall face and an interior wall face is included, and the wall body is formed by a lower wall body and an upper wall body above the lower wall body, and the lower wall body and the upper wall body are formed by a plurality of insulating bricks with staggered arrangement, a beam with one end extending out of the interior wall face is disposed between the lower wall body and the upper wall body, and a first brick shell flush with the exterior wall face is disposed at an end face of the other end of the beam, a first thermal insulation cotton block is disposed between the first brick shell and the beam, and the first thermal insulation cotton block and the first brick shell are further disposed between the lower wall body and the upper wall body; and a concrete reinforced column extending horizontally is disposed between the beam and the lower wall body, a second brick shell flush with the exterior wall face is disposed at an outer end of the concrete reinforced column, and a third brick shell flush with the interior wall face is disposed at an inner end. The external insulation structure for building floor and beam has the characteristics of low construction difficulty and good thermal insulation effect, with perfect overall function and strong practicability.



21: 2024/09546. 22: 2024/12/11. 43: 2025/06/26
51: E04B
71: Jiaxing Vocational & Technical College
72: Yu Wei, Gu Wei, Lian Hongyang
54: EXTERNAL WALL HEAT INSULATION COLUMN FOR BUILDING
00: -
Disclosed is an external wall heat insulation column for building in the present invention. A heat insulation column body extending vertically up and down is included, a heat insulation core hole extending along the length direction is disposed on the heat insulation column body, and penetrates through the heat insulation column body, and at least one splice gap connecting a hole wall of the heat insulation core hole to an outer wall of the heat insulation column body is disposed on a side face of the heat insulation column body; the heat insulation column body is made of flexible insulation cotton material; and a first connecting portion arranged on the heat insulation column body is disposed on one side of the splice gap, and a second connecting portion arranged on the heat insulation column body is disposed on the other side, and the second connecting portion is detachably connected to the first connecting portion. The external wall heat insulation column has the characteristics of easy installation and good insulation effect after construction, with perfect overall function and strong practicability.



21: 2024/09547. 22: 2024/12/11. 43: 2025/06/27
51: H02J
71: STATE GRID XINJIANG ELECTRIC POWER CO., LTD. CHANGJI POWER SUPPLY COMPANY
72: LIU, Rong, HE, Long, ZHU, Yongming, LIU, Gang, WANG, Hui, ZHANG, Xin
33: CN 31: 202410989883.7 32: 2024-07-23

54: EDDY CURRENT-BASED SELF-DRIVEN VOLTAGE SAG MITIGATION DEVICE AND POSITION SELECTION METHOD

00: -

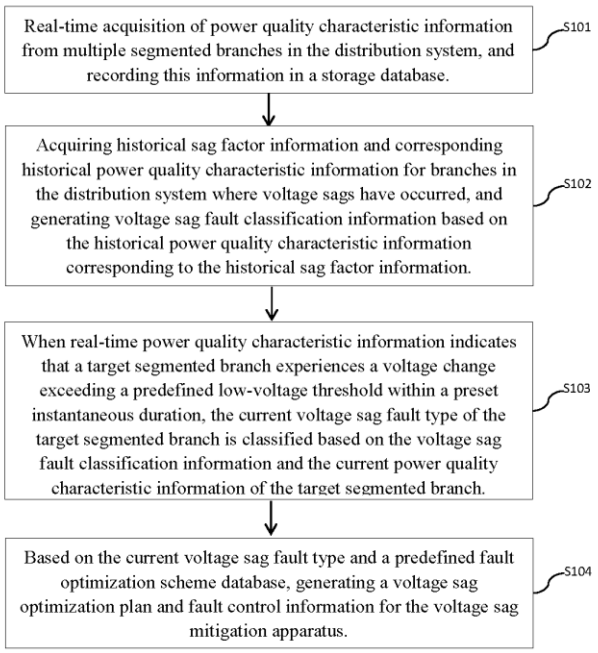
The present invention provides an eddy current-based self-driven voltage sag mitigation device and an appropriate position selection method, relating to the technical field of voltage sag mitigation. The eddy current-based self-driven voltage sag mitigation device includes: Circuit Breaker: one end connected to the bus; Eddy Current Self-Driven Fast Switch: connected in series with the circuit breaker, and the end away from the circuit breaker connected to the corresponding segmented branch; Bus Holding Impedance: connected in parallel with the eddy current self-driven fast switch, which switches to connect the bus holding impedance between the segmented branch and the bus when a voltage sag fault is detected in the branch circuit. The eddy current self-driven fast switch autonomously interrupts the fault current, allowing the bus holding impedance to switch to connect between the corresponding segmented branch and the bus, thereby reducing the impact of voltage sag faults on the bus voltage. At the same time, the eddy current self-driven fast switch reacts quickly, eliminating the need for data analysis and processing, resulting in a shorter interruption time for the segmented branch, which further decreases the impact of voltage sag on the bus.

21: 2024/09548. 22: 2024/12/11. 43: 2025/06/27
51: G06F; H02J
71: ANHUI ZHENGGUANGDIAN ELECTRIC POWER TECHNOLOGY CO., LTD, STATE GRID XINJIANG ELECTRIC POWER CO., LTD. CHANGJI POWER SUPPLY COMPANY, XI AN UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: HE, Long, ZHOU, Yi, YIN, Feng, XING, Zhanli, ZHAO, Puzhi, ZHU, Yongming, LIU, Rong, LIU, Yong, SUO, Tao, TANG, Linquan, GAO, Baoqi, LU, Gang, WANG, Hui, ZHANG, Xin, ZHAO, Shiyu, ZENG, Zhaokun, WU, Weili, LIU, Jun, LIU Jianghui, HAO Jiayin, LI Changlong
33: CN 31: 202410987146.3 32: 2024-07-23

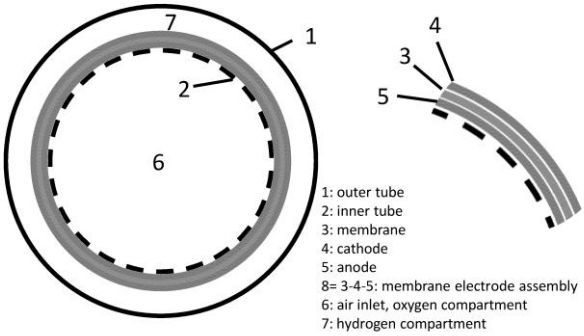
54: A METHOD, SYSTEM, AND APPARATUS FOR MITIGATING VOLTAGE SAGS IN A POWER DISTRIBUTION NETWORK

00: -

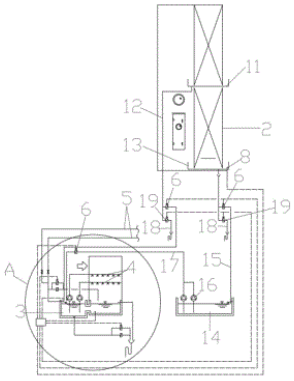
The present invention discloses a method, system, and apparatus for addressing voltage sags in a power distribution network, falling within the domain of power quality management. The method involves: Real-time acquisition of power quality characteristic data from multiple segmented branches within the distribution system; Retrieving historical information on voltage sag factors and power quality characteristics for branches where voltage sags have occurred, and generating fault classification data for these voltage sags; Identifying the voltage sag fault type of a target branch when a voltage change exceeding a predefined low-voltage threshold is detected within a specified time frame; Subsequently generating an optimization plan for voltage sag mitigation along with fault control instructions for the associated mitigation apparatus. By correlating fault types with appropriate voltage sag optimization strategies, the invention effectively addresses issues such as high-power equipment startups and heavy load connections, thereby reducing the adverse impacts of voltage sags on electrical equipment through techniques such as power supplementation.



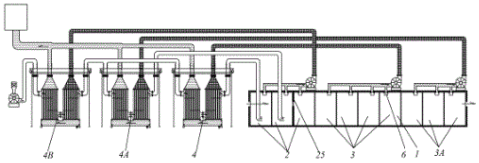
21: 2024/09556. 22: 2024/12/11. 43: 2025/06/26
51: C25B; H02S
71: SOLHYD
72: BOSSEREZ, Tom, MARTENS, Johan, RONGÉ, Jan, VERLOOY, Pieter
33: EP 31: 22173860.2 32: 2022-05-17
33: EP 31: 22216431.1 32: 2022-12-23
54: HYDROGEN PRODUCING DEVICE
00: -
The invention relates to hydrogen producing devices comprising: -An inner tube (2) with macroscopic holes, the tube having at one end an entrance opening, and at the other end an exit opening, the openings allowing entrance of moist a gas and allowing exit of a gas comprising oxygen being produced in the device respectively, -An electrode assembly (8) covering the outer surface of said tube, the assembly comprising an oxygen producing electrode (5) at the inner side of the assembly, and a hydrogen producing electrode (4) at the outer side of the assembly, the electrodes being separated from each other by a separator (3), -A liquid or solid material with hygroscopic properties.



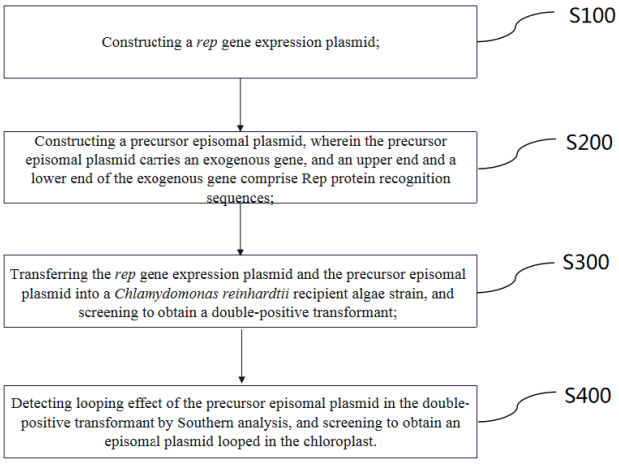
21: 2024/09557. 22: 2024/12/11. 43: 2025/07/11
51: F24F
71: BEIJING GREEN TECHNOLOGY CO., LTD
72: SHEN, Hui, JIANG, Huan, JIANG, Shiji, ZHOU, Lei, XU, Zhen, DENG, Jiewen
33: CN 31: 202310511413.5 32: 2023-05-08
54: WASHING WATER-SAVING SYSTEM FOR CLEAN AIR CONDITIONER
00: -
Disclosed is a water-efficient water-washing system for a clean air conditioner. The system includes a humidifying and water-washing device with a water tank, and a recooling device in communication with the water tank through a water storage device on which a conductivity detection device is arranged, and the water tank is in communication with a clean water source through a water supplementing pipeline on which a second electric water adding control valve is arranged. A first electric water adding control valve is arranged on a connecting pipeline. The water tank is provided with a liquid level detection device, the first electric water adding control valve, the second electric water adding control valve, the conductivity detection device and the liquid level detection device are connected to a control device that turns on or off the first electric water adding control valve or the second electric water adding control valve.



21: 2024/09558. 22: 2024/12/11. 43: 2025/06/26
51: D06C; F26B; F28D; F28F
71: SHAOXING YONGFENG ENERGY SAVING TECHNOLOGY CO., LTD
72: LAO, Guanming
33: CN 31: 202210672436.X 32: 2022-06-15
54: EFFICIENT WASTE HEAT RECOVERY SETTING MACHINE
00: -
Disclosed in the present invention is an efficient waste heat recovery setting machine. The setting machine comprises several heat recovery devices connected in series or in parallel, wherein front N oven sections of an oven body are preheating sections provided with air inlets, and the remaining ovens are divided into several connected setting sections from front to back; each setting section includes one to several oven sections; air outlets of the ovens on each setting section are in communication with one another and are connected to one corresponding heat recovery device; tail gas discharged from the ovens on the setting section enters the corresponding heat recovery device for heat exchange and cooling, and is then discharged; air outlets of the ovens on the preheating sections are in communication with one another and are also connected to one corresponding heat recovery device.



21: 2024/09574. 22: 2024/12/11. 43: 2025/06/27
51: C12N
71: SHENZHEN UNIVERSITY
72: HU, Zhangli, JIANG, Yanan, ZHANG, Guiying, GUO, Chunli, JIA, Bin, TANG, Hexing
33: CN 31: 202211501386.5 32: 2022-11-28
54: CONSTRUCTION METHOD FOR EPISOMAL PLASMIDS IN CHLAMYDOMONAS REINHARDTII CHLOROPLASTS AND USE THEREOF
00: -
A construction method for episomal plasmids in C. reinhardtii chloroplasts and use thereof are provided. A rep gene expression plasmid and a precursor episomal plasmid carrying an exogenous gene are constructed, with both ends having Rep protein recognition sequences. Then the two plasmids are co-transfected into C. reinhardtii. The Rep protein recognition sequences are recognized by means of an expressed Rep protein, and the precursor episomal plasmid is guided to be cyclized to obtain the episomal plasmid. The application is a method for constructing an episomal plasmid in the C. reinhardtii chloroplast genome to express or transcribe an exogenous gene. The method does not involve insertion of the exogenous gene into the original genome and thus does not involve a homogenization process, reducing the time for screening and enabling stable inheritance in chloroplasts, preventing loss of the exogenous gene. Additionally, the exogenous protein on the episomal plasmid can perform efficient transcription and translation. Moreover, the episomal plasmid can also be used for transcribing functional RNA.

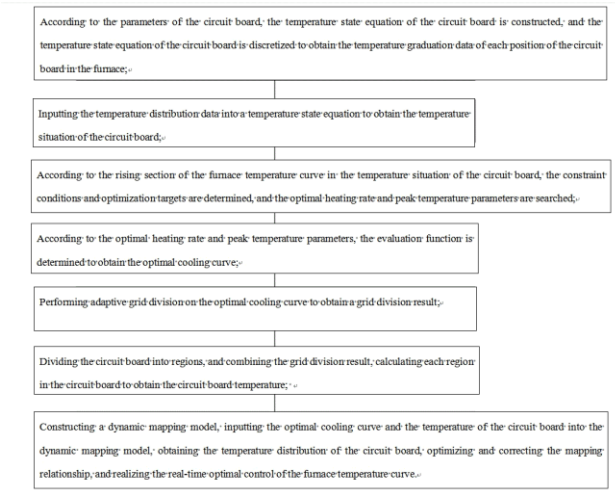


21: 2024/09584. 22: 2024/12/12. 43: 2025/06/27
51: G06F
71: Henan University of Urban Construction
72: ZHANG Xiaoguo, LIU Changsheng, HUA Pei, HUANG Xiaoya, CHEN Meng

54: OPTIMAL CONTROL METHOD OF REFLOW OVEN TEMPERATURE

00: -

The invention discloses an optimal control method for the temperature of a reflow oven, which includes the following steps: constructing a circuit board temperature state equation, discretizing the circuit board temperature state equation to obtain temperature distribution data of the circuit board at various positions in the oven; input the temperature distribution data into the temperature state equation to obtain the temperature of the circuit board; according to the rising section of the furnace temperature curve in the temperature situation of the circuit board, the constraint conditions and optimization objectives are determined, and the optimal heating rate and peak temperature parameters are searched; according to the optimal heating rate and peak temperature parameters, the evaluation function is determined to obtain the optimal cooling curve; carrying out adaptive grid division on the optimal cooling curve to obtain a grid division result; dividing the circuit board into regions, and combining the grid division results, calculating each region in the circuit board to obtain the circuit board temperature; a dynamic mapping model is constructed, and the optimal cooling curve and circuit board temperature are input into the dynamic mapping model to obtain the circuit board temperature distribution.

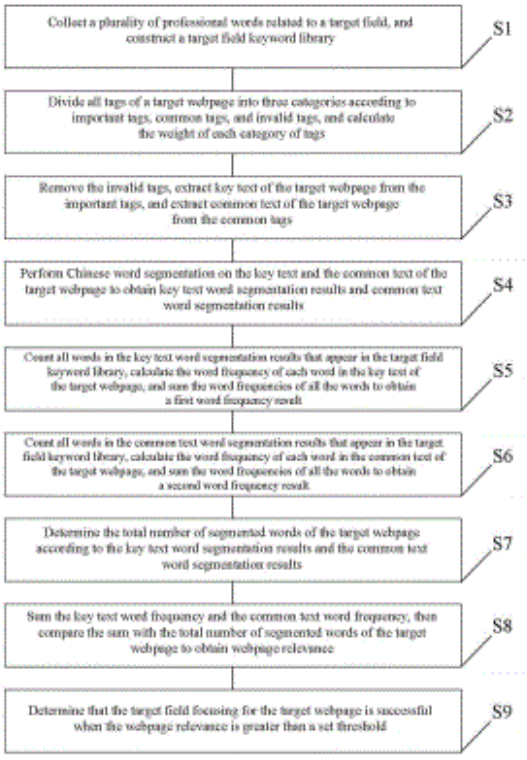


21: 2024/09585. 22: 2024/12/12. 43: 2025/06/26
51: G06F
71: Shandong University of Finance and Economics
72: YUE, Houguang

54: METHOD FOR FIELD FOCUSING BASED ON WEBPAGE KEYWORDS AND SYSTEM

00: -

The present application discloses a method for field focusing based on webpage keywords and a system. The method includes: dividing all tags of a target webpage into important tags, common tags, and invalid tags, and calculating the weight of each category of tags; removing the invalid tags, extracting key text and common text; performing Chinese word segmentation on the key text and the common text of the target webpage to obtain key text word segmentation results and common text word segmentation results; determining the total number of segmented words of the target webpage; summing the key text word frequency and the common text word frequency, then comparing the sum with the total number of segmented words of the target webpage to obtain webpage relevance; and determining that the target field focusing for the target webpage is successful when the webpage relevance is greater than a set threshold.



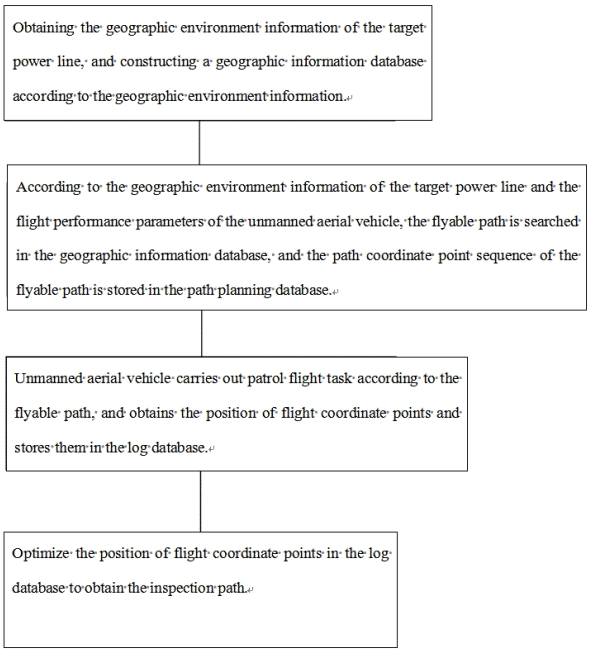
21: 2024/09586. 22: 2024/12/12. 43: 2025/06/27
51: G05D
71: Henan University of Urban Construction

72: ZHANG Xiaoguo, MU Jingjing, HUANG Xiaoya, HU Sumin, XU Huafeng

54: A PATROL PATH PLANNING METHOD FOR AN ELECTRIC UNMANNED AERIAL VEHICLE

00: -

The invention relates to a patrol path planning method for an electric unmanned aerial vehicle, which includes the following steps: acquiring geographic environment information of a target power line, and constructing a geographic information database according to the geographic environment information, where the geographic environment information includes position coordinates and height attributes of obstacles, and starting point coordinates and ending point coordinates of the target power line; searching a flyable path in the geographic information database according to the geographic environment information of the target power line and the flight performance parameters of the unmanned aerial vehicle, and storing the path coordinate point sequence of the flyable path in a path planning database; the unmanned aerial vehicle performs a patrol flight task according to the flyable path, obtains the position of the flight coordinate point and stores it in a log database; optimizing the position of the flight coordinate points in the log database to obtain the patrol path. The invention realizes the intelligent path planning and real-time obstacle avoidance of the unmanned aerial vehicle patrol inspection of the power line.



21: 2024/09587. 22: 2024/12/12. 43: 2025/06/26

51: B60Q; E01F

71: Yunfeng Li

72: Yunfeng Li

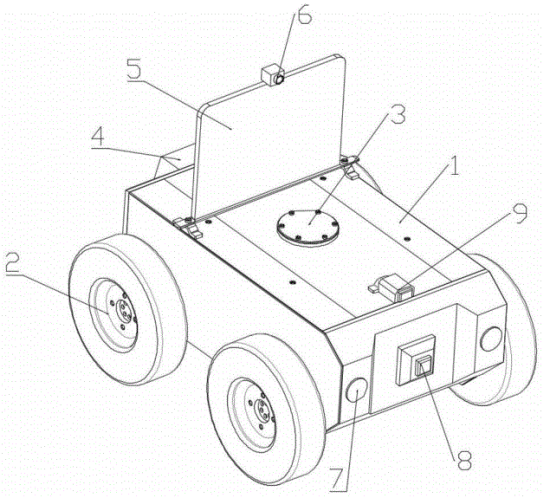
33: CN 31: 202410791061.8 32: 2024-06-19

54: MOBILE MAINTENANCE OPERATION SIGN VEHICLE

00: -

A mobile maintenance operation sign vehicle: including a vehicle body; a bottom of the vehicle body is equipped with a walking portion, the vehicle body is equipped with a built-in control portion, a front end of the vehicle body is equipped with a range finder, a front part of an upper side of the vehicle body is equipped with an electronic display screen, the electronic display screen is equipped with a camera, a rear end of the vehicle body is equipped with warning lights and a collision sensor, and an alarm is equipped at a rear end of the upper side of the vehicle body; the use of the sign vehicle can be realized with the cooperation with the operation vehicle, and a plurality of warning methods such as sound and light, safety color, distance formed by the sign vehicle achieves the driving vehicle to actively avoid risk, to protect safety of passage of vehicle and maintenance operations, at the same time combined with the collision sensors and cameras, to further improve its safety. The sign vehicle in the form of unmanned can effectively reduce the cost, at the same time it adopts the

compact structure form, reduces the injury for driving vehicles and personnel caused by the collision, and can effectively improves the safety of operation vehicle as well as the driving vehicle.

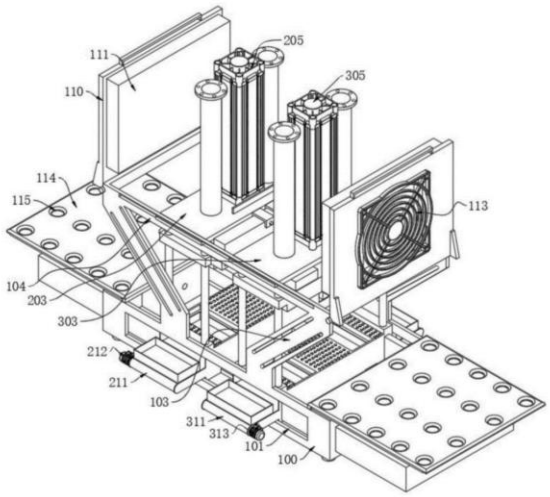


21: 2024/09588. 22: 2024/12/12. 43: 2025/06/27
51: G01N
71: Tarim University
72: MA Jiale, ZHANG Yongcheng, CHEN Peiyu, MAO Biqi, LAN Haipeng, LU Dengning, ZHANG Hong
33: CN 31: 2024116130085 32: 2024-11-13

54: A DETECTION DEVICE FOR REGENERATED POLYESTER AND COTTON FUNCTIONAL FABRIC

00: -

The invention discloses a detection device for regenerated polyester and cotton functional fabrics, relating to the field of fabric detection technology. The device includes a base, which is equipped with a track. Sliding connections on the track include a first clamping platform and a second clamping platform, both of which have clamping mechanisms for securing the fabric onto them. The base is also equipped with a first driving unit and a second driving unit, which are used to drive the first and second clamping platforms to move closer to or farther from each other. Additionally, the first and second clamping platforms are each equipped with a first drainage groove and a second drainage groove. Above the first and second drainage grooves, there are corresponding moisture absorption testing mechanisms. This invention can provide a stable, controllable, quantitative, simple, and highly applicable effect, allowing for quick completion of detection experiments and offering the advantage of easy maintenance.



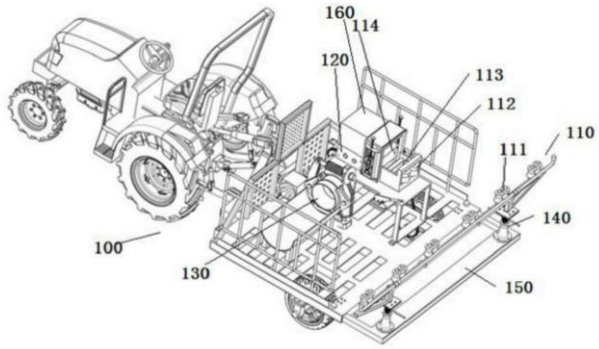
21: 2024/09589. 22: 2024/12/12. 43: 2025/06/26
51: B65H
71: Tarim University
72: MA Jiale, ZHANG Yongcheng, CHEN Peiyu, MAO Biqi, LAN Haipeng
33: CN 31: 2024116131374 32: 2024-11-13

54: A DRIP IRRIGATION TAPE RECYCLING AND PACKAGING MACHINE

00: -

The invention relates to the field of drip irrigation tape recycling and packaging technology, specifically to a drip irrigation tape recycling and packaging machine. It includes a machine body, which comprises: a guiding roller section, used to guide multiple drip irrigation tapes to be recycled simultaneously. A crushing roller, designed to receive and crush the multiple drip irrigation tapes guided by the recycling roller section. A packaging pipeline, used to receive the crushed drip irrigation tapes; the tapes within the packaging pipeline can be pushed into a packaging unit located at the outlet of the packaging pipeline. A partition is set between the guiding roller section and the crushing roller, with the outer wall of the partition on the side facing the guiding roller section forming an upwardly inclined guiding surface. The recycling and packaging machine integrates the guiding roller section, crushing roller, and packaging pipeline, which are used for guiding, crushing, and packaging respectively, to achieve integrated recycling and packaging. Furthermore, the guiding surface of the

partition reduces the mutual influence between the two processes of guiding and crushing.

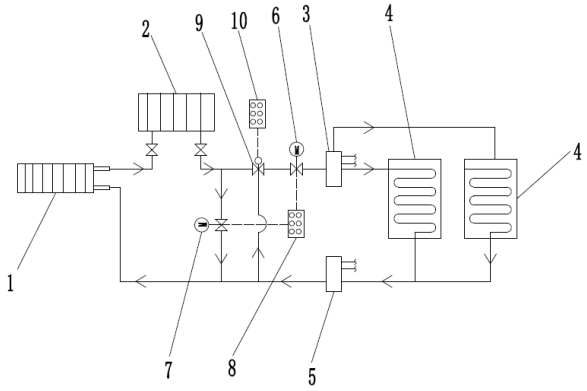


21: 2024/09592. 22: 2024/12/12. 43: 2025/06/27
51: F04F
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: DONG, Shanshan, GAO, Shuning, JIN, Junjie, GAO, Jinhui, HENG, Lijun, KONG, Youfang, HOU, Hongjie

54: HIGH-EFFICIENCY AND ENERGY-SAVING AIR CONDITIONING SYSTEM WITH DEHUMIDIFICATION FUNCTION

00: -

Disclosed is a high-efficiency energy-saving air conditioning system with dehumidification function, comprising a water chiller, a breathing type gravity air conditioning wall, a water distributor, a plurality of first capillary network, a water collector and a valve assembly; there is a second capillary net in the wall of the breathing type gravity air conditioner; the water outlet of the water chiller is connected with the water inlet of the second capillary network; the water outlet of the second capillary network is connected with two pipelines, one of which is connected with multiple first capillary networks through the water distributor, and the other directly connected with the water inlet of the water chiller, the water outlet of the first capillary network is connected to the water inlet of the water chiller after the water collector, the other part connected to the pipeline between the second capillary network and the water distributor.

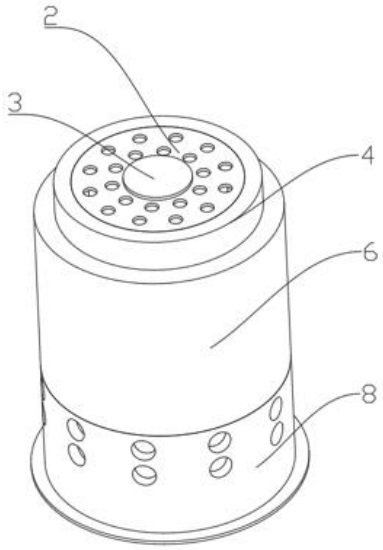


21: 2024/09593. 22: 2024/12/12. 43: 2025/06/27
51: A61H
71: SHANXI MEDICAL UNIVERSITY
72: WANG, Jun, LI, Yunlan, GUO, Lina, WU, Jiayi, LIU, Weiran, LI, Lin

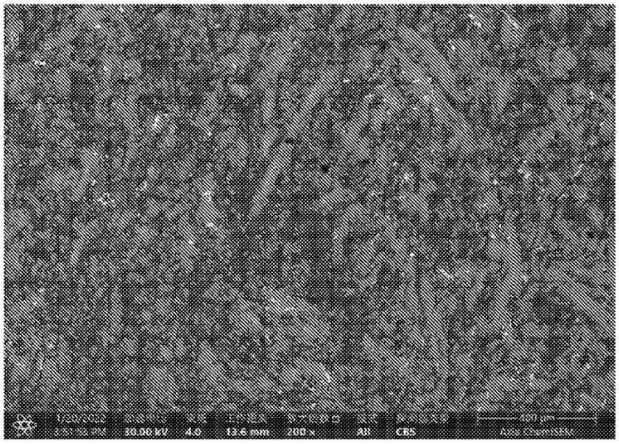
54: MULTI-HEAD INFRARED SUSPENSION MOXIBUSTION INSTRUMENT

00: -

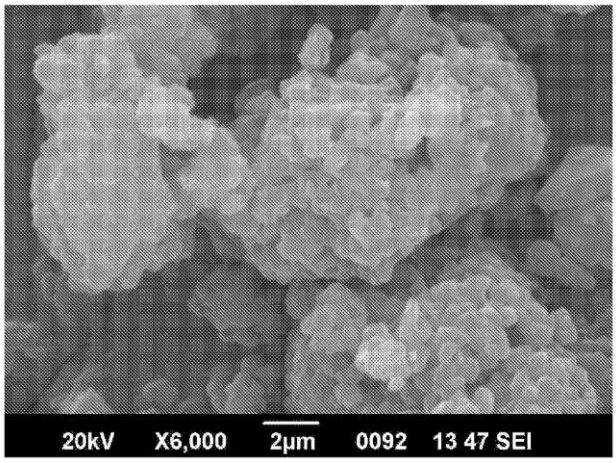
The invention relates to the field of medical appliances, specifically a multi-head infrared suspension moxibustion instrument. It includes an upper shell with a composite smokeless filter screen cover at the top to absorb smoke from burning moxa cones. A moxa cone mounting part is located within the shell to secure the cones, while a combustion control part at the bottom adjusts the burning speed. The bottom of the device features a skin contact part, ensuring safe spacing between the moxa cone and the skin. The moxa cone side wall connects to multiple side joints with switch valves, leading to moxibustion components. The composite smokeless filter effectively removes harmful substances from the smoke, improving safety and comfort. It also prevents blockages caused by moxa ash and oil, ensuring optimal therapeutic effects and enhancing usability.



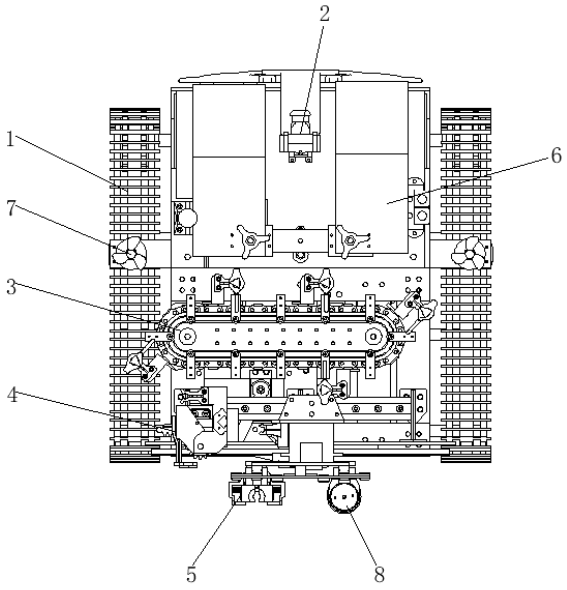
21: 2024/09597. 22: 2024/12/12. 43: 2025/06/27
51: C22C
71: DALIAN KETIAN NEW MATERIAL CO., LTD.
72: WANG, Hanguang, SHI, Guodong, WANG, Puguang
33: CN 31: 202210690474.8 32: 2022-06-17
54: ALUMINUM ALLOY ADDITIVE, AND PREPARATION METHOD THEREFOR AND USE THEREOF
00: -
The present disclosure provides an aluminum alloy additive, and a preparation method therefor and the use thereof. The aluminum alloy additive comprises the following components in mass percentage: TiB2: 5%-25%, Mn: 14%-20%, impurities: less than or equal to 1%, and the balance Al. According to the present disclosure, for different aluminum alloy systems, the mass ratio of TiB2 to Mn is adjusted, "alloyed-refined-strengthened" one-time addition is achieved, the as-cast structure of an aluminum alloy can be improved, the grain size is reduced, and the tensile strength and the yield strength of the aluminum alloy are improved; in addition, the morphology of a Fe phase affecting mechanical properties in the aluminum alloy is improved, the harmful effect of the impurity Fe in casting the aluminum alloy is eliminated, and thus the aluminum alloy into which the aluminum alloy additive is added exhibits good microstructure and mechanical properties; the addition steps are simple, and the addition conditions are mild.



21: 2024/09615. 22: 2024/12/12. 43: 2025/06/26
51: A61K; C07F
71: ARJUNA NATURAL PRIVATE LIMITED
72: ANTONY, Benny
33: IN 31: 202241027627 32: 2022-05-13
54: DIARYLHEPTANOID BASED MEDICINAL PREPARATION AND METHOD OF PREPARATION OF THE SAME
00: -
The disclosure pertains to a medicinal preparation having a mixture of diarylheptanoid complexes and essential oil of turmeric embedded in diarylheptanoid metal complex. It also discloses a method of preparation in which the complex is formed by the reaction of diarylheptanoids with a cation in the presence of oil. Diarylheptanoid metal complexes with embedded oil show improvement in the general health of avians and mammals. Improvements in avians and mammals health include reduced mortality, improved weight gain, improved meat quality, improved bone density, improved eggshell thickness, improved immunomodulatory activity, improved liver conditions, and reduced occurrence of drug- induced dyslipidaemia. It is also found that said medicinal preparation is very effective in the prevention of the incidence of udder inflammation and in the treatment of hypocalcemia, Alzheimer's disease, and stress related issues. It has antioxidant activity as well as improved analgesic properties.

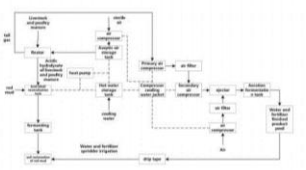


21: 2024/09621. 22: 2024/12/12. 43: 2025/06/30
51: A61K
71: SICHUAN AEROSPACE VOCATIONAL COLLEGE
72: LIU, Qingjie, WANG, Zhou, PENG, Shineng, QING, Siguang, DENG, Sizhu, WU, Hongtao
33: IB 31: PCT/CN2023/095260 32: 2023-05-19
33: CN 31: 2022105581195 32: 2022-05-21
54: AUTOMATIC CORAL PLANTING DEVICE AND CORAL PLANTING METHOD
00: -
The invention discloses an automatic coral planting device and a coral planting method. The device includes a vehicle body, where a control cabin used for installing remote transmission and control components is arranged in the vehicle body; the vehicle body is provided with a driving component; the vehicle body is provided with an inventory driving chain located at a coral seedling storage cabin; the transfer direction of the inventory driving chain is provided with a coral transfer hand; the coral transfer hand transfers the coral seedlings to a planting buckle of the vehicle body; the planting buckle is provided with a planting component that moves up and down; one side of the planting buckle is also provided with a drilling component for drilling holes for planting corals, and the car body is also provided with a rotating transmission structure for steering and transmitting coral seedlings.



21: 2024/09626. 22: 2024/12/13. 43: 2025/06/30
51: B09C
71: Guangxi University
72: HUANG, Fuchuan, LI, Zhenpeng, LI, Kangchun, DOU, Mingyuan, YANG, Jing, FENG, Qing, ZOU, Shuai, DENG, Fukang, YANG, Maoli, TANG, Gongbin, YAN, Dongmei, MAI, Ziwei, LI, Jun
33: CN 31: 202410200040.4 32: 2024-02-22
54: METHOD AND DEVICE FOR FULLY QUANTIFYING SOIL BIOLOGICAL ACTIVITY RECLAMATION OF RED MUD BY BIOLOGICAL METHOD
00: -
Disclosed are a method and device for fully quantifying soil biological activity reclamation using biological red mud. The method comprises: S10 mixing sugarcane pulp powder and red mud; S20 introduces livestock manure and the first composite formula bacterial strain into the bioreactor, introducing sterile air and maintaining a certain temperature and pressure. The fermentation substrate forms an internal circulation under the action of airflow and guide tube, and becomes an acidic substance under the action of microbial bacteria; S30 neutralizes the acidic hydrolysate and red mud in a neutralization waste heat recovery reaction tank, producing a slurry like output, and then undergoes pressure filtration to generate filter sludge; S40 adds soil amendments or bio organic fertilizers, and a second compound formula bacterial strain, to the filter mud to increase its organic matter content and soil biological activity; S50 completes

soil degradation through the combined action of multiple microorganisms.

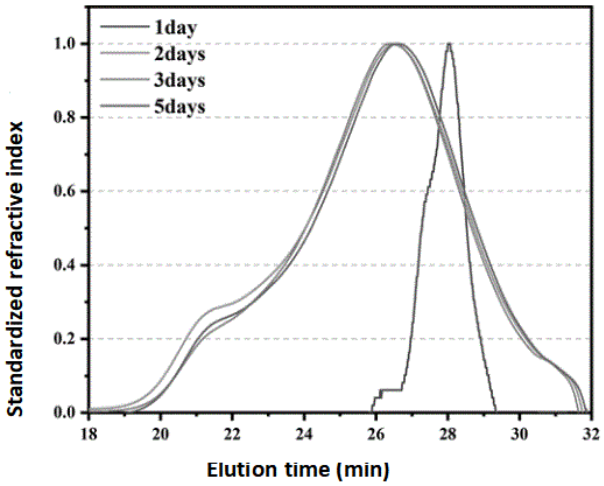


21: 2024/09627. 22: 2024/12/13. 43: 2025/06/30
51: C12N; C12Q
71: Liaoning Rice Research Institute
72: MA, Dianrong, ZHENG, Wenjing, WANG, Lili, WANG, Yan, ZHANG, Xue, ZHANG, Liangkun
54: APPLICATION OF PRIMER PAIR FOR SCREENING BROAD-SPECTRUM NECK-BLAST-RESISTANT RICE GERMPLASM SOURCES
00: -
The present invention provides an application of a primer pair for screening broad-spectrum neck-blast-resistant rice germplasm sources and belongs to the field of molecular biology. The primer pair consists of a forward primer with a nucleotide sequence as shown in SEQ ID NO.1 and a reverse primer with a nucleotide sequence as shown in SEQ ID NO.2. The primer pair is capable of detecting the presence or absence of the Pi65(t) gene in each single plant of cross-breeding progenies, and rapidly screening the broad-spectrum neck-blast-resistant rice germplasm sources; moreover, the primer pair is convenient and efficient, not subject to limitations of conditions such as weather and environment, and highly accurate to improve the efficiency of selection and breeding of disease-resistant varieties and reduce the workload of field identification.

21: 2024/09630. 22: 2024/12/13. 43: 2025/06/30
51: A61K
71: Yiming Ren
72: Yiming Ren
54: A TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING THYROID NODULES, BREAST NODULES AND LUNG NODULES
00: -
The invention belongs to the technical field of traditional Chinese medicine, in particular relates to a traditional Chinese medicine composition for treating thyroid nodules, breast nodules and lung nodules, which comprises the following raw materials in weight: 20-40 portions of selfheal, 12-20 portions of radix scrophulariae, 12-20 portions of halitum, 10-20 portions of seaweed, 10-20 portions of thunberg fritillary bulb, 10-20 portions of mint, 10-20 portions of radices trichosanthis, 10-20 portions of burnt clam shell, 10-20 portions of ampelopsis japonica, 10-20 portions of forsythia, 10-20 portions of cooked rhubarb, 10-20 portions of kelp, 10-20 portions of cuttlebone, 10-20 portions of clam shell, 10-20 portions of laminae, 10-20 portions of radix angelicae, 10-20 portions of the rhizome of chuanxiong, 10-20 portions of costustoot, 10-20 portions of calcined whelk, 5-20 portions of liquorice, 5-20 portions of radices rehmanniae, 5-20 portions of platycodon grandiflorus, 5-20 portions of fructus aurantii, 5-20 portions of angelica sinensis, 5-20 portions of compound of glauber-salt and liquorice. The formula design of the traditional Chinese medicine composition of the invention is scientific and reasonable, and the treatment of thyroid nodule, breast nodule and lung nodule has remarkable curative effect.

21: 2024/09631. 22: 2024/12/13. 43: 2025/06/26
51: G01N
71: CCCC FIRST HIGHWAY FIFTH ENGINEERING CO LTD, CHINA FIRST HIGHWAY ENGINEERING CO., LTD., Dalian University of Technology, CHANG'AN UNIVERSITY
72: HAN, Zhanchuang, LI, Mingchen, WANG, Xuehai, DOU, Wenju, XING, Chengwei, MAO, Yunbo, ZHAO, Mingjie, CHEN, Pengfei, WANG, Shaoyong, HUANG, Xiaolei
54: METHOD FOR PRETREATMENT OF ASPHALT MIXTURE AND METHOD FOR DETECTING ASPHALT IN ASPHALT MIXTURE
00: -
The present invention relates to the technical field of analysis and detection, and in particular to a method for pretreatment of asphalt mixture and a method for detecting asphalt in asphalt mixture. In the method for pretreatment provided by the present invention, the asphalt mixture to be tested is sieved, the sample to be tested with a particle size > 1.18 mm is taken for subsequent treatment, and the thickness of an asphalt film on a surface of the asphalt mixture to be tested with the particle size is suitable. The variability of data is small, which enhances the accuracy of detection results. Moreover, the present invention adopts mobile phase tetrahydrofuran used

in the gel permeation chromatography as a solvent to dissolve the asphalt in the asphalt mixture, does not need to evaporate and recover the solvent, having simple and convenient operation and improving accuracy of detection results.

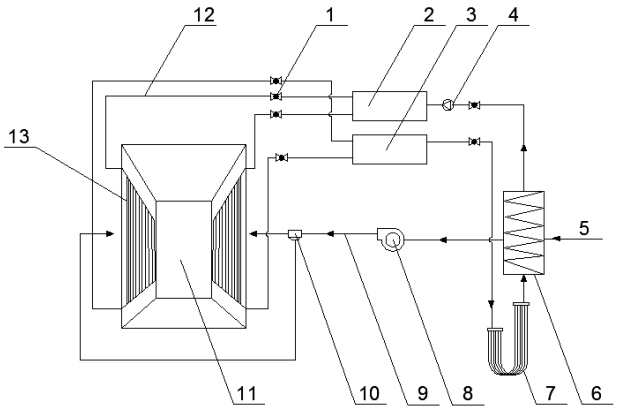


21: 2024/09632. 22: 2024/12/13. 43: 2025/06/30
51: F24F
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: GAO, Shuning, DONG, Shanshan, JIN, Junjie, GAO, Jinhui, HENG; Lijun, KONG, Youfang, HOU, Hongjie

54: CAPILLARY AIR CONDITIONING SYSTEM BASED ON GROUND SOURCE HEAT PUMP

00: -

The invention relates to a capillary air conditioning system based on a ground source heat pump. It includes a capillary network within a breathing gravity air conditioning wall of an air-conditioned room, an underground heat exchange coil, and an air outlet for exhausting indoor air. The output of the underground heat exchange coil connects to a heat exchanger, which links to the capillary network via a water separator, while the network's output returns to the coil through a water collector. The heat exchanger has a fresh air inlet and outlet, with the outlet connected to an outdoor air inlet on the air conditioning wall via a fresh air pipeline. The capillary air conditioning wall also features an indoor return air outlet communicating with the room. This system efficiently integrates air exchange and cooling/heating through the capillary network and ground source heat pump for energy-saving climate control.

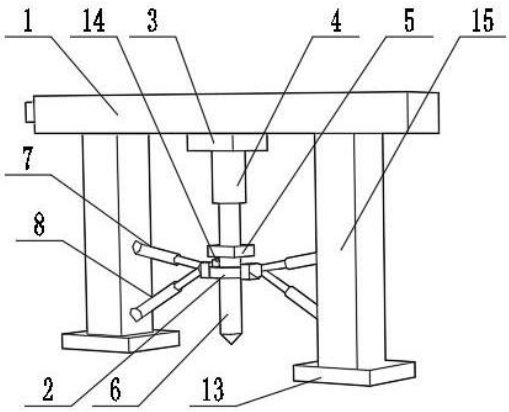


21: 2024/09633. 22: 2024/12/13. 43: 2025/06/30
51: E21B; G01N
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: ZHANG, Tingting, HU, Hui, LIU, Biao, WANG, Yunqiu, ZHANG, Ruibo

54: DEVICE FOR COLLECTING PLANT ROOT LAYER SOIL SAMPLES

00: -

The invention provides a device for collecting plant root layer soil samples, which belongs to the technical field of soil collection, and comprises a positioning box, wherein a moving component is arranged in the positioning box, and the moving component is fixedly connected with symmetrically arranged upright posts; a lifting component is installed at the bottom of the positioning box, and the collecting component is fixedly connected with the lifting component; a fixed ring is rotatably connected with the outside of the collecting component; and symmetrically arranged support components are arranged on both sides of the fixed ring, and the support components are hinged with the upright posts respectively. Place the upright post near the position where soil needs to be collected, and open the lifting assembly, so that the lifting assembly can collect the soil around the plant root layer with the collecting assembly.

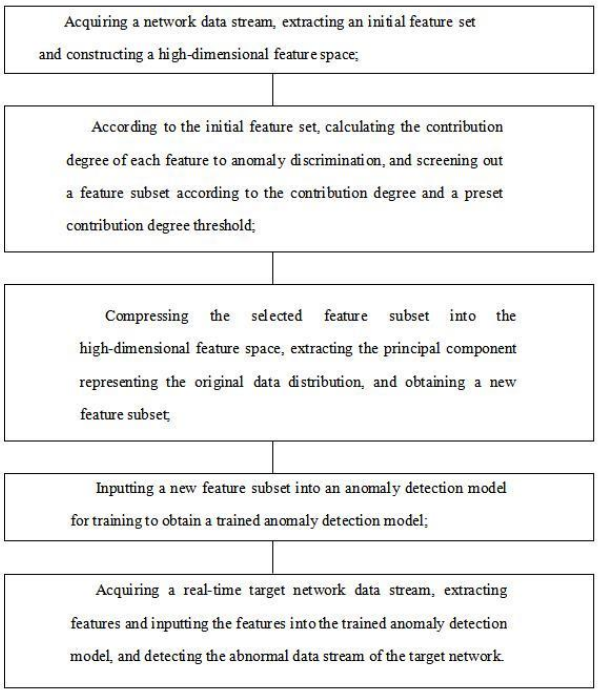


21: 2024/09634. 22: 2024/12/13. 43: 2025/06/30
51: G06F; H04L
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: SHI, Yue

54: NETWORK ANOMALY DETECTION METHOD BASED ON HIGH-DIMENSIONAL STATISTICS

00: -

The invention discloses a network anomaly detection method based on high-dimensional statistics, which comprises the following steps: acquiring a network data stream, extracting an initial feature set, and constructing a high-dimensional feature space; according to the initial feature set, calculating the contribution degree of each feature to anomaly discrimination, and screening out a feature subset according to the contribution degree and a preset contribution degree threshold; compressing the selected feature subset into the high-dimensional feature space, extracting the principal component representing the original data distribution, and obtaining a new feature subset; inputting a new feature subset into an anomaly detection model for training to obtain a trained anomaly detection model; acquiring a real-time target network data stream, extracting features and inputting the features into the trained anomaly detection model, and detecting the abnormal data stream of the target network. The invention improves the accuracy of network anomaly detection.

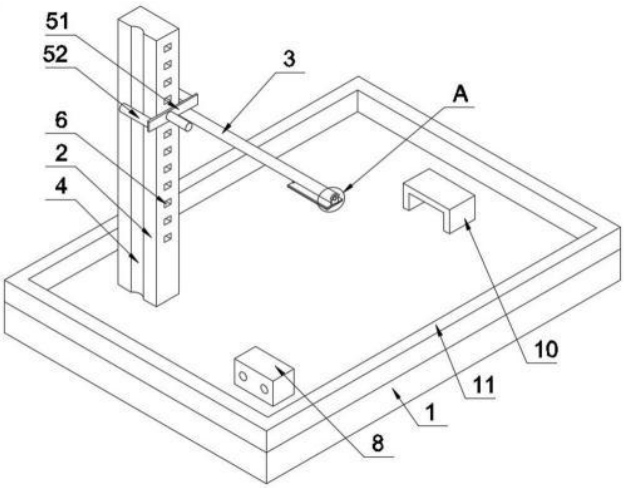


21: 2024/09635. 22: 2024/12/13. 43: 2025/06/30
51: G09B
71: JIAXING VOCATIONAL & TECHNICAL COLLEGE
72: YANG, Xuemei

54: A HIGH-STABILITY TEACHING DEMONSTRATION DEVICE

00: -

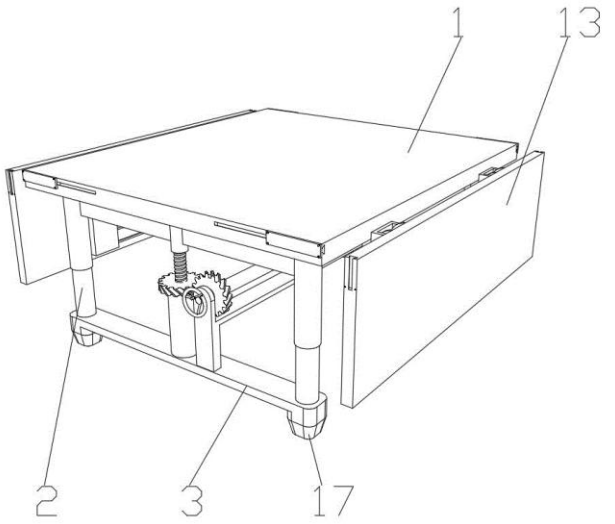
The invention describes a high-stability teaching demonstration device comprising a bottom plate, a first connecting plate movably clamped to its top, and a second connecting plate on one side. Both the first and second connecting plates feature chutes. A limiting device between the connecting plates includes a third connecting plate, positioning rods, a handle, and a card block. The third connecting plate is slidably clamped to the first connecting plate, with positioning rods fixed on its sides and a handle for operation. The handle moves the positioning rods, disengaging them from the connecting plates, allowing steel balls to roll simultaneously on both plates. This design enhances test accuracy. The coordinated use of the connecting plates, limiting device, positioning rods, and handle ensures reliable operation, making the device suitable for high-precision teaching demonstrations.



21: 2024/09638. 22: 2024/12/13. 43: 2025/06/30
51: A47B
71: Henan University of Urban Construction
72: Qiusi Mao, Yingxin Zhang, Ying Wang, Yi Zhang, Wanying Wu

54: A TEACHING DESK FOR MUSIC EDUCATION

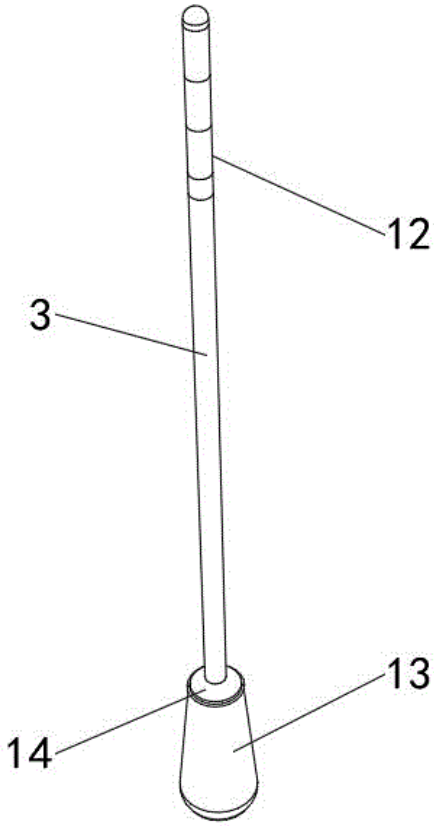
00: -
The present invention discloses a teaching desk for music education, comprising: a tabletop, a telescopic damping rod fixedly connected below the tabletop, a support base fixedly connected below the telescopic damping rod, and a fixed frame fixedly connected above the support base. A rotating handle is installed on one side of the fixed frame, while a vertical bevel gear is provided on the other side. A screw rod sleeve is fixedly connected above the support base, and a horizontal bevel gear is rotatably connected above the screw rod sleeve. A screw rod is threadedly engaged inside the horizontal bevel gear. In this invention, the introduction of a height-adjustable tabletop design allows the teaching desk to be personalized according to the student's height. This improvement effectively avoids discomfort caused by fixed tabletop height, reducing potential harm to the spine caused by prolonged poor sitting posture. Students can easily adjust the tabletop height based on their height and comfort level, thereby maintaining proper sitting posture and enhancing comfort and health during learning.



21: 2024/09639. 22: 2024/12/13. 43: 2025/06/30
51: G10G
71: Henan University of Urban Construction
72: Qiusi Mao, Peipei Liu, Rui Hou, Yang Zhang, Xi Li, Yixian Guo, Chenrui Zhu

54: A CONDUCTING BATON FOR GUIDING RHYTHM IN MUSIC TEACHING

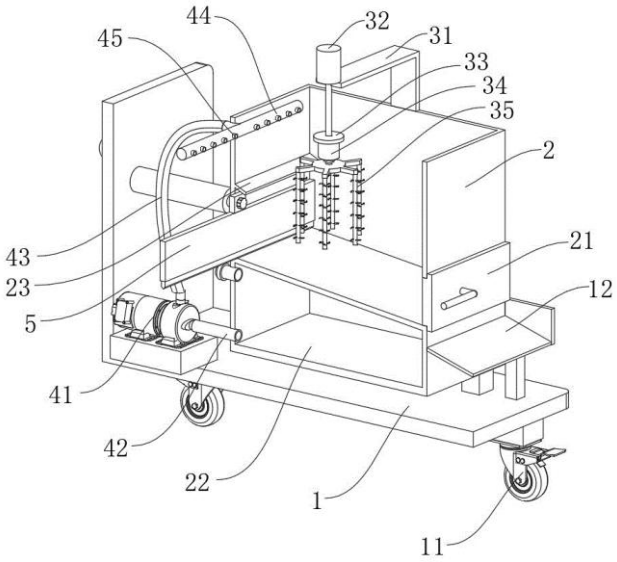
00: -
The present invention discloses a conducting baton for guiding rhythm in music teaching, comprising: a handle and a connecting cap, where one end of the top of the connecting cap is fixedly connected to a baton body. The interior of the handle is movably fitted with a power box, one end of which is fixedly connected to an LED light tube, and the other end is fixedly connected to a switch button. One side of the power box is provided with a charging port. One end of the top of the handle is provided with an internal threaded ring groove, and one end of the bottom of the connecting cap is fixedly connected to an external threaded ring block. The other end of the bottom of the connecting cap is rotatably connected to a rotating ring. The baton body has an internal slot and is equipped with an adjustment mechanism at the top. The conducting baton of the present invention consists of a handle, power box, baton body, LED light tube, connecting cap, and other components. It is easy to assemble and fixed through threaded connections. Damaged parts can be replaced. The rotating ring prevents the power box from shaking, and the switch button is intuitively designed for convenient light control. This enables students to more clearly and effectively grasp rhythm and melody.



21: 2024/09640. 22: 2024/12/13. 43: 2025/06/30
51: B62B
71: Henan University of Urban Construction
72: Kejian Shang, Xiaofang Yan, Zhijia Wang, Mengting Huang, Fei Bi, Jinping Zhang

54: A MORTAR TRANSPORTATION DEVICE FOR CONSTRUCTION ENGINEERING

00: -
The invention relates to the technical field of construction engineering and discloses a mortar transportation device for construction engineering, comprising a placement plate. A plurality of sets of universal wheels are installed at the bottom of the placement plate, and a transportation box is installed on the top of the placement plate. A closure cover is installed at the side opening of the transportation box, and a stirring component for mixing mortar is provided on the upper side of the transportation box. A water storage tank is arranged on the lower side of the transportation box. A spraying component for preventing mortar from clumping is provided on one side of the placement plate, and a scraping component for pushing mortar is arranged inside the transportation box. This mortar transportation device for construction engineering is designed with a scraping component so that when mortar remains inside the transportation box during discharge, the scraper can move inside the box to push the mortar toward the side opening, facilitating its flow out. This effectively reduces mortar waste and greatly enhances the practicality of the device.

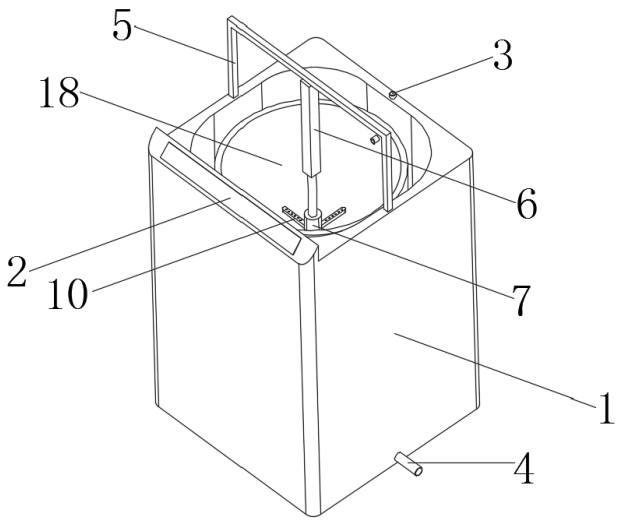


21: 2024/09646. 22: 2024/12/13. 43: 2025/06/30
51: D06B
71: HEYUAN POLYTECHNIC
72: HUANG, Xiuli, HU, Fang
33: CN 31: 202410184779.0 32: 2024-02-19

54: CLOTH DYEING EQUIPMENT

00: -
A cloth dyeing equipment is disclosed. The cloth dyeing equipment includes a shell, an inner cylinder, a fixing bracket, a driving device, an electric telescopic rod, a cloth clamping device and a controller, the inner cylinder is arranged in the shell, and the fixing bracket is arranged at a top end of the shell; the driving device is arranged in the shell and located at a bottom of the inner cylinder, an output shaft is rotationally connected to the driving device, the output shaft penetrates through a bottom wall of the inner cylinder and extends into the inner cylinder, and a plurality of stirring blades are arranged on the side wall of the output shaft; one end of the electric telescopic rod is connected to the fixing bracket, and another end of the electric telescopic rod extends into the inner cylinder; the cloth clamping device is rotationally connected to an end of the electric telescopic rod away from the fixing bracket; and the

controller is electrically connected to the electric telescopic rod and the driving device. In the present disclosure, the stirring blades are driven by the output shaft to stir indigo mud, a reducing agent and a dyeing assistant in water in the inner cylinder, and the cloth clamping device for clamping cloth is driven by the output shaft to rotate, so that the cloth is fully dyed, liquid does not need to be manually stirred in the cloth dyeing process, and the working intensity of workers is reduced.

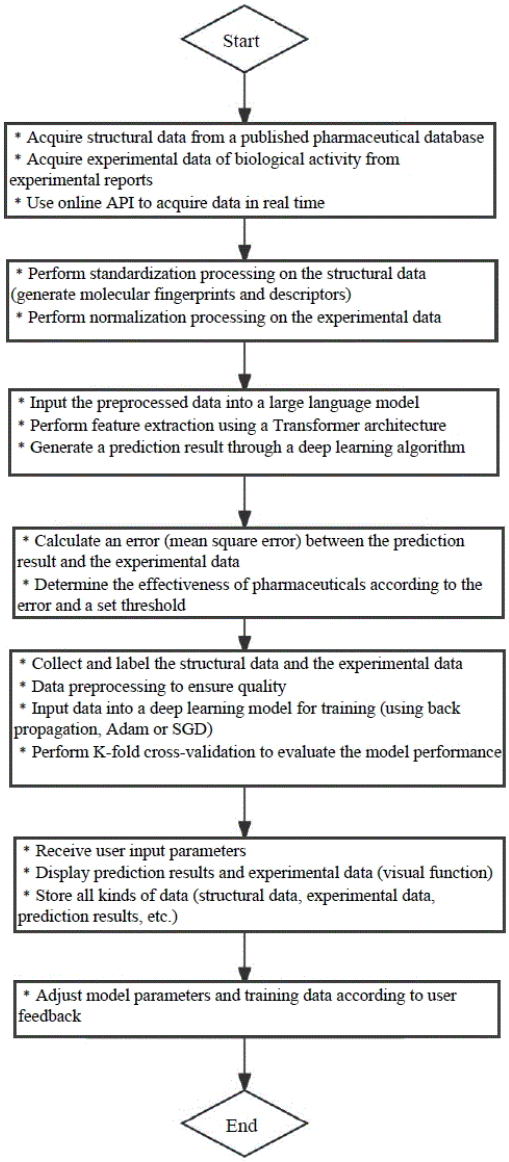


21: 2024/09647. 22: 2024/12/13. 43: 2025/06/26
51: G06F
71: Zunyi Normal University, ZNU
72: Wang Qian, Ouyang Aijia, Liu Yanmin, Huang Chuanteng, Yan Xiong

54: LARGE LANGUAGE MODEL-BASED VALIDATION SYSTEM FOR EFFECTIVENESS OF PHARMACEUTICAL MOLECULE

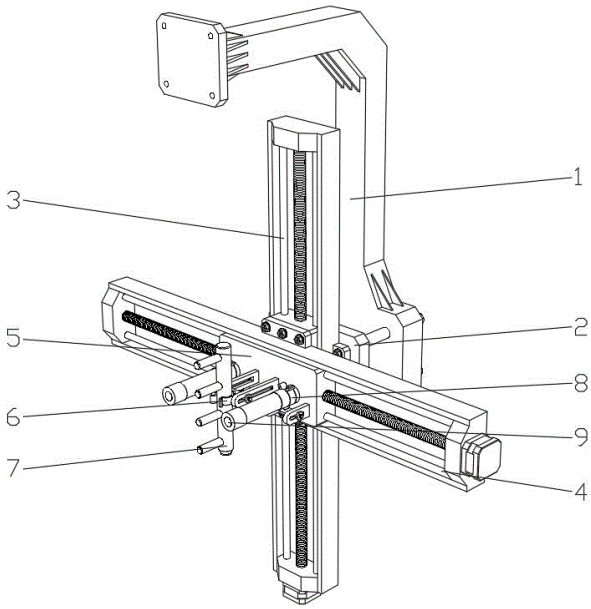
00: -

The present invention provides a large language model-based validation system for effectiveness of pharmaceutical molecules, falling within the technical field of medicinal chemistry and artificial intelligence. A data acquisition module, a data preprocessing module, a large language model and a result analysis module are included. Through a deep learning algorithm of the large language model and a feedforward propagation mechanism of neural network, a prediction result of biological activity of pharmaceutical molecules can be generated quickly. Compared with the existing computational chemistry method, the computational efficiency of the present invention is greatly improved, and the screening requirements of large-scale pharmaceutical molecules can be met. The validation system for the effectiveness of pharmaceutical molecules of the present invention can improve the accuracy of the model by using a large number of structural data of pharmaceutical molecules and experimental data of biological activity for training and adopting a cross-validation method to evaluate the performance of the model. Compared with existing experimental methods, the prediction results of the present invention are more accurate and can provide a more reliable basis for the validation of the effectiveness of pharmaceutical molecules.

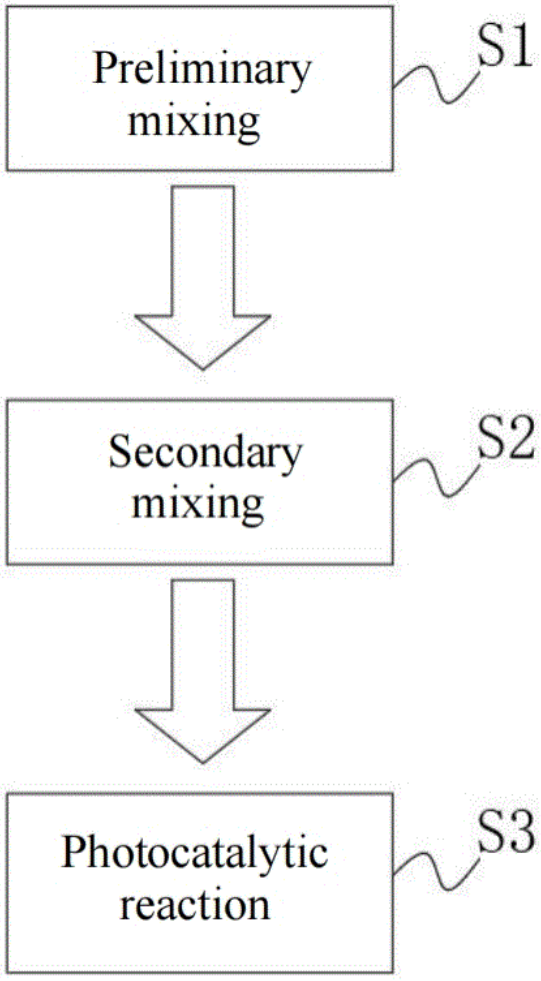


21: 2024/09648. 22: 2024/12/13. 43: 2025/06/26

51: G01N
71: Nantong Institute of Technology
72: Dai Li, Zhou Meirong, Chen Tianqi
54: DURABILITY MONITORING DEVICE AND DETECTION METHOD FOR REINFORCED CONCRETE STRUCTURES
00: -
The invention discloses a device and a method for monitoring the durability of a reinforced concrete structure. The adjusting buckle assembly I and the adjusting buckle assembly II can be fixed by adjusting the positions of the adjusting buckle assembly I and the adjusting buckle assembly II in the long adjusting limit plate and the short adjusting limit plate respectively and screwing the locking nut after adjustment, The longitudinal sliding table assembly and the transverse sliding table assembly can drive and monitor the positions of the four-electrode detection probe and the copper sulfate electrode bars on a plane within a certain range to carry out coverage detection, and the telescopic hydraulic cylinder drives the hydraulic telescopic rod to stretch, so that the whole detection probe can be pushed by the sliding mounting seat assembly to adjust the distances between the four-electrode detection probe and the two groups of copper sulfate electrode bars and the detection surface, Such a detection method can be more efficient and comprehensive to detect some areas, and it is more convenient to use.



21: 2024/09649. 22: 2024/12/13. 43: 2025/06/26
51: C07D
71: Zhejiang Normal University
72: Lv Xin, Li Cuiying, Kang Honglan
54: A PREPARATION METHOD FOR A PHOTOCATALYTIC ORGANIC SYNTHESIS ACCELERATOR
00: -
Disclosed is a preparation method for a photocatalytic organic synthesis accelerator in the present invention, including the following steps: S1, preliminary mixing: selecting raw materials of selenium trioxide, glutamic acid, 2-mercaptobenzothiazole sodium M-Na salt solution, taking the selected raw materials into mixing equipment, and starting the mixing equipment for agitation to form a mixed aqueous solution; S2, secondary mixing: adding carbon disulfide to the mixed aqueous solution in step S1, and stirring for reaction to obtain a mixed liquid; and S3, photocatalytic reaction: pouring the mixed liquid into a photocatalytic reactor, adding a photocatalyst for mixing reaction, and performing irradiation with a xenon lamp to obtain a vulcanization accelerator under stirring reaction conditions. The present invention relates to the technical field of accelerator production. The method for the photocatalytic organic synthesis accelerator is capable of avoiding using strong corrosive chemical reagents of nitric acid and sulfuric acid and having mild preparation conditions, to achieve low energy consumption reduction, easy control of technological conditions and simple operation. And the prepared accelerator is environmentally friendly and non-toxic, convenient to storage, while it has high stability, conducive to popularization and use.

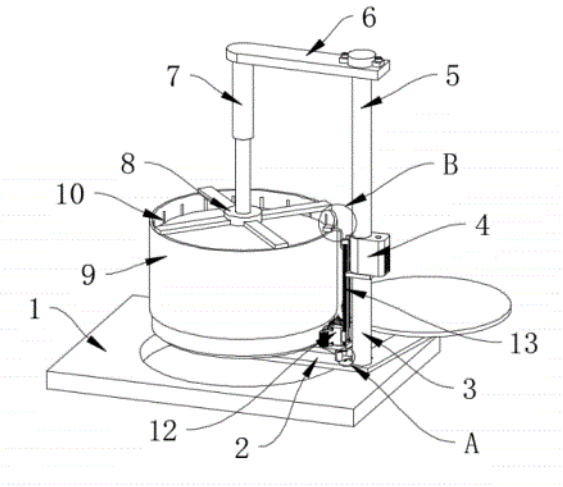


21: 2024/09650. 22: 2024/12/13. 43: 2025/06/30
51: G01N
71: CHINA HIGHWAY ENGINEERING CONSULTANTS CORPORATION
72: LIN, Yangyang, YAN, Hongxiang, ZHAO, Bin
33: CN 31: 202410873781.9 32: 2024-07-01

54: ROADBED COMPACTION DEGREE TESTING SAMPLING APPARATUS AND METHOD FOR HIGHWAY ENGINEERING

00: -

Disclosed is a roadbed compaction degree testing sampling apparatus for highway engineering, the apparatus comprising a base, wherein a circular through opening is formed in the base. In the roadbed compaction degree testing sampling apparatus and method for highway engineering, rotatable bearing assemblies are arranged, such that after a ring cutter is inserted into the soil for taking out a soil sample, one bearing assembly can hold the bottom of the sample, and using a cutting assembly capable of rotating around the axis of a hydraulic telescopic rod, the periphery of the soil sample is rotationally cut, so that after inserting the ring cutter, the part of the soil being compressed due to the contact with the ring cutter is cut and separated in the cutting assembly rotating process, ensuring that the remaining soil sample are taken out under regular conditions, for performing degree of compaction measurement.



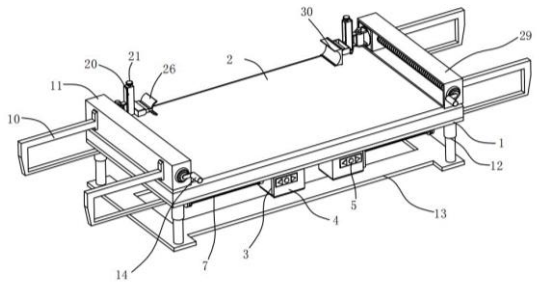
21: 2024/09655. 22: 2024/12/13. 43: 2025/07/18
51: A61G
71: Jiangsu Cancer Hospital
72: TAN, Jing
33: CN 31: 2023102205132 32: 2023-03-09

54: RESTRAINT FRAME FOR PATIENT UNDERGOING INTRASPINAL ANESTHESIA

00: -

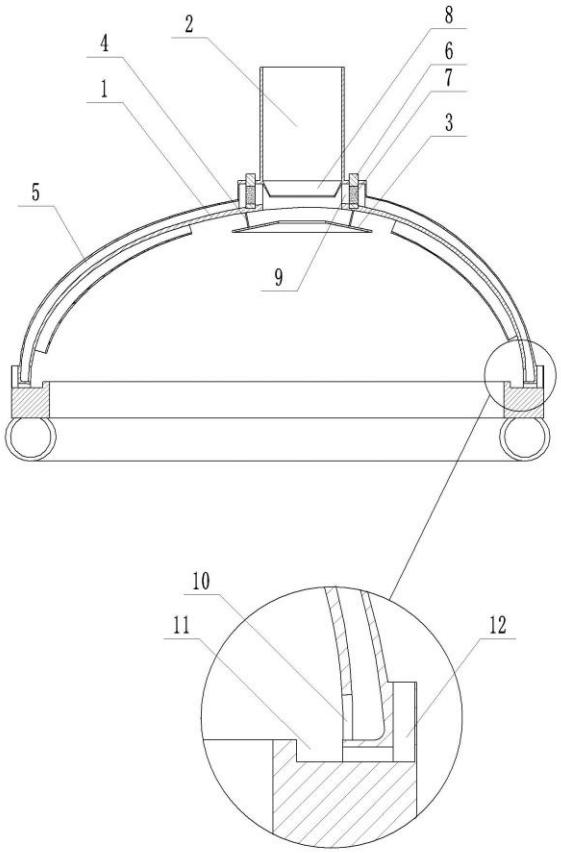
The present invention provides a restraint frame for an intraspinal anesthesia patient, including a bed plate and auxiliary restraint frames. The auxiliary restraint frames are respectively disposed on left and right sides of the bed plate, the auxiliary restraint frame includes a separating plate, the separating plates are fixedly connected to two sides of a bottom of the bed plate, and an outer side of the separating plate is connected to a corresponding first threaded rotary rod via an output end of a servo motor. Under the drive of the servo motors of the auxiliary restraint frames on two sides of the bed plate, the restraint frame for an intraspinal anesthesia patient provided by the present invention can be suitable for patients with different heights. First empty chamber boxes are controlled to approach, and intrathecal anesthesia is performed

on the patient. During the intrathecal anesthesia, the positions of a cervical restraint collar and a bi-leg sleeve are controlled using a second threaded rotary rod to respectively correspond to the cervical vertebra and legs of the patient, which are then restrained by frames to relieve the hands of the doctor and to ensure that the waist of the patient bends backward as much as possible. The restraint frame in the present invention has high overall adjustability and is easy to operate, greatly improving the success rate of intrathecal anesthesia.



21: 2024/09656. 22: 2024/12/13. 43: 2025/06/30
51: A62B
71: Jiangsu Cancer Hospital
72: SONG, Zhenghuan
33: CN 31: 2023114054580 32: 2023-10-26
54: ANESTHESIA MASK
00: -

The present invention discloses an anesthesia mask and relates to the field of medical masks. The technical solution of the present invention includes a mask body, where a middle portion of the mask body is provided with an air hole, and the air hole is externally connected to an air cylinder; a side wall of the air cylinder is provided with a reflux hole, multiple overflow holes are distributed in a lower portion of the mask body, an inner wall of the mask below the overflow holes is provided with a circular water collection trough, and an outer orifice of the overflow hole is provided with a reflux tube in communication with the reflux hole; and a moisture absorbing member is sleeved detachably between the reflux hole and the reflux tube. This solution allows for gas circulation and dehumidification in the mask body, and thus the flowing gas can move along the inner wall of the mask body, accelerating the air flow on the surface of the inner wall of the mask body, reducing the possibility of water droplet formation, and preventing condensed water droplets from falling on a patient's face.



21: 2024/09657. 22: 2024/12/13. 43: 2025/06/30
51: C07D
71: KUMIAI CHEMICAL INDUSTRY CO., LTD
72: Tani Shinki
33: JP 31: 2022-099282 32: 2022-06-21
54: METHOD FOR PRODUCING SULFONE DERIVATIVE USING HALOACETIC ACID
00: -

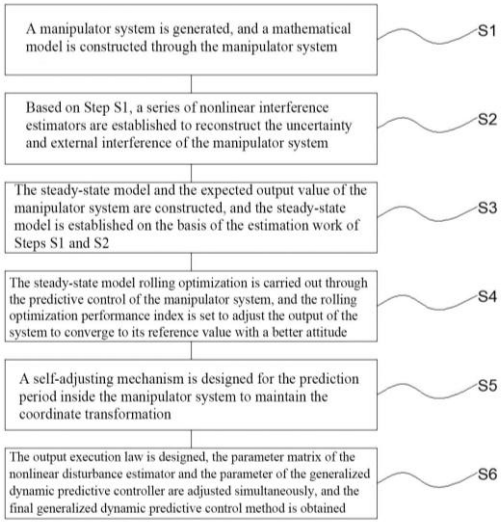
The present invention provides an industrially preferable method for producing a sulfone derivative that is useful as a herbicide, and an intermediate thereof.

21: 2024/09677. 22: 2024/12/13. 43: 2025/07/11
51: B25J
71: Shanghai Polytechnic University
72: Hao Hao, Huanyu Liu, Yanghua He, Wenjie Wang
33: CN 31: 202310768075.3 32: 2023-06-28
54: A GENERALIZED DYNAMIC PREDICTIVE CONTROL METHOD FOR REALIZING THE

TRAJECTORY TRACKING OF MANIPULATOR SYSTEMS

00: -

The invention discloses a generalized dynamic predictive control method for realizing the trajectory tracking of manipulator systems, which relates to the technical field of predictive control of a manipulatoric system, including generating a manipulatoric system and constructing a mathematical model through the manipulatoric system. The invention makes the trajectory tracking control of the controlled manipulator system realize higher tracking control precision through setting and non-static error predictive control; The adaptive transient performance optimization ability of the invention can also be well guaranteed through the predictive control time-domain online updating mechanism; Through the design framework based on generalized predictive control and the simple and clear guiding mechanism for the selection of control parameters, the invention collects the velocity and position quantity of each joint of the manipulator system by measuring the position and speed sensor with good performance, so that the closed-loop manipulator system can be adapted to various industrial scenes and has better trajectory adjustment performance. Improve the overall level of intelligent management.



21: 2024/09678. 22: 2024/12/13. 43: 2025/06/30
51: G09F
71: ETIVOET BV
72: VOET, Philippe
33: BE 31: 2022/5498 32: 2022-06-23

54: LABEL FOR PACKAGING

00: -

The current invention relates to a label comprising a front (4) and a rear side (6) wherein said front side (4) is provided with information and a rear side is provided with an adhesive layer (3) for bonding said label on an article (1), such as packaging, and wherein a spacing agent (2) is arranged above said adhesive layer, such that a discontinuous pattern is formed over said adhesive layer, thereby shielding portions of said adhesive layer by said spacing agents, whereas other portions are not shielded, characterized in that, said spacing agent has a thickness of between 0.5 and 200 microns.

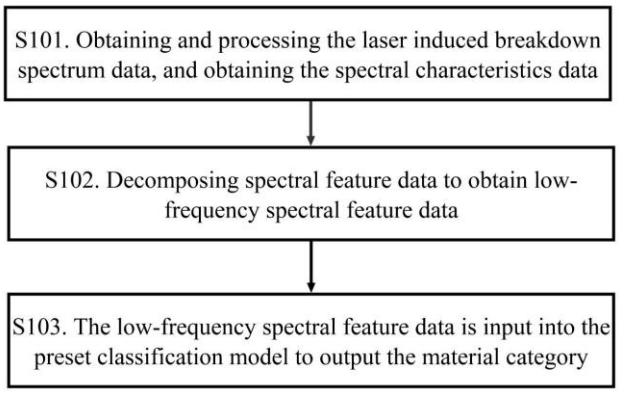
21: 2024/09686. 22: 2024/12/17. 43: 2025/06/30
51: G01N
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: WANG, Yarui, LI, Kuohu, WANG, Chaoyong, WANG, Xinlian, LIU, Zhiqing, CHEN, Shanbao, LIU, Le, ZHAO, Jun, CHEN, Jiaye, GUO, Junji

54: A MATERIAL DETECTION METHOD BASED ON SINGLE STANDARD SAMPLE CORRECTION - LASER INDUCED BREAKDOWN SPECTROSCOPY

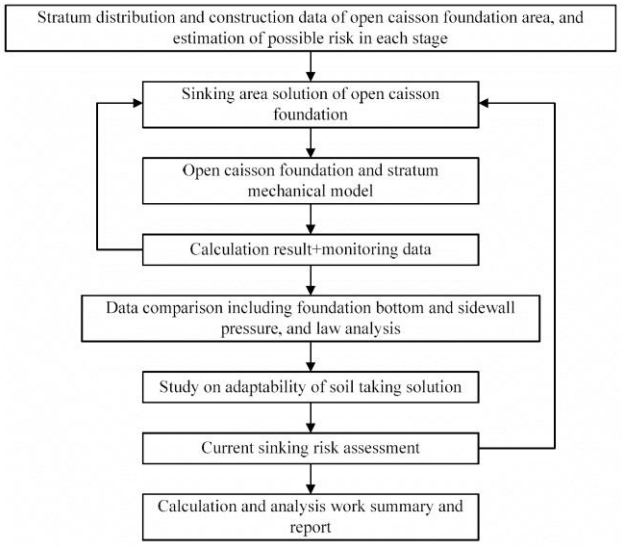
00: -

The invention relates to the technical field of material testing, in particular to a material testing method based on a single standard sample correction - laser induced breakdown spectroscopy technique, including: the laser induced breakdown spectrum data is obtained and processed, and the spectral characteristics are obtained; decomposing the spectral feature data to obtain the low-frequency spectral feature data; the low-frequency spectral feature data is input into a preset classification model to output the material category, wherein the classification model is used to detect the material category by feature extraction and recognition of the low-frequency spectral feature data. By combining multistage signal processing and deep learning, the invention effectively solves the problem of signal imbalance, noise interference and feature extraction in laser induced breakdown spectral analysis, improves the accuracy and reliability of material identification, and provides a new solution for the

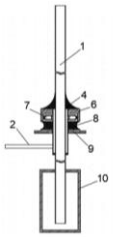
industrial application of laser spectral analysis technology.



21: 2024/09687. 22: 2024/12/17. 43: 2025/06/30
51: G06F
71: CHINA CONSTRUCTION THIRD ENGINEERING BUREAU GROUP CO. LTD.
72: Jun Yuan, Ailian Liu, Chenglin He, Weihong li, Zhen Xu, Kai Liu, Xianwei Liang, Shaojie Ma, Manhe Zhang, Yaowei Wang
33: CN 31: 202410708129.1 32: 2024-06-03
54: DIGITAL MONITORING METHOD FOR OPEN CAISSON CONSTRUCTION
00: -
The present invention provides a digital monitoring method for open caisson construction, which relates to the technical field of geotechnical engineering. The method includes the following steps: arranging monitoring components on an open caisson structure, and acquiring monitoring data in a construction process of an open caisson to a base station in a field construction monitoring room in real time on the basis of a sensor technology and a data acquisition technology; applying a cloud computing technology to a local area network of an operation room on a construction site, and uploading the monitoring data of open caisson construction to a cloud server in a background of a company; and constructing an open caisson construction system. According to the present invention, the various data in the construction process of the open caisson are monitored and theoretically analyzed, and the data include data of various monitoring components and the mud surface data measured through the soil taking apparatus. A current construction state of the open caisson is predicted timely on the basis of cloud computing and a deep learning algorithm, so as to effectively find unstable factors. Construction adjustment of the soil taking apparatus is controlled in combination with the monitoring data, such that construction is effectively guided, accuracy is high, and the structure of the open caisson is fully considered.



21: 2024/09689. 22: 2024/12/17. 43: 2025/06/30
51: A61M
71: THE FIRST AFFILIATED HOSPITAL OF CHONGQING MEDICAL UNIVERSITY
72: LUO, Yan, LI, Zhaolan, WANG, Tingting
33: CN 31: 202410484083.X 32: 2024-04-22
54: ANTI-FALLING CLOSED CHEST DRAIN
00: -
Disclosed is an anti-falling closed chest drain, including a drainage tube, an airway, a moving fastener and an annular airbag, wherein a sleeve is fixedly arranged on the peripheral surface of the drainage tube, the moving fastener is arranged on the sleeve, the annular airbag is arranged in a mounting groove inside the moving fastener, the annular airbag is in communication with the sleeve, and the airway is arranged on the sleeve; a guide rubber cover is arranged on the upper end face of the moving fastener, and an annular rubber cover is arranged at the lower end of the moving fastener; and the lowermost end of the drainage tube is inserted into a collecting bottle. The anti-falling closed chest drain has ingenious design, useful functions and a simple structure, and effectively solves the problem that the existing drainage devices are difficult to be fixed and often fall.

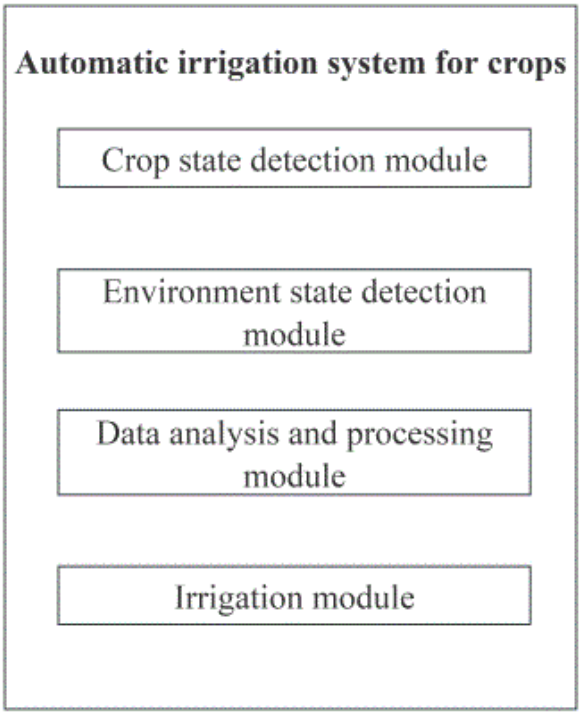


21: 2024/09690. 22: 2024/12/17. 43: 2025/06/30
51: A01G
71: Gansu Agricultural University
72: Fuxue FENG, Yutong LIU, Zeyi WANG, Fuqiang LI, Yayu WANG, Caixia HUANG

54: AN AUTOMATIC IRRIGATION SYSTEM FOR CROPS BASED ON ENVIRONMENTAL SENSORS

00: -

An automatic crop irrigation system based on an environmental sensor is disclosed, which belongs to the technical field of irrigation systems, including: a crop state detection module, the crop state detection module is used for collecting an RGB image of a crop to obtain a color distribution feature map and a texture feature image map of the crop, so as to obtain a growth state distribution map of the crop; an environment state detection module, the environment state detection module is used for collecting environment information at different areas; a data analysis and processing module, the data analysis and processing module is used for analyzing and processing the collected growth state distribution map and environmental information to obtain a control signal for irrigation; and an irrigation module, the irrigation module is used for receiving a control signal sent by the data analysis and processing module and executing a corresponding operation mode. The present invention adopts the above-mentioned automatic irrigation system for crops based on environmental sensors, which can efficiently and intelligently judge whether crop irrigation is required with full consideration of the growth of the crop and in combination with the actual environmental factors.



21: 2024/09691. 22: 2024/12/17. 43: 2025/07/11
51: A61K
71: Wenzhou Traditional Chinese and Western Medicine Hospital
72: Wang Xiaofeng, Zhang Hong, Wang Yiting, Sun Yongqi, Pan Jiaoyi, Dai Zhonghao
33: CN 31: 2024109616224 32: 2024-07-18

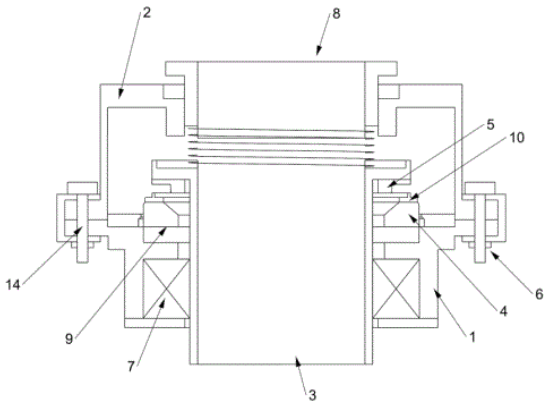
54: OINTMENT FOR TREATING ARTHRITIS AND PREPARATION METHOD THEREFOR

00: -

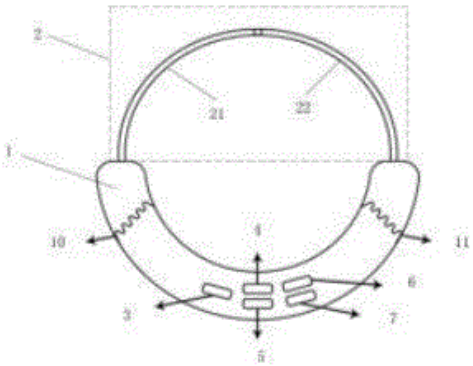
The present invention provides an ointment for treating arthritis and a preparation method thereof. The ointment includes a base cloth layer, an ointment layer is compounded on a surface of a side of the base cloth layer, a gel layer is compounded on a surface of the ointment layer, pharmaceutical release holes are distributed on the gel layer, and a release layer is compounded on a surface of the gel layer. The ointment layer is prepared from Semen Persicae, Fructus Cnidii, Caulis Lonicerae, Radix Notoginseng, Radix Saposhnikoviae, Flos Carthami, Semen Sinapis Albae, Rhizoma Homalomenae, Caulis Sinomenii, Radix Cyathulae, Caulis Piperis Kadsurae, Radix Clematidis, Cortex Eucommiae, Herba Epimedii, Radix Aconiti Lateralis Preparata, Radix Paeoniae Rubra, Radix Tripterygii Wilfordii and Oleum sesami; and the gel layer is prepared from gel material, Herba Menthae extract powder,

Rhizoma Zingiberis Recens extract powder, Borneolum Syntheticum and Moschus. Through the compatibility and combination of Chinese herbal medicines, the medicinal effect can be effectively exerted, and the ointment has short treatment course and quick effect and can radically cure various arthritis.

21: 2024/09692. 22: 2024/12/17. 43: 2025/07/11
51: H02N
71: NORTH CHINA INSTITUTE OF AEROSPACE ENGINEERING
72: Cai Yi, Su Guobing, Li Jiayi
33: CN 31: 2024116139569 32: 2024-11-13
54: HOLLOW ULTRASONIC MOTOR WITH ADJUSTABLE PRE-PRESSURE
00: -
The invention provides a hollow ultrasonic motor with adjustable pre-pressure, which comprises a base, an upper seat, a hollow shaft, a stator and a rotor, wherein the base is connected with the upper seat through a connector, the hollow shaft is connected with the base through a bearing seat, the upper seat is threadedly connected with a pressing mechanism abutting against the hollow shaft, the stator is installed on the base, a piezoelectric ceramic sheet is bonded to the lower surface of the stator, a friction plate is bonded to the lower surface of the rotor, the rotor is connected with the hollow shaft through a spline mechanism, the pre-pressure between the stator and the rotor can be conveniently adjusted through a pressing mechanism, and the upper seat and the base can be conveniently connected together through the connector, so that the stability is improved.

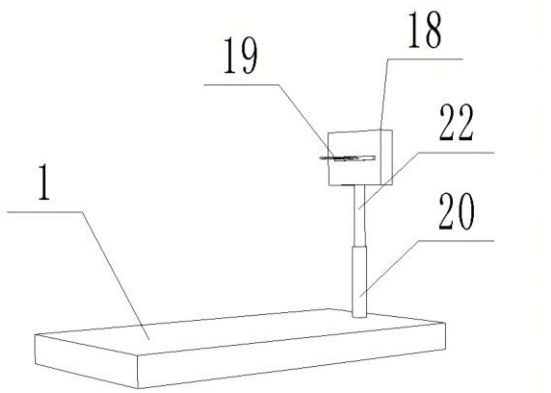


21: 2024/09693. 22: 2024/12/17. 43: 2025/06/30
51: A61F
71: Shandong Weiheng Data Technology Co., Ltd., Yantai Yuhuangding Hospital (Yantai Yuhuangding Hospital Affiliated to Qingdao University), Shandong Weiheng Medical Technology Co., Ltd.
72: SONG, Xicheng, LIU, Xinghui, MU, Yakui, LI, Zhili, WANG, Yuting, ZHANG, Yaogang, WANG, Gao, REN, Chao, ZHANG, Yu, ZHOU, Xuefei, LI, Yuan, SUN, Ming
54: LOWER JAW SUPPORT, AND METHOD AND SYSTEM FOR CONTROLLING LOWER JAW SUPPORT
00: -
Disclosed are a lower jaw support, and a method and system for controlling a lower jaw support, which relate to the field of lower jaw support control. The lower jaw support includes: a U-shaped front neck part and an annular part including a first annular unit and a second annular unit. One end of the first annular unit is connected with one end of the front neck part, one end of the second annular unit is connected with the other end of the front neck part, and the other end of the first annular unit is connected with the other end of the second annular unit via a buckle. A data acquisition module, an abnormal respiration detection module, an alarm wake-up module, and a personalization module are arranged in the front neck part, and a dynamic adjustment module is arranged on both sides of the front neck part



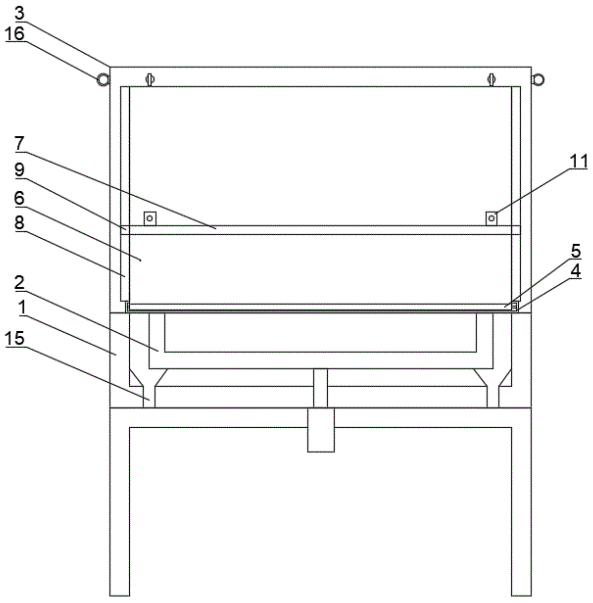
21: 2024/09694. 22: 2024/12/17. 43: 2025/07/11
51: A63B
71: JILIN UNIVERSITY OF ARTS
72: JI Xiang
54: A STOP JUMP SHOT TRAINING DEVICE FOR BASKETBALL TEACHING
00: -

The invention provides a stop jump shot training device for basketball teaching, belonging to the technical field of basketball teaching, which includes pedals, where the pedals are divided into a front pedal, a middle pedal and a rear pedal; the front pedal, the middle pedal and the rear pedal are hollow; the front pedal is provided with a basketball stand; the front pedal and the rear pedal are internally provided with a first buffer system; the middle pedal is internally provided with a second buffer system; the first buffer system includes a plurality of shock absorbers and a plurality of first buffer components; and the second buffer system includes a plurality of shock absorbers and a plurality of second buffers. The invention can protect the feet of trainers to a certain extent, and prevent injuries and sprains.



21: 2024/09696. 22: 2024/12/17. 43: 2025/07/14
51: G09B
71: Henan University of Urban Construction
72: LIU Yuan, TIAN Yangyang, HU Tao, JIN Bowen
54: SAND TABLE FOR INNOVATIVE DESIGN
00: -

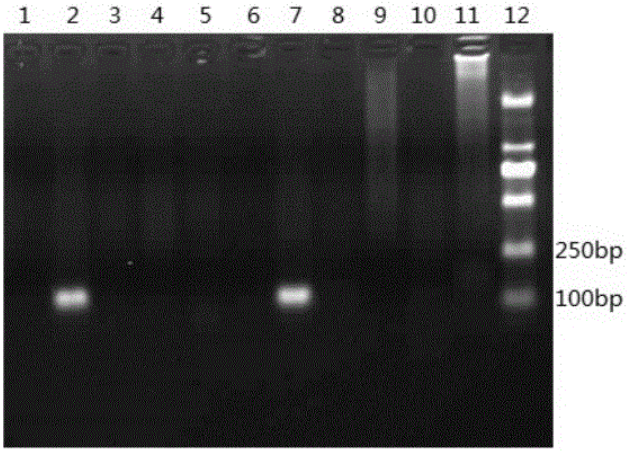
The invention relates to the technical field of building models, and discloses a sand table for innovative design, which includes a supporting table, wherein a sand table groove is rotatably connected in the supporting table; the protective assembly include a support frame and a plurality of protective pieces, wherein the support frame is fixedly connected to the top end of the supporting table, and four sides of the support frame are provided with openings, and a plurality of protective pieces are respectively arranged on the four sides of the support frame and are configured to seal the openings when the protective pieces ascend; the limit assembly includes a plurality of limit pieces which are respectively arranged at the top ends of the four sides of the support frame and are configured to be connected with the limit pieces in a limiting way when the protective piece rises to the top end; the collecting assembly are arranged in the supporting table and used for collecting sundries. The application has the advantages of simple structure and convenient operation, which can realize the stable protection of the sand table model in the process of display, meanwhile, it is convenient to disassemble the protective structure in the later stage, facilitate the daily maintenance of the sand table model, and ensure the stable display of the sand table model.



21: 2024/09697. 22: 2024/12/17. 43: 2025/07/14
51: C12Q
71: Jiangsu Institute of Poultry Sciences
72: FAN Yanfeng, TANG Xiujun, LU Junxian, JIA Xiaoxu, GE Qinglian, ZHANG Xiaoyan, ZHOU Qian, CHEN Dawei, ZHANG Wentao
54: PRIMER FOR IDENTIFYING PIGEON-DERIVED COMPONENTS IN LIVESTOCK AND POULTRY MEAT AND APPLICATION THEREOF
00: -

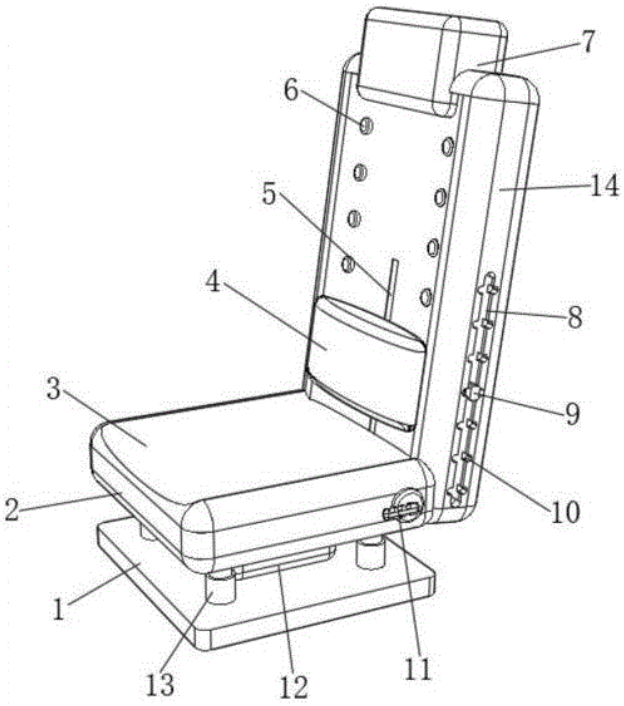
The invention discloses a primer for identifying pigeon-derived components in livestock and poultry meat and an application thereof, belonging to the technical field of identification of animal-derived components. The primer is a primer F with a nucleotide sequence as shown in SEQ ID NO: 2 and

a primer R with a nucleotide sequence as shown in SEQ ID NO: 3. The primer provided by the invention can be applied to qPCR and QCPR methods at the same time, not only has good specificity, but also has high sensitivity, provides a new way for identifying animal-derived components in food, and has the beneficial effects of convenient operation, stable and accurate results, low cost and the like.



21: 2024/09698. 22: 2024/12/17. 43: 2025/07/14
51: A47C
71: Jiaxing Vocational & Technical College
72: CHEN Yuyi
54: ADJUSTABLE SEAT CONVENIENT FOR ADJUSTING BACKREST HEIGHT
00: -

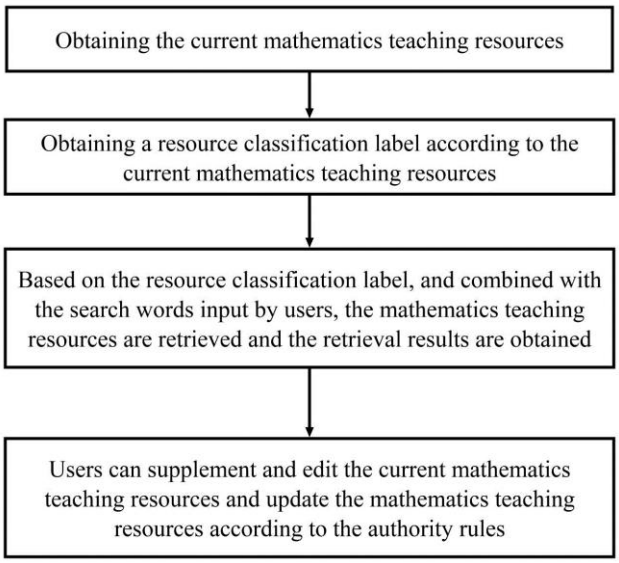
The invention provides an adjustable seat convenient for adjusting backrest height, relates to the technical field of automobile seats. The adjustable seat convenient for adjusting backrest height includes a backrest, a slot is arranged in middle lower part of one side of the backrest, a connecting rod is connected in the slot in a sliding way, and an mounting rod is connected in middle lower part of inner side of the backrest in a sliding way, one side of the connecting rod is fixedly connected to middle part of one side of lumbar pillow block, other side of the connecting rod is fixedly connected to middle part of one side of the mounting rod, middle and lower part of one side of the backrest is provided with a moving groove, and both sides of the moving groove are provided with a plurality of clamping grooves at equal intervals. Through multiple buffering measures, the impact force received in the driving process of new energy is buffered, and the impact force is buffered and degraded not only by the soft leather pad of the car, but also by improving the buffering capacity of the new energy vehicle seat for the bumping impact force and the comfort of the driver when driving the new energy vehicle.



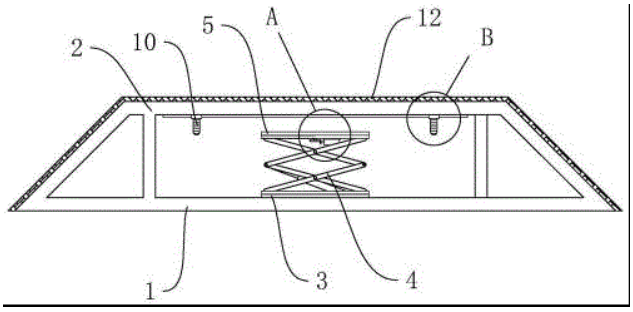
21: 2024/09699. 22: 2024/12/17. 43: 2025/07/14
51: H04L
71: TANGSHAN UNIVERSITY
72: LI Nana, LIU Hui, DONG Baozhu
54: METHOD AND SYSTEM FOR SHARING MATHEMATICS TEACHING RESOURCES BASED ON CLOUD COMPUTING
00: -

The invention discloses a method and a system for sharing mathematics teaching resources based on cloud computing. The sharing method includes the following steps: obtaining current mathematics teaching resources; obtaining a resource classification label according to the current mathematics teaching resources; based on the resource classification label and combined with the search words input by users, the teaching resources are searched to obtain search results; when the retrieval result does not meet the user's requirements, the user can supplement and edit the current mathematics teaching resources and update the mathematics teaching resources according to the authority rules. The invention improves the

management and retrieval efficiency of teaching resources through semantic processing and intelligent algorithm, the collaborative editing function promotes the continuous optimization of resources, the authority management ensures the safety and controllability of resources, and provides an intelligent resource support method for mathematics teaching.

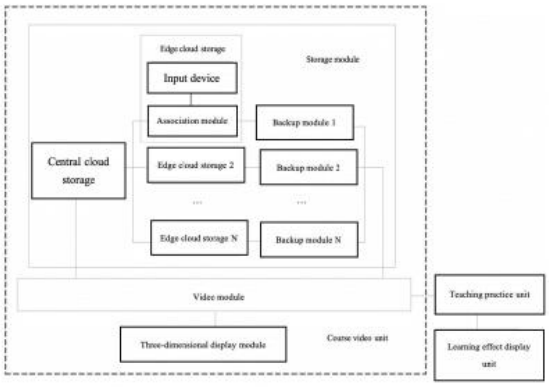


21: 2024/09700. 22: 2024/12/17. 43: 2025/07/14
51: B66F
71: Jiaxing Vocational & Technical College
72: CHEN Yuyi
54: BRIDGE TYPE MULTIFUNCTIONAL AUTOMOBILE MAINTENANCE PLATFORM
00: -
The invention discloses a bridge type multifunctional automobile maintenance platform, includes a bottom plate, a folding lifting platform, an adjusting assembly and a moving assembly, where ramps is fixed on both sides of the bottom plate, the moving assembly is positioned between the ramps on both sides, and the moving assembly includes a driving motor, a lead screw and a moving seat, and the lead screw is rotatably connected with the bottom plate, and the lead screw is horizontally arranged along length direction of the ramps, the driving motor is fixed on the bottom plate, the moving seat is horizontally connected with the bottom plate in a sliding way; the moving seat is connected with the lead screw in a threaded way; the folding lifting platform is fixed on the moving seat through the adjusting assembly; and top of the folding lifting platform is rotatably connected with a rotating plate, and a rotation control assembly is arranged between the rotating plate and the folding lifting platform; the adjusting assembly is used for driving the folding lifting platform to move along width between the ramps on both sides. The invention can quickly move the parts to the installation place at the bottom of the automobile for installation, thus saving the maintenance energy of maintenance personnel and improving the maintenance efficiency.



21: 2024/09701. 22: 2024/12/17. 43: 2025/06/30
51: G06Q
71: Hebei Jiaotong Vocational and Technical College, Hebei Vocational College Of Labour Relations
72: Wang Aibing, Liu Yapeng, Du Rong, Zhang Huaxin, Zhang Meng, Zhang Yuquan
33: CN 31: 2024116793914 32: 2024-11-22
54: A VISUALIZED INTELLIGENT TEACHING SYSTEM FOR VOCATIONAL EDUCATION IN NEW ENERGY VEHICLES
00: -
This invention discloses a visualized intelligent teaching system for vocational education in new energy vehicles, relating to the field of new energy education technology. The method includes: a course video unit, a teaching practice unit, and a learning outcome display unit. The course video unit is used to load video materials for the target course and insert a three-dimensional display option at a designated location in the course video to help users understand the content of the video. The three-dimensional display option is linked to a 3D twin model display interface. The teaching practice unit is used to determine the current learning stage based on learning objectives and progress, plan the learning scheme accordingly, and record the completion of teaching assignments based on the learning scheme. The learning outcome display unit is used to tally the scores for each learning stage,

generate a learning status display table and corresponding pie chart analysis, and allow users to access and view the information via their account login. This invention can enhance the visualization of vocational education in new energy vehicles.

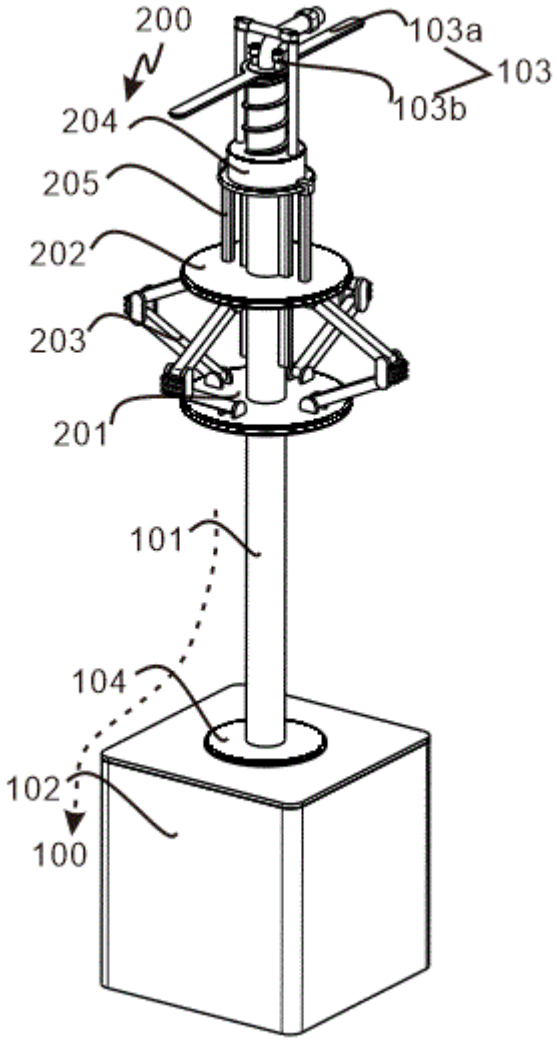


21: 2024/09702. 22: 2024/12/17. 43: 2025/07/14
51: F42D
71: Anhui Jiangnan Blasting Engineering Co., Ltd
72: GAO Pengfei, XIONG Yantao, WANG Ming, WANG Gang, ZHANG Xuesong, WU Jiankang, ZHANG Chao, AI Jiuying, WANG Rui, CHENG Bing, HUANG Xianwen

54: HOLE SEALING DEVICE FOR MINE BLASTING

00: -

The invention discloses a hole sealing device for mine blasting, which comprises a hole sealing assembly, comprising a main rod, an airbag and an installation piece, wherein the airbag is fixed at the bottom end of the main rod, an air passage is formed in the main rod, and the installation piece is fixed at the top end of the main rod; and an installation assembly, arranged on the main rod and comprises a fixed plate, a movable plate, a fastener, a threaded sleeve and a connector, wherein the fixed plate is fixed on the surface of the main rod, the movable plate slides on the main rod and is positioned above the fixed plate, and the fastener is arranged between the fixed plate and the movable plate, and the threaded sleeve is threadedly connected to the surface of the main rod, and a connector is arranged on the threaded sleeve. According to the invention, through the arrangement of the installation assembly, the device can more conveniently seal blasting holes with different diameters and depths, and has the effects of convenient operation and recycling.



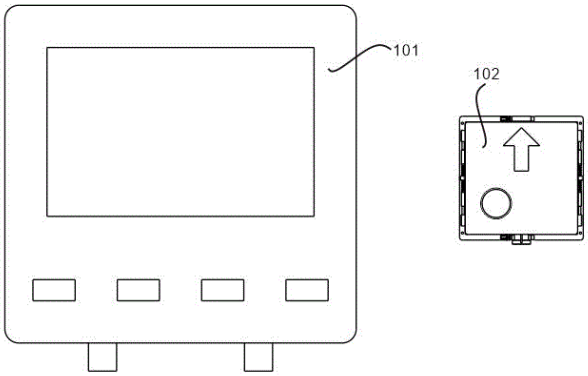
21: 2024/09703. 22: 2024/12/17. 43: 2025/07/14
51: G06F
71: Anhui Jiangnan Blasting Engineering Co., Ltd
72: XIONG Yantao, GAO Pengfei, WANG Ming, WANG Gang, ZHANG Chao, AI Jiuying, ZHANG Xuesong, WU Jiankang, WANG Rui, CHENG Bing, HUANG Xianwen

54: MINE BLASTING VIBRATION MONITOR

00: -

The invention disclose a mine blasting vibration monitor, which comprise a monitor component, a monitor body, a sensor, a joint and a dust cover, wherein that joint is fixed at one side of the sensor, and the dust cover is sleeve on the joint; and a mounting component arranged on the surface of the

sensor and comprising a mounting block, a collar, a mounting piece, a roller and a limiting piece, wherein the mounting block is fixed on both sides of the sensor; the collar is sleeved on the sensor; the mounting piece is arranged on both sides of the top of the collar and cooperates with the mounting block; the roller is arranged on both sides of the collar; and the limiting piece is arranged on the top of the collar and cooperates with the roller. According to the invention, through the arrangement of the mounting component, substances capable of isolating glue, such as a film, can be arranged at the bottom of the sensor, and the mounting stability between the film and the sensor is improved, so that the convenience of subsequent cleaning of the sensor is greatly improved on the premise of not affecting the mounting stability.

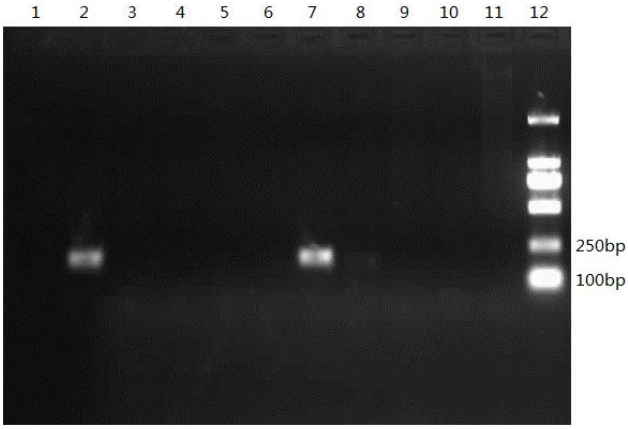


21: 2024/09705. 22: 2024/12/17. 43: 2025/06/30
51: C12Q
71: JIANGSU INSTITUTE OF POULTRY SCIENCES
72: ZHANG, Jingxin, FAN, Yanfeng, TANG, Mengjun, ZHANG, Jing, MA, Lina, LIU, Yinyin, ZHOU, Qian, HUANG, Shenghai

54: PRIMER SET AND DETECTION METHOD FOR DETECTING PIGEON-DERIVED COMPONENTS ACCORDING TO CO 1 GENE

00: -

A primer set and a detection method for detecting pigeon-derived components according to a CO 1 gene. According to the CO 1 gene in pigeon mitochondrial DNA, the invention designs a primer set for detecting pigeon-derived components, which includes an upstream primer CO 1-F with a nucleotide sequence as shown in SEQ ID NO.1 and a downstream primer co 1-R as shown in SEQ ID NO.2; according to the above primer set, a common PCR detection method and a fluorescence quantitative PCR detection method are designed. The result of detecting the deep-processed pigeon meat shows that the primer provided by the invention can be applied to both PCR and fluorescence quantitative PCR detection methods, and is not limited by the sample state, and has good specificity and high sensitivity. The invention provides a new way for the identification and exploration of animal-derived ingredients in food.



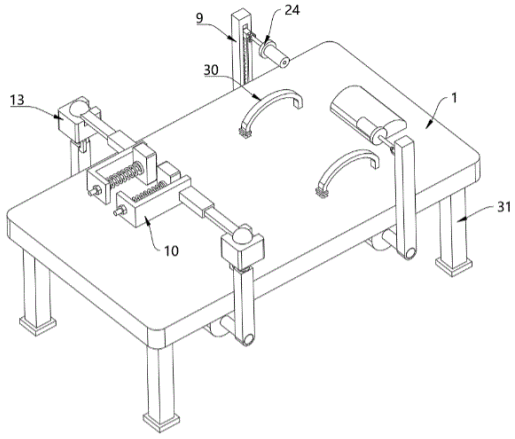
21: 2024/09706. 22: 2024/12/17. 43: 2025/06/30
51: A61G
71: Qingdao Central Hospital
72: Bo JIAO, Jun ZHANG
33: CN 31: 2024114589532 32: 2024-10-18

54: REHABILITATION NURSING DEVICE FOR VASCULAR MEDICINE

00: -

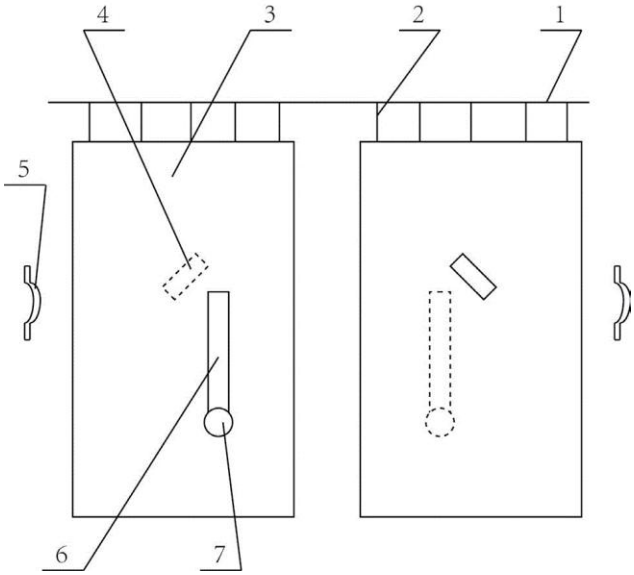
The present invention discloses a rehabilitation nursing device for vascular internal medicine in the field of vascular care technology, comprising a bed body, wherein two storage mechanisms are provided on the bottom surface of the bed body, and support rods are fixedly connected to the storage mechanisms. A leg training mechanism is provided on one of the storage mechanisms, and the leg training mechanism is rotatably connected to the support rods; an arm training mechanism is provided on the other storage mechanism, and the arm training mechanism is slidably connected to the support rods. Two fixing mechanisms are provided on the bed body, and four supporting legs are provided on the bottom surface of the bed body, so that the equipment is more convenient and has a better effect during training, while reducing the

space occupied by the equipment, further improving the practicability and ease of use of the equipment.



21: 2024/09707. 22: 2024/12/17. 43: 2025/07/14
51: B29C
71: Jiaxing Vocational & Technical College
72: YANG Xuemei
54: CURTAIN OVERLAP MECHANISM
00: -

The invention belongs to the technical field of curtain overlap, in particular to a curtain overlap mechanism, which comprises a left curtain cloth and a right curtain cloth respectively hung on a curtain frame through hanging rings. A hanging cloth strip is respectively arranged on the front face of the left curtain cloth and the back face of the right curtain cloth, the upper end of the hanging cloth strip is connected with the curtain cloth where the hanging cloth strip is located, and the lower end is provided with a suspended counterweight ball; a fixed cloth strip is respectively arranged on the back of the left curtain cloth and the front of the right curtain cloth; the curtain frame is connected with two threaded blocks in a sliding way, the threaded blocks are fixed with the hanging ring at the edge, the two threaded blocks are located between two curtain cloths, the two threaded blocks are symmetrically threaded on a bidirectional screw, and the two ends of the bidirectional screw are respectively rotatably arranged on the left and right side walls of the window frame; one end of the bidirectional screw shaft is connected with a first bevel gear, the first bevel gear is meshed with a second bevel gear, the second bevel gear shaft is connected with the output shaft of a motor, and the fixed end of the motor is fixedly connected with the wall at one side of the window frame.

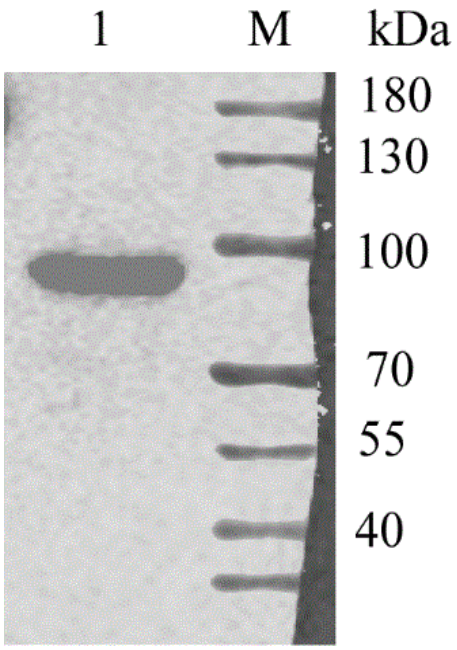


21: 2024/09708. 22: 2024/12/17. 43: 2025/06/30
51: B01D; B01J
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: GUO, Xiang, XIE, Nana, GU, Xiaogang, WANG, Gongmao, SHI, Xinyu, SU, Qiya, ZHAO, Weichen, LING, Huifang, YUAN, Yunchang, WU, Junfeng
54: MOLECULAR SIEVE COMPOSITE MATERIAL SUITABLE FOR OZONE CATALYSIS TECHNOLOGY, PREPARATION METHOD AND APPLICATION THEREOF
00: -

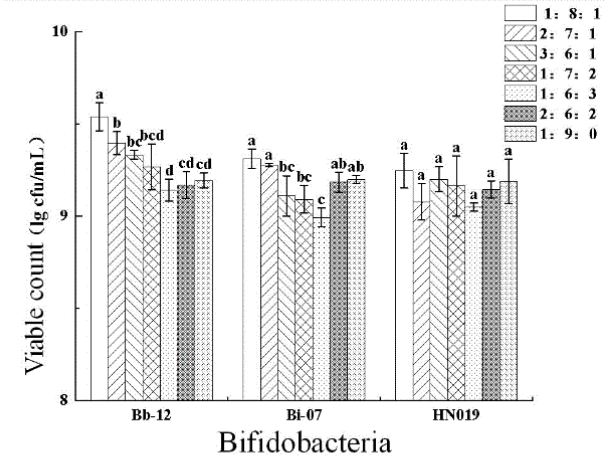
Disclosed is a molecular sieve composite material suitable for ozone catalytic technology, preparation method and application thereof. The preparation method includes: mixing iron source, manganese source and water to obtain a mixed solution; soaking biochar in the mixed solution, and drying to obtain Fe-Mn-BC; mixing the Fe-Mn-BC, alkali washed zeolite, calcium hydroxide, bentonite and sodium silicate solution to obtain a viscous mixture; coating the viscous mixture on surface of ceramsite, and sequentially granulating and calcining to obtain the molecular sieve composite material. A novel ozone catalyst made of Fe-Mn-BC composite material and supported on sludge-based ceramsite is prepared, two technologies of supported ozone catalysis and heterogeneous ozone catalytic oxidation are combined, the stability of active components is ensured by adopting a particle form, and the

municipal sludge waste is recycled at the same time, which provides a new idea and direction for treating wastewater by ozone catalytic oxidation degradation.

21: 2024/09710. 22: 2024/12/17. 43: 2025/07/14
51: C12N
71: JURONG PEOPLE HOSPITAL
72: CHEN Nan, YI Yongxiang, ZHAO Yawei, XUE Ning, QI Cong, YI Changhua
33: CN 31: 2024101825683 32: 2024-02-19
54: EUKARYOTIC RECOMBINANT EXPRESSION VECTOR, RECOMBINANT CELL, AND APPLICATION THEREOF FOR EXPRESSING HUMAN SOLUBLE NECTIN-4 EXTRACELLULAR DOMAIN PROTEIN
00: -
The invention relates to the field of bioengineering, in particular to a eukaryotic recombinant expression vector, a recombinant cell and an application thereof for expressing human soluble Nectin-4 extracellular domain protein. The expression vector of pCMV3-Nectin-4ECD-IgG1 is successfully constructed, the secretion and expression of the extracellular domain protein of Nectin-4 are successfully realized by applying the vector, and the high-purity fusion protein is obtained by the affinity chromatography purification method of Protein A, which lays a certain foundation for the research and application of Nectin-4 targeted drugs and the development of anti-measles drugs.



21: 2024/09711. 22: 2024/12/17. 43: 2025/07/14
51: A23L
71: NORTHWEST A&F UNIVERSITY
72: GE Wupeng, REN Yanxin, TONG Fenfen, FU Shangchen, LIU Mengjia, SHEN Yufei, JIAN Weiwen, ZHANG Yan
54: SYNBIOTIC COMPOUND FOR PROMOTING COLONIZATION OF BIFIDOBACTERIA AND PREPARATION METHOD THEREOF
00: -
The invention discloses a synbiotic compound and a preparation method thereof, where the prebiotics in the compound are polyglucose PDX, galactooligosaccharide GOS and isomerized lactose LOS, and the probiotic compound is a compound of Bifidobacterium Bb-12, Bifidobacterium Bi-07 and Bifidobacterium HN019; the final concentrations of polyglucose PDX, galactooligosaccharide GOS and isomerized lactose LOS are 2g/L, 14g/L and 4g/L respectively; the Bifidobacterium is inoculated according to the ratio of 1: 1: 1, the inoculation amount is 3%-5%, and the inoculation concentration is 1×107cfu/ml-1×1010cfu/ml. The synbiotic combination provided by the invention can promote the proliferation of Bifidobacterium and improve its colonization ability in intestinal tract.



Effect of polyglucose: galactooligosaccharide: isomerized lactose on viable count of bifidobacteria

21: 2024/09712. 22: 2024/12/17. 43: 2025/06/30
51: A61K; A61Q
71: RESEARCH INSTITUTE OF NON-TIMBER FORESTRY, CHINESE ACADEMY OF FORESTRY
72: WANG, Yan, QING, Jun, DU, Ping, WANG, Lu, LIU, Panfeng, DU, Qingxin, DU, Lanying, SUN, Zhiqiang, CHENG, Jiaqi, LI, Zhiguo

54: EUCOMMIA ULMOIDES TRADITIONAL CHINESE MEDICINE HYDROGEL FACIAL MASK PATCH AND PREPARATION METHOD AND APPLICATION THEREOF

00: -

Disclosed is a Eucommia ulmoides traditional Chinese medicine hydrogel facial mask patch and a preparation method and an application thereof. The Eucommia ulmoides traditional Chinese medicine hydrogel facial mask patch at least includes carboxymethylcellulose sodium, alginic acid and/or sodium alginate, xanthan gum, guar gum, sodium chloride, Eucommia folium extract, aloe vera extract, fibroin hydrolysate and propylene glycol. According to the present invention, the Eucommia ulmoides traditional Chinese medicine hydrogel facial mask patch contains a plurality of natural substances, does not contain chemical additives, has no side effects, and has a good skin sensation. The materials used are hydrogel and silk thin film. The prepared Eucommia ulmoides traditional Chinese medicine hydrogel facial mask has multiple effects of anti-aging, anti-bacterial, anti-inflammatory, whitening and moisturizing, moistening and beautifying maintenance. After use, the remaining facial mask can be dissolved in hot water for hand bath and foot bath.

21: 2024/09713. 22: 2024/12/17. 43: 2025/06/30

51: A61L

71: Jiaozhou Central Hospital of Qingdao

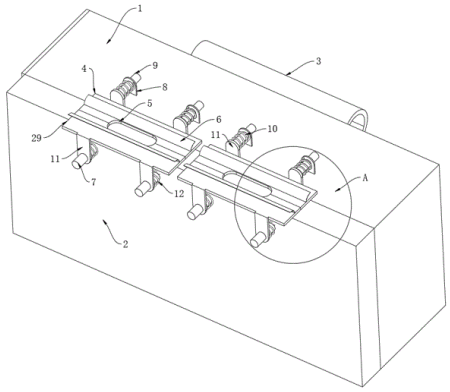
72: Lu SUN

33: CN 31: 2024114608529 32: 2024-10-18

54: DISINFECTION DEVICE FOR FEVER CLINIC NURSING

00: -

The present invention discloses a disinfection device for fever clinic nursing in the technical field of medical device disinfection equipment. The device comprises a main disinfection part, a side disinfection part is fixedly installed on one side of the main disinfection part, a clamping part is fixedly installed on the side of the main disinfection part away from the side disinfection part, a thermometer disinfection bin is fixedly installed on the upper end of the main disinfection part, a light disinfection bin is arranged below the main disinfection part corresponding to the thermometer disinfection bin, a plurality of through holes are provided on the thermometer disinfection bin and the light disinfection bin, a heating disinfection part is fixedly installed in the main disinfection part, an upper control part is fixedly installed on one side of the main disinfection part corresponding to the position of the thermometer disinfection bin, a lower control part is fixedly installed on one end of the main disinfection part close to the upper control part and corresponding to the position of the light disinfection bin , both the upper control part and the lower control part can fix and clamp medical devices, a stethoscope head slot is provided in the side disinfection part, and a device that is convenient to carry and can quickly disinfect medical devices is provided.



21: 2024/09714. 22: 2024/12/17. 43: 2025/06/30

51: E04B

71: Xinyu University

72: Ling PI, Jie LI, Zhusong Deng, Juan WANG, Qiulan GUO, Yujie LIU

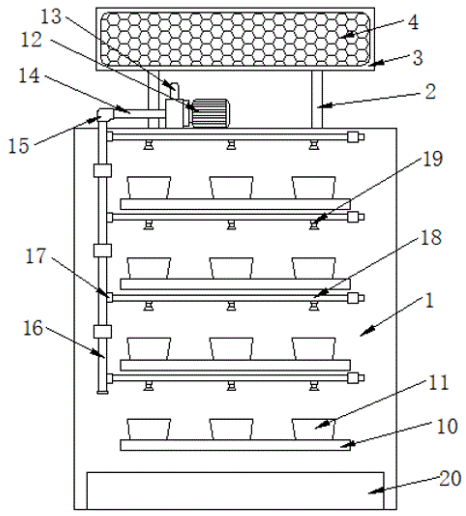
33: CN 31: 2024100761275 32: 2024-01-18

54: CONSTRUCTION METHOD FOR GREEN BUILDING WALLS

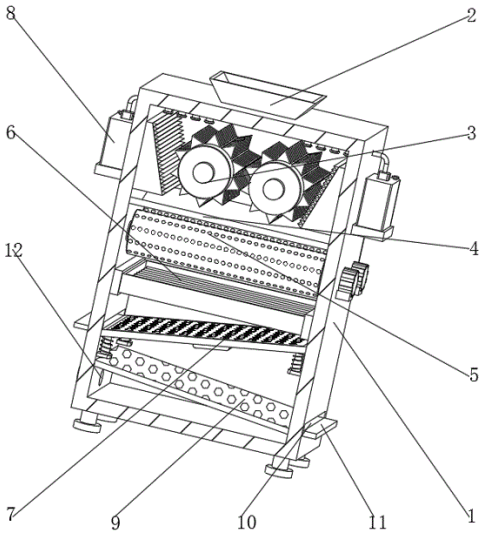
00: -

The present invention discloses a green building wall in the field of green environmental protection building technology, comprising a wall, fixing rods are vertically arranged on both left and right sides of the top of the wall, a mounting frame is connected to the tops of the fixing rods , a solar panel is arranged on the front end surface of the mounting frame, a mounting plate is arranged on the bottom of the rear end surface of the mounting frame, a battery mounting box is arranged on the top of the mounting plate, placement plates are arranged horizontally from top to bottom on the front end surface of the wall, cultivation pots are placed on the tops of the placement plates from left to right, and a water pump

is arranged on the left side of the top of the wall; in daily use, the solar panel can absorb light energy and convert it into electrical energy to store in the battery in the battery mounting box, the battery can provide power support for the work of the water pump, so that there is no need to connect an external power supply during work, and there is no need to consider the setting of wires when installing the entire wall, which can greatly reduce the complexity of installation and achieve the effect of energy saving and consumption reduction and green environmental protection.

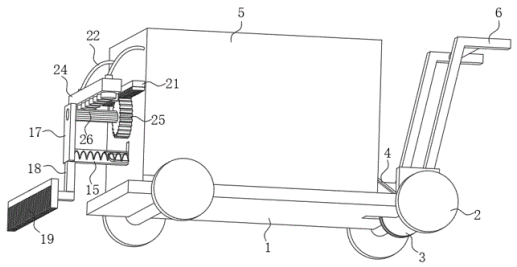


21: 2024/09715. 22: 2024/12/17. 43: 2025/06/30
51: E02B
71: Xinyu University
72: Jie LI,, Zhusong Deng, Ling PI, Qiulan GUO, Juan WANG, Yujie LIU
33: CN 31: 2024102536411 32: 2024-03-06
54: RECYCLING, CRUSHING AND SEPARATION EQUIPMENT FOR WASTE CONCRETE PRECAST COMPONENT
00: -
The present invention discloses a recycling, crushing and separation equipment for waste concrete precast components, which relates to the technical field of recycling waste concrete precast components, and comprises a box body, wherein a communicating delivery port is fixedly installed on the top of the box body, a crushing mechanism is rotatably connected to the top of the inner cavity of the box body, two groups of guide plates are fixedly installed below the crushing mechanism, a grinding mechanism is rotatably connected below the guide plate, an adsorption mechanism is fixedly installed below the grinding mechanism, a screening mechanism is fixedly installed at the lower end of the adsorption mechanism, dust removal components are symmetrically fixedly installed on the left and right sides of the upper end of the box body, a filter plate is fixedly installed below the screening mechanism, and a discharge port is opened through the inner wall of the lower right end of the box body. The present invention can absorb and recover metal materials in the crushed and ground fragments through the cooperation of a connecting block, an installation frame, a bearing seat, a rotating rod and a magnetic roller, thereby avoiding waste of resources caused by abandonment.



21: 2024/09716. 22: 2024/12/17. 43: 2025/06/30
51: A61L
71: Qingdao Central Hospital
72: Xia LIU, Jie LUAN, Lei GONG
33: CN 31: 2024114631258 32: 2024-10-21
54: PUBLIC HEALTH ATOMIZATION DISINFECTION DEVICE
00: -
The present invention discloses a public health atomization disinfection device in the field of public health technology , comprising a placement plate , a protection box is fixedly connected to the placement plate, and two groups of rollers are rotatably connected to the lower surface of the placement plate, wherein a push rod is arranged directly above one group of the rollers, and the lower end of the

push rod is fixedly connected to the upper surface of the placement plate; a driving assembly is arranged on the placement plate, a cleaning assembly is arranged on the side of the driving assembly, and a spraying assembly is arranged on the protection box; the driving assembly first drives the cleaning assembly to clean the ground first; through the coordinated use of the gear rod, the sliding rod and the trapezoidal groove, the cleaning block can clean up the debris on the ground when it moves to the right, and when the cleaning block moves back to the left, it breaks contact with the ground, thereby avoiding the cleaning block from cleaning the debris to the bottom of the protection box when it moves to the right, causing incomplete cleaning effect, ensuring the cleanliness of the ground before spraying and disinfection, and further improving the comprehensiveness of the disinfection.

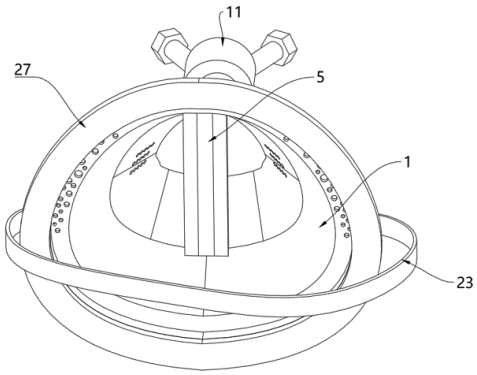


21: 2024/09717. 22: 2024/12/17. 43: 2025/06/30
51: A61M
71: Qingdao Central Hospital
72: Bo JIAO, Hanyu YU
33: CN 31: 202411407103X 32: 2024-10-10

54: MEDICINE SPRAYING AND OXYGEN SUPPLY BREATHING MASK FOR RESPIRATORY MEDICINE

00: -

The present invention discloses a medicine spraying and oxygen supply breathing mask for respiratory medicine in the technical field of breathing masks, comprising a mask, air inlet holes are formed on both sides of the inner wall of the mask, an exhaust hole is formed on the front side of the mask, a rotating column is rotatably connected to the mask, a partition plate is installed at one end of the rotating column, the partition plate is rotatably connected to the mask, sealing mechanisms are installed on both sides of the partition plate, a connecting pipe is fixedly connected to the rear side of the mask, an adjusting mechanism is installed on the connecting pipe, the adjusting mechanism is transmission-connected to the rotating column, a medicine spray pipe and an oxygen pipe are fixedly connected to the adjusting mechanism, and a fixing mechanism is installed on the mask, so that the device is more convenient to use, and at the same time, the device forms different cavity delivery, reduces discomfort when the device is used, and further improves the practicability of the device.



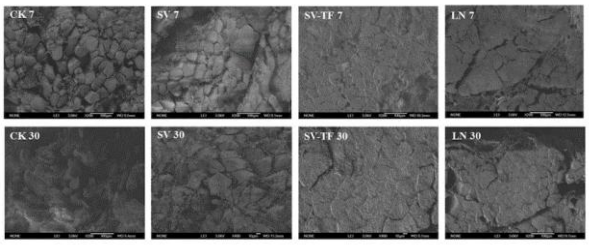
21: 2024/09718. 22: 2024/12/17. 43: 2025/06/30
51: A23L
71: Shandong Academy of Agricultural Sciences
72: Lina Liu, Sha Yang, Zhaoqi Li, Chao Ding, Yanli Ma
33: CN 31: 202411104686.9 32: 2024-08-13

54: A METHOD FOR MAINTAINING THE FLAVOR AND TEXTURE OF FROZEN PREPARED MEAT PRODUCTS

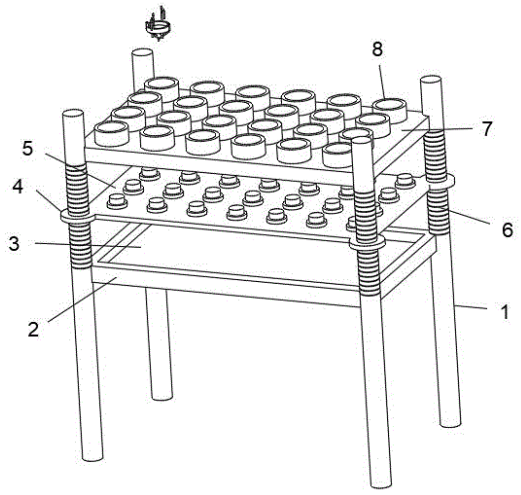
00: -

The invention belongs to the technical field of food processing, in particular to a method for maintaining the flavor and texture of frozen prepared meat products. The method includes the following steps: S1: Taking the meat of livestock and poultry, removing the excess fat and fascia, cutting them into cubes of meat; S2: Vacuuming pack the meat in S1, heating it at 70-75C for 40-50 min, removing it after cooking, and cool it to room temperature; S3: Putting the chilled meat in S2 in the pre-cooled sub-refrigerant, waiting for freezing to -18C, taking it out, and storing it at -18C; The carrier refrigerant consists of glucose, ethanol and water. Compared with the traditional cooking method, the invention starts with improving the flavor stability of the frozen prepared meat product, it can not only control the flavor and

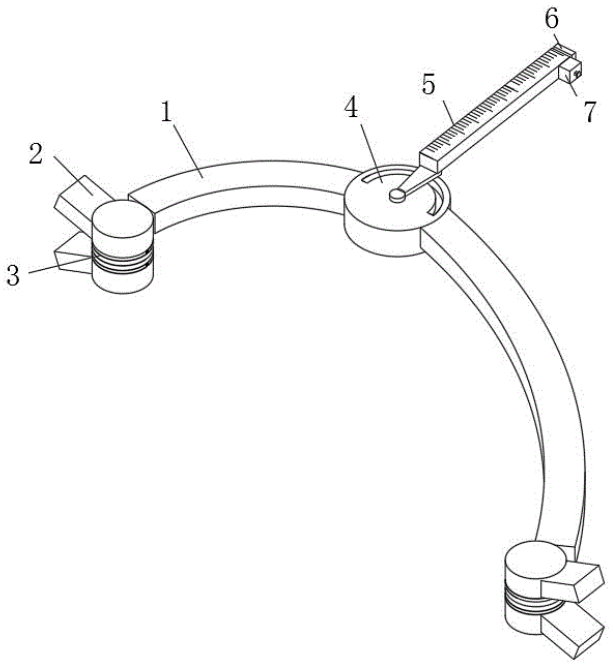
texture quality in the processing process, but also can adopt the ternary dipping freezing technology to freeze the product in the freezing process, reduce the formation of ice crystals, reduce the negative impact of long-term freezing on the volatile aroma components and taste substances of the prepared meat product, and can better retain the product flavor.



21: 2024/09719. 22: 2024/12/17. 43: 2025/06/30
51: A01G
71: Xizang Academy of Agriculture and Animal Husbandry Sciences
72: Chao Mi, Shimeng Li
54: A CULTIVATION EQUIPMENT AND CULTIVATION METHOD FOR OILSEED RAPE WITH HIGH OLEIC ACID
00: -
The invention relates to the technical field of cultivation equipment, in particular to a cultivation equipment and cultivation method for oilseed rape with high oleic acid, which comprises: A supporting rod whose surface is provided with a fixed plate; The fixing ring, the fixing ring is provided with a socket hole, the fixing ring is provided with a ring slot and a through hole, the fixing ring is provided with a culture dish, the surface of the culture dish is fixed with a hook, the surface of the culture dish is provided with a sponge strip, the bottom of the culture dish is provided with a socket rod; And vertical plate, is arranged on the bottom of the culture dish; The beneficial effects are: The rubber ring is located inside the fixing ring, the inserting rod is inserted in the inserting hole, and the top holding rod is held at the bottom of the fixing ring, so that there is a gap between the bottom of the culture dish and the bottom of the fixing ring. One end of the sponge strip is located inside the fixing ring, and the other end is located in the through hole. There is water in the water storage tank on the surface of the fixed plate. Moving the lift plate up so that the sponge is inserted into the through hole.



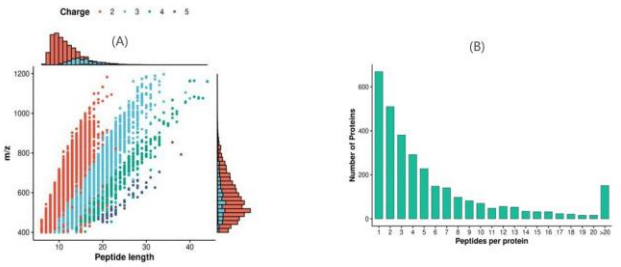
21: 2024/09720. 22: 2024/12/17. 43: 2025/06/30
51: A61B
71: Shanxi Provincial People's Hospital
72: Xiaofeng Qiao
54: A COCHLEAR IMPLANT POSITIONING AND MEASURING DEVICE
00: -
The present invention discloses a cochlear implant positioning and measuring device, belonging to the field of medical devices. It comprises a connecting rod, with fixing clamps provided at both ends of the connecting rod, and a protractor positioned in the middle of the connecting rod. A first measuring ruler is arranged above the protractor, and a second measuring ruler slides within the first measuring ruler. A protective assembly is provided at the clamp plates of the fixing clamps, and a limiting assembly is arranged at the connection between the first and second measuring rulers. The invention incorporates a protective assembly to enhance the comfort of the device when clamped to the patient's ear and to protect the ear. The antibacterial layer improves the antibacterial performance of the sponge block base, and the anti-fouling layer enhances its anti-fouling properties. Additionally, the invention features a limiting assembly, allowing the second measuring ruler to be directly positioned while sliding within the first measuring ruler without the need for subsequent fixation operations, thereby making the device convenient to use.



21: 2024/09721. 22: 2024/12/17. 43: 2025/06/30
51: G01N
71: The First Affiliated Hospital of Hainan Medical University
72: Su Chen, Jie Weng, Guilin He, Yuefen Chen, Yi Ling

54: THE PROTEIN MARKERS USED FOR THE DETECTION OF FETAL GROWTH RESTRICTION AND THEIR APPLICATION

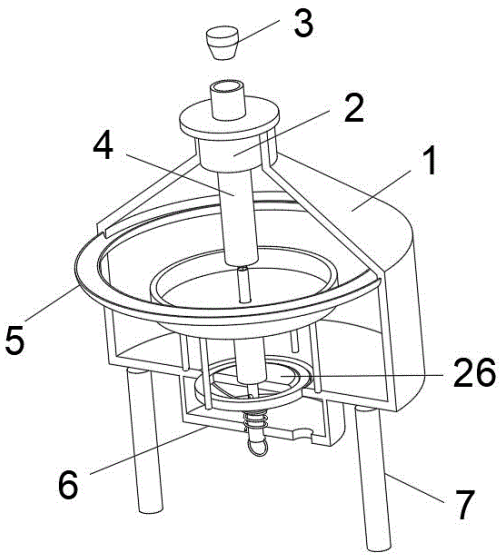
00: -
The invention relates to the field of proteomic detection technology, in particular to the protein markers used for the detection of fetal growth restriction and their application. The invention studies the amniotic fluid of the growth restricted fetus using LFQ quantitative proteomics based on mass spectrometry, and identifies a total of 235 differential proteins (137 up-regulated differential proteins, 98 down-regulated differential proteins) in the severely growth restricted fetus compared with the normal fetus. A total of 197 differential proteins (111 up-regulated differential proteins, 86 down-regulated differential proteins)) were identified in small gestational age fetuses compared with normal fetuses. Mass spectrometry-based targeted proteomic quantification (PRM) was used to verify the significantly different proteins and the iron death pathway-related proteins were verified by ELISA. Proteins TPP1, PRL, CRP, EDN3, LAMA2, ERP29, PDIA3, IGFBPL1, CHRD, CTNNBIP1, ALPL, CTSL, ACE, CEL, AHSP, TFRC can be used as protein markers for the detection of fetal growth restriction.



21: 2024/09722. 22: 2024/12/17. 43: 2025/06/30
51: A01D
71: The Second Affiliated Hospital of Anhui University of Chinese Medicine
72: Zhensheng Liang, Xiaoqing Liu

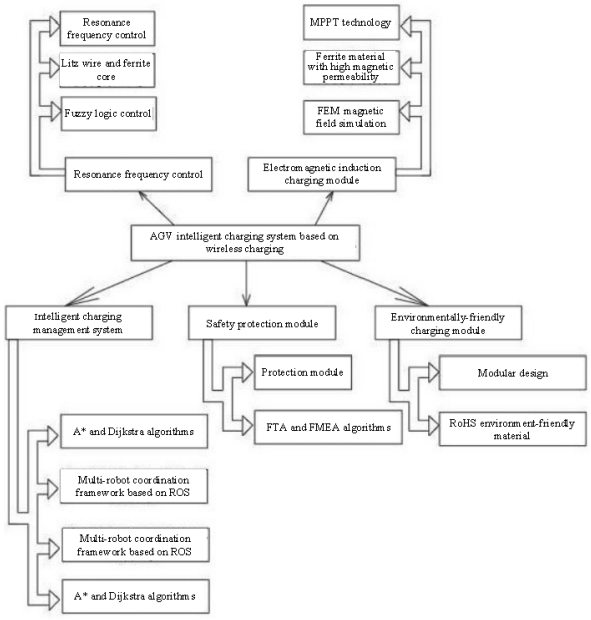
54: AN EXTRACTION AND CONCENTRATION DEVICE FOR ACTIVE INGREDIENTS IN TRADITIONAL CHINESE MEDICINE AND ITS PROCESS

00: -
The present invention relates to the field of extraction and concentration technology, specifically to an apparatus and process for the extraction and concentration of active ingredients in traditional Chinese medicine, including: a housing, with a first sealing plug provided at the top of the housing; a heating tank, with a second vertical pipe provided at the bottom of the heating tank, a support rod fixed at the bottom of the heating tank, and a lifting pipe at the bottom of the second vertical pipe, the surface of the lifting pipe being equipped with a connection hole, and the bottom of the lifting pipe being provided with a force-bearing rod, which is equipped with a pull ring at its end; a loop pipe, arranged inside the housing. The beneficial effects are as follows: The medicinal liquid of traditional Chinese medicine is poured into the interior of the housing through the first vertical pipe, the liquid flows onto the surface of the heating tank, and when the heating tank is filled, the liquid flows to the bottom of the housing, heating components are provided at the bottom of both the heating tank and the housing, allowing the medicinal liquid to be rapidly heated for extraction and concentration, the evaporated water condenses on the inner wall of the top of the housing and flows down the inner wall into the loop pipe.



21: 2024/09726. 22: 2024/12/17. 43: 2025/06/30
51: H02J
71: SHENZHEN SOLING COMMUNICATION TECHNOLOGY CO., LTD
72: LIU, ZeYang
54: AGV INTELLIGENT CHARGING SYSTEM BASED ON WIRELESSCHARGING
00: -

The present invention discloses an AGV intelligent charging system based on wireless charging, and relates to the technical field of charging systems. The system includes: a magnetic resonance charging module, having a PLL module provided therein and used to accurately match the resonance frequency of closed-loop control; an electromagnetic induction charging module, having an FEM magnetic field module provided therein, and used to optimize a shape and a position of a coil and acquire optimal coupling parameters; an intelligent charging management system, having an A* algorithm combined with a Dijkstra algorithm; a safety protection module, having an FTA algorithm and an FMEA algorithm provided therein and used to detect and diagnose faults of the charging system in real time; and an environmentally-friendly charging module. The present invention achieves high-efficiency charging experience, a digital phase-locked loop ensures the accurate matching of the resonance frequency, and the optimization of the FEM magnetic field module ensures that the shape and the position of the coil are optimal, thereby improving the charging efficiency, and the application of a fuzzy logic control algorithm and an MPPT technology further improves the charging speed and the charging stability.

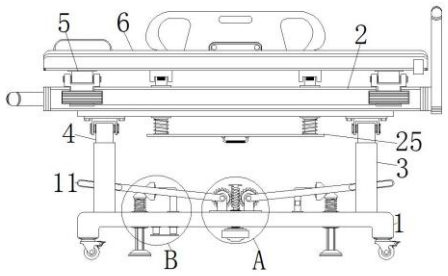


21: 2024/09729. 22: 2024/12/17. 43: 2025/06/30
51: G06F
71: ZHANG, Yiqing
72: ZHANG, Wenguang, ZHANG, Yiqing
33: CN 31: 202210789920.0 32: 2022-07-06
33: CN 31: 202211450403.7 32: 2022-11-19
33: CN 31: 202310796130.X 32: 2023-07-01
54: IMPLEMENTATION METHOD FOR PAPER-ORIENTED VISUAL IDENTIFICATION ANTI-COUNTERFEITING ELECTRONIC SEAL
00: -

An implementation method for a paper-oriented visual identification anti-counterfeiting electronic seal, is configured with an electronic seal authentication communication interface. A seal pattern of the electronic seal comprises a stationary information unit and a dynamic information unit; the dynamic information unit comprises a stamped sample association code (3) and an authorization counterparty association code (4); an electronic seal operator submits communication tool number information; the electronic seal function software selects the communication tool number information as the authorization counterparty association code (4), and positions and presents same in the generated seal pattern; and the electronic seal function software authenticates and associates the

authorization counterparty association code (4) and a stamped sample. The authorization counterparty uses the authenticated and associated communication tool number to conduct anti-counterfeiting authentication for the stamped sample. The electronic seal function software is managed by a third-party authentication mechanism.

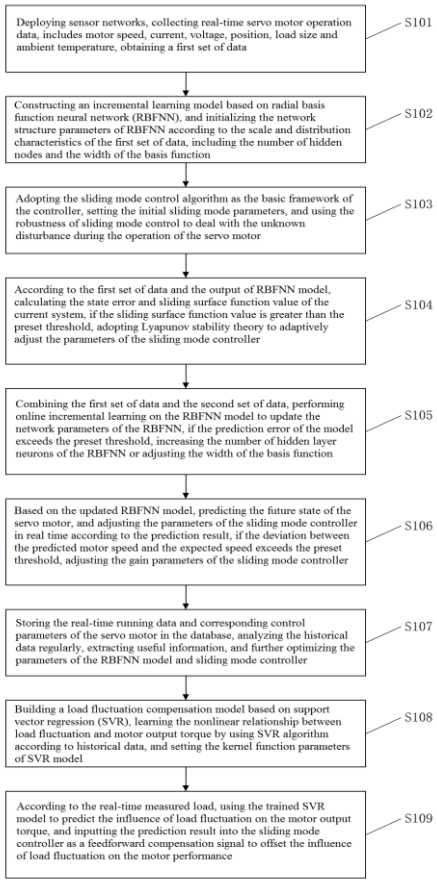
21: 2024/09731. 22: 2024/12/17. 43: 2025/06/30
51: A61G
71: AFFILLATED CANCER HOSPITAL AND INSTITUTE OF GUANGZHOU MEDICAL
72: Jiding Fu, Junjie Zhang, Chunhui Gao, Nan Li, Ge Wang
54: A TRANSPORT STRETCHER FOR EMERGENCY AND CRITICAL CARE IN INTERNAL MEDICINE, DESIGNED FOR EASY LIFTING OF PATIENTS
00: -
The present invention discloses a transport stretcher for emergency and critical care in internal medicine, designed for easy lifting of patients. The stretcher includes a caster base, with a mounting plate located above the caster base. A support rod is fixedly mounted at the top of the caster base, with the support rods symmetrically arranged on both sides of the vertical central axis of the caster base, both left and right, as well as front and rear. Inside the support rod, a telescopic rod is connected to slide. At both ends of the mounting plate, there are rollers that slide and are symmetrically arranged along the vertical central axis of the mounting plate, both front and rear. Above the mounting plate, a bed board is provided, and the bottom of the bed board is rotatably connected to the top of the rollers. This transport stretcher for emergency and critical care in internal medicine allows better height adjustment through lifting, providing flexibility for different scenarios and patient needs. It also makes it easier for medical staff to transfer patients.



21: 2024/09754. 22: 2024/12/18. 43: 2025/06/30
51: A23L
71: Siping Yixiangge Catering Consulting Management Co., Ltd.
72: GONG, Yuehui, LIU, Jingchun, GONG, Yuehong, CHEN, Tieming, LUO, Peiheng, ZHANG, Xiuchen, YIN, Guangzhi
54: DUMPLING AND MAKING METHOD THEREFOR
00: -
The present invention relates to a dumpling and a making method therefor. The dumpling includes dumpling stuffing and a dumpling wrapper, where the dumpling stuffing is composed of 30-33 parts of shiitake mushrooms, 6-13 parts of black fungi, 3-6 parts of green beans, 20-30 parts of lean meat, 1-3 parts of carrots, 3-6 parts of fresh dried small shrimps, 3-6 parts of soybean protein, 6-13 parts of pig fat, 1-4 parts of a flavoring agent, 1-3 parts of a flavor enhancer, and 1-6 parts of a viscosity enhancer by mass; and the dumpling wrapper includes 10-20 parts of glutinous rice flour and 80-90 parts medium-gluten flour by mass.

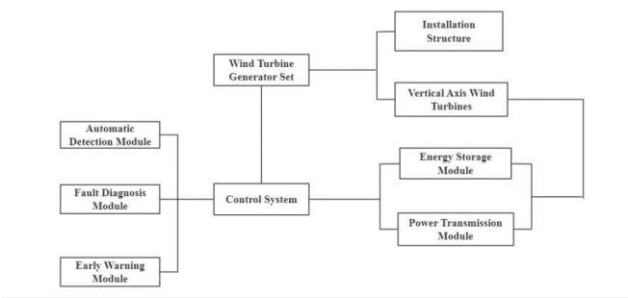
21: 2024/09755. 22: 2024/12/18. 43: 2025/07/14
51: H02P
71: TANGSHAN UNIVERSITY
72: DAI Yan, MA Zhuang, WANG Chengyi
54: CONTROL METHOD OF SERVO MOTOR NONLINEAR SYSTEM
00: -
The invention discloses a control method of servo motor nonlinear system, belongs to the technical field of servo motor nonlinear system control, the control method includes following steps: obtaining a servo motor operation mode based on servo motor operation data; obtaining an evaluation result by carrying out health evaluation and life prediction of the servo motor based on the servo motor operation mode; at the same time, constructing an incremental learning model, inputting the servo motor operation

data into the incremental learning model to obtain adaptive sliding mode controller parameters, and realizing nonlinear system control of the servo motor based on the adaptive sliding mode controller parameters.



21: 2024/09756. 22: 2024/12/18. 43: 2025/06/30
51: C12N
71: Wuhu Xia
72: Wuhu Xia
33: CN 31: 2024114873967 32: 2024-10-24
54: TARGETED GENE RECOMBINATION METHOD
00: -
A targeted gene recombination method, comprising the following steps: preparation of a linear recombinant vector, preparation of gene of interest, gene recombination, and gene repair. The recombinant system of the invention is simple and only requires a recombinant vector, gene of interest, recombinant primers, and a gene amplification system; the invention utilizes a linear recombinant vector and the two ends of the gene of interest with homologous sequence; during the gene amplification process, the gene of interest is introduced into the end of the recombinant vector, and the recombination process is completed after gene repair; the recombination does not require the vector to have a free single-stranded sequence; the recombination efficiency is high, the cycle is short, and it is suitable for various recombinant operations involving amplifiable gene of interest in routine experiments and engineering fields.

21: 2024/09757. 22: 2024/12/18. 43: 2025/06/30
51: F03D
71: Zenghui Li
72: Zenghui Li
33: CN 31: 2024109323878 32: 2024-07-12
54: WIND POWER GENERATION SYSTEM UTILIZING RAILWAY OR HIGHWAY FACILITIES AND METHOD THEREOF
00: -
A wind power generation system utilizing railway or highway facilities and a method thereof, by setting vertical axis wind turbines connected in series on both sides or in the middle of the railway or highway facilities, wind power generation is carried out using the strong airflow generated by vehicles passing through. The advantages of the invention compared with existing technologies are: by optimizing the layout and structure of the wind turbine and upgrading the control system, it achieves efficient capture and utilization of high-pressure and high-speed airflow generated by railway or highway facilities, and improves energy utilization efficiency; utilizing clean and environmentally friendly energy and cleverly utilizing existing rail transit facilities or highway facilities reduces manufacturing and maintenance costs and reduces the impact on the ecological environment; it has wide coverage and significant effects in open areas; this technical solution has technical feasibility, economic feasibility and environmental feasibility, and is of great significance in promoting the optimization of the energy structure and improvement of the environment along high-speed railways or highways.

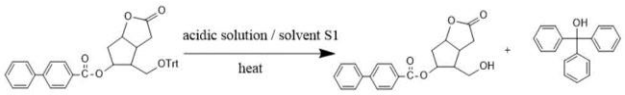


21: 2024/09758. 22: 2024/12/18. 43: 2025/06/30
51: C07C
71: Jilin Medical University
72: ZHIMING XIU, CHENG HU, YANGYANG WANG, WEILONG YANG, JIAXUE LIU, MO CHEN, SHUJUAN WANG, MEIQI SUN, LIPING ZHU, YINSHUO XU

54: A METHOD FOR THE PREPARATION OF BIPHENYL-4-FORMYL COREY LACTONE AND TRIPHENYLMETHANOL

00: -

The present invention discloses a method of concurrently making Biphenyl-4-formylcorey lactoneCorey lactone, which is based on the commercial bis-hydroxy derivative of Corey lactone diol, and a hydrolysis reaction occurs at the position of primary hydroxyl group under acidic conditions to neutralize the reaction system. Then crystallization and recrystallization are carried out separately to produce Biphenyl-4-formylcorey lactone Corey lactone.The advantages of the present invention are as follows: the steps are few, the conditions are mild and easy to control; the neutralization reaction solution is fully utilized to carry out crystallization, and the Biphenyl-4-formylcorey lactone Corey lactone is produced separately from the reaction system. lactone is separated from the reaction system, and Biphenyl-4-formylcorey lactoneCorey lactone is prepared in one go, which saves time, is highly efficient, and realizes an unexpected effect; Biphenyl-4-formylcorey lactoneCorey lactone is recrystallized by using dual solvents, and Biphenyl-4-formylcorey lactoneCorey lactoneCorey lactone is recrystallized by using dual solvents. lactone was recrystallized, and the resulting triphenylmethanol or biphenyl-4-formylcorey lactoneCorey lactone had low impurity, high yield and high purity; the solid waste of triphenylmethanol was turned into treasure, eliminating the cost of treatment of this waste and lowering the production cost.

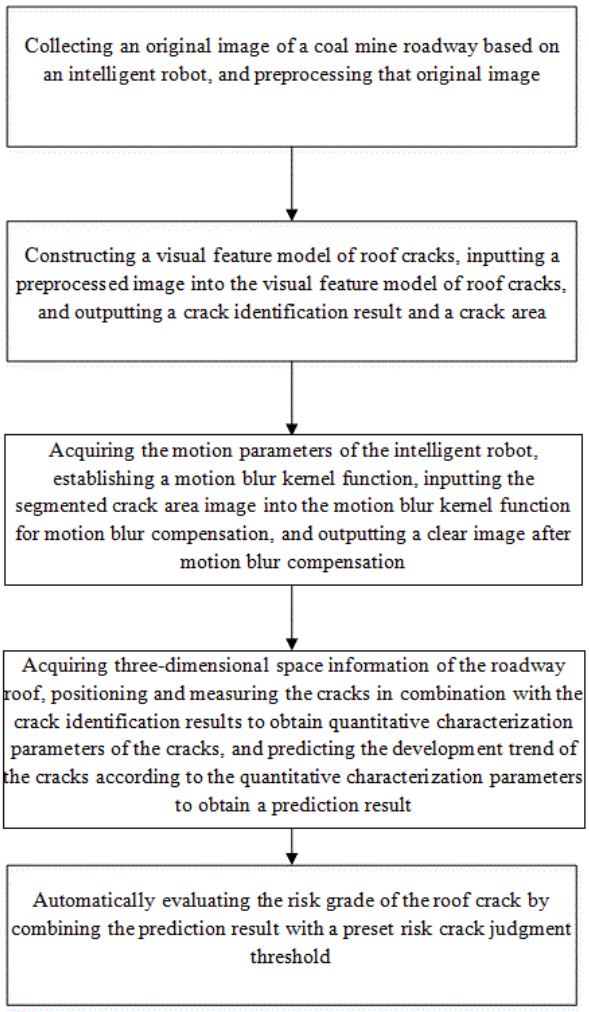


21: 2024/09759. 22: 2024/12/18. 43: 2025/07/14
51: G01B
71: Xinjiang Institute of Engineering
72: YANG Sen, MA Liqiang, XU Juan
33: CN 31: 2024117141937 32: 2024-11-26

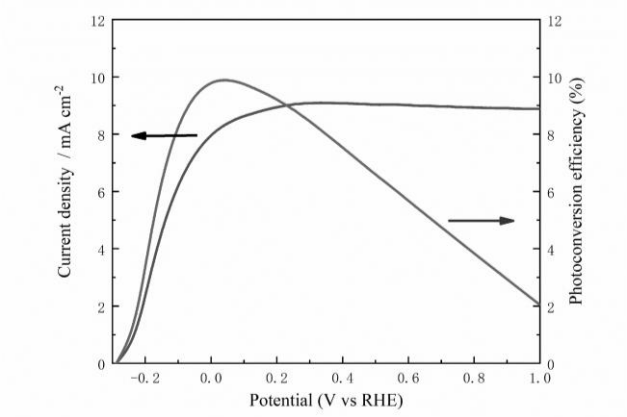
54: ROADWAY ROOF MONITORING METHOD AND SYSTEM BASED ON INTELLIGENT ROBOT INSPECTION

00: -

The invention discloses a roadway roof monitoring method and system based on intelligent robot inspection, which comprises the following steps: acquiring an original image of a coal mine roadway, inputting the preprocessed image into a visual feature model of roof cracks, outputting a crack identification result and a crack area, and dividing the crack area and the background area; establishing a motion blur kernel function, inputting the segmented image into the motion blur kernel function, and outputting a clear image after motion blur compensation; based on the intelligent robot, the three-dimensional spatial information of the roadway roof is obtained, and the cracks are located and measured in combination with the crack identification results, so as to obtain the quantitative characterization parameters of the cracks, and the quantitative characterization parameters are used to predict the development trend of the cracks through the spatio-temporal evolution model of the roof cracks, and the prediction results are output; the risk grade of roof cracks is automatically evaluated by combining the prediction results with the preset threshold value of dangerous cracks. The invention improves the intelligence and automation level of coal mine roof safety monitoring.

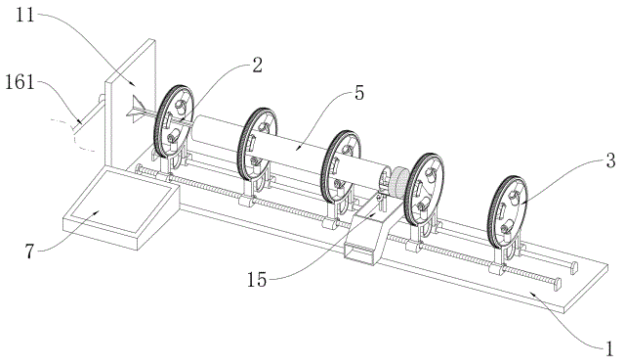


21: 2024/09760. 22: 2024/12/18. 43: 2025/07/14
51: H01L
71: Chengchuan Green Hydrogen New Energy (Jinan) Co., Ltd
72: ZHAO Baoshun, YIN Bo, FENG Haoxuan, JIA Qiang, XIAO Xue, LI Zhiguo, LIU Yang
54: FILM COMPOSITE NANOMETER SEMICONDUCTOR OPTOELECTRODE MATERIAL
00: -
The invention discloses a film composite nanometer semiconductor optoelectrode material, belongs to the field of preparation of optoelectrode composite materials. Based on the combination of low-cost liquid phase growth, chemical vapor deposition and vapor phase annealing process, the invention realizes the controllable preparation of various semiconductor nanomaterials of the composite film, and greatly enhances its optical absorption performance and weather resistance under full-spectrum sunlight. The optoelectrode prepared by the invention has the advantages of good light absorption and weather resistance, novel preparation method, readily available raw materials, simple process, convenient operation, low cost, environmental friendliness and the like, and the whole reaction process has low requirements on preparation equipment and has good practical application prospects.

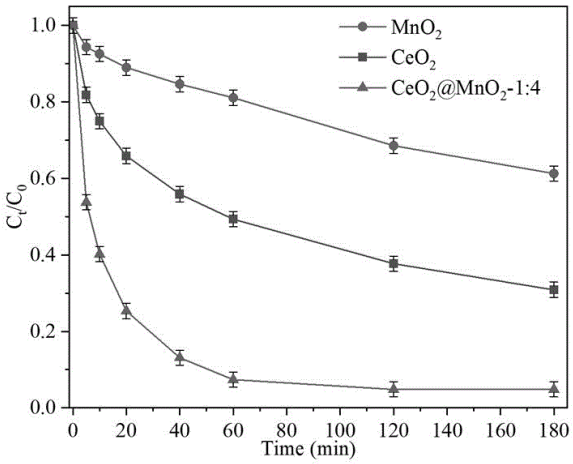


21: 2024/09761. 22: 2024/12/18. 43: 2025/06/30
51: B24B
71: Zhejiang Shengjie Titanium Technology Co., Ltd.
72: Shengjie Wang, Tengyu Yang, Xinyue Chen, Yulin Zhou, Yitao Fan, Shouhan Wang, Xiaowen Sun
33: CN 31: 2024106960342 32: 2024-05-31
54: TITANIUM ALLOY TUBE INTERNAL AND EXTERNAL GRINDING DEVICE
00: -
A titanium alloy tube internal and external grinding device includes a support base, a grinding support rod, tube fixing ring components, an internal and external tube wall grinding component, a titanium alloy tube workpiece, and an electric control panel; through a plurality of tube fixing ring components set up in an array, the device pushes the clamping roller through the clamping push rods, so that the clamping roller realizes the effect of fixing and clamping the titanium alloy tube workpiece of different diameters and sizes, and at the same time the rotation of the clamping roller causes the titanium alloy tube workpiece to realize horizontal displacement; the internal grinding whee1 and the external grinding wheel are controlled to move up and down by the internal push rod and the external push rod respectively, so that the internal grinding

whee1 and the external grinding wheel can be applied to the grinding of titanium alloy tube workpieces with different diameters and sizes or different wall thicknesses, which, in combination with the horizontal displacement of the titanium alloy tube workpiece, can realize the complete grinding effect of the titanium alloy tube workpiece in the length direction.



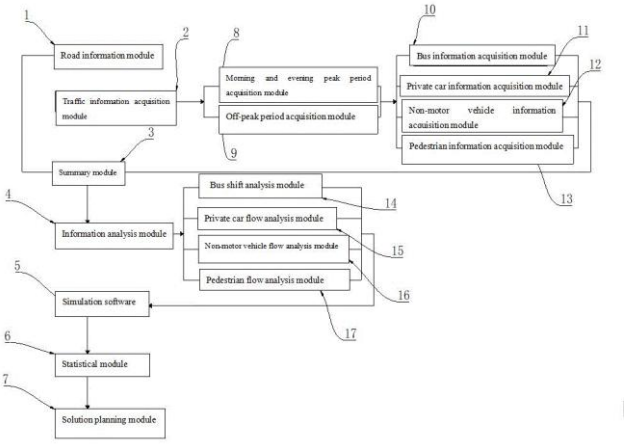
21: 2024/09762. 22: 2024/12/18. 43: 2025/06/26
51: G01N
71: Henan University of Urban Construction
72: Zhang Jinhui, Zhu Xinfeng, Wang Chaohai, Liu Xueping, Mao Yanli, Wang Junning, Song Zhongxian, Jiang Libin, WangKai, Peng Rongfu, Li Guofeng, Yin Shiqiang, Sun Jiawei, Liu Jingquan, Chang Linlin, Ma Fengfeng, HanYu, Li Zhengjie, Bai Aoxuan, Lei Yating, Shui Jiayi
33: CN 31: 2024113265254 32: 2024-09-23
54: METHOD FOR DEGRADING ORGANIC POLLUTANTS
00: -
The present invention discloses a method for degrading organic pollutants, relating to the technical field of water pollution control engineering. The present invention includes the following steps: mixing, grinding and roasting cobalt slag and red mud to obtain a composite material with cobalt and iron as main active components; mixing roasted material with persulfate to obtain a mixture; and dispersing the mixture into a water body containing organic pollutants to be treated for degradation to obtain a degraded water body. In the present invention, by adopting a roasting method, Co3O4@Fe2O3 with excellent catalytic performance is obtained. Co3O4@Fe2O3 not only adsorb the organic pollutants, but also activate the persulfate to degrade the organic pollutants to realize deep catalytic oxidation of pollutants. At the same time, a leaching rate of metal ions is small. Co3O4@Fe2O3 in the present invention is widely applicable to a variety of pollutants and exhibits minimal susceptibility to influence of pH values and other common ions in water. It is suitable for water pollution treatment in multiple environments. Reacted materials can be reused after roasting.



21: 2024/09763. 22: 2024/12/18. 43: 2025/06/26
51: A01G
71: Zhaotong Academy of Agricultural Sciences
72: HU, Zuo, LI, Zhou, YANG, Ju, TU, Guojing, LI, Huailong
54: HIGH-YIELD CULTIVATION METHOD FOR SOLANUM TUBEROSUM
00: -
Disclosed is a high-yield cultivation method for Solanum tuberosum, which relates to the technical field of Solanum tuberosum planting, and the main points of its technical solutiones are as follows. In the present invention, the reasonable structure of the Solanum tuberosum population and the robustness of the individual can be maintained for a long time by soil improvement, germination treatment, pruning of the main stem of the Solanum tuberosum, construction of a simple bracket, removal of flower buds, and reasonable field management, increasing the yield.

21: 2024/09764. 22: 2024/12/18. 43: 2025/06/26
51: G06Q
71: East China Jiaotong University
72: Jia Chongqiang, Feng Daoming, Liu Kai
54: SMART CITY TRAFFIC PLANNING SYSTEM BASED ON SIMULATION DYNAMIC SIMULATION TECHNOLOGY

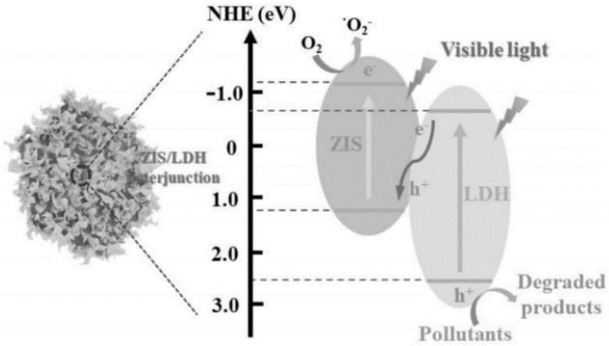
00: -
The present invention provides a smart city traffic planning system based on simulation dynamic simulation technology, which falls with the technical field of traffic planning. The system includes a road information module configured to collect road distribution information and road intersection information; a traffic information acquisition module configured to acquire information of pedestrians, vehicles and the like on the road; a summary module configured to summarize information of the road information module and the traffic information acquisition module; an information analysis module configured to analyze summarized information in the summary module; a simulation software configured to simulate and demonstrate data analyzed in the information analysis module for many times; and a statistical module configured to make statistics on delays, congestion, accidents and other situations in a plurality of simulation processes of the simulation software. There are many information conditions combined a whole traffic solution planning, which makes a planned traffic solution more in line with the actual situation and can plan regional road traffic, being more conducive to practical use and reduce actual management costs.



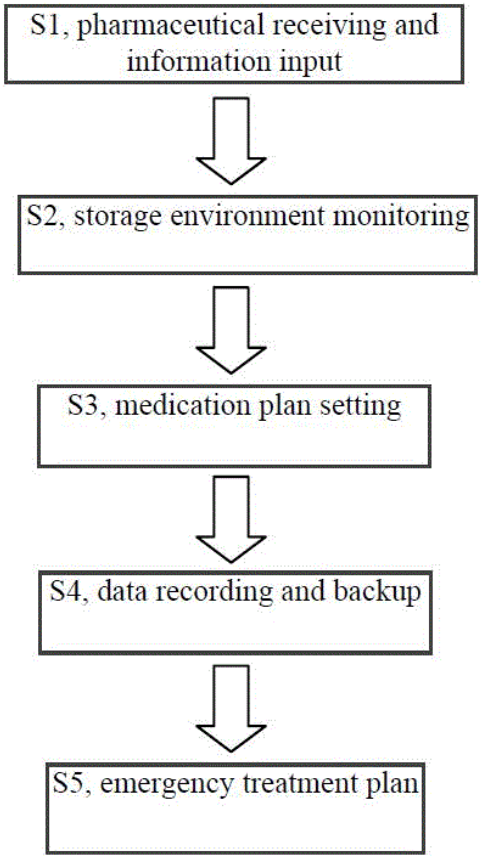
21: 2024/09765. 22: 2024/12/18. 43: 2025/06/26
51: A61K
71: Hangzhou Institute of Food and Drug Inspection Science (Hangzhou Adverse Reaction Monitoring Center for Drugs and Medical Devices)
72: ZHANG, Wei, MA, Zhao, SHI, Si, SHEN, Guofang, YU, Jia, ZHENG, Xiaoying, WANG, Yujun
54: PROCESSING METHOD FOR CORYDALIS YANHUSUO SLICES

00: -
The present invention provides a processing method for Corydalis Yanhusuo slices, falling within the technical field of traditional Chinese medicine. In the processing method for Corydalis Yanhusuo slices, Corydalis Yanhusuo is boiled, dried and sliced, and the loss in a slicing process can be reduced and the completeness of the Corydalis Yanhusuo slices can be improved. Gradient drying after slicing can further prevent the contamination of Aspergillus flavus, and meanwhile, the gradient drying does not affect shapes of the Corydalis Yanhusuo slices. The method of the present invention can effectively prevent pollution of Aspergillus flavus, reduce content of the aflatoxin in a storage process of the Corydalis Yanhusuo slices. Meanwhile, the integrity of the slices is not affected, problems of high aflatoxin and high loss rate in the Corydalis Yanhusuo slices are fundamentally solved, and quality of the Corydalis Yanhusuo slices is effectively improve.

21: 2024/09766. 22: 2024/12/18. 43: 2025/06/26
51: B01J
71: Qinghai Normal University
72: GAO Qiang
33: CN 31: 2023118358852 32: 2023-12-28
54: PREPARATION METHOD OF CORE-SHELL COMPOSITE PHOTOCATALYTIC MATERIAL FOR TREATING DYE WASTEWATER
00: -
The invention provides a preparation method of a core-shell composite photocatalytic material for treating dye wastewater, which relates to the field of environmental protection, and comprises the following steps: LDH is obtained by hydrothermal process at low temperature, and its morphology is hexagonal lamellar structure. Znln2S4 nanosheets grow on the surface of flaky LDH in situ through low-temperature oil bath reaction, forming a core-shell structure in which Znln2S4 nanosheets coat hexagonal LDH. According to the invention, a morphology control strategy is adopted, and two-dimensional Znln2S4 is grown on the surface of hexagonal LDH lamellar structure in situ through low-temperature oil bath reaction, and the obtained Znln2S4/LDH photocatalytic core-shell composite material has excellent visible light absorption capacity.

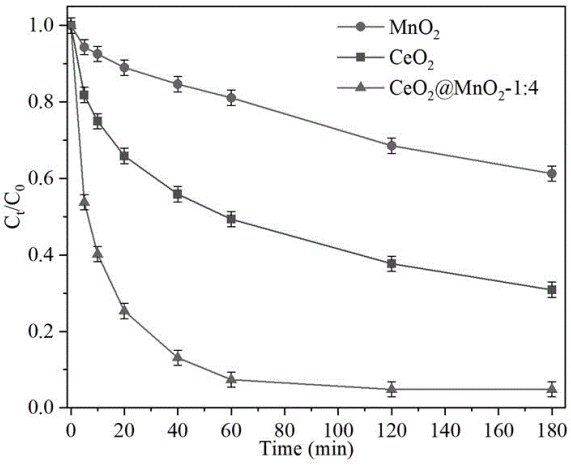


21: 2024/09767. 22: 2024/12/18. 43: 2025/06/26
51: G06Q
71: Shanghai Pulmonary Hospital
72: Wu Jiayue, Qin Jiayin
33: CN 31: 2024117781187 32: 2024-12-05
54: PHARMACEUTICAL MANAGEMENT METHOD AND SYSTEM IN CLINICAL TRIAL NURSING PROCESS OF TRIAL PHARMACEUTICALS
00: -
The present invention provides a pharmaceutical management method and system in a clinical trial nursing process of trial pharmaceuticals. The method includes: recording the basic information and medication information of subjects based on an electronic medical record system, and monitoring the whole process of distribution, taking, recording and recycling of pharmaceuticals through intelligent equipment or terminals. The system collects the data of pharmaceutical distribution and taking in real time, and combines the feedback information from the subjects to generate a monitoring report and automatically adjust a pharmaceutical distribution plan. In addition, the system supports abnormal alarm to ensure the compliance of pharmaceutical use and the safety of subjects. Through the present invention, the nurse realizes the intellectualization and standardization of the trial pharmaceutical management, effectively improving the efficiency and accuracy of the clinical trial nursing process, and ensuring the safety supervision of the trial pharmaceuticals.

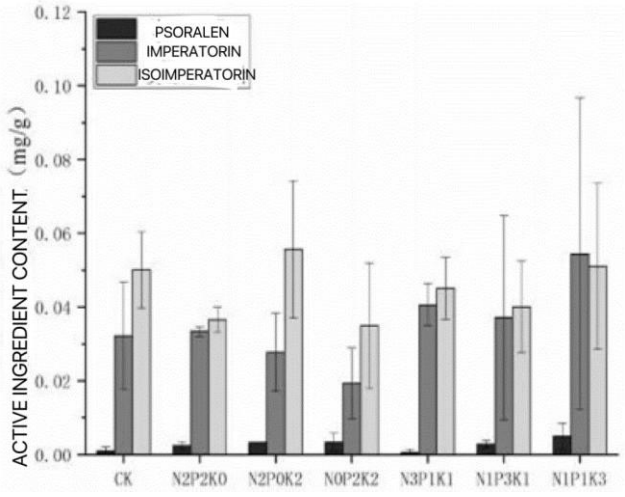


21: 2024/09768. 22: 2024/12/18. 43: 2025/06/26
51: B01J
71: Henan University of Urban Construction
72: Zhang Jinhui, Zhu Xinfeng, Wang Chaohai, Liu Xueping, MaoYanli, Wang Junning, Song Zhongxian, Jiang Libin, Wang Kai, Peng Rongfu, Li Guofeng, Yin Shiqiang, Sun Jiawei, Liu Jingquan, Chang Linlin, Ma Fengfeng, HanYu, Li Zhengjie, Bai Aoxuan, Lei Yating, Shui Jiayi
33: CN 31: 2024113036522 32: 2024-09-19
54: METHOD FOR PREPARING CEO2@MNO2 COMPOSITE MATERIALS
00: -
The present invention provides a method for preparing CeO2@MnO2 composite materials relates to the technical field of water pollution control engineering. While the present invention includes a method for preparing CeO2@MnO2 composite materials including the following steps: preparing of MnO2 Nanorods: preparing MnO2 Nanorods by hydrothermal method; preparing of CeO2: preparing CeO2 by co-precipitation method; preparing of CeO2@MnO2 serial composite materials: preparing composite material CeO2@MnO2 by precipitation

method; preparing of mixture: mixing the composite material CeO2@MnO2 with persulfate; and degradating of organic pollutants: dispersing the mixture in the water body containing organic pollutants to be treated for degradation to obtain the degraded water body. The present invention obtains CeO2@MnO2 with excellent catalytic performance by adopting a precipitation method. A strong interaction between the components of CeO2@ and MnO2 in MnO2CeO composite materials, promoting an in-situ synergy of adsorption and catalysis of pollutants, and at the same time facilitates interfacial transfer of electrons, so that static and dynamic systems can effectively oxidize organic pollutants in water.



21: 2024/09769. 22: 2024/12/18. 43: 2025/06/26
51: C05G
71: Chifeng Institute of Agriculture and Animal Husbandry Science
72: WANG, Yan, WANG, Shengnan, GAO, Zhihui, LI, Xiaoru, DENG, Yu, QU, Yingchao, RONG, Di, YU, Huanhuan, ZHAO, Jianping, NA, Rina, WU, Rentuya, LI, Wenwen, SUO, Limo
33: CN 31: 202410401119.3 32: 2024-04-03
54: SPECIAL FERTILIZER FOR PLANTING GLEHNIA LITTORALIS AND PREPARATION METHOD THEREOF
00: -
The invention relates to the technical field of chemical fertilizers, and discloses a special fertilizer for planting glehnia glehnia and a preparation method thereof. The special fertilizer for planting glehnia glehnia consists of the following components in parts by weight: 10-17 parts of nitrogen, 13-21 parts of phosphorus and 9-16 parts of potassium; The fertilizer application amount of the special fertilizer is 30-40kg/mu; The special fertilizer improves the contents of psoralen, imperatorin and isoimperatorin in Radix Glehniae. The preparation method specifically comprises the following steps: uniformly mixing 220-369 parts of urea, 695-1166 parts of calcium superphosphate and 177-298 parts of potassium sulfate to obtain the special fertilizer for planting Radix Glehniae. The invention discloses a special fertilizer for planting Glehnia littoralis, which is composed of nitrogen, phosphorus and potassium, and can ensure the quality improvement and efficiency of medicinal materials and crop yield under the condition of reducing the amount of chemical fertilizer, and prevent the excessive amount of chemical fertilizer.



21: 2024/09771. 22: 2024/12/18. 43: 2025/06/30
51: A61P
71: Shandong Medical College
72: LI, Xia, WANG, Hongwei, DONG, Zhen, LIU, Guoju, LIU, Xinyong, LI, Wei, CHEN, Rui
54: SIRNA INTERFERING COMPOSITION FOR INHIBITING BREAST CANCER TUMOR GROWTH AND METASTASIS AND USE THEREOF
00: -
The present invention relates to the field of tumor therapeutic drug application, and particularly to a small interfering RNA (siRNA) interfering composition for inhibiting breast cancer tumor growth and metastasis and the use thereof. The siRNA interfering composition of the present invention is composed of an oligonucleotide VEGF-C-siRNA molecule, an oligonucleotide survivin-siRNA molecule, and an oligonucleotide C35-siRNA

molecule. The composition of the present invention is effective in inhibiting breast cancer tumor growth and metastasis in vivo. Furthermore, the chemically synthesized oligonucleotides are not easily degraded, have a long half-life of effect, and can be utilized for in vitro tests and in vivo treatment.

21: 2024/09772. 22: 2024/12/18. 43: 2025/06/30
51: B01D
71: Tarim University
72: ZHANG, Hongxi, HU, Dechao, MA, Xiaoyan, CHEN, Yahui

54: GRADED REMOVAL METHOD OF MERCURY ELEMENT IN COAL

00: -

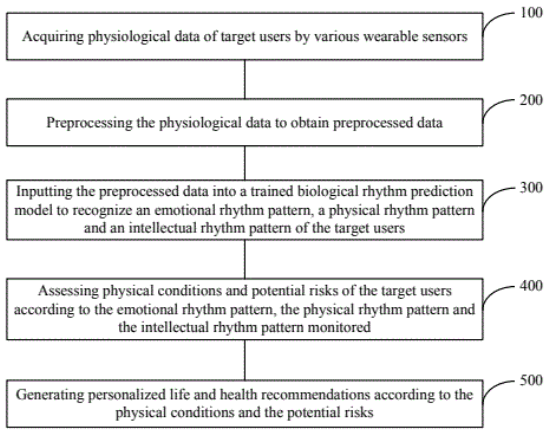
The present invention relates to the technical field of coal processing, and particularly to a graded removal method of mercury element in coal. In the present invention, the ultrasonic-combined electrolysis technology is used; a calcium hydroxide solution and a citric acid solution are used as electrolytes for grading treatment and flotation separation through the ultrasonic electrochemical flotation method, realizing effective removal of mercury element in coal. The method also has a certain effect on reducing sulfur and ash in coal, can effectively reduce sulfur, ash, and mercury emissions produced by coal burning before combustion, and provides a certain scientific basis for developing and implementing a cleaner coal technology. At the same time, it has the advantages of mild conditions, no need to use complex and expensive instruments and medicines, environmental protection, a short cycle, and simple operations.

21: 2024/09773. 22: 2024/12/18. 43: 2025/06/30
51: A61B
71: Shandong Medical College
72: LI, Xia, CHEN, Junmeng, LI, Yufei, LI, Wei, XU, Shuhua, LIU, Guoju, WANG, Hongwei, XU, Guiping, KONG, Ruixue, ZHOU, Xiao, XIN, Hua, CHEN, Rui, DU, Zekai
33: CN 31: 202311806508.6 32: 2023-12-26

54: HUMAN BIOLOGICAL RHYTHM MONITORING METHOD

00: -

The present invention provides a human biological rhythm monitoring method, including: acquiring physiological data of target users by various wearable sensors, wherein the physiological data include emotional signals, physical signals and intellectual signals; preprocessing the physiological data to obtain preprocessed data; inputting the preprocessed data into a trained biological rhythm prediction model to recognize an emotional rhythm pattern, a physical rhythm pattern and an intellectual rhythm pattern of the target users; assessing physical conditions and potential risks of the target users according to the emotional rhythm pattern, the physical rhythm pattern and the intellectual rhythm pattern monitored; and generating personalized life and health recommendations according to the physical conditions and the potential risks. By combining physiological sensors, data processing and machine learning algorithms, biological rhythm parameters of users can be monitored intelligently and accurately, potential health risks are recognized, and personalized life and health recommendations are provided.



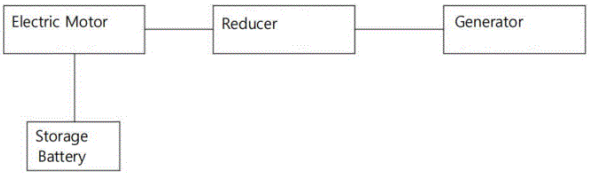
21: 2024/09774. 22: 2024/12/18. 43: 2025/06/30
51: H02K
71: Xuejun An
72: Xuejun An
33: CN 31: 202422771008X 32: 2024-11-14

54: AN AUTOMATIC GENERATOR

00: -

An automatic generator, comprises an electric motor, a reducer, a generator, and a storage battery; the electric motor is transmission-connected to the reducer, the reducer drives the generator to generate electricity, and the storage battery is electrically connected to the electric motor. The advantages of the invention are: the electric motor drives the reducer, the reducer drives the generator

to generate electricity, the generator charges the storage battery and outputs electricity at the same time, the storage battery's electricity provides the motor with the required power, and this cycle repeats. The automatic generator adopts an overall circulation system and can output electric energy for use. The energy wasted when the single generator is working is collected by the storage battery, saving energy.

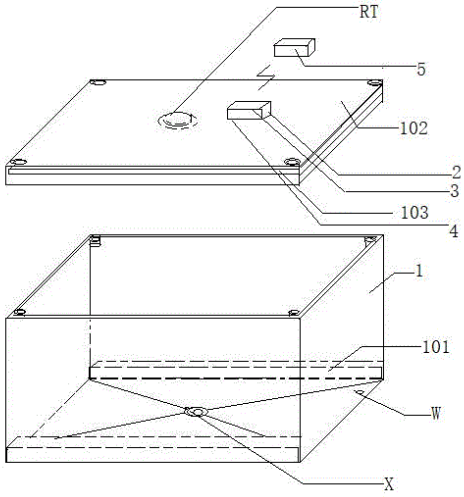


21: 2024/09776. 22: 2024/12/18. 43: 2025/06/30
51: H01M
71: XINYU UNIVERSITY
72: Ling Li, Taibin Huang, Tingting Zhu, Minhua Jiang, Chengyu Liu

54: NOVEL AUTOMOTIVE LITHIUM BATTERY PACK

00: -

The present invention relates to a novel automotive lithium battery pack, which belongs to the technical field of battery packs, comprising a lithium battery pack body, wherein the pack is also provided with a detection mechanism and a receiving mechanism; the detection mechanism comprises a leakage detection circuit, a deformation detection circuit, a temperature switch, a force sensitive resistor and leakage probes; the lower end of the lithium battery pack body is provided with supporting seats on four sides, a lithium battery is installed on the supporting seats, and the leakage probes are installed on the inner lower end of the lithium battery pack body; the force sensitive resistor is installed on the inner lower end of a sealing cover of the lithium battery pack body, a contact plate is installed on the lower end of a stress surface of the force sensitive resistor, and the temperature switch is installed on the inner side of the lithium battery pack body; the leakage detection circuit and the deformation detection circuit are installed in an element box and electrically connected. The present invention can monitor whether leakage or deformation occurs in a lithium battery, and can prompt relevant personnel wirelessly as soon as possible when leakage or deformation occurs in the lithium battery, thus reducing the expansion of a fault, and ensuring that electrical equipment can operate stably and reliably.



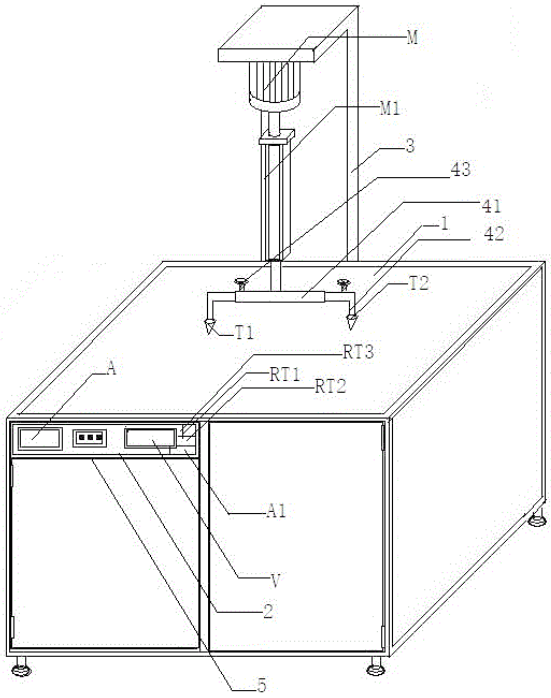
21: 2024/09777. 22: 2024/12/18. 43: 2025/06/30
51: G01R
71: XINYU UNIVERSITY
72: Ling Li, Taibin Huang, Zhiyu Yang, Tingting Zhu, Minhua Jiang, Chengyu Liu

54: DEVICE FOR DETECTING LITHIUM BATTERIES

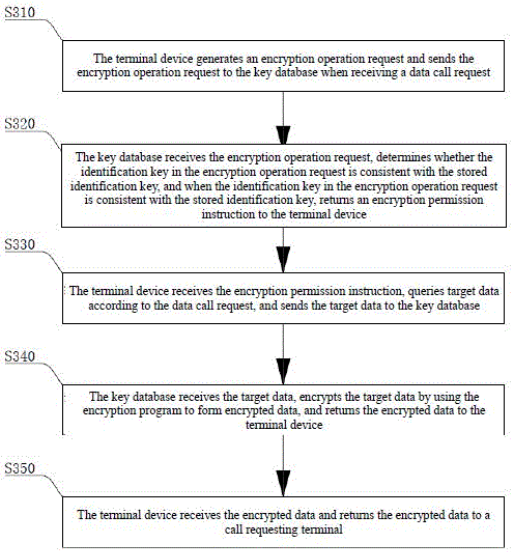
00: -

The present invention relates to a device for detecting lithium batteries, which belongs to the technical field of detection equipment, comprising a power module, a workbench, a motor reducing mechanism, an electric push rod, electrical loads, an ammeter, a voltmeter, a detection mechanism and a temperature detection circuit; the rear end of the workbench is provided with a support plate, the motor reducing mechanism is installed on the lower side of the upper end of the support plate, and the upper end of the electric push rod is installed on the lower end of the rotating shaft of the motor reducing mechanism; and the detection mechanism comprises a horizontal tube and detection heads and is installed on the lower end of the electric push rod, and the power module, the electrical loads, the ammeter, the voltmeter and the temperature detection circuit are installed in an element box and electrically connected. The novel device is more compact and convenient to use, and can conveniently detect the voltage, total output power and power supply stability functions of lithium batteries, adjust the power of the electrical loads as

required, and turn off the power supply of the electrical loads as soon as possible when the temperature of the lithium batteries is detected to exceed a threshold, obtaining the corresponding data, and reducing the probability of damage caused by long-term overload of the lithium batteries.

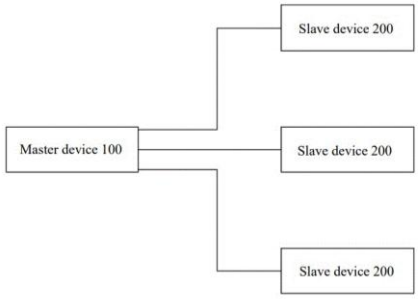


21: 2024/09779. 22: 2024/12/18. 43: 2025/06/30
51: H04L
71: GUANGDONG OPEN UNIVERSITY (GUANGDONG POLYTECHNIC INSTITUTE)
72: WANG, Dongxing, WANG, Weixing
54: ENCRYPTION AND RETRIEVAL METHOD FOR IOT, AND IOT SYSTEM
00: -
An encryption and retrieval method for an IoT includes: generating, by a terminal device, an encryption operation request and sending the same to a key database when receiving a data call request; determining, by the key database, whether an identification key in the encryption operation request is consistent with an identification key stored therein, and when the identification key in the encryption operation request is consistent with the stored identification key, returning an encryption permission instruction to the terminal device; querying, by the terminal device, target data according to the data call request, and sending the target data to the key database; encrypting, by the key database, the target data by using the encryption program to form encrypted data, and returning the encrypted data to the terminal device; and returning, by the terminal device, the encrypted data to a call requesting terminal device.



21: 2024/09780. 22: 2024/12/18. 43: 2025/06/30
51: H04L
71: GUANGDONG OPEN UNIVERSITY (GUANGDONG POLYTECHNIC INSTITUTE)
72: WANG, Dongxing
54: INTELLIGENT IOT CONTROL METHOD AND IOT SYSTEM
00: -
An intelligent IoT control method includes: establishing, by a master device and each slave device, a connection to each other; sending, by the master device, a signal limiting instruction and an identification instruction to each slave device, and disconnecting, by each slave device, from the master device after receiving the signal limiting instruction and the identification instruction; stopping, by each slave device, wireless monitoring and intermittently starting monitoring according to a start-stop time frequency; executing, by the master device when receiving a control trigger instruction, a first response operation, and broadcasting the wireless data on the specified band channel; and receiving, by the slave device, the linkage trigger instruction and the identification instruction, determining whether the received identification

instruction is the same as the identification instruction in the configuration phase, and if yes, executing a second response operation according to the linkage trigger instruction.



21: 2024/09785. 22: 2024/12/18. 43: 2025/06/26
51: A01G
71: Research Institute of Subtropical Forestry, Chinese Academy of Forestry
72: Sun Haijing

54: TISSUE CULTURE METHOD FOR QUERCUS NUTTALLII

00: -

A tissue culture method for Quercus nuttallii includes the following steps: 1) selection of explants; 2) disinfection of explants; 3) primary culture; 4) proliferation culture of adventitious buds; 5) strong seedling culture; 6) tooting culture; and 7) seedling hardening and transplanting. The method can better maintain the stress resistance and appreciation of a maternal parent, greatly shorten a seedling raising period, obtain rooted seedlings in 4 months, and improve a propagation coefficient of Quercus nuttallii. Compared with seed propagation, tissue culture can reduce the dependence on imported seeds and effectively reduce the cost of seedlings. Compared with a somatic embryogenesis method, the risk of maternal mutation is greatly reduced.

The following is a comparison of relevant parameters between the present invention and other methods.

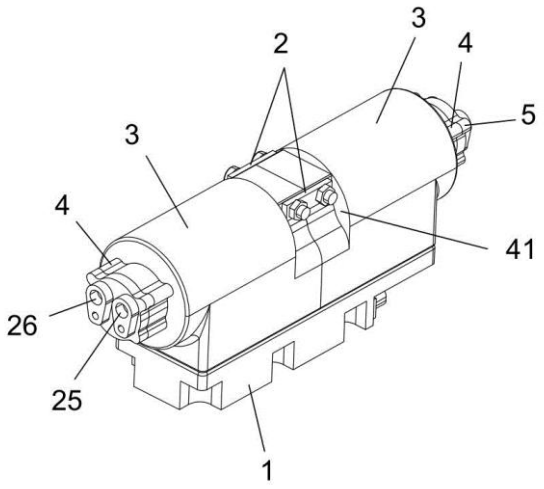
Culture method / Measuring parameter	Tissue culture (adventitious bud proliferation pathway)	Cutting propagation method	Seed seedling raising method
Adventitious bud proliferation rate	More than 95%	\	\
Seedling rate	More than 70%	10-20%	40-60%
Single plant cost	0.56 yuan	3.5 yuan	7 yuan
Seedling raising cycle	120 d	180 d	150 d

21: 2024/09786. 22: 2024/12/18. 43: 2025/06/26
51: F15B
71: Sichaun Aerospace Shiyuan Technology Co., Ltd.
72: Duan Shengqiu, Pu Yi, Mou Yijie, Jiang Yinlong, Song Sihao, Tian Nong, Hou Rong

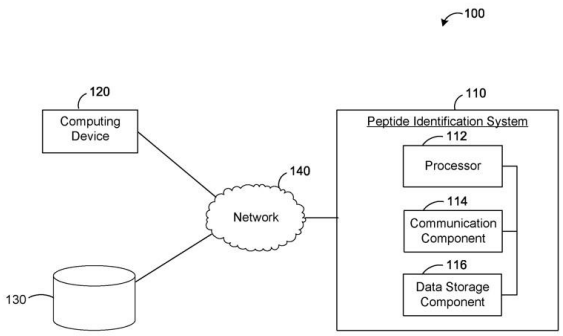
54: BIDIRECTIONAL COMBINED PUMP WITH HEAT DISSIPATION FUNCTION

00: -

The present invention provides a bidirectional combined pump with heat dissipation function, including motor housings and pump bodies. Sides of the two motor housings are fixedly connected through a connecting cover, and other sides are fixedly connected through connecting plates; end parts of the motor housings are hermetically and fixedly connected to ends of the pump bodies, and other ends of the pump bodies are hermetically and fixedly connected to pump covers; pump chambers are arranged in the pump bodies, gear assemblies are rotatably arranged in the pump chambers, the gear assemblies are fixedly connected to ends of output shafts, other ends of the output shafts pass through the pump bodies and are fixedly connected to rotating parts of stator-rotor assemblies, and fixed parts of the stator-rotor assemblies are fixedly arranged at inner walls of the motor housings; and first liquid chambers and second liquid chambers that cooperate with the gear assemblies are arranged in the pump chambers, the first liquid chambers and the second liquid chambers are respectively connected to interiors of the motor housings through pressure relief channels. The combined pump may not only rotate in both directions, but also has a better heat dissipation function. It may be used for a long time and occupies a small amount of space, meeting the requirements of compact equipment.

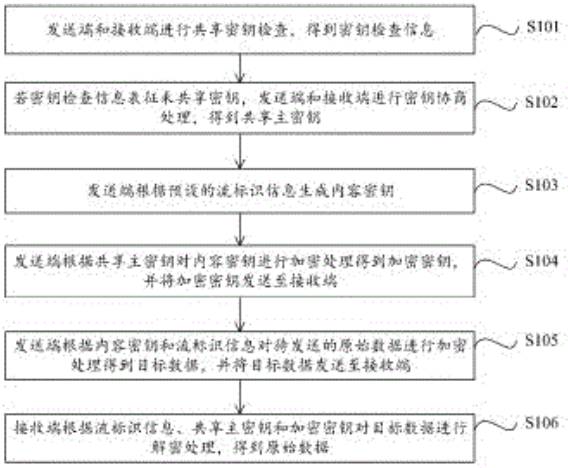


21: 2024/09788. 22: 2024/12/18. 43: 2025/06/30
51: G01N; G16B
71: YYZ PHARMATECH INC.
72: MARSHALL, John G., BOWDEN, Peter, DUFRESNE, Jaimie
33: US 31: 63/357,534 32: 2022-06-30
33: US 31: 63/402,157 32: 2022-08-30
54: SYSTEMS AND METHODS FOR IDENTIFYING PEPTIDES
00: -
Systems and methods for identifying a peptide for a query spectrum. The methods can involve receiving one or more parameters of a query spectrum; generating one or more candidate peptide sequences based on the one or more parameters of the query spectrum; generating a plurality of samples of the query spectrum; selecting at least one sample from the plurality of samples for comparison with the one or more candidate peptide sequences; determining a likelihood indicator for each of the one or more candidate peptide sequences based on a comparison with the at least one sample; applying a signal to noise filter to the one or more candidate peptide sequences based on the likelihood indicators for the candidate peptide sequences; and selecting at least one candidate peptide sequence as a proposed peptide sequence for the query spectrum based on the filtered candidate peptide sequences.



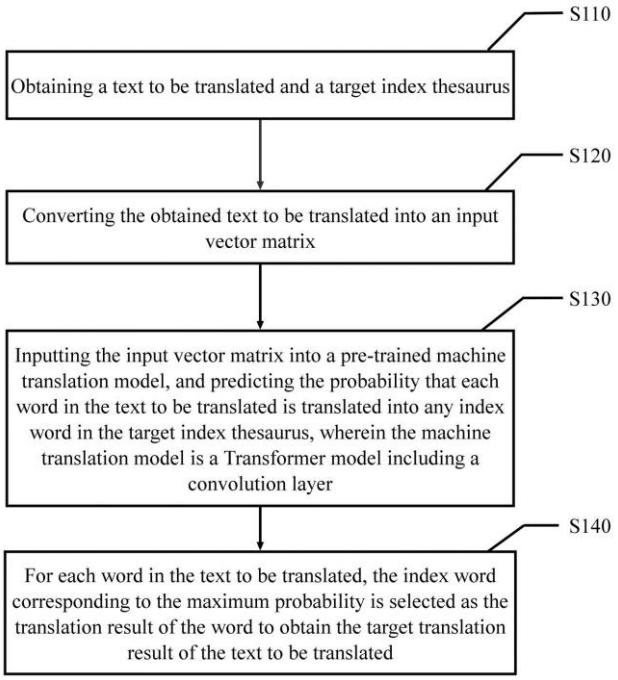
21: 2024/09810. 22: 2024/12/18. 43: 2025/06/30
51: H04L
71: SHENZHEN NATIONAL ENGINEERING LABORATORY OF DIGITAL TELEVISION CO., LTD.
72: YU, Xiaolong, LI, Xinguo, CHANG, Lin, XU, Linyu, WU, Yujie
33: CN 31: 202211239665.9 32: 2022-10-11
54: DATA TRANSMISSION METHOD AND APPARATUS, AND DEVICE AND STORAGE MEDIUM
00: -
The embodiments of the present application belong to the technical field of artificial intelligence. Provided are a data transmission method and apparatus, and a device and a storage medium. The method comprises: a sending end and a receiving end performing a shared-key check, so as to obtain key check information; if the key check information indicates that no key is shared, the sending end and the receiving end performing key negotiation processing, so as to obtain a shared main key; the sending end generating a content key according to preset stream identification information; the sending end performing encryption processing on the content key according to the shared main key, so as to obtain an encrypted key, and sending the encrypted key to the receiving end; the sending end performing, according to the content key and the stream identification information, encryption processing on original data to be sent, so as to obtain target data, and sending the target data to the receiving end; and the receiving end performing decryption processing on the target data according to the stream identification information, the shared main key and the encrypted key, so as to obtain the original data. By means of the embodiments of the present application, data of different links can be

protected in a differentiated manner, and the security of data transmission can be improved.



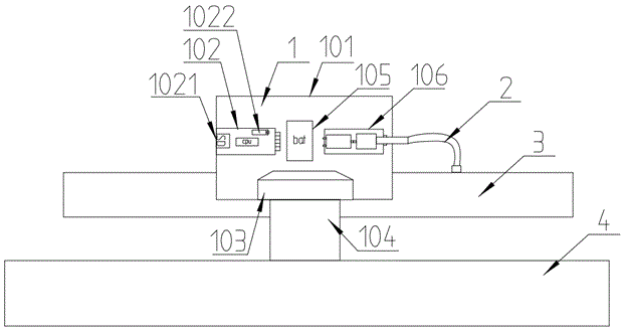
21: 2024/09829. 22: 2024/12/18. 43: 2025/07/01
51: A01K
71: INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES
72: YUE, Shan, ZHAO, Xiuhua, SUN, Jinyan, PENG, Fugang, ZHANG, Yuanliang
54: METHOD FOR IMPROVING FECUNDITY OF BREEDING GEESE
00: -
The present invention discloses a method for improving fecundity of breeding geese, specifically comprising the following steps: (1) raising mode; (2) variety selection; (3) breeding conditions; (4) reasonable mating; (5) feeding management; and (6) epidemic disease prevention and control. The present invention significantly improves the fecundity of the breeding geese, and can ensure that the breeding geese produce qualified breeding eggs with high fertilization rate and high hatching rate through multifactor intervention, thereby reducing the raising cost and improving the production benefits.

21: 2024/09830. 22: 2024/12/19. 43: 2025/07/14
51: G06F
71: Jiaxing Vocational & Technical College
72: HE Zhe
54: METHOD AND DEVICE FOR EFFICIENT REAL-TIME MACHINE TRANSLATION
00: -
The application provides a method and device for efficient real-time machine translation. The method includes the following steps: obtaining a text to be translated and a target index thesaurus, converting the text to be translated into an input vector matrix, then inputting the input vector matrix into a pre-trained machine translation model, and predicting the probability that each word in the text to be translated is translated into any index word in the target index thesaurus, wherein the machine translation model is a Transformer model including a convolution layer, and for each word in the text to be translated, selecting the index word corresponding to the maximum probability as the translation result of the word. In this way, the model parameters and calculation amount are reduced to a certain extent, and the performance of real-time machine translation is guaranteed, so that when real-time machine translation is carried out through the model of the application, the training is more convenient in the process of extracting features due to less parameter amount, and the speed is improved to a certain extent due to less calculation amount.

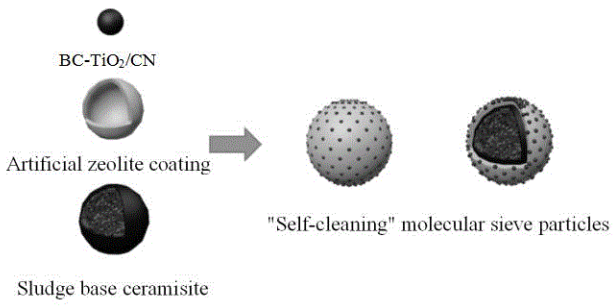


21: 2024/09831. 22: 2024/12/19. 43: 2025/07/01
51: E21B
71: Liaoning Technical University, CCTEG SHENYANG RESEARCH INSTITUTE
72: Haisheng QIU, Binbin WANG, Cheng XU, Hongrui ZHAO, Bei WANG, Yaolin CAO, Yongxing

NIE, Yanan PAN, Xiaowei ZHENG, Dongchao ZHANG, Zhongyu ZHENG, Hongli LI
33: CN 31: 202311767178.4 32: 2023-12-21
54: SINGLE-HOLE MONITORING DEVICE AND MONITORING SYSTEM FOR COAL MINE DRAINAGE BOREHOLE
00: -
The present disclosure claims a single-hole monitoring device and a monitoring system for coal mine drainage boreholes. The main body of the monitoring device is communicated with a fluid pipeline through a connecting pipe; the circuit board of the main body of the monitoring device is electrically connected with a battery and a multi-parameter sensor set, respectively, and the multi-parameter sensor set is communicated with the borehole drainage pipeline in a coal mine through the drainage pipeline connecting section. In the power generating component, the generator is electrically connected with a circuit board or a battery through a current output connector for power supply, an input shaft of the generator is fixedly connected with an output shaft of the fluid motor, an inlet port of the fluid motor is communicated with one end of the motorized fluid-carrying pipe, and both ends of the connecting pipe are respectively communicated with the fluid pipeline and the other end of the motorized fluid-carrying pipe. According to the present disclosure, kinetic energy is converted into electric energy through a power generation component/power generation unit by using a fluid pipeline in the coal mine to provide power supply guarantee for continuous operation of the monitoring device and the monitoring system, allowing the advantages of convenient installation, high safety, small volume, light weight and low cost in the coal mine.

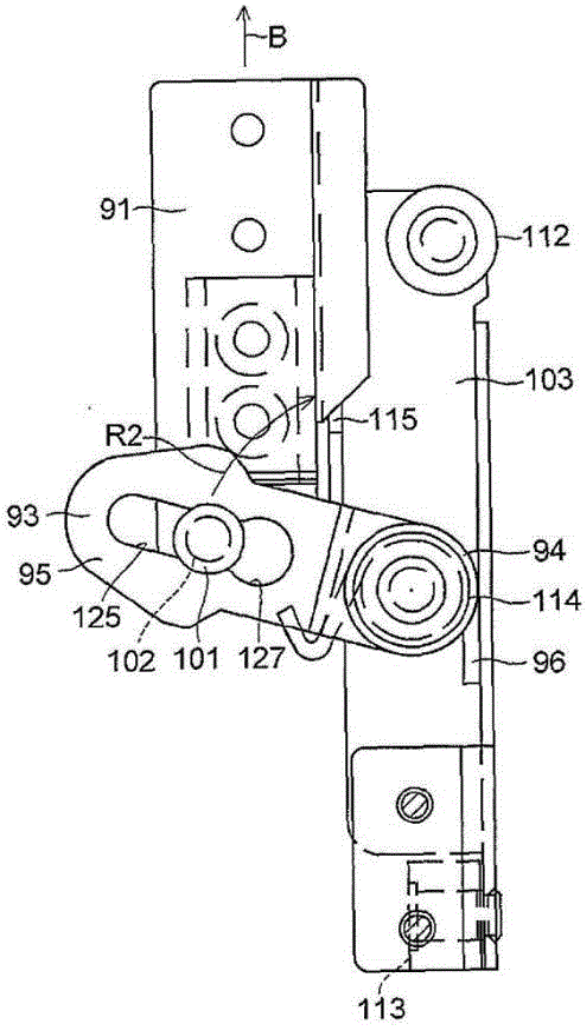


21: 2024/09832. 22: 2024/12/19. 43: 2025/07/14
51: B01J
71: Henan University of Urban Construction
72: GUO Xiang, ZHOU Tong, XIE Nana, LIU Kai, WANG Xiaotong, LI Tong, WANG Gongmao, WU Xuexue, WU Junfeng, LIU Biao
54: MOLECULAR SIEVE COMPOSITE MATERIAL WITH DUAL FUNCTION OF ADSORPTION AND PHOTOCATALYTIC DEGRADATION AND PREPARATION METHOD AND APPLICATION THEREOF
00: -
The invention discloses a molecular sieve composite material with dual functions of adsorption and photocatalytic degradation, a preparation method and application thereof, belonging to the technical field of photocatalysis. The preparation of the molecular sieve composite material comprises the following steps: the mixture of biochar, carbon nitride and titanium dioxide is calcined to obtain BC-TiO2/CN; the viscous mixture is obtained by mixing BC-TiO2/CN, alkaline zeolite, calcium hydroxide, bentonite and sodium silicate solution; the molecular sieve composite material is obtained by coating the viscous mixture on the surface of the ceramic particle and heat treatment. The invention proposes a "self-cleaning" molecular sieve technology, which combines the dual functions of adsorption and photocatalytic degradation, and can effectively remove organic pollutants such as antibiotics in water. The invention constructs an adsorption-degradation-regeneration type "self-cleaning" molecular sieve filler based on ceramic particle, zeolite and BC-TiO2/CN catalyst, and realizes effective removal and degradation of organic pollutants such as antibiotics.



21: 2024/09833. 22: 2024/12/19. 43: 2025/07/14
51: A47H
71: Jiaxing Vocational & Technical College
72: YANG Xuemei
54: CURTAIN CONTROL DEVICE

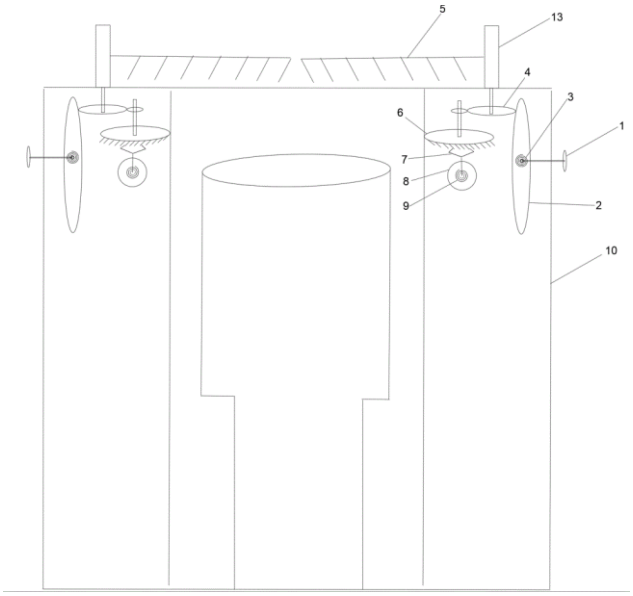
00: -
A curtain control device (1) includes a connecting stop mechanism (65) which causes one end (61) of a chain (63) caused by a walking mechanism (64) to stop elastomically towards the walking below that exceeds a specified position, a pin (102) having an enlarged head (101) is formed on a traveling member (91) connecting a stopping mechanism (65), A long hole (125) is formed on a rotating arm member (95) connecting a stop mechanism (65) to the pin (102) for the purpose of connecting the rotating arm member (95) to the walking member (91) in a manner that is free to rotate and free to move directly. An enlarged hole part (127) is formed on the end (126) of a long hole (125) on the side of the other end (94) of the rotating arm member (95) and is capable of inserting and removing an enlarged head (101) of the pin (102).



21: 2024/09834. 22: 2024/12/19. 43: 2025/07/14
51: E21B
71: University of Science and Technology Beijing, Middling coal Mining Research Institute Co., Ltd, North China Institute of Science and Technology, China University of Mining & Technology,Beijing, Jiangsu Hengyichuang Intelligent Technology Co., Ltd., Zhengzhou Ningke Mine Engineering Co., Ltd.
72: CHEN Haoyi, WANG Hongbing, WANG Yang, CHENG Zhiheng, JU Luchao, GUO Kai, CHEN Liang, YU Hongyang, ZHANG Zherui, WANG Peng, KANG Ning, LIU Ruiyang, GUO Rutao, LIU Jiaqi, HE Liusheng, HE Wanshun

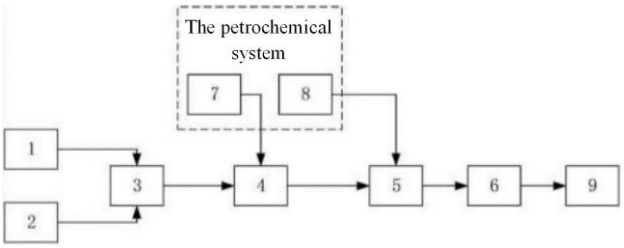
54: SELF-CLEANING DEVICE OF BOREHOLE OBSERVATION INSTRUMENT WITH ADJUSTING FUNCTION

00: -
The invention discloses a self-cleaning device of a borehole observation instrument with adjusting function, belongs to the technical field of mine borehole observation instrument, and aims to provide a protective cover for a peep probe, and a small wiper can be arranged at the protective cover for automatic cleaning to prevent the probe from being attached by muddy substances, thus affecting the imaging effect and the like. The main device includes an observation instrument, a protective shell, a clockwork box, an escapement mechanism, a transmission wheel and a miniature wiper. The protective shell is sleeved on the observation instrument, and the protective shell is a hollow device; the clockwork box is fixed inside the protective shell, and includes a clockwork shaft, a clockwork and a clockwork wheel; one section of the transmission wheel is connected with the clockwork box wheel, and the other side is connected with the escapement mechanism, where the transmission wheel includes a gear and a transmission shaft, and the escapement mechanism includes an escapement fork, an escapement wheel and a balance wheel; the miniature wiper is connected with that transmission shaft of the transmission wheel. According to the invention, the lens can be protected, and the miniature wiper is arranged at the protective cover, so that the dirt on the observation instrument can be removed, and the imaging of the observation instrument is ensured to be clear.



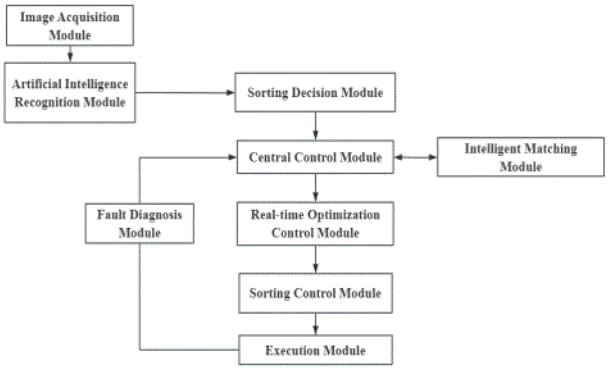
21: 2024/09835. 22: 2024/12/19. 43: 2025/07/14
51: A21D
71: INSTITUTE OF MEDICINAL PLANT RESEARCH, YUNNAN ACADEMY OF AGRICULTURAL SCIENCES, DIANPIN XIANGYANG FOOD PROCESSING AND OPERATIONS DEPARTMENT, PANLONG DISTRICT, KUNMING CITY
72: NIE Kangzhuo, CHEN Ruike, SHEN Hui, LI Linyu, YANG Yan, DONG Sihan, LI Rongfu
54: A POLYGONATUM KINGIANUM RAW PULP BISCUIT AND A PREPARATION METHOD THEREOF
00: -
The invention belongs to the technical field of biscuit food and its processing technology, and more specifically relates to a Polygonatum kingianum raw pulp biscuit and a preparation method thereof. The Polygonatum kingianum raw pulp biscuit includes the following raw materials: 70-100 parts of butter, 100-120 parts of low-gluten flour, 20-30 parts of whole egg liquid, 20-30 parts of Polygonatum kingianum raw pulp, 1-2 parts of Momordica grosvenori glycoside, 0-0.3 part of sodium bicarbonate and 0-0.2 part of edible salt, and a preparation method of the Polygonatum kingianum raw pulp biscuit, which includes the following steps: mixing butter, Polygonatum kingianum raw pulp and Momordica grosvenori glycoside, uniformly stirring until it is completely liquid, then adding low-gluten flour, uniformly stirring, adding the remaining raw materials, and kneading into smooth dough; the dough is shaped, sliced, baked in a preheated oven, and the Polygonatum kingianum raw pulp biscuit is obtained after baking. The Polygonatum kingianum raw pulp biscuit of the invention has simple preparation process, rich medicinal fragrance, efficacy, sugar control and health care, is suitable for eating by a large number of people, and is beneficial to human health.

21: 2024/09836. 22: 2024/12/19. 43: 2025/07/14
51: H02J
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: PANG Kaige, NIU Zhehui, PANG Binbin, DONG Yanfei, LIU Xiaofang
54: SYSTEM FOR POWER GRID PEAK REGULATION
00: -
The invention relates to the composite field of electric power and chemical industry, in particular to a power grid peak regulation system. According to the invention, the hydrogen generated by the petrochemical system is supplemented into the power station, meanwhile, the wastewater of the petrochemical system is treated and supplied to the electrolytic water device, and finally, the power generated by the power station is integrated into the power grid. The invention can solve the problems of insufficient and unstable hydrogen quantity when the “abandon wind, abandon light and limit electricity” of wind power and photovoltaic power generation are used as electrolytic water to generate hydrogen and then generate electricity by hydrogen. At the same time, the traditional petrochemical process is optimized to maximize the use of hydrogen generated in the petrochemical production process and the use of wastewater generated in the petrochemical production process to achieve chemical, electrical and thermal co-production, energy saving and consumption reduction, green environmental protection.



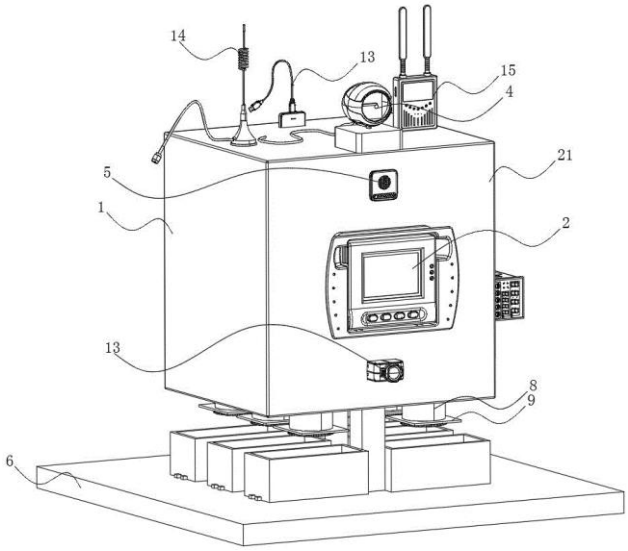
21: 2024/09837. 22: 2024/12/19. 43: 2025/07/01
51: C14C
71: Zhucheng Beibeile Food Co., Ltd.
72: Xueni Xiang, Xuechao Liu
54: RESIDUE-FREE FOOD-GRADE LIVESTOCK PRODUCT DEPILATORY AND PREPARATION METHOD THEREOF
00: -
A residue-free food-grade livestock product depilatory and a preparation method thereof, wherein depilatory comprises the following raw materials in parts by weight: 40 parts to 60 parts of paraffin wax, 30 parts to 50 parts of micro-crystalline paraffin wax, 5 parts to 20 parts of polyethylene wax, 2 parts to 8 parts of malec anhydride, 0.2 part to 1 part of calcium stearate, 2 parts to 6 parts of calcium carbonate, and 0.2 part to 1 part of di-tert-butyl peroxide, and the preparation method thereof. The modified paraffin wax has good adhesion and toughness, which can effectively remove hair on the surface of livestock products and improve hair removal efficiency; further, no harmful chemicals are needed during the preparation process, reducing harm to the environment and operators; meanwhile, the raw materials are easily available and the preparation process is simple. The residue-free food-grade livestock product depilatory provided by the invention has the advantages such as no residue, high efficiency, environmental-friendly, safety, which is suitable for depilatory treatment of various livestock products.

21: 2024/09838. 22: 2024/12/19. 43: 2025/07/01
51: B07C
71: Chen Xu
72: Chen Xu
54: LOGISTICS PACKAGE SORTING SYSTEM BASED ON ARTIFICIAL INTELLIGENCE
00: -
A logistics package sorting system based on artificial intelligence, comprising: an image acquisition module is used to capture images of packages on the conveyor belt in real time; the sorting decision module generates the optimal sorting path and sorting action based on the package identity information identified by the artificial intelligence recognition module; a central control module is used to receive and process the working information of each module; a real-time optimization control module is used to dynamically adjust the sorting path and sorting action according to the real-time data; a sorting control module receives instructions from the real-time optimization control module to control the actions of an execution module; the execution module achieves automated sorting; the fault diagnosis module monitors the operation status of the system in real time; the intelligent matching module is used to perform sorting and dynamic adjustment on the fault/abnormal areas. By integrating advanced technologies such as image recognition, machine learning, and intelligent scheduling, automated, efficient, and precise sorting of logistics packages has been achieved; this system not only improves logistics efficiency and reduces labor costs, but also reduces human errors, and has broad application prospects and market value.



21: 2024/09839. 22: 2024/12/19. 43: 2025/07/01
51: A61J
71: Anhui University of Chinese Medicine, Beijing Anding Hospital Affiliated to Capital Medical University Wuhu Hospital
72: Li Wu, Weiting Liu, Sunjuan Dong, Yanling Zhou, Chi Wang
54: VISUALIZED INTELLIGENT VOICE PILLBOX
00: -
The present invention relates to the technical field of voice-enabled pillboxes, specifically to a visualized

intelligent voice pillbox, which includes: a box body, wherein a central controller is fixedly installed on one side of the box body, a timer is fixedly installed on the other side of the box body, a camera is fixedly installed on the top of the box body, a voice module is arranged below the camera, the bottom of the box body is fixedly connected to a pillbox rack, a pill-dispensing box is slidably mounted on the upper surface of the pillbox rack, a medication storage cylinder is arranged on the upper side of the pill-dispensing box, the upper side of the medication storage cylinder is threadably connected to the box body, the lower side of the medication storage cylinder is fixedly connected to a limiting plate, and one side of the limiting plate is rotatably installed with an opening and closing flap. When the timer reaches the preset medication time, a medication reminder can be issued through the voice module to prompt the user to take the medication. Meanwhile, the camera enables remote personnel to supervise the patient administering the medication, ensuring that the medication is evenly placed in the storage cylinder. The opening and closing of the flap is indirectly controlled through the central processor, thereby controlling the dispensing of medication from the storage cylinder and effectively avoiding issues of missed, insufficient, or excessive medication intake by the patient.

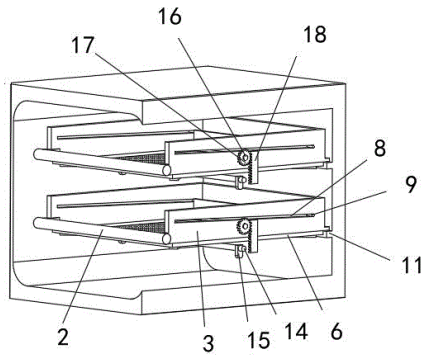


21: 2024/09840. 22: 2024/12/19. 43: 2025/07/01
51: A23N
71: Xizang Academy of Agriculture and Animal Husbandry Sciences
72: Chao Mi, Jinxiong Wang

54: A RAPID-DRYING EQUIPMENT FOR RAPESEED STALKS AND A PRODUCTION PROCESS FOR RAPESEED STALKS PRODUCTS

00: -

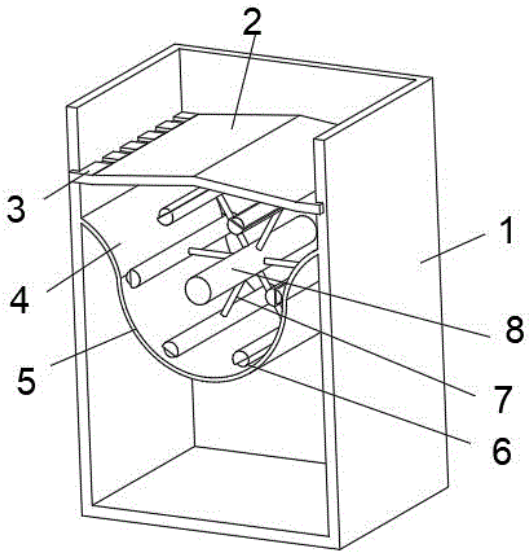
The invention relates to the technical field of rapeseed stalks rapid drying equipment, in particular to a rapid-drying equipment for rapeseed stalks and a production process for rapeseed stalks products, including: A dryer, the internal front end of the dryer is provided with two sets of hinged shafts, the two sets of hinged shafts are respectively arranged on the top and bottom end of the dryer, and the inner side of the hinged shaft is connected with a connecting frame; The middle of one side of the connecting frame is provided with a tooth plate; The beneficial effects are: The invention provides a rapid-drying equipment and a production process of rapeseed stalks products. Firstly, the rapeseed stalks is evenly spread on the screen set at the bottom of the connecting frame, and then the door of the box is closed. The dryer begins to heat the rapeseed stalks. The hammer block is opened to hammer the connecting plate at the bottom of the connecting frame, so that the connecting plate drives the screen to squeeze and expand the expansion slot, so that the screen will shake, and the rapeseed stalks pasted on the screen will be removed by vibration.



21: 2024/09841. 22: 2024/12/19. 43: 2025/07/01
51: B01D
71: The Second Affiliated Hospital of Anhui University of Chinese Medicine
72: Zhensheng Liang, Xiaoqing Liu

54: A METHOD FOR EXTRACTING AND SEPARATING EFFECTIVE COMPONENTS OF POLYGONUM MULTIFLORUM AND A DEVICE THEREOF

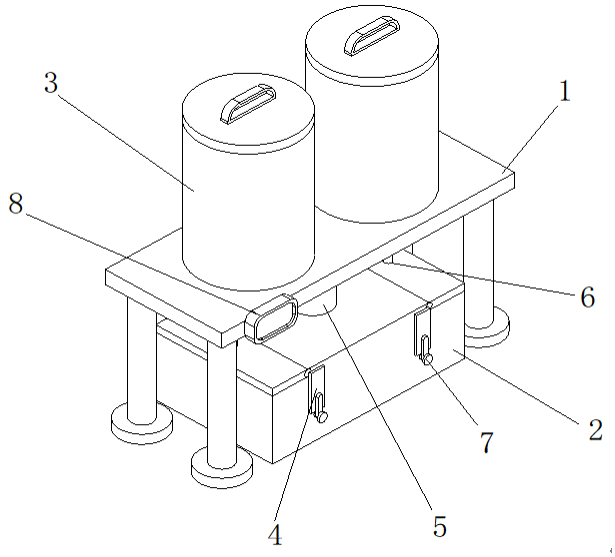
00: -
The invention relates to the technical field of extraction and separation, in particular to a method for extracting and separating effective components of polygonum multiflorum and a device thereof. The ground Chinese herbal medicine is placed on the surface of the inclined plate, and the piston rod is driven to expand and expand by a cylinder. The piston rod is connected to the telescopic plate by a curved rod, and the telescopic plate drives the expansion rod to expand and move, and the expansion rod is inserted inside the inclined plate. The surface of the telescopic rod is provided with a rubber ring, and the inner part of the inclined plate is provided with a rubber ring. During the process of the telescopic rod expansion, the rubber rings collide with each other, causing the inclined plate to vibrate, and the Chinese medicine on the surface of the inclined plate to fall to the surface of the horizontal plate; The beneficial effects are as follows: When the telescopic plate of the invention moves reciprocating, the moving rod is pushed to move, and the moving rod is pulled back to the initial stage by the spring, and the moving rod drives the baffle plate to move in the channel, so that the Chinese medicine falls from the channel, and when the curved plate is no longer held at the end of the force rod, the channel is closed, so that a small amount of Chinese medicine falls to the surface of the filter plate.



21: 2024/09842. 22: 2024/12/19. 43: 2025/06/26
51: C09D
71: Guangdong Carpoly Science and Technology Material Co., Ltd.
72: WANG, Aolei, HU, Hengzhi, PENG, Haoming, CAI, Zhengwei
33: CN 31: 2024113368814 32: 2024-09-24
54: NET ODOR LATEX PAINT WITH ULTRA-LOW VOLATILE ORGANIC COMPUNDS (VOC) AND SEMI-VOLATILE ORGANIC COMPOUNDS (SVOC) EMISSIONS AND A PREPARATION METHOD THEREOF
00: -
The present invention relates to the technical field of latex paints, and provides a net odor latex paint with ultra-low volatile organic compounds (VOC) and semi-volatile organic compounds (SVOC) emissions and a preparation method thereof. The components of the net odor latex paint provided by the present invention include: 30-40% of water-based acrylic emulsion, 0.6-1.0% of surfactant, 0.4-1.0% of hydroxyethyl cellulose, 15-30% of pigment, 10-20% of filler, 1.03-3.1% of functional additive, and the balance of water. The latex paint provided by the present invention has extremely low odor and ultra-low SVOC and VOC emission levels, and all aspects of performance meet the requirements of topcoat superior products. The coating film has excellent physical properties and wide applicability, which conforms to the country's environmental protection policies and the environmental protection needs of market customers, and has broad prospects.

21: 2024/09843. 22: 2024/12/19. 43: 2025/06/26
51: A23K
71: Institute of Tropical and Subtropical Economic Crops, Yunnan Academy of Agricultural Sciences
72: SHEN, Shaobin, LOU, Yuqiang, YAN, Wei, LIU, Qian, LUO, Xin, JIANG, Tailing, SHEN, Zhengsong, GENG, Sha, ZHOU, Yingchun, DUAN, Chunfang, CHE, Bin, BAI, Lina, XIONG, Xiankun
33: CN 31: 202410261906.2 32: 2024-03-07
54: PROCESSING AND PREPARATION METHOD FOR SILAGE OF AMOMUM TSAOKO STEMS AND LEAVES
00: -
The present invention provides a processing and preparation method for silage of Amomum tsaoko stems and leaves, including the technical parameter control of links including the selection of Amomum tsaoko stem and leaf raw materials, drying of the raw materials, crushing treatment technology, selection

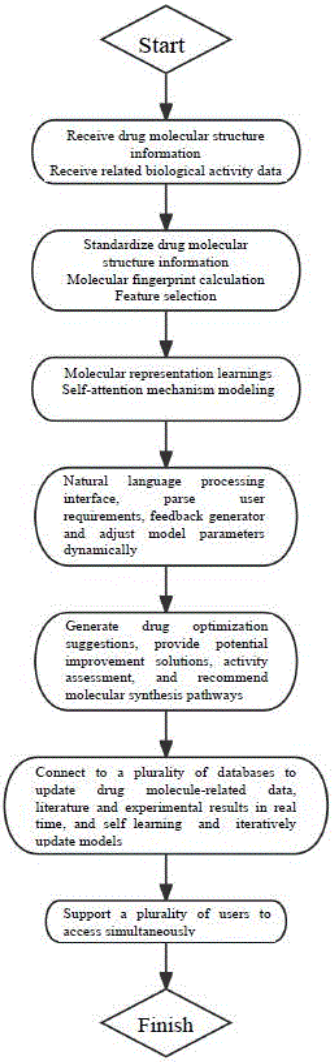
and proportioning of additives, parameter control of key technical links in silage baling and wrapping, and storage technology, effectively solving the problems of mildew and contamination in the production process of silage of Amomum tsaoko stems and leaves. The comprehensive utilization of silage of Amomum tsaoko stems and leaves has reduced the environmental pollution caused by random discarding and burning of Amomum tsaoko straws, protecting the ecological environment. It has also increased the added value of Amomum tsaoko, opened up new ways for the shortage of feed in winter and spring, and promoted the healthy and steady development of the Amomum tsaoko industry and animal husbandry.



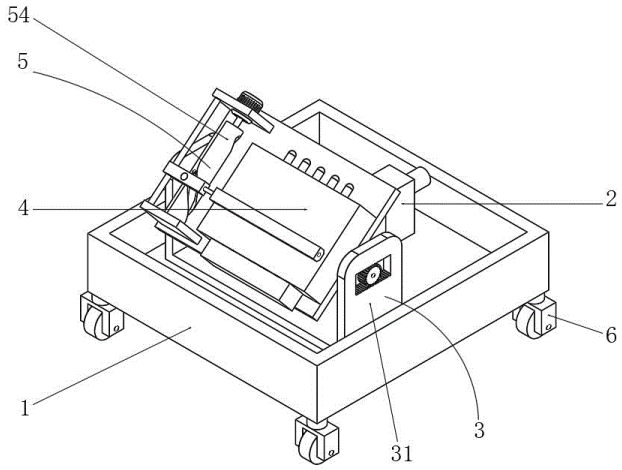
21: 2024/09844. 22: 2024/12/13. 43: 2025/06/26
51: A61B
71: Yueyang Vocational Technical College
72: Liu Fei
54: DISPLAY DEVICE FOR HUMAN ANATOMY IMMERSION SPECIMENS
00: -
The present application provides a display device for human anatomy immersion specimens, falling within the technical field of medical inspection. The present application includes a display stand, a top of the display stand is fixedly connected to mutually symmetrical transparent display buckets, and a bottom of the display stand is arranged with a filtering liquid storage tank. A middle of a top of the filtering liquid storage tank is fixedly connected to a liquid pumping piece. when a human specimen is stored in the transparent display bucket, an immersion liquid at an interior of the transparent display bucket may be discharged into the filtering liquid storage tank through a liquid guiding piece, and the liquid pumping piece may be operated to make internal members extract the immersion liquid in the filtering liquid storage tank, and pumped to the transparent display bucket to circulate the immersion liquid. In the circulation process, human tissue debris in the immersion liquid may be filtered through the filtering piece, thereby improving purity of the immersion liquid, prolonging usage time of the immersion liquid, and facilitating storage of the human specimen.

21: 2024/09845. 22: 2024/12/13. 43: 2025/06/26
51: G06F
71: Zunyi Normal University, ZNU
72: Wang Qian, Ouyang Aijia, Liu Yanmin, Huang Chuanteng, Jin Xing
54: INTERACTIVE LEARNING SYSTEM FOR DRUG MOLECULES BASED ON LARGE LANGUAGE MODEL
00: -
The present invention provides an anti-extravasation chemotherapy medicine delivery device for clinical use which includes a curved elastic fixing plate. An inner side of the curved elastic fixing plate is fixedly mounted with a fixing seat close to one side of a hand, one end of the fixing seat is disposed with a positioning slot, and a syringe for performing injection is arranged on an inner side of the positioning slot. The syringe includes a syringe body. In the present invention, by means of a positioning and fixing assembly, a needle is capable of being kept parallel inserted into a patient’s body, the extravasation of medicine liquid is avoided, the transportation of the medicine liquid is convenient, a situation where the needle is obliquely inserted into the patient's body, and the subsequent downward bending of the patient's hand causes the needle and the socket where the needle is inserted into the patient's body to cause tearing is capable of being avoided. Meanwhile, through the adjustment of a top positioning curved plate and a bottom positioning curved plate, the syringe body is capable of being conveniently replaced, and the operation time is

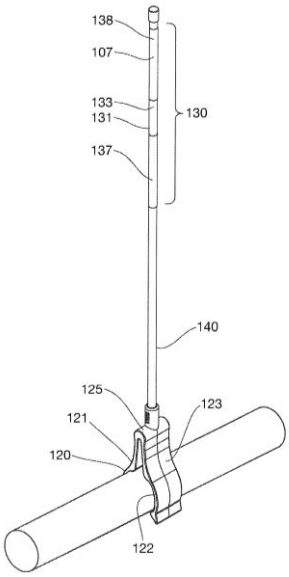
capable of being saved and the treatment efficiency is capable of being improved.



21: 2024/09846. 22: 2024/12/13. 43: 2025/06/26
51: G08C
71: Xinyu University
72: Wu Shilan, Jiang Chunlin, Du Qiulai, Liu Jiamin
54: STAR DATA ACQUISITION DEVICE BASED ON BROADBAND WIRELESS COMMUNICATION
00: -
The invention discloses a star data acquisition device based on broadband wireless communication, which relates to the technical field of communication.the angle adjusting mechanism comprises a U-shaped seat fixedly connected to the inner bottom wall of a protective groove and an electric telescopic rod fixedly connected to the inner wall of a fixed seat, The inner wall of the transmission plate is rotatably connected with the transmission shaft, the surface of the transmission shaft is respectively and fixedly connected with the two gears and the connecting frame, and the top of the connecting frame is fixedly connected with the connecting plate. Flexible adjustment to obtain wider monitoring area coverage, reduce monitoring blind areas, and improve the integrity and accuracy of data collection.



21: 2024/09861. 22: 2024/12/19. 43: 2025/07/01
51: E21F; H01B; H02G
71: AQUIRIAN TECHNOLOGY PTY LTD
72: WRIGHT, Jonathan, PATCHING, Gregory
33: AU 31: 2022901809 32: 2022-06-29
54: APPARATUS FOR IDENTIFYING A CABLE ON A MINE SITE
00: -
The invention provides an apparatus for assisting in identifying the location of power transmission cables on a mite site that are used for supplying power to pumps, shovels, draglines, blasthole drills and other powered machines and apparatus on a mine site. The apparatus includes a connection device for connection to a cable and a signal portion including a reflective display medium. An elongated member extends between the connection device and the signal portion for spacing apart the signal portion from the cable.



21: 2024/09862. 22: 2024/12/19. 43: 2025/07/01
51: E02F; E21B; G01N; G08B
71: JOY GLOBAL UNDERGROUND MINING LLC
72: HOGAN, Paul
33: US 31: 63/352,124 32: 2022-06-14
33: US 31: 63/425,595 32: 2022-11-15
54: WEAR INDICATOR
00: -
A wear indicator is supported on a wear surface of a machine component. The wear indicator includes a first material thickness indicator having a first thickness, a second material thickness indicator positioned adjacent the first material thickness indicator and having a second thickness that is less than the first thickness, and a third material thickness indicator positioned adjacent the first material thickness indicator and the second material thickness indicator and having a third thickness that is less than the second thickness. The wear indicator is configured to visually indicate a material thickness of the wear deck via the first, second, and third material thickness indicators.

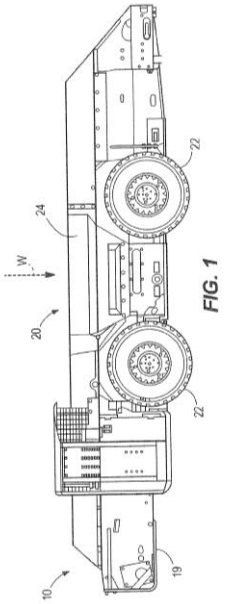
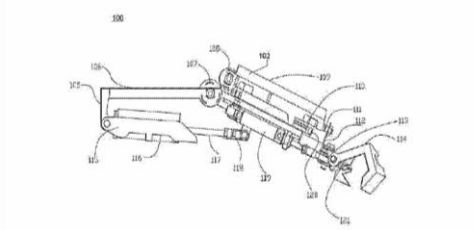


FIG. 1

21: 2024/09873. 22: 2024/12/19. 43: 2025/07/01
51: B25J
71: Genrobotic Innovations Private Limited
72: GOVIND MK, Vimal, P, Jaleesh, K, Sujodh, NP, Nikhil
33: IN 31: 202241032603 32: 2022-06-07
54: ROBOTIC ARM WITH A SLIDING ACTUATOR AND AN END EFFECTOR ACTUATOR
00: -
A robotic arm for material handling application is provided herein. The robotic arm includes an actuation assembly configured for moving the robotic arm and an end effector connected to the robotic arm in a plurality of directions for accomplishing at least one task. The robotic arm further includes a data capturing means coupled to the arm for capturing data to be processed by a processor connected to a controller of the robotic arm wherein the controller is encoded with instructions enabling the controller to operate the robotic arm depending on the task to be accomplished and the captured data. The robotic arm further includes a rotating means configured to rotate the robotic arm for accomplishing the tasks. The end effector includes a first portion and a second portion operating in conjunction to each other depending on the task to be accomplished.

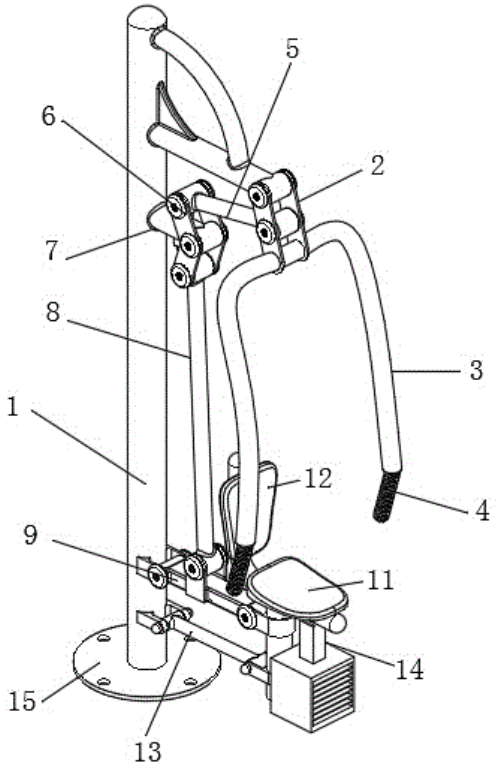


21: 2024/09901. 22: 2024/12/20. 43: 2025/07/02
51: A63B
71: Shandong University of Finance and Economics
72: Fuling Han

54: STAMINA IMPROVING DEVICE FOR SPORTS TRAINING

00: -

The present invention belongs to the technical field of stamina improvement, and particularly discloses a stamina improving device for sports training. The stamina improving device for sports training includes a stand column and a flange plate fixed to the stand column. A rotating member is rotationally connected to the stand column. A lift rod is fixedly connected to one end of the rotating member. A grip is fixedly connected to one end of the lift rod. A connecting rod is rotationally connected to a middle portion of the rotating member. A special-shaped member is rotationally connected to one end of the connecting rod. A lifting rod is rotationally connected to a bottom of the special-shaped member. A first balance bar is rotationally connected to a bottom of the lifting rod. A support is rotationally connected to one end of the first balance bar. The stamina improving device integrates various training modes. All components are linked for overall exercises of muscle groups of upper limbs and lower limbs, so that the physical strength and stamina are effectively improved. A balance weight can be adjusted to meet different training demands. The stamina improving device is high in stability and good in safety, can simulate an actual sports scene, and helps a trainer improve the stamina level scientifically and efficiently.



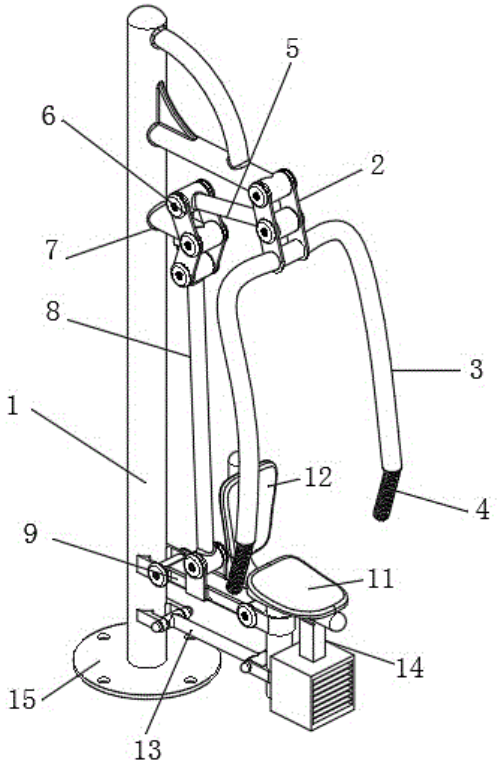
21: 2024/09902. 22: 2024/12/20. 43: 2025/07/02
51: A63B
71: Shandong University of Finance and Economics
72: Fuling Han

54: LEG STRETCHING DEVICE FOR SPORTS TRAINING

00: -

The present invention belongs to the technical field of stretching devices, and particularly discloses a leg stretching device for sports training. The leg stretching device for sports training includes a training frame, where a seat cushion and a backrest are fixedly mounted on the training frame, a bracket is fixedly mounted on the training frame, a turnplate is rotationally connected to the bracket, the turnplate penetrates through the bracket through a shaft and is fixedly provided with a connecting rod, a push rod is fixedly mounted at one end of the connecting rod, the push rod is located in front of a human chest and is manually pushed to shake, and stretching equipment is fixedly mounted at a front end of the training frame; and the stretching equipment includes an outer cover fixedly mounted with the training frame, and a driving motor is mounted in the outer cover. The leg stretching device for sports training provided by the present invention is reasonable in structural design. All components work

cooperatively, so that the leg stretching device for sports training is high in stability and comfortable to operate. By combining manual training with automatic training, the leg stretching device for sports training can meet different demands, is high in adjustability and suitable for various users, and can effectively exercise legs and waist and abdominal muscles to improve the flexibility and strength, so as to reduce the sport injury risk.

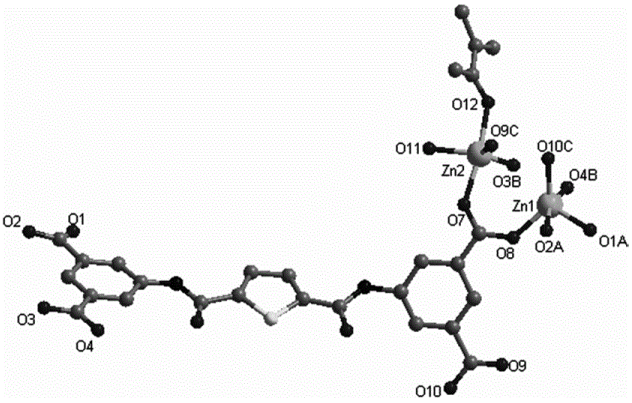


21: 2024/09903. 22: 2024/12/20. 43: 2025/07/14
51: C08G
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: ZHAO Zhenxin, LU Bingxue, HAN Ershuai, LI Jindian, WANG Zongtao, CHEN Wenzhuo, LIU Yi, WANG Zehao, ZHAO Qian, YUAN Chuanbo

54: METAL-ORGANIC FRAMEWORK MOF-ZN FLUORESCENT SENSOR MATERIAL AND PREPARATION METHOD THEREOF

00: -

The invention discloses a metal-organic framework MOF-Zn fluorescent sensor material and a preparation method thereof, where the chemical formula of the metal-organic framework MOF-Zn fluorescent sensor material is [Zn2(L)4(DMSO)(H2O)]; L is obtained by losing four hydrogen atoms in the ligand (H4L) of isophthalic acid modified by amide bond; DMSO is dimethyl sulfoxide; H2O is a water molecule, and its structure is as follows: its smallest asymmetric unit includes two crystallographically independent Zn2+ ions, a completely deprotonated ligand L, a coordinated DMSO molecule and a water molecule. The porosity of MOF-Zn fluorescent sensor material with metal-organic framework is 53.5%. The fluorescence test shows that the material has strong selective recognition ability for Fe3+ ions, and can be used as a fluorescence sensor material for detecting Fe3+ ions.



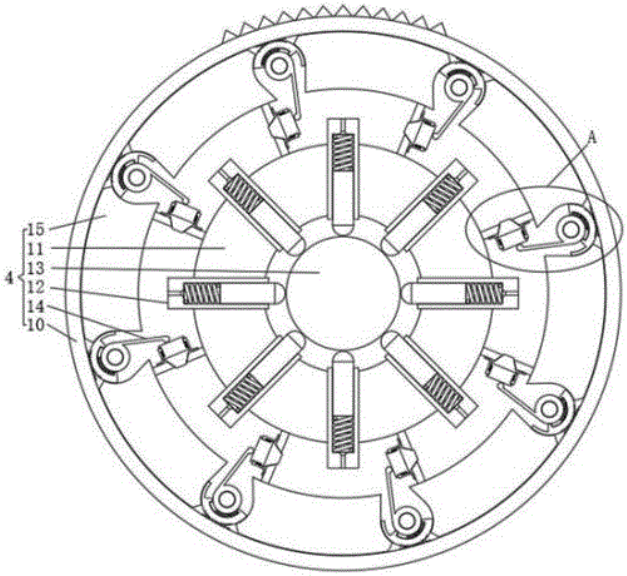
21: 2024/09904. 22: 2024/12/20. 43: 2025/07/14
51: G06Q
71: Jiaxing Vocational & Technical College
72: CHEN Yuyi

54: POWER PLANT OF NEW ENERGY VEHICLE WITH HIGH-EFFICIENCY SHOCK ABSORPTION

00: -

The invention relates to the technical field of new energy vehicles, in particular to a power device of a new energy vehicle with high-efficiency shock absorption, which comprises a power motor and a supporting frame, wherein the supporting frame is fixedly sleeved outside the power device, and a plurality of evenly distributed control blocks are arranged on the supporting frame; the control blocks are partially fixedly embedded in the supporting frame; a buffer device and a worm are arranged in the control blocks; one side of the buffer device is drivingly connected with the worm; one end of the worm extends outside the power motor; the buff device comprises a control re piece, an inner cylinder, a pressure component, an inner circular plate, a control unit and an arc plate. that structure and design of the invention realize the effect that the

buffer device efficiently absorbs the vibration energy on the control block, and the vibration impact on the control block is offset by the delayed shaking of the inner circular plate; in addition, the vibration frequency in the buffer device can be changed by rotating the worm, so as to ensure that the control block efficiently absorbs the vibration energy on the supporting frame and ensure the working stability of the automobile power plant.

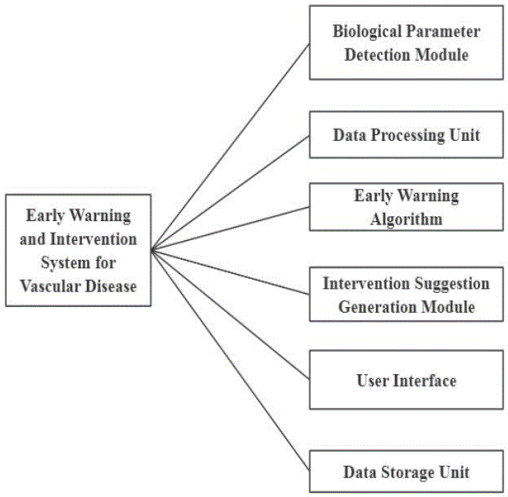


21: 2024/09905. 22: 2024/12/20. 43: 2025/07/02
51: G06F
71: Dongguan Songshanhu Central Hospital
72: Liqiu Yan, Caimei Yao, Youcheng Wang, Sini Wang, Yumeng Lei, Huanting Liu, Shicheng Li

54: EARLY WARNING AND INTERVENTION SYSTEM FOR VASCULAR DISEASE

00: -

An early warning and intervention system for vascular disease, wherein it comprises at least a biological parameter detection module, used to monitor users' biological parameters in real-time; a data processing unit; an early warning algorithm; an intervention suggestion generation module; a user interface; a data storage unit, used to store the user's biological parameter data and warning history. Early detection:by monitoring user' biological parameters in real-time, the system can detect abnormalities in the early stages of the development of vascular lesions, which helps to achieve early diagnosis and intervention; personalized intervention: the system provides personalized intervention measures based on the user's specific situation and biological parameter data, comprising customized lifestyle change suggestions, medication treatment plans, or medical consultations, which helps to improve the effectiveness and targeting of interventions.

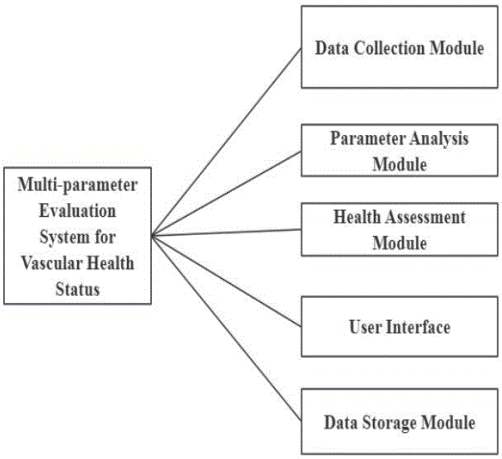


21: 2024/09906. 22: 2024/12/20. 43: 2025/07/02
51: G06F
71: Dongguan Songshanhu Central Hospital
72: Liqiu Yan, Ying Mao, Jingfu Chen, Wenjie Liu, Longwei Liang, Fengzhou Fu

54: MULTI-PARAMETER EVALUATION SYSTEM FOR VASCULAR HEALTH STATUS

00: -

A multi-parameter evaluation system for vascular health status: a data collection module; a parameter analysis module; a health assessment module; a user interface; a data storage module. Comprehensiveness: the system can collect and analyze various physiological parameters, comprising blood pressure, heart rate, blood oxygen saturation, blood glucose levels, and cholesterol levels, providing users with a comprehensive vascular health assessment. Real time monitoring: through real-time data collection and analysis, the system can capture individual physiological changes in a timely manner, providing timely health feedback and warnings.

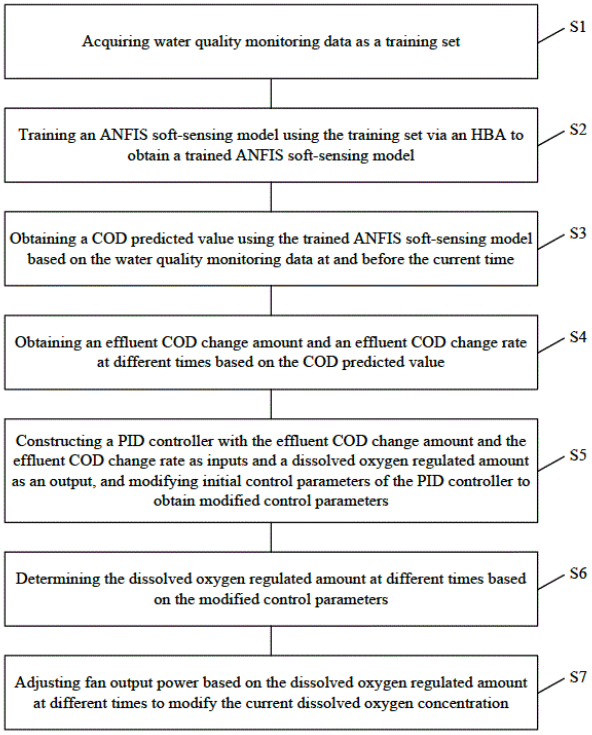


21: 2024/09907. 22: 2024/12/20. 43: 2025/07/02
51: C02F
71: Huadian Water Technology Co., Ltd.
72: TANG, Jinlong, XUN, Hongmin, CHEN, Beiyang, LIU, Feng, YE, Shurong, MENG, Lu, WANG, Zhengping, SUN, Zhenyu

54: INTELLIGENT REGULATING AND CONTROL METHOD FOR DISSOLVED OXYGEN OF AEROBIC TANK

00: -

The present invention discloses an intelligent regulating and control method for dissolved oxygen of an aerobic tank, including the following steps: training an ANFIS soft-sensing model using the training set via a Honey Badger Algorithm (HBA) to obtain a trained ANFIS soft-sensing model, and obtaining a Chemical Oxygen Demand (COD) predicted value through model prediction; constructing a PID controller with an effluent COD change amount and an effluent COD change rate as inputs and a dissolved oxygen regulated amount as an output, and modifying initial control parameters of the PID controller to obtain modified control parameters; determining the dissolved oxygen regulated amount at different times based on the modified control parameters; and adjusting fan output power based on the dissolved oxygen regulated amount at different times to modify the current dissolved oxygen concentration. The method improves the generalization ability and stability of the ANFIS soft-sensing model.

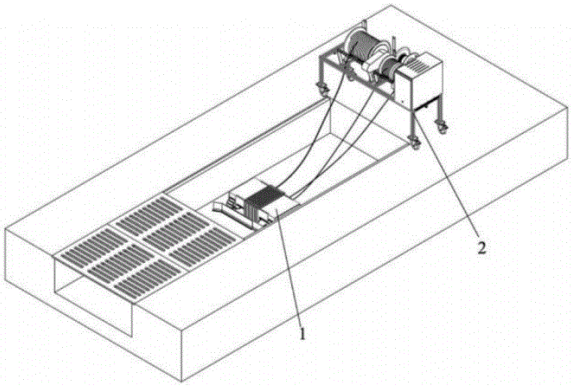


21: 2024/09909. 22: 2024/12/20. 43: 2025/07/02
51: A01K
71: Zhejiang Academy of Agricultural Sciences
72: ZHOU, Weidong, ZHOU, Xin, LIU, Kaige, JI, Honghu, LI, Kui, CAI, Jing, CHENG, Jufen, LU, Fuzeng, LI, Shourun, GUO, Ao, BAO, Quan

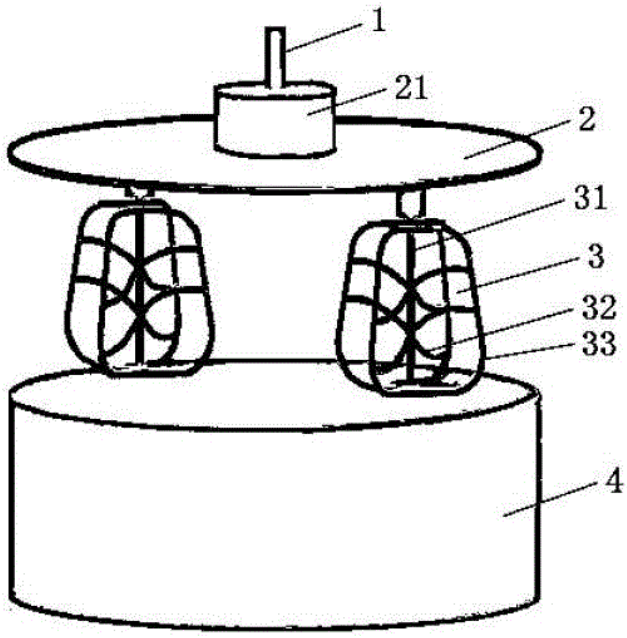
54: A DUNG-CLEARING ROBOT WITH ADAPTIVR DUNG CHANNEL QIDENING FUNCTION FOR LIVESTOCK ANG POULYRY HOUSE

00: -

This invention discloses a scraping robot, which includes a mobile track, a width adjustment component, a frame component, a cleaning nozzle component, a collision detection guide wheel component, etc. The front and rear ends of the frame component are equipped with two proximity switches; the follower vehicle includes a lifting component, a cable reel, a water pipe reel, etc. The width adjustment component realizes the adjustment of the mobile track and the push plate component, and the collision detection guide wheel component realizes the close contact of the push plate ends with the wall of the manure trench, thereby improving the adaptability of the cleaning robot to different width manure trenches.



21: 2024/09910. 22: 2024/12/20. 43: 2025/07/14
51: B01F
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: NIU Zhehui, WANG Shuai, PANG Kaige, PANG Binbin
54: STIRRING PADDLE AND STIRRING DEVICE FOR MAKING LITHIUM ION BATTERY
00: -
The invention relates to a stirring paddle and a stirring device capable of changing the stirring range. The stirring device includes a stirring box and a stirring paddle extending into the stirring box, and the stirring paddle is driven to rotate by a driving device; the stirring paddle includes a central shaft which is coaxially and rotationally connected with a rotating shaft; at least one group of shifting lever groups is fixed on the central shaft; the shifting lever groups include two pairs of shifting lever pairs; the two shifting levers of the shifting lever pairs are symmetrically arranged about the axis of the central shaft and are in a vertical plane passing through the axis of the central shaft; the two vertical planes of the two shifting lever pairs of the same group are perpendicular; one of the two shifting lever pairs of the same group is centered. The upward-protruding arc-shaped shifting lever and the downward-protruding arc-shaped shifting lever respectively turn the relatively upper and lower materials, so that the materials in the up-and-down direction exchange positions with each other, thus realizing the turning and stirring of the materials in the up-and-down direction and making the materials mix more evenly.

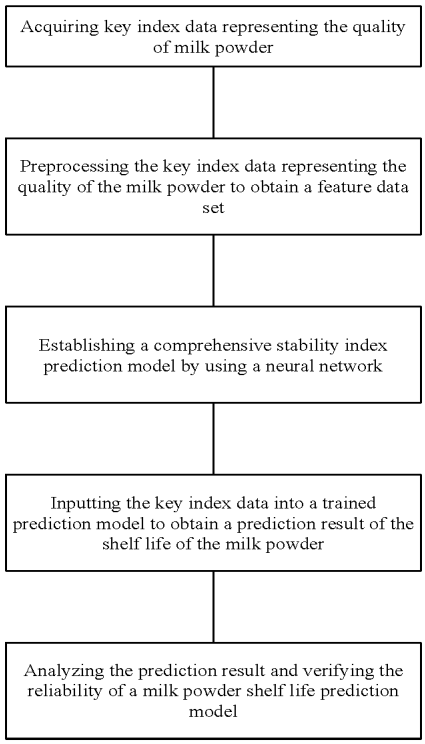


21: 2024/09911. 22: 2024/12/20. 43: 2025/07/02
51: A23K; C12N
71: INSTITUTE OF ANIMAL HUSBANDRY OF HEILONGJIANG ACADEMY OF AGRICULTURAL SCIENCES
72: CHEN, Heshu, WANG, Wentao, ZHANG, Haifeng, TIAN, Ming, WU, Saihui, LIU, Ziguang, FENG, Yanzhong, HE, Haijuan, QI, Meiyu, LI, Zhongqiu
54: APPLICATION OF COMPOUND MICROBIAL AGENT IN PREPARING PIG FEED ADDITIVES
00: -
The present invention discloses an application of a compound microbial agent in preparing pig feed additives, falling within the technical field of feed additives. The compound microbial agent includes Lactobacillus curvatus B80558, Aspergillus carbonarius BMZ134186 and Bacillus natto BMZ123210. Compared with the prior art, the compound microbial agent of the present invention has the beneficial effects that the growth performance of pigs can be improved, the immunity of pigs can be enhanced, the flavor quality of meat can be improved, and the economic benefits of breeding can be improved.

21: 2024/09912. 22: 2024/12/20. 43: 2025/06/25
51: A23L; A47J
71: A.P.S. PLASTICS (PTY) LTD.
72: Herzel SABAN
54: GRINDER ARRANGEMENT

00: -
The invention discloses a grinder arrangement for grinding and/or milling spices includes a body having an integrally formed container adapted for holding spices; gear means made of PET and consisting of an inner gear wheel, and an outer gear wheel integrally formed within the body; a ring member integrally formed to the body and the outer gear wheel and adapted to secure the gear means within the body; and a removable lid adapted to be located on top of the body and close-off the body. Also disclosed is a grinder arrangement for grinding and/or milling spices includes a body; gear means made of PET and consisting of an inner gear wheel and an outer gear wheel located within the body; and a ring member adapted to be fixed to the body to secure the gear means within the body.

21: 2024/09921. 22: 2024/12/20. 43: 2025/07/02
51: G06N
71: TECHNOLOGY CENTRE OF DALIAN CUSTOMS
72: XUE, Weifeng, WANG, Qi, LIU, Shuilin, LIN, Xiaomei, JIANG, Haihang, JIN, Sheng, WU, Jian
54: MILK POWDER SHELF LIFE PREDICTION METHOD BASED ON NEURAL NETWORK
00: -
The present invention discloses a milk powder shelf life prediction method based on a neural network, and relates to the field of food quality assessment and shelf life prediction. The method includes the following steps: acquiring key index data representing the quality of milk powder; preprocessing the key index data representing the quality of the milk powder to obtain a feature data set; establishing a comprehensive stability index prediction model by using a neural network; inputting the key index data into a trained prediction model to obtain a prediction result of the shelf life of the milk powder; and analyzing the prediction result and verifying the reliability of a milk powder shelf life prediction model. The method for predicting the shelf life of the milk powder established by the present invention takes into account the changes in the comprehensive quality of milk powder more comprehensively, and effectively avoids the one-sidedness of predicting the shelf life of milk powder by a single index.

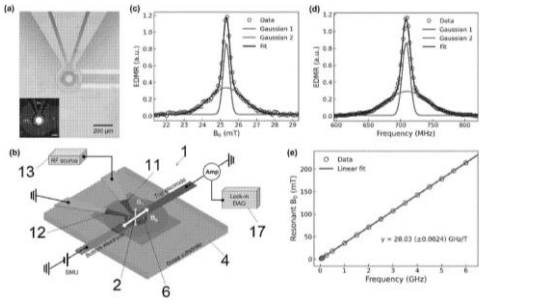


21: 2024/09922. 22: 2024/12/20. 43: 2025/07/02
51: C12N
71: Shandong Agricultural University
72: Xinqi GAO, Xiaomin BIE, Lecheng ZHENG, Wei CAI, Tian SANG
54: APPLICATION OF TASMD3 GENE IN IMPROVING DROUGHT RESISTANCE OF WHEAT
00: -
The invention discloses application of a wheat TaSmD3 gene in improving drought resistance of wheat, and belongs to the technical field of breeding drought-resistant varieties of plants.

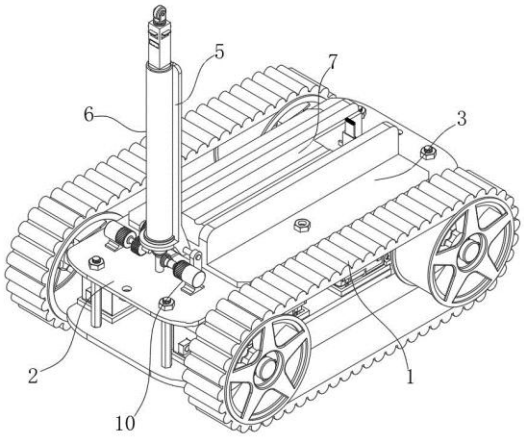
>TraesCS4B02G392700:TraesCS4B02G392700.1 cds:protein_coding
ATGAGCCGCAGCCTGGGGATCCCGGTGAAGCTGCTGCACGAGGCGGCGGGGCA
CGTGGTGACGGTGGAGCTCAAGACCGGCGAGGTCTACCGGGGCTCCATGATCGAGT
GCGAGGACAACTGGAACTGCCAGATCGAGAACATCACCTTCACCGCCAAGGACGGC
AAGGTTTCGCAGCTGGAGCACGTCTTCATCAGGGGCAGCAGGGTCCGCTTCATGATC
ATCCCCGACATGCTCAAGAACGCCCCCATGTTCAAGCGCCTCGAGGCCAGGATAAGG
GGCAAGGGGTCGGCCATCGGTGTCGGGCGTGGCCGTGCTGTCGCGATGCGTGCCCG
GGCTGCTGGTGGTCGTGGTGGTGGCCCCCCAGTTGGTGGAGGACGAGGTGGCGCGC
CTCCCGTGAGGAGGTAG

21: 2024/09927. 22: 2024/12/20. 43: 2025/07/02
51: G01N; G01R; H01L; B82Y
71: NEWSOUTH INNOVATIONS PTY LIMITED
72: MCCAMEY, Dane, GENG, Rugang, MENA, Adrian, PAPPAS, William

33: AU 31: 2022901738 32: 2022-06-23
54: MAGNETIC FIELD SENSOR
00: -
A magnetic field sensor 1 includes an electrically inert and optically clear substrate 4 that has opposed upper and lower surfaces. A microwave or RF generator element 13 is disposed on the upper side of the substrate where the generator element 13 is configured to be connected to an electrode for connection to a microwave of RF generator. The sensor 1 includes a heterostructure organic light emitting diode (OLED) 2 disposed adjacent the microwave or RF generator element 6, the OLED being configured to be connected to a first electrode and a second electrode.

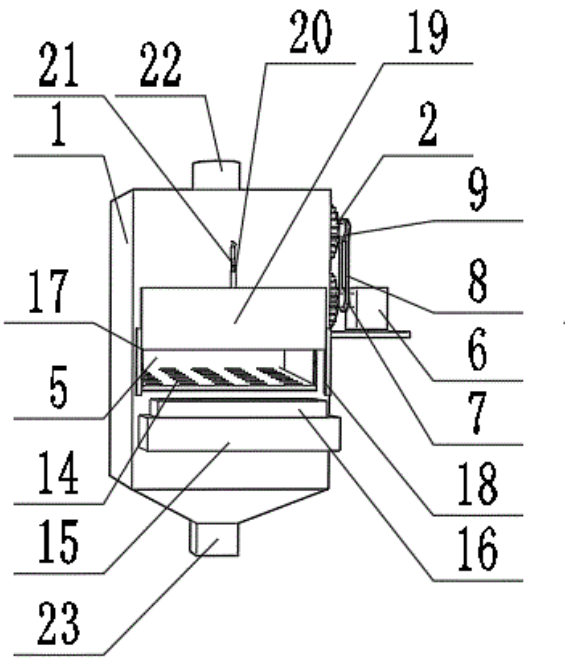


21: 2024/09937. 22: 2024/12/20. 43: 2025/07/02
51: G01N
71: Shaanxi Energy Institute
72: Xiaohong Tian, Haiying Ding, Jie Zhou, Huiqiong Wang, Yujie Li, Miao Hao, Bofei Yang, Xinwei He, Zhouyan Zhao
33: CN 31: 202410627245.0 32: 2024-05-21
54: A COAL MINE UNDERGROUND GAS CONTROL DETECTION DEVICE
00: -
The invention relates to the technical field of coal mine safety detection, and discloses a coal mine underground gas control detection device, including a tracked vehicle. The tracked vehicle is equipped with a loading platform, and also includes a storage platform mounted on the loading platform, which is installed with a docking shaft. The mounting frame is fixed through the butt shaft, the mounting frame is installed with an air intake unit, and the storage platform is provided with a storage opening for placing the air intake unit; And the detection frame fixed at the bottom of the loading platform, the detection frame is installed with an air pump, and the outer end of the air pump is fixed and connected with the gas pipe, and the other end is connected with the detection instrument. The present invention improves the existing gas detection device. The intake treatment component designed at the top of the intake unit can directly filter the absorbed gas to remove impurities, so that no debris remains on the inner wall of the airway. At the same time, when the intake unit is in a flat state, it can self-clean the particles and dust collected in the intake treatment component, which can meet the long-term underground gas detection operation.



21: 2024/09963. 22: 2024/12/23. 43: 2025/07/14
51: B02C
71: LUDONG UNIVERSITY
72: ZHOU Hong, LUAN Yexing, ZHOU Jianbo
54: CIVIL ENGINEERING CONSTRUCTION WASTE TREATMENT DEVICE
00: -
The present invention provides a civil engineering construction waste treatment device, belonging to the field of civil engineering technology, including a processing box; a power system, the power system is set in the outer wall of the processing box; a mixing system, the mixing system is set in the processing box, the mixing system includes a first gear connected to the power system, the first gear meshes with the second gear, the first gear and the second gear are respectively connected to the crusher roller through the middle of the rotating shaft, the two adjacent crusher rollers engage, the rotating shaft passes through the treatment box and is rotationally connected to the processing box; a flushing system, the flushing system is located below the mixing system and solidly connected to the

processing box; a sieving system , the sieving system is solidly connected to the processing box, and is located below the flushing system; and a collection system, the collection system includes an outlet opening on the processing box, and the outlet opening is solidly connected to the sieving system. The present invention can not only improve the pulverizing effect of the construction waste, but also improve the dust removal effect.

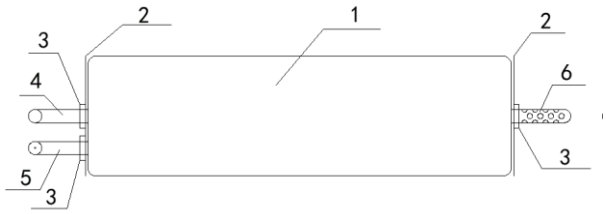


21: 2024/09964. 22: 2024/12/23. 43: 2025/07/02
51: E21B
71: University of Science and Technology Beijing, Middling Coal Mining Research Institute Co., Ltd, North China Institute of Science and Technology, Henan Polytechnic University, China University of Mining & Technology, Beijing, Jiangsu Hengyichuang Intelligent Technology Co., Ltd., Zhengzhou Ningke Mine Engineering Co., Ltd.
72: GUO Kai, WANG Hongbing, ZHANG Jinhu, CHENG Zhiheng, WANG Yang, CHEN Haoyi, SU Erlei, JU Luchao, CHEN Liang, ZHOU Lijie, YU Hongyang, ZHANG Zherui, LI Chunyuan, LIU Ruiyang, GUO Rutao, KANG Ning, LIU Jiaqi, HE Liusheng, HE Wanshun

54: REUSABLE UNDERGROUND FAST HOLE SEALING PRESSURE MEASURING DEVICE

00: -

The invention belongs to the technical field of hole sealing and pressure measurement, and aims to provide a reusable underground fast hole sealing pressure measuring device, which can be used for fast hole sealing after the underground drilling construction is completed, so as to measure the gas pressure. The main device includes three main components: a pipe body, an airbag and a baffle. One end of the pipe body is provided with a small hole, which is the front end, and one end is used for connecting a pressure gauge, which is the rear end. The airbag is sleeved on the pipe body, and the position of the airbag is fixed at both ends by baffles. The baffle is fixed on the pipe body with a nut. When in use, the device is put into the drilled hole, the airbag is inflated by the air pump, the airbag inflates to block the hole, and then the pressure gauge is connected to measure the pressure. The invention has the characteristics of simple structure, convenient disassembly, easy operation and the like, and adopts a detachable structure and method to solve the problems of complicated procedures and high cost in the existing hole sealing mode.



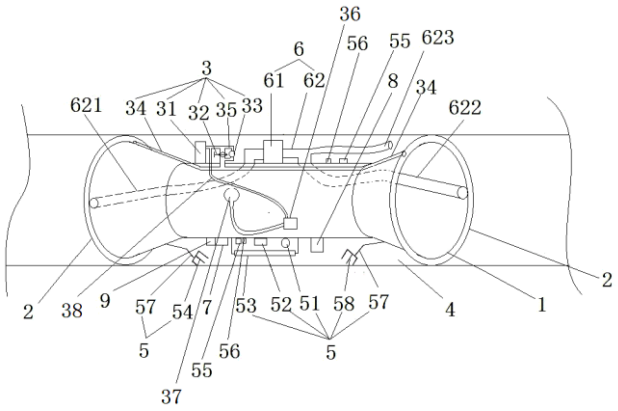
21: 2024/09965. 22: 2024/12/23. 43: 2025/07/14
51: F16L
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: GU Deming, MAO Yanli, HE Yali, LI Lei, SU Zhe, RONG Haoxiang, YUE Mingfei, XIE Zihan, GAO Liubo

54: STABLE REPAIRING DEVICE AND METHOD FOR TRENCHLESS UNDERGROUND DRAINAGE PIPELINE

00: -

The invention discloses a stable repairing device and method for trenchless underground drainage pipeline, and relates to the technical field of pipeline repairing, including a pipe body, wherein the outer diameter of two ends of the pipe body are larger than the outer diameter of the middle part; an annular air bag and an air supply mechanism, where the annular air bag is fixed on the outer peripheral sides of two ends of the pipe body, and the air supply mechanism is fixed on the outer side wall surface of the middle part of the pipe body and is

communicated with the annular air bag through an air pipe; in that inflated state, the peripheral wall of the two annular air bags can abut against the inner wall of the water delivery pipeline, so that a repair cavity is formed between the outer wall of the pipe body and the inner wall of the pipeline; the outer wall of the pipe body is provided with a repair mechanism corresponding to the repair cavity; the hydraulic driving mechanism, which is fixed on that outer wall of the pipe body and communicate to a position close to one end of the pipe body through a water delivery pipe, and the water spraying or suction direction of the water delivery pipe forms a predetermined included angle with the central axis of the pipe body; the controller, which is fixed on the outer wall of the tube body; the air supply mechanism, the repairing mechanism and the hydraulic driving mechanism are all electrically connected with the controller; the invention can carry out pipeline repairing without shutting down the pipeline water supply.

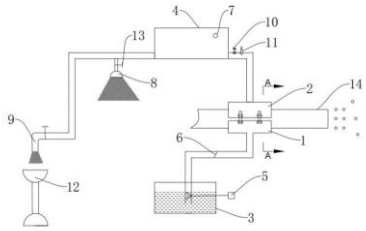


21: 2024/09966. 22: 2024/12/23. 43: 2025/07/02
51: F01N
71: Lingnan Normal University
72: CHEN, Jingyuan, CHEN, Yulin, CHEN, Lujin, MING, Xianglan, LI, Jinyi
33: CN 31: 202422839510.X 32: 2024-11-20

54: EXHAUST HEAT ENERGY UTILIZATION DEVICE FOR RECREATIONAL VEHICLE

00: -

Disclosed is an exhaust heat energy utilization device for a recreational vehicle, including an annular external encircling water tank, an ambient temperature water tank, a hot water tank, and a water pump. The annular external encircling water tank is mounted around the exterior of an exhaust pipe of the recreational vehicle and closely fitted to an outer wall of the exhaust pipe. The water pump is provided within the ambient temperature water tank, the ambient temperature water tank is in communication with the annular external encircling water tank through a first connecting water pipe, and a one-way valve is provided within the first connecting water pipe. The water pump is configured to pump the water in the ambient temperature water tank into the annular external encircling water tank. The hot water tank is in communication with the annular external encircling water tank through a second connecting water pipe.



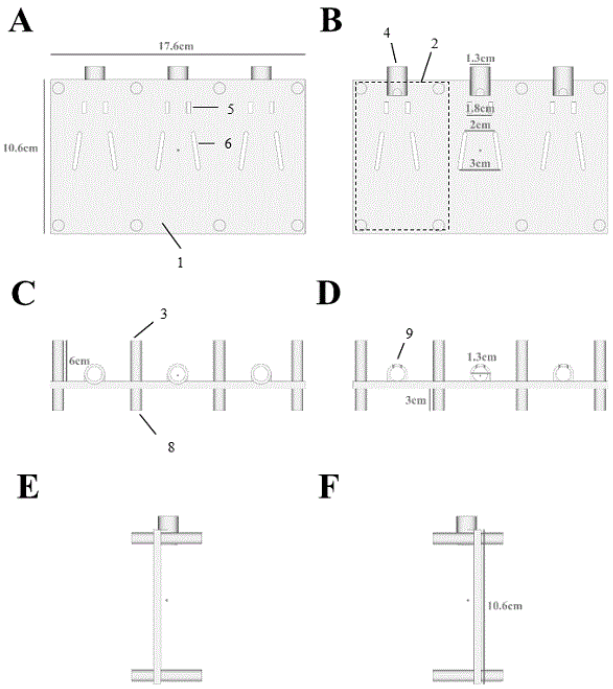
21: 2024/09967. 22: 2024/12/23. 43: 2025/07/14
51: A61D
71: The Second Affiliated Hospital of the Chinese People's Liberation Army Army Medical University
72: LI Guobing, WU Zhifeng, ZHANG Yuping

54: MULTIFUNCTIONAL 3D-PRINTED RODENTS BATCH FIXATION DEVICE

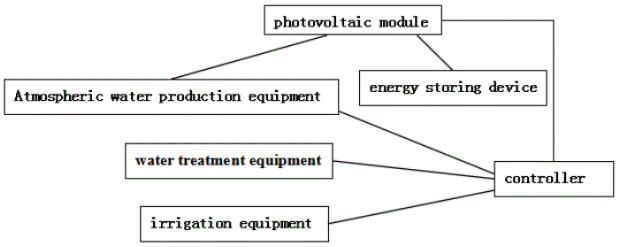
00: -

The invention discloses a multifunctional 3D-printed rodents batch fixation device, which includes a fixation plate which is divided into a plurality of fixing areas; the fixing area includes: fixing columns, which are arranged at the four corners of the fixing area and are fixedly connected with the fixation plate; a head fixing ring, which is arranged between the top two fixing columns and fixedly connected to the top surface of the fixation plate; neck fixing holes, which are arranged in pairs and are symmetrical about the axis of the head fixing ring; trunk fixing holes, which are arranged in pairs and symmetrical with respect to the axis of the head fixing ring, are located at the side of the neck fixing hole far away from the head fixing ring; the neck fixing hole, the trunk fixing hole and the fixing columns are all provided with binding structures. The invention can carry out batch operation on experimental rats, saving time and labor. It can be used to fix the experimental rats in a variety of ways, such as positive and negative

fixation, exposed abdomen fixation, etc., which is suitable for a variety of experimental needs, and is firm in fixation, convenient in fixation operation process and safer in use, and is more in line with animal ethics.



21: 2024/09968. 22: 2024/12/23. 43: 2025/07/02
51: A01G
71: INNER MONGOLIA MINZU UNIVERSITY, Qingfu ZHENG, Zhenguo WANG
72: Qingfu ZHENG, Zhenguo WANG, Yan LI, Sileng HU, Xue HAN, Ah Jung Gowa, Bo YU
54: THE INVENTION RELATES TO AN EFFICIENT PHOTOVOLTAIC ATMOSPHERIC WATER IRRIGATION SYSTEM
00: -
The application discloses an efficient photovoltaic atmospheric water irrigation system, which belongs to the technical field of irrigation equipment and water resources utilization. Including photovoltaic modules that provide energy sources, atmospheric water production equipment and energy storage equipment connected with the bottom of the photovoltaic module through a pipeline, water treatment equipment arranged at the bottom of the atmospheric water production equipment, irrigation equipment connected with the water treatment equipment through an outlet pipe, a controller connected with the photovoltaic module, atmospheric water production equipment, water treatment equipment, irrigation equipment and sensor systems, The sensor system is distributed on the photovoltaic module, atmospheric water making equipment and water treatment equipment, and is connected to the controller for providing various monitoring data, and the photovoltaic module is connected to the energy storage device through the wire and pipeline for storing electric energy. Therefore, this application uses the above efficient photovoltaic atmospheric water irrigation system to solve the lack of a sustainable access to water and efficient use of energy for irrigation technology.



21: 2024/09969. 22: 2024/12/23. 43: 2025/07/02
51: H01M
71: TONGLIAO AGRICULTURAL AND ANIMAL HUSBANDRY RESEARCH INSTITUTE, Qingfu ZHENG, Zhenguo WANG, Yan LI
72: Yan LI, Qingfu ZHENG, Zhenguo WANG, Zhilan DENG, Fengjuan CUI, Mo LI, Qingquan XU, Feng WEN, Jingbo LYU, Xiaoguang JIN, Haize WANG, Tianyu CUI, Meijuan XIE, Xuelian BAO
54: THE INVENTION RELATES TO A METHOD FOR SEPARATING THE KNEAD JUICE OF SORGHUM STALK AND PREPARING CARBON FIBER
00: -
The application discloses a method for separating sorghum stalk kneading juice and preparing carbon fiber, which belongs to the technical field of carbonization. In this application, the sorghum stalks were enzymatically hydrolyzed with a compound enzyme preparation, and soaked in a dilute sulfuric acid solution with a concentration of 7% for 45 minutes. At the same time, the ultrasonic device was turned on for ultrasonic treatment. After soaking, the sorghum stalks were drained of acid, and then sent to the rubbing unit of the juice separation carbonization machine. In the kneading process, when the turbidity of the juice reaches 80NTU, add 70 grams of PAC solution per cubic meter of juice

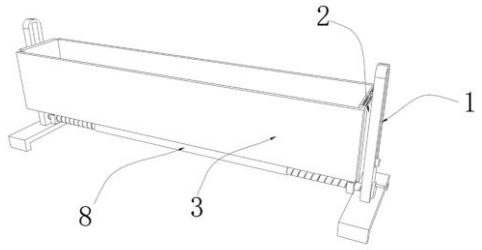
and kneading for 13 minutes, then add 15 grams of PAM solution per cubic meter of juice to continue kneading for 7 minutes, and then separate the juice and fiber by separating the juice separation device of the carbonizing machine, and collect the separated juice into the juice storage tank. The fibers are then carbonized in three steps. The obtained carbon fiber has excellent adsorption properties and thermal stability.

21: 2024/09970. 22: 2024/12/23. 43: 2025/07/02
51: A01K
71: Shanhu Breeding Farm, Ganzhou District, Zhangye City, Gansu Province
72: Gang WANG, Rong CHANG, Jianhong SUN, Yubing WEI, Shoufu MA

54: AUTOMATIC DRINKING WATER DEVICE FOR BEEF CATTLE BREEDING

00: -

The present invention relates to the field of beef cattle breeding, and discloses an automatic drinking water device for beef cattle breeding, comprising a support frame, the inner wall of the support frame is slidably connected with a fixed block, the left end of the fixed block is fixedly connected with a sleeve box, the inner wall of the sleeve box is slidably connected with a moving frame, the inner wall of the moving frame is provided with a limiting mechanism, the top of the sleeve box is provided with a slot, the inner wall of the support frame is provided with an adjustment component, the limiting mechanism includes a pull block, the pull block is slidably connected to the inner wall of the moving frame, and the outer wall of the pull block is fixedly connected with a card plate. In the present invention, by simply operating the pull block, the card plate and the card slot, the water storage space can be easily increased or decreased to meet the needs of different breeding scales. Whether it is to increase the water storage capacity when breeding a large number of cattle, or to reduce the water storage space according to actual conditions, it can effectively avoid the waste of water resources and the deterioration of water quality, improve the practicality and economy of the device, and accurately adapt to the beef cattle breeding scene.

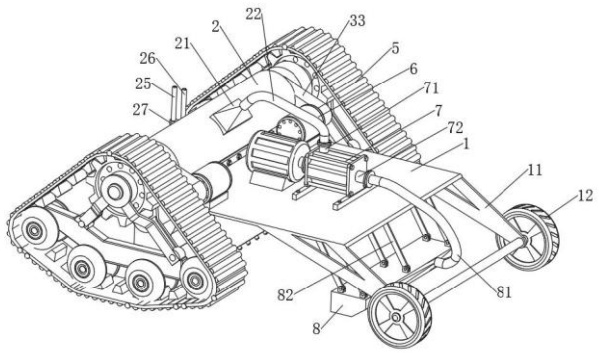


21: 2024/09971. 22: 2024/12/23. 43: 2025/07/02
51: B08B
71: SHANXI PROVINCIAL AQUATIC PRODUCTS TECHNOLOGY PROMOTION SERVICE CENTER, SHANXI AGRICULTURAL UNIVERSITY
72: WANG, Xianzhen, LI, Xiaodong, HOU, Xiaolei, ZHU, Guoqing, LIU, Shaozhen

54: AUTOMATIC BOTTOM CLEANING DEVICE

00: -

The present invention relates to the technical field of pond bottom cleaning equipment, and specifically, to an automatic bottom cleaning device, comprising: wherein the bottom of the bearing base is fixedly connected to a supporting frame, a dirt-guiding cylinder provided at an end of the bearing base away from the rear moving wheel,conveying chambers fixedly arranged at both ends of the dirt-guiding cylinder, wherein a dirt-storage chamber is fixedly connected to a lower portion of the conveying chamber,wherein a dirt-guiding plate is fixedly mounted on a surface of the first rotating shaft,which pumps water at the bottom of a pond through a dirt pump and then pumps the water into a dirt-guiding cylinder through a first water inlet pipe, and as the water pressure in the dirt-guiding cylinder and a drainage chamber increases, ejects the water in the drainage chamber through a cleaning nozzle to clean up dirt at the bottom of the pond, thereby preventing hardening of a brush due to adherence of dirt and providing better cleaning effect with the capability of cleaning the uneven pond bottom through the cleaning nozzle.

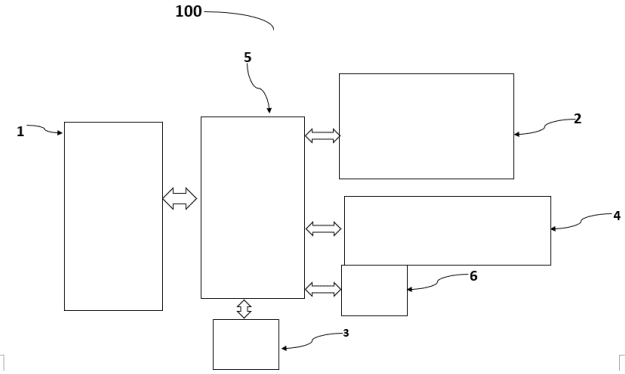


21: 2024/09976. 22: 2024/12/23. 43: 2025/07/09
51: G06Q
71: Prof.Dr. Gowri Ramesh, Dr.S.Rajalakshmi, E.Ramya, Dr.M.Selvam
72: Prof.Dr. Gowri Ramesh, Dr.S.Rajalakshmi, E.Ramya, Dr.M.Selvam

54: SYSTEM OF SUSTAINABLE INVESTMENT MODELS INTEGRATING BUSINESS LAW FOR GREEN FINANCE

00: -

The present invention relates to a Green Investment Regulatory Engine (GIRE), a system designed to facilitate and regulate sustainable investments by integrating business law, green finance, and advanced technologies such as blockchain, artificial intelligence (AI), and the Internet of Things (IoT). The system features modules for secure transaction recording, automated regulatory compliance checks, management of green financial instruments, real-time monitoring of projects, data analysis, and stakeholder collaboration. It ensures legal compliance, enhances transparency, and optimizes investment processes, addressing challenges such as regulatory complexity and inefficient monitoring. By leveraging AI and blockchain, the system automates compliance checks, tracks investment impact, and certifies sustainability goals. The GIRE is tailored for complex regulatory landscapes, particularly in India, and supports global sustainability objectives, fostering investor confidence and promoting economic growth. This invention offers a scalable, legally compliant platform to drive impactful investments in green projects, aligning with international sustainability standards.

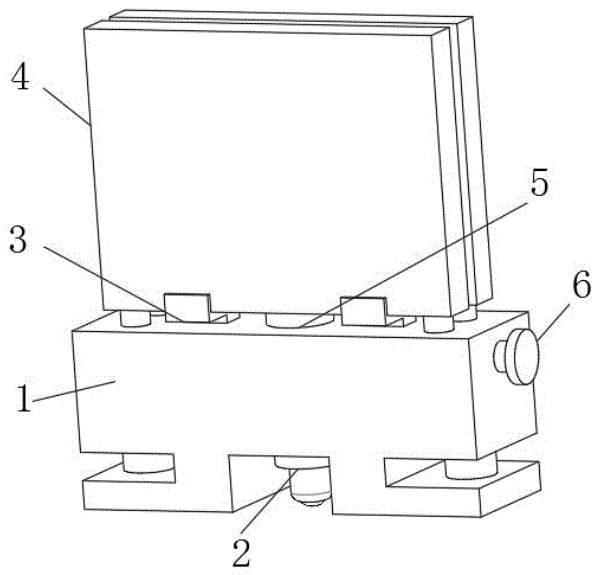


21: 2024/09977. 22: 2024/12/23. 43: 2025/07/02
51: E04H
71: Jiangsu College of Safety Technology
72: Zhu Lu
33: CN 31: 202410766490X 32: 2024-06-14

54: AN ISOLATION NOISE REDUCTION DEVICE FOR CONSTRUCTION PROJECT MANAGEMENT

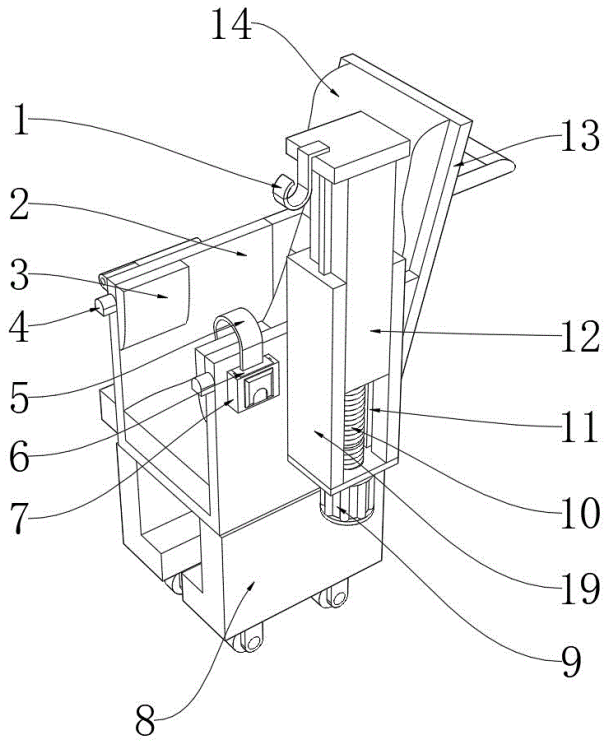
00: -

The present invention relates to the field of construction technology and discloses an isolation noise reduction device for construction project management. The device includes a support device, with a support column fixedly connected to the top of the support device. A noise reduction partition is fixedly connected to the top of the support column. A threaded drill rod is positioned at the center of the support device, and a control device is located on the side of the support device. A fixing frame is set on the top of the support device and is movably connected with both the support device and the noise reduction partition at the top. The control device enhances the stability of the connection between the noise reduction partition and the support device, allowing for faster assembly and disassembly during use. The noise reduction partition divides noise into multiple parts, absorbing it in layers and thereby improving the noise reduction effect. The device is simple in structure, cost-effective, and enhances practical applicability.



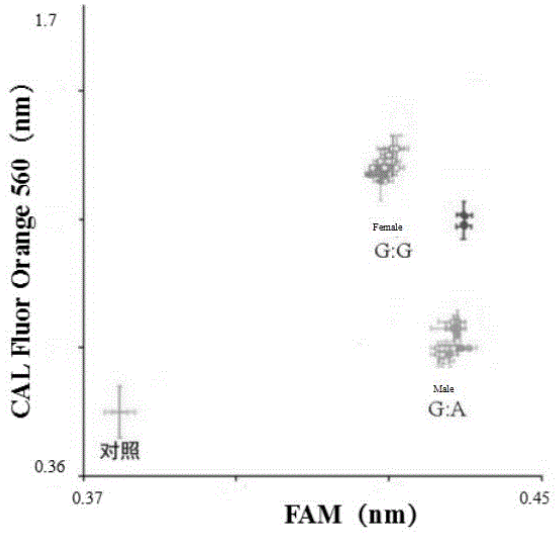
21: 2024/09978. 22: 2024/12/23. 43: 2025/07/02
51: A61M
71: Hainan Vocational University of Science and Technology
72: Cao Weijie, Ye Chengrui, Ji Chengwei
54: MOBILE INFUSION VEHICLE FOR CHILDREN
00: -

The invention discloses a movable flowing infusion cart for children, which comprises a U-shaped chair seat, wherein the front side and the rear side of the top on the left side of the inner wall of the U-shaped chair seat are fixedly connected with a hand support plate, the front side of the hand support plate on the rear side is fixedly connected with an elastic band, the other end of the elastic band is fixedly connected with an inserting block, and the rear side of the inner wall of the inserting block is fixedly connected with a spring. In that invention, the brake motor drive the threaded rod to rotate, so that the sleeve can drive the hook to move upward along the first chute to a proper height, and then the infusion bottle is hung on the hook to fix the infusion arm of the child, so that the infusion child can move along with the vehicle conveniently, and the uncomfortable mood of the child caused by long-time infusion in a fixed place can be adjusted.



21: 2024/09979. 22: 2024/12/23. 43: 2025/07/02
51: C12Q
71: Research Institute of Subtropical Forestry, Chinese Academy of Forestry
72: Gao Ming
54: SINGELE NUCLEOTIDE POLYMORPHISM MARKER FOR SEX DETERMINATION OF LITSEA CUBEBA AND SCRENNING METHOD THEREFOR
00: -

The present invention provides a SNP (single nucleotide polymorphism) marker for sex determination of Litsea cubeba and a screening method therefor, and provides an application of SNP sites in genomes of Litsea cubeba in determining the sex of the Litsea cubeba. The sex of the Litsea cubeba can be accurately identified by detecting the SNP sites. The present invention provides a screening method for SNP sites for the sex determination of Litsea cubeba. By utilizing RAD sequencing technology to sequence and analyze Litsea cubeba samples, a functional SNP molecular marker unique to either the male or female Litsea cubeba is discovered. Through the present SNP marker, accurate sex determination of Litsea cubeba can be accomplished.

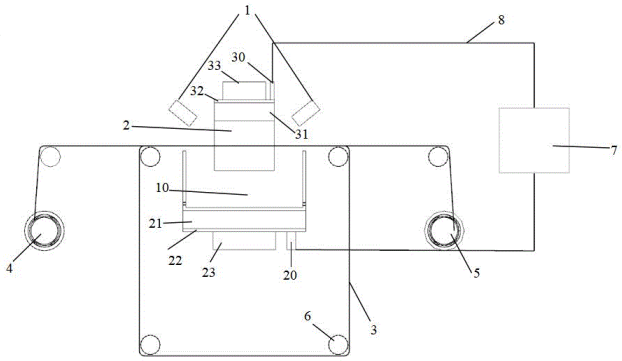


21: 2024/09980. 22: 2024/12/23. 43: 2025/07/02
51: C09G
71: Ningbo Polytechnic, Ningbo Shuaitelung Automotive Systems Co., Ltd
72: Zhang Wei, Wang Lixian

54: CUTTING AND POLISHING COMPOSITE PROCESSING METHOD AND PROCESS SUITABLE FOR POLYCRYSTALLINE SILICON

00: -

The present invention provides a cutting and polishing composite processing method and process suitable for polycrystalline silicon. The present method is based on traditional diamond fluid supply by connecting a dielectric field generating unit and a new cutting fluid supply box. Complete coverage of saw wire and polycrystalline silicon materials are with cutting fluid can be achieved, and the amount of the cutting fluid entering a cutting area can be enhanced. Therefore, lubrication and cooling effects in the cutting area are improved. SiO2 abrasive particles are added to the cutting fluid. The SiO2 abrasive particles become polarized in an inhomogeneous electric field and enter the cutting area under action of dielectric field forces, producing a combined machining effect of cutting and polishing the polycrystalline silicon materials. Therefore, slice quality and service life of the saw wire are improved.

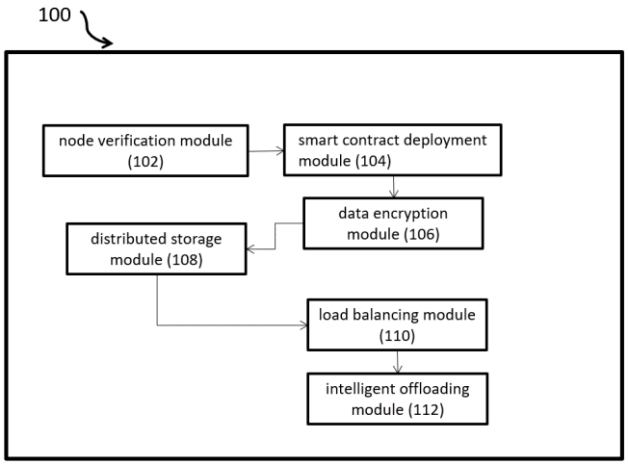


21: 2024/09981. 22: 2024/12/23. 43: 2025/07/02
51: G06F
71: Shrabani Sutradhar, Sudipta Majumder, Rajesh Bose, Haraprasad Mondal, Debnath Bhattacharyya
72: Shrabani Sutradhar, Sudipta Majumder, Haraprasad Mondal, Debnath Bhattacharyya, Rajesh Bose

54: A BLOCKCHAIN-BASED SYSTEM FOR SECURE MEDICAL DATA TRANSMISSION

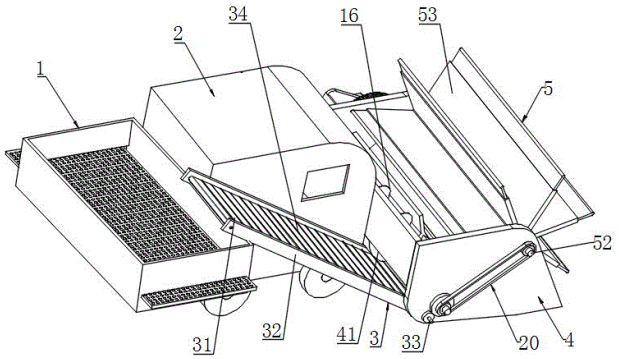
00: -

The present invention discloses a blockchain-based healthcare data management system operating within a fog-cloud infrastructure to ensure secure medical data transmission and Elec-tronic Health Repository (EHR) protection. The system comprises node verification using Quad Merkle Hash tree algorithm, smart contract deployment for automated node inclusion, Zero-Knowledge Proof encryption for data privacy, distributed storage across regional fog nodes, and intelligent offloading using Multi-critic Deep Deterministic Policy Gradient (DDPG) integrated with Markov Decision Process (MDP). The system operates through four main modules: node ver-ification and blockchain inclusion, data encryption, regional fog node storage, and optimized data offloading. This invention eliminates single point of failure issues, enhances data privacy and secu-rity, optimizes resource utilization, and ensures efficient load balancing. The system particularly benefits healthcare organizations requiring secure, efficient, and scalable management of sensitive medical data within IoMT environments.



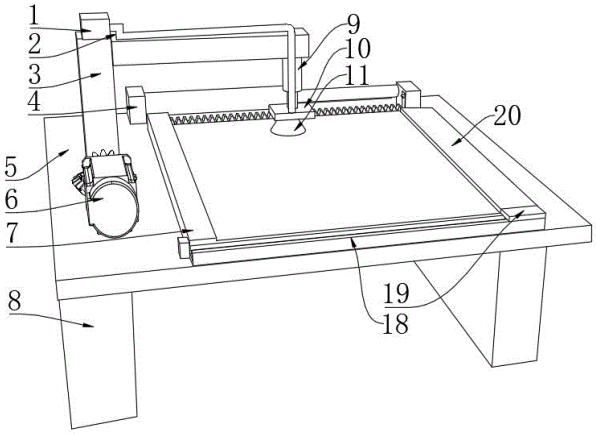
21: 2024/09982. 22: 2024/12/23. 43: 2025/07/02
51: B07B
71: Shandong University of Science and Technology
72: Zhang Lizhong
33: CN 31: 2024105835650 32: 2024-05-11
54: A SAND SCREENING DEVICE FOR CONSTRUCTION ENGINEERING
00: -

The invention belongs to the technical field of construction engineering, in particular relates to a sand screening device for construction engineering, comprising a moving mechanism, a sand screening mechanism is fixated behind the moving direction of the moving mechanism, a sand screening mechanism is provided with an inlet, a bucket is fixated in front of the moving direction of the moving mechanism, the opening of the bucket is deviated from the moving mechanism, and the bucket is provided with an outlet on one side facing the moving mechanism. A transmission component is arranged inclined between the discharge port of the bucket and the feed port of the sand screening mechanism, and the transmission component has a conveyor belt, and the upper end of the conveyor belt is bonded on the feed port of the sand screening mechanism; The lower end of the conveyor belt is placed under the discharge port of the bucket, and a pusher component is provided on the open side of the bucket to push the sand in the bucket from the discharge port to the conveyor belt. The device can realize the continuous automatic addition of sand material to the sand screening mechanism, saving time and labor, and the working efficiency is high.

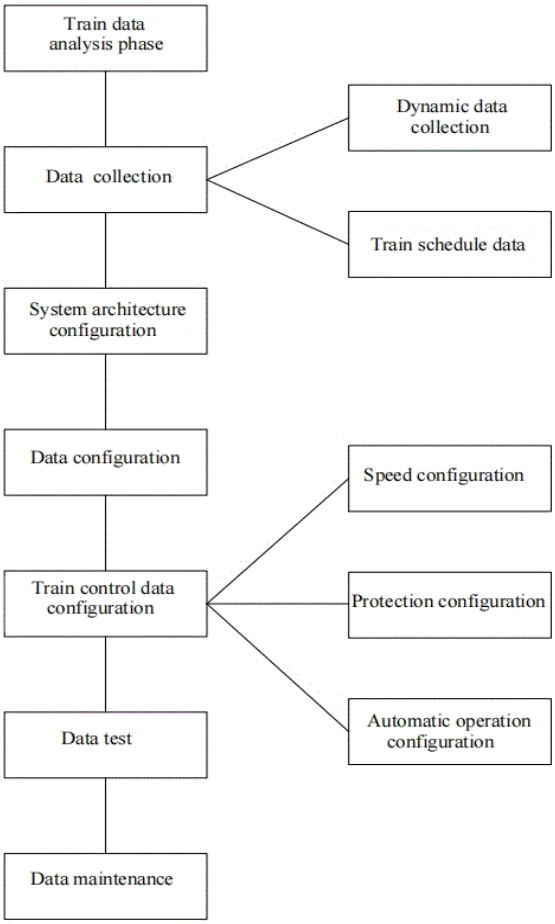


21: 2024/09983. 22: 2024/12/23. 43: 2025/07/02
51: H05K
71: Huzhou University
72: Liu Zhaoliang
33: CN 31: 2024115845610 32: 2024-11-07
54: AUTOMATIC ASSEMBLY DEVICE FOR CIRCUIT BOARDS
00: -

The present invention provides an automatic assembly device for circuit boards, including a backing plate. A rear side of a top of the backing plate is fixedly connected to a first support plate, a right side of the first support plate is fixedly connected to a second cylinder, an output end of the second cylinder is fixedly connected to a U-shaped support plate, an inner wall of the U-shaped support plate is rotatably connected to a first gear, and one side of the U-shaped support plate is fixedly connected to an L-shaped support rod. In the present invention, the first gear drives the L-shaped support rod to move, a chain drives limiting blocks to move towards a center, limiting the circuit board, adapting to different circuit boards, and improving the use effect.

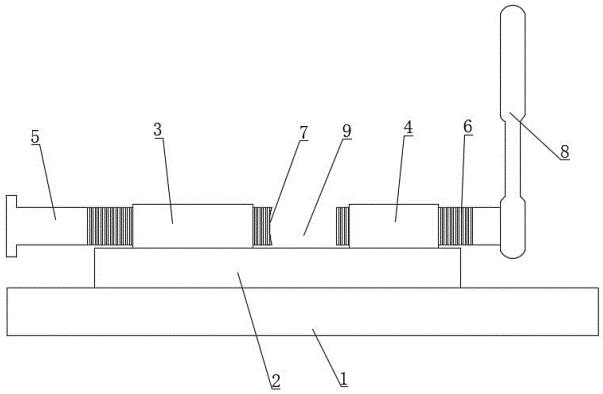


21: 2024/09984. 22: 2024/12/23. 43: 2025/07/02
51: B61L
71: Huzhou College
72: Nai Wei, Yang Zan, Li Dan
54: DATA CONFIGURATION METHOD FOR RAIL TRANSIT SIGNAL CONTROL SYSTEM
00: -
The present invention relates to the technical field of temperature sensing detection, and specifically to a data configuration method for a rail transit signal control system, including the following steps: train data analysis phase, data collection, system architecture configuration, data configuration, train control data configuration, data test and data maintenance. The train data analysis phase: collecting basic parameters of trains, including train length, maximum speed, accelerated speed, deceleration and the like, and using these parameters to calculate key parameters of signal control, including safe space headway; the data collection: including dynamic data collection and train schedule data; and the system architecture configuration: selecting an appropriate signal control system architecture according to size and complexity of rail transport lines.

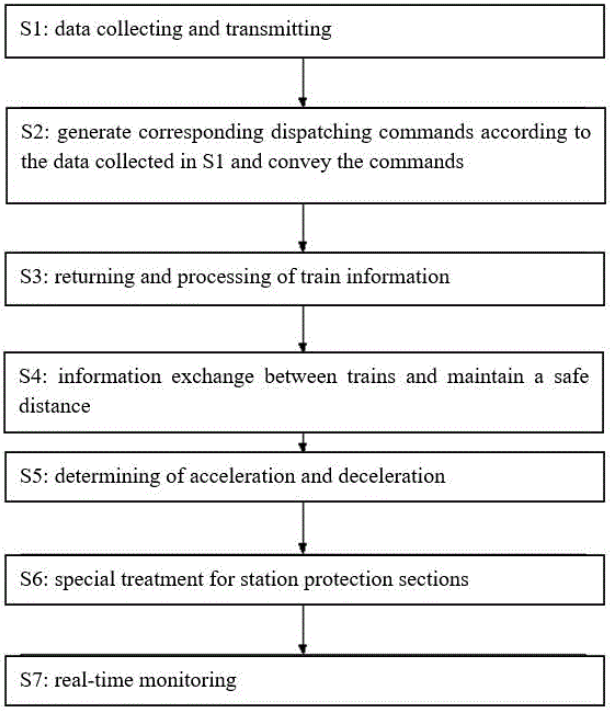


21: 2024/09985. 22: 2024/12/23. 43: 2025/07/02
51: A01C
71: Shandong Institute of Pomology
72: Tan Yue, Zhu Min, Xu Li, Zeng Peiyuan, Jiang Jiangang, Wei Hairong
33: CN 31: 2024116725156 32: 2024-11-21
54: CHERRY SEED SHELL BREAKING TOOL FOR TAKING KERNELS WITH NO DAMAGE
00: -
The invention discloses a cherry seed shell breaking tool for taking kernels with no damage, including a base, wherein a metal fixed platform is fixedly connected to the base; a first extended nut and a second extended nut are fixedly connected to the metal fixed platform; the first extended nut and the second extended nut are on the same straight line; the first extended nut is internally connected with a first bolt; the second extended nut is internally connected with a second bolt; the end face of the first bolt is provided with a shallow groove; and the shallow groove is located at one end of the first bolt close to the second bolt, and the second bolt is

detachably connected with a rotating handle, and a storage area is arranged between the first bolt and the second bolt. The invention can accurately control the extrusion degree of the seed shell, prevent the seed kernel from being damaged by excessive extrusion, and is more labor-saving than common nut pliers and nut clamps.

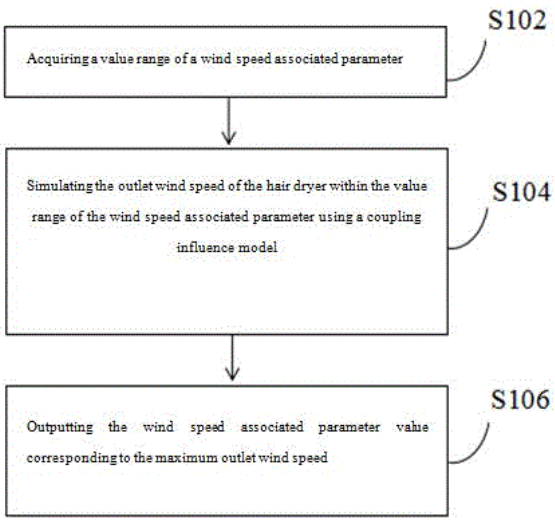


21: 2024/09986. 22: 2024/12/23. 43: 2025/07/02
51: B61L
71: Huzhou College
72: Nai Wei, Yang Zan, Li Dan
54: SIMULATION CONTROL METHOD FOR RAIL TRANSIT MOVING BLOCK SIGNALS
00: -
The present invention provides a simulation control method for rail transit moving block signals, falling within the technical field of rail transit control. The method includes: S1: data collecting and transmitting; S2: generating corresponding dispatching commands according to the data collected in S1 and conveying the commands; S3: returning and processing of train information; S4: information exchange between trains and maintaining a safe distance; S5: determining of acceleration and deceleration; S6: special treatment for station protection sections; and S7: real-time monitoring. The system may accurately simulate the running status of trains in real time. Through measures such as precisely calculating the running intervals between trains and maintaining a safe distance, it ensures the safe operation of trains in the simulation process. Moreover, it may be adjusted in real time according to different traffic conditions and simulation requirements. It may make predictions in advance regarding potential safety hazards caused by the shortening of the distance between trains and make adjustments accordingly, thus reducing the discomfort of passengers caused by continuous braking and improving the comfort level of passengers when taking trains.



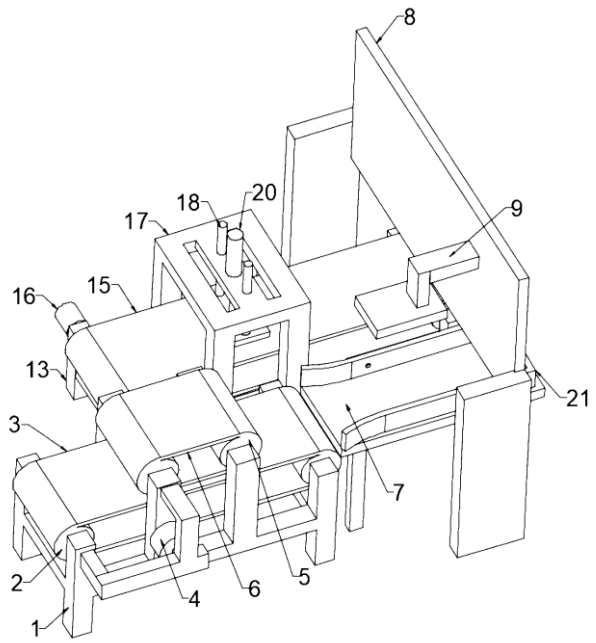
21: 2024/09987. 22: 2024/12/23. 43: 2025/07/02
51: G06F
71: Zhang Li
72: Zhang Li
54: METHOD FOR GENERATING HAIR DRYER STRUCTURE
00: -
The present disclosure belongs to the technical field of computers, and provides a method for generating a hair dryer structure. The method comprises: acquiring a value range of a wind speed associated parameter, simulating the outlet wind speed of the hair dryer within the value range of the wind speed associated parameter using a coupling influence model, outputting the wind speed associated parameter value corresponding to the maximum outlet wind speed. The method includes the coupling effects of multiple structural factors on the outlet wind speed of the hair dryer. By jointly simulating the effects of mul-tiple wind speed associated parameters on the outlet wind speed of the hair dryer, the accurate determination of relevant parameters for the design of the hair dryer structure is achieved, and the blowing performance of the

generated hair dryer simulation model is significantly improved.



21: 2024/10023. 22: 2024/12/23. 43: 2025/07/02
51: A01N
71: JIANGSU PESTICIDE RESEARCH INSTITUTE CO., LTD., ZHEJIANG UNIVERSITY, ZHEJIANG RESEARCH INSTITUTE OF CHEMICAL INDUSTRY CO., LTD
72: WU, Ningjie, MA, Zhonghua, WANG, Honglei, XU, Tianming, CHEN, Yun, CAO, Yang, HU, Weiqun, PENG, Weili, WANG, Xiaoyang, ZHENG, Zhiwen, WEI, Youchang
33: CN 31: 202210792944.1 32: 2022-07-05
33: CN 31: 202210805610.3 32: 2022-07-08
33: CN 31: 202210813382.4 32: 2022-07-11
54: FUNGICIDAL COMPOSITIONS AND USES THEREOF IN PREVENTION AND TREATMENT OF FUSARIUM DISEASES OF CROPS
00: -
Disclosed are five fungicidal compositions and uses thereof in prevention and treatment of Fusarium diseases of crops, belonging to the technical field of plant disease prevention and treatment. The active ingredients of the compositions comprise a compound ZJS178 of formula (I) and a triazole fungicide, or a compound ZJS178 and a succinate dehydrogenase inhibitor fungicide, or a compound ZJS178 and a pyrrole fungicide, or a compound ZJS178 and an imidazole fungicide, or a compound ZJS178 and a strobilurin fungicide. The compositions of the present invention have a compounded synergistic effect and no cross-resistance, can significantly improve the fungicidal activity and efficacy, are beneficial for overcoming and delaying the resistance of pathogens, have good crop safety, and meet the requirements of pesticide quantity reduction and efficacy increase.

21: 2024/10024. 22: 2024/12/23. 43: 2025/07/02
51: B65B
71: ANHUI MILANSHI DECORATION MATERIALS CO., LTD.
72: FANG, Chengchen, HUANG, Fang
54: CASE PACKING APPARATUS FOR PACKAGE
00: -
A case packing apparatus for a package, comprising a package conveying unit, a quantitative storage unit, a case conveying unit, and a case packing unit. The package conveying unit is used for conveying packages to the quantitative storage unit for temporary storage; the quantitative storage unit is located on a discharge side of the package conveying unit; the quantitative storage unit is used for temporarily storing quantitative packages; the case conveying unit is located on one side of the quantitative storage unit; the case conveying unit is used for conveying empty cases and the cases into which packages are loaded; and the case packing unit is used for loading the packages on the quantitative storage unit into the cases located on the case conveying unit. Packages are flattened multiple times, so that the packages can be effectively and flatly loaded into cases. Additionally, the present invention can also be applicable to case packing operations of different packaging cases, has a wide range of application, and greatly improves the case packing efficiency and case packing quality of packages.



21: 2025/00013. 22: 2025/01/02. 43: 2025/07/03
51: A01C; A01G; C05G
71: Sichuan Academy of Forestry Sciences, Pingchang Forest Products Development Center
72: YANG, Zhiwu, CHEN, Shanbo, LUO, Hui, WANG, Yongjie, YU, Lingfan, LIU, Haiying, WANG, Lihua, HUANG, Shengjia, CHEN, Wei

54: LARGE BRANCH HARVESTING AND PLANTING METHOD FOR ZANTHOXYLUM SCHINIFOLIUM

00: -

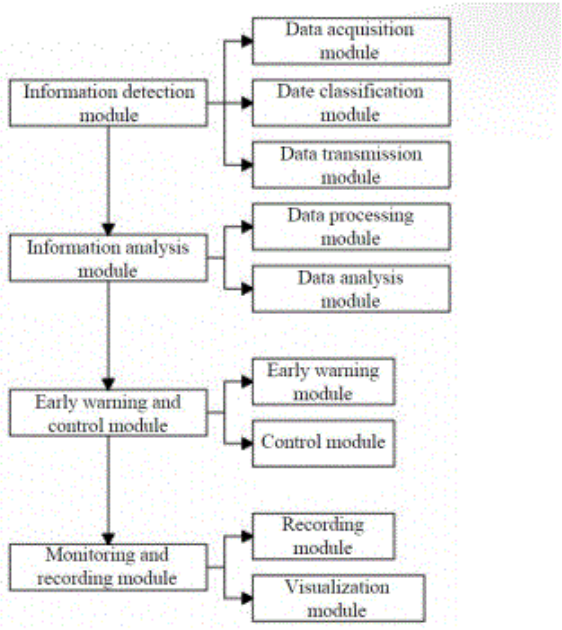
The present invention particularly discloses a large branch harvesting and planting method for Zanthoxylum schinifolium, including: applying a first compound fertilizer to Zanthoxylum schinifolium before and after sprouting; applying a second compound fertilizer after flowering, and spraying a foliar fertilizer; during Zanthoxylum schinifolium harvesting, cutting off all bearing branches of whole Zanthoxylum schinifolium trees from branch bases in a manner of plucking instead of pruning, and retaining several temporary branches on main branches of tree bodies and at each bearing branch base; spraying a protectant to protect trunks of Zanthoxylum schinifolium trees and cuts on all bearing branches, wherein the protectant includes an active slow-release tree smearing preparation, a fungicide and an insecticide; and spraying a herbicide onto land where Zanthoxylum schinifolium is planted. The planting method significantly increases the yield of dried prickly ash, which shows a trend of increasing year by year.

21: 2025/00014. 22: 2025/01/02. 43: 2025/07/03
51: A61D
71: THE AFFILIATED HOSPITAL OF GUIZHOU MEDICAL UNIVERSITY
72: XIONG, Mingsong, XU, Kaya, CUI, Junshuan, SONG, Wenxue, SONG, Jiaquan, CHEN, Guangtang, HE, Longcai, ZHANG, Kun

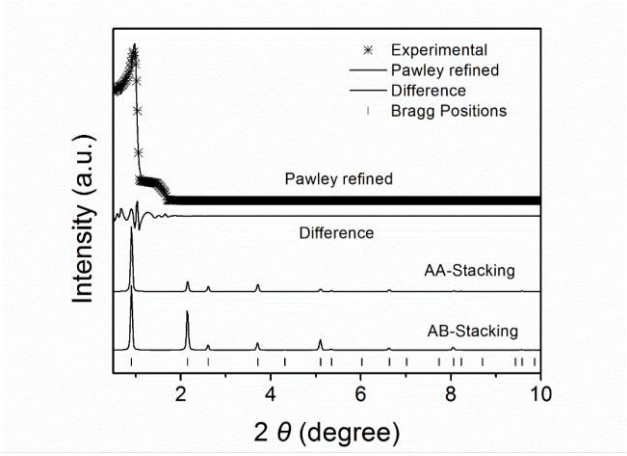
54: MICROINJECTION CONTROL SYSTEM FOR INTRACRANIAL STEREOTACTIC INJECTION OF STEM CELLS INTO SD RATS

00: -

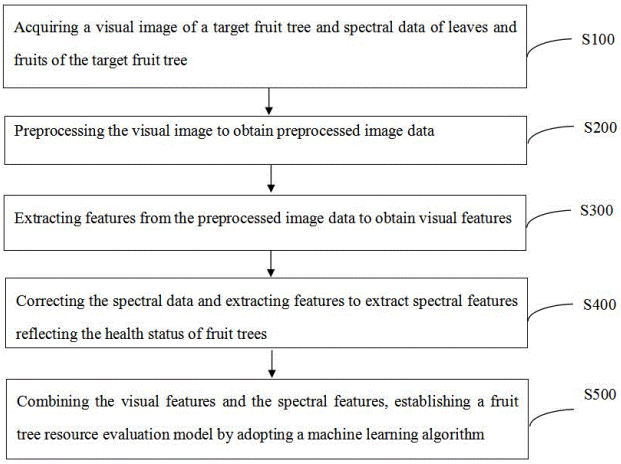
Disclosed is a microinjection control system for the intracranial stereotactic injection of stem cells into SD rats, which includes an information detection module, an information analysis module, an early warning and control module, and a monitoring and recording module. According to the present invention, injection parameters are detected in real time and analyzed, an early warning is given according to an analysis result, and a corresponding control measure is taken, thereby realizing fine management of an injection process. Meanwhile, an injection and control process is monitored and recorded, and a visual interface is provided for an experimenter to understand and evaluate the injection process.



21: 2025/00015. 22: 2025/01/02. 43: 2025/07/14
51: C08G
71: Jinggangshan University
72: HOU Linli, XU Qiaoying, ZENG Keni, ZOU Jiayi, KONG Xiangling, XIN Ruyi
54: CATIONIC COVALENT ORGANIC FRAMEWORK MATERIAL CAPABLE OF ADSORBING FLUOROQUINOLONES ANTIBIOTICS, AND PREPARATION METHOD AND APPLICATION THEREOF
00: -
The invention discloses a cationic covalent organic framework material capable of adsorbing fluoroquinolones antibiotics, and preparation method and application thereof, belongs to the technical field of novel functional materials for environmental adsorption. The cationic covalent organic framework materials (COFs) are prepared from triamine monomers containing pyridine functional groups and dialdehyde monomers containing triazine groups through Schiff base reaction under solvothermal conditions. The precise geometry inside COFs can provide a uniform 1D diffusion channel, and at the same time, rigid nanochannels with spatial confinement effect can also inhibit large-scale dendrite formation. The uniform distribution of adsorption sites and functional groups (triazine group, pyridine group and aromatic group) of COFs makes it play a good role in adsorbing FQs, showing the advantages of high adsorption capacity, fast adsorption rate, good adsorption selectivity and easy recycling. Moreover, the preparation process of COFs is simple and easy to operate, which is beneficial to industrial production.



21: 2025/00016. 22: 2025/01/02. 43: 2025/07/03
51: A01D
71: Shandong Fruit Tree Research Institute
72: Wei Guoqin, Hou Sen, Fu Quanjuan, Zhu Xueliang, XuXia, Wan Jindong
33: CN 31: 2024115398778 32: 2024-10-31
54: METHOD AND SYSTEM FOR EVALUATING FRUIT TREE RESOURCES BASED ON VISION AND SPECTRUM
00: -
The invention provides a method and a system for evaluating fruit tree resources based on vision and spectrum, and the method comprises the following steps: acquiring a visual image of a target fruit tree and spectral data of leaves and fruits of the target fruit tree; preprocessing the visual image to obtain preprocessed image data; extracting features from the preprocessed image data to obtain visual features; correcting the spectral data and extracting features to extract spectral features reflecting the health status of fruit trees; combining the visual features and the spectral features, establishing a fruit tree resource evaluation model by adopting a machine learning algorithm; the fruit tree resource evaluation model is used for comprehensively evaluating the target fruit tree to generate an evaluation report on the health status, fruit quality and pest risk of the target fruit tree. By combining visual image processing and spectral analysis technology, the invention realizes rapid and accurate evaluation of the growth status, fruit quality and diseases and insect pests of fruit trees.



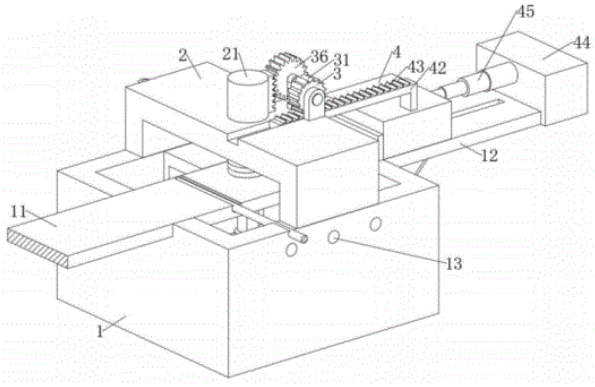
21: 2025/00017. 22: 2025/01/02. 43: 2025/07/03
51: C21D
71: LONGMEN LABORATORY

72: Xiaodong WANG, Shizhong WEI, Chong CHEN, Feng MAO, Cheng ZHANG, Tao JIANG, Liujie XU, Ruxing SHI, Kunming PAN, Baoning YU, Changji WANG, Yichou LIN

54: COOLING DEVICE FOR QUENCHING HEAT TREATMENT OF ALLOY STEEL AND ITS USE METHOD

00: -

The invention discloses a cooling device for quenching heat treatment of alloy steel and its use method, it belongs to the field of metal processing, a cooling device for quenching heat treatment of alloy steel, including a cooling groove, the cooling groove is fixedly connected with a feed plate, a discharge plate and an N-shaped frame, the shaft is fixedly connected with a transmission tooth, the transmission tooth is alternately engaged with the missing tooth gear and the half tooth in the cylinder, the side wall of the mounting column is fixedly connected with a rack meshing with the full gear, the feed plate is equipped with a driving mechanism for driving the rotation of the cylinder, the use method for the cooling device of quenching heat treatment of alloy steel includes placing the workpiece, heating the workpiece and quenching the workpiece, removing the quenched workpiece. The invention enables the workpiece to be automatically transported to the heating coil for heating, and the workpiece after heating can be quenched as the push block moves away, which ensures safety, and the structure is simple, which reduces the cost of the enterprise.

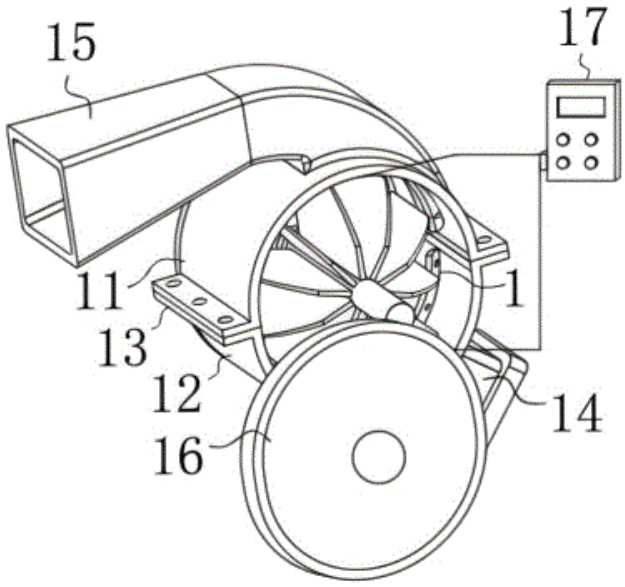


21: 2025/00018. 22: 2025/01/02. 43: 2025/07/03
51: G01M
71: Shenyang Jianzhu University
72: Xiaotian BAI, Hailing LI, Huaitao SHI, Yang ZHOU, Ke ZHANG, Yuhou WU, Xianming SUN
33: CN 31: 2024108030278 32: 2024-06-20

54: FATIGUE LIFE TESTING DEVICE FOR ROTATING MACHINERY STRUCTURE

00: -

A fatigue life testing device for rotating machinery structure is disclosed, which aims to solve the technical problem that it is difficult to detect the fatigue life of rotating machinery structure at present. The structure includes a support ring, the support rings are provided with two sets, an upper shell and a lower shell are fittingly mounted on the outer walls of the support rings of the two sets respectively. In the present invention, by combining the collision mechanism with the counting mechanism, after the fan blade is driven to rotate by the motor, the abutting ball on the concave base can be driven to rotate synchronously; after waiting for the abutting ball and the extrusion block on the positioning base to approach each other, the abutting ball will continuously extrude the extrusion block at one end of the first piston rod, while the extrusion block located at the other end of the first piston rod will extrude the pressure counting sensor, and a signal is transmitted to the controller through the wire; and as the fan blade rotates for a long time, whether the number of knocking per minute is weakened can be compared, so that the fatigue degree of the machinery structure can be determined intuitively, and the machinery does not need to be disassemble and mounted on the test fixture in a large range, this greatly improves the convenience of testing

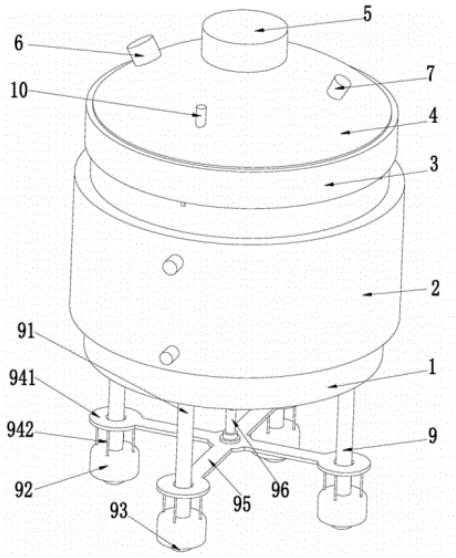


21: 2025/00019. 22: 2025/01/02. 43: 2025/07/03
51: A01G; G05B
71: Suzhou University
72: FU, Yiwen, LI, Lili, SUN, Cailing, XIAO, Min, WANG, Zhangyu, QU, Jiayi, GAN, Yuze, YANG, Min, WEI, Junhao

54: WILD EDIBLE FUNGI PRODUCTION CULTURE TANK

00: -

The present invention discloses a wild edible fungi production culture tank and relates to the technical field of fungi inoculation, including a culture tank body, wherein an opening of the culture tank body is connected to an end cap via a sealing connection mechanism, and an execution stirring mechanism and a cleaning mechanism are arranged on the end cap. According to the present invention, the fungi and the culture medium can be evenly mixed, the tightness of the culture tank is ensured, the culture tank can be cleaned with no need of disassembly and the cleaning efficiency is improved.

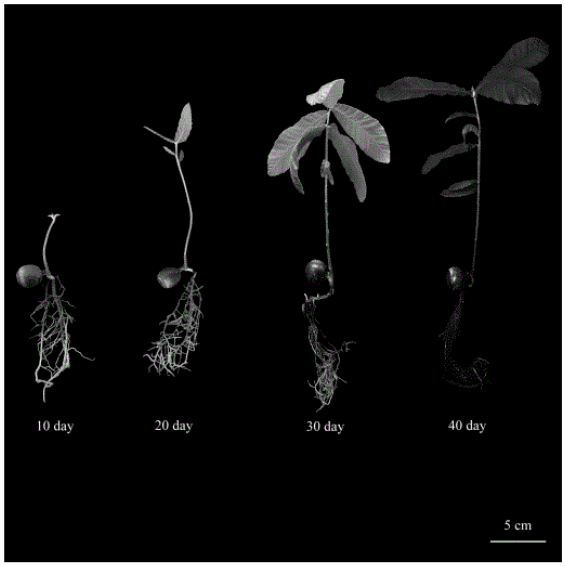


21: 2025/00020. 22: 2025/01/02. 43: 2025/07/03
51: C12N
71: Research Institute of Non-timber Forestry, Chinese Academy of Forestry
72: ZHU, Jingle, YU, Xinran, ZHU, Haiyang, DING, Huanhuan, ZHANG, Yanhua, CHEN, Weiwei, YANG, Cancan, FENG, Yaxin
33: CN 31: 202411703894.0 32: 2024-11-26

54: METHOD FOR GENETIC TRANSFORMATION OF QUERCUS VARIABILIS MEDIATED BY AGROBACTERIUM RHIZOGENES

00: -

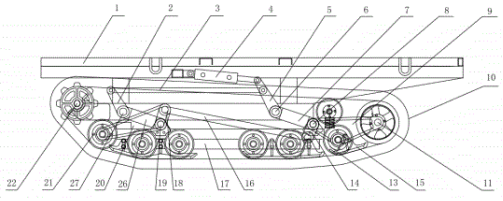
The present invention discloses a method for genetic transformation of Quercus variabilis mediated by Agrobacterium rhizogenes (Ag.rhizogenes). This method involves firstly cultivating Quercus variabilis seedlings from Quercus variabilis seeds, and then excising different parts of the Quercus variabilis seedlings as explants for infection. The Ag.rhizogenes strain (K599) is revived and expanded to prepare an infection solution, with a 35S::Ruby reporter gene on the vector. The explants from different parts are separately infected at the cut site with Ag.rhizogenes and planted in vermiculite substrate. The infected explants are then subjected to dark culture and light culture. Morphological observation and sampling detection are performed on the cultured explants to determine the explants with the best growth status and the corresponding excised parts from the Quercus variabilis seedlings. This invention obtains transgenic hairy roots, providing a foundation for subsequent functional gene mining and gene editing research on Quercus variabilis.



21: 2025/00021. 22: 2025/01/02. 43: 2025/07/03
51: A01D
71: JINHUA UNIVERSITY OF VOCATIONAL TECHNOLOGY
72: XIONG, Yongsen, FANG, Shaohua, WANG, Jinshuang, ZHANG, Hengjing, DING, Zhao, WANG, Zhiming

54: GROUND PRESSURE AND HEIGHT SELF-ADAPTIVE TRACKED MECHANISM

00: -
Disclosed in the present invention is a ground pressure and height self-adaptive tracked mechanism. The mechanism includes a rack, a driving wheel, a first swing rod assembly, a second swing rod assembly, a lifting pull rod, a front bearing wheel, a rear bearing wheel, a rear tensioning wheel, and a track. The present invention can lower the rack on a hard road surface, reduce a length and an area of contact between the track and the ground, reduce traveling resistance power consumption of the track, lower the gravity center of the whole machine and increase the stability of the machine. In a pit or on a soft ground with deep mud, the rack is raised, the length and the area of contact between the track and the ground are increased, and the ground pressure of the track is reduced, such that the whole machine is prevented from sinking.

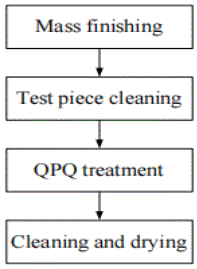


21: 2025/00022. 22: 2025/01/02. 43: 2025/07/03
51: A01H
71: Shandong University
72: ZHENG, Fengying, LIU, Xueqin, QU, Chunfeng
54: IN VITRO CULTURE METHOD FOR ROOTS OF ZOSTERA MARINA L.
00: -
The present invention relates an in vitro culture method for the roots of Zostera marina L. (eelgrass). The method takes an adventitious root primordium of eelgrass as an explant. Healthy eelgrass ramets are brought back to a laboratory in autumn for temporary culturing and are subjected to surface disinfection. Explants are placed in sterilized natural seawater with 100 micromole of Vitamin C and re-pruned, leaving only one node and two internodes close to a shoot apex. The explants are inoculated into a six-well culture plate containing a liquid medium A. The six-well culture plate is cultured at 15 degrees Celsius in the dark. Two weeks later, the root primordia germinate and are transferred to a six-well culture plate containing a liquid medium B for further culturing; 45 days later, the roots could grow to 20 mm. Root induction media are PESI liquid media with organic additives, carbon sources, and phytohormones.

21: 2025/00023. 22: 2025/01/02. 43: 2025/07/03
51: G06T
71: Inner Mongolia University of Science and Technology
72: REN, Lei, ZHANG, Xinfang, YANG, Jichun, ZHOU, Mengcheng
54: FUSION ANALYSIS METHOD FOR SYMMETRY OF FLOW FIELD
00: -
Disclosed is a fusion analysis method for symmetry of a flow field. The fusion analysis method includes: building a physical model of an object to be measured in equal scale; photographing a flow field of the physical model with three particle image velocimeters, and acquiring velocity measurement image data of the three particle image velocimeters; performing noisy point elimination and data verification on the velocity measurement image data based on the three particle image velocimeters, obtaining fused velocity measurement data by means of fusion calculation, and then obtaining quantitative analysis data; and then, performing specific analysis according to symmetry characteristics of different position points and velocity forms of different position points, performing fusion analysis on a plurality of symmetry analysis results by means of a correlation analysis method, and obtaining fusion analysis results of the symmetry of the flow field of the physical model.

21: 2025/00025. 22: 2025/01/02. 43: 2025/07/03
51: C23C
71: Taiyuan University of Technology
72: LI, Xiuhong, YAN, Yuan, WANG, Delong, LI, Wenhui, BAI, Xiaoyun, CHENG, Siyuan, LI, Qihang
33: CN 31: 202410038165.1 32: 2024-01-11
54: METHOD FOR IMPROVING WEAR RESISTANCE OF TITANIUM ALLOY PART
00: -
Disclosed is a method for improving wear resistance of a titanium alloy part, which belongs to the technical field of surface modification of metal materials. The method for improving wear resistance of a titanium alloy part includes: effectively

intervening mass finishing combined with surface cleaning in complex salt bath treatment technology of a titanium alloy workpiece, and improving pretreatment surface quality; performing salt bath nitriding on the treated workpiece at 580 degree Centigrade for 4 h, and then performing salt bath oxidation on the workpiece at 400 degree Centigrade for 20 min; and cleaning and drying the workpiece after the salt bath oxidation.

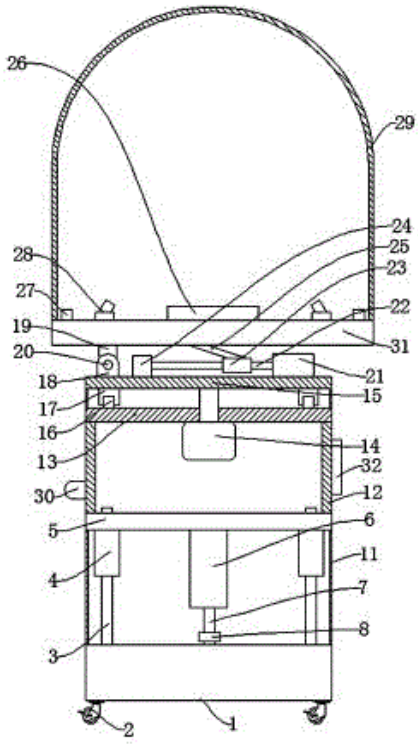


21: 2025/00026. 22: 2025/01/02. 43: 2025/07/14
51: A47F
71: Henan University of Urban Construction
72: SUN Miao, LI Xiaohui, LIANG Danyang, ZHANG Yueyang, RONG Shukun, SUN Chi, WEI Huiqin, LIU Rongji

54: ART DISPLAY FRAME

00: -

The invention discloses an art display frame, which comprises a support base, a lifting servo motor, a rotary servo motor and a tilt servo motor, wherein universal wheels are arranged at four corners of the support base, and guide posts are arranged at four corners above the support base, guide sleeves are arranged on the guide posts, and lifting supports are arranged on the guide sleeves. The beneficial effect is that by setting up the lifting servo motor, lifting screw, and lifting nut, the height of the art display frame can be freely adjusted according to different art display occasions, improving the display effect; the tilt angle of the art display frame can be adjusted by arranging the tilt servo motor, the tilt screw and the tilt nut, which is convenient for displaying the art from multiple angles, and has strong practicability; and by setting up a rotary servo motor and LED spotlights, not only can the art display frame achieve automatic rotation display during art display, but also the illumination of LED spotlights can effectively enhance the display effect.



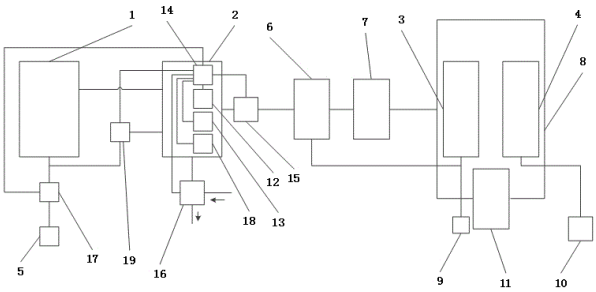
21: 2025/00027. 22: 2025/01/02. 43: 2025/07/14
51: C12M
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: FU Yongmei, ZHANG Wan, JIN Junjie, SUN Hailun, XIA Yuxing, LIU Yiran, HE Jianwei, REN Yifan

54: EFFICIENT GREEN HEATING WATER HEATER SYSTEM BASED ON THE SYNERGISTIC DRIVE OF SOLAR ENERGY AND BIOGAS

00: -

The present invention discloses an efficient green heating water heater system based on the synergistic drive of solar energy and biogas, including a solar collector, a biogas heating subsystem, a hot water storage container, a flue gas heat recovery subsystem, and a waste hot water waste heat recovery subsystem; the hot water outlet end of the solar collector is communicated with a hot water storage container; the water supply inlet of the solar collector is communicated with the water outlet of the tap water pipe; the biogas heating subsystem includes a biogas boiler, a biogas storage container and a biogas digester; the hot water outlet of the biogas boiler is communicated with the hot water storage container, and the biogas inlet of the biogas boiler is communicated with the biogas storage container. The invention recovers the waste heat of

flue gas and wastewater generated in daily life and the heat in the external environment to exchange heat with the fermentation raw materials in the biogas digester, promotes the generation of biogas, realizes continuous solar heating and intermittent supplementary biogas heating, saves energy and reduces the emission of environmental pollutants.

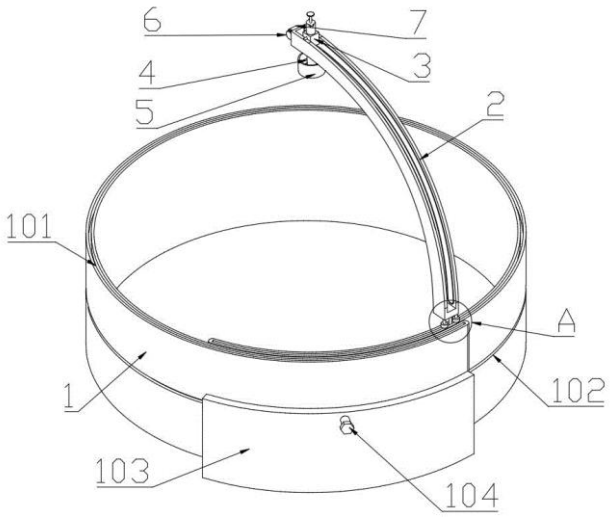


21: 2025/00028. 22: 2025/01/02. 43: 2025/07/03
51: A61B
71: The Third Affiliated Hospital of Guangzhou Medical University
72: Qing Zou, Yanling Liang, Haitao Guan, Haobo Chen, Mingjun Lai, Hengfeng Qiu, Rong Hu, Jianxi Hu

54: A CEREBROVASCULAR INTERVENTIONAL PUNCTURE POSITIONING DEVICE

00: -

The present invention discloses a cerebrovascular interventional puncture positioning device, comprising: a fixing ring and an adjustment ring. The fixing ring is formed by wrapping an elastic thin plate, and the upper end of the thin plate is provided with a sliding groove for slidingly mounting the adjustment ring. The adjustment ring is an arc-shaped plate, and the lower end of the arc-shaped plate is movably connected to the fixing ring. A through slot is provided in the middle of the adjustment ring for mounting a movable block, and guide slots are provided on both side walls of the through slot. The front end of the adjustment ring is rotatably connected to a bundling disc, and a clamping plate is arranged on the outer wall of the adjustment ring at the upper end of the bundling disc. Both sides of the bundling disc are wrapped with pull wires that are connected to the movable block, and a gear is arranged at the upper end of the bundling disc and movably connected to the clamping plate. The middle part of the pull wires is wound around the bundling disc, with both ends respectively installed in the guide slots and connected to both sides of the movable block. A guide hole is provided in the middle of the movable block for installing a puncture needle clamping rod. A limiting mechanism is arranged at the front part of the puncture needle clamping rod to control the puncture needle insertion depth, and the front end of the puncture needle clamping rod is fixedly connected to the puncture needle.



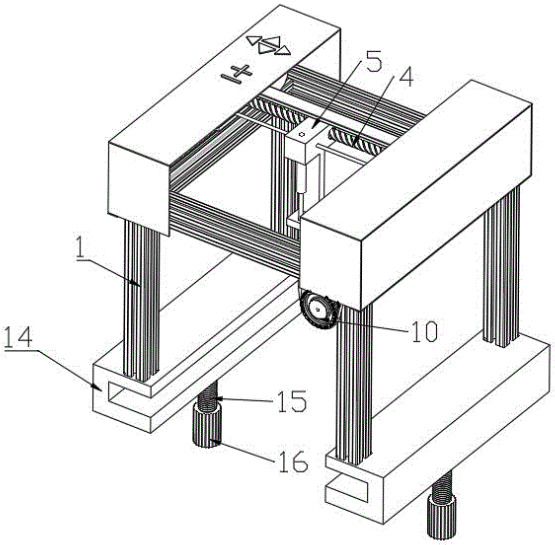
21: 2025/00029. 22: 2025/01/02. 43: 2025/07/03
51: A61B
71: Yichang Central People's Hospital (First Clinical Medical College of Three Gorges University, Central People's Hospital Affiliated to Three Gorges University)
72: Ming Zhan, Xuejun Li

54: THORACENTESIS POSITIONING DEVICE IN RESPIRATORY MEDICINE DEPARTMENT

00: -

A thoracentesis positioning device in respiratory medicine department, comprising base fixing devices and a support frame, a bottom end of the support frame is connected and fixed to the base fixing devices, the support frame is provided with a lateral sliding control device, a longitudinal sliding control device, a telescopic control device, and a puncture needle, the puncture needle is connected below the telescopic control device. In the invention, the lateral sliding control device can adjust the horizontal position of the puncture needle, the longitudinal sliding control device can adjust the longitudinal position of the puncture needle, and the

telescopic control device can achieve the up and down adjustment of the puncture needle. Through the above technical scheme, the puncture needle can be adjusted to any desired position. Compared with manual puncture, this structure allows for automatic adjustment and positioning of the puncture needle as needed, improving the accuracy of the thoracic puncture process, providing more precise control over the puncture depth, bringing a better use effect.

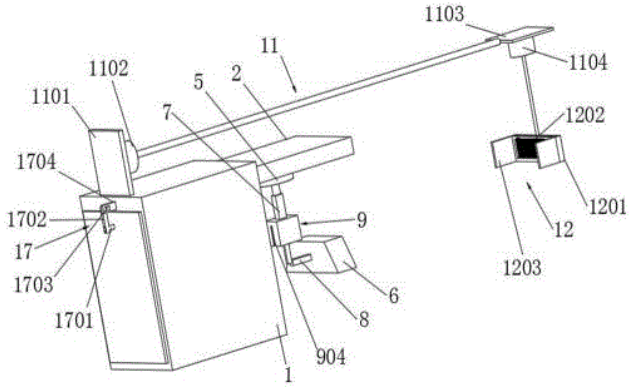


21: 2025/00030. 22: 2025/01/02. 43: 2025/07/14
51: C02F
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: LI Lei, GU Deming, LI Songya, WANG Linpei, YANG Menghan, ZHAO Yanping, SU Zhe, RONG Haoxiang

54: A COLLECTING DEVICE FOR FLOATING SLUDGE EDGE-COLLECTING IN A SEWAGE TREATMENT TANK

00: -

The invention discloses a collecting device for floating sludge edge-collecting in a sewage treatment tank, and belongs to the technical field of sewage treatment. The collecting device for floating sludge edge-collecting in a sewage treatment tank includes a storage box, and further includes: a first support plate is connected with the upper side wall of the storage box; a first cylinder, the output end of which is connected with the first support plate, and the first cylinder is connected with the storage box; a second cylinder is connected to one side of that first supporting plate near the ground, the output end of the second cylinder is connected with a first connecting rod, and one end of the first connecting rod is connected with a rotating component; one side of the collecting basket is connected with the second connecting rod, and one end of the second connecting rod is connected with the rotating component, so as to collect floating sludge in the sewage tank, which is not only convenient to collect but also harmless to human body.



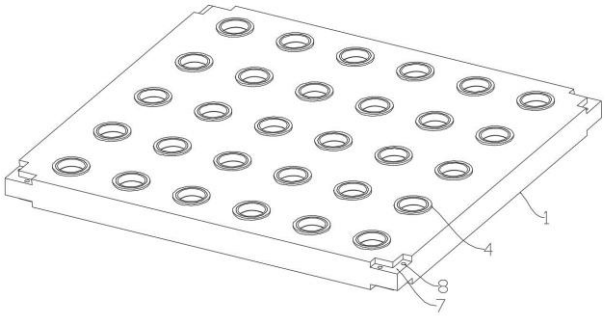
21: 2025/00031. 22: 2025/01/02. 43: 2025/07/03
51: B01D
71: Southwest Forestry University, Yunnan Provincial Academy of Water Resources and Hydropower Sciences, Tonghai County Water Conservancy Bureau, Qilu Lake Management Bureau
72: Haoliang Cheng, Juan Zhu, Wen Jiang, Lei Zhang, Jie Shen, Zhuo Yang

54: LAKE INLET COMPOSITE WETLAND POLLUTANT FILTRATION AND REMOVAL DEVICE AND METHOD

00: -

The invention relates to the field of floating wetland technology, specifically to a composite wetland pollutant filtration and removal device and method for lake inlet areas. The device includes multiple composite fiber floating wetland modules. The surface of each composite fiber floating wetland module is provided with planting openings, and a plug ring is inserted into the interior of the planting opening. A mesh cover is fixed to the bottom end of the plug ring. Both the top and bottom surfaces of the composite fiber floating wetland module are provided with edge grooves at all four corners. Beneficial effects: The lake inlet composite wetland pollutant filtration and removal device and method proposed in this invention utilize composite fiber

floating wetland modules, achieving flexible layout and efficient treatment of the wetland system through modular design. At the same time, the device also adopts a unique structure of plug rings and mesh covers, as well as the connection method of assembling plates and inserting rods, further enhancing the system's stability and durability..

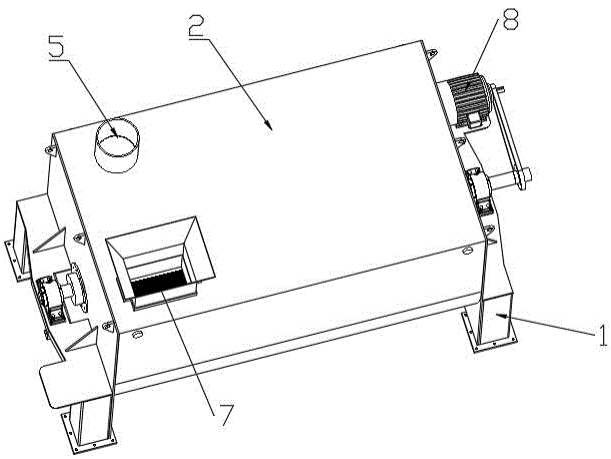


21: 2025/00033. 22: 2025/01/02. 43: 2025/07/03
51: C02F
71: The first people’s hospital of Changde city
72: Jibo Zhang, Chao Wang, Xuejun Li

54: WASTE LIQUID TREATMENT DEVICE FOR HOSPITAL INSPECTION

00: -

A waste liquid treatment device for hospital inspection, comprising a support base; a waste liquid treatment box is fixed on the support base; wherein stirring plates are provided in the waste liquid treatment box; rectangular holes are provided in the stirring plates; a central shaft of the stirring plates extends out of the waste liquid treatment box and is fixed on the support base; a driving device is connected to a protruding end of the central shaft. By adopting multiple structures such as the supporting base, the waste liquid treatment box, the stirring plates, the drug adding port and the waste liquid adding hopper; the invention can remove microorganisms by adding drugs through the drug adding port; stirring the drugs and waste liquid through the stirring plates, so that the drugs and waste liquid can react fully; it can also add waste liquid after hospital examination through the waste liquid adding hopper; since a filter screen is provided at a bottom of the waste liquid adding hopper, impurities in the waste liquid can be removed in time through the filter screen.

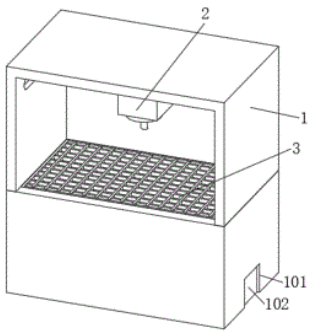


21: 2025/00034. 22: 2025/01/02. 43: 2025/07/03
51: B23Q
71: Taizhou Technician College
72: MOU, Huahong, WU, Lan, JIANG, Yujie, LIU, Huaquan

54: CNC MACHINING WASTE RECYCLING DEVICE WITH SCREENING STRUCTURE

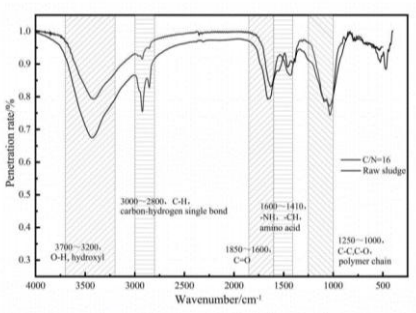
00: -

This invention discloses a CNC machining waste recovery device with a screening structure, pertaining to the field of CNC machining, comprising a housing, wherein the top inner side of the housing is equipped with machining equipment, the bottom inner side of the housing is connected to a placement platform, the outer side of the housing near the first through slot is fixed with a fixed platform, the top surface of the fixed platform is equipped with a centrifugal pump, the intake end of the centrifugal pump is connected to the outlet end of a diversion pipe, and the outlet end of the centrifugal pump is connected to a second collection box.



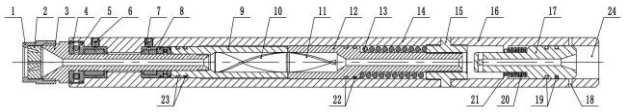
21: 2025/00035. 22: 2025/01/02. 43: 2025/07/03
51: A21D
71: Ji'an College
72: FENG, Wenwen, XIAO, Na, JIN, Yuanbao, ZHOU, Huang, GUO, Qi, LIU, Yuying, LEI, Qian, XIAO, Liqiong, ZHOU, Cong, HU, Wenwen, XIA, Zhongxi, ZHOU, Ningping
33: CN 31: 202411756051.7 32: 2024-12-03
54: EUCOMMIA ULMOIDES LEAF POWDER CAKE AND PREPARATION METHOD THEREOF
00: -
An E. ulmoides leaf powder cake and a preparation method thereof are provided, and belong to the technical field of food development. The E. ulmoides leaf powder cake is prepared from the following ingredients in part by mass: 15 to 20 parts of whole wheat flour, 8 to 12 parts of oat powder, 3 to 5 parts of almond powder, 0.5 to 1.5 parts of konjac powder, 6 to 10 parts of E. ulmoides leaf powder, 6 to 9 parts of erythritol, 0.5 to 1.5 parts of steviol glycoside, 10 to 15 parts of low-fat milk, 28 to 32 parts of egg, 2 to 5 parts of applesauce, 1 to 3 parts of olive oil, 0.5 to 1 part of baking powder, and 0.1 to 0.4 part of salt. The E. ulmoides leaf powder cake has effects of lowering blood glucose and lipids and enhancing exercise performance.

21: 2025/00036. 22: 2025/01/02. 43: 2025/07/03
51: C02F
71: NingboTech University
72: GAO, Fuyan, FU, Jiaqi, SUN, Chenghui, LIU, Shuai
54: EFFECTIVE METHOD FOR REDUCTION, HARMLESSNESS, AND RECYCLING UTILIZATION OF SLUDGE
00: -
The present invention provides an effective method for the reduction, harmlessness, and recycling utilization of sludge, including: (1) mixing sludge with biomass and a coal cinder at a certain ratio; (2) adding methanogens and white rot fungi to the mixture to form a mixture to be fermented; (3) evenly mixing the obtained fermented mixture with water at a certain ratio, then performing closed fermentation at a certain temperature for a certain time to improve physical and chemical properties of the sludge, and precipitating the lower layer to obtain fermented sludge; wherein fermentation liquid in the upper layer is separated by filtration to obtain foliar fertilizer; and (4) blending the fermented sludge with petroleum coke, water, a dispersing agent, and a sulfur-fixing agent to prepare sludge-petroleum coke-slurry, and a dosage ratio of the fermented sludge to the petroleum coke, the water, the dispersing agent, and the sulfur-fixing agent being 10:30:10:0.1:0.1.

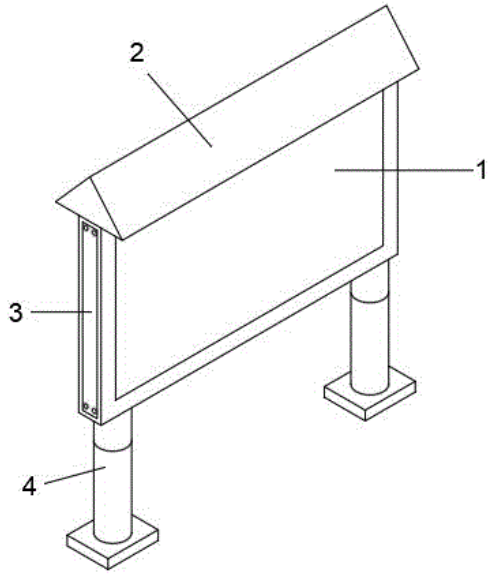


21: 2025/00037. 22: 2025/01/02. 43: 2025/07/03
51: B24C
71: HENAN POLYTECHNIC UNIVERSITY
72: ZAI, penghui, YUAN, Ruifu, WANG, Hongqi, FAN, Junkai, LIU, Zhenpeng
54: PRESSURE CONTROL-BASED ABRASIVE WATER JET DRILLING AND SLOTTING INTEGRATED DEVICE
00: -
The present invention relates to the technical filed of mining engineering construction, and provides a pressure control-based abrasive water jet drilling and slotting integrated device, which comprises a nozzle cap, a combined sprinkler, a mandrel, a bearing cap, a first needle roller thrust combined ball bearing, a first bearing top wire, a second bearing top wire, a second needle roller thrust combined ball bearing, a rotating ring set, a turbine blade, a guide vane, a stationary ring set, a spring, a drilling housing, a connector, a slotting housing, a high and low pressure changeover valve, a slotting nozzle, a first sealing ring, a disc spring, a second sealing ring, a third sealing ring, a fourth sealing ring, and a

liquid inlet. The device of the present invention has a simple and compact design structure, few equipment devices involved, low failure rate, and easy maintenance. By using the device of the present invention, free conversion of boring and slotting is realized by means of water pressure control, the construction process is simpler and the operation of equipment is easier, thus saving the construction time, improving the efficiency of construction and the safety of construction operation, and reducing the construction cost.

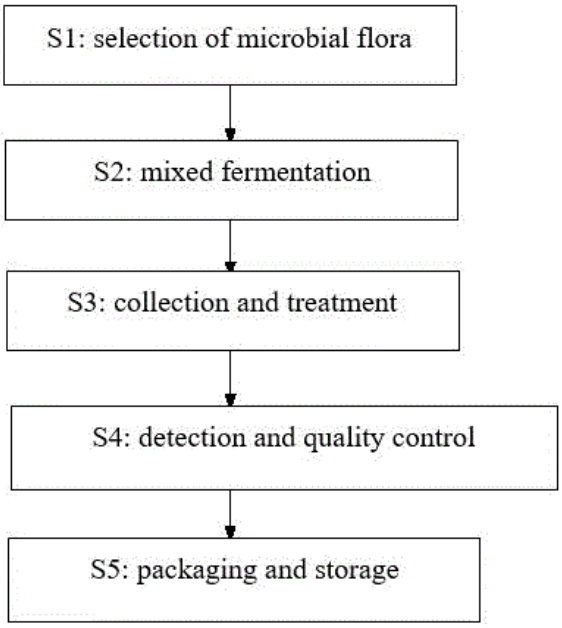


21: 2025/00038. 22: 2025/01/02. 43: 2025/07/03
51: G09B
71: Ji'an College
72: Li Yajuan, Liu Hong, Wei Hushen, Zhang Xiaohui, Zhu Yuanning, Tang Jiaye, Wang Xiaohuan
54: SCENE DISPLAY DEVICE FOR TOURISM
00: -
The present invention discloses a scene display device for tourism management, including a display board, a fixing board and supporting columns. A disassembly plate is movably connected to one end of the display board, the fixing board is fixedly connected to one side of the disassembly plate, L-shaped supporting blocks are fixedly connected to two sides of a front and rear bottom end of the fixing board, groove plates are inserted on two sides above the fixing board, springs are fixedly connected to inner sides of the groove plates, and clamping plates are fixedly connected to ends of the springs. Supporting cylinders are fixedly connected to two sides of a bottom end of the display board, supporting rods are fixedly connected to bottom ends of interiors of the supporting cylinders, and internal threads are disposed at interiors of the supporting rods. The supporting cylinders, the supporting rods, the internal threads and driving screws are arranged in the present invention. When driving motors rotate, the driving screws are driven to rotate. Through thread matching of the driving screws and the internal threads, the supporting rods can be supported and jacked up. It is convenient to freely adjust required height of the display board.

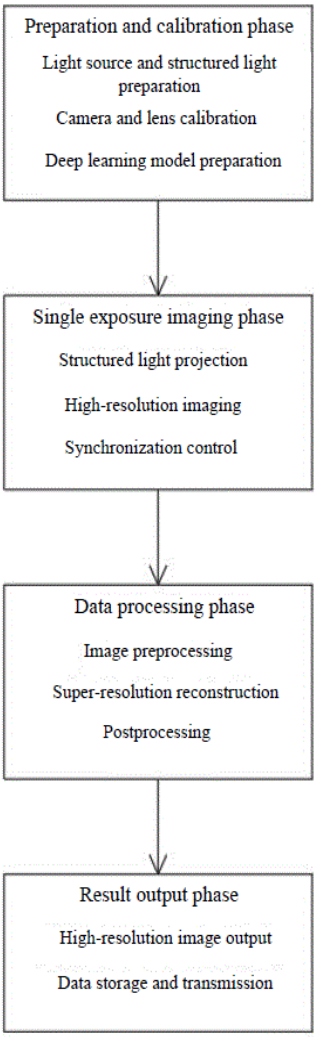


21: 2025/00039. 22: 2025/01/02. 43: 2025/07/03
51: C12N
71: Suzhou University
72: Xu Lisheng, Wu Furu
54: CELLULOSE-DEGRADING COMPOUND MICROBIAL FLORA PREPARATION AND ITS APPLICATION IN STRAW DEGRADATION
00: -
The present invention provides a cellulose-degrading compound microbial flora preparation, falling within the technical field of biological flora preparations. The compound microbial flora preparation of the present invention is a compound microbial flora including Bacillus, Paenibacillus, Pseudomonas, Clostridium, Cellulomonas, Ruminococcus, Trichoderma, Phanerochaete chrysosporium, and Actinomycetes. The compound microbial flora preparation is prepared through the following steps: S1: selection of microbial flora; S2: mixed fermentation; S3: collection and treatment; S4: detection and quality control; and S5: packaging and storage. The compound microbial flora preparation may construct a dominant cellulose-degrading microbial system with mutually promoted growth and complementary enzyme systems by rationally proportioning the bacteria, thereby improving the degradation efficiency and effect on crop straws. By controlling the temperature and pH value in the fermentation process of each bacterium,

the microorganisms may be kept in a suitable growth environment, which is conducive to the growth of microorganisms and the exertion of enzyme activity.

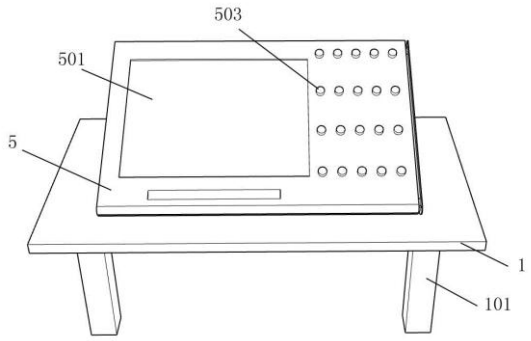


21: 2025/00040. 22: 2025/01/02. 43: 2025/07/03
51: G06T
71: Xinyu University
72: Cheng Xiaoyan, Dang Guoqing, Sun Yanping, Peng Xiaobao, Fu Kai, Zou Bin
54: SINGLE EXPOSURE SUPER-RESOLUTION IMAGING METHOD AND DEVICE BASED ON STRUCTURED LIGHT AND DEEP LEARNING
00: -
Disclosed are a single exposure super-resolution imaging method and device based on structured light and deep learning in the present invention, including the following steps: preparation and calibration phase, preparing light source and structured light, and using a digital micro-mirror device to generate a complex coding structured light mode; and in the present invention, through fast single exposure, high-resolution imaging, flexible structured light generation, efficient control and data processing, optimized thermal management, wide application prospect and system integration and optimization, the imaging time is reduced to improve efficiency, structured light mode and synchronous control ensure high precision and detail capture of image, and the application of deep learning model significantly improve the resolution and quality of the image, and hardware accelerators are used for real-time processing to meet real-time application requirements, while supporting multiple output formats and interfaces, which is convenient for data storage and transmission, improving the convenience and security of data management, and significantly improving the imaging quality and efficiency to meet various complex and demanding imaging requirements.

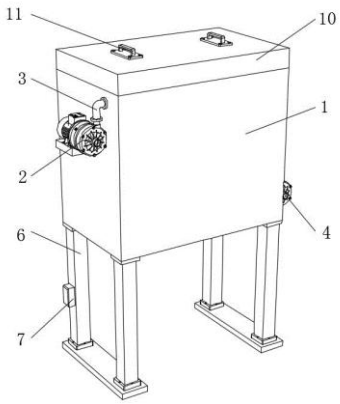


21: 2025/00041. 22: 2025/01/02. 43: 2025/07/03
51: G09B
71: Xuzhou University of Technology
72: Zhan Shaoxia, Peng Juan
54: DEVICE FOR ENGLISH TRANSLATION PRACTICE
00: -
Disclosed is a device for English translation practice, falling within the technical filed of English teaching tools. The device includes a worktable. Four corners

of a front of a bottom of the worktable are fixedly connected to supporting legs; one side of the front of a top of the worktable is movably connected to a servo motor, and a front of the other side of the servo motor is fixedly connected to a transmission rod; and two sides of the front of the top of the worktable are fixedly connected to mounting sleeves, tops of outer surfaces of the mounting sleeves are movably connected to top blocks, fronts of tops of the top blocks are fixedly connected to a learning board, one side of a front of a top of the learning board is fixedly connected to a touch screen, and a lower end of the top of the learning board is disposed with a pen groove. According to the present invention, it is conducive to driving the top blocks to move upwards through the movable rods, so that a pitch angle of the worktable can be finally adjusted, it is convenient for users to adjust the angle of the worktable flexibly according to their own needs, so that users can get a good experience, and meanwhile, the pressure of leaning forward is reduced to protect the waist and cervical vertebra.

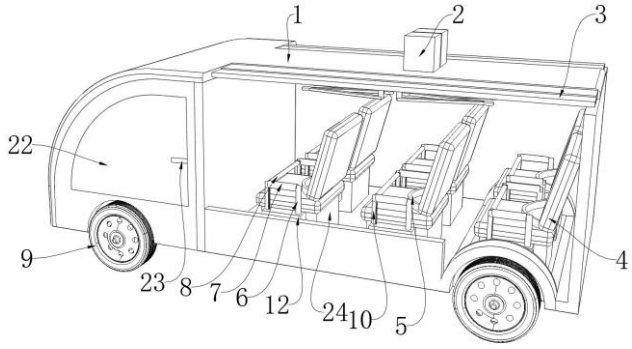


21: 2025/00042. 22: 2025/01/02. 43: 2025/07/03
51: E21F
71: Suzhou University
72: Ma Jie, Ding Diandian, Zhang Haitao, Chen Song, Feng Songbao, Gong Wei, Zhang Jun
54: AUXILIARY DRAINAGE DEVICE FOR WATER PREVENTION AND CONTROL IN COAL MINE CONSTRUCTION AND DRAINAGE METHOD THEREFOR
00: -
Disclosed are an auxiliary drainage device for water prevention and control in coal mine construction and a drainage method therefor. The auxiliary drainage device includes a drainage tank. One end of the drainage tank is fixedly mounted with a water suction pump, and a top end of the water suction pump is fixedly mounted with a water inlet pipe communicated with the drainage tank. One end of the drainage tank opposite to the water suction pump is fixedly mounted with a water extraction pump, and a top end of the water extraction pump is fixedly mounted with a drainage pipe communicated with the drainage tank. A bottom end of the drainage tank is symmetrically and fixedly arranged with a supporting rod. In the present invention, coal cinder in accumulated water can be filtered through a grid, a coarse filter screen plate and a fine filter screen plate, reducing the clogging occurred in the water extraction pump and the drainage pipe. An anti-clogging assembly can drive a cleaning brush plate at a top end of the coarse filter screen plate to slide, reducing the clogging occurred in the coarse filter screen plate. A cam symmetrically arranged at a periphery of the rotating shaft can drive the fine filter screen plate to shake up and down, reducing the clogging occurred in the fine filter screen plate during filtering the coal cinder from the accumulated water.



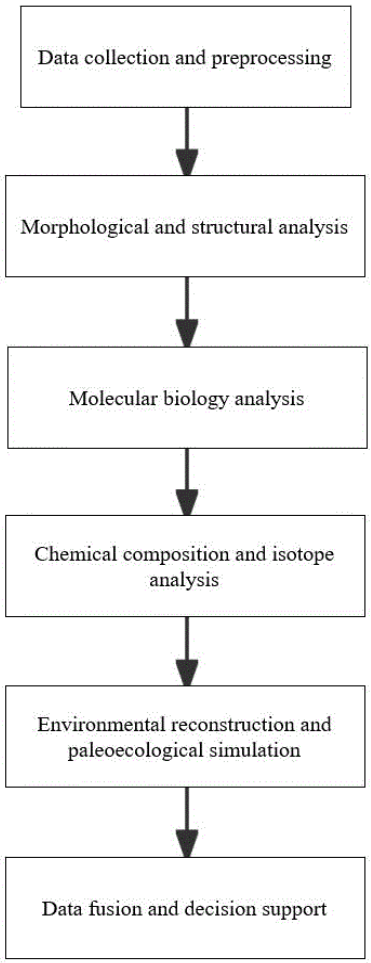
21: 2025/00043. 22: 2025/01/02. 43: 2025/07/04
51: B62D
71: Ji'an College
72: Liu Hong, Li Yajuan, Tang Wenbin, Wang Xiaohuan, Liu Yufei, Wei Hushen, Tang Jiaye, Yuan Shenmei, Liu Lifeng, Zhang Mingshan
54: PROTECTIVE STRUCTURE FOR A TOURIST SIGHTSEEING VEHICLE
00: -
The present invention provides a protective structure for a tourist sightseeing vehicle, including a vehicle frame. Two ends of a top of the vehicle frame are fixedly connected to first motors, output ends of the

first motors are fixedly connected to first fixing rods, middles of the first fixing rods are fixedly connected to first gears, and bottoms of outer walls of the first fixing rods are fixedly connected to first telescopic frames. In the present invention, the height of guardrails is precisely and flexibly adjusted through components such as motors, locking the position stably and automatically. By buffering with rubber pads, injuries are reduced, which is convenient to adjust and relieve fatigue, and the riding comfort and safety of sightseeing bus are comprehensively improved.



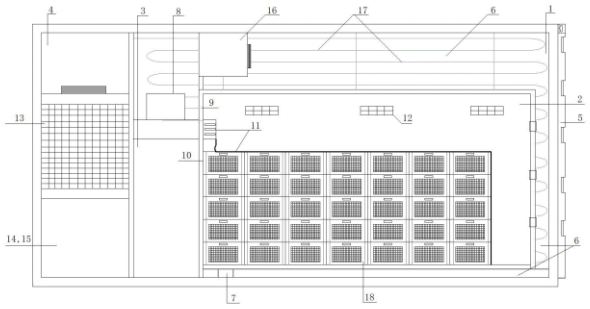
21: 2025/00044. 22: 2025/01/02. 43: 2025/07/04
51: G01V
71: PetroChina Company Limited
72: Wen Zhixin, Chen Ruiyin
54: COMBINED PALEONTOLOGICAL IDENTIFICATION METHOD FOR PALEO-WATER DEPTH
00: -

The present invention provides a combined paleontological identification method for paleo-water depth, including: data collection and preprocessing, integrating multi-source data including fossil samples, geological records, paleoclimate data and biological community data, establishing a genus-species coupling database and a shape, size and structure coupling database, and automating the processing and standardizing a large amount of data by using machine learning algorithms and image processing techniques; morphological and structural analysis, reconstructing the three-dimensional morphology of fossils by utilizing high-resolution computed tomography (CT) scanning and three-dimensional (3D) printing technologies, and automatically extracting and analyzing the morphological features of fossils through computer vision and machine learning algorithms. In the present invention, comprehensive paleontological identification results are provided by integrating multiple analysis methods. By establishing the genus-species coupling database and the shape, size and structure coupling database, the paleo-water depth of paleontological fossils may be identified more efficiently. Moreover, the efficiency of data processing and analysis is improved by utilizing machine learning and automation technologies. And through multiple verifications and cross-validations, the accuracy and reliability of the identification results are ensured.



21: 2025/00045. 22: 2025/01/02. 43: 2025/07/21
51: A23B
71: Shanxi Agricultural University
72: Jiao Xuan, Li Chao, Zhang Lixin
54: JACKET-TYPE MOBILE DIFFERENTIAL PRESSURE PRECOOLING APPARATUS FOR FRUIT AND VEGETABLES
00: -

The present invention relates to the technical field of fruit and vegetables precooling, and in particular to a jacket-type mobile differential pressure precooling apparatus for fruit and vegetables, which mainly includes a thermal insulation box body, a differential pressure precooling box body and a refrigeration system. The differential pressure precooling box body is mounted in the thermal insulation box body in an embedded manner and used for accommodating and precooling fruit and vegetables, and an air interlayer between the thermal insulation box and the precooling box body is taken as a cold air jacket; evaporators of the refrigeration system are disposed in the cold air jacket for refrigeration, and cold energy is conducted through metal walls of the box body, so as to achieve uniform cooling of the differential pressure precooling box body. According to the present invention, super cooled air blown out by the evaporators is prevented from directly contacting fruit and vegetables, so that freezing injuries and drying losses are reduced, and the stability and uniformity of the temperature in the box body are improved, thereby increasing the working efficiency and a precooling effect of the mobile precooling apparatus.

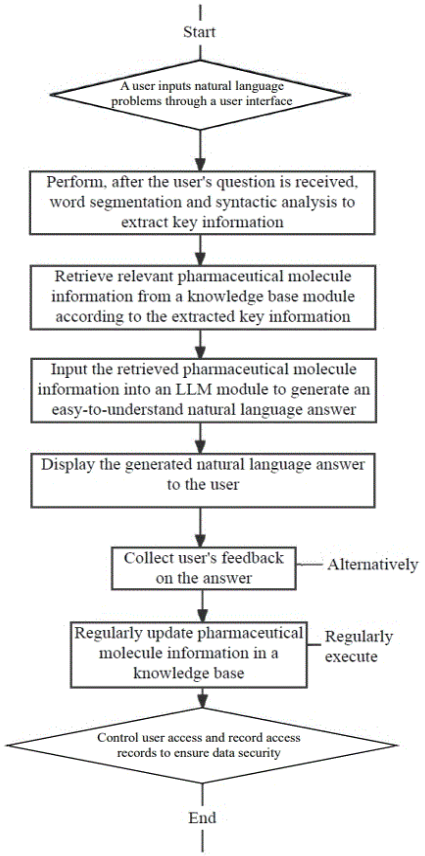


21: 2025/00046. 22: 2025/01/02. 43: 2025/07/04
51: G06F
71: Zunyi Normal University, ZNU
72: Wang Qian, Ouyang Aijia, Liu Yanmin, Huang Chuanteng, Zeng Qingyu

54: PHARMACEUTICAL MOLECULE KNOWLEDGE INTERACTION SYSTEM BASED ON KNOWLEDGE BASE AND LARGE LANGUAGE MODEL

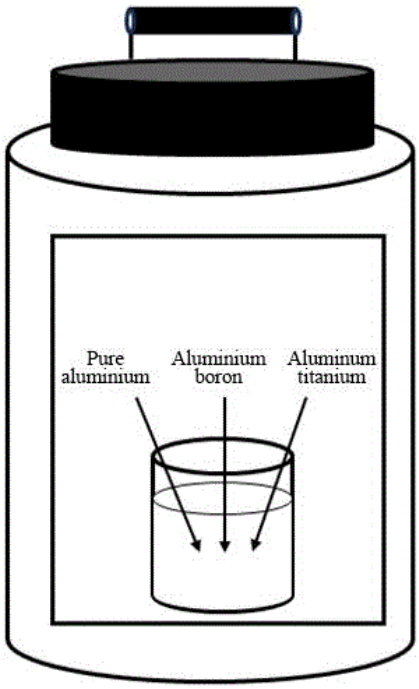
00: -

The present invention provides a pharmaceutical molecule knowledge interaction system based on a knowledge base and a large language model (LLM), falling within the technical field of medicinal chemistry and artificial intelligence (AI). The system includes a knowledge base module, configured to store data related to pharmaceutical molecules, the knowledge base module including but not limited to chemical structures, biological activity, pharmacological actions and side effects of pharmaceuticals; and an LLM module, configured to process natural language input, and retrieve relevant pharmaceutical molecule information from the knowledge base module according to the input, to generate easy-to-understand natural language output. By integrating a pharmaceutical chemical structure database, a biological activity database, a pharmacological action database and a side effect database, users can query comprehensive pharmaceutical molecule information through a platform, avoiding the complexity of querying multiple databases separately, reducing the possibility of information omission and improving work efficiency.



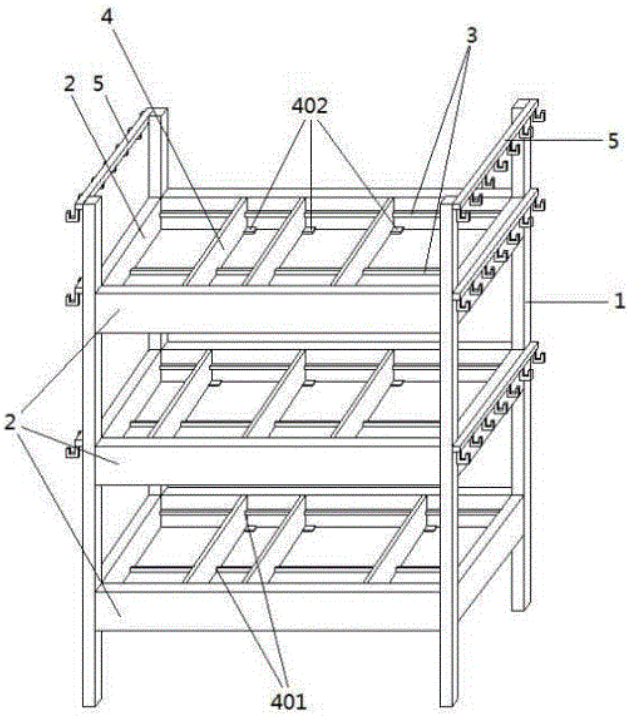
21: 2025/00047. 22: 2025/01/02. 43: 2025/07/04
51: C01B

71: Kunming University of Science and Technology, China Aluminum Foil (Yunnan) Co., Ltd.
72: Xiumin Chen, Wei Liu, Jie Zhou, Enhao Zhang, Huapeng Wu, Ruijiao Jia, Jichang Kang, Pengju Liu, Liangliang Gu, Yuanyuan Chen, Kangming Wu, Qiaoyuan Du, Yan Feng, Ronggang Sun, Caiqing Wang, Linfei Li
33: CN 31: 202411896415.1 32: 2024-12-20
54: A PREPARATION METHOD OF BORON NANOMETER MATERIAL
00: -
The invention discloses a preparation method of boron nanometer material, which relates to the technical field of metallurgy and chemical industry. The method of the invention uses aluminum-boron, aluminum-titanium intermediate alloy and pure aluminum, and after high temperature melting reaction in a melting furnace, boron nanometer materials can be obtained by acid leaching in the alloy system; The raw materials used in the invention are aluminum-boron, aluminum-titanium intermediate alloy and pure aluminum commonly used in industry, which are cheap and easy to obtain; The synthesized boron nanometer materials have high purity and standardized morphology, including tubular, sheet, cage and angular forms. The preparation method is non-toxic and can be used for mass industrial production. Due to their unique physical and chemical properties, boron nanometer materials show extensive application potential in many fields such as reinforced composites, thermal management, radiation shielding, biomedicine, energy storage, high-temperature structural materials and optical applications.

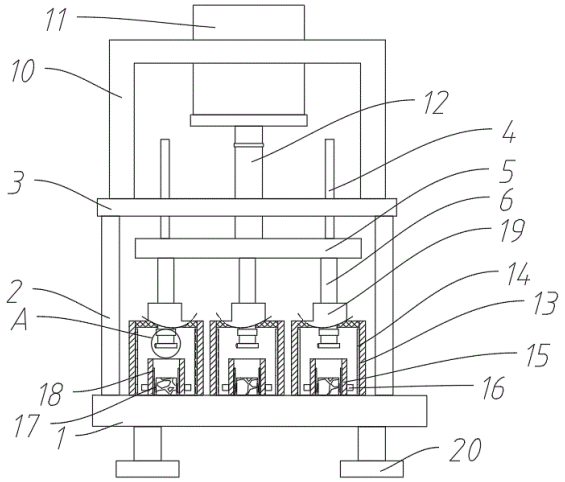


21: 2025/00048. 22: 2025/01/02. 43: 2025/07/14
51: A47B
71: Jiaxing Vocational & Technical College
72: MENG Weiyang
54: MULTIFUNCTIONAL SHELF
00: -
The invention relates to the field of smart homes, in particular to a multifunctional shelf, which comprises a leg and a multi-layer storage box with an open top, wherein the storage box has at least one layer, the front and rear inner side walls and the center of the bottom of the storage box are provided with strip-shaped slide rails along the length of the storage box, and a high-elastic silica gel partition is slidably connected in the storage box along the width direction of the storage box; the high-elastic silica gel partition is provided with a slide rail groove at the position corresponding to the slide rail, and the bottom of the left and right sides of the high-elastic silica gel partition is fixedly provided with a limit plate, where the limit plate is horizontally arranged and perpendicular to the high-elastic silica gel partition, and the legs are fixed at the four corners of the storage box, and the hook rods are fixed on the legs at the left and right sides. The slide rail cooperates with the high-elastic silica gel partition to distribute the space reasonably, which greatly increases the space utilization rate of the shelf. At

the same time, the high-elastic silica gel partition is convenient for users to disassemble and assemble. The setting of the limit block at the bottom of the high-elastic silica gel partition can ensure that the high-elastic silica gel partition stays vertical in the storage box.

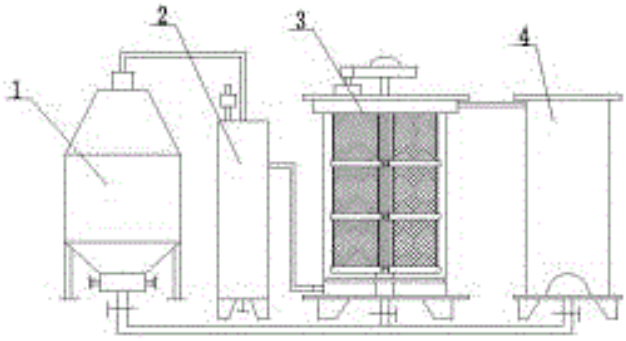


21: 2025/00049. 22: 2025/01/02. 43: 2025/07/14
51: G01N
71: LUDONG UNIVERSITY
72: ZHOU Hong, CHU Shiqin, ZHOU Jianbo
54: EXPERIMENTAL EQUIPMENT FOR MEASURING ROCK MECHANICAL PROPERTIES
00: -
The invention belongs to the technical field of rock mechanics experimental equipment, in particular to experimental equipment for measuring rock mechanical properties, which comprises a base, wherein the top end of the base is provided with a plurality of pressure chambers, and the top ends of the pressure chambers are slidably connected with pressurizing pieces, and the pressurizing pieces are provided with a pressure sensor and a temperature sensor; a circumferential pressurizing assembly and a heating assembly for circumferentially pressurizing a sample stone are arranged in the pressure chambers, and the circumferential pressurizing assembly and the pressurizing pieces are coaxially arranged; a loading device is in transmission fit on the pressurizing part, and the loading device is provided with a microcontroller, and the pressure sensor, the temperature sensor, the heating component, the circumferential pressurizing component and the loading device are all electrically connected with the microcontroller. According to the invention, a plurality of groups of sample stones can be synchronously tested, and the waiting time for changing the sample stones and cooling the pressure chamber is not needed, so that the experimental efficiency is improved.



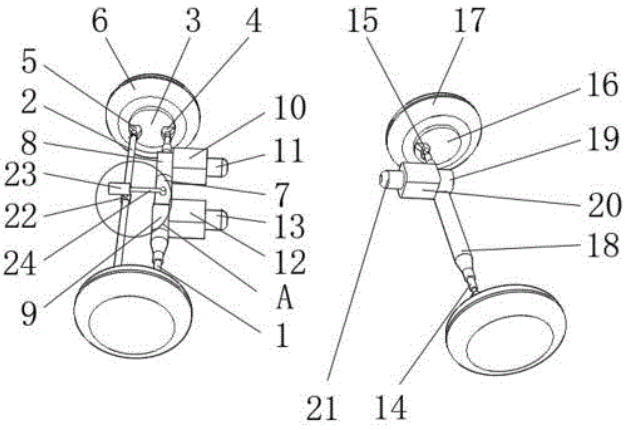
21: 2025/00050. 22: 2025/01/02. 43: 2025/07/14
51: A01G
71: Heilongjiang River Fisheries Research Institute, Chinese Academy of Fishery Sciences
72: XU Gefeng, HUANG Tianqing, GU Wei, GE Kaibo, WANG Gaochao
54: SYSTEM AND METHOD OF LARGE-SCALE BREEDING OF USSURI CISCO FRIES
00: -
System and method of large-scale breeding of Ussuri cisco fries. Normally, fish in nature have a reproductive survival rate of less than 10%. The invention includes: the large-scale breeding system of Ussuri cisco fries consists of a set of breeding and culture systems set in parallel, the breeding culture system includes a Float type biological filter (1), an oxygen aeration separator (2), a seedling breeder (3) and a seedling incubator (4), the seedling breeder includes a shell 8, the shell is provided with a vertically arranged rotating shaft 14, the inner lower end of the shell is provided with a water distribution tray 6, four groups of rotating racks 17

are fixed on the circumference of the rotating shaft, each group of the rotating frame is composed of a group of fixed plate 18 arranged from top to bottom, and the rotating frame is arranged between two adjacent fixed plates with an egg bearing plate 20. The invention is used for large-scale breeding of Ussuri cisco fries.



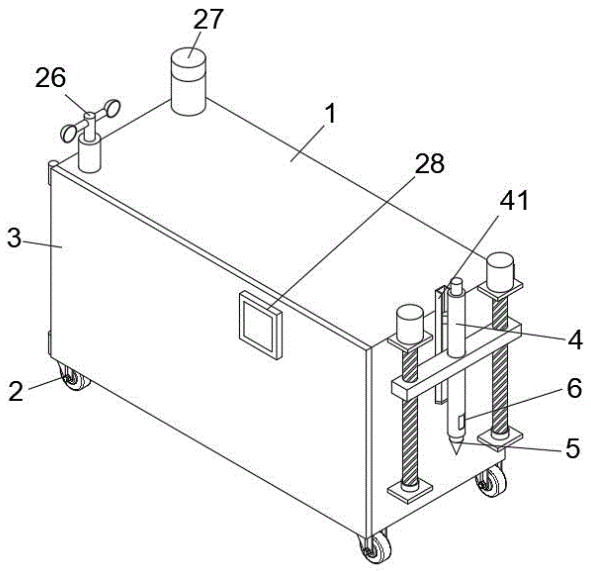
21: 2025/00052. 22: 2025/01/02. 43: 2025/07/14
51: B62D
71: Jiaxing Vocational & Technical College
72: CHEN Yuyi
54: A MULTI-AXLE COOPERATIVE STEERING DEVICE APPLIED TO NEW ENERGY VEHICLES
00: -

The invention provides a multi-axle cooperative steering device applied to new energy vehicle, and relates to the technical field of new energy vehicles. The multi-axle cooperative steering device applied to new energy vehicles includes a front-wheel steering mechanism and a rear-wheel steering mechanism, where the front-wheel steering mechanism includes a first transmission rod and a connecting rod; two ends of the first transmission rod are respectively rotatably connected to one end of a first stress angle; two ends of the connecting rod are respectively rotatably connected to one end of a second stress angle; the other ends of the first stress angle and the second stress angle are respectively fixedly connected to one end of a first knuckle; and the other end of the first knuckle is respectively rotatably connected to a front wheel hub. By setting the front wheel steering mechanism and the rear wheel steering mechanism at the same time, when the front wheel is steering, the rear wheel will assist in steering in the same direction or in the reverse direction according to the driving speed, which improves the operational stability of the vehicle when it is driving at high speed or under the action of lateral wind, reduces the turning radius when the vehicle is steering at low speed, and thus improves the portability and parking agility of the vehicle when it is steering at low speed.



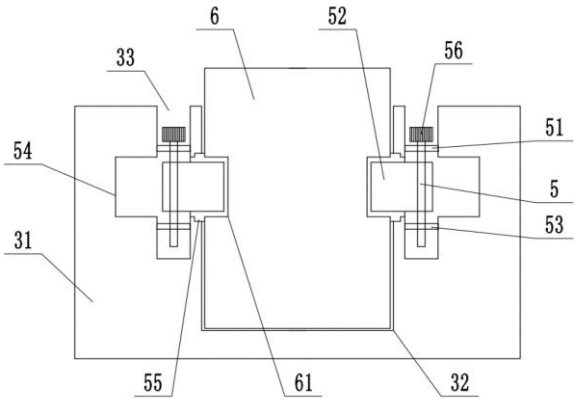
21: 2025/00053. 22: 2025/01/02. 43: 2025/07/07
51: G01N
71: Shenyang Agricultural University
72: Yanfeng Jia, Haotian Yang, Renming Ma, Haoming Fan, Zhulin Li, Tianqi Liu, Shoujia Su
33: CN 31: 202410170230.6 32: 2024-02-06
54: WATER AND SOIL CONSERVATION CONTINUOUS SAMPLE DEVICE
00: -

The present invention discloses a water and soil conservation continuous sample device, the bottom surface of the sample storage box is fixedly installed with universal wheels, and one side of the sample storage box is provided with a sealing plate, which is connected to the sample storage box through hinges. One side of the sample storage box is provided with a sample tube, and the bottom surface of the sample tube is provided with a drill bit; By setting up a rotating rod, the sample tube on one side of the sample box samples the soil in the area. After the sampled soil enters the sample tube, the first rotating motor is started, which drives the rotating rod to rotate. The external hinge blades of the rotating rod drive the soil sample to rise to the sample outlet tube, then, different soil samples can continue to be collected, eliminating the need for staff to remove the sampled soil from the sample tube. It can be placed outdoors for unmanned continuous sample work, allowing staff to perform other technical tasks and improving the efficiency of human resource utilization.



21: 2025/00054. 22: 2025/01/02. 43: 2025/07/14
51: H01M
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: WANG Shuai, NIU Zhehui, ZHANG Xinhui, ZHAO Xingtao
54: COLUMN AIR CATHODE BIOMASS FUEL CELL AND PREPARATION METHOD THEREOF
00: -
The invention provides a column air cathode biomass fuel cell and preparation method thereof, belongs to the technical field of fuel cell. The column air cathode biomass fuel cell includes a power generation tank, electrolyte, a cathode material and an anode material, the power generation tank is a cylindrical power generation tank with an open single end, the anode material is foamed nickel with a catalytic layer coated on one side, and the cathode material is foamed nickel with a diffusion layer and a catalytic layer coated on both sides respectively. The invention uses foamed nickel as cathode and anode current collector, which has obvious price advantage compared with carbon fiber cloth or carbon paper used for air electrode of traditional fuel cell. The column air cathode biomass fuel cell is simple to operate, and there is no risk of electrolyte leakage, and the cathode side is in direct contact with air, which greatly improves oxygen reduction kinetics and promotes the improvement of battery performance.

21: 2025/00056. 22: 2025/01/02. 43: 2025/07/07
51: E04F
71: Shijiazhuang Tiedao University, HEBEI WATER CONSERVANCY ENGINEERING BUREAU GROUP LIMITED
72: ZHANG, Liting, JIN, Zhonglei, GAO, Jie, ZHANG, Bo, GENG, Xinxin, WANG, Wenjun, JIN, Suxian, ZHANG, Shaoxiong, ZHANG, Shuai, MENG, Xiangzhao, CUI, Kaifei, REN, Bingxin, NIE, Chao, CUI, Song, WANG, Junjie, LI, Huimin
54: FLOOD CONTROL WATER CONSERVANCY DAM AND AUXILIARY CONSTRUCTION DEVICE THEREFOR
00: -
Disclosed are a flood control water conservancy dam and an auxiliary construction device therefor. The flood control water conservancy dam includes a dam body. A track is arranged at the dam body, and a plurality of groups of protective assemblies are arranged on the dam body. The protective assemblies include embedded units and protective rods, and the protective rods are provided with locking grooves. The embedded units include embedded barrels, the embedded barrels are provided with mounting grooves in contact with the protective rods, and the embedded barrels are provided with a plurality of adjusting grooves. Upper bearings, limiting cams and lower bearings are sleeved on adjusting shafts. The adjusting grooves are provided with avoidance grooves and through holes, the limiting cams can rotate along with the adjusting shafts, and protruding ends of the limiting cams can rotate to penetrate the through holes and extend into the adjusting grooves.

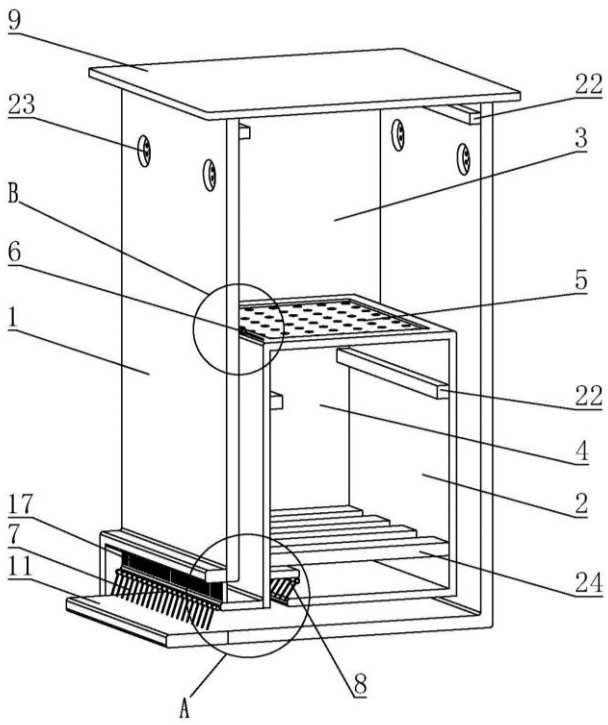


21: 2025/00057. 22: 2025/01/02. 43: 2025/07/07
51: A01K
71: Jinggangshan University
72: Qitao Su, Zhixuan Du, Bing Zhou, Xinyi Huang

54: CONTROL DEVICE FOR HONEY COLLECTION OF CAMELLIA OLEIFERA POLLINATION BEES

00: -

The present invention discloses a honey collection control device for Camellia oleifera pollinating bees, comprising an outer box, a lower part of the outer box cavity is provided with a cover box, the outer box cavity above the cover box is a honey storage cavity, the cavity inside the cover box is a breeding cavity, and a mesh is provided between the honey storage cavity and the breeding cavity; there are channels left between the left and right ends of the box and the inner wall of the outer box; the bottom of the left side wall of the outer box is equipped with an inlet and an outlet. The inlet is equipped with a first one-way gate, which allows bees to only enter the honey storage chamber from the outside. The right and lower channels of the box are connected to the outlet, and there is a second one-way gate at the outlet, which allows bees to only move from the honey storage chamber to the outside; there is an opening at the lower end of the breeding chamber, and a third one-way gate is installed inside the opening. The third one-way gate allows bees to only move from the breeding chamber to the channel below the box. This invention solves the problem of worker bees easily causing a large number of bee larvae to die after collecting Camellia oleifera nectar.



21: 2025/00058. 22: 2025/01/02. 43: 2025/07/14

51: H01M

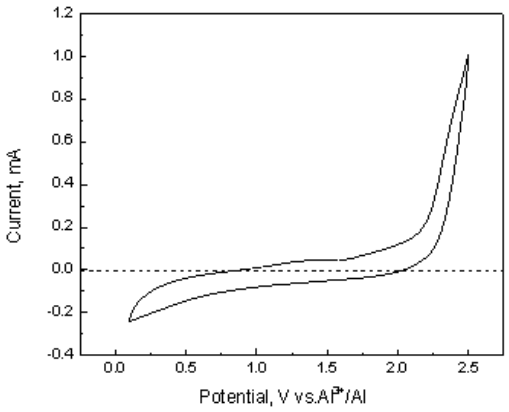
71: Henan University of Urban Construction

72: LIU Chengyuan, JIE Chaoyang, YIN Xupeng, CAO Dao, LIU Lei, ZHANG Shuaixiang, CHEN Jianuo, LI Fengcui

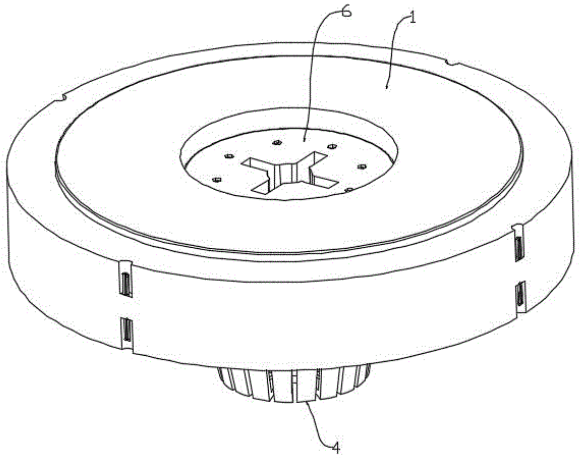
54: A HIGH PERFORMANCE REDUCED GRAPHENE OXIDE/CARBON FIBER POSITIVE MATERIAL AND APPLICATION THEREOF IN ALUMINUM BATTERIES

00: -

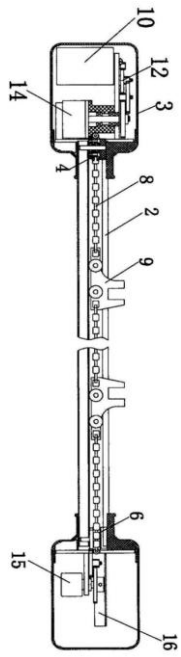
The invention discloses a high performance reduced graphene oxide/carbon fiber positive material and application thereof in aluminum batteries, belonging to the technical field of aluminum batteries. The high-performance reduced graphene oxide/carbon fiber positive material of the invention is a strong reduced graphene oxide-carbon fiber film obtained by weak reduction of graphene oxide-carbon fiber film and then strong reduction. The electrochemical reaction of the cathode material in the charging and discharging process is the intercalation and deintercalation reaction of chloride ion [Cl]-, and the specific discharge capacity can reach 900mAh g-1.



21: 2025/00059. 22: 2025/01/02. 43: 2025/07/07
51: B01D
71: Southwest Forestry University, Yunnan Provincial Academy of Water Resources and Hydropower Sciences, Tonghai County Water Conservancy Bureau, Qilu Lake Management Bureau
72: Haoliang Cheng, Juan Zhu, Wen Jiang, Lei Zhang, Jie Shen, Zhuo Yang
54: ORGANIC POLLUTANT ADSORPTION AND FILTRATION DEVICE FOR AQUATIC VEGETABLE FLOATING ISLAND WETLAND
00: -
The invention relates to the technical field of artificial floating island, in particular to an organic pollutant adsorption and filtration device for aquatic vegetable floating island wetland, comprising a floating island unit block, which comprises a plurality of floating island unit blocks. The bottom end of the inner ring opening of the floating island unit block is inserted with a planting basin, the inner ring opening of the floating island unit block is inserted with a foam board, and the surface of the foam board is provided with a hole. The top surface of the floating island unit block and the bottom surface of the floating island unit block are provided with a side slot, the surface of the side slot is fixed with a threaded post, and the surface of the foam plate is inserted with a nut; The invention has the following advantages: By optimizing the design of floating island unit block, planting basin, foam board and other components, the invention realizes the stable connection of floating island structure, the convenient installation and disassembly of planting basin, and the effective support for the growth of aquatic vegetables.

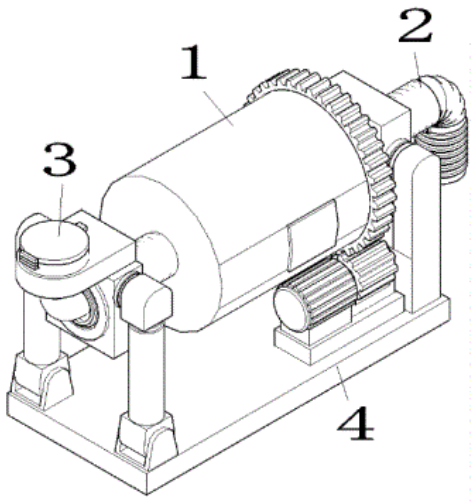


21: 2025/00060. 22: 2025/01/02. 43: 2025/07/14
51: E06B
71: Jiaxing Vocational & Technical College
72: YANG Xuemei
54: AUTOMATIC CURTAIN
00: -
The invention discloses an automatic curtain, which includes a cross bar, and is characterized in that one end of the cross bar is provided with a No.1 roller, and the other end of the cross bar is provided with a No.2 roller; the No.1 roller and the No.2 roller are sheathed with an annular transmission cord; a curtain cloth clamp is fixedly arranged on the cord; and the No.1 roller or the No.2 roller is in transmission connection with a power mechanism. The invention has the advantages of simple structure, stable operation, convenient use and high flexibility, and the curtain cloth can be freely dismounted at the same time, thereby facilitating the cleaning of the curtain cloth.



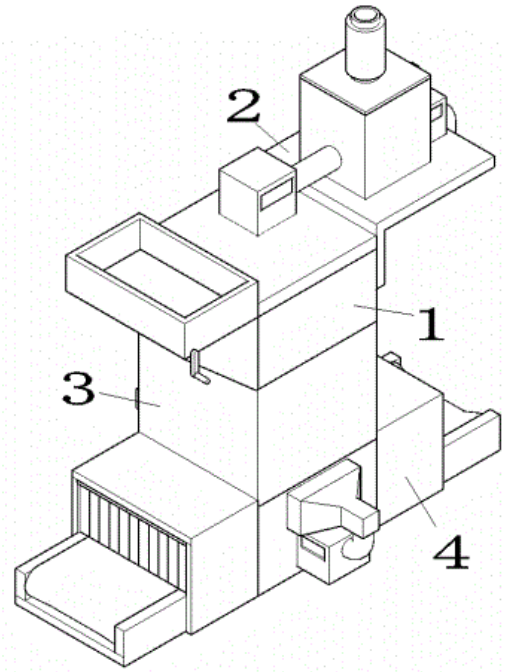
21: 2025/00061. 22: 2025/01/02. 43: 2025/07/07
51: B02C
71: NEI MONGOL SHENGLONG DADI TECHNOLOGY CO., LTD
72: LI, Yuqiang
33: CN 31: 202422731209.7 32: 2024-11-11
54: BALL MILLING DEVICE FOR PRECIOUS METAL CATALYST
00: -

The present invention relates to the technical field of catalyst processing apparatuses, and discloses a ball milling device for a precious metal catalyst. The ball milling device for a precious metal catalyst includes a ball milling device main body, where two auger tubes are fixedly mounted on two sides of the ball milling device main body. Outer sides of the auger tubes are movably connected to rotating frames, and two mounting rotating shafts are fixedly mounted on two sides of the rotating frames. A supporting ring is fixedly mounted on one side inside the ball milling device main body, and a buffer ring is fixedly mounted on one side of the supporting ring.



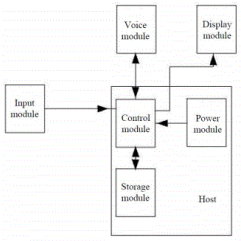
21: 2025/00062. 22: 2025/01/02. 43: 2025/07/07
51: B02C
71: NEI MONGOL SHENGLONG DADI TECHNOLOGY CO., LTD
72: LI, Yuqiang
33: CN 31: 202422736174.6 32: 2024-11-11
54: WASTE RECYCLING APPARATUS USED IN PRODUCTION OF SOLAR CELL PANEL COMPONENTS
00: -

Disclosed in the present invention is a waste recycling apparatus used in production of solar cell panel components, which relates to the technical field of production of solar cell panels. The waste recycling apparatus used in production of solar cell panel components includes a feeding box, where a guide tank is fixedly mounted at a top of the feeding box, and a filter screen is fixedly mounted inside the guide tank. A feeding hopper is fixedly mounted at one side of the feeding box, and a spring hinge is fixedly mounted at a top of the feeding hopper.



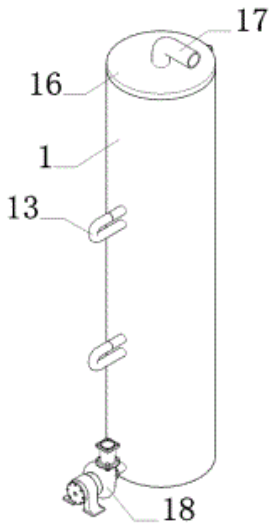
21: 2025/00063. 22: 2025/01/02. 43: 2025/07/07
51: A01K
71: Zhejiang Academy of Agricultural Sciences
72: CHENG, Jufen, ZHOU, Xin, ZHENG, Huichao, ZHANG, Li
54: FLAT GRANULE BEDDING MATERIAL AND PREPARATION METHOD AND USE THEREOF
00: -
The present invention relates to the technical field of animal feeding, and in particular to a flat granule bedding material and a preparation method and the use thereof. The bedding material includes the following raw materials in parts by weight: 50 to 60 parts of rice straw, 15 to 25 parts of rice husks, 5 to 10 parts of corn straw cores, 15 to 20 parts of malt roots, 2 to 5 parts of quicklime, and fermentation strains. The bedding material is solid and durable. It possesses strong adsorption capacities for moisture and ammonia gas, as well as bacteriostatic performance.

21: 2025/00064. 22: 2025/01/02. 43: 2025/07/07
51: G09B
71: Anqing Normal University
72: WU, Min, WANG, Yingli
54: AUXILIARY READING APPARATUS FOR LEARNING ETHICS FROM BILINGUAL CHILDREN'S LITERATURE
00: -
The present invention discloses an auxiliary reading apparatus for learning ethics from bilingual children's literature. The apparatus includes a host, a display module, and a main control module. The display module is connected with a signal output end of a control module and is configured for displaying ethics contents of bilingual children's literature; an input module is connected with a signal input end of the control module and is configured for inputting a control command to the control module; a voice module is bidirectionally connected with the control module and is configured for playing the ethics contents of bilingual children's literature and receiving a voice instruction sent by a user; a storage module is bidirectionally connected with the control module and is configured for storing learning resources; the control module is configured for processing an input instruction, invoking the learning resources, and generating a corresponding auxiliary reading scheme.



21: 2025/00065. 22: 2025/01/02. 43: 2025/07/07
51: B01D
71: NEI MONGOL SHENGLONG DADI TECHNOLOGY CO., LTD
72: LI, Yuqiang
33: CN 31: 202422733426.X 32: 2024-11-11
54: TAIL GAS TREATMENT DEVICE USED IN PRODUCTION OF LOW-MERCURY CATALYST
00: -
Disclosed in the present invention is a tail gas treatment device used in production of a low-mercury catalyst. The tail gas treatment device includes a limiting pipe, where partition plates are fixedly mounted inside the limiting pipe, bubble trays are fixedly mounted above the partition plates, bent pipes are inserted and mounted at a left side of the limiting pipe, and metal nets are fixedly mounted inside the limiting pipe. Tail gas will be discharged through small holes at surfaces of the bubble trays and move upwards in the form of bubbles inside the limiting pipe. Since the metal nets are vertically and

equidistantly mounted inside each chamber of the limiting pipe, the bubbles will be divided by the metal nets when passing through the metal nets, such that the bubbles are denser, thus increasing a contact area between the tail gas and a treatment liquid.

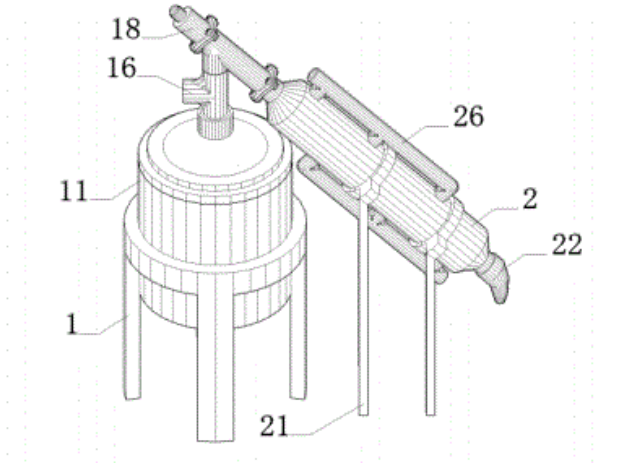


21: 2025/00066. 22: 2025/01/02. 43: 2025/07/07
51: C22B
71: NEI MONGOL SHENGLONG DADI TECHNOLOGY CO., LTD
72: LI, Yuqiang
33: CN 31: 202422736154.9 32: 2024-11-11

54: EFFICIENT AND ENVIRONMENT-FRIENDLY DISTILLATION PRODUCTION DEVICE FOR RECLAIMING MERCURY BY TREATING WASTE MERCURY CATALYST

00: -

Disclosed is an efficient and environment-friendly distillation production device for reclaiming mercury by treating a waste mercury catalyst. The efficient and environment-friendly distillation production device includes an elevating frame, where an upper portion of the elevating frame is fixedly provided with a heating pipe, the heating pipe is internally fixedly provided with a heating coil, a top end of the heating pipe is fixedly provided with a support ring, a reception barrel is embedded in an upper portion of the support ring, and an upper portion of the reception barrel is movably provided with a threaded joint. Cooling water can enter a condensation pipe through a water inlet pipe via lower ends of all chambers of the condensation pipe, and then be discharged through sections of the water outlet pipe at top ends of all the chambers of the condensation pipe.



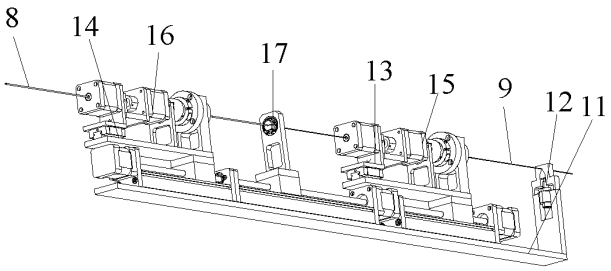
21: 2025/00067. 22: 2025/01/02. 43: 2025/07/07
51: A61B; A61M
71: TIANJIN UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: LU, Hao, ZHANG, Wenjiong, WANG, Xin, LI, Zhengyang, BI, Yushu, GUO, Xiaoyan, WANG, Jin, ZHANG, Shichang, ZHANG, Dawei
33: CN 31: 202410591100.X 32: 2024-05-13

54: PUNCTURE ROBOT AND PUNCTURE SYSTEM FOR COLLABORATIVE DELIVERY OF GUIDEWIRE AND CATHETER, AND CONTROL METHOD

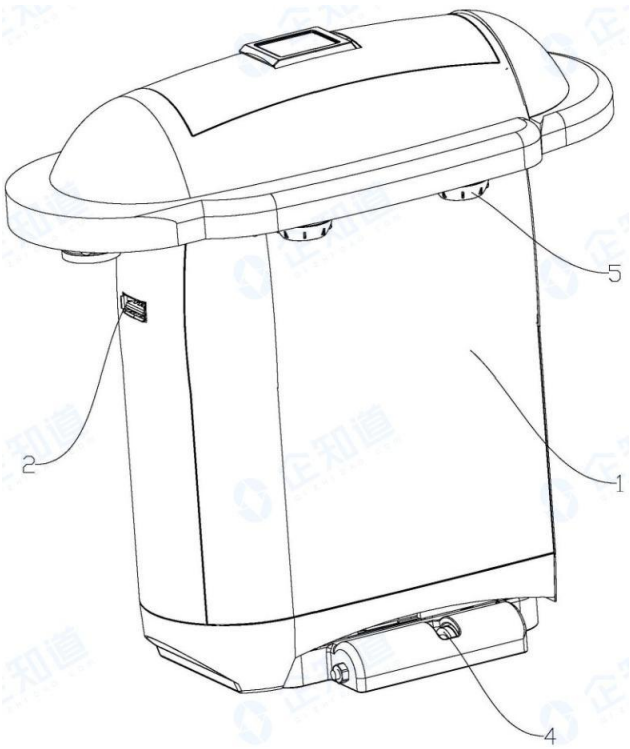
00: -

The present invention belongs to technical field of surgical robot, and particularly relates to a puncture robot and puncture system for collaborative delivery of guidewire and catheter, and a control method. In the present invention, the puncture robot comprises a delivery support, a first guidewire fixing fixture, a guidewire delivery rotating mechanism, and a catheter delivery rotating mechanism; wherein the first guidewire fixing fixture, the guidewire delivery rotating mechanism, and the catheter delivery rotating mechanism are sequentially arranged on the delivery support in a delivery direction of a guidewire; delivery axes and rotation axes of the guidewire delivery rotating mechanism and the catheter delivery rotating mechanism coincide; a second guidewire fixing fixture is provided on the guidewire delivery rotating mechanism, a first catheter fixing fixture and a second catheter fixing fixture are provided on the catheter delivery rotating mechanism. In the present invention, when in use,

the guidewire is inserted into a catheter; actions for independent intervention of the guidewire, independent intervention of the catheter, and synchronous intervention of the guidewire and the catheter are achieved by controlling the four fixing fixtures; a problem that in the prior art, a robot cannot perform synchronous intervention of the catheter and the guidewire is solved, and collaborative delivery of the catheter and the guidewire is achieved.

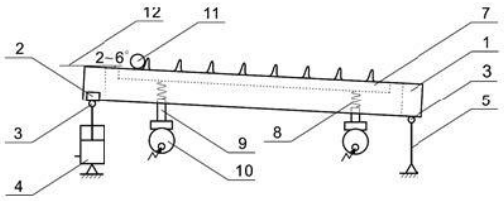


21: 2025/00068. 22: 2025/01/02. 43: 2025/07/07
51: B41K; G06K; G07C
71: XINGZHI COLLEGE ZHEJIANG NORMAL UNIVERSITY, MERRY WISER (JINHUA) TECHNOLOGY DEVELOPMENT CO., LTD
72: HUANG, Zhenting, DUAN, Zhizhuang, HUANG, Ruiyang, HUANG, Yuyun, LIN, Guchong
54: DIGITAL SEAL DEVICE HAVING CAPABILITY OF LOCALIZED NOTARIZATION
00: -
This invention relates to a digital seal device having a capability of localized notarization, comprising a seal shell. A power supply assembly and supporting shell are arranged inside the seal shell, a dye cartridge and main control circuit board are arranged inside the supporting shell, one end of the dye cartridge is provided with a cartridge nozzle, a plurality of film resistors are arranged inside the cartridge nozzle, the film resistors heat ink to form bubbles to stamp a pattern, one side of the supporting shell penetrates the seal shell, the end of the supporting shell on the side is provided with a sliding assembly, the sliding assembly can roll over the surface of paper, and one side of the seal shell is provided with a plurality of wide-angle cameras.

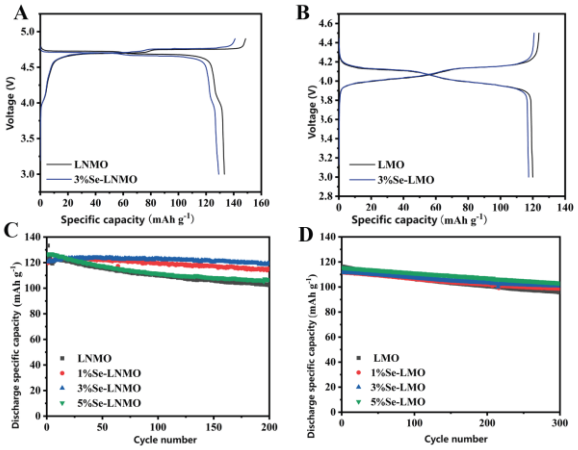


21: 2025/00069. 22: 2025/01/02. 43: 2025/07/07
51: B21B
71: HEBEI HEGANG MATERIAL TECHNOLOGY RESEARCH INSTITUTE CO., LTD, HBIS GROUP CO., LTD., HBIS COMPANY LIMITED
72: QI, Jianjun, ZHANG, Zhixin, DAI, Guanwen, HUANG, Shengyong, LI, Fuyong, WANG, Yan, SUN, Yan, CHEN, Zhenye, LIU, Yong, LIANG, Aiguo
33: CN 31: 202411213890.4 32: 2024-08-31
54: COOLING BED AND METHOD FOR IMPROVING STRAIGHTNESS OF HOT-ROLLED METALLIC ROUND BAR
00: -
The present invention relates to a cooling bed and method for improving straightness of hot-rolled metallic round bar, belonging to technical field of metallurgical machinery and material processing in metallurgical industry. Technical solution is: it comprises a cooling bed platform and a rack, the cooling bed platform is an inclined structure, a higher end of the cooling bed platform is a feeding end, a lower end of the cooling bed platform is a blanking end, the cooling bed platform is provided with a plurality of parallel long strip gaps, each of the long strip gaps is provided with one rack, a cam mechanism is provided under the each rack, a maximum inclination angle of the each rack is the same as an inclination angle of the cooling bed

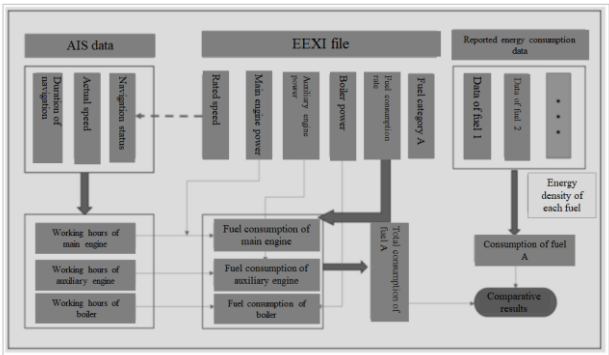
platform; a tooth spacing L of the rack is 1.5p times, 2.5p times, 3.5p times, or 4.5p times a radius of a metallic round bar. Beneficial effects of the present invention are: it can ensure that the metallic round bar is cooled evenly on the cooling bed, thereby improving straightness of the hot-rolled metallic round bar.



21: 2025/00070. 22: 2025/01/02. 43: 2025/07/07
51: H01M
71: KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: ZHANG, Yannan, ZHANG, Bao, DONG, Peng, ZHANG, Yingjie, DUAN, Jianguo
33: CN 31: 2024112195771 32: 2024-09-02
54: MODIFIED MANGANESE-BASED CATHODE MATERIAL, PREPARATION METHOD AND APPLICATIONS THEREOF
00: -
The present invention relates to the technical field of new energy materials, and a modified manganese-based cathode material, a preparation method and applications thereof are disclosed. The preparation method of the present invention includes the following steps: mixing a manganese-based cathode material, a selenium source and organic solvent for ultrasonic dispersion, and performing drying and ball milling on the dispersion in sequence, to obtain a modified manganese-based material precursor; and sintering the precursor of the modified manganese-based material, to obtain a modified manganese-based cathode material. The structural stability of the modified manganese-based cathode material provided by the present invention is significantly improved. The modified cathode material can form Mn-O-Se bonds, which can alleviate the volume strain during charging and discharging and inhibit the formation of microcracks in the material. In addition, the side reactions on the electrode surface are suppressed, which can effectively avoid the capacity fading of materials caused by interface side reactions, with better long-cycle stability.



21: 2025/00071. 22: 2025/01/02. 43: 2025/07/07
51: G01F; G01M; G06Q
71: CHINA WATERBORNE TRANSPORT RESEARCH INSTITUTE
72: REN, Lili, WANG, Hongyan, TIAN, Yujun, SHI, Jing, WANG, Zheng
33: CN 31: 202410722098.5 32: 2024-06-05
54: METHOD AND SYSTEM FOR ESTIMATING AND VERIFYING FUEL QUANTITY OF SHIP
00: -
The invention relates to the technical field of ship energy saving disclosing a method for estimating and verifying fuel quantity of a ship. The method includes the following steps: 1. data sources of the system include energy consumption data reported by the ship, AIS data of a time period corresponding to the energy consumption data, and an EEXI file of the ship; step 2. acquiring a rated speed of the ship, a main engine power, an auxiliary engine power, a boiler power, a fuel consumption rate, and fuel category related parameters corresponding to the fuel consumption rate through the EEXI file; and step 3. acquiring a ship navigation status, an actual speed, a ship location, a navigational status, and corresponding time data through AIS data, and analyzing total working hours of a main engine, an auxiliary engine and a boiler of the ship according to the ship navigation status.

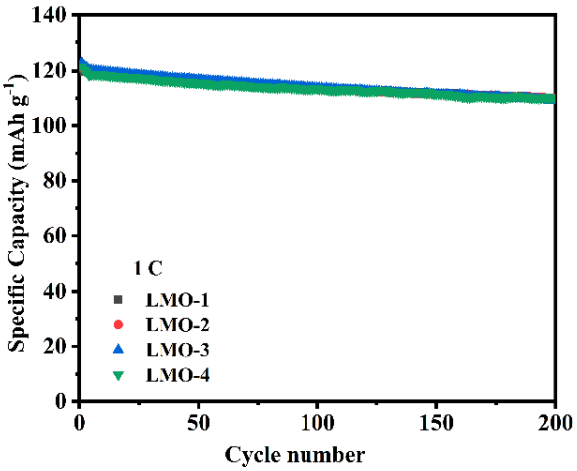


21: 2025/00072. 22: 2025/01/02. 43: 2025/07/07
51: B29B; C04B
71: KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: ZHANG, Yannan, ZHANG, Bao, LIANG, Zhen, SONG, Weili, DONG, Peng, ZHANG, Yingjie

54: METHOD FOR PREPARING SPINEL MANGANESE-BASED CATHODE MATERIAL WITH MOLTEN SALT ASSISTANCE

00: -

The present invention relates to the technical field of lithium batteries, and in particular, to a method for preparing a spinel manganese-based cathode material with molten salt assistance. In order to solve the problems of easy agglomeration and poor cycle performance of manganese-based cathode materials, the present invention provides a method for preparing a spinel manganese-based cathode material with molten salt assistance. The agglomeration of the cathode material prepared by this method is reduced, which effectively alleviates the internal stress of the material and inhibits the fracture of the particles of the material, with good cycle stability. The preparation method of cathode material for lithium-ion batteries provided by the invention has wide applicability, and the preparation method is suitable for lithium nickel manganese oxide, lithium cobalt oxide, and lithium-rich manganese-based, ternary layered cathode and lithium iron phosphate cathode materials.



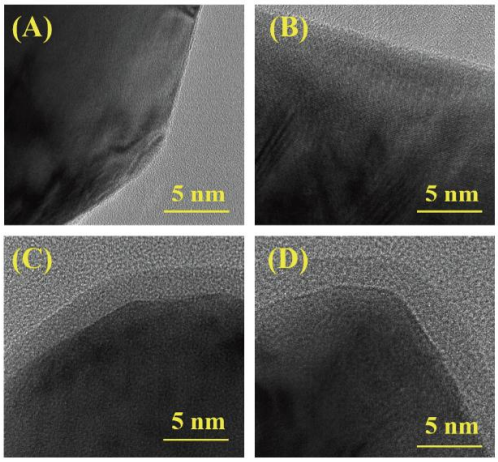
21: 2025/00073. 22: 2025/01/02. 43: 2025/07/07
51: H01M
71: KUNMING UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: ZHANG, Yannan, ZHANG, Bao, DONG, Peng, ZHANG, Yingjie, ZHANG, Enfeng

54: PREPARATION METHOD FOR OPTIMIZING INTERFACE OF CATHODE MATERIAL FOR LITHIUM-ION BATTERIES WITH SOLVATION METHOD

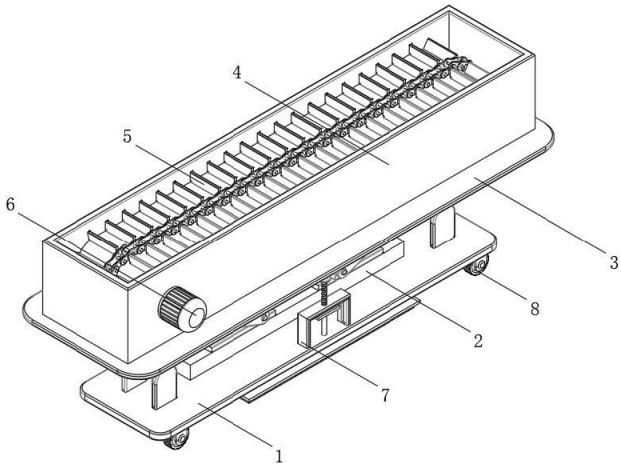
00: -

The present invention relates to the technical field of lithium-ion batteries, and in particular, to a preparation method for optimizing an interface of a cathode material for lithium-ion batteries with a solvation method. In the present invention, manganese carbonate and lithium carbonate are mixed, and then grinding, a first sintering and a second sintering are performed on the mixture including manganese carbonate and lithium carbonate in sequence to prepare a lithium manganate cathode material; and the lithium manganate cathode material is mixed with an acid solution, and then hydrothermal reaction, drying and sintering are performed in sequence, to prepare a lithium manganate cathode material with a conductive protective layer. The preparation method of the present invention is simple and the cost is low, and the conductive protective layer of the present invention can improve the problem of low conductivity of the oxide protective layer while inhibiting the corrosion of the electrolyte to the cathode material. Moreover, The protective layer can form a uniform CEI film on the surface of the

material, improving the electrochemical performance of the battery material.

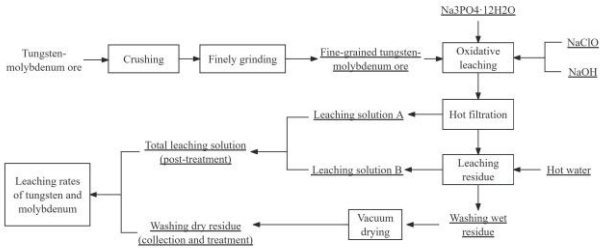


21: 2025/00074. 22: 2025/01/02. 43: 2025/07/07
51: B65G
71: ZHAOQING UNIVERSITY
72: LU, Wenjia, LIANG, Guangda, ZHU, Lisha, YUAN, Cong, LI, Saiwei
54: SCRAPER CONVEYING DEVICE FOR MINING
00: -
A scraper conveying device for mining is provided, which relates to the technical field of coal mining. The device includes a floor plate, an adjusting assembly, and stable assemblies; and an upper part of the bottom plate is movably connected to the adjusting plate, moving wheels are movably connected to around a bottom of the bottom plate, and the adjusting assembly includes a fixed base, the fixed base includes a middle end fixedly connected to a top of the bottom plate, and sliding seats with fixed connections are arranged on left and right sides of a top of the fixed base. According to the scraper conveying device for mining of the present invention, by simultaneously rotating the screws, during the rotation process, the screws utilize the action of threads to drive the screw sleeves to move outward, the screw sleeves drive inclination angles of the connecting rods to change simultaneously through the sliding blocks, and the adjusting plate is driven to move upward through the connecting rods, thereby adjusting the height of use; and by separately rotating the screws on both sides, inclination angles of the connecting rods 207 on both sides are driven to changed differently, and the adjusting plate 3 is driven to tilt through the connecting rods 207 on both sides, thereby adjusting the angle of use.



21: 2025/00075. 22: 2025/01/02. 43: 2025/07/07
51: C22B
71: NORTHEASTERN UNIVERSITY
72: YANG, Hongying, TONG, Linlin, KANG, Jian, XIONG, Bin
33: CN 31: 2024104407580 32: 2024-04-12
54: METHOD FOR ALKALINE LEACHING OF SODIUM HYPOCHLORITE OXIDATION AND PHOSPHATE SYNCHRONOUSLY FROM LOW-GRADE TUNGSTEN-MOLYBDENUM ORE
00: -
The present invention relates to the technical field of hydrometallurgy, and in particular to a method for alkaline leaching of sodium hypochlorite oxidation and phosphate synchronously from a low-grade tungsten-molybdenum ore. With the increasing scarcity of tungsten and molybdenum resources, the traditional physical beneficiation technology faces the challenge of low grade and recovery rate. In response to this problem, the present invention proposes a method for alkaline leaching of sodium hypochlorite oxidation and phosphate synchronously, after crushing and finely grinding the ore to a specific particle size, in an alkaline solution, molybdenite is oxidized by sodium hypochlorite, and molybdenum-tungsten-calcium ore and scheelite are leached by sodium phosphate. This method not only changes the existing forms of molybdenite and molybdenum-tungsten-calcium ore in tungsten-molybdenum ore, thereby increasing the leaching rate of tungsten and molybdenum, moreover, it simplifies the treatment process, reduces the production cost and is environmentally friendly. The

experimental results show that this method can effectively improve the leaching rate of tungsten and molybdenum in low-grade tungsten-molybdenum ore, and provide a new solution for the efficient, economical and clean extraction of low-grade tungsten-molybdenum ore.

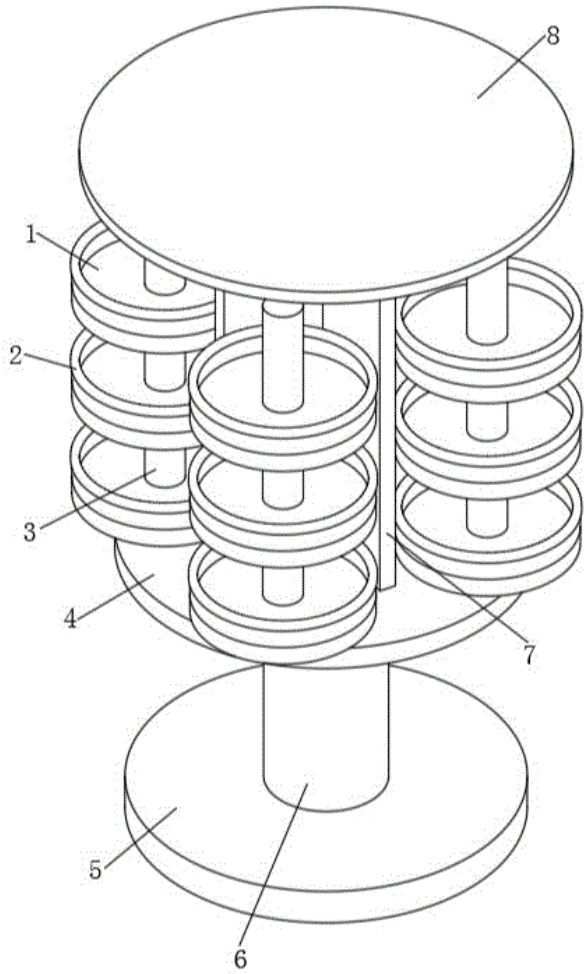


21: 2025/00078. 22: 2025/01/02. 43: 2025/07/07
51: A47F
71: Jiaxing Vocational and Technical College
72: Jiao Wang, Jianing Shan, Jiaping Shi, Ai Ke, Yu Chen, Yixin Chen

54: AN E-COMMERCE LIVE BROADCAST MULTI-DIRECTIONAL DISPLAY DEVICE

00: -

The invention discloses an e-commerce live broadcast multi-directional display device, which belongs to the field of e-commerce live broadcast technology. It includes a round plate base, the upper end of which is fixed with a rotating structure. The upper end of the rotating structure is connected to a supporting disk, and the center of the upper end of the supporting disk is equipped with a cross glass plate. Four sets of limiting columns are arranged on the upper end of the supporting disk, and the surface of the limiting columns is rotatably connected to a display turntable. The invention is equipped with a protective component, allowing the upper end of the display turntable to be connected and fixed by a positioning rod and a protective ring. The protective ring is further connected and fixed with a magnetic ring and a connecting magnetic plate, which can protect and cover the items on the upper end of the display turntable to prevent them from falling during rotation. The invention also includes an illumination component, with a top plate fixed above the cross glass plate. The LED light tubes at the lower end of the top plate light up when powered, providing additional lighting for the displayed items to make the display clearer and improve the display effect. Additionally, a dustproof cover helps prevent dust accumulation.



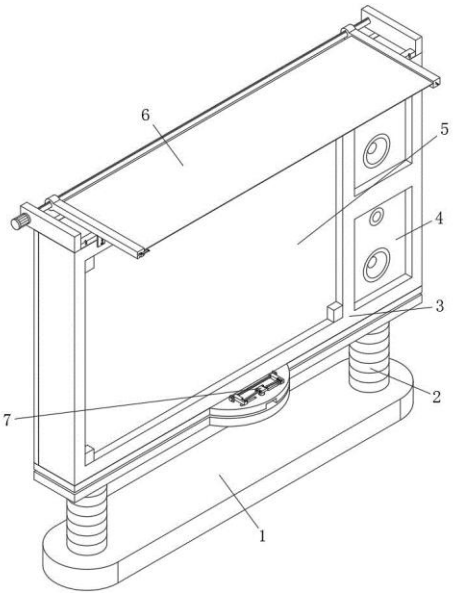
21: 2025/00080. 22: 2025/01/02. 43: 2025/07/07
51: G09F
71: Jiaxing Vocational and Technical College
72: Jiao Wang, Jianing Shan, Jiaping Shi, Ai Ke, Yu Chen, Yixin Chen

54: A PUBLICITY PLATFORM FOR IDEOLOGICAL AND POLITICAL EDUCATION

00: -

The invention discloses a publicity platform for ideological and political education, belonging to the technical field of publicity platforms. The platform includes a base plate, with lifting mechanisms symmetrically arranged on the upper end of the base plate. A housing is installed at the upper end of the lifting mechanisms. One side of the interior of the housing is fixedly connected to a speaker, while the other side is fixedly connected to a display screen. A sunshade component is installed at the upper end of

the housing, and a rotating component is installed at the lower end. By providing the sunshade component, the invention achieves shading for the upper part of the display screen, preventing sunlight reflection that could hinder observation and reducing the impact of rainwater on the display screen's performance, thereby enhancing the practicality of the publicity platform. The shading range can be adjusted by pulling two connecting rods closer or further apart. Additionally, the rotating component allows the display screen to rotate, enabling people from different positions to view the screen content, which improves the effectiveness of the publicity platform.

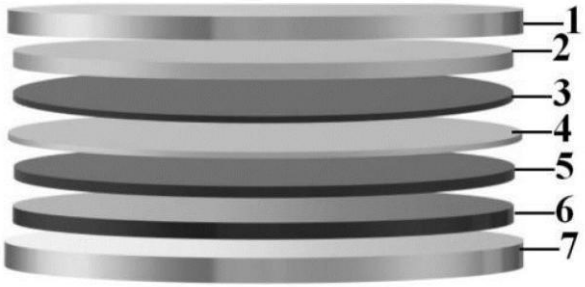


21: 2025/00081. 22: 2025/01/02. 43: 2025/07/07
51: H01M
71: Hebei Normal University of Science and Technology
72: Wang Lijiang, Li Zemin, Li Wei, Lei Zijie, Ji Zhixin, Chai Yingjie, Wang Ying

54: LITHIUM-SULFUR BATTERY AND PREPARATION METHOD THEREOF

00: -

The present invention provides a lithium-sulfur battery and a preparation method thereof, and belongs to the technical field of lithium ion batteries. In the present invention, biochar, as a carrier of sulfur, may provide good conductivity to solve a problem of poor conductivity of sulfur; and biochar may tolerate a volume expansion during charging and discharging, and may also physically adsorb polysulfides and promote chemical bonding during sulfur loading, thus jointly inhibiting a shuttle effect. A modified positive electrode layer is used to prevent the polysulfides from being dissolved in electrolyte and passing through a separator, and manganese dioxide provides rich active sites to adsorb polysulfide ions, so that a loss of active substances is limited, thus further inhibiting the shuttle effect of the polysulfides. Modifying the separator by using carbon nanotube may not only improve a transmission efficiency of lithium ions, but also protect a lithium negative electrode, inhibit a growth of lithium dendrites, promote a uniform deposition of lithium, prevent the separator from being punctured, and prolong a service life of the battery.



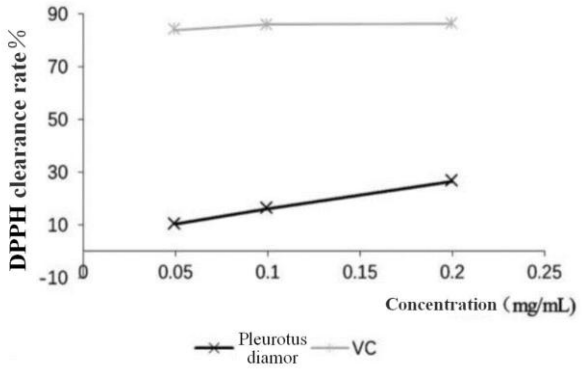
21: 2025/00082. 22: 2025/01/02. 43: 2025/07/14
51: A61K
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: WANG Fumei, LU Tie, XIE Zhaohui, YANG Yujia, BAO Chunxiang, YAO Ruoxiang, TIAN Chenxi

54: CENTELLA ASIATICA LYSOZYME GEL RICH IN PLEUROTUS DIAMOR FRUITING BODY POLYPEPTIDE AND PREPARATION METHOD THEREOF

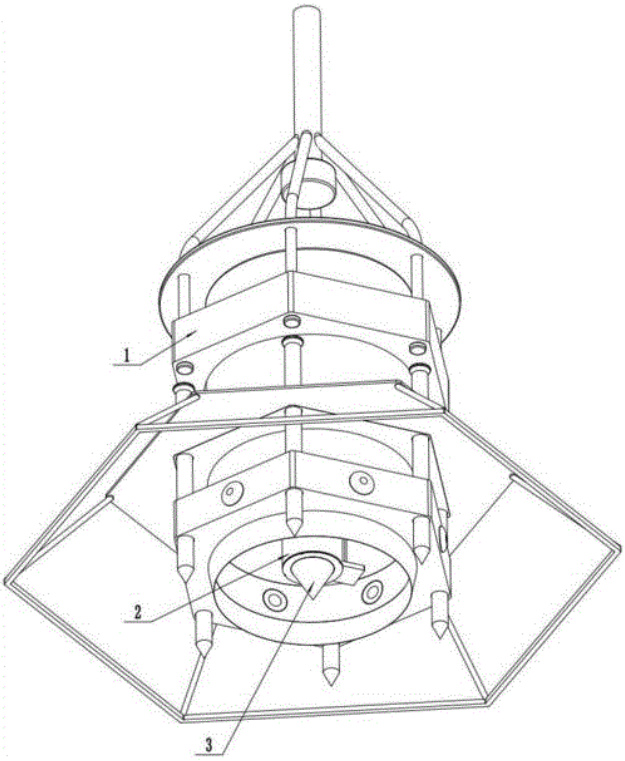
00: -

The invention discloses a centella asiatica lysozyme gel rich in pleurotus diamor fruiting body polypeptide and a preparation method thereof. A centella asiatica lysozyme gel rich in pleurotus diamor fruiting body polypeptide includes effective active components, gel components, antiseptic components, pH regulator and deionized water, where the effective active components include centella asiatica powder, pleurotus diamor polypeptide powder, enzyme-cut sodium oligomeric hyaluronic acid, lysozyme, raspberry glycoside, schizophyllum commune polysaccharide, lactobionic acid and the like; the gel components are thickeners;

and the antiseptic components include p-hydroxyacetophenone, 1,2 hexanediol and 1,3 propanediol. Both pleurotus diamor polypeptide and centella asiatica extract have the effects of resisting oxidation and delaying skin aging, and can reduce the irritation of transdermal absorption while enhancing transdermal absorption, so as to achieve the purposes of deep gentleness, moisturizing, nutrition and repair, and are especially suitable for people with sensitive skin. The preparation method includes adding active ingredients such as pleurotus diamor polypeptide, lysozyme and schizophyllum commune polysaccharide in the traditional preparation process of centella asiatica gel.

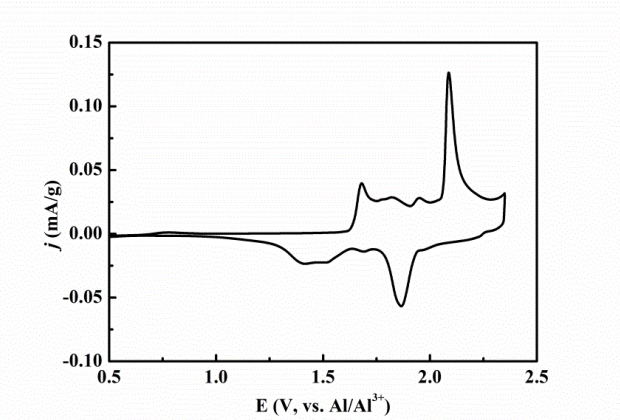


21: 2025/00083. 22: 2025/01/02. 43: 2025/07/07
51: G01N
71: Shandong Provincial Institute of Physical and Chemical Exploration, No.801 Hydro-engineering Geological Brigade of Shandong Provincial Bureau of Geology and Mineral Resources
72: ZHANG Yanhui, ZHANG Pengpeng, WU Min, LIU Chuane, LEI Yanxiang, LIU Xiaofang
54: FLOATING MUD DETECTION AND SAMPLING DEVICE AND SAMPLING METHOD
00: -
The invention relates to a floating mud detection and sampling device and a sampling method, which comprises a shell part, a drainage part and a sampling part; When it is necessary to collect seafloor mud, use this device, put the device into the sea, and the device sinks to the seafloor under the action of gravity. The support frame keeps the device upright, and the support block sinks into the floating mud to keep the device level under the influence of gravity. The gravity block presses down the fixing nail to fix the device in the floating mud, and the magnet in the lower part of the lowering mechanism is placed into the sleeve in the middle of the upper housing. The gas storage tank is discharged into the main body of the shell, and the sea water flows out from the hole of the drainage switch sleeve. After the sea water is discharged, the gas storage tank stops the exhaust, so that there is no water in the main body of the shell. The electromagnet pushes the sampling housing down to the designated position, and the sampling door flips and turns, allowing the mud to be transported to the sampling tank. When the sampling is completed, the equipment is restored to the original state, take out the moving cylinder, observe the state of the floating mud in the sampling tank, take out the sampling tank, and take out the sampled floating mud for observation.



21: 2025/00084. 22: 2025/01/02. 43: 2025/07/14
51: H01M
71: Henan University of Urban Construction
72: LIU Chengyuan, GUO Yan, GAO Shuning, GAO Zhe, SUN Jiahao
54: CARBON-BASED POSITIVE ELECTRODE MATERIAL AND APPLICATION THEREOF IN ALUMINUM BATTERIES
00: -
The invention discloses a carbon-based positive electrode material and application thereof in

aluminum batteries, which belongs to the technical field of aluminum battery. The carbon-based positive electrode material is formed by adsorbing the carbon material with graphite structure after crushing treatment on a carbon fiber cloth substrate. The carbon-based positive electrode material avoids using adhesive, and the three-dimensional porous network structure of the carbon fiber cloth substrate provides a channel for the rapid migration of ions. The invention has simple process and low cost. As the positive electrode of aluminum ion battery, the carbon-based positive electrode material shows excellent electrochemical performance, and the specific discharge capacity of the battery reaches 160-330 mAh/g.

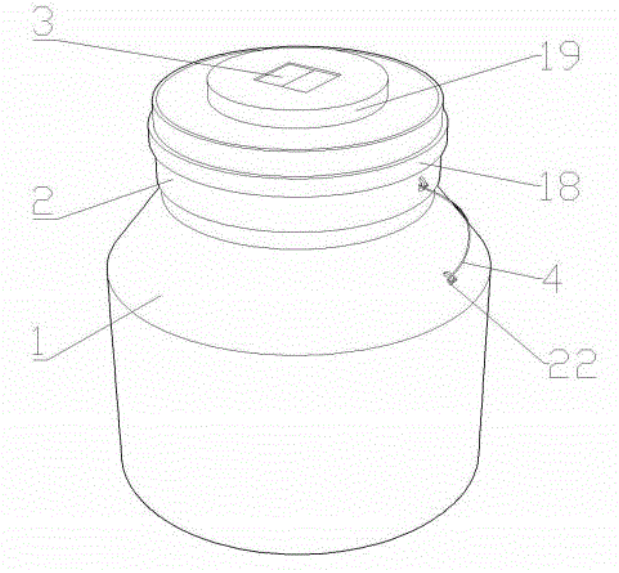


21: 2025/00085. 22: 2025/01/02. 43: 2025/07/14
51: B65D
71: Henan University of Urban Construction
72: HAO Minghui, LI Bin, JIANG Zhongfeng, WU Junfeng, GAO Hongbin

54: ENVIRONMENTAL SAMPLE STORAGE DEVICE WITH LABEL PROTECTION AND WHOLE PROCESS INFORMATION RECORDING FUNCTION

00: -

The invention belongs to the technical field of sample storage and management, and provides a sample storage device with label protection and whole process information recording function, comprising: a bottle body and a bottle cap which are detachably connected, wherein a recording cavity is defined on the top surface of the bottle cap, and the recording cavity is used for pasting labels; a pair of cover plates movably fit on that top surface of the bottle cap, and the adjusting ends of the adjusting piece are respectively configured to be connected with the pair of cover plates to form a pair of cover plates being in contact or away from each other; when the pair of cover plates are in contact with each other, the label can be covered relative to the bottle cap, and when a pair of cover plates are far away from each other, the label can be exposed relative to the bottle cap; editable writable label paper with two-dimensional code or RFID electronic label can not only directly read the key information of the sample, but also compile and view the corresponding sample information; the connecting rope is configured such that both ends are respectively fixed with the bottle body and the bottle cap. The invention can improve the effect of recording the marking information of the sample and reduce the influence on the marking information in the process of sample collection, transportation and even detection.



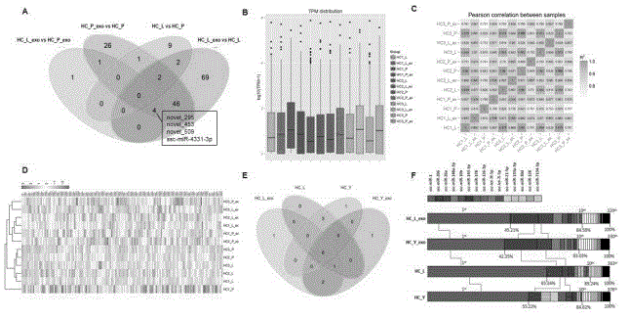
21: 2025/00086. 22: 2025/01/02. 43: 2025/07/07
51: A61K
71: Southwest University
72: Jia LUO, Daiyu ZHANG, Zhenhao WEN, Taorun LUO, Qiang PU
33: CN 31: 202410727082.3 32: 2024-06-06

54: MOLECULAR METHOD FOR IDENTIFYING MUSCLE FIBERS BY USING MIRNA OF SKM-EXOS

00: -

The invention discloses a molecular method for identifying muscle fibers by using miRNA of SKM-Exos, which belongs to the field of molecular biology technology. S1, miRNA transcriptome sequencing:

miRNA sequencing analysis is performed on Hechuan pig oxidized skeletal muscle (psoas major muscle) and glycolytic skeletal muscle (longissimus dorsi muscle), and their exosomes; S2, analysis of differential miRNAs in oxidative, and glycolytic skeletal muscle tissues and exosomes; S3, study on miR-4331-3p that promotes the proliferation of myoblasts; S4, study on miR-4331-3p that inhibits myoblast differentiation and muscle fiber formation. By sequencing and analyzing the miRNAs in skeletal muscle and its exosomes, it is found that the miRNAs in SKM-Exos of different metabolic types have unique expression characteristics, showing different patterns from their source skeletal muscle tissues, indicating that the encapsulation of miRNA of SKM-Exos is selective, and it shows that miR-4331-3p promotes myoblast proliferation, inhibits myoblast differentiation and muscle fiber formation, and can be used as a molecular marker for muscle fiber identification.

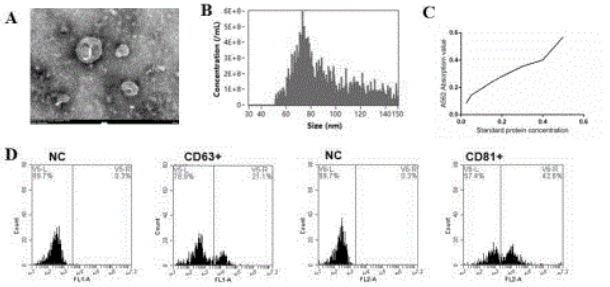


21: 2025/00087. 22: 2025/01/02. 43: 2025/07/07
51: C12N
71: Southwest University
72: Jia LUO, Qiang PU, Daiyu ZHANG, Zhenhao WEN, Taorun LUO
33: CN 31: 2024105808386 32: 2024-05-11

54: RESEARCH METHOD FOR SKM-EXOS THAT PROMOTE PROLIFERATION AND DIFFERENTIATION OF MYOBLASTS

00: -

The invention discloses a research method for the SKM-Exos that promote the proliferation and differentiation of myoblasts, which belongs to the field of molecular biology technology, including the following steps: separation of the SKM-Exos; identification of the SKM-Exos; transfection of the SKM-Exos; CCK-8 cell proliferation detection of the myoblasts transfected with the SKM-Exos; EdU proliferation detection of the myoblasts transfected with SKM-Exos; differentiation evaluation of the myoblasts transfected with SKM-Exos. The invention provides a research method for the SKM-Exos that promote myoblast proliferation, differentiation, and muscle fiber transformation. It provides a new idea for the future application of SKM-Exos in the differentiation of skeletal muscle fiber types and muscle fiber heterogeneity research, and also provides a theoretical basis for improving muscle yield and muscle quality of livestock and poultry economic animals.



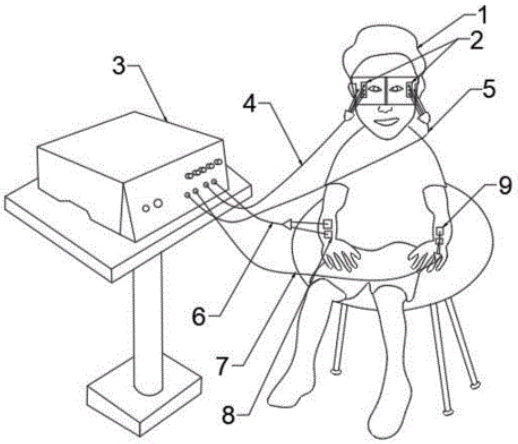
21: 2025/00089. 22: 2025/01/02. 43: 2025/07/07
51: A61F
71: SQ-Med Co., Ltd., ZHONGDA HOSPITAL SOUTHEAST UNIVERSITY
72: Zhigong WANG, Xiaoying LYU, Baoyu YUAN, Boduo WANG

54: METHOD FOR AUTONOMOUSLY REGULATING LIMB MOVEMENT THROUGH EMG-SIGNALS OF FACIAL MUSCLE ACTION

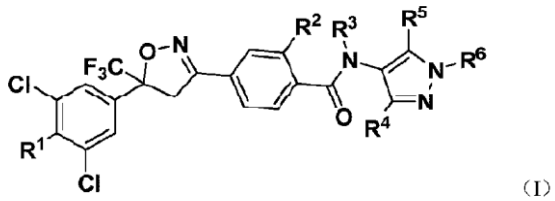
00: -

The invention discloses a method for autonomously regulating limb movement through the EMG-signals of facial muscle action, the patient with uncontrolled limbs uses the double-sided facial EMG-signal detecting electrode array and the EMG-bridging limb movement instrument to realize that the paralyzed limbs can be controlled by the self-consciousness of the patient to make harmonious movements instantly, and achieve the goal of rehabilitation of limb motor function or prevention of muscle atrophy through periodic application. The double-sided facial EMG-signal detecting electrode array and the EMG-bridging limb movement instrument are connected by the first cable and the second cable of the detecting electrode array, and two sets of stimulation double electrodes are set, the first stimulation double electrode and the second stimulation double electrode, the first stimulation double electrode and

the second stimulation double electrode are connected to the EMG-bridging limb movement instrument by the third cable and the fourth cable of the stimulation double electrodes. The invention adopts a method for autonomously regulating limb movement through the EMG-signals of facial muscle action of the above structure and realizes the harmonious action of both upper limbs or both lower limbs of patients with uncontrolled limbs under the control of the mind.

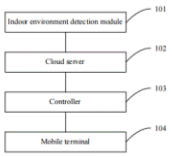


21: 2025/00090. 22: 2025/01/02. 43: 2025/07/07
51: C07D
71: Anhui Shengfeng Biochemical Co., Ltd
72: YANG, Guangfu, HUANG, Wei, MA, Zhepeng, WANG, Zhenyu, WANG, Jinzhen, LI, Jianyou
33: CN 31: 202210826763.6 32: 2022-07-13
54: COMPOUND CONTAINING PYRAZOLE STRUCTURE, APPLICATION, AND INSECTICIDE
00: -
The present invention relates to the field of pesticides and insecticides; disclosed are a compound containing a pyrazole structure, an application, and an insecticide. The compound containing the pyrazole structure has the structure shown in formula (I). The compound provided in the present invention can, at low concentrations, successfully kill insects, mites, nematodes and piercing-sucking insects.



(I)

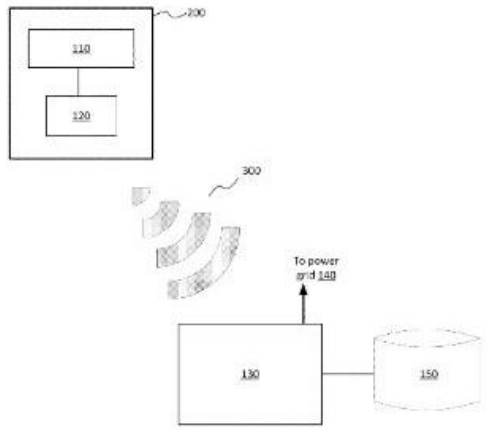
21: 2025/00092. 22: 2025/01/02. 43: 2025/07/07
51: G05B
71: HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE
72: TIAN, Dongge
54: SMART HOME CONTROL SYSTEM BASED ON BIG DATA
00: -
Disclosed is a smart home control system based on big data. The smart home control system includes: an indoor environment detection module, configured to acquire environmental information of a room where a controlled smart home is located in real time; the cloud server, configured to receive the environmental information acquired by the indoor environment detection module; the controller, configured to receive the smart home control scheme transmitted from the cloud server and generate a control command according to the smart home control scheme, then send the generated control command to the smart home by means of a wired network or the wireless network, and control the smart home to perform corresponding work; and a mobile terminal, configured to generate the user demand information and upload the user demand information to the cloud server by means of the wireless network.



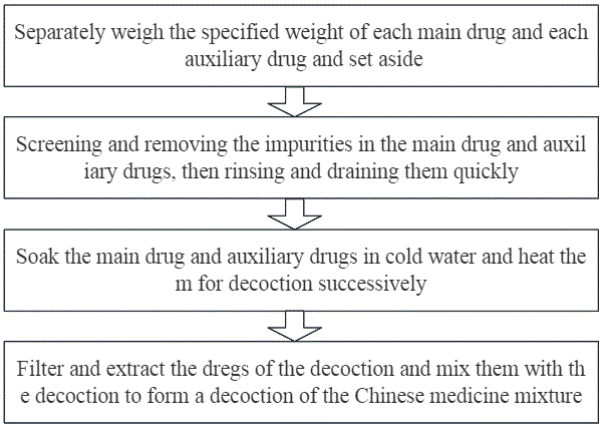
21: 2025/00093. 22: 2025/01/02. 43: 2025/07/07
51: B64G; H02J; H02S
71: OVERVIEW ENERGY INC.
72: BERTE, Marc
33: US 31: 63/368,534 32: 2022-07-15
33: US 31: 18/345,343 32: 2023-06-30
54: SPACE-BASED SOLAR POWER SYSTEM
00: -
Implementations of the disclosed subject matter provides a system having an artificial light source

disposed at a distance from earth or other celestial body, where the artificial light source is configured to project one or more beams of light onto the earth or other celestial body. The system may include a photovoltaic array disposed in an area on the earth or other celestial body that is 200 m – 20 km or more in any one dimension that is configured to receive the projected one or more beams of light and is configured to convert the received one or more beams of light into electricity.

FIG. 1

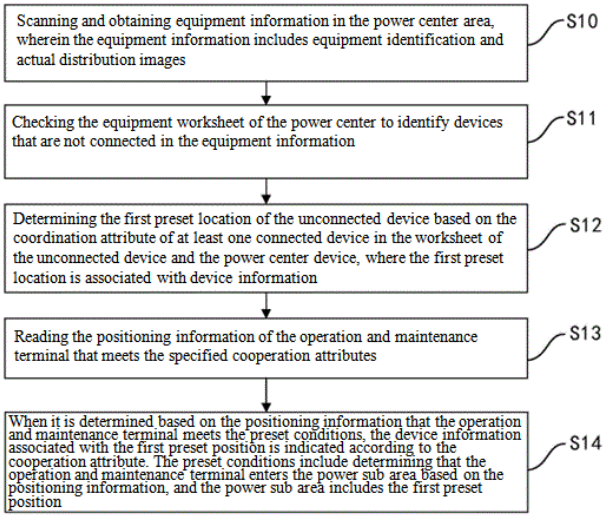


21: 2025/00094. 22: 2025/01/02. 43: 2025/07/14
51: A61K
71: Hunan Kangyao Biotechnology Co., LTD
72: OUYANG Yaoli, LIU Ke, ZHUANG Zhaoyang, LIU Shifeng
33: CN 31: 2023107423237 32: 2023-06-21
54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING ANEMIA, PREPARATION METHOD THEREFOR, AND FORMULATION THEREOF
00: -
A traditional Chinese medicine composition for treating anemia is prepared from the following raw materials in parts by weight: 15-19 parts of Radix Codonopsis, 13-16 parts of Radix Angelicae Sinensis, 10-15 parts of Colla Corii Asini, 8-11 parts of Radix Polygoni Multiflori, 10-14 parts of Fructus Lycii, 11-14 parts of black rice, 5-10 parts of Arillus Longan, 6-8 parts of Poria, 6-8 parts of Rhizoma Dioscoreae, 5-9 parts of Radix Glycyrrhizae, 5-9 parts of Rhizoma Atractylodis Macrocephalae, 6-9 parts of Semen Ziziphi Spinosae, 6-9 parts of Fructus Schisandrae, 4-7 parts of candied date, 3-6 parts of Fructus Crataegi, 5-10 parts of honey, and 2-5 parts of Rhizoma Zingiberis.



21: 2025/00097. 22: 2025/01/02. 43: 2025/07/07
51: G06Q
71: Nanjing Vocational College of Information Technology, TAIYUAN POWER SUPPLY COMPANY OF STATE GRID SHANXI ELECTRIC POWER COMPANY, HEBEI CHIHAI TECHNOLOGY CO., LTD.
72: Zhenfei GU, Ben WANG, Wei YAO, Shuzhen REN, Fan CHEN, Zixuan GU
33: CN 31: 202311427872.1 32: 2023-10-30
54: POWER DATA CENTER MANAGEMENT SYSTEM AND ITS MANAGEMENT METHOD
00: -
The present invention is applicable to the field of computer and provides a power data center management system and a management method thereof. The method includes: scanning and obtaining equipment information in the power center area, wherein the equipment information includes equipment identification and actual distribution images; checking the equipment worksheet of the power center to identify devices that are not connected in the equipment information; determining the first preset location of the unconnected device based on the coordination attribute of at least one connected device in the worksheet of the unconnected device and the power center device, where the first preset location is associated with device information; reading the positioning information of the operation and maintenance terminal that meets the specified cooperation attributes. The technical solution of the embodiment of the present application does not require individual search and inspection, which can improve the

efficiency of coordinated installation between connected and unconnected devices, facilitates the quick association of new devices with computer rooms, cabinets, etc., and adds relevant equipment information to the management platform of the power center.

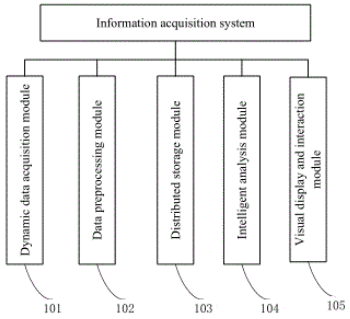


21: 2025/00098. 22: 2025/01/02. 43: 2025/07/07
51: H03F
71: HEBEI CHEMICAL AND PHARMACEUTICAL COLLEGE
72: LI, Xinpan

54: BIG DATA-BASED INFORMATION ACQUISITION SYSTEM FOR SOFTWARE DEVELOPMENT

00: -

The present invention discloses a big data-based information acquisition system for software development, including a dynamic data acquisition module, used for automatically collecting code submission records, task completion status, and defect tracking information in the software development process through APIs and log files; a data preprocessing module, used for formatting and deduplicating acquired raw data, and filling in missing values to ensure raw data quality for subsequent analysis; a distributed storage module, used for storing the preprocessed data into a blockchain system with a distributed data storage method to enable efficient storage and access to mass data; and an intelligent analysis module, used for deeply analyzing data in the distributed storage module using machine learning algorithms to identify software development trends and predict project development risks. The system can monitor software development progress in real time, predict potential issues, and assist in decision-making.



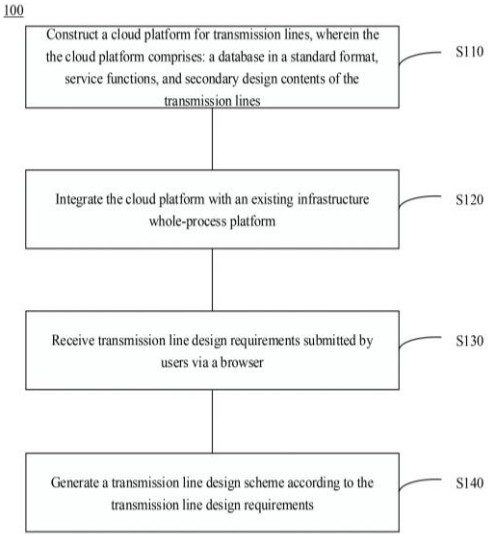
21: 2025/00119. 22: 2025/01/02. 43: 2025/07/14
51: G06F
71: STATE GRID HUNAN ELECTRIC POWER COMPANY LIMITED, YUEYANG ELECTRIC POWER SURVEY AND DESIGN INSTITUTE COMPANY LIMITED, State Grid Hunan Yueyang County Electric Power Supply Company, State Grid Corporation of China
72: GAN, Xing, YAO, Zhenyu, XU, Chang, JIANG, Zhiwen, WANG, Tao, ZHANG, Li, ZHOU, Chuanyi, WU, Yi, YAN, Di
33: CN 31: 202410719576.7 32: 2024-06-05

54: BS ARCHITECTURE-BASED TRANSMISSION LINE CLOUD DESIGN METHOD AND SYSTEM

00: -

The application provides a BS architecture-based transmission line cloud design method and system. The BS architecture-based transmission line cloud design method comprises: constructing a cloud platform for transmission lines; integrating the cloud platform with an existing infrastructure whole-process platform; receiving transmission line design requirements submitted by users via a browser; and generating a transmission line design scheme according to the transmission line design requirements, wherein the cloud platform comprises: a database in a standard format; service functions, including a project management function, a line path selection function, a tower arrangement function, a ground feature plotting function, a verification and analysis function, and a browsing and output function; and secondary design contents of transmission lines, including schematic diagram design, terminal strip diagram design, electrical cable laying design, fiber optic or patch cable laying design, virtual terminal design, and remote scheduling information table design. The method

provided by the application can improve improve transmission line construction efficiency and quality, promote information sharing and collaboration, and bring convenience and benefits for transmission line operation.

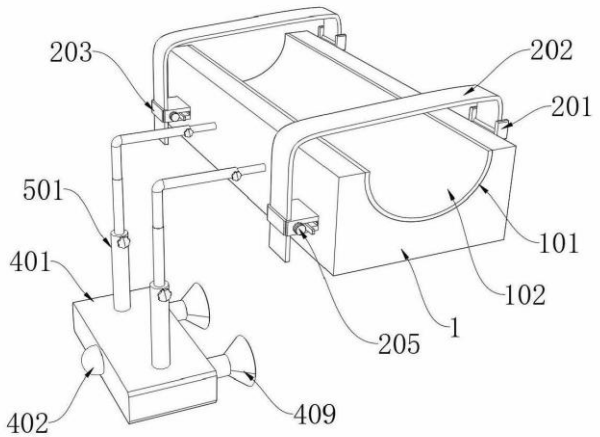


21: 2025/00126. 22: 2025/01/03. 43: 2025/07/08
51: A61K
71: INNER MONGOLIA MEDICAL UNIVERSITY
72: WU, Siqinbilige, BAO, Lechaolu, Wulanqiqige, Nashengsang
54: PROCESSING TECHNOLOGY FOR RADIX ACONITI KUSNEZOFFII MEDICINAL MATERIAL
00: -
The present invention discloses a processing technology for Radix Aconiti Kusnezoffii medicinal material, which comprises the following steps: (1) selecting Radix Aconiti Kusnezoffii medicinal material; and (2) processing: spray-moistening the selected Radix Aconiti Kusnezoffii medicinal material with clean water until there is no dry core inside, and drying at constant temperature of 110℃ for 10 hours to obtain a processed product of Radix Aconiti Kusnezoffii. Advantages: The processing method has the basis of Mongolian medicine literature, conforms to the basic theory of Mongolian medicine, and has good processing effect and strong practicability. The processing method is improved in modernization, convenient for large-scale production, controllable in quality, safe and effective.

21: 2025/00129. 22: 2025/01/03. 43: 2025/07/08
51: G06F
71: HAINAN TROPICAL OCEAN UNIVERSITY
72: YU, Haijie
54: LUBRICATION STATE DETERMINATION METHOD BASED ON CURVE SIMILARITY AND COMPUTER STORAGE MEDIUM
00: -
A lubrication state determination method based on curve similarity and a computer storage medium are provided, which relates to the field of lubrication state detection. The method includes: obtaining frictional vibration signals of a to-be-detected point in directions of x-axis, y-axis and z-axis to obtain an x-axis frictional vibration signal, a y-axis frictional vibration signal, and a z-axis frictional vibration signal; obtaining a first cross-correlation function and a second cross-correlation function in a preset period of time; obtaining a first curve corresponding to the first cross-correlation function and a second curve corresponding to the second cross-correlation function; performing linear fitting on the first curve and the second curve to obtain a fitted curve; comparing the fitted curve with a preset curve to determine curve similarity of the two; and determining a current lubrication state according to the curve similarity.

21: 2025/00138. 22: 2025/01/03. 43: 2025/07/08
51: A61B
71: HANGZHOU MEDICAL COLLEGE
72: HE, Yiyun, ZHANG, Jiaying
54: AUXILIARY SUPPORT FRAME FOR MEDICAL ANESTHESIA
00: -
The invention relates to the field of medical technology, and discloses an auxiliary support frame for medical anesthesia, which includes a support bracket and at least one restraint mechanism. A top portion of the support bracket is provided with a support groove, an outer side of the support bracket is provided with a restraint mechanism, an inner portion of the restraint mechanism is provided with a

locking mechanism, and the outer side of the support bracket is connected with an adsorption mechanism through an adjustment mechanism. The restraint mechanism includes a mounting block, the mounting block is fixedly connected to one side of an outer portion of the support bracket, and a top portion of the mounting block is fixedly connected with a restraint belt. The other side of the outer portion of the support bracket is fixedly connected with a fixing block, and an inner side of the fixing block is provided with a sliding hole. A locking block is moved away by pushing a movable plate to compress a first spring, the restraint belt is inserted into the sliding hole, and the handle is rotated, so as to realize a convenient limb clamping operation. The locking block is clamped on a driving roller by the rebound of the first spring, thus achieving stable restraint and effectively preventing accidental rotation.

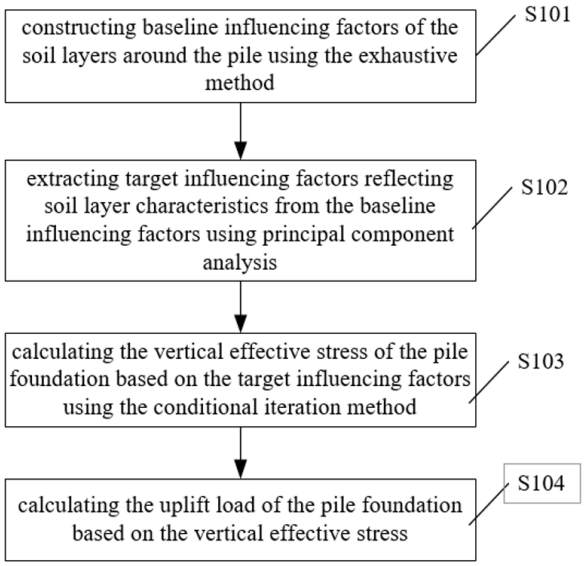


21: 2025/00139. 22: 2025/01/03. 43: 2025/07/08
51: G06F
71: FOSHAN ELECTRIC POWER DESIGN INSTITUTE CO., LTD.
72: Xujian DENG, Yuanjing JI, Yanmin LIU, Xiaolan LU, Nana LV, Ruiqi LI, Hongliang LAI, Li LONG, Zhiyang DU
33: CN 31: 2024105449769 32: 2024-05-06

54: SUBSTATION PILE FOUNDATION UPLIFT LOAD CALCULATION METHOD, COMPUTER DEVICE, AND COMPUTER READABLE STORAGE MEDIUM

00: -

The present invention discloses a method, equipment, and computer readable storage medium for calculating the uplift load of substation pile foundations, relating to the technical field of substations. The method includes: constructing baseline influencing factors of the soil layers around the pile using the exhaustive method; extracting target influencing factors reflecting soil layer characteristics from the baseline influencing factors using principal component analysis; calculating the vertical effective stress of the pile foundation based on the target influencing factors using the conditional iteration method, wherein each iteration adjusts the correction range and confidence interval of the vertical effective stress; and calculating the uplift load of the pile foundation based on the vertical effective stress. By adopting this invention, calculation accuracy is effectively improved, enabling the rapid calculation of pile foundation uplift loads.



21: 2025/00141. 22: 2025/01/03. 43: 2025/07/08
51: A61K
71: Dr. KIRAN CHANDRAKANT MAHAJAN, Mr. ADITYA RAJENDRA SURYAWANSHI, Ms. SUJATA MARUTI SHENDAGE, Ms. ASHLESHA JITENDRA BHUJBAL, Ms. SIDDHI BHAUSAHEB WAVHAL, Ms. KHUSHI BALASAHEB AMBRE, Ms. MAMATA GURUNATH VISHE, Mr. SUSHANT SANTOSH GAIKWAD, Ms. DIVYA MAHADU MAVKAR
72: Dr. KIRAN CHANDRAKANT MAHAJAN, Mr. ADITYA RAJENDRA SURYAWANSHI, Ms. SUJATA MARUTI SHENDAGE, Ms. ASHLESHA JITENDRA BHUJBAL, Ms. SIDDHI BHAUSAHEB WAVHAL, Ms. KHUSHI BALASAHEB AMBRE, Ms. MAMATA

GURUNATH VISHE, Mr. SUSHANT SANTOSH GAIKWAD, Ms. DIVYA MAHADU MAVKAR

54: PREPARATION OF SOLID LIPID NANOPARTICLES FOR ENHANCED CELECOXIB DRUG DELIVERY

00: -

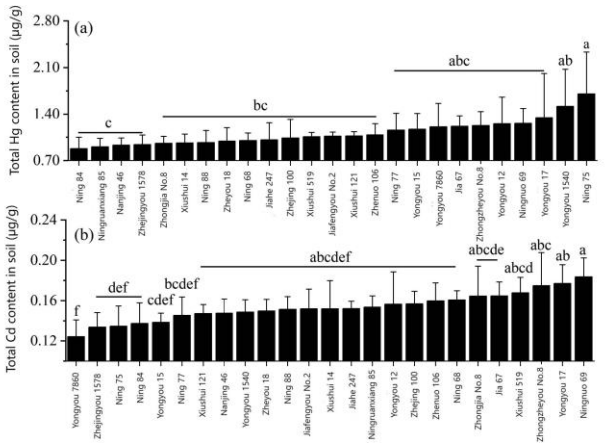
The present invention relates to a solid lipid nanoparticle (SLN) formulation for enhanced delivery of celecoxib, a non-steroidal anti-inflammatory drug (NSAID). The formulation consists of a solid lipid phase, including stearic acid or cetyl palmitate, stabilized by polymers such as polyvinyl alcohol (PVA), hydroxypropyl methylcellulose (HPMC), polycaprolactone (PCL), or polylactic acid (PLA). Celecoxib is incorporated in the lipid phase at concentrations of 5% to 10% by weight. The SLNs exhibit a particle size range of 150 to 180 nm and a zeta potential of ±25 mV to ±35 mV, ensuring stability. With an encapsulation efficiency of at least 80%, the formulation provides controlled release of celecoxib over 24 hours, with up to 90% of the drug released. This SLN formulation offers enhanced drug delivery, sustained release, improved stability, and reduced side effects, making it suitable for treating inflammatory conditions and pain management.

21: 2025/00160. 22: 2025/01/03. 43: 2025/07/08
51: A01C; A01G
71: ZHEJIANG UNIVERSITY
72: SHI, Jiachun, FANG, Kaikai, WANG, Jian, CHEN, Simin, HE, Yan
33: CN 31: 202311468051.2 32: 2023-11-07

54: METHOD FOR SAFE UTILIZATION OF HG/CD CO-CONTAMINATED PADDY FIELDS

00: -

A method for safe utilization of Hg/Cd co-contaminated paddy fields is provided, which belongs to the technical field of rice planting. The method includes the following steps: ploughing the soil of paddy fields according to the characteristics of soil pollution in paddy field; performing soil conditioning on the soil after ploughing; screening low-accumulation rice varieties, and planting the low-accumulation rice varieties in paddy fields after conditioning; performing water management on the paddy fields during rice planting; performing fertilization management on the paddy fields during rice planting; performing a foliar immobilization technique from the 8th-12th day at the beginning of tillering stage to the beginning of jointing stage, booting stage and filling stage of rice; and harvesting rice, to obtain rice grains. The present invention adopts multi-link effective measures to reduce the enrichment effect of Hg/Cd in rice, thereby realizing the safe production of rice in the Hg/Cd co-contaminated paddy fields.



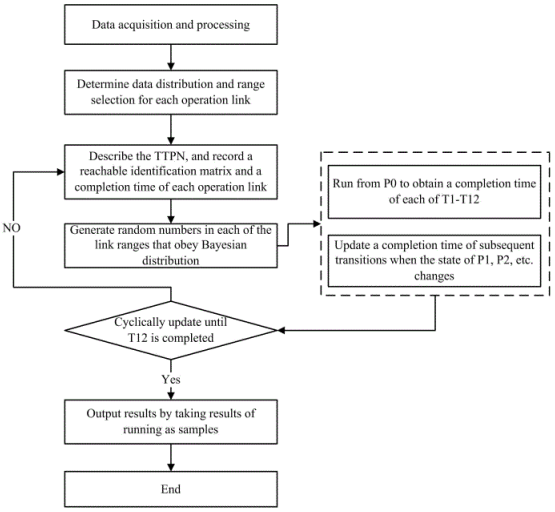
21: 2025/00164. 22: 2025/01/06. 43: 2025/07/08
51: G06F; G06K
71: Civil Aviation University of China
72: CUI, Yanyu, DING, Qingmiao, MA, Linyan

54: DYNAMIC PREDICTION METHOD FOR FLIGHT DEPARTURE TIME, DYNAMIC PREDICTION SYSTEM FOR FLIGHT DEPARTURE TIME AND STORAGE MEDIUM

00: -

The present invention discloses a dynamic prediction method for flight departure time, a dynamic prediction system for flight departure time and a storage medium. The method includes: building a TTPN model by acquiring the ground service process of transit flights; performing normal fitting of prior probability distribution on each of the operation links based on a plurality of historical transit flight data and obtaining joint distribution laws between associated operation links; determining a conditional probability distribution function based on the joint distribution laws and obtaining probabilities of the operation links; determining a value range of each round of conditional probability by combining Monte Carlo simulation, and generating random numbers in each of the value ranges that obey Bayesian distribution; and updating an occurrence sequence of the operation links, and obtaining a departure time point. The method has the

advantages of high prediction accuracy and fast calculation speed.

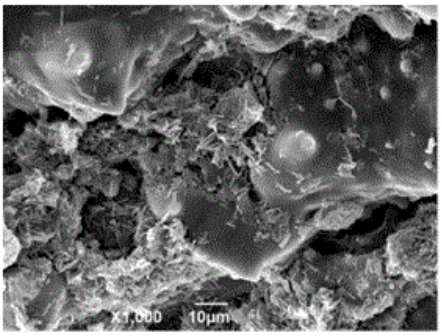


21: 2025/00165. 22: 2025/01/06. 43: 2025/07/09
51: A23K
71: Shanxi Agricultural University
72: ZHANG, Bianying, ZHANG, Yuanqing, ZHANG, Jing, LI, Xi, XU, Fang, WANG, Dongcai, JIN, Guang, WANG, Cheng

54: BIOLOGICALLY FERMENTED FEED FOR BEEF CATTLE MADE FROM AURICULARIA AURICULA SPENT MUSHROOM SUBSTRATE

00: -

The present invention provides a biologically fermented feed for beef cattle made from Auricularia auricula spent mushroom substrate. The feed raw materials of distiller's grains yeast 5 culture include the substrate of the biologically fermented feed made from Auricularia auricula spent mushroom substrate, fermentation agents and compound enzyme preparations, with the dosage ratio being 1000:1:1; where the formula of the feed substrate of distiller's grains yeast culture includes 20 percent of Auricularia auricula spent mushroom substrate, 40 percen of fresh Chinese liquor distiller's grains, 30 percen of red date powder and 10 percen of bran; the 10 fermentation agents include Saccharomyces cerevisiae, Lactobacillus plantarum and Enterococcus faecalis; and the compound enzyme preparations include cellulase and xylanase. The biologically ermented feed for beef cattle made from Auricularia auricula spent mushroom substrate provided by the present invention has the advantages of high nutritional value and good palatability, and may significantly increase the daily weight gain of beef cattle.



21: 2025/00166. 22: 2025/01/06. 43: 2025/07/09
51: A01G
71: Jiangxi Agricultural University
72: YANG, Li, LIU, Yong, LIU, Dechun, HU, Wei, XIONG, Zhonghua, WEI, Qingjiang, KUANG, Liuqing, SONG, Jie

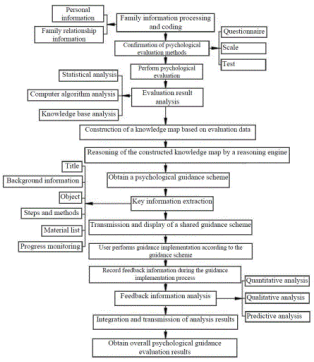
54: METHOD FOR INHIBITING VIGOROUS GROWTH OF SUMMER SHOOTS OF POMELO FRUIT TREES

00: -

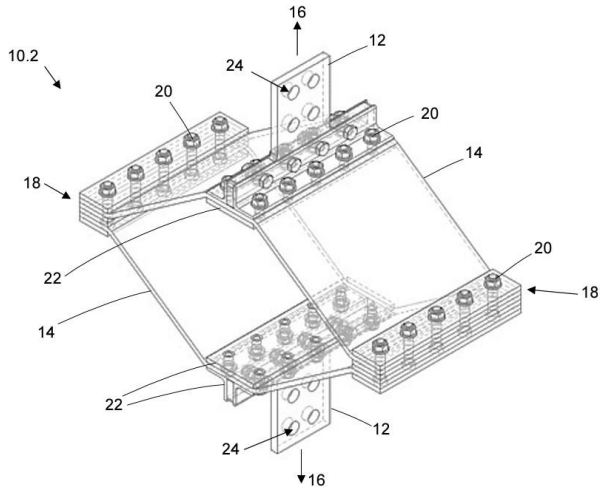
The present invention relates to the technical field of orchard cultivation, and in particular to a method for inhibiting vigorous growth of summer shoots of pomelo fruit trees, including the following steps: 1) nutritional treatment: applying no high-nitrogen fertilizers at a summer shoot germination stage and supplementing leaf surfaces with phosphorus and potassium elements; 2) manual bud removal: when spring shoots mature and summer shoots begin to sprout sporadically, manually removing all tender shoots; and 3) chemical agent treatment: immediately after the manual shoot removal, spraying a summer shoot growth inhibitor twice, with an interval of 14 days. By combining nutritional shoot control, manual shoot removal and chemical shoot control methods, labor-saving, safe and efficient control of summer shoot growth is achieved, the purpose of controlling shoot growth is realized and flowers and fruits are preserved, labor costs are reduced, and the economic benefits of fruits are improved.

21: 2025/00168. 22: 2025/01/06. 43: 2025/07/09
51: G06F
71: JIAXING VOCATIONAL AND TECHNICAL COLLEGE

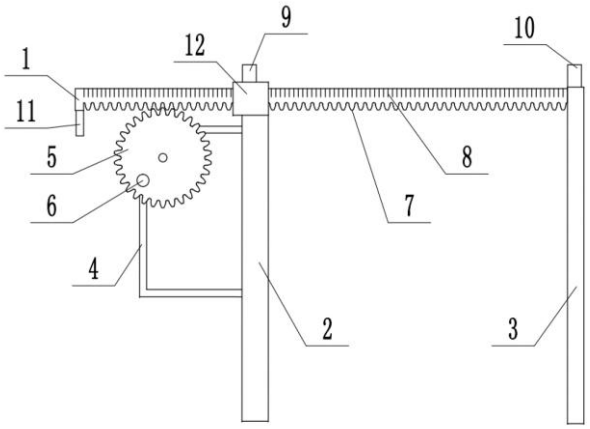
72: YAO, Lanying
54: ASSISTANCE SYSTEM FOR PSYCHOLOGICAL GUIDANCE IN FAMILY EDUCATION
00: -
The present invention discloses an assistance system for psychological guidance in family education, relating to the technical field of psychological guidance assistance. In order to solve the problems of imperfect psychological guidance schemes and inaccurate information acquired in the guidance process, the present application forms a complete analysis flow by quantitative analysis, qualitative analysis, and predictive analysis.



21: 2025/00171. 22: 2025/01/06. 43: 2025/07/09
51: F16D; F16P
71: UKUGALELA TRUST
72: STEPHENSON, Cuan Heldrey
54: MOTION ARRESTER
00: -
A motion arrester (10) is provided to decelerate moving objects or bring them to rest. The motion arrester (10) comprises tensile elements (12), dissipation elements (14), spreader elements (22) and support elements (18). The tensile elements (12) are connected to the dissipation elements (14) with the spreader elements (22). The dissipation elements are also connected to one another via the support elements (18). The tensile elements (12) are configured to receive a tensile load from the moving object and transfer the load to the dissipation elements (14). The dissipation elements (14) deform under the load in order to dissipate the energy of the moving object and bring it to rest.

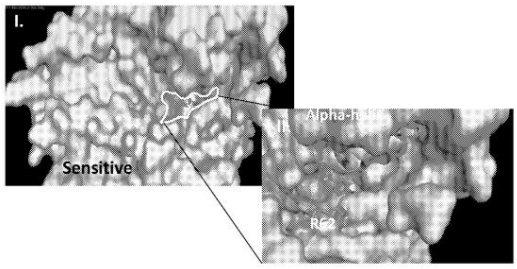


21: 2025/00176. 22: 2025/01/06. 43: 2025/07/09
51: G01B
71: Henan University of Urban Construction
72: LI, Hua, ZHANG, Yingxin, CAI, Jing, YANG, Mingfei, CHEN, Yao, ZHANG, Zilu
54: BUILDING DIMENSION MEASURING DEVICE
00: -
Disclosed is a building dimension measuring device, including a fixed measuring rod, a movable measuring rod, a scale plate, a mounting cylinder, a handheld frame, a drive gear, a laser pointer and a target plate, wherein the mounting cylinder is fixably arranged at the top of the fixed measuring rod, the right end face of the mounting cylinder is aligned with the right side face of the fixed measuring rod, the bottom surface of the scale plate has a rack portion, the scale plate can move horizontally along the inner wall of the mounting cylinder, a limit rod is fixably arranged at the left end of the scale plate, and the left side face of the movable measuring rod is aligned with the zero scale on the scale plate. The present invention facilitates the measurement of the outer diameter of the measured cylindrical building material or structure.



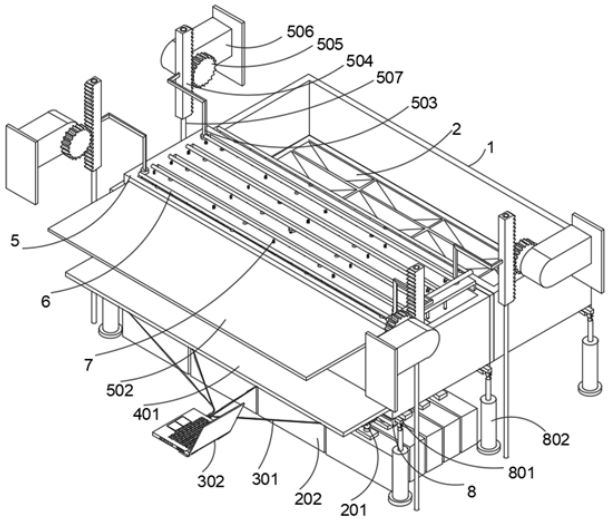
21: 2025/00180. 22: 2025/01/06. 43: 2025/07/09
51: A61K
71: Prof. Gopalakrishna Murthy Talasila, Prof. Lakshmana Rao Atmakuri, Dr. Rajani Vetapalem, Dr. Aminabee Shaik, Ms. Archana Siddabathuni, Prof. Ramesh Alluri, Dr. Vasu Naik Vadithe, Dr. Srinivas Nandyala, Mr. SS Prasanna Kumar Ponnaganti, Ms. Anjali Appala
72: Prof. Gopalakrishna Murthy Talasila, Prof. Lakshmana Rao Atmakuri, Dr. Rajani Vetapalem, Dr. Aminabee Shaik, Ms. Archana Siddabathuni, Prof. Ramesh Alluri, Dr. Vasu Naik Vadithe, Dr. Srinivas Nandyala, Mr. SS Prasanna Kumar Ponnaganti, Ms. Anjali Appala
54: DESIGN AND DEVELOPMENT OF METOPROLOL SUSTAINED RELEASE FORMULATIONS RESISTANT TO ALCOHOL INDUCED DOSE DUMPING
00: -
The present invention relates to a sustained-release metoprolol tablet composition designed to resist alcohol-induced dose dumping. The tablet contains metoprolol tartrate, ethyl cellulose, microcrystalline cellulose, polyvinylpyrrolidone (PVP), magnesium stearate, and talc, with a coating of calcium alginate to prevent rapid drug release in the presence of alcohol. The formulation provides controlled release over an extended period, ensuring consistent therapeutic effects while minimizing the risk of dose dumping. The tablets are tested for their ability to withstand alcohol-induced dose dumping and exhibit stable drug release profiles in both acidic media and phosphate buffer. The preparation method involves granulation, drying, and coating steps, ensuring uniformity and performance consistency across the tablets. This invention offers an effective solution for providing sustained metoprolol delivery while enhancing patient safety and compliance, particularly in cases where alcohol consumption may occur alongside medication.

21: 2025/00205. 22: 2025/01/06. 43: 2025/07/09
51: A01H; A01N; C12N
71: PLANTARC BIO LTD.
72: SHALITIN, Dror, GRIMBERG, Noam, BECHAR, Daniel, COHEN, Tal, KATZ, Aviva, MANDELBAUM, Martin
33: US 31: 63/393,933 32: 2022-07-31
33: US 31: 63/423,001 32: 2022-11-06
54: PROTOPORPHYRINOGEN OXIDASE (PPO) RESISTANCE PLANT
00: -
Disclosed are transgenic plant expressing a fungal protoporphyrinogen oxidase (PPO) enzyme and methods for conferring Herbicide Tolerance (HT) to PPO-type inhibitor herbicides, and controlling weeds, by selectively protecting the transgenic crop expressing the fungal PPO enzyme.



21: 2025/00211. 22: 2025/01/07. 43: 2025/07/09
51: B09B; G01N
71: BGRIMM TECHNOLOGY GROUP
72: PANG, Zhikun, ZHANG, Chi, LI, Fangze, LIN, Xingjie, MIAO, Yu, XIN, Xin, ZHANG, Ge, YANG, Shengyi, LI, Rui
54: TEST SIMULATION DEVICE AND METHOD FOR POLLUTION IMPACTS OF SOLID WASTE CONTAINING HEAVY METALS
00: -
The present invention discloses a test simulation device and method for pollution impacts of solid waste containing heavy metals, falling within the technical field of pollution tests. A simulation box, water collecting funnels and water guide pipes are included. A bottom of the simulation box is connected to a plurality of water collecting funnels, bottoms of the plurality of groups of water collecting funnels are connected to water collecting tanks via the water guide pipes, upper sides of the water

guide pipes are connected to a water quality ion sensor, and one side of the water quality ion sensor is connected to an online monitor via a data line. According to the present invention, soil on-site is collected in an inner part of the simulation box, and field precipitation and illumination are simulated. Simultaneously, soil height is simulated with adjustment cylinders.

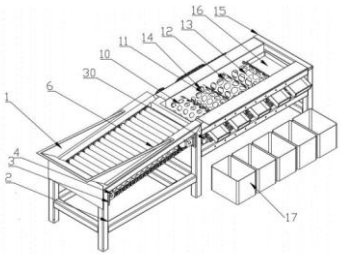


21: 2025/00212. 22: 2025/01/07. 43: 2025/07/09
51: A61K; A61P
71: Shandong Medical College
72: LI, Xia, DONG, Zhen, XIAO, Guofeng, LIANG, Chen, CHEN, Yun, XIANG, Lili, LI, Wei, CHEN, Rui
33: CN 31: 202410119954.8 32: 2024-01-29
54: TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING INFANTILE PNEUMONIA AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF
00: -
The present invention provides a traditional Chinese medicine composition for treating infantile pneumonia as well as a preparation method and an application thereof. The traditional Chinese medicine composition is prepared by 11 traditional Chinese medicines: Herba Ephedrae (processed), Poria cocos, Rhizoma Pinellinae Praeparata, Persicae Semen, Salvia miltiorrhiza, Cynanchum glaucescens, Radix Peucedani, Sculellaria barbata, Raw Hordei Fructus Germinatus, Pheretima and Glycyrrhizae Radix et Rhizoma Praeparata Cum Melle, wherein the Herba Ephedrae (processed) is used as a sovereign medicine; the Poria cocos, the Rhizoma Pinellinae Praeparata, the Persicae Semen, the Salvia miltiorrhiza, the Cynanchum glaucescens and the Radix Peucedani are ministerial medicines; the Sculellaria barbata, the Raw Hordei Fructus Germinatus and the Pheretima are combined as adjuvant medicines; the Glycyrrhizae Radix et Rhizoma Praeparata Cum Melle is a conductant medicine. The components have the effects of anti-inflammation, cough relieving, fever reduction, sputum reduction, and synergistic physique enhancement.

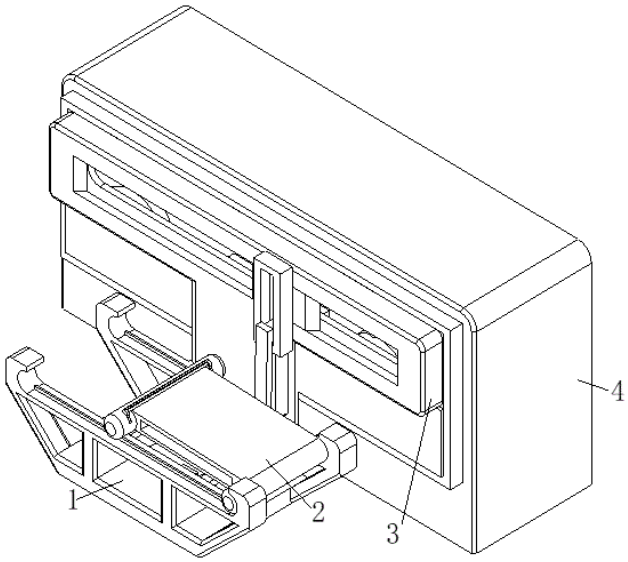
21: 2025/00213. 22: 2025/01/07. 43: 2025/07/09
51: A01G
71: SHANGHAI ACADEMY OF AGRICULTURAL SCIENCES
72: WU, Xuexia, ZHANG, Aidong, XIAO, Kai, ZHA, Dingshi, ZHOU, Yaru
54: METHOD FOR IMPROVING YIELD AND QUALITY OF EGGPLANT SEED PRODUCTION
00: -
The present invention provides a method for improving the yield and quality of eggplant seed production, belonging to the technical field of crop seed production. The method of the present invention includes: spraying 2 mL/mu to 4 mL/mu of growth-promoting agent I at the flowering and fruit-setting stage of eggplant, where the growth-promoting agent I is composed of 28 percent of mepiquat chloride, 35 percent of lanthanum nitrate, and the balance of water by mass percentage; spraying 1 mL/mu to 3 mL/mu of growth-promoting agent II at the fruiting stage, where the growth-promoting agent II is composed of 20 percent to 30 percent of mepiquat chloride, 20 percent to 40 percent of lanthanum nitrate, and the balance of water by mass percentage; and spraying 56 mmol/L of betaine on the 7th day after the spraying of the growth-promoting agent II.

21: 2025/00215. 22: 2025/01/07. 43: 2025/07/10
51: B07B
71: Anhui Science And Technology University, Chuzhou Hetian Agricultural Machinery Co., Ltd.
72: ZHANG, Chunyan, YANG, Sai, QIAO, Yinhu, AI, Zhiyun, LI, Yunfei, SUN, Zhicheng, LIAO, Junling
54: FRUIT SIZE SORTING MACHINE
00: -
Disclosed is a fruit size sorting machine. A feeding guard plate is mounted on a feeding bracket; a motor is mounted on the feeding bracket; a feeding

area bearing seat is mounted on a bracket support plate; a feeding shaft is mounted on the feeding area bearing seat; a gear is mounted on the feeding shaft; rollers are mounted on a chain assembly; the chain assembly is mounted on the gear and a feeding sprocket; a motor sprocket is mounted on the motor; the feeding sprocket is connected to the motor sprocket through a chain; a first-level drum sprocket is connected to the motor sprocket through a chain; a second-level drum sprocket is connected to the first-level drum sprocket through a chain; a third-level drum sprocket is connected to the second-level drum sprocket through a chain; a fourth-level drum sprocket is connected to the third-level drum sprocket through a chain.

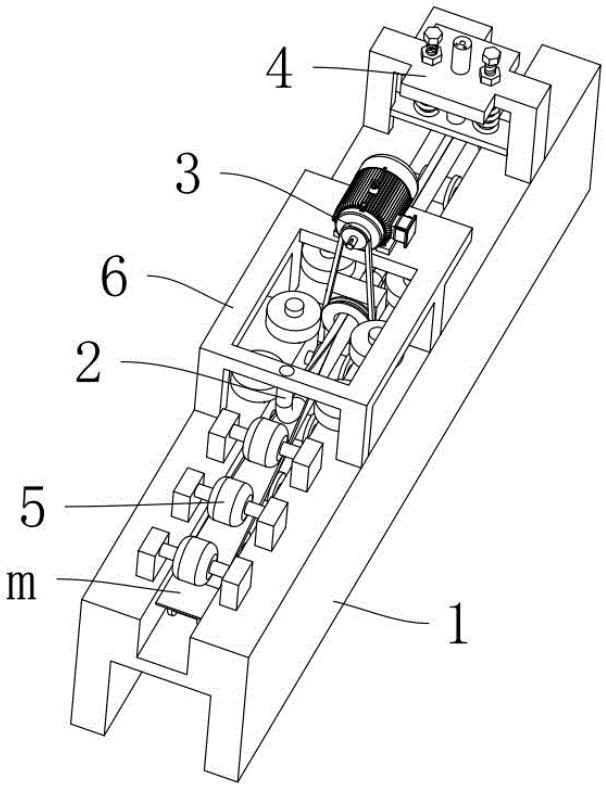


21: 2025/00223. 22: 2025/01/07. 43: 2025/07/10
51: B08B
71: NANING VOCATIONAL COLLEGE OF INFORMATION TECHNOLOGY
72: Fan CHEN, Zhenfei GU, Hongyan WANG, Anli JIANG, Wei YAO, Ben WANG, Zihe CHEN, Xiangshu WU
33: CN 31: 202411365065.6 32: 2024-09-29
54: APPARATUS FOR CLEANING SURFACE OF ELECTRONIC CIRCUIT BOARD BASED ON PRINCIPLE OF ELECTROSTATIC ADSORPTION
00: -
The present invention relates to the technical field of electronic circuit board cleaning, and specifically, to an apparatus for cleaning a surface of an electronic circuit board based on a principle of electrostatic adsorption. The apparatus includes a sliding bracket, an adsorption plate, a driving assembly, and a housing. The sliding bracket is mounted on a side wall of the housing, the adsorption plate is slidably mounted at an upper end of the sliding bracket, the adsorption plate is clamped with the driving assembly, and the driving assembly is mounted in the housing. The adsorption plate cleans the electronic circuit board through an electrostatic generator disposed internally, the adsorption plate is driven to move and flip through the driving assembly, and the adsorption plate performs self-cleaning through self gravity after cleaning the electronic circuit board. According to the present invention, the adsorption plate may flexibly move and flip through designs of the sliding bracket and the adsorption plate, and the adsorption plate can implement self-cleaning through self gravity of a cleaning plate after cleaning the circuit board during cleaning, to reduce accumulation of impurities, thereby prolonging a service life of the apparatus.



21: 2025/00227. 22: 2025/01/07. 43: 2025/07/10
51: B23P
71: Zhejiang Shengjie Titanium Technology Co., Ltd.
72: Shengjie Wang, Tengyu Yang, Xinyue Chen, Yulin Zhou, Yitao Fan, Shouhan Wang, Xiaowen Sun
33: CN 31: 2024106480877 32: 2024-05-23
54: AUTOMATIC WELDING EQUIPMENT FOR STAINLESS STEEL PIPE
00: -
The invention belongs to the technical field of stainless steel pipe manufacturing, and specifically refers to automatic welding equipment for stainless steel pipe, the internal support preheating mechanism including a front support mandrel, a preheating coil and a rear mandrel; the front support mandrel is in the shape of a curved tube; the curved tube end of the front support mandrel is penetrated on the central bracket; horizontal end of the front support mandrel is penetrated in an extruded steel tube; the preheating coil is arranged at the horizontal end of the front support mandrel; and the rear

mandrel is penetrated through the center of the preheating coil, the rear mandrel is arranged in the front support mandrel, the type and quantity of the pressing roller module are determined by the specifications of the steel pipe. The present invention adopts the setting of an internal support preheating mechanism, it can not only preheat the stainless steel plate before welding, but also reduce the deformation of the pipe caused by welding. At the same time, through the setting of a cleaning mechanism, the weld can be cleaned before welding to improve the quality of the weld.

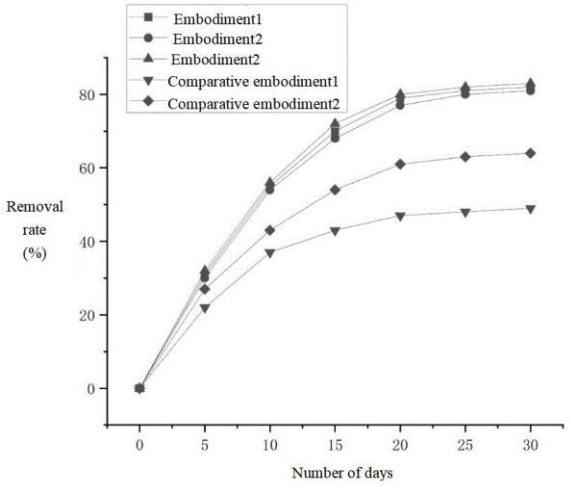


21: 2025/00228. 22: 2025/01/07. 43: 2025/07/10
51: C09K
71: Suzhou University
72: Weihong Lu, Yaofang Wang

54: SOIL CONDITIONER FOR ENHANCING MICROECOLOGICAL BALANCE OF THE SOIL AND A PREPARATION METHOD THEREOF

00: -

The invention discloses a soil conditioner for enhancing microecological balance of the soil and a preparation method thereof, said soil conditioner comprises the following components by weight: 30-50 parts of organic fertilizer, 10-30 parts of microbial agent, 3-5 parts of humic acid, and 5-8 parts of diatomaceous earth; the invention improves the stability of the biochar by modifying the biochar with iron and montmorillonite, and at the same time it uses modified biochar, sodium alginate and polyvinyl alcohol as a composite carrier to load Bacillus subtillis to improve degradation effect of the Bacillus subtilis, thereby reducing the toxicity of heavy metals in the soil and promoting soil microecological balance.



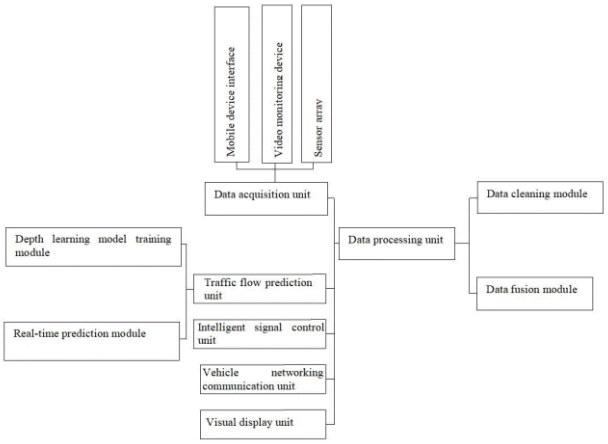
21: 2025/00230. 22: 2025/01/07. 43: 2025/07/10
51: G08G
71: Huzhou College
72: Nai Wei, Li Dan, Yang Zan

54: INTELLIGENT TRANSPORTATION SYSTEM BASED ON BIG DATA

00: -

The present application discloses an intelligent transportation system based on big data, falling within the technical field of transportation systems. The present application includes a data acquisition unit, for collecting information including traffic flow data, vehicle position, speed and type; a data processing unit, for pre-processing the collected data, including missing value processing, abnormal value processing and repeated value processing. In the present application, by integrating advanced data acquisition, processing and prediction technologies, the efficiency and safety of the traffic command system are significantly improved; and in view of the problem of a large vehicle blocking the line of sight when passing through the intersection, the signal light state information is sent to the vehicle in real time via the vehicle networking

communication unit, to ensure that the driver of the rear vehicle can timely obtain a signal light change even when the line of sight is blocked, thereby timely starting the rear vehicle to pass through the intersection. Meanwhile, the intelligent signal control unit is set to dynamically adjust the time sequence of signal lights according to real-time traffic flow, reduce the waiting time of the vehicle and improve the traffic efficiency at the intersection.

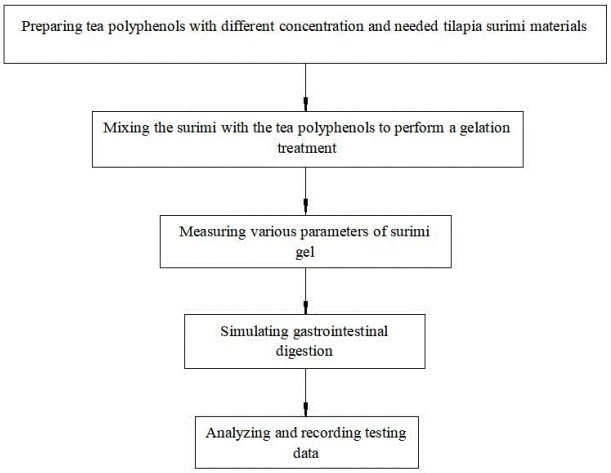


21: 2025/00231. 22: 2025/01/07. 43: 2025/07/10
51: A23L
71: Hainan Tropical Ocean University
72: Hang Yuyu, Zhang Yang, Huang Qiongmei

54: TEST METHOD FOR EFFECTS OF TEA POLYPHENOLS ON GEL PROPERTIES OF TILAPIA SURIMI

00: -

The present application discloses a test method for effects of tea polyphenols on gel properties of tilapia surimi, relating to the technical field of surimi gel. The present application includes the following steps: step 1, preparing fresh tilapia, removing bones and skins into surimi, and preparing tea polyphenols solutions with different concentrations of 0, 0.04%, 0.08%, 0.12%, 0.16% and 0.20% respectively; and step 2, dividing the surimi into several groups, and adding the tea polyphenols solutions with different concentrations into each group. In the present application, tea polyphenols are added to tilapia surimi to effectively inhibit oxidative degradation of protein in the surimi and slow down a quality deterioration process by using strong antioxidant ability of the tea polyphenols. At the same time, physical and chemical properties of tea polyphenols enable the tea polyphenols interact with protein in surimi, change spatial conformation and charge state of the protein, and further enhance elasticity and water holding capacity of the surimi gel, improve gel strength, and make surimi products more stable in processing and storage.



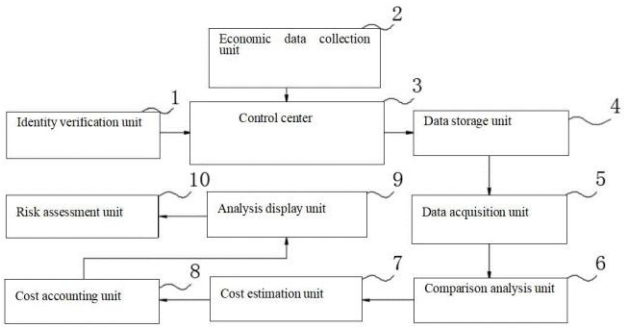
21: 2025/00232. 22: 2025/01/07. 43: 2025/07/10
51: G06Q
71: Hainan Vocational University of Science and Technology
72: Hu Siyang, Tan Xianjiao

54: SYSTEM FOR ENTERPRISE INTERNAL ECONOMIC MANAGEMENT COST CONTROL

00: -

The present invention provides a system for enterprise internal economic management cost control includes an identity verification unit, an economic data acquisition unit, a control center, a data storage unit, a data acquisition unit, a comparison analysis unit, a cost estimation unit, a cost accounting unit, an analysis display unit and a risk assessment unit, falling within the field of economic cost control technology. The internal economic management cost control system of the enterprise can be performed detailed cost estimation and accounting through the cost estimation unit and the cost accounting unit, measuring and evaluating the accounted cost information through the risk measurement module, evaluating the risk level through the risk comparison module and the corresponding set value, and evaluating the risk level through the risk level classification module. Compared with manual control by making electronic sheets, the cost control and monitoring in the real sense can be realized, avoiding many loopholes in

manual operation, and having higher automation degree and high operation convenience.

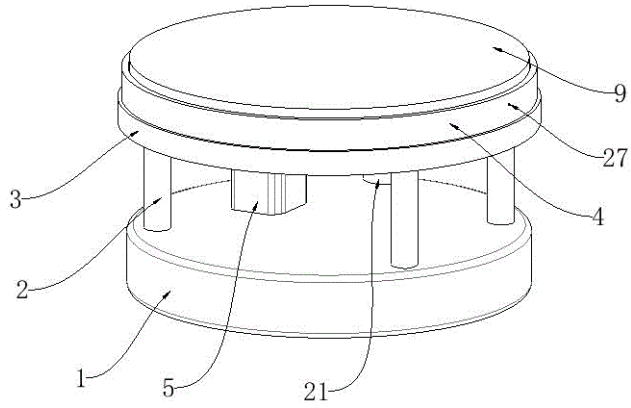


21: 2025/00233. 22: 2025/01/07. 43: 2025/07/10
51: B25J
71: Shenyang Engine Research Institute
72: Ding Xiaoxu, Guo Qiang, Zhao Yijian, Wang Fei, Zeng Shan, Chen Zuxin, Ma Xinrui

54: ROTATING MACHINERY AND CONTROL METHOD THEREFOR

00: -

Disclosed are a rotating machinery and a control method therefor in the present application, relating to the technical field of rotating machinery. In the present application, a support base is included, an upper end of the support base is fixed to support columns, upper ends of the support columns are fixed to a mounting seat, an upper end of the mounting seat is fixed to a protective shell body, an lower end of the mounting seat is fixed to a rotating electric machine, an output end of the rotating electric machine extends out of the mounting seat and is fixed to a rotating gear I, the upper end of the mounting seat is fixed to a fixing ring, a rotating gear II is rotatably connected to the fixing ring, the rotating gear I is meshed with the rotating gear II, a diameter of rotating gear I is smaller than a diameter of rotating gear II, an upper end of the rotating gear II is fixed to a rotating table, and a lubrication structure is arranged on the mounting seat, realizing lubrication for the rotating gear I and rotating gear II, reducing abnormal sound when the rotating machinery is working, and making the rotating machinery run more smoothly.

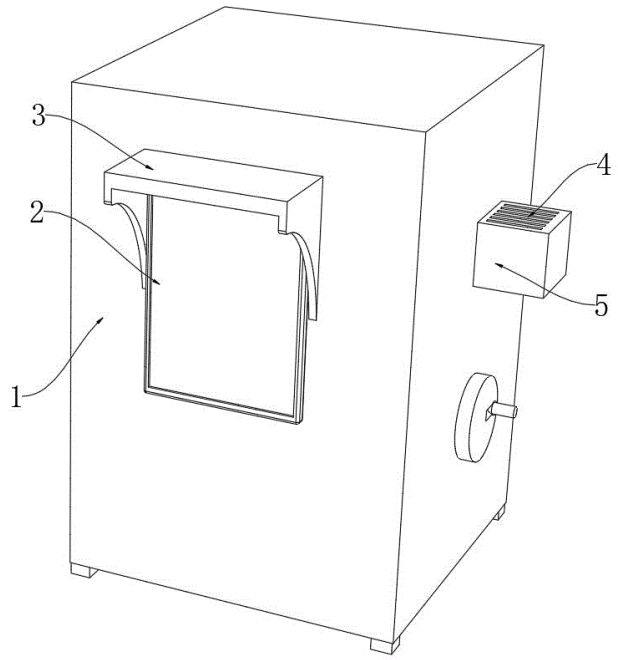


21: 2025/00234. 22: 2025/01/07. 43: 2025/07/10
51: H04M
71: Xinyu University
72: Liu Mingqi, Li Shiwen, Liu Xueping, Liu Jinhua, Luo Haiyong, Liu Zeqi

54: TERMINAL INTELLIGENT CONTROL PLATFORM FOR COMPUTER POWER

00: -

The present invention provides a terminal intelligent control platform for computer power, including a casing. A front side of the casing is arranged with a control panel, and a top of the control panel is fixedly connected to a canopy, inner walls of the casing are fixedly connected to a support bracket, a bottom end of the support bracket is rotatably connected to a lead screw, and a bottom end of the lead screw penetrates through and is threadedly connected to a threaded sleeve, a bottom end of the threaded sleeve is fixedly connected to a connecting plate, and the connecting plate is slidably connected to inner walls of the casing. In the present invention, by rotating the lead screw, the support bracket lifts the casing, exposing caster wheels, which drives the device to move.

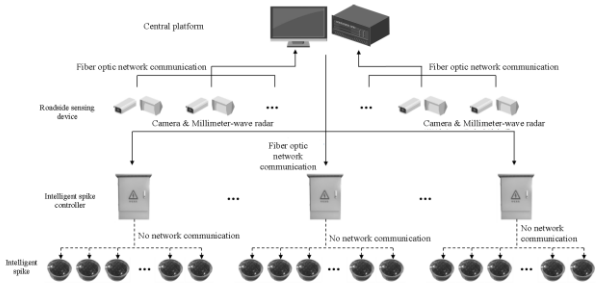


21: 2025/00254. 22: 2025/01/07. 43: 2025/07/10
51: B61L; B65G
71: TECH TRAFFIC ENGINEERING GROUP COMPANY LIMITED
72: PENG, Min, TAN, Xiaogang, FAN, Dongnan, WEI, Yunfeng, WANG, Yuan, FENG, Wei

54: LANE-LEVEL SAFETY WARNING SYSTEM AND METHOD BASED ON INTELLIGENT SPIKE

00: -

The present invention discloses a lane-level safety warning system and method based on an intelligent spike, and relates to the technical field of intelligent highways. The system includes: a roadside sensing device, a central platform, an intelligent spike, and an intelligent spike controller; wherein the roadside sensing device is used to detect road traffic events in a preset range and upload traffic detection information to the central platform; the central platform generates alarm information based on the traffic detection information and sends the alarm information to the intelligent spike controller; the intelligent spike controller generates an adjustment instruction for flashing frequency and light color based on the alarm information and sends the adjustment instruction to an intelligent spike in a corresponding area; and the intelligent spike changes a combination of flashing frequency and different light colors based on the received adjustment instruction so as to achieve safety warning under different traffic event scenarios. According to the present invention, the lane-level safety warning information under different scenarios can be released by the intelligent spike, the driving risk warning capability under highway traffic events is improved, and casualties and economic and property losses are reduced.



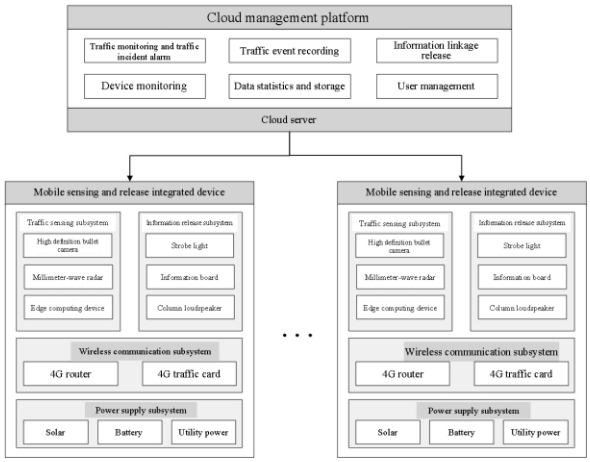
21: 2025/00255. 22: 2025/01/07. 43: 2025/07/10
51: H04W
71: TECH TRAFFIC ENGINEERING GROUP COMPANY LIMITED
72: GUO, Xiaowei, ZHANG, Wei, AN, Zeping, HE, Jing, ZHANG, Bowen, WANG, Bo

54: MOBILE MONITORING SYSTEM SUITABLE FOR EXPRESSWAY

00: -

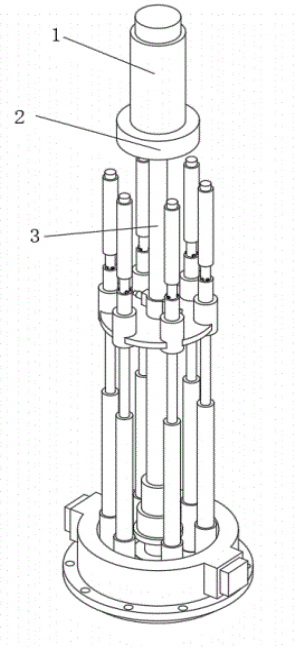
The present invention discloses a mobile monitoring system suitable for an expressway, which is applied to the technical field of expressway monitoring. The system includes a mobile sensing and release integrated device and a cloud management platform. The mobile sensing and release integrated device includes a traffic sensing subsystem, an information release subsystem, a wireless communication subsystem, and a power supply system; the traffic sensing subsystem is used to monitor traffic operation states and traffic incident information, the information release subsystem is used to prompt the traffic incident information, the wireless communication subsystem is used to achieve data communication interaction of the cloud management platform, and the power supply subsystem provides power for the mobile sensing and release integrated device. According to the present invention, all-weather traffic monitoring and real-time release of detection information are achieved by applying a mobile sensing and release integrated device; and a cloud management platform is provided, which supports cloud platform video display, alarm and

recording of traffic events, and setting and central control of information release plans.



21: 2025/00263. 22: 2025/01/08. 43: 2025/07/10
51: A01N
71: Cash Crop Research Institute of Jiangxi Province
72: CUI, Aihua, SUN, Liangqing, HU, Qixing, BAI, Zhigang, LIU, Shuai, SUN, Julong
54: PLANT-SOURCED INSECTICIDE AND PREPARATION METHOD AND APPLICATION THEREOF
00: -
The present invention relates to the technical field of plant protection, and particularly to a plant-sourced insecticide and a preparation method and application thereof. Active ingredients of the insecticide are a Polygonum hydropiper juice, a Melia azedarach juice, a Lycianthes lysimachioides juice, and a Flaveria bidentis juice. The prevention and control effect of the botanical insecticide of the present invention on cabbage moths of the Lepidoptera insects is equivalent to that of spinosad after 7 days of spraying; the prevention and control effect of the plant-sourced insecticide of the present invention on Spodoptera litura of the Lepidoptera insects is superior to that of emamectin benzoate + indoxacarb after 7 days of spraying. The plant-sourced insecticide of the present invention, as an environmentally friendly and pollution-free insecticide obtained from natural plants, has the advantages of cost saving, environmental protection, green development, and sustainable agriculture.

21: 2025/00264. 22: 2025/01/08. 43: 2025/07/10
51: G01V
71: Chaidamu Comprehensive Geological and Mineral Exploration Institute of Qinghai Province (Chaidamu Basin Key Laboratory of Salt Lake Resource Exploration and Research of Qinghai Province)
72: HUANG, Guobiao, JIAO, He, MA, Wei, MA, Zhanqing, YE, Fuyuan, QI, Shanzhi, CUI, Qiangqiang, QUAN, Chaojun
54: EXPLORATION METHOD FOR TIN-BERYLLIUM ORE
00: -
The present invention relates to the technical field of tin-beryllium ore exploration, and in particular to an exploration method for tin-beryllium ore. The exploration method includes: S1: observing a geological condition according to an observation method; S2: then carrying out general exploration by means of an exploration instrument; S3: collecting a sample, and analyzing contents of tin and beryllium; and S4, carrying out excavation processing by means of a large apparatus. The tin-beryllium ore is conveniently explored by means of structure configurations.



21: 2025/00268. 22: 2025/01/08. 43: 2025/07/10
51: A61K
71: SERUM INSTITUTE OF INDIA PRIVATE LIMITED
72: PISAL SAMBHAJI SHANKAR, ANNAMRAJU DATTATREYA SARMA, AVALASKAR NIKHIL DATTATRAY, CHAVAN VISHAL BHARAT,

SHIRODE AMIT ANANDRAO, DHERE RAJEEV MHALASAKANT, POONAWALLA ADAR CYRUS, POONAWALLA CYRUS SOLI

54: IMPROVED IMMUNOGENIC COMPOSITIONS AGAINST ENTERIC DISEASES AND METHODS FOR ITS PREPARATION THEREOF

00: -

The present invention is related to an immunogenic vaccine composition wherein the immunogenic composition comprises: a) a bivalent polysaccharide–protein conjugate vaccine comprising or consisting of a Salmonella enterica serovar typhi saccharide-carrier protein (CP) conjugate antigen and a Salmonella enterica serovar Paratyphi A saccharide- carrier protein (CP) conjugate antigen; b) a sugar selected from the group of sucrose, mannitol, trehalose, mannose, raffinose, lactitol, lactobionic acid, glucose, maltulose, iso-maltulose, maltose, lactose sorbitol, dextrose, fructose, glycerol, or a combination thereof, c) a buffering agent selected from the group consisting of carbonate, phosphate, acetate, HEPES, Succinate, Histidine, TRIS, borate, citrate, lactate, gluconate, tartrate, HEPES, piperazine-N, PIPES, and 2-ethanesulfonic acid (MES), and d) an aqueous solution.

21: 2025/00269. 22: 2025/01/08. 43: 2025/07/11
51: A61K; B29C
71: SHANXI AGRICULTURAL UNIVERSITY
72: ZHANG, Bianying, ZHANG, Yuanqing, LI, Bo, JIN, Guang, WANG, Dongcai, XU, Fang, LI, Xi

54: MILDEW-REMOVING AGENT WITH WALNUT SHELL FOR FEED, PREPARATION METHOD AND APPLICATIONS THEREOF, AND METHOD FOR REMOVING MILDEW FROM FEED

00: -

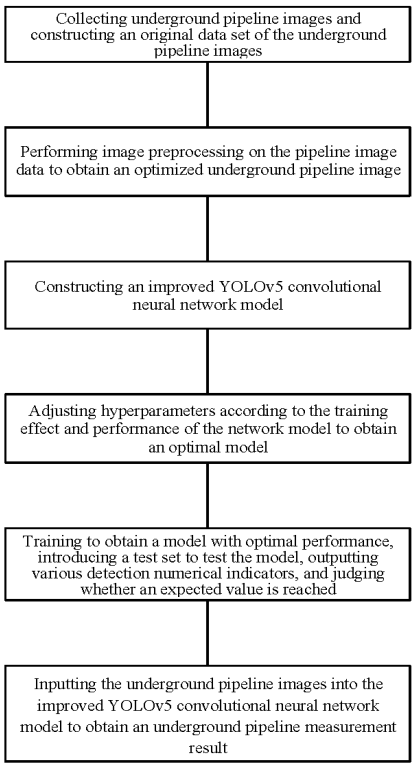
A mildew-removing agent with walnut shell for feed, a preparation method and applications thereof, and a method for removing mildew from feed are provided, which belongs to the technical field of feed additives. The mildew-removing agent with walnut shell for feed of the present disclosure includes walnut shell powder 150~600 parts, montmorillonite powder 200~400 parts, zeolite powder 100~350 parts, and yeast culture 50~200 parts. The mildew-removing agent with walnut shell for feed prepared by the present disclosure can improve the adsorption and/or removal effect of mycotoxins on the premise of reducing the production cost, with the advantages of strong removal ability, low production cost and high safety.

21: 2025/00270. 22: 2025/01/08. 43: 2025/07/11
51: G01S
71: BEIJING SOCIETY OF SURVEYING AND MAPPING, BEIJING FORESTRY UNIVERSITY, BEIJING INSTITUTE OF SURVEYING AND MAPPING DESIGN
72: YANG, Bogang, FAN, Guangpeng, WANG, Miao, WU, Shuang, ZHANG, Yi, LIU, Fengzhu, ZHANG, Shuangshuang, QI, Yongliang, WANG, Yongguo, YU, Tiantian, XING, Xiaojuan, CAI, Cai, GUO, Jiani, XU, Liangliang, ZHAO, Haoran

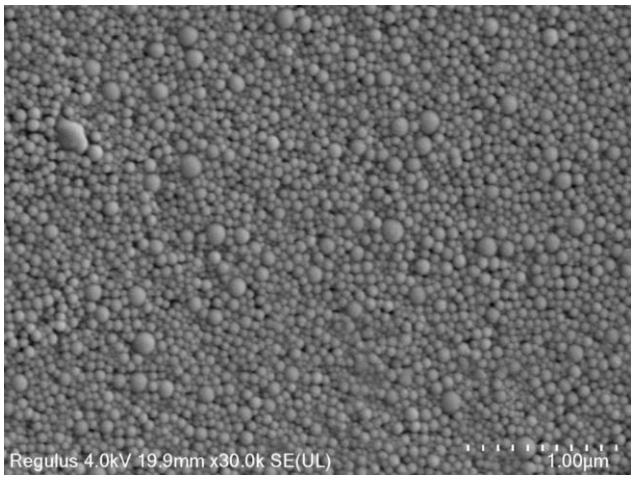
54: UNDERGROUND PIPELINE MEASURING METHOD

00: -

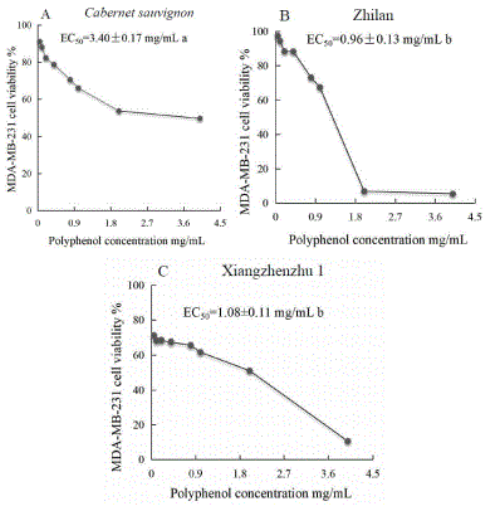
The present invention discloses an underground pipeline measuring method, and relates to the technical field of deep learning neural networks and measurements. The underground pipeline measuring method includes: collecting underground pipeline images, and constructing an original data set of the underground pipeline images; performing image preprocessing on the pipeline image data to obtain an optimized underground pipeline image; annotating the optimized underground pipeline image to generate label files of underground pipelines, and dividing the label files into a training set, a verification set and a test set; constructing an improved YOLOv5 convolutional neural network model; initializing the network model, setting hyperparameters, and training the model; adjusting the hyperparameters according to the training effect and performance of the network model to obtain an optimal model; training the optimal model, introducing the test set to test the model, outputting various detection numerical indicators, and judging whether an expected value is reached; and inputting the underground pipeline images into the improved convolutional neural network model to obtain an underground pipeline measurement result. The improved YOLOv5 model according to the present invention has high practicality and accuracy in underground pipeline detection.



21: 2025/00277. 22: 2025/01/08. 43: 2025/07/11
51: C09B
71: Huangshan Jiajia Fluorescent Materials Co., Ltd
72: Wang Jimin, Zhang Liping, Wang Chongjian, Pan Jianming, Zhou Yan, Yu Shibin
33: CN 31: 202311632998.2 32: 2023-12-01
54: NANO FLUORESCENT LATEX PIGMENT WITH HIGH FLUORESCENCE INTENSITY AND HIGH STABILITY AND PREPARATION METHOD THEREFOR
00: -
Disclosed are a nano fluorescent latex pigment with high fluorescent intensity and high stability and a preparation method therefor in the technical field of fluorescent pigments. An oil phase and an aqueous phase are included. The oil phase includes 0.8 to 0.9 wt% of fluorescent dye, 40 to 45 wt% of polymer monomer, 0.2 to 0.22 wt% of co-emulsifier, and 0.2 to 0.22 wt% of initiator. The aqueous phase includes 5 to 7 wt% of mixed emulsifier, and 0 to 0.3 wt% of sodium bicarbonate, with the balance being water. The preparation method for the nano fluorescent latex pigment includes four steps, namely, oil phase preparation, aqueous phase preparation, mini-emulsion preparation, and mini-emulsion polymerization. In the present disclosure, a nano fluorescent latex pigment with high fluorescence intensity, small particle size, uniform distribution, and good dispersion stability is successfully prepared, thereby expanding the application range of nano fluorescent latex pigments.



21: 2025/00307. 22: 2025/01/09. 43: 2025/07/11
51: A61K
71: Taishan University
72: LI, Cuixia, ZHAO, Xianhua, ZHAN, Jieli
54: APPLICATION OF SPINE GRAPE (VITIS DAVIDII FOEX) WINE PHENOLS IN PREPARATION OF ANTIOXIDANT AND CANCER CELL PROLIFERATION RESISTANT HEALTH CARE PRODUCTS
00: -
Provided is the application of spine grape (Vitis davidii Foex) wine phenols in the preparation of antioxidant and cancer cell proliferation resistant health care products, which belongs to the technical field of health care products. Spine grape wine contains a high content of phenolic compounds and has antioxidant capacity, and the content of phenolic compounds is significantly correlated with the antioxidant capacity. Inhibitory effects of three types of wine polyphenols on breast cancer cells MDA-MB-231 are analyzed by MTT assay, and results show that the inhibitory effect of the spine grape wine on cancer cell proliferation is significantly higher than that of the Cabernet sauvignon wine, and the inhibition rate of the spine grape wine is approximately twice that of the Cabernet sauvignon wine. The Zhilan wine polyphenols exhibit the highest inhibition rate, reaching 94.68 percent.

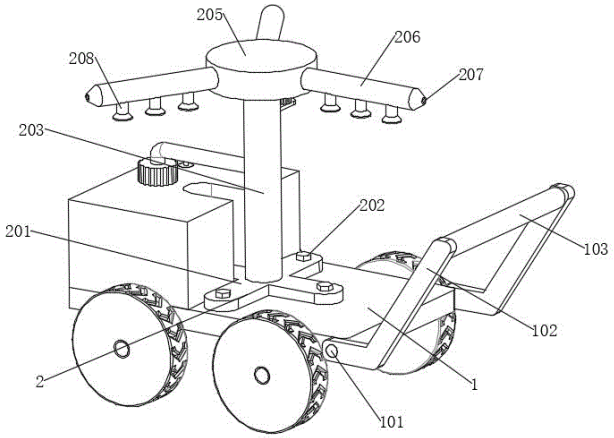


21: 2025/00308. 22: 2025/01/09. 43: 2025/07/11
51: B01D
71: Henan University of Urban Construction
72: Wei Guo, Xiaohui Li, Yaqiong Dong, Zhixia Fu, Chaoyang Jie, Kunhao Zhang, Kewang Zhu, Senchun Jia

54: A DUST SUPPRESSION DEVICE FOR CONSTRUCTION ENGINEERING

00: -

The invention discloses a dust suppression device for construction engineering, relating to the technical field of construction engineering. The invention includes a push plate, and the outer wall of the push plate is fixedly connected with several fixing rods. The outer wall of the fixing rods is fixedly connected with connecting inclined plates. By setting a water tank on the push plate, when the equipment needs to be used, the clamping plug is opened to add clean water to the water tank, and then the clamping plug is inserted. Subsequently, the handle is pushed, and when the handle is pushed, it drives the connecting inclined plates, causing the fixing rods to drive the push plate as a whole, making multiple hubs start to move. After pushing it to the desired location, the connecting shafts are rotated to disengage them from the push plate, loosening the cross fixing frame as a whole. The cross fixing frame is then removed from the push plate as a whole, achieving convenient transportation and installation of the equipment, and enabling dust suppression treatment at the construction site.

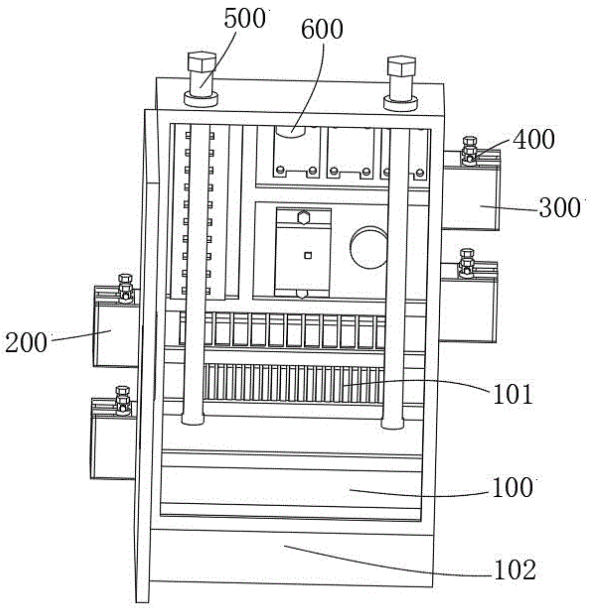


21: 2025/00311. 22: 2025/01/09. 43: 2025/07/11
51: H02B
71: Henan University of Urban Construction
72: Xiaohui Li, Wei Guo, Meng Zheng, Wenjie Si, Guangcheng Xing, Wenwen Liu, Xiaozhe Sun, Jikui Zhang

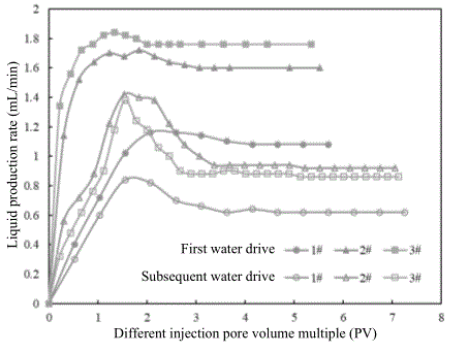
54: A MODULAR DESIGN CONTROL SYSTEM FOR AN ELECTRIC CABINET

00: -

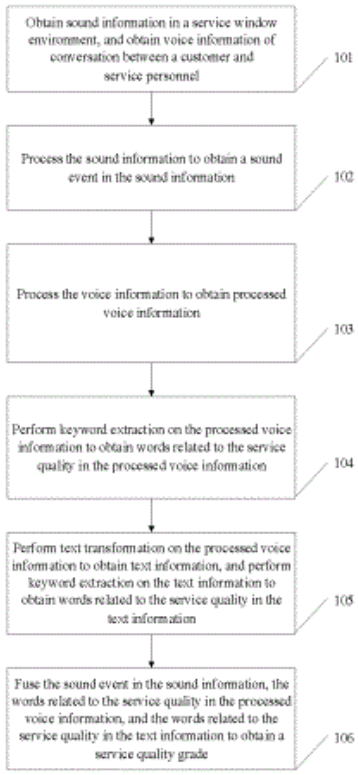
The invention discloses a modular design control system for an electric cabinet. The invention comprises a cabinet body, a suction component, a discharge component, a quick disassembly component and a moisture-proof component. The suction component is arranged on the left side of the cabinet body. The discharge component comprises a fixing pipe arranged on the right side of the cabinet body, a mounting slot arranged on the fixing pipe, a fan inserted in the mounting slot, two limit slots arranged on the top of the fan and a network frame hinged on the right side of the fixing pipe. The quick disassembly component comprises a fixing rod arranged on the top of the network frame, a fastening knob and a locking knob threaded on the fixing rod, and the moisture-proof component is arranged inside the cabinet body. The invention realizes the effect of quickly disassembling the heat dissipation device for cleaning without affecting the use of the electric gas cabinet by setting the suction component, the discharge component and the quick-disassembling component. At the same time, the invention plays a good moisture-proof effect by setting the moisture-proof component.



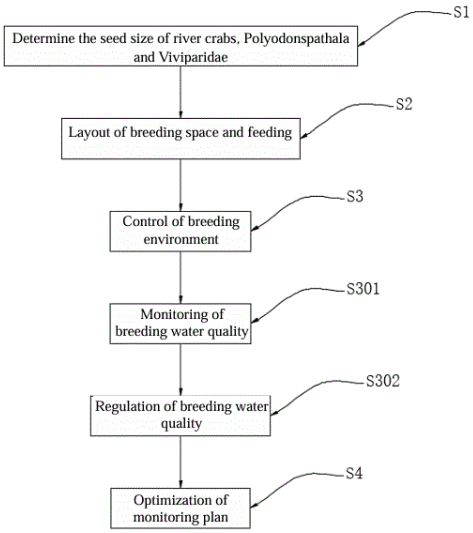
21: 2025/00312. 22: 2025/01/09. 43: 2025/07/11
51: C12N
71: Yangtze University
72: SHE, Yuehui, ZHANG, Fan, DONG, Hao, SUN, Shanshan, SHE, Yujie, SHU, Fuchang
33: CN 31: 202411639663.8 32: 2024-11-15
54: PSEUDOMONAS STUTZERI, MICROBIAL AGENT AND APPLICATION
00: -
Provided are Pseudomonas stutzeri, a microbial agent and application, which belong to the technical field of microbial enhanced oil recovery. The present application provides Pseudomonas stutzeri 3T4, which is preserved at the China General Microbiological Culture Collection Center and has a preservation number of CGMCC No. 7535. Pseudomonas stutzeri 3T4 in the present application can be metabolized to produce a glycolipid biosurfactant having a favorable foaming performance. Physical simulation experiments show that Pseudomonas stutzeri 3T4 can well improve heterogeneity of an oilfield reservoir (core) and enhance a producible oil index.



21: 2025/00313. 22: 2025/01/09. 43: 2025/07/11
51: G06Q
71: North China University of Technology
72: CAI, Xichang, ZUO, Liangxiao, CHEN, Jingxuan
33: CN 31: 202410247968.8 32: 2024-03-05
54: METHOD AND SYSTEM FOR EVALUATING SERVICE QUALITY IN PUBLIC PLACES BASED ON MULTIMODAL FUSION
00: -
Disclosed is a method and system for evaluating service quality in public places based on multimodal fusion, which relates to the technical field of multimodal fusion. The method for evaluating the service quality includes: obtaining sound information in a service window environment and voice information of conversation between a customer and service personnel; processing the sound information to obtain a sound event in the sound information; processing the voice information to obtain words related to the service quality in the voice information and words related to the service quality in text information, the text information being obtained by perform text transformation on the voice information; and fusing the sound event in the sound information, the words related to the service quality in the processed voice information, and the words related to the service quality in the text information to obtain a service quality grade.



21: 2025/00316. 22: 2025/01/09. 43: 2025/07/11
51: A01K
71: Suqian Agricultural Science Institute, Jiangsu Academy of Agricultural Sciences
72: Xuanpeng WANG, Dandan GAO, Gaowei ZHANG, Yongchun GE, Jinfeng SHAN
54: COMPOSITE ECOLOGICAL BREEDING METHOD OF RIVER CRAB, POLYODONSPATHALA AND VIVIPARIDAE
00: -
The present application relates to the field of ecological aquaculture, and discloses a composite ecological breeding method for river crabs, Polyodonspathala and Viviparidae, comprising the following steps: S1. Determine the seedling size of river crabs, Polyodonspathala and Viviparidae: select crabs weighing 5-20 g/piece, select Polyodonspathala with a body length of 10-15 cm, and select young Viviparidae weighing 5- 20 g/piece; S2. Arrangement of aquaculture space and feeding of feed: The aquaculture space needs to be arranged in advance; S3. Aquaculture environment control: During the aquaculture process, various parameters of the aquaculture environment are collected and monitored by installing sensors; S4. Monitoring scheme optimization: According to changes in seasonal and external environmental factors, the time and number of monitoring are appropriately adjusted. The present invention ensures the quality of aquaculture through precise water quality control: Aiming at the pain points of different environmental requirements of different aquatic products and difficult water quality control in composite aquaculture, combined with a strictly set water quality adjustment calculation formula, farmers can make timely adjustments based on scientific quantitative results.



21: 2025/00317. 22: 2025/01/09. 43: 2025/07/11
51: B65D; B65G
71: CYCLIQ (PTY) LTD
72: COLMAN, Graham
33: ZA 31: 2023/09532 32: 2023-10-12
54: PALLET
00: -
A pallet with a base which is placed in a load-resisting state by means of flexible members which are tensioned and which are secured at respective opposing ends to a lower side of the base.

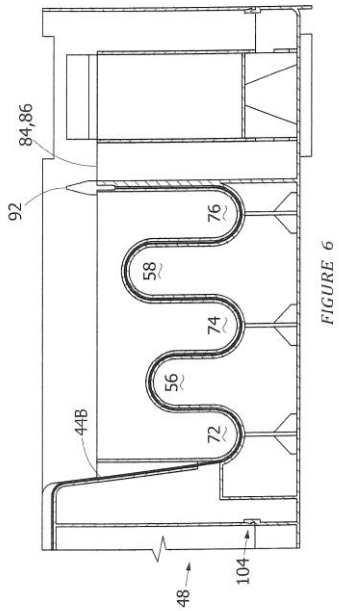


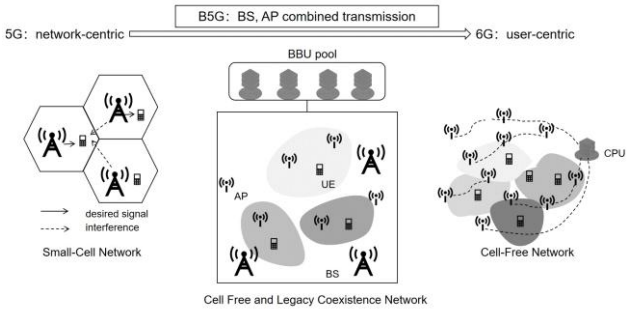
FIGURE 6

21: 2025/00324. 22: 2025/01/09. 43: 2025/07/11
51: H04W
71: XI'AN UNIVERSITY OF POSTS & TELECOMMUNICATIONS
72: Jiang Jing, Feng Dan, Wang Jin, Lu Guangyue, Zhen Li, Du Jianbo

54: CONSISTENT-COVERAGE ORIENTED AP DEPLOYMENT OPTIMIZATION IN CELL FREE AND LEGACY COEXISTENCE NETWORK

00: -

This disclosure relates to an access points(APs) deployment optimization method aimed at consistent coverage for the cell-free and legacy coexistence network. The method includes: con-structing a cell-free and legacy coexistence network. The coexistence network includes cellular network and cell-free network areas, and also includes multiple base stations(BSs) and multiple APs. Set multiple preset deployment locations within the coverage area of the coexistence net-work; these multiple preset deployment locations are respectively used to deploy APs. Then, determine the downlink achievable rate of users and the average network throughput in the coexistence network according to the joint transmission mode of the multiple BSs and multiple APs. With the aim of maximizing the average network throughput, model the optimization deployment problem of multiple APs into a mathematical model, and solve the optimal solution of the mathematical model to complete the optimized AP deployment. This disclosure can, to a certain extent, address the issue of differences in network performance among users, and achieve uniform and consistent coverage of communication signals within the communication area.

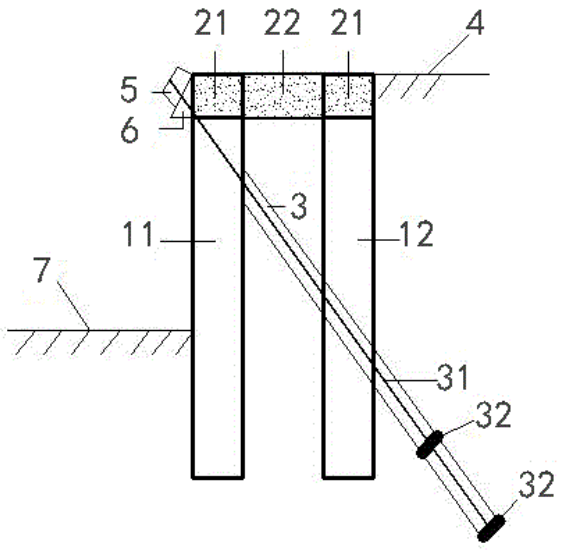


21: 2025/00325. 22: 2025/01/09. 43: 2025/07/11
51: E02D
71: Hunan University of Technology
72: Tang Xiya, Jin Can, Zhou Junhao, Chen Shuhua, Shuai Yuying

54: ANCHORED CABLE RETAINING WALL STRUCTURE WITH COMBINED TENSION AND COMPRESSION

00: -

The present invention relates to the technical field of civil engineering, and provides a an-chored cable retaining wall structure with combined tension and compression for supporting and retaining within a limited range and on high-fill slopes, including pile foundations, rib columns, retaining plates, prestressed anchor cables (tie rods), anchoring plates, anchoring sections, posi-tioning brackets, filter layers, fillers, and connecting components. The retaining wall structure op-timizes the construction process and solves the problem of poor anti-sliding ability of traditional anchoring plate retaining walls. It may fully utilize the respective advantages of the anchoring plates and the anchoring sections of the prestressed anchor cables, which helps to achieve a high-light and light-weight design for the anchoring plate retaining wall structure. It is applicable to the support and retention of high-fill slopes where there is a relatively large backfill space behind the wall and, at the same time, a stable soil layer that is convenient for the anchoring section to be anchored.

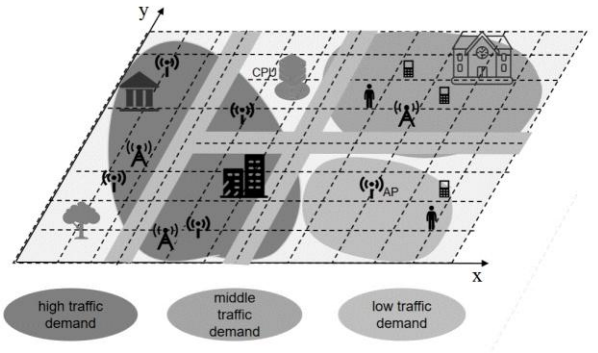


21: 2025/00326. 22: 2025/01/09. 43: 2025/07/11
51: H04W
71: XI'AN UNIVERSITY OF POSTS & TELECOMMUNICATIONS
72: Jiang Jing, Feng Dan, Wang Jin, Lu Guangyue, Zhen Li, Du Jianbo

54: A TRAFFIC DEMAND-ORIENTED DEPLOYMENT METHOD FOR ACCESS POINTS IN CELL-FREE MASSIVE MIMO NETWORKS

00: -

This disclosure relates to an access point (AP) deployment method for a cell-free massive MIMO network oriented to traffic demand requirements. The method includes the following steps: Divide the coverage area into N unit areas, and count the rate requirements of traffic demand requirements in all unit areas. Initialize the deployment locations of APs, and calculate the sum-rate of all users in any one unit area. Calculate the service capacity of any one unit area based on the rate requirement of any one unit area and the sum-rate of all users in any one unit area. Establish an optimization problem model according to any one service capacity and the optimization objective, optimize the optimization problem model, and output the optimal deployment locations of APs. This disclosure optimizes the deployment locations of APs, so that the traffic-demand requirements of each unit area match the transmission capacity, preventing excessive APs from being deployed in low-traffic areas and reducing system energy consumption. While ensuring the minimum transmission rate requirements in each unit area, the system energy efficiency is improved.

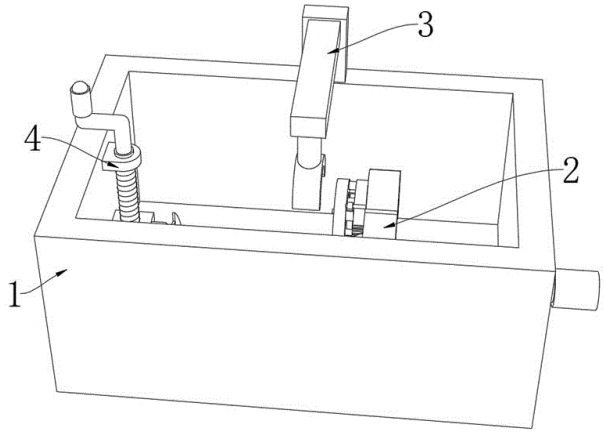


21: 2025/00327. 22: 2025/01/09. 43: 2025/07/11
51: G06F
71: North Sichuan Medical College
72: Chen Wei, Ma Ao

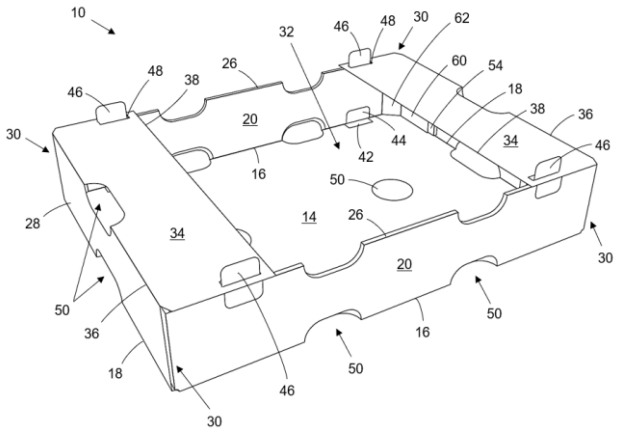
54: WIRELESS INTELLIGENT BRAIN WAVE MONITORING DEVICE FOR SMALL ANIMALS

00: -

The present invention provides a wireless intelligent brain wave monitoring device for small animals. The device includes a water tank. A connecting plate is fixedly connected to a front side of an inner wall of the water tank, a fixing ring is fixedly connected to a rear side of the connecting plate, a moving ring is rotatably connected to a left side of the fixing ring, and the moving ring is penetrated and rotatably connected to evenly distributed connecting rods. In the present invention, the rotation of the moving ring drives the rotation of the connecting rods. With the fixing rod remaining stationary, the rotating rod moves, causing the connecting rods to drive the flexible clamping block towards a center of the moving ring, clamping and fixing the fish in a convenient and efficient manner.



21: 2025/00353. 22: 2025/01/10. 43: 2025/07/11
51: B65D
71: APL CARTONS (PTY) LTD
72: BOTES, Marthinus Ryk
33: ZA 31: 2024/00379 32: 2024-01-11
54: CONTAINER AND METHOD OF ERECTING A CONTAINER
00: -
A container (9,10) is erected from a blank (11,12), has a floor (14) and four walls (20,28) that meet at four corners (30). A double-layered support formation (54,60) is folded from support flaps (52,58) on either side of the long walls (20) and extends across the corners (30). Top flaps (34) are secured in a closed position after the container (9,10) has been filled.

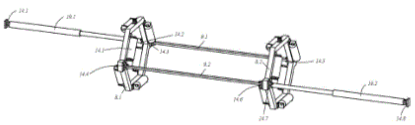


21: 2025/00354. 22: 2025/01/10. 43: 2025/07/11
51: A01H; C07K; C12Q
71: INSTITUTE OF VEGETABLES, TIBET ACADEMY OF AGRICULTURE AND ANIMAL HUSBANDRY SCIENCES
72: ZHANG, Kai, LI, Yanfeng, ZHAO, Liyang, Baimayangjin
54: ANTIBODY RESISTANT TO BOTRYTIS CINEREA RPL1 PROTEIN AND APPLICATION
00: -
The present invention discloses an antibody resistant to a Botrytis cinerea Rpl1 protein and an application, and relates to the technical field of biology. The antibody for detecting a pathogenic bacterium of gray mold in the present invention is obtained by immunizing an animal by taking the Botrytis cinerea Rpl1 protein as an antigen, and an amino acid sequence of the Botrytis cinerea Rpl1 protein is shown as SEQ ID NO.1. In the present invention, based on specific binding characteristics of the antigen and the antibody, the Botrytis cinerea Rpl1 protein is detected by western blotting and immunomicrosphere technologies; defects of long traditional Botrytis cinerea detection time and high requirements are overcome; and detection of gray mold is well ahead of time, thereby achieving an early, rapid and accurate detection effect on gray mold.

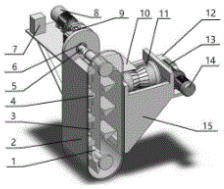
21: 2025/00355. 22: 2025/01/10. 43: 2025/07/11
51: A01H; C07K; C12Q
71: INSTITUTE OF VEGETABLES, TIBET ACADEMY OF AGRICULTURE AND ANIMAL HUSBANDRY SCIENCES
72: ZHANG, Kai, LI, Yanfeng, ZHAO, Liyang, Baimayangjin
54: ANTIBODY FOR RESISTANT PHYTOPHTHORA HIBERNALIS ATP1 PROTEIN AND APPLICATION THEREOF
00: -
The present invention discloses an antibody for a resistant Phytophthora hibernalis ATP1 protein and application thereof, falling within the technical field of biology. An antibody for detecting Phytophthora hibernalis is provided by the present invention, and animals are immunized with the ATP1 protein from the Phytophthora hibernalis as an antigen. An amino acid sequence of the Phytophthora hibernalis ATP1 protein is shown in SEQ ID NO. 1. According to the present invention, based on the characteristics of a specific combination of antigen and antibody, the ATP1 protein of Phytophthora hibernalis is detected by an immunoblotting and an immune microsphere technology, so that the disadvantages of long time and high requirements of traditional detection of Phytophthora hibernalis are overcome, the detection time of Phytophthora hibernalis is greatly advanced,

and rapid and accurate detection effect of Phytophthora hibernalis in the early stage is achieved.

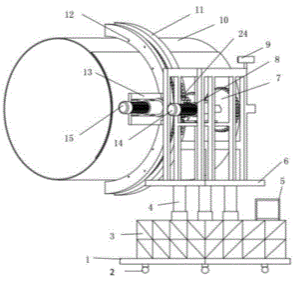
21: 2025/00356. 22: 2025/01/10. 43: 2025/07/11
51: B65G
71: Taiyuan University of Science and Technology
72: MENG, Wenjun, SUN, Zhengyu, ZHANG, Haoyu, REN, Hong, ZHAO, Zhangda, SUN, Xiaoxia, ZHAO, Xiaoxia, YIN, Xuan
33: CN 31: 202410970521.3 32: 2024-07-19
54: AUTOMATIC TORSION ADJUSTING SYSTEM FOR PIPE BELT CONVEYOR
00: -
The present invention provides an automatic torsion adjusting system for a pipe belt conveyor. The automatic torsion adjusting system for a pipe belt conveyor is composed of a torsion adjusting device and a lap joint detection device. The torsion adjusting device is composed of a hexagonal torsion adjusting rack, torsion adjusting linkage rods, hydraulic cylinders, rotating shafts, etc., where the rotating shafts are mounted on upper and lower cross beams of the hexagonal torsion adjusting rack, and the torsion adjusting linkage rods are connected to the hexagonal torsion adjusting rack. One ends of the hydraulic cylinders are mounted on the hexagonal torsion adjusting rack, and the other ends thereof are mounted on pipe belt conveyor racks. The lap joint detection device is composed of two identical lap joint detection units, each lap joint detection unit includes two light and range finding detection devices.



21: 2025/00357. 22: 2025/01/10. 43: 2025/07/11
51: B65G
71: Taiyuan University of Science and Technology
72: MENG, Wenjun, ZHANG, Haoyu, SUN, Zhengyu, LI, Yunfei, WANG, Zhaolong, ZHANG, Yong'an
33: CN 31: 202410820756.4 32: 2024-06-24
54: AUTOMATIC CLEANING AND RECYCLING DEVICE FOR MINE SCRAPER CONVEYOR
00: -
The patent of the present invention belongs to the technical field of mine machinery, and particularly relates to an automatic cleaning and recycling device for a mine scraper conveyor. An objective is to solve a coal returning phenomenon generated in a working process of the mine scraper conveyor. The technical solution is as follows: the automatic cleaning and recycling device for a mine scraper conveyor includes a cleaning device and a recycling device, where the cleaning device is mounted below a position close to a head of the mine scraper conveyor, and the recycling device is mounted on a left side of the cleaning device.



21: 2025/00358. 22: 2025/01/10. 43: 2025/07/11
51: B65G
71: Taiyuan University of Science and Technology
72: MENG, Wenjun, JIN, Yangfei, YUAN, Yuan, LIANG, Weiqiang, ZHANG, Biao, ZHAO, Zhangda, SUN, Zhengyu
33: CN 31: 202410676270.8 32: 2024-05-29
54: APPARATUS AND METHOD FOR REMOVING TORSION FAULT OF CONVEYOR BELT OF PIPE BELT CONVEYOR
00: -
Disclosed are an apparatus and method for removing a torsion fault of a conveyor belt of a pipe belt conveyor. The apparatus includes a trolley and bracket structure, a clamping mechanism configured to clamp a conveyor belt and a rotating mechanism configured to rotate the conveyor belt. The method includes: 1, driving the apparatus for removing a torsion fault of a conveyor belt of a pipe belt conveyor to a conveyor belt torsion fault point; 2, adjusting height of a clamping mechanism with hydraulic systems; 3, controlling a trolley to travel, and making the clamping mechanism and a rotating mechanism clamp a conveyor belt; 4, controlling action of the clamping mechanism; 5, controlling action of the rotating mechanism until the conveyor belt is returned; and 6, making the apparatus for removing a torsion fault of a conveyor belt of a pipe belt conveyor reset.

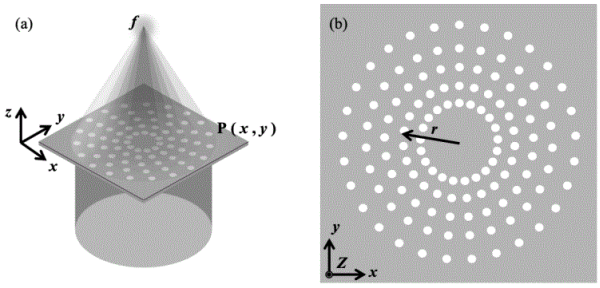


21: 2025/00359. 22: 2025/01/10. 43: 2025/07/11
51: F21V
71: Jining Medical University
72: ZHANG, Qi, XU, Xi, ZHOU, Shun, WEI, Tao, REN, Xiandong, YAN, Yiming

54: MULTIFOCAL ULTRA-THIN LENS WITHOUT POLARIZATION DEPENDENCE

00: -

The present invention provides a multifocal ultra-thin lens without polarization dependence. The multifocal ultra-thin lens without polarization dependence includes a substrate, a silver film and a plurality of metal nano circular holes etched on the silver film, where the silver film is attached to an upper surface of the substrate. The substrate is configured to receive incident light, the silver film provides support for the metal nano circular holes, and the metal nano circular holes are configured to realize different focusing effects. The metal nano circular holes are arranged in circles, phases covered by different circles are different, and phases covered by each unit structure in a circle are the same. An objective of the present invention is to provide the multifocal ultra-thin lens without polarization dependence, and the present invention solves the problems of decreased precision and a complex structure of a metalens in the prior art.

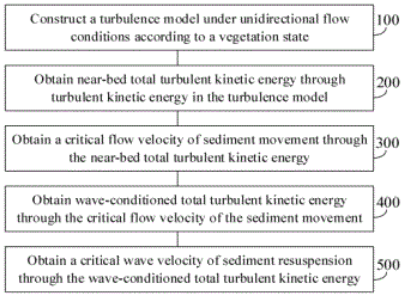


21: 2025/00360. 22: 2025/01/10. 43: 2025/07/11
51: G06F
71: North China Electric Power University
72: TANG, Caihong, ZHANG, Shanghong, JIA, Hao

54: QUANTITATIVE METHOD FOR ASSESSING CRITICAL STATE OF SEDIMENT SUSPENSION IN VEGETATED WATER BODIES

00: -

The present invention provides a quantitative method for assessing the critical state of sediment suspension in vegetated water bodies. The method includes: constructing a turbulence model according to a vegetation state; obtaining near-bed total turbulent kinetic energy through turbulence produced by vegetation and turbulence produced by a bed; obtaining a critical flow velocity of sediment movement through the near-bed total turbulent kinetic energy; replacing the flow velocity in a total turbulent kinetic energy equation under unidirectional flow conditions with a wave velocity to obtain wave-conditioned total turbulent kinetic energy; and obtaining a critical wave velocity of sediment resuspension through a relationship between the wave-conditioned total turbulent kinetic energy and a critical wave velocity. In this method, a model is constructed through the influence of turbulent flows produced by vegetation stems on the sediment resuspension process, achieving the assessment of the critical suspension state of the sediment.



21: 2025/00361. 22: 2025/01/10. 43: 2025/07/11
51: A01G
71: EXPERIMENTAL CENTER OF TROPICAL FORESTRY CHINESE ACADEMY OF FORESTRY
72: LIU Guangjin, HOU Jia, LI Qiuli, TIAN Zuwei, JIA Hongyan, SU Lijun, LI Fushen, TANG Guoqiang, WU Yuehai, HE Zhiming, WU Xiangli

54: NURSERY OPERATION METHOD FOR GRAFTING AND BREEDING OF CASTANOPSIS HYSTRIX SUPERIOR TREES

00: -

The invention discloses a nursery operation method for grafting and breeding of Castanopsis hystrix superior trees, which relates to the technical field of

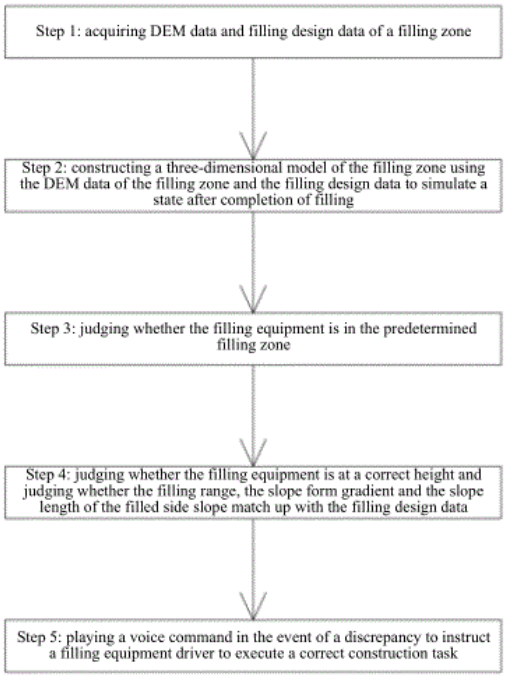
vegetative propagation of tree species. The method comprises the following steps: selecting superior trees, collecting and preserving scions, selecting semi-lignified branches as second-class scions, selecting 2-year-old seedlings of Castanopsis hystrix as rootstocks, pre-treating the scions, pre-treating the rootstocks, closely bonding the wedge-shaped incision on the front side of the scions with the split incision on the rootstocks, and tightly bonding the reverse side of the scions with the bark and phloem of the rootstocks, sealing and binding the grafting positions with plastic bags, and managing after grafting. The method provided by the invention is simple to use, the grafting is firm and stable, the survival rate is high, and the matching production line is easy to assemble, so that the method is suitable for large-scale grafting and rapid propagation of seedlings of Castanopsis hystrix superior trees; moreover, the seedlings can effectively maintain the excellent genetic characters of the mother trees, and ensure the consistency of the excellent quality of new plants with the mother trees; and the method is suitable for the remote preservation of high-quality Castanopsis hystrix germplasm resources, the construction of the gene bank of Castanopsis hystrix germplasm, the construction of the seed orchard of Castanopsis hystrix superior trees and the asexual rapid propagation of improved seedlings.

21: 2025/00362. 22: 2025/01/10. 43: 2025/07/11
51: G06T
71: Institute of Geological Hazards Prevention, Gansu Academy of Sciences
72: REN, Haochen

54: METHOD AND INTELLIGENT SYSTEM FOR CONTROLLING FILLING RANGE AND SLOPE FORM USING GEOSPATIAL POSITIONING

00: -

The present invention discloses a method and an intelligent system for controlling a filling range and a slope form using geospatial positioning, and belongs to the technical field of filling. An intelligent system for controlling a filling range and a slope form using geospatial positioning includes a data acquiring module, a model building module, an RTK module, a network module, a management module and a voice module. The present invention solves the problem in the existing patents; filling equipment can always be controlled within a filling range to avoid situations where filling construction exceeds the filling range on a large scale and where the slope form gradient and slope length of a filled side slope do not match up with design data, thus improving the efficiency of construction, saving a lot of time and remediation costs.



21: 2025/00366. 22: 2025/01/10. 43: 2025/07/18
51: A01G
71: Ningxia University
72: WANG, Xiaomin, LI, Jiale, ZHAO, Hui, MA, Haixia, LI, Liping, BAI, Shengyi, GUO, Meng, CHENG, Guoxin

54: METHOD FOR IMPROVING QUALITY OF TOMATO FRUITS

00: -

The present application provides a method for improving quality of tomato fruits. The method includes the following steps: soaking tomato seeds with a sugar alcohol calcium solution, culturing the soaked tomato seeds in the dark for 3-5 days, and then, performing culture under artificial light sources with different light quality and ratios. The method provided by the present application is simple to operate and low in cost. The artificial light sources with different light quality and different ratios are adjusted to irradiate tops of tomato seedlings, such that influence of different light quality and ratios on the quality of the tomato fruits is verified, the growth

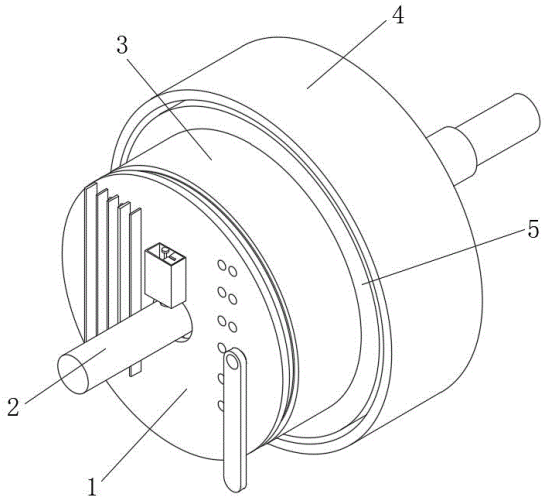
and development process of tomatoes in a plant factory is explored, a new way is opened up for research work of improving the quality of the tomatoes, and a theoretical reference is provided for improving the quality of the tomato fruits.

21: 2025/00368. 22: 2025/01/10. 43: 2025/07/18
51: H02K
71: Anhui Technical College of Mechanical and Electrical Engineering
72: Min Li, Cheng Li, Yanhui Huang, Jiapeng Zou, Zhijun Cai, Junda Zhang

54: A BRAKING DEVICE FOR CONTROLLING A THREE-PHASE MOTOR

00: -

The invention discloses a braking device for controlling a three-phase motor, belonging to the technical field of motors, comprising a stator assembly, a rotor assembly is arranged on the surface of the stator assembly, a brake ring is arranged on one side of the stator assembly, a mounting shaft is arranged on one side of the brake ring, a positioning and mounting assembly is arranged on the surface of the mounting shaft, and a curved braking block is symmetrically arranged on one side of the positioning and mounting assembly. An elastic part is arranged between the two groups of curved braking blocks, the surface of the curved braking block is provided with a brake lining, and the internal of the curved braking block is provided with a limit component corresponding to the brake lining. The brake lining can be snapped and fixed conveniently and stably by setting a limit assembly, ensuring the convenience of brake lining installation, saving human resources, improving work efficiency, facilitating replacement, and improving the braking effect of the motor. The braking device can be conveniently installed and positioned by setting a positioning and mounting assembly, and the installation efficiency of the equipment can be improved.

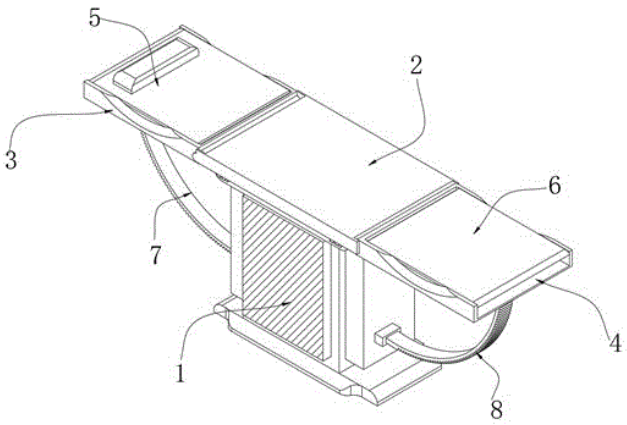


21: 2025/00369. 22: 2025/01/10. 43: 2025/07/18
51: A61G
71: Jing Ma
72: Jing Ma, Jiale Xu

54: AN OPERATING TABLE WITH ADJUSTABLE ANGLES

00: -

The invention relates to the technical field of operating tables and discloses an operating table with adjustable angles. The operating table includes a support platform, with a central tabletop set at the upper end of the support platform. A front tabletop is hinged at the front end of the central tabletop, and a rear tabletop is hinged at the rear end of the central tabletop. A first front angle adjustment mechanism is provided on the upper surface of the front tabletop, while a first rear angle adjustment mechanism is provided on the upper surface of the rear tabletop. A second front angle adjustment mechanism is installed between the lower surface of the front tabletop and the support platform, and a second rear angle adjustment mechanism is installed between the lower surface of the rear tabletop and the support platform. The invention allows for the adjustment of the patient's upper body or leg angles, facilitating surgical operations for medical staff. It also enables the folding of the front and rear tabletops, reducing the overall space occupied by the operating table and making it convenient for folding and storage.

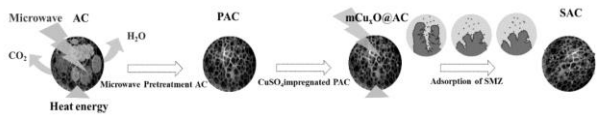


21: 2025/00370. 22: 2025/01/10. 43: 2025/07/18
51: B01J
71: Chinese Research Academy of Environmental Sciences
72: Zixiu LI, Yanping LIU, Jianfeng GAO
33: CN 31: 202411765494.2 32: 2024-12-03

54: MODIFIED ACTIVATED CARBON, PREPARATION METHOD AND USE THEREOF

00: -

The application relates to the technical field of preparation of activated carbon, in particular to a modified activated carbon, a preparation method and use thereof. In the application, the preparation method includes the following steps: mixing an activated carbon with an acid, and subjecting to activation to obtain a pretreated activated carbon; immersing the pretreated activated carbon in a copper salt solution to obtain a copper ion loaded activated carbon; mixing the copper ion loaded activated carbon with water, and subjecting to microwave treatment to obtain a modified activated carbon. The modified activated carbon prepared by the application is only doped with about 0.7% copper, which has excellent sulfadimidine removal ability and avoids secondary pollution to the environment caused by residual heavy metal ions.

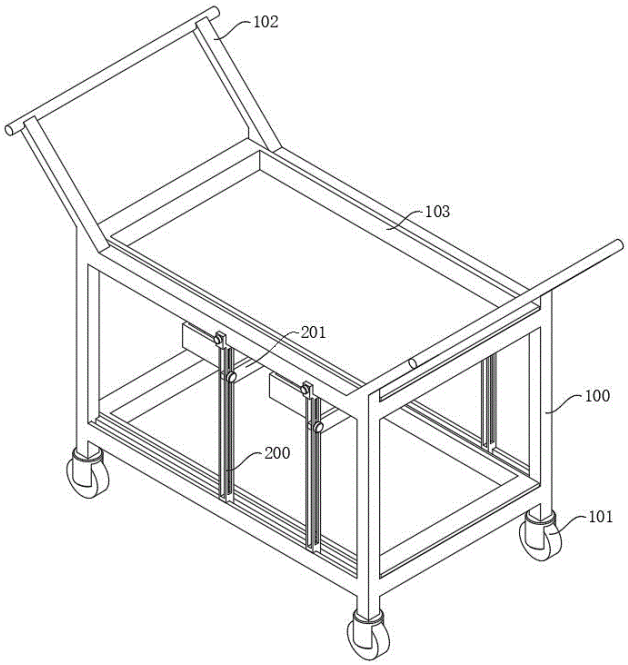


21: 2025/00371. 22: 2025/01/10. 43: 2025/07/18
51: B62B
71: Hunan Institute of Science and Technology
72: Yu Shuixiang, Lv Yong, Zhou Hualin, Shi Hui, Feng Juan, Yu Yi, Liu Yi

54: A TROLLEY FOR LABORATORY MANAGEMENT

00: -

The invention discloses a trolley for laboratory management, belonging to the technical field of laboratory trolley. The trolley comprises a trolley frame, a first holding frame, a sliding vertical plate, a connecting plate, a side limit plate and a moving component. By loosening the second fastening bolt, the sliding vertical plate on both sides can be moved simultaneously, and the slid-ing vertical plate can be made close to a precision instrument. By adjusting the height of the side limit plate, the side limit plate can contact the outer wall of the precision instrument, so that the precision instrument can be limited, so that it will not shake when moving, and the side limit plate can be moved up and down through the penetration slot in the moving component, so that it can be adjusted according to the height of the precision instrument. The position of the ad-justed side limit plate can be fixed by tightening and loosening the first fastening bolt.



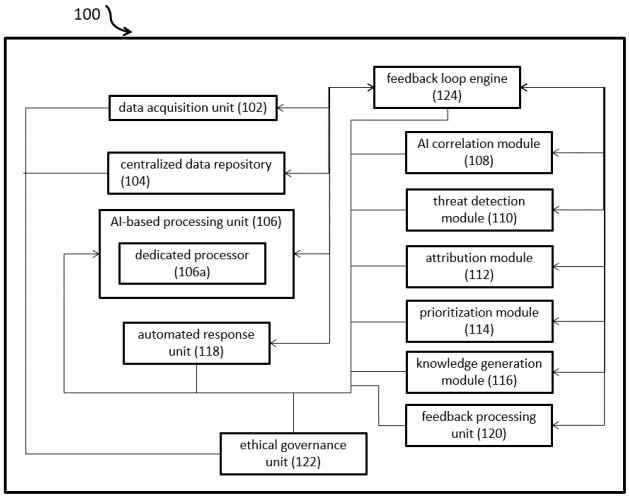
21: 2025/00372. 22: 2025/01/10. 43: 2025/07/18
51: G06F
71: Anurag Chandra, Vinaye Armoogum, Sheeba Armoogum
72: Anurag Chandra, Vinaye Armoogum, Sheeba Armoogum

54: AN AI-DRIVEN ETHICAL GOVERNANCE SYSTEM AND METHOD FOR UNIFIED CYBER

THREAT INTELLIGENCE AND DIGITAL FORENSICS INCIDENT RESPONSE

00: -

The present invention relates to an AI and Ethical Governance Enhanced Unified CTI-DFIR sys-tem that integrates cyber threat intelligence with digital forensics and incident response into a cohe-sive system, and a method for the same. The system incorporates AI-powered data collection mod-ules, a centralized data repository, and specialized processors for threat correlation, detection, at-tribution, and incident prioritization. It features automated response capabilities and continuous feedback mechanisms, all governed by ethical AI principles. The system collects threat data through web crawlers and anomaly detection, processes it using machine learning models for pat-tern recognition and risk assessment, and generates actionable intelligence reports. Built-in ethical governance ensures regulatory compliance and unbiased decision-making. This comprehensive approach enables organizations to proactively identify, analyze, and respond to cyber threats while maintaining transparency and adaptability, significantly enhancing cybersecurity effectiveness and operational efficiency.

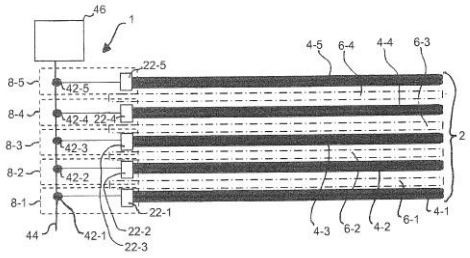


21: 2025/00373. 22: 2025/01/10. 43: 2025/07/18
51: H01M
71: POWERCELL SWEDEN AB
72: MUNTHE, Stefan, VELÉN, Robin, FLINK, Johan
33: SE 31: 2250917-8 32: 2022-07-18

54: VOLTAGE MONITORING ARRANGEMENT FOR AN ELECTRIC CELL STACK, PARTICULARLY FOR A FUEL CELL STACK

00: -

Disclosed is a voltage monitoring arrangement (1) for an electric cell stack (2) comprising a plurality of electric plates (4) sandwiching insulation layers (6), wherein the voltage monitoring arrangement (1) is configured to monitor a voltage of at least one electric plate (4) of the electric cell stack (2), wherein the voltage monitoring arrangement (1) comprises at least one voltage monitoring unit (8) with a contact element (22) being in contact with the at least one electric plate (4), wherein the voltage monitoring arrangement (1) comprises a first signal line (44) being configured to supply a first signal from a signal source to a processing unit (46), wherein the voltage monitoring unit (8) comprises a first signal path interrupting element (42) interposed in the first signal line (44), wherein the first signal path interrupting element (42) is connected to the contact element (22) and is configured to forward the first signal dependent on a voltage being present at the at least one electric plate (4), wherein the voltage monitoring arrangement (1) comprises a support element (20) being designed to be arranged within the electric cell stack, wherein the support element (20) is configured to support at least the contact element (22).



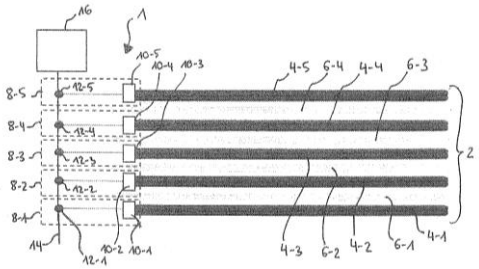
21: 2025/00375. 22: 2025/01/10. 43: 2025/07/18
51: H01M
71: POWERCELL SWEDEN AB
72: FLINK, Johan, MUNTHE, Stefan, VELÉN, Robin
33: SE 31: 2250918-6 32: 2022-07-18

54: VOLTAGE MONITORING ARRANGEMENT FOR AN ELECTRIC CELL STACK, PARTICULARLY FOR A FUEL CELL STACK

00: -

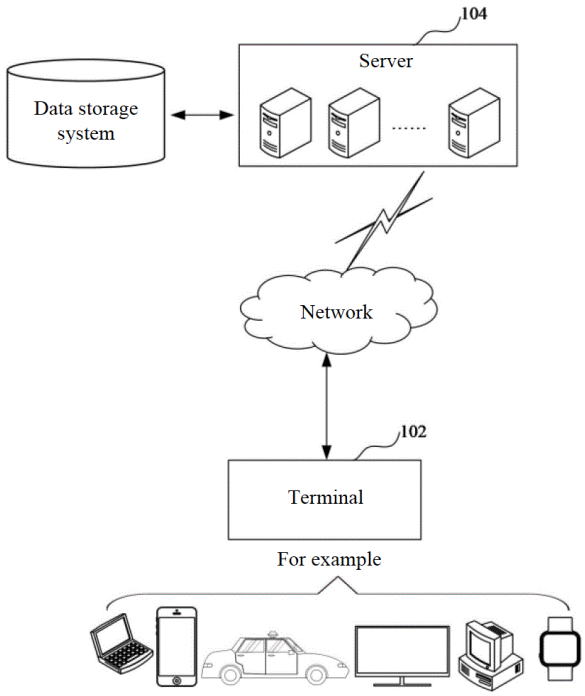
A voltage monitoring arrangement (1) for an electric cell stack (2) comprising a plurality of electric plates (4) sandwiching insulation layers (6) is described, wherein the voltage monitoring arrangement (1) is configured to monitor a voltage of at least one

electric plate (4) of the electric cell stack (2), wherein the voltage monitoring arrangement (1) comprises at least one voltage monitoring unit (8) with a contact element (10) being in contact with the at least one electric plate (4), wherein the voltage monitoring arrangement (1) comprises a first signal line (14) being configured to supply a first signal from a signal source to a processing unit (16), wherein the voltage monitoring unit (8) comprises a first signal path interrupting element (12) interposed in the first signal line (14), wherein the first signal path interrupting element (12) is connected to the contact element (10) and is configured to forward the first signal dependent on a voltage being present at the at least one electric plate (4).



21: 2025/00377. 22: 2025/01/10. 43: 2025/07/18
51: A23L; C13B
71: BHARDWAJ, Yojna, GUPTA, Shefali
72: BHARDWAJ, Yojna, GUPTA, Shefali
33: IN 31: 202211040232 32: 2022-07-13
54: AN INSTANTLY DISSOLVABLE JAGGERY CUBE AND A METHOD OF PREPARATION THEREOF
00: -
The present invention relates generally to the field of Jaggery manufacturing. Particularly, the present disclosure provides an instantly dissolvable sugarcane, palm or coconut jaggery cube and a process for preparation thereof.

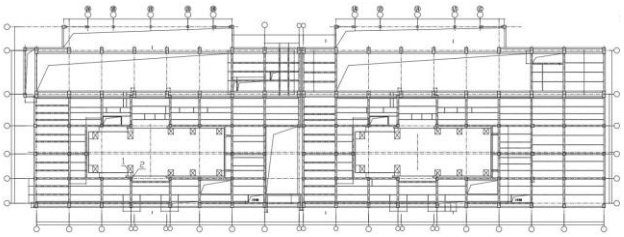
21: 2025/00392. 22: 2025/01/13. 43: 2025/07/18
51: G06K
71: MAANSHAN PEOPLE'S HOSPITAL
72: QI, Xuan, TANG, Zhen, WANG, Wuling, HE, Yongsheng, YANG, Hongkai, CHENG, Weiqun, YU, Shanshan
33: CN 31: 202411080914.3 32: 2024-08-08
54: DCE-MRI IMAGE GENERATION METHOD AND RELATED APPARATUS
00: -
Disclosed in the present application are a dynamic contrast-enhanced magnetic resonance imaging (DCE-MRI) image generation method and a related apparatus, which relates to the technical field of medical imaging. The method includes: acquiring diffusion-weighted imaging (DWI) image sequences corresponding to a plurality of b values of a breast region; applying a Patch2Self denoising method to denoise the DWI image sequence corresponding to each b value to obtain a denoised DWI image sequence; and applying an image generation model to generate DCE-MRI generated image sequences corresponding to different enhancement periods according to the denoised DWI image sequence corresponding to each b value and time sequence information corresponding to different enhancement periods. The present invention provides a new method for generating the DCE-MRI images without use of contrast agents and only by using DWI images corresponding to different b values.



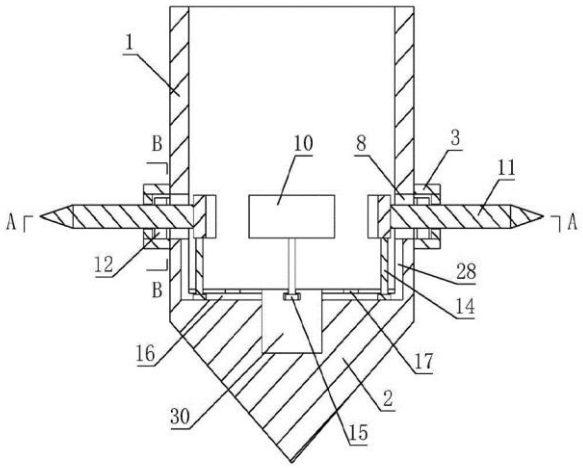
21: 2025/00393. 22: 2025/01/13. 43: 2025/07/18
51: G01N
71: ZHONGKAI UNIVERSITY OF AGRICULTURE AND ENGINEERING
72: ZHAO, Xiaojuan, MA, Ya, HUANG, Guiying, DONG, Hao, DUAN, Ningxin, TAN, Yanshan
54: NITROGEN-DOPED BIOCHAR COMPOSITE MATERIAL, ELECTROCHEMICAL WORKING

ELECTRODE AND PREPARATION METHOD AND APPLICATION THEREOF
00: -
The present invention provides a nitrogen-doped biomass-derived carbon (biochar) composite material, an electrochemical working electrode, and a preparation method and application thereof, and relates to the technical field of nitrogen-doped carbonaceous materials. The preparation method of the nitrogen-doped biochar composite material described in the present invention comprises the following steps: mixing fruit shell powder, nitrogen-containing compounds with an activator, and carrying out a roasting treatment in an inert atmosphere to obtain a nitrogen-doped biochar material; mixing said nitrogen-doped biochar material with dopamine hydrochloride, and carrying out a polymerization reaction under alkaline conditions to obtain a nitrogen-doped biochar composite material.

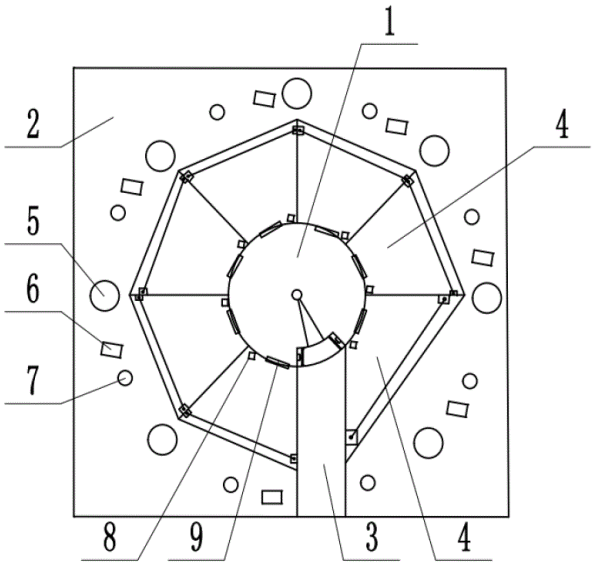
21: 2025/00395. 22: 2025/01/13. 43: 2025/07/18
51: E04H
71: Pinglu Zhao
72: Pinglu Zhao, Ruiyang Zhao, Jianhua Wang
33: CN 31: 2024116490409 32: 2024-11-19
54: MAIN PLANT LAYOUT DEVICE FOR THERMAL POWER PLANTS
00: -
The invention discloses a main plant layout device for thermal power plants, comprising a steam turbine generator base column and a steam turbine platform column (a large platform column of the steam turbine related to the surrounding of the steam turbine base column), wherein a clear water formwork, a wooden block, and a reinforced channel steel are provided between the steam turbine generator base column and the steam turbine platform column; the clear water formwork, the wooden block, and the reinforced channel steel are arranged to form a minimum clear space spacing between the steam turbine generator base column and the steam turbine platform column, so as to meet the requirements of synchronous pouring of the steam turbine generator base column and the steam turbine platform column. The main plant layout device for thermal power plants according to the invention leaves enough clear spacing dimensions in the preliminary design of the steam turbine generator base column and the steam turbine platform column to achieve simultaneous concrete pouring of the two, reduce safety risks, reduce construction costs, shorten construction period, create prerequisites for the project to be put into production and generate electricity and generate income as soon as possible, and achieve mutual benefit and win-win results for all parties.



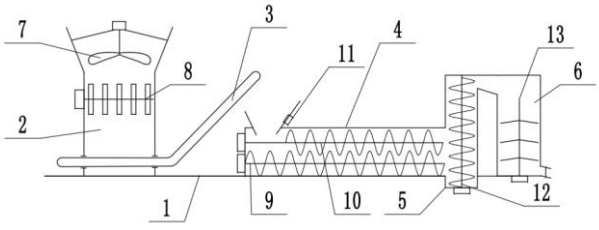
21: 2025/00397. 22: 2025/01/13. 43: 2025/07/18
51: E01F
71: Henan University of Urban Construction
72: YUAN, Yue, MA, Dongli, SHEN, Tong
54: ROAD AND BRIDGE CONSTRUCTION PROTECTION SYSTEM
00: -
A road and bridge construction protection system is disclosed. The road and bridge construction protection system includes a plurality of foundation piles inserted side by side into the ground; each foundation pile is hollow and has an open top; a plurality of fixing assemblies capable of being inserted into the ground are arranged on the foundation pile in a circumferential direction; an upright post is detachably arranged in the foundation pile; a guardrail is arranged between adjacent upright posts; and a buffer plate and a warning member are arranged on a side face of the guardrail. The road and bridge construction protection system provided by the present invention improves protection performance, and facilitates replacement and installation.



21: 2025/00398. 22: 2025/01/13. 43: 2025/07/18
51: A01K
71: JIAXING VOCATIONAL AND TECHNICAL COLLEGE
72: JIA, Yan, WANG, Jun, WANG, Junshu, YU, Haijie, XU, Jinqiang, ZHAO, Haiyun, YANG, Miaoxin, XIONG, Renping, ZHAO, Yi, YU, Hui, WEN, Zhongxiao, ZHONG, Ming, ZHOU, Biying
54: ANIMAL FEEDING DEVICE
00: -
The present invention discloses an animal feeding device, and relates to the technical field of pet care. The animal feeding device includes a transfer room, an isolation room, a controller, a display, a channel and a plurality of function rooms; wherein both the transfer room and the function rooms are arranged in the isolation room, the function rooms are arranged around the transfer room, the function rooms are all connected with the transfer room, a first end of the channel is connected and communicated with the transfer room, and a second end of the channel extends outside the isolation room. The present invention can effectively save manpower.

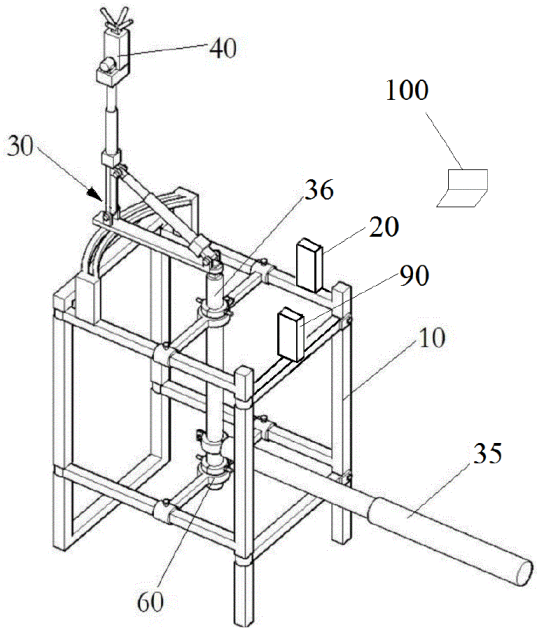


21: 2025/00399. 22: 2025/01/13. 43: 2025/07/18
51: B01F
71: Henan University of Urban Construction
72: SHEN, Tong, YUAN, Yue, JIA, Haipeng
54: MIXING AND STIRRING APPARATUS FOR SOLIDIFYING SOIL
00: -
Disclosed is a mixing and stirring apparatus for solidifying soil. The mixing and stirring apparatus includes a bottom plate, a crushing tank, a climbing conveyor, a first stirring tank, a lifting tank and a second stirring tank, where the crushing tank, the first stirring tank, the lifting tank and the second stirring tank are sequentially arranged; a top surface of a left end of the first stirring tank is provided with a feeding port; a side wall of the lifting tank is fixedly connected to and in communication with a right end of the first stirring tank, a bottom end of the lifting tank is recessed downwards relative to the right end of the first stirring tank; and a top end of the second stirring tank is fixedly connected to and in communication with a top end of the lifting tank.



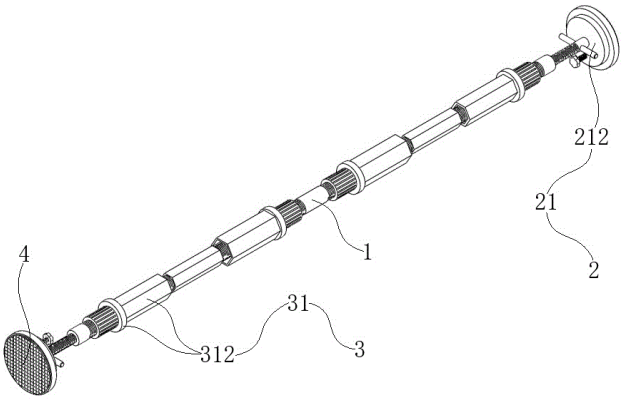
21: 2025/00400. 22: 2025/01/13. 43: 2025/07/18
51: G01R

71: Henan University of Urban Construction
72: YUAN, Yue, SHEN, Tong, HAN, Yang
54: REMOTE GEOTECHNICAL DANGER REMOVAL APPARATUS FOR TUNNEL CONSTRUCTION
00: -
The present invention discloses a remote geotechnical danger removal apparatus for tunnel construction, including a support frame, a hammering mechanism, an adjusting mechanism, a monitoring component, a lighting component and a central control component, wherein the hammering mechanism is used to hammer rocks and soil; the adjusting mechanism is used to adjust the spatial position of the hammering mechanism; the monitoring component is used to capture image information of the hammering mechanism and a rock face; the lighting component is used to provide illumination for the environment; and the central control component can receive image information and remotely control actions of the hammering mechanism and the adjusting mechanism. The remote geotechnical danger removal apparatus for tunnel construction of the present invention can reduce security risks in operations.



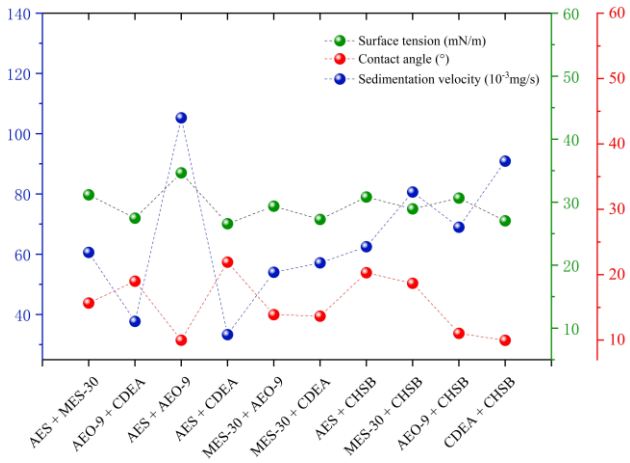
21: 2025/00401. 22: 2025/01/13. 43: 2025/07/18
51: A63B
71: XINYU UNIVERSITY
72: Taibin Huang, Ling Li, Ying Xi, Jing Liang, Zhiyu Yang

54: PHYSICAL FITNESS DEVICE FOR TRAINING SPORTS STUDENTS
00: -
A physical fitness device for training sports students is provided. During use, the length of the physical fitness device is adjusted in such a manner that a length adjusting mechanism extends from or retracts in a rod body, so that the physical fitness device is tightened and fixed between two opposite vertical surfaces. Then, according to the size of a user hand, the thickness of a holding part of the physical fitness device is adjusted by moving thickness adjusting assemblies in thickness adjusting mechanisms, so as to adapt to the size of the human hand so that a user holds the holding part more comfortably and is convenient to exert force. In general, through the use of the physical fitness device for training sports students, the thickness of the holding part can be adjusted according to the size of the hand, which is convenient for holding and exerting force.

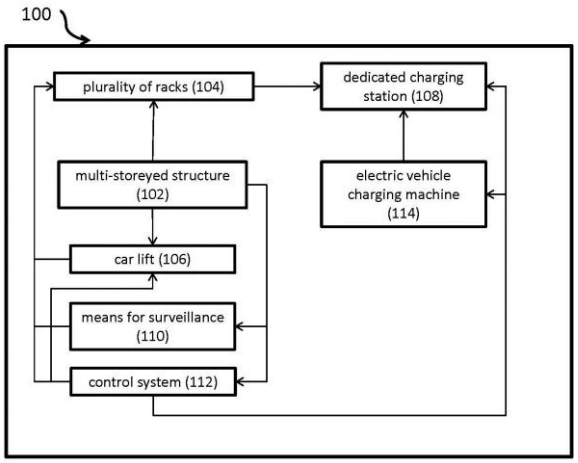


21: 2025/00403. 22: 2025/01/13. 43: 2025/07/18
51: C09K
71: Kunming University of Science and Technology
72: Xueming Fang, Xinhui Luo, Henglin Liu, Jie Liu, Yaping Gong
54: A COMPOUND COMPOSITION FOR SUPPRESSING COAL DUST, A DUST REMOVAL ACTIVE AGENT AND ITS APPLICATION
00: -
The invention relates to the technical field of coal mine dust suppression, in particular to a compound composition for coal dust suppression, a dust removal active agent and its application, which is composed of fatty alcohol polyoxyethylene ether sulfate (AES) and fatty alcohol polyoxyethylene ether 9 (AEO-9). The mass ratio of the fatty alcohol polyoxyethylene ether sulfate and the fatty alcohol

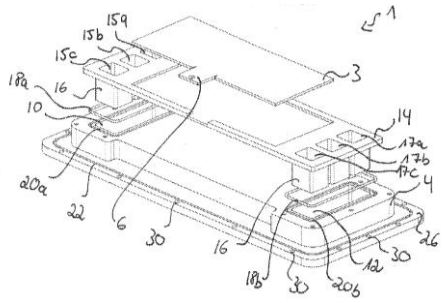
polyoxyethylene ether 9 is 1:1, and the mass fraction is 0.5wt%. The compound composition of the invention has the ability to effectively reduce the surface tension, reduce the contact angle, promote the settlement of coal dust in the solution, and significantly improve the capture efficiency of lignite dust by water.



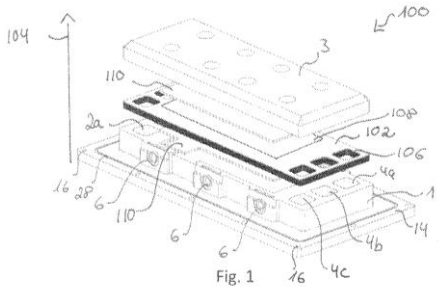
21: 2025/00405. 22: 2025/01/13. 43: 2025/07/18
51: H02J
71: Techno India University, West Bengal
72: Dipayan Ghosh, Dr. Subashis Biswas, Dr. Sanjukta Mandal
54: A SYSTEM AND METHOD FOR CHARGING ELECTRICAL VEHICLE IN A MULTI-STOREY PARKING SETUP
00: -
The invention provides a multi-storeyed car parking and charging system designed for charging electrical vehicle while being parker in a multi-storey parking setup. It includes a multi-level structure with prefabricated steel racks, a hydraulically driven car lift with a rotatable tray for vehicle alignment, and integrated fast-charging ports at each rack. The charging system supports multiple levels (110-120V AC, 220-240V AC, and DC via 3-phase AC rectification), powered through a control panel with safety features. Vehicles are transported automatically via the car lift, parked in vacant racks, and charged using dedicated metered connections. Surveillance ensures secure operations and user notifications upon task completion. This system optimizes space, simplifies EV charging, and enhances convenience, making it ideal for urban areas with high vehicle density.



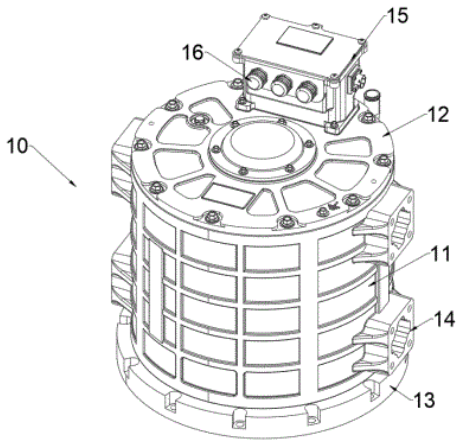
21: 2025/00407. 22: 2025/01/13. 43: 2025/07/18
51: H01M
71: POWERCELL SWEDEN AB
72: EKBLAD, Oskar
33: SE 31: 2250947-5 32: 2022-08-03
54: FUEL CELL STACK
00: -
A fuel cell stack (1) is provided, wherein the fuel cell stack (1) comprises at least a fuel cell stack body (2) with a plurality of unit fuel cells, wherein each unit fuel cell comprises a bipolar plate and a membrane electrode assembly, which are alternatingly stacked in a stacking direction, a first and second terminal plate sandwiching the fuel cell stack body (2), wherein the first and second terminal plate are adapted to collect the electric energy generated by the fuel cell stack body (2), a first insulation plate (14) and a second insulation plate sandwiching the terminal plates, wherein the insulation plates (14) are adapted to electrically insulate the terminal plates, and a first and second end plate (4) sandwiching the insulation plates (14), wherein at least one first sealing element (18a, 18b) is arranged between at least one insulation plate (14) and the adjacent end plate (4).



21: 2025/00408. 22: 2025/01/13. 43: 2025/07/18
51: H01M
71: POWERCELL SWEDEN AB
72: EKBLAD, Oskar
33: SE 31: 2250948-3 32: 2022-08-03
54: FUEL CELL STACK
00: -
Fuel cell stack A fuel cell stack (100) is provided which comprises at least a fuel cell stack body (102) with a plurality of unit fuel cells, wherein each unit fuel cell comprises a bipolar plate and a membrane electrode assembly, which are alternatingly stacked in a stacking direction (104), a first and second terminal plate (110) sandwiching the fuel cell stack body (102), wherein the first and second terminal plate (110) are adapted to collect the electric energy generated by the fuel cell stack body (102), a first and second end plate (1, 3) which sandwich the first and second terminal plate (110), and a housing (18), wherein the housing (18) includes at least a bottom plate, a stack enclosure (20) configured to cover the side faces of the fuel cell stack (100), and a top plate (22), wherein the first end plate (1) is configured as the bottom plate of the housing (18) and is provided with at least one protruding connection element (14) which protrudes laterally from the first end plate (1) and is configured to connect the stack enclosure (20) to the first end plate (1).



21: 2025/03709. 22: 2025/04/30. 43: 2025/07/08
51: H02K
71: JIANGSU WEITELI MOTOR CO., LTD.
72: LI Qiusheng, JI Guibao, ZHOU Xingqiang, SONG Xiancheng
33: CN 31: 2024106963270 32: 2024-05-31
54: HIGH-EFFICIENCY HEAT DISSIPATION PROCESSING DEVICE FOR PERMANENT MAGNET SYNCHRONOUS MOTORS
00: -
The present invention relates to the technical field of permanent magnet synchronous motors, and provides a high-efficiency heat dissipation processing device for permanent magnet synchronous motors, including a heat dissipation protection mechanism and a permanent magnet synchronous motor. The heat dissipation protection mechanism includes a heat dissipation processing casing, a casing top cover, and a casing base. The casing top cover is fixedly mounted on the top of the heat dissipation processing casing, the casing base is fixedly mounted at the bottom of the heat dissipation processing casing, the heat dissipation processing casing, the casing top cover, and the casing base together form a cavity for embedding and fixing the permanent magnet synchronous motor. The high-efficiency heat dissipation processing device for permanent magnet synchronous motors according to the present invention has both high-efficiency air flow heat dissipation function and liquid circulation type heat conduction heat dissipation function, realizing a circulating heat dissipation effect. Through the arrangement of the clearance space and the cooperation with the air flow heat dissipation effect, the air flow circulation efficiency is greatly improved, thereby further improving the heat dissipation efficiency. Meanwhile, the device may also improve the liquid heat dissipation efficiency, so as to enhance the liquid circulation cooling efficiency.

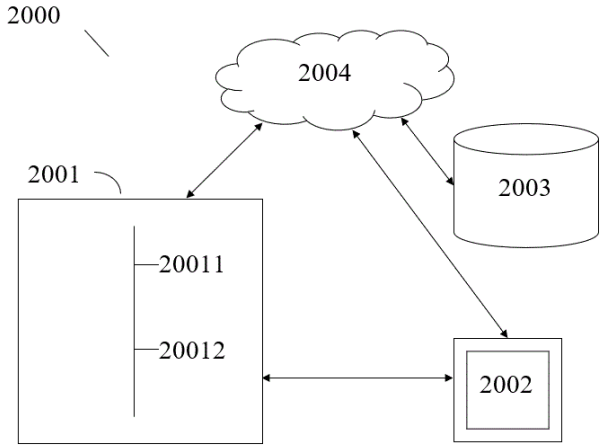


21: 2025/03736. 22: 2025/05/02. 43: 2025/06/24
51: G06F; G06Q
71: ROGACHEV Igor Petrovich
72: ROGACHEV Igor Petrovich
33: RU 31: 2024118089 32: 2024-06-29

54: SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT

00: -

The group of inventions relates to solutions in the field of processing data arrays, in particular, to solutions in the field of processing digitized documents containing information objects such as text and/or images, and can be used to transform a digitized document for efficient indexing of its elements and accurate search. The technical problem solved by the claimed invention is the creation of inventions that do not have the disadvantages of the closest analogue and thus have increased efficiency in processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them. Another technical problem solved by the claimed invention is the expansion of the arsenal of technical means - methods for converting structured data arrays containing information objects of digitized documents. The technical result achieved by implementing the claimed invention, in addition to realizing its purpose, is the elimination of the disadvantages of the closest analogue and thus an increase in the efficiency of processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them.

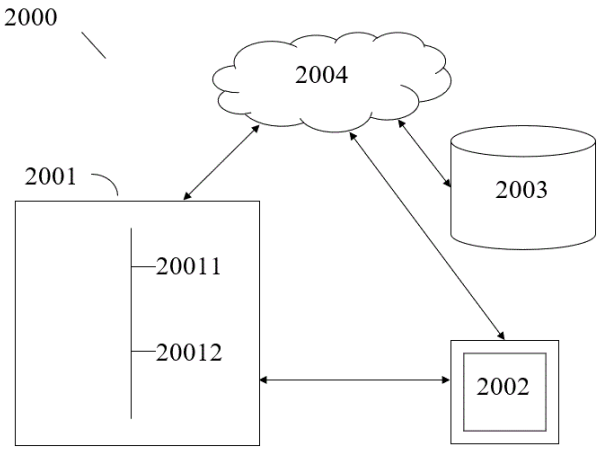


21: 2025/03737. 22: 2025/05/02. 43: 2025/06/24
51: G06F; G06Q
71: ROGACHEV Igor Petrovich
72: ROGACHEV Igor Petrovich
33: RU 31: 2024118090 32: 2024-06-29

54: SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT

00: -

The group of inventions relates to solutions in the field of processing data arrays, in particular, to solutions in the field of processing digitized documents containing information objects such as text and/or images, and can be used to transform a digitized document for efficient indexing of its elements and accurate search. The technical problem solved by the claimed invention is the creation of inventions that do not have the disadvantages of the closest analogue and thus have increased efficiency in processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them. Another technical problem solved by the claimed invention is the expansion of the arsenal of technical means - methods for converting structured data arrays containing information objects of digitized documents. The technical result achieved by implementing the claimed invention, in addition to realizing its purpose, is the elimination of the disadvantages of the closest analogue and thus an increase in the efficiency of processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them.

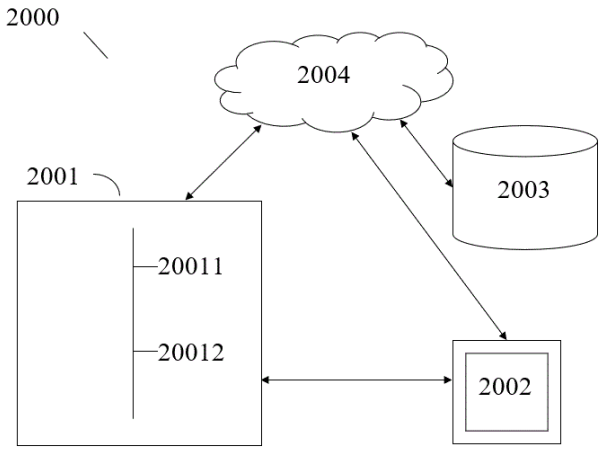


21: 2025/03738. 22: 2025/05/02. 43: 2025/06/24
51: G06F; G06Q
71: ROGACHEV Igor Petrovich
72: ROGACHEV Igor Petrovich
33: RU 31: 2024118153 32: 2024-06-29

54: DEVICE FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT

00: -

The group of inventions relates to solutions in the field of processing data arrays, in particular, to solutions in the field of processing digitized documents containing information objects such as text and/or images, and can be used to transform a digitized document for efficient indexing of its elements and accurate search. The technical problem solved by the claimed invention is the creation of inventions that do not have the disadvantages of the closest analogue and thus have increased efficiency in processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them. Another technical problem solved by the claimed invention is the expansion of the arsenal of technical means - methods for converting structured data arrays containing information objects of digitized documents. The technical result achieved by implementing the claimed invention, in addition to realizing its purpose, is the elimination of the disadvantages of the closest analogue and thus an increase in the efficiency of processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them.

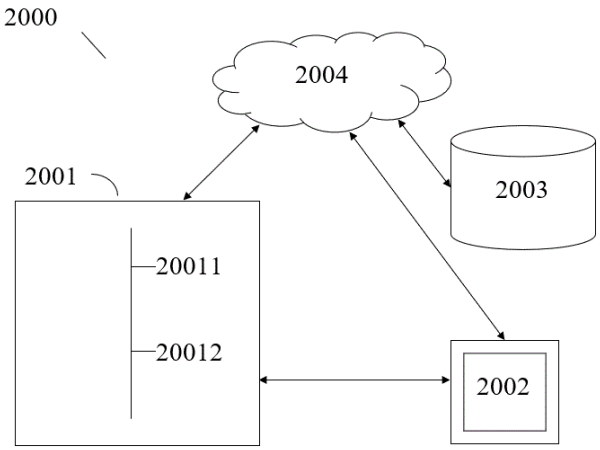


21: 2025/03739. 22: 2025/05/02. 43: 2025/06/24
51: G06F; G06Q
71: ROGACHEV Igor Petrovich
72: ROGACHEV Igor Petrovich
33: RU 31: 2024118154 32: 2024-06-29

54: SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT

00: -

The group of inventions relates to solutions in the field of processing data arrays, in particular, to solutions in the field of processing digitized documents containing information objects such as text and/or images, and can be used to transform a digitized document for efficient indexing of its elements and accurate search. The technical problem solved by the claimed invention is the creation of inventions that do not have the disadvantages of the closest analogue and thus have increased efficiency in processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them. Another technical problem solved by the claimed invention is the expansion of the arsenal of technical means - methods for converting structured data arrays containing information objects of digitized documents. The technical result achieved by implementing the claimed invention, in addition to realizing its purpose, is the elimination of the disadvantages of the closest analogue and thus an increase in the efficiency of processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them.

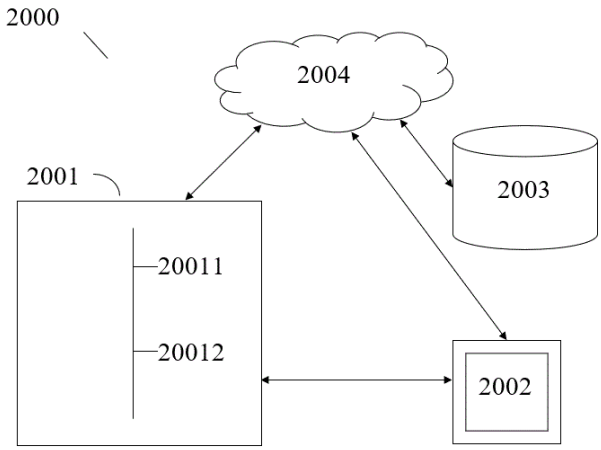


21: 2025/03740. 22: 2025/05/02. 43: 2025/06/24
51: G06F; G06Q
71: ROGACHEV Igor Petrovich
72: ROGACHEV Igor Petrovich
33: RU 31: 2024118155 32: 2024-06-29

54: SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT

00: -

The group of inventions relates to solutions in the field of processing data arrays, in particular, to solutions in the field of processing digitized documents containing information objects such as text and/or images, and can be used to transform a digitized document for efficient indexing of its elements and accurate search. The technical problem solved by the claimed invention is the creation of inventions that do not have the disadvantages of the closest analogue and thus have increased efficiency in processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them. Another technical problem solved by the claimed invention is the expansion of the arsenal of technical means - methods for converting structured data arrays containing information objects of digitized documents. The technical result achieved by implementing the claimed invention, in addition to realizing its purpose, is the elimination of the disadvantages of the closest analogue and thus an increase in the efficiency of processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them.

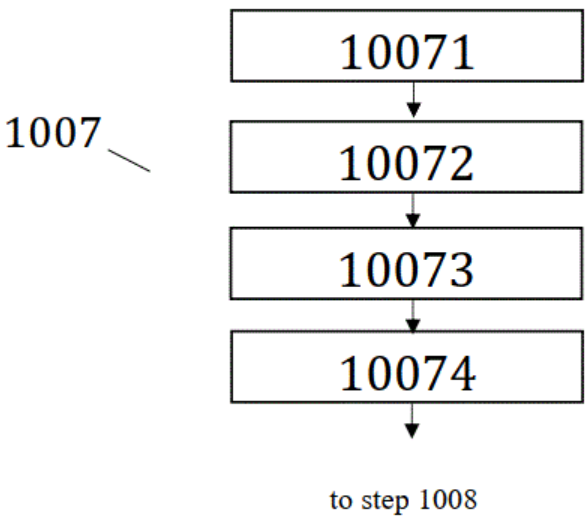


21: 2025/03741. 22: 2025/05/02. 43: 2025/06/24
51: G06F; G06Q
71: ROGACHEV Igor Petrovich
72: ROGACHEV Igor Petrovich
33: RU 31: 2024118122 32: 2024-06-29

54: METHOD FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT

00: -

The group of inventions relates to solutions in the field of processing data arrays, in particular, to solutions in the field of processing digitized documents containing information objects such as text and/or images, and can be used to transform a digitized document for efficient indexing of its elements and accurate search. The technical problem solved by the claimed invention is the creation of inventions that do not have the disadvantages of the closest analogue and thus have increased efficiency in processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them. Another technical problem solved by the claimed invention is the expansion of the arsenal of technical means - methods for converting structured data arrays containing information objects of digitized documents. The technical result achieved by implementing the claimed invention, in addition to realizing its purpose, is the elimination of the disadvantages of the closest analogue and thus an increase in the efficiency of processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them.

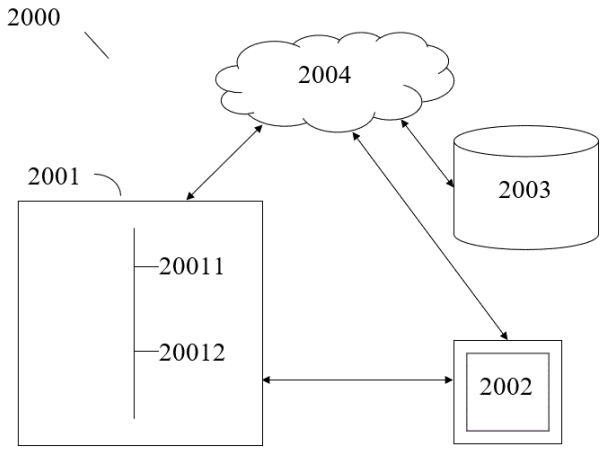


21: 2025/03742. 22: 2025/05/02. 43: 2025/06/24
51: G06F; G06Q
71: ROGACHEV Igor Petrovich
72: ROGACHEV Igor Petrovich
33: RU 31: 2024118123 32: 2024-06-29

54: DEVICE FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT

00: -

The group of inventions relates to solutions in the field of processing data arrays, in particular, to solutions in the field of processing digitized documents containing information objects such as text and/or images, and can be used to transform a digitized document for efficient indexing of its elements and accurate search. The technical problem solved by the claimed invention is the creation of inventions that do not have the disadvantages of the closest analogue and thus have increased efficiency in processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them. Another technical problem solved by the claimed invention is the expansion of the arsenal of technical means - methods for converting structured data arrays containing information objects of digitized documents. The technical result achieved by implementing the claimed invention, in addition to realizing its purpose, is the elimination of the disadvantages of the closest analogue and thus an increase in the efficiency of processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them.



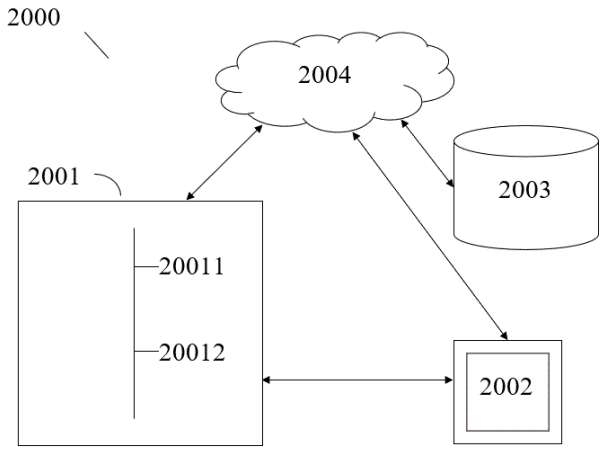
21: 2025/03743. 22: 2025/05/02. 43: 2025/06/24
51: G06F; G06Q
71: ROGACHEV Igor Petrovich
72: ROGACHEV Igor Petrovich
33: RU 31: 2024118124 32: 2024-06-29

54: SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT

00: -

The group of inventions relates to solutions in the field of processing data arrays, in particular, to solutions in the field of processing digitized documents containing information objects such as text and/or images, and can be used to transform a digitized document for efficient indexing of its elements and accurate search. The technical problem solved by the claimed invention is the creation of inventions that do not have the disadvantages of the closest analogue and thus have increased efficiency in processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them. Another technical problem solved by the claimed invention is the expansion of the arsenal of technical means - methods for converting structured data arrays containing information objects of digitized documents. The technical result achieved by implementing the claimed invention, in addition to realizing its purpose, is the elimination of the disadvantages of the closest analogue and thus an increase in the efficiency of processing digitized documents for subsequent indexing of its elements,

their processing and conducting searches using them.



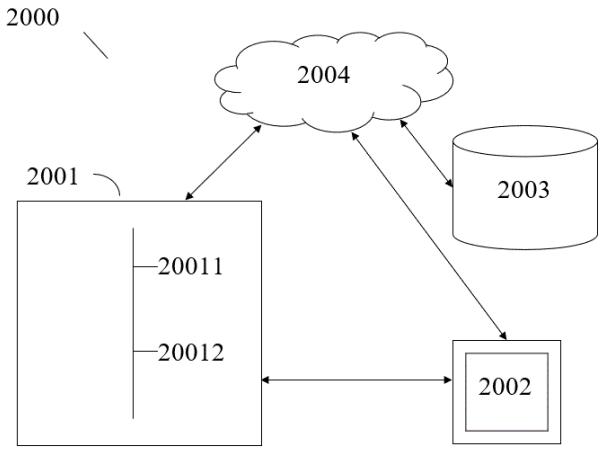
21: 2025/03744. 22: 2025/05/02. 43: 2025/06/24
51: G06F; G06Q
71: ROGACHEV Igor Petrovich
72: ROGACHEV Igor Petrovich
33: RU 31: 2024118125 32: 2024-06-29

54: SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT

00: -

The group of inventions relates to solutions in the field of processing data arrays, in particular, to solutions in the field of processing digitized documents containing information objects such as text and/or images, and can be used to transform a digitized document for efficient indexing of its elements and accurate search. The technical problem solved by the claimed invention is the creation of inventions that do not have the disadvantages of the closest analogue and thus have increased efficiency in processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them. Another technical problem solved by the claimed invention is the expansion of the arsenal of technical means - methods for converting structured data arrays containing information objects of digitized documents. The technical result achieved by implementing the claimed invention, in addition to realizing its purpose, is the elimination of the disadvantages of the closest analogue and thus an increase in the efficiency of processing digitized documents for subsequent indexing of its elements,

their processing and conducting searches using them.



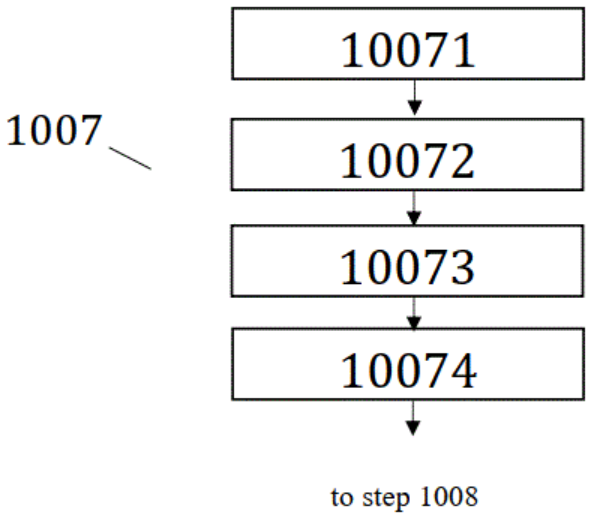
21: 2025/03745. 22: 2025/05/02. 43: 2025/06/24
51: G06F; G06Q
71: ROGACHEV Igor Petrovich
72: ROGACHEV Igor Petrovich
33: RU 31: 2024118126 32: 2024-06-29

54: MACHINE READABLE MEDIUM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT

00: -

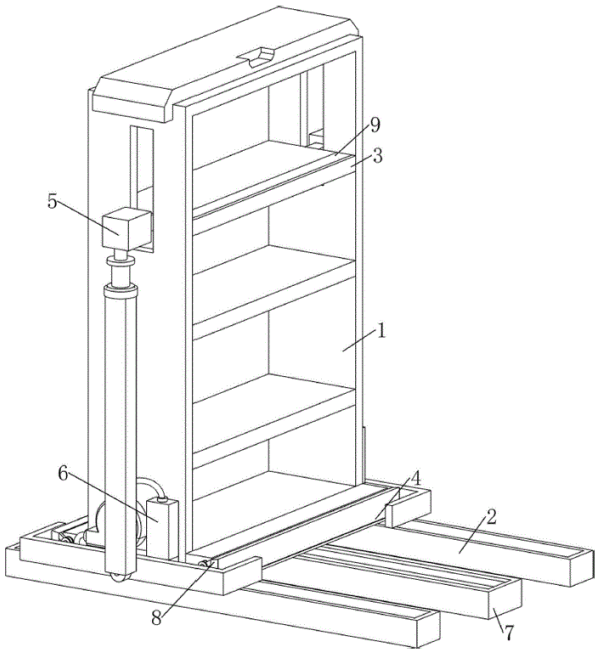
The group of inventions relates to solutions in the field of processing data arrays, in particular, to solutions in the field of processing digitized documents containing information objects such as text and/or images, and can be used to transform a digitized document for efficient indexing of its elements and accurate search. The technical problem solved by the claimed invention is the creation of inventions that do not have the disadvantages of the closest analogue and thus have increased efficiency in processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them. Another technical problem solved by the claimed invention is the expansion of the arsenal of technical means - methods for converting structured data arrays containing information objects of digitized documents. The technical result achieved by implementing the claimed invention, in addition to realizing its purpose, is the elimination of the disadvantages of the closest analogue and thus an increase in the efficiency of processing digitized documents for subsequent indexing of its elements,

their processing and conducting searches using them.



21: 2025/04256. 22: 2025/05/19. 43: 2025/07/04
51: A47B
71: Jiangxi Yuanjin Science & Technology Group Co., Ltd.
72: XU XIAOMAO
33: CN 31: 2023100716877 32: 2023-02-07
54: EASILY MOVABLE COMPACT SHELVING
00: -

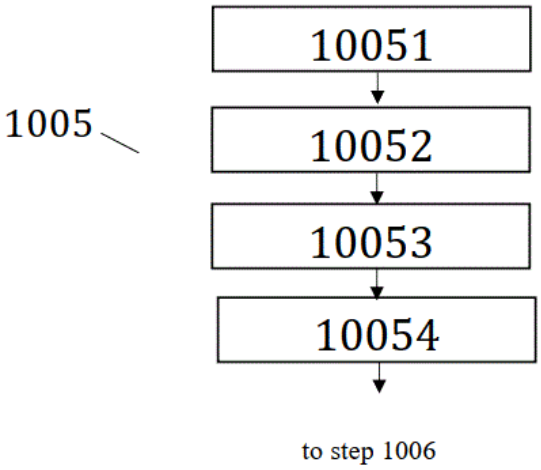
The present invention relates to the technical field of compact shelving, and in particular, to easily movable compact shelving. The present invention provides easily movable compact shelving capable of reducing a moving friction force. The easily movable compact shelving includes sliding rails, compact shelving, a shelf, a shoveling mechanism, and a jacking mechanism. The sliding rails are mounted on the ground; the compact shelf is slideably connected between the sliding rails; the shelf is slideably connected to the upper side of the compact shelf; the shoveling mechanism used for cleaning the sliding rails is provided on the lower portion of the compact shelving; and the jacking mechanism used for jacking up the shelf is provided on the shelf. According to the present invention, first cylinders are started, telescopic rods of the first cylinders extend outwards to drive scrapers to move outwards, and then the compact shelving moves to drive the scrapers to move to scrape impurities on the sliding rails, thereby implementing a scraping effect, reducing the friction force between the compact shelving and the sliding rails, and facilitating the movement of the compact shelving.



21: 2025/04425. 22: 2025/05/26. 43: 2025/06/24
51: G06F; G06Q
71: ROGACHEV Igor Petrovich
72: ROGACHEV Igor Petrovich
33: RU 31: 2024118116 32: 2024-06-29
54: MACHINE READABLE MEDIUM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT
00: -

The group of inventions relates to solutions in the field of processing data arrays, in particular, to solutions in the field of processing digitized documents containing information objects such as text and/or images, and can be used to transform a digitized document for efficient indexing of its elements and accurate search. The technical problem solved by the claimed invention is the creation of inventions that do not have the disadvantages of the closest analogue and thus have increased efficiency in processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them. Another technical problem solved by the claimed invention is the expansion of the arsenal of technical means - methods for converting structured data arrays containing information objects of

digitized documents. The technical result achieved by implementing the claimed invention, in addition to realizing its purpose, is the elimination of the disadvantages of the closest analogue and thus an increase in the efficiency of processing digitized documents for subsequent indexing of its elements, their processing and conducting searches using them.

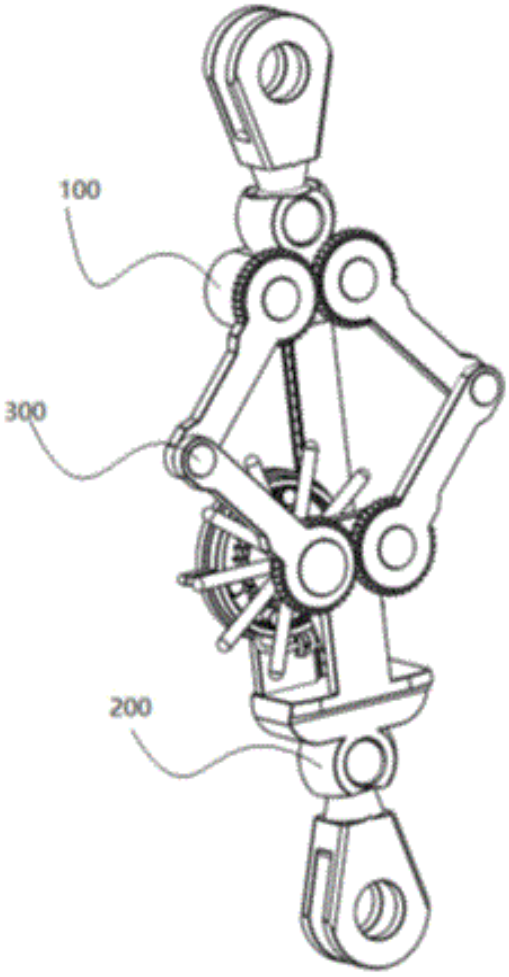


21: 2025/04606. 22: 2025/05/29. 43: 2025/06/24
51: E04B
71: China Railway No. 10 Group Urban Construction Engineering Co., Ltd., China Railway No. 10 Engineering Group Co., Ltd., University of Jinan
72: WANG, Zhongqing, WANG, Hongwei, ZHANG, Lujie, LUO, Mingzu, LIU, Zhaolei, LI, Xinkang, PENG, Xiaotong
33: CN 31: 202411357208 .9 32: 2024-09-27

54: UNIT STRUCTURE SUITABLE FOR COMPLEX CURVED SURFACE MODELING SPACE

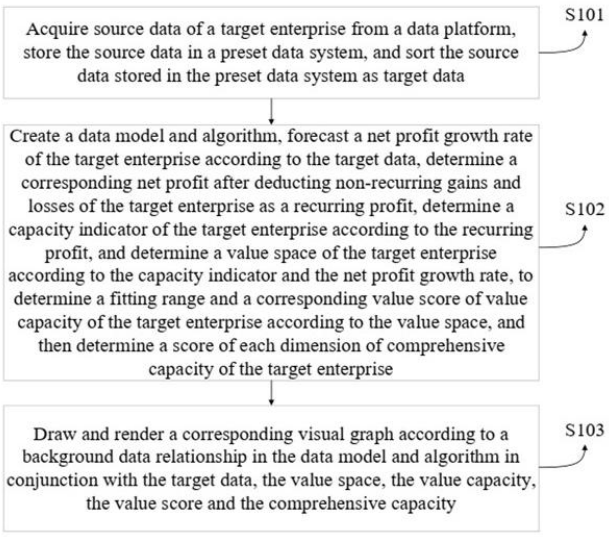
00: -

The present invention belongs to the technical field of building construction, and discloses a unit structure suitable for complex curved surface modeling space, comprising a first curved surface component connector assembly, a second curved surface component connector assembly is arranged below the first curved surface component connector assembly, and a force-applying arm assembly is arranged on one side of the first curved surface component connector assembly and the second curved surface component connector assembly. After a second connecting pin seat and a first connecting pin seat of the present invention are connected to a pin head of the curved surface modeling steel components, the first connecting arm and the second connecting arm form an outward-stretched force-enhancing support arm structure between the first curved surface component connector assembly and the second curved surface component connector assembly, that is, it plays a supporting and connection reinforcement role between the curved surface modeling steel components. The force-applying arm assembly of the present invention forms a follow-up force-enhancing connecting arm structure between the first curved surface component connector assembly and the second curved surface component connector assembly, thereby ensuring the reliability of the connection at two nodes of the curved surface modeling steel components.



21: 2025/04616. 22: 2025/05/29. 43: 2025/06/10
51: G06F
71: NDIVAL TECHNOLOGY (ZHUHAI) CO., LTD

72: HE, Qi, XIE, Zhengheng, ZHAO, Zhiyi, HE, Yichen, FU, Guiduo
33: CN 31: 202211597220.8 32: 2022-12-12
54: DATA PROCESSING AND VISUALIZATION METHOD, APPARATUS, MEDIUM AND DEVICE
00: -
The present description relates to the technical field of computers. Disclosed are a data processing and visualization method, apparatus, medium and device. The method comprises: selecting a data platform to acquire source data of a target enterprise; sorting the source data and loading the source data into a data system to serve as a source database table; executing a first data operation, so as to process the source data into target data; executing a second data operation, so as to process the target data into value-added data; executing a third data operation, so as to process relevant data into graphic data; and executing data visualization, so as to draw and render a visual graph by using the graphic data. By means of the method of the present invention, the problems of it not being possible to completely acquire source data in a timely manner and it not being possible to effectively use the unprocessed source data can be at least partially solved, thereby improving the data processing efficiency; and the accuracy of data analysis for a target enterprise is improved by means of data modeling, and background data and a front-end display such as a panel interface are automatically coupled by means of data visualization, thereby improving the effectiveness of data display, and also improving the availability of a data system.



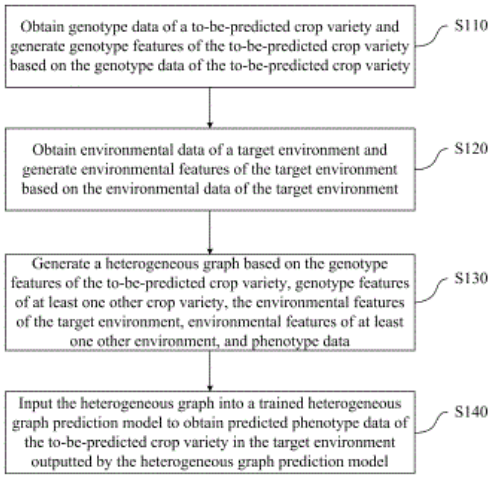
21: 2025/04805. 22: 2025/06/05. 43: 2025/06/24
51: C22B
71: Metallurgical laboratory branch of Shandong gold mining technology Co., Ltd.
72: Cai Mingming, Xu chao, Zhu Xingfu, Li Guangsheng, Lu Zhongbo, Gao Tengyue, Qin Xiangwei, Bai Ruihua, Wang Kaimei, Zhang Juntong, Zhang Jiajuan
33: CN 31: 2025101675784 32: 2025-02-17
54: A METHOD FOR EFFICIENTLY REDUCING THE MERCURY CONTENT IN THE PREGNANT SOLUTION OF THE GOLD SMELTING WATER SYSTEM
00: -
The invention belongs to the technical field of gold smelting and proposes a method for reducing the mercury content in pregnant solution from gold smelting. First, the mercury content in the pregnant solution to be treated is measured. Then, sodium diethyldithiocarbamate and a composite sulfur slow-release agent are sequentially added to the pregnant solution. The reaction is carried out at a temperature of 25°C to 35°C and a stirring speed of 150 revolutions per minute to 250 revolutions per minute for 2 to 4 hours. The composite sulfur slow-release agent is prepared from calcium thioaluminate, modified silica gel, and carbon nanotubes. Finally, the pregnant solution is subjected to filtration and separation. The invention adopts a novel composite sulfur slow-release agent, which can intelligently regulate the release rate of sulfur ions according to the ionic concentration environment in the pregnant solution. At the same time, a specific ion-selective promoter is added to precisely guide sulfur ions to preferentially combine with mercury to form a precipitate, thereby efficiently reducing the mercury content without affecting the extraction rates of gold and silver in the pregnant solution.

21: 2025/04806. 22: 2025/06/05. 43: 2025/06/24
51: G06F
71: Information Technology Research Center, Beijing Academy of Agriculture and Forestry Sciences
72: YANG, Feng, WANG, Kaiyi, PAN, Shouhui, LI, Jinlong, ZHANG, Dongfeng, LIU, Zhongqiang, HAN, Yanyun
33: CN 31: 202410925622.9 32: 2024-07-11
54: GENOMIC PREDICTION METHOD AND APPARATUS BASED ON GENOTYPE-

ENVIRONMENT INTERACTION HETEROGENEOUS GRAPH

00: -

Provided are a genomic prediction method and apparatus based on a genotype-environment interaction heterogeneous graph, relating to the technical field of bioinformatics. The method includes: obtaining genotype data of a to-be-predicted crop variety and generating genotype features of the to-be-predicted crop variety based on the genotype data of the to-be-predicted crop variety; obtaining environmental data of a target environment and generating environmental features of the target environment based on the environmental data of the target environment; generating a heterogeneous graph based on the genotype features of the to-be-predicted crop variety, genotype features of at least one other crop variety, the environmental features of the target environment, environmental features of at least one other environment, and phenotype data; and inputting the heterogeneous graph into a trained heterogeneous graph prediction model to obtain predicted phenotype data of the to-be-predicted crop variety in the target environment outputted by the heterogeneous graph prediction model.

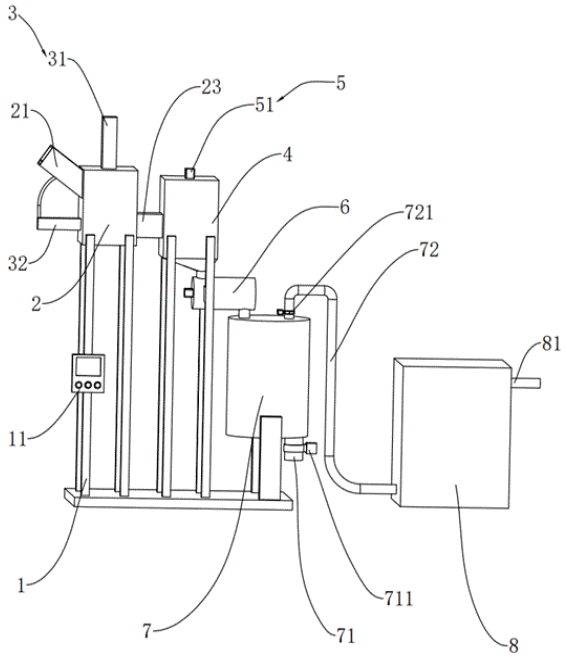


21: 2025/04936. 22: 2025/06/10. 43: 2025/06/17
51: C02F
71: Shanxi Xinxu Biology Science and Technology Co., Ltd
72: Xukui Yang, Mingxi Gu
33: CN 31: 2025102515528 32: 2025-03-05

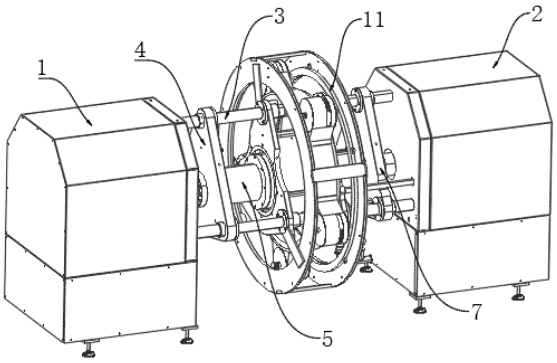
54: PYROLYSIS DEVICE FOR AUTOMATIC PLASMA EFFECT GENERATOR

00: -

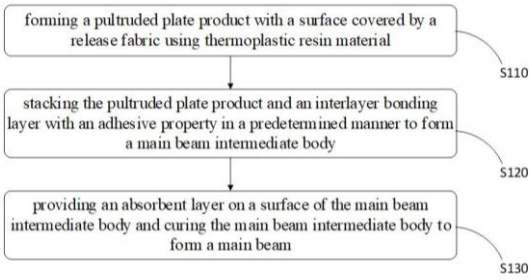
The present application relates to a pyrolysis device for an automatic plasma effect generator, relating to the technical field of chemical equipment. The device includes supports, a first crushing box, a first crushing assembly, a second crushing box, a second crushing assembly, a screw conveyor and a pyrolysis reaction kettle; the supports are arranged vertically, the first crushing box is arranged on the supports, one side of the first crushing box is arranged with a material feeding pipe, and the first crushing box is arranged with a connecting pipe; the first crushing assembly is located on the first crushing box and is used for preliminarily crushing materials; the second crushing box is located at one side of the first crushing box and is arranged on the supports, the second crushing box is communicated with the connecting pipe, and a material discharge pipe is arranged at a bottom end of the second crushing box; the second crushing assembly is located on the second crushing box and is used for crushing the materials again; the screw conveyor is located below the second crushing box and is connected to the material discharge pipe; and the pyrolysis reaction kettle is arranged at a bottom of the screw conveyor, and the pyrolysis reaction kettle is communicated with a side of the screw conveyor away from the material discharge pipe. The present application has the effect of continuous pyrolysis.



21: 2025/04937. 22: 2025/06/10. 43: 2025/06/24
51: B22F
71: Hefei Jiuzhou Times Metal Materials Technology Co., Ltd.
72: Zheng Mei
33: CN 31: 202411604976X 32: 2024-11-12
54: INSTANT DRYING DEVICE FOR COLD PRESSING OF METAL POWDER SLURRY FROM RECYCLABLE WASTE LIQUID
00: -
The present invention provides an instant drying device for cold pressing of metal powder slurry from recyclable waste liquid, falling within the technical field of metal powder processing. In the present invention, by arranging a dehydration execution unit I, a dehydration execution unit II and a drum body II, the three can jointly form a closed space to provide a space for cold pressing and drying of metal powder slurry, to complete a preliminary cold pressing molding operation of metal powder in metal slurry, and complete automatic discharge of metal powder cakes after cold pressing molding, without manual intervention, reducing labor cost. By arranging a secondary dehydration mechanism, the wastewater formed after the preliminary cold pressing and dehydration of the metal powder slurry can be dehydrated again, and the metal powder remaining in the wastewater can be recycled, avoiding the waste of the metal powder, saving the cost of cold pressing and drying of the metal powder slurry, and further avoiding the problem of polluting the surrounding environment by metal powder in the wastewater.

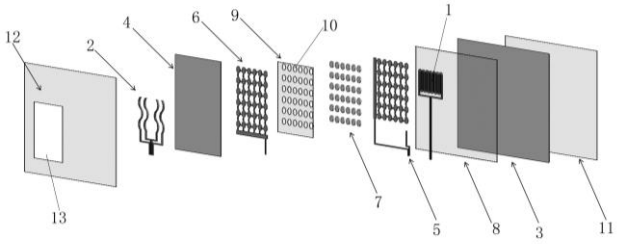


21: 2025/04970. 22: 2025/06/11. 43: 2025/07/04
51: B29C; B29D
71: SINOMA WIND POWER BLADE CO., LTD.
72: MOU, Shuxiang, LIU, Yan, WU, Baoyang, LU, Xiaofeng, LI, Chengliang
33: CN 31: 202311450720.3 32: 2023-11-02
54: METHOD FOR FORMING THERMOPLASTIC COMPOSITE MAIN BEAM AND WIND TURBINE BLADE MAIN BEAM
00: -
The present application discloses a method for forming a thermoplastic composite main beam and a wind turbine blade main beam, the method for forming comprising: forming a pultruded plate product with a surface covered by a release fabric using thermoplastic resin material; stacking the pultruded plate product and an interlayer bonding layer with an adhesive property in a predetermined manner to form a main beam intermediate body; and providing an absorbent layer on a surface of the main beam intermediate body and curing the main beam intermediate body to form a main beam. During the manufacturing of the main beam, the interlayer bonding layer can be impregnated with thermoplastic resin for the first time and store the solidified thermoplastic resin. During the curing process of the main beam intermediate body, the thermoplastic resin melts at a specified temperature and re-impregnates the fibers in the interlayer bonding layer.

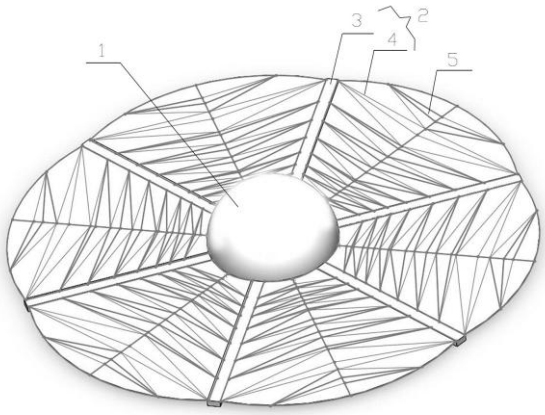


21: 2025/05071. 22: 2025/06/17. 43: 2025/06/24
51: G01D
71: Ocean University of China, Changchun University of Science and Technology
72: WEN, Qi, LI, Junyang, ZHANG, Hao, LI, Yingchao, SHI, Haodong, LI, Guanlin, WANG, Lihong, LI, Jiefei, LI, Jihao, LIU, Qindan
33: CN 31: CN202411177945.0 32: 2024-08-27
54: CTD SENSOR AND MANUFACTURING METHOD THEREOF
00: -
The present invention discloses a flexible temperature, salinity and depth (CTD) ocean sensor

and its preparation method, belonging to the field of marine environmental monitoring. The flexible sensor comprises a flexible film, on which a temperature sensor, a salinity sensor and a pressure sensor are arranged. The flexible film includes a bottom flexible film layer and a top flexible film layer. The pressure sensor consists of a bottom electrode, a top electrode and a pressure-sensitive unit layer. An insulating layer is arranged on the top surface of the bottom flexible film layer, and both the bottom electrode and the temperature sensor are arranged on the insulating layer. The top electrode is arranged on the bottom surface of the top flexible film layer, and a TPU ink layer is also arranged between the top flexible film layer and the bottom flexible film layer. The salinity sensor is arranged on the top surface of the top flexible film layer. The flexible CTD sensor of the present invention is an integrated three - dimensional sensor unit with high stability and reliability, and is conducive to integration with different platforms for marine CTD environmental monitoring.

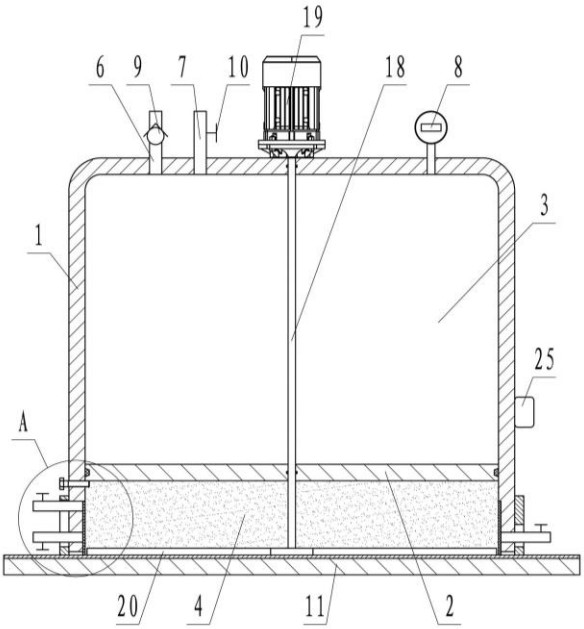


21: 2025/05082. 22: 2025/06/17. 43: 2025/06/24
51: B63H
71: Ocean University of China, Changchun University of Science and Technology
72: WEN, Qi, LI, Junyang, ZHANG, Hao, LI, Yingchao, SHI, Haodong, SUN, Hongyu, XU, Shuang, WANG, Shijie
33: CN 31: CN202410796014.2 32: 2024-06-20
54: JELLYFISH ROBOT WITH FOLDABLE BELL-SHAPED FIN STRUCTURE
00: -
The present invention belongs to the technical field of underwater equipment, and discloses a jellyfish robot with a foldable bell-shaped fin structure. The umbrella body part of the jellyfish robot is composed of multiple fan-shaped origami units and multiple SMA actuators alternately arranged and sequentially connected. Each origami unit has multiple tetrahedral structures formed by fold lines on its surface, which are set sequentially from the inside to the outside and adjacent to each other. When the jellyfish robot contracts, it saves space. The SMA wire in the SMA actuator has the characteristic of bending when heated, allowing the umbrella body part of the jellyfish robot to exhibit variable stiffness with temperature changes. When the jellyfish robot contracts, the protruding tetrahedral structures can provide collision cushioning and protection. This invention fully utilizes the folding characteristics of the origami structure and the heat-induced bending characteristics of the SMA wire to achieve the contraction of the umbrella body, which helps reduce the volume of the jellyfish robot, making it easy to carry and reducing production costs.

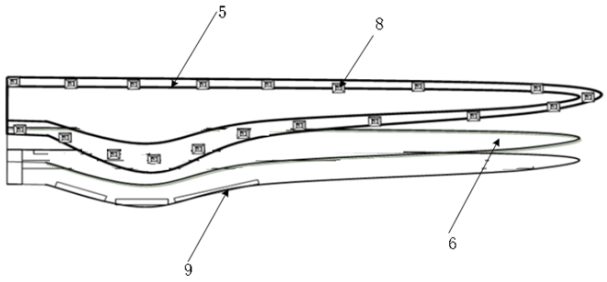


21: 2025/05093. 22: 2025/06/17. 43: 2025/06/24
51: G01B
71: CHINA CONSTRUCTION SEVENTHENGINEERING DIVISION CORP., LTD, HENAN NO.7 CONSTRUCTION ENGINEERING GROUP CO., LTD
72: YE Yushan, FENG Dakuo, LU Hailu, SHEN Shihao, MENG Qingxin, WANG Qingshan, LI Zhongzhi, LI Chengbei, ZHANG Hui, XIA Junjie, LI Erbao, HAO Yukun, ZHANG, Jin, QIN, Wei, ZHU, Yawei
33: CN 31: 202410495487 .9 32: 2024-04-24
54: A PAVEMENT STRUCTURE DEPTH DETECTION DEVICE AND ITS DETECTION METHOD
00: -
The present invention relates to a pavement structure depth detection device and its detection method, which effectively solves the problems of large errors in the sand spreading method and fundamental defects in the laser method; by carrying fine sand through the water flow and infiltrating into

the gaps of the road surface, compared to the traditional scraping method, it can more fully fill the gaps of the road surface. The reduction of fine sand in the sand storage chamber is used as the volume of fine sand infiltrating into the gaps of the road surface. Compared with the traditional method of measuring the amount of sand in advance and scraping it flat, it eliminates the subjective judgment of the scraping state. Therefore, the sand measurement method of the present invention is more reasonable. By calculating the amount of sand reduced in the sand storage chamber through changes in air pressure, it can accurately measure small volume changes. In addition, the cylinder limits the spreading area of fine sand to a constant value. The present invention can obtain more reasonable and accurate sand amount and area, and thus obtain more accurate detection results.

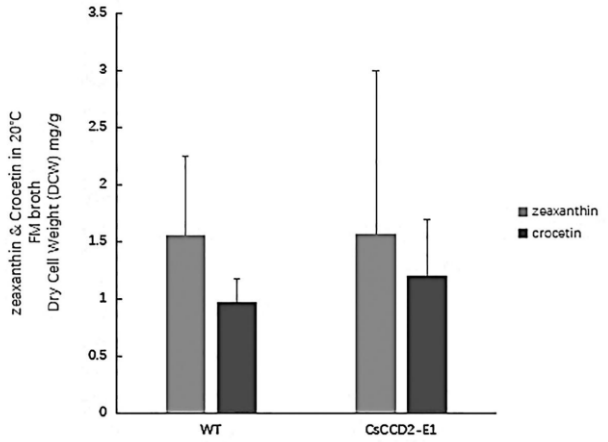


21: 2025/05098. 22: 2025/06/17. 43: 2025/07/02
51: B29C
71: SINOMA WIND POWER BLADE CO., LTD.
72: XU, Youmu, LIU, Yan, XIANG, Taocheng, WANG, Yongquan, ZHAO, Liyan
33: CN 31: 202311387797.0 32: 2023-10-24
54: WIND TURBINE BLADE, AND MANUFACTURING APPARATUS AND FORMING METHOD THEREFOR
00: -
Disclosed in the present application are a wind turbine blade, and a manufacturing apparatus and forming method therefor. The manufacturing apparatus comprises a blade resin injection assembly, the blade resin injection assembly comprising a resin injection connector group and a flow guide layer group. The resin injection connector group comprises at least one resin injection connector, and each resin injection connector comprises an accommodating portion and a discharge pipe that are connected to each other, the accommodating portion being connected to a resin injection device. The flow guide layer group comprises at least one flow guide layer, the flow guide layer being laid on the surface of a structural cloth layer component, and edges of each flow guide layer being arranged corresponding to the resin injection connectors and being directly connected to the resin injection connectors. The embodiments of the present application directly connect the resin injection connectors having a certain volume to a flow guide mesh, so that the number of resin injection openings can be effectively reduced and the arrangement of the resin injection openings can be more concentrated, which facilitates supervision. Avoiding infusion channels reduce the waste of a filling agent; in addition, after the flow guide mesh receives the filling agent delivered by the resin injection connectors, the filling agent can be uniformly distributed on the whole flow guide mesh without the need of specially controlling the corresponding flowing sequence.



21: 2025/05113. 22: 2025/06/17. 43: 2025/06/24
51: C12N; C12P; C12R
71: SHENZHEN UNIVERSITY
72: LOU, Sulin, ZHOU, Junjie, HUANG, Danqiong, LI, Hui
33: CN 31: 202410352118.4 32: 2024-03-26
54: CROCUS SATIVUS-DERIVED CSCCD2 MUTANT, GENE AND USE, AND RECOMBINANT MODEL ORGANISM PRODUCING CROCETIN
00: -

The present invention relates to the technical field of genetic engineering, and relates in particular to a Crocus sativus-derived CsCCD2 mutant, a gene and use, and a recombinant model organism producing crocetin. Compared to the protein sequence of wild-type CsCCD2, the protein sequence of the CsCCD2 mutant has a deletion of 14 amino acids at the second amino acid. Protein modification is performed on the Crocus sativus-derived CsCCD2 enzyme, improving the binding ability and cleaving ability of same with respect to zeaxanthin, having the advantages for crocetin biosynthesis of being more eco-friendly and having low costs, and providing a feasible method for crocetin production. Further, the engineered bacteria provided have high crocetin production efficiency; after 72 hours of fermentation, the concentration of crocetin can reach 1.20 mg/g.

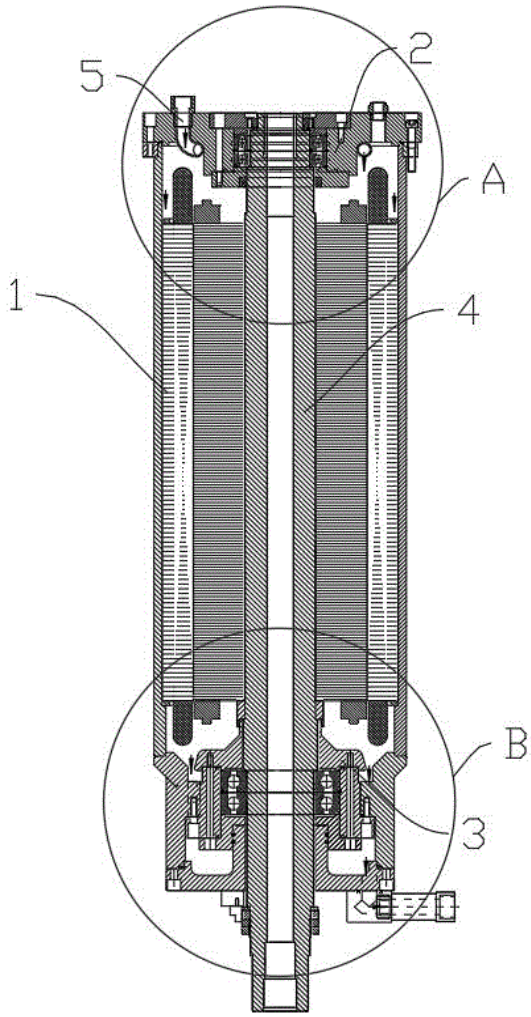


21: 2025/05211. 22: 2025/06/19. 43: 2025/06/24
51: B23Q
71: Sichuan MK Servo Technology Co., Ltd.
72: Li Yuqin, Tu Jianmin, Zeng Bingsheng, Yan Tao
33: CN 31: 2024117012067 32: 2024-11-26

54: A COOLING METHOD FOR VERTICAL ELECTRIC SPINDLE

00: -

The present invention discloses a vertical electric spindle cooling method, belonging to the field of electric spindle cooling technology, comprising: a stator, a first end cover and a second end cover respectively connected to the stator; Among them, the stator is connected to the first end cover and the second end cover to form a closed space; Further comprising a rotor set in the enclosed space, a first cooling channel set through the first end cover, and a second cooling channel set through the second end cover; Temperature sensor, used to obtain the temperature of the cooled coolant. The present invention solves the technical problem of poor circulation cooling effect, improves the machining accuracy and stability of the electric spindle, and achieves the technical effect of fully cooling the vertical electric spindle cooling system.



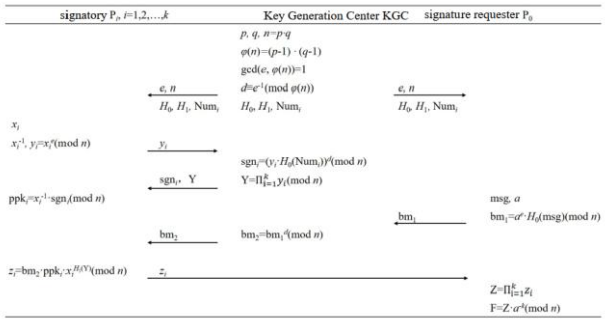
21: 2025/05441. 22: 2025/06/25. 43: 2025/07/08
51: H04L
71: INSPUR SOFTWARE TECHNOLOGY CO., LTD
72: ZHANG, Feng, LIN, Yiwei, WANG, Yangong, LI, Zhaochuan, WANG, Guanjun, CHU, Jiaxiang, WANG, Fei, ZHANG, Yue
33: CN 31: 202310705975.3 32: 2023-06-15

54: SECURE COMMUNICATION METHOD AND APPARATUS BASED ON MULTIPLE BLIND SIGNATURES

00: -

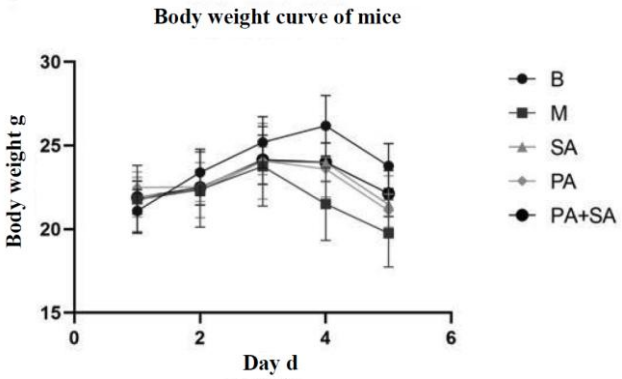
The present invention discloses a secure communication method and apparatus based on

multiple blind signatures, belonging to the technical field of information communication technology. The technical problem to be solved by the present invention is how to organically combine digital envelope and digital signature technologies, and the adopted technical solution is: S1-initialization stage; S2-key generation stage; S3-blinding stage; S4-signing stage; S5-unblinding and sending stage; S6-receiving stage. Compared with the existing technology, the present invention, through the organic combination of multiple blind signatures and digital envelopes, improves the security, trustworthiness, non-forgeability, non-replicability, and non-repudiation in the information communication process while ensuring communication efficiency, meeting the secure communication requirements in scenarios such as digital cash and electronic commerce.

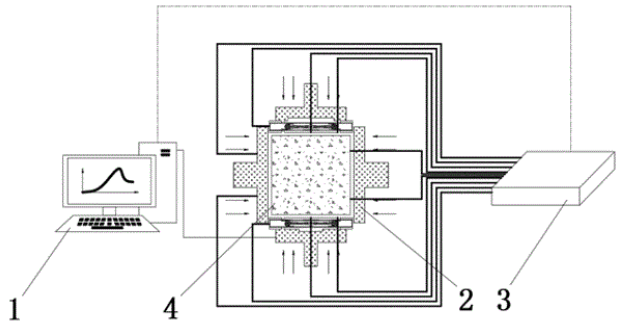


21: 2025/05576. 22: 2025/06/30. 43: 2025/07/17
51: C21D; C22C
71: ARCELORMITTAL
72: Sigrid JACOBS, Xavier CHASSANG, Elke LEUNIS
33: IB 31: PCT/IB2023/061522 32: 2023-11-15
54: A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF
00: -
The invention deals with a non-oriented electrical steel sheet having a composition comprising of the following elements, expressed in percentage by weight: 0.0001% ≤ Carbon ≤ 0.007 % 0.15% ≤ Manganese ≤ 0.25% 2.9% ≤ Silicon ≤ 3.4% 0.8% ≤ Aluminum ≤ 1.1 % Phosphorus ≤ 0.15 % Sulfur ≤ 0.006 % Nitrogen ≤ 0.09% with 3.85% ≤ Si+Al+Mn ≤ 5.5% and can contain one or more of the following optional elements 0% ≤ Niobium ≤ 0.1% 0% ≤ Titanium ≤ 0.1% 0% ≤ Vanadium ≤ 0.1% 0% ≤ Chromium ≤ 1% 0% ≤ Molybdenum ≤ 0.5% 0% ≤ Tungsten≤ 0.1% 0% ≤ Cobalt ≤ 1% 0% ≤ Arsenic ≤ 0.05% 0.001% ≤ Calcium ≤ 0.01% 0% ≤ Copper ≤ 1% 0% ≤ Nickel ≤ 1% 0 % ≤ Boron ≤ 0.05% 0 % ≤ Lead ≤ 0.2% 0% ≤ Tin≤ 0.2% 0% ≤Antimony ≤ 0.2% the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel sheet being made of ferrite and comprising in area fraction, 80% to 100% recrystallized microstructure, 0% to 20% non-recrystallized microstructure wherein the average grain size of recrystallized microstructure is from 20 microns to 110microns and having a percentage of eddy current losses in total iron losses, measured at 1 T and 400 Hz according to IEC 60404-2 standards, less than 25% when calculated in accordance of Bertotti method and simultaneously having a magnetic polarization at 5000A/m (J50) from 1.625T to 1.690T.

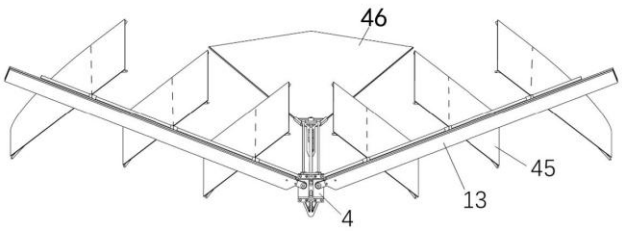
21: 2025/05720. 22: 2025/07/04. 43: 2025/07/18
51: A61K; A61P
71: SHANDONG ACADEMY OF CHINESE MEDICINE
72: Huimin, ZHANG, Jingzhi, YU, Ping, WANG, Bianli, WANG, Boyang, WANG
33: CN 31: 202311048156.2 32: 2023-08-21
54: PATCHOULI ALCOHOL, PATCHOULI ALCOHOL COMPOUND ANTIMALARIAL COMPOSITION, AND USE IN PREPARATION OF ANTI-PLASMODIAL DRUG
00: -
Disclosed are patchouli alcohol, a patchouli alcohol composite antimalarial composition, and their application in the preparation of antimalarial drugs, which belong to the technical field of pharmaceutical applications. The antimalarial drug composition consists of artesunate and patchouli alcohol. By combining patchouli alcohol with artesunate, synergistic antimalarial activity can be achieved. Both patchouli alcohol and the composite antimalarial composition reduce Plasmodium infection rates in red blood cells, alleviate malaria-induced liver and spleen edema and inflammation, decrease malarial pigment deposition in the liver and spleen, and exhibit low hepatotoxicity while exerting antimalarial activity. The patchouli alcohol exhibits significantly higher antimalarial effects than patchouli oil, and the composition of the artesunate and the patchouli alcohol exhibits a significantly higher antimalarial efficacy than either compound alone. Notably, it has more significant inhibiting effects against artesunate-resistant Plasmodium strains, indicating substantial clinical significance.



21: 2025/05838. 22: 2025/07/09. 43: 2025/07/18
51: E21C
71: Backfill Engineering Laboratory, Shandong Gold Mining Technology Co., Ltd.
72: Guangbo LI, Jinsheng XIN, Zijun SHEN, Yunpeng KOU, Pengtao WANG, Zepu SONG, Xiaodong JING, Laifa SANG, Jie LIU, Zengjia WANG, Yuhang SHENG, Zaihai WU, Jiguang YANG, Gengjie ZHU, Jiaren GUO, Liu YANG, Wenhai WANG
33: CN 31: 2024111705300 32: 2024-08-26
54: MINING BACKFILL CURING ENVIRONMENT SIMULATION TESTER AND METHOD THEREFOR
00: -
Provided is a mining backfill curing environment simulation tester and a method therefor, including a control system, a loading system, and an environment simulation and monitoring system, which are electrically connected to each other. The loading system includes a main body, loading shafts, a thermal insulation, and pressure applying units. The loading shafts include horizontal and axial loading shafts, and the main body includes a sealed container with an upper opening and an upper cover connected by bolts. The tester can apply pressure in six directions, to more comprehensively simulate the complex stress state in the actual mining environment, for higher accuracy and reliability of the results. The built-in environment simulation and monitoring system and displacement sensors can monitor the environmental conditions around the backfill test block and the compression amount in real time, to provide comprehensive and accurate data for analyzing the performance of the backfill test block.

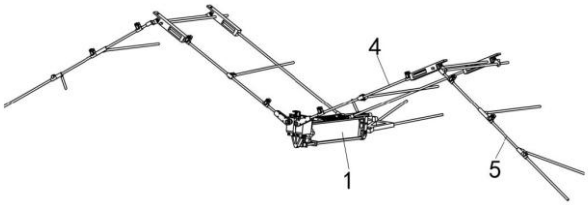


21: 2025/05848. 22: 2025/07/09. 43: 2025/07/18
51: B64C
71: QINGDAO UNIVERSITY OF TECHNOLOGY
72: ZHANG, Pingxia, YU, Shiyuan, ZHU, Yongqiang
33: CN 31: 2024111945855 32: 2024-08-29
54: A PASSIVE WING DEFLECTION FLAPPING-WING AIRCRAFT
00: -
The present invention provides a passive wing deflection flapping-wing aircraft, relating to the field of flapping-wing aircraft. It addresses the problem in existing designs where the use of drive components to actively adjust wing posture for increased lift leads to a reduction in payload ratio. In the present invention, the flaps on the wing deflection mechanism passively deflect under air pressure during the upward and downward strokes of the wings. During the upward stroke, the flaps passively deflect to reduce resistance, thereby lowering energy consumption and increasing the actuation speed of the upward motion. During the downward stroke, the flaps passively deflect in the opposite direction to enlarge the force-bearing surface and increase resistance to enhance lift. This configuration avoids the need to install active drive components to change wing posture, reduces the overall weight of the flapping-wing aircraft, improves its payload ratio, and hence expands its range of applications.



21: 2025/05849. 22: 2025/07/09. 43: 2025/07/18
51: B64C

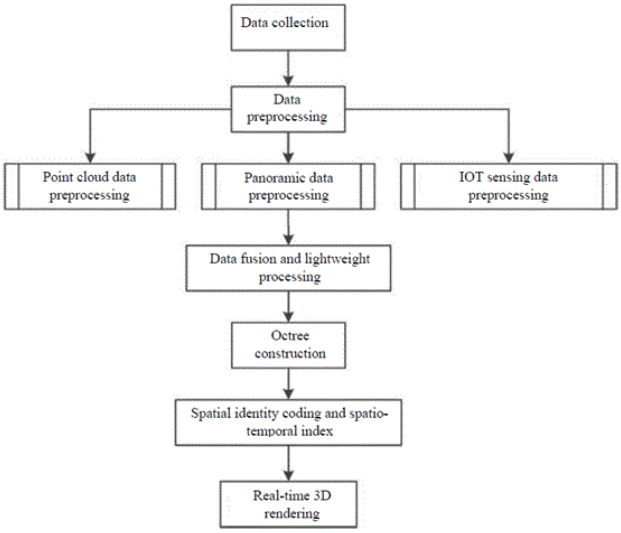
71: QINGDAO UNIVERSITY OF TECHNOLOGY
72: ZHU, Yongqiang, ZHANG, Long, ZHANG, Pingxia
33: CN 31: 2024112036633 32: 2024-08-30
54: ACTIVE DEPLOYMENT AND PASSIVE RETRACTION FLAPPING-WING AIRCRAFT
00: -
The present invention provides a flapping-wing aircraft with active deployment and passive retraction, relating to the field of flapping-wing aircraft. Aimed at the problem of low flight efficiency caused by the slow response speed of passively deployed folding wings, the invention features a wing composed of a main segment and a foldable segment hingedly connected. A traction cable passes through the main segment and extends to be fixed to the foldable segment. A winding motor and an elastic component jointly drive the traction cable to achieve tensioning and releasing. During the deployment of the foldable segment relative to the main segment, the tensioning action of the traction cable actively drives the foldable segment, thereby increasing the deployment speed of the wing, enhancing the response speed of the flapping motion, increasing the lift generated during the downward stroke of the wing, and ultimately improving flight efficiency.



21: 2025/05909. 22: 2025/07/10. 43: 2025/07/18
51: H01M
71: ZHONGHAI ENERGY STORAGE TECHNOLOGY CO., LTD.
72: Quan, XU, Xinkai, HUANG, Chunming, XU, Yingchun, NIU, Shen, WANG, Jianhua, ZENG
33: CN 31: 202411151709.1 32: 2024-08-21
54: INTEGRATED RUNNER PLATE AND ELECTRIC PILE OF FLOW BATTERY
00: -
The present invention discloses an integrated flow plate and stack for a flow battery. The integrated flow plate comprises a flow channel main plate and a flow channel sealing plate. Multiple flow channel grooves are uniformly distributed on the flow channel main plate. When the flow channel sealing plate is stacked with the flow channel main plate, the flow channel grooves of the flow channel main plate cooperate with the strip-shaped protrusions of the flow channel sealing plate to form the integrated flow plate. The integrated flow plate is uniformly arranged with flow channels equal in number to the electrodes of the flow battery, and these flow channels are separated from each other. A flow channel port is provided at the bottom of the flow plate for each flow channel. The upper part of the flow plate features a positive electrolyte common channel and a negative electrolyte common channel, with all positive flow channels communicating with the positive common channel and all negative flow channels communicating with the negative common channel. This integrated flow plate offers a simple structure, high sealing reliability, easy and convenient operation, reduces the risk of flow channel leakage, and simultaneously streamlines the stack installation process, thereby lowering costs.

21: 2025/06039. 22: 2025/07/16. 43: 2025/07/18
51: G06F
71: Jiangsu Xinghu Technology Co., Ltd.
72: Wancheng You, Liangzhang Zheng, Chao Fang, Xinping Gou, Biao Liang, Zhi Zhang, Qilong Shi, Mingyu Du
33: CN 31: 2024114374916 32: 2024-10-15
54: MULTI-SOURCE DATA FUSION-BASED SPATIAL PERCEPTION DATA STORAGE METHOD AND SYSTEM
00: -
The present invention provides a multi-source data fusion-based spatial perception data storage method and system, falling within the technical field of three-dimensional (3D) spatial data storage. In the present invention, by collecting and performing preprocessing operations on point cloud data, panoramic data and Internet of Things (IoT) sensing data, the completeness and accuracy of the data are significantly improved. The multi-source data fusion and lightweight processing realize the efficient fusion of the point cloud data, panoramic data and IoT sensing data, effectively reducing the costs of data storage and transmission. Based on a multi-source spatial data query method and real-time data interaction between a spatial database and a Web terminal, the real-world 3D rendering of a spatial perception model in real time is realized, and the

interactivity and real-time performance of data application are improved.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTISE NOTICES

No records available

3. DESIGNS

DESIGNS

APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993

The particulars appear in the following sequence: Copies of the application and representations cannot be supplied until application is registered and advertised. In all correspondence reference should be made to the number of the application. Application number, full name of applicant, class, articles to which design is to be applied and priority date (if any)

. - APPLIED ON 2025/06/20 -

A2025/00763 - Emerald Vine B.V. Class 27. ELECTRONIC CIGARETTE

A2025/00764 - Shiseido Company, Limited Class 9. BOTTLES

. - APPLIED ON 2025/06/23 -

A2025/00768 - REGENERON PHARMACEUTICALS, INC. Class 24. DRUG DELIVERY DEVICE

A2025/00766 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 12. AUTOMOBILES

F2025/00767 - Hishtil South Africa (Pty) Ltd Class 9. SEEDLING TRAYS

A2025/00770 - REGENERON PHARMACEUTICALS, INC. Class 24. DRUG DELIVERY DEVICE

A2025/00771 - REGENERON PHARMACEUTICALS, INC. Class 24. DRUG DELIVERY DEVICE

A2025/00772 - REGENERON PHARMACEUTICALS, INC. Class 24. DRUG DELIVERY DEVICE

A2025/00765 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 21. MODEL CARS

A2025/00769 - REGENERON PHARMACEUTICALS, INC. Class 24. DRUG DELIVERY DEVICE

A2025/00773 - REGENERON PHARMACEUTICALS, INC. Class 24. DRUG DELIVERY DEVICE

. - APPLIED ON 2025/06/24 -

A2025/00775 - GUANGDONG FENGLAIER HOME FURNISHINGS CO., LTD Class 07. POT

A2025/00774 - UNILEVER GLOBAL IP LIMITED Class 9. CAPSULE

. - APPLIED ON 2025/06/25 -

A2025/00778 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

A2025/00781 - Kito Corporation Class 8. LIFTING HOOKS

A2025/00777 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

A2025/00780 - Kito Corporation Class 8. LIFTING HOOKS

A2025/00779 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

A2025/00776 - Kito Corporation Class 8. LIFTING HOOKS

. - APPLIED ON 2025/06/26 -

A2025/00793 - FERRARI S.P.A. Class 21. TOY CAR

A2025/00790 - FERRARI S.P.A. Class 12. CAR

A2025/00786 - YARA INTERNATIONAL ASA Class 16. PLANT NUTRIENT METER

A2025/00782 - SOL DE JANEIRO IP, INC. Class 9. COSMETIC DISPENSER

A2025/00787 - FERRARI S.P.A. Class 12. CAR

F2025/00783 - Lionalign (Pty) Ltd Class 21. GYMNASIUM EQUIPMENT

A2025/00784 - Lionalign (Pty) Ltd Class 21. GYMNASIUM EQUIPMENT

A2025/00789 - FERRARI S.P.A. Class 12. CAR

A2025/00794 - FERRARI S.P.A. Class 21. TOY CAR

A2025/00792 - FERRARI S.P.A. Class 21. TOY CAR

A2025/00791 - FERRARI S.P.A. Class 21. TOY CAR

A2025/00788 - FERRARI S.P.A. Class 12. CAR

A2025/00785 - YARA INTERNATIONAL ASA Class 16. PLANT NUTRIENT METER

. - APPLIED ON 2025/06/27 -

A2025/00796 - Colgate-Palmolive Company Class 9. CLOSURES FOR CONTAINERS AND CONTAINERS

A2025/00802 - FIELDBAR (PTY) LTD. Class 7. GLASS

A2025/00803 - FIELDBAR (PTY) LTD. Class 7. GLASS

A2025/00798 - Colgate-Palmolive Company Class 9. CONTAINERS

A2025/00801 - Xingmai Innovation Technology (Suzhou) Co., Ltd. Class 15. SWIMMING POOL CLEANERS

A2025/00799 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

A2025/00804 - FIELDBAR (PTY) LTD. Class 7. COOLER BOX

A2025/00797 - Colgate-Palmolive Company Class 9. CLOSURES FOR CONTAINERS

A2025/00795 - BYD COMPANY LIMITED Class 12. AUTOMOBILE

A2025/00800 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

. - APPLIED ON 2025/06/30 -

A2025/00811 - Formosa Plastic (Pty) Limited Class 7. PLATES

A2025/00808 - Formosa Plastic (Pty) Limited Class 7. CONTAINERS

A2025/00806 - ONE PIXEL (PTY) LTD Class 32. SURFACE PATTERN

A2025/00805 - Moses Foley Maseko Class 14. RADIO SET BODY DESIGN

A2025/00810 - Formosa Plastic (Pty) Limited Class 7. BOWLS

F2025/00807 - ENAEX AFRICA (PTY) LTD. Class 8. DETONATOR PLACEMENT AND SECURING DEVICE

A2025/00812 - Petrus Jacobus Pienaar Class 25. TOP HAT ROAD BARRIER REFLECTOR

A2025/00809 - Formosa Plastic (Pty) Limited Class 32. SURFACE PATTERNS

. - APPLIED ON 2025/07/02 -

A2025/00816 - Formosa Plastic (Pty) Limited Class 7. CONTAINERS

A2025/00813 - YETI COOLERS, LLC Class 7. INSULATING CONTAINER

F2025/00817 - Formosa Plastic (Pty) Limited Class 7. CONTAINERS

F2025/00815 - BREATHESAFE PTY LTD Class 23. AIR FILTER ASSEMBLY

A2025/00814 - Dr. Ing. h.c. F. Porsche Aktiengesellschaft Class 12. AUTOMOBILES

. - APPLIED ON 2025/07/03 -

F2025/00819 - WAVE PAPER (PTY) LTD Class 23. A BLANK FOR AN AIR FLOW DISTRIBUTION DEVICE

F2025/00821 - Thulani Khumalo Class 25. SMART MANHOLE COVER

A2025/00820 - Thulani Khumalo Class 25. SMART MANHOLE COVER

F2025/00818 - WAVE PAPER (PTY) LTD Class 23. A BLANK FOR AN AIR FLOW DISTRIBUTION DEVICE

. - APPLIED ON 2025/07/04 -

A2025/00822 - UNIVERSITY OF JOHANNESBURG Class 06. A TABLE

F2025/00823 - UNIVERSITY OF JOHANNESBURG Class 06. A TABLE

. - APPLIED ON 2025/07/07 -

F2025/00826 - JP Smith Class 12. REMOVABLE UPRIGHT FOR MODIFIED FLAT DECK TRAILER

A2025/00824 - SOLARKY MOBILITY TECHNOLOGIES CO., LTD. Class 12. PHOTOVOLTAIC ELECTRIC VEHICLE

F2025/00825 - JP Smith Class 12. REMOVABLE UPRIGHT FOR MODIFIED FLAT DECK TRAILER

. - APPLIED ON 2025/07/08 -

A2025/00827 - PALMIOLI, Danielle, PALMIOLI, Emmanuele, PALMIOLI, Stefano Class 9. PALLETS

A2025/00828 - Louis Class 03. KAROO UITSIG GUESTHOUSE

F2025/00830 - Bonga Ntunta, Nathene Samuels Class 03. MULTI-COMPARTMENT CHEF BACKPACK WITH DETACHABLE KNIFE ROLL

A2025/00829 - The South Promo Channel Class 32. CLASSIC DESIGN

. - APPLIED ON 2025/07/09 -

A2025/00832 - OMICRON electronics GmbH Class 10. TESTING INSTRUMENTS

A2025/00831 - OMICRON electronics GmbH Class 10. TESTING INSTRUMENTS

. - APPLIED ON 2025/07/10 -

F2025/00833 - Loulene Class 02. INTERCHANGEABLE PACTHES SYSTEM

. - APPLIED ON 2025/07/11 -

A2025/00836 - OMEGA SA (OMEGA AG) (OMEGA LTD.) Class 10. WATCH

A2025/00834 - PMS INTERNATIONAL GROUP PLC Class 21. SET OF DOLLS

A2025/00835 - PMS INTERNATIONAL GROUP PLC Class 21. SET OF DOLLS

. - APPLIED ON 2025/07/14 -

A2025/00837 - Mhlayonke Biyase Class 05. MULTICOLOURED GRID PATTERN FOR TEXTILE USE

. - APPLIED ON 2025/07/15 -

F2025/00840 - Barend Craven Class 08. LLPF SECURITY DRIVER PIN

A2025/00839 - HYBERNON (PTY) LTD Class 21. BOARD GAME

F2025/00838 - Roadque (Pty) Ltd Class 12. A CANOPY

. - APPLIED ON 2025/07/16 -

A2025/00841 - Zhejiang Shisha New Energy Technology Co. Ltd Class 01. BROAD BEANS

F2025/00842 - COCHRANE GULF FZE Class 25. FENCE PANEL

F2025/00843 - COCHRANE GULF FZE Class 25. FENCE PANEL

. - APPLIED ON 2025/07/17 -

F2025/00847 - HAMMOND, John Class 6. BUNK BED

F2025/00845 - UNIVERSITY OF JOHANNESBURG Class 24. A SENSORY-REGULATION AID

A2025/00844 - HAMMOND, John Class 6. BUNK BED

A2025/00846 - UNIVERSITY OF JOHANNESBURG Class 24. A SENSORY-REGULATION AID

. - APPLIED ON 2025/07/18 -

A2025/00856 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

A2025/00857 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

A2025/00852 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

A2025/00851 - JT INTERNATIONAL S.A. Class 27. REMOVABLE COVER OF AN ELECTRONIC CIGARETTE

A2025/00849 - JT INTERNATIONAL S.A. Class 27. ELECTRONIC CIGARETTE

A2025/00850 - JT INTERNATIONAL S.A. Class 27. ELECTRONIC CIGARETTE BODY

F2025/00858 - Ruth Blatt Class 01. MODULAR INTERLOCKING BOTTLE CAP SYSTEM FOR EDUCATIONAL AND RECREATIONAL USE

F2025/00848 - UNIVERSITY OF JOHANNESBURG Class 16. A MODULAR EYEWEAR FRAME ASSEMBLY

A2025/00855 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

A2025/00853 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

A2025/00854 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH GRAPHICAL USER INTERFACES

. - APPLIED ON 2025/07/21 -

A2025/00861 - Juro Trading PTY LTD Class 25. KIOSK

F2025/00859 - UNIVERSITY OF JOHANNESBURG Class 24. AN ERGONOMIC FOOT-MOVEMENT AND MASSAGE AID

F2025/00862 - Juro Trading PTY LTD Class 25. KIOSK

A2025/00863 - MONTRES TUDOR SA Class 10. PART OF A CLASP FOR A WATCH BRACELET

A2025/00860 - UNIVERSITY OF JOHANNESBURG Class 24. AN ERGONOMIC FOOT-MOVEMENT AND MASSAGE AID

. - APPLIED ON 2025/07/22 -

A2025/00865 - SMIT, Johann Andries Class 20. DISPLAY STANDS

F2025/00866 - Uniloq (Pty) Ltd Class 08. A LOCK

F2025/00864 - SMIT, Johann Andries Class 20. DISPLAY STANDS

. - APPLIED ON 2025/07/23 -

A2025/00873 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH ANIMATED GRAPHICAL USER INTERFACES

F2025/00868 - BENNETTO, Peter Geoffrey Class 12. ROAD VEHICLE TRAILERS

F2025/00869 - BENNETTO, Peter Geoffrey Class 12. ROAD VEHICLE TRAILERS

A2025/00874 - CAPBRAN HOLDINGS, LLC Class 31. BLENDER

A2025/00871 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH ANIMATED GRAPHICAL USER INTERFACES

A2025/00872 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH ANIMATED GRAPHICAL USER INTERFACES

A2025/00870 - Huawei Technologies Co., Ltd. Class 14. DISPLAY SCREENS OR PORTIONS THEREOF WITH ANIMATED GRAPHICAL USER INTERFACES

F2025/00867 - BENNETTO, Peter Geoffrey Class 12. ROAD VEHICLE TRAILERS

. - APPLIED ON 2025/07/24 -

A2025/00877 - WAHL CLIPPER CORPORATION Class 28. HAIR CLIPPER

A2025/00889 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH BRISTLES

A2025/00885 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00886 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00887 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH BRISTLE

A2025/00888 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH BRISTLES

A2025/00876 - WAHL CLIPPER CORPORATION Class 28. HAIR CLIPPER

F2025/00875 - MCDOUALL, Francis, John, Stephen Class 7. A ROASTING OR BAKING LINER

A2025/00884 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00881 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00891 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00890 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00878 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00879 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00883 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00880 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH

A2025/00882 - TANGLE TEEZER LIMITED Class 4. HAIR BRUSH BRISTLE

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 I AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART I

Design No. : F2025/00167

Applicant : Adrian de Villiers

Class : 06

Article to which the Design is to be Applied: LAPTOP ADJUSTABLE BEDSIDE TABLE

Date of Lodgment: 13/02/2025

Registrar of Designs

APPLICATIONS TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION (SECTIONS 26, 27/REGULATION 41)

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART I AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART I

Design No. : F2024/00919

Applicant : JOSHUA MUTHUSAMY

Class : 10

Article to which the Design is to be Applied: STOCK COUNT INNOVATION

Date of Lodgment: 17/09/2024

Registrar of Designs

APPLICATIONS TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION (SECTIONS 26, 27/REGULATION 41)

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART I AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART I

Design No. : F2024/01381

Applicant : Sandvik Mining and Construction Oy

Class : 15

Article to which the Design is to be Applied: PRESSURE ACCUMULATORS FOR ROCK DRILLS

Date of Lodgment: 20/12/2024

Registrar of Designs

APPLICATIONS TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION (SECTIONS 26, 27/REGULATION 41)

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART I AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY NOT BE INSPECTED AND MAY NOT BE OPPOSED.

PART I

Design No. : A2024/01347

Applicant : Caterpillar Inc.

Class : 15

Article to which the Design is to be Applied: CUTTING EDGES FOR MOTOR GRADERS

Date of Lodgment: 17/12/2024

Registrar of Designs

APPLICATIONS TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION (SECTIONS 26, 27/REGULATION 41)

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART II AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY BE INSPECTED AND MAY BE OPPOSED.

PART II

Design No. : A2023/01250

Applicant : SONY INTERACTIVE ENTERTAINMENT INC.

Class : 14

Article to which the Design is to be Applied: COVER FOR ELECTRONIC DEVICE

Date of Lodgment: 21/11/2023

Registrar of Designs

APPLICATIONS TO CORRECT AND/OR AMEND DESIGNS APPLICATION OR REGISTRATION (SECTIONS 26, 27/REGULATION 41)

THE DESIGN APPLICATION TO BE CORRECTED OR AMENDED IS OPEN FOR PUBLIC INSPECTION. THE PARTICULARS TO BE PUBLISHED SHALL BE THOSE SET OUT IN PART II AN APPLICATION FOR CORRECTION OR AMENDMENT SO PUBLISHED MAY BE INSPECTED AND MAY BE OPPOSED.

PART II

Design No. : A2024/00773

Applicant : FLENDER INDUSTRIEGETRIEBE GMBH.

Class : 14

Article to which the Design is to be Applied: GEARBOX CASING

Date of Lodgment: 01/08/2024

Registrar of Designs

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page.

The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgment. **(23)** release date (if applicable). **(43)** Date of registration. **(52)** Class. **(24)** Type of design. **(71)** Name(s) of applicant(s). **(33)**

Country. **(31)** Number and. **(32)** Date of convention application. **(54)** Articles to which design is to be applied. **(57)** Brief statement of features.

N.B.: Date of registration **(43)** is either Date of lodgment **(22)** or Date of convention of application **(32)** whichever is the earlier.

Registrar of Designs

21: A2023/00118 22: 2023-01-26 23:
43: 2020-10-28
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
54: AUTOMOBILES
57: The design is for an automobile in the form of a curved, sporty SUV. A front part is provided above a front bumper. The front part is substantially rectangular and has two opposed substantially triangular shaped openings, each accommodating front lights. Two headlights are provided on the sides of a front and a bonnet curves downwardly between the headlights. An inclined rear window extends between a roof and a tail. A taillight bar extends around the tail, having a seamless appearance across sides of the body and the boot door. The automobile has a rear diffuser.

Figure 1

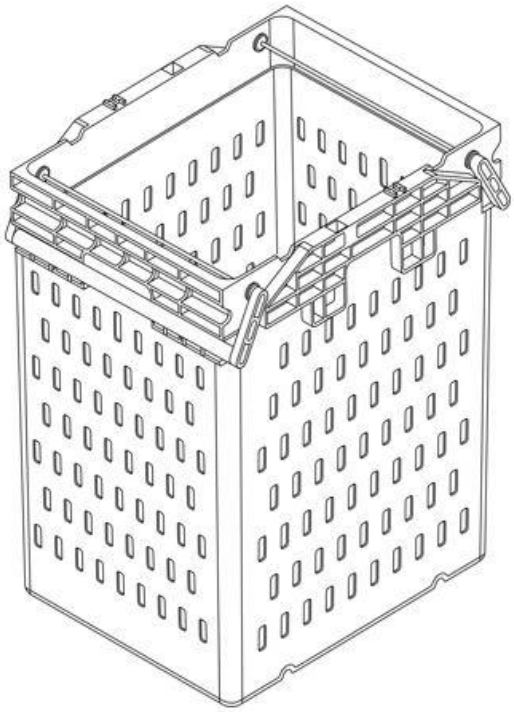
Three-dimensional view

21: A2023/00119 22: 2023-01-26 23:
43: 2020-10-28
52: Class 8 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
54: KEYS
57: The design is for a key substantially as shown in the representations. The key has an elongate body that has a waisted central portion and outwardly curved lower and upper parts. A front face of the lower part defines a badge-shaped retention socket. An elongate, rectangular member is provided on the front part of the body and extends between the lower part and upper part. A horizontally extending protrusion is provided substantially at the centre of the rectangular member. Inclined recesses are provided on the upper part of the body. A free end of the rectangular member and a wall of the upper part are spaced apart thereby define a gap between them. The front face has a contoured outline.

Figure 1

Three-dimensional view

21: A2023/01391 22: 2023-12-12 23:
43: 2025-06-18
52: Class 09 24: Part A
71: TRENSTAR SA (PTY) LTD
54: A CONTAINER
57: The design is applied to a container. 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 container, substantially as illustrated in the accompanying representations.



21: A2024/00075 22: 2024-01-02 23:
43: 2025-06-06
52: Class 03 24: Part A
71: FIKILE (PTY) LTD
54: EVENING BAG
57: The features of the design for which protection is sought are those features of shape and/or configuration and/or pattern and/or ornamentation applied to the evening bag shown in the representations.

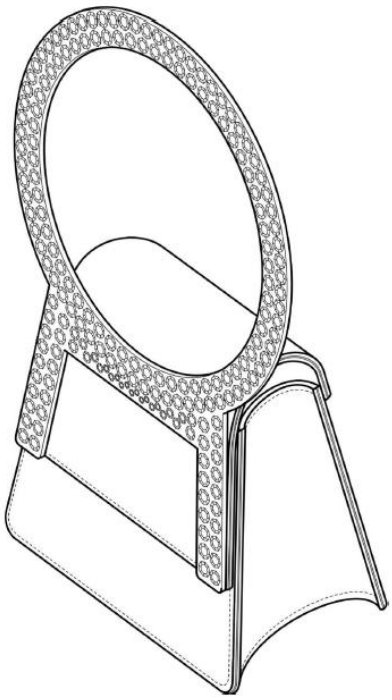


Figure 1

Perspective View

21: A2024/00076 22: 2024-01-02 23:
43: 2025-06-06
52: Class 03 24: Part A
71: FIKILE (PTY) LTD
54: CLAPS
57: The features of the design for which protection is sought are those features of shape and/or configuration and/or pattern and/or ornamentation applied to the evening bag shown in the representations.

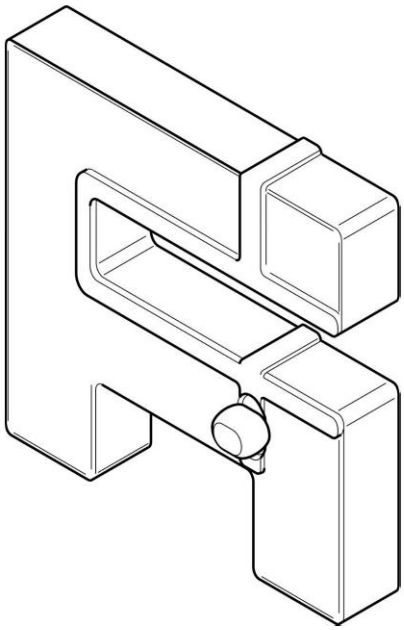
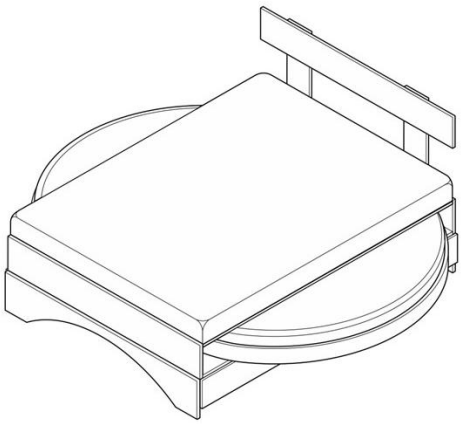


Figure 1

Perspective View

21: A2024/00115 22: 2024-01-30 23:
43: 2025-07-09
52: Class 06 24: Part A
71: PEALE, Gift
54: A BED
57: The novelty of the design resides in the shape and configuration of A BED, adjustable between first and second configurations, the second configuration being substantially as shown in the accompanying representation



21: A2024/00291 22: 2024-03-22 23:
43: 2024-03-22
52: Class 24 24: Part A
71: TARIS Biomedical LLC

54: STYLETS FOR URINARY PLACEMENT CATHETERS
57: The design is for a stylet for a urinary placement catheter. It is the overall design of the stylet that is claimed. The stylet has a slender, cylindrical shaft and a handle at one end of the shaft. The handle has body that has a protruding elongate portion that is coaxial with the longitudinal axis of the shaft. The elongate portion defines a channel through which a portion of the shaft is accommodated. The body has an ellipsoid-shaped proximal end that surrounds a portion of the shaft, an inwardly curved, ellipsoid shaped distal end accommodating an end of the shaft, as well as outwardly curved wings extending rearwardly between the proximal and distal ends.

Figure 1

Three-dimensional view

21: A2024/00292 22: 2024-03-22 23:
43: 2024-03-22
52: Class 24 24: Part A
71: TARIS Biomedical LLC
54: HANDLES OF STYLETS FOR URINARY PLACEMENT CATHETERS
57: The design is for a handle of a stylet for a urinary placement catheter. It is the overall design of the handle that is claimed. The handle has body that has a protruding elongate portion, defining a channel, on the upper and lower faces thereof. The body has an ellipsoid-shaped proximal end; an inwardly curved, ellipsoid shaped distal end; and outwardly curved wings extending rearwardly between the proximal and distal ends. A pair of arc-shaped members spanning a major portion of upper and lower faces of the body are provided proximate the distal end. A pair of centrally located rectangular-shaped members are provided on the surface of the protruding elongate portion on the upper and lower

faces proximate the proximal end. Circular members are provided on either side of the lowermost rectangular-shaped member.

Figure 1

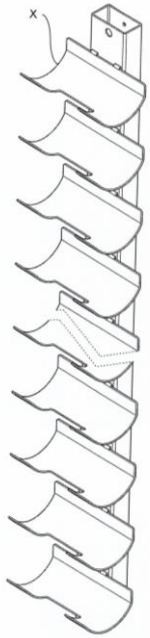
Three-dimensional view

21: A2024/00293 22: 2024-03-22 23:
43: 2024-03-22
52: Class 24 24: Part A
71: TARIS Biomedical LLC
54: STYLETS OF INDEFINITE LENGTH FOR URINARY PLACEMENT CATHETERS
57: The design is for a stylet for a urinary placement catheter. It is the overall design of the stylet that is claimed. The stylet has a slender, cylindrical shaft of indefinite length and a handle at one end thereof. The handle has a body that has a protruding elongate portion, defining a channel that accommodates a portion of the shaft, on the upper and lower faces thereof. The body has an ellipsoid-shaped proximal end that surrounds a portion of the shaft; an inwardly curved, ellipsoid shaped distal end accommodating an end of the shaft; and outwardly curved wings extending rearwardly between the proximal and distal ends. A pair of arc-shaped members spanning a major portion of upper and lower faces of the body are provided proximate the distal end. A pair of centrally located rectangular-shaped members are provided on the surface of the protruding elongate portion on the upper and lower faces proximate the proximal end. Circular members are provided on either side of the lowermost rectangular-shaped member.

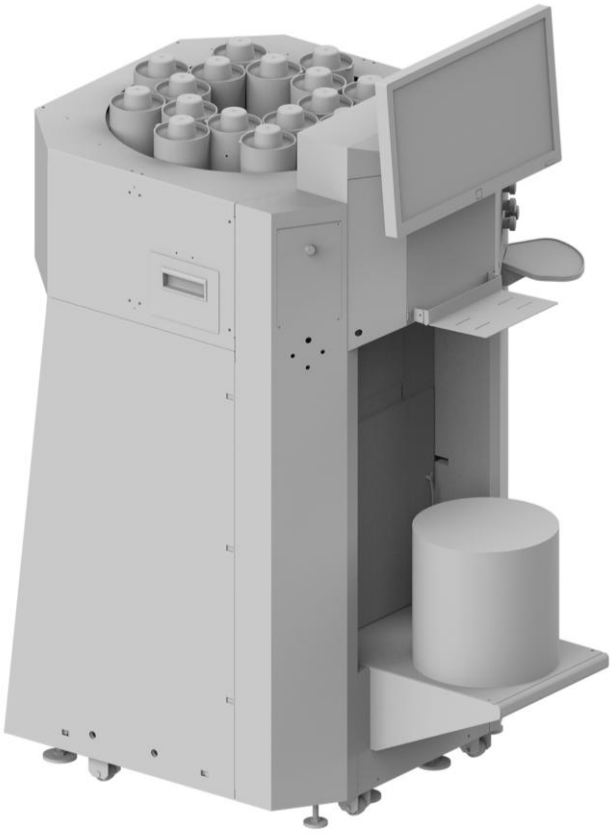
Figure 1

Three-dimensional view

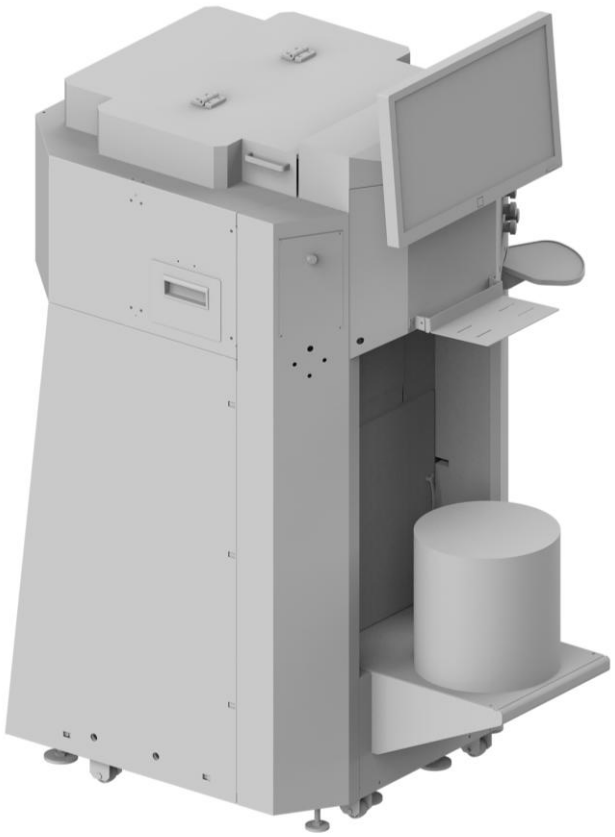
21: A2024/00344 22: 2024-04-08 23:
43: 2025-07-09
52: Class 06 24: Part A
71: COCHRANE STEEL PRODUCTS (PTY) LTD
54: BOTTLE HOLDER
57: The features for which protection is claimed reside in the shape and/or configuration of a bottle holder, substantially as shown in the accompanying drawing. The number of members “X” is variable.



21: A2024/00400 22: 2024-04-26 23:
43: 2025-06-18
52: Class 15 24: Part A
71: ZHENGZHOU SANHUA TECHNOLOGY & INDUSTRY CO., LTD.
33: CN 31: 2023307178787 32: 2023-11-03
54: COLOUR MIXING AND BLENDING MACHINE.
57: The product incorporating the design is a colour mixing and blending machine and may be used for color matching and adjustment of latex paint, as well as for mixing and blending latex paint.



21: A2024/00401 22: 2024-04-26 23:
43: 2025-06-18
52: Class 15 24: Part A
71: ZHENGZHOU SANHUA TECHNOLOGY & INDUSTRY CO., LTD.
33: CN 31: 2023307178787 32: 2023-11-03
54: COLOUR MIXING AND BLENDING MACHINE.
57: The product incorporating the design is a colour mixing and blending machine and may be used for color matching and adjustment of latex paint, as well as for mixing and blending latex paint.



21: A2024/00416 22: 2024-05-02 23:
43: 2023-11-03
52: Class 24 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,793 32: 2023-11-03
54: MEDICAL DEVICES
57: The design is a medication delivery device. The device has a cylindrical central portion which includes a rectangular border which is open at one end, and which encloses a solid blocked arrow at the other end, the arrow pointing towards the open end.

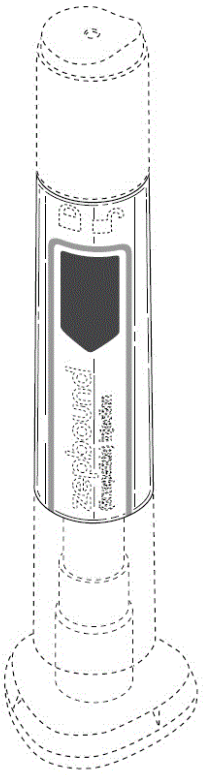


Figure 1
Three-dimensional view

21: A2024/00417 22: 2024-05-02 23:
43: 2023-11-03
52: Class 24 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,793 32: 2023-11-03
54: MEDICAL DEVICES
57: The design is a medication delivery device. The device has a cylindrical central portion which includes a rectangular border which is open at one end, and which encloses a solid blocked arrow at the other end, the arrow pointing towards the open end.

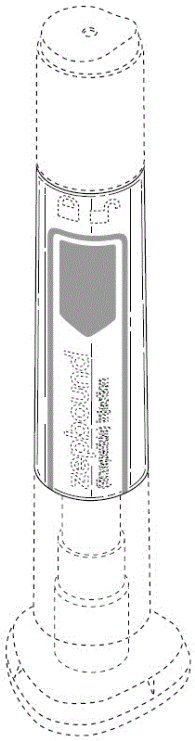


Figure 1
Three-dimensional view

21: A2024/00418 22: 2024-05-02 23:
43: 2023-11-03
52: Class 24 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,793 32: 2023-11-03
54: MEDICAL DEVICES
57: The design is a medication delivery device. The device has a cylindrical central portion which includes a rectangular border which is open at one end, and which encloses a solid blocked arrow at the other end, the arrow pointing towards the open end.

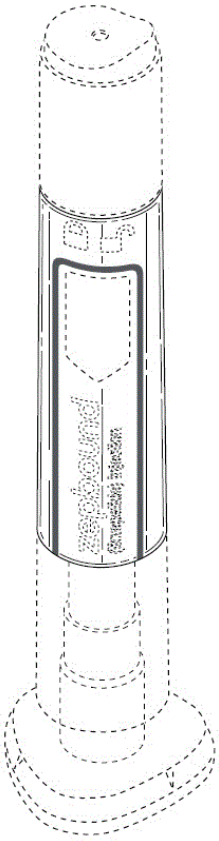


Figure 1
Three-dimensional view

21: A2024/00419 22: 2024-05-02 23:
43: 2023-11-03
52: Class 24 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,793 32: 2023-11-03
54: MEDICAL DEVICES
57: The design is a medication delivery device. The device has a cylindrical central portion which includes a rectangular border which is open at one end, and which encloses a solid blocked arrow at the other end, the arrow pointing towards the open end.

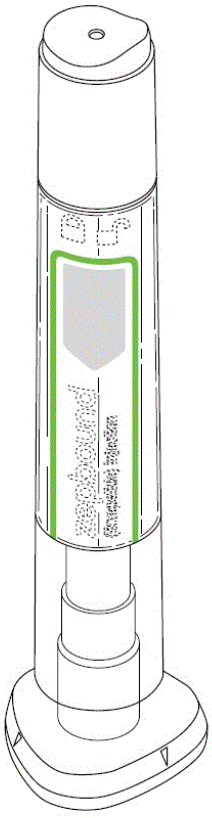
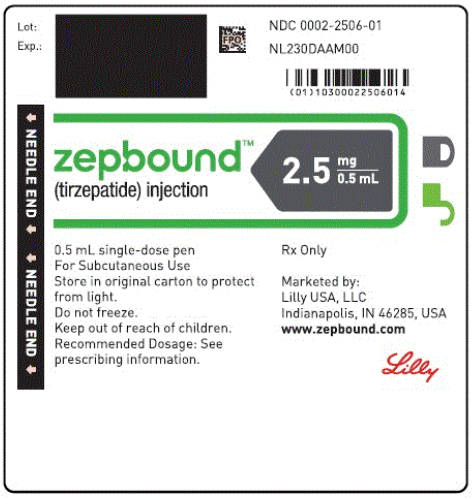


Figure 1
Three-dimensional view

21: A2024/00425 22: 2024-05-06 23:
43: 2023-11-06
52: Class 20 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,908 32: 2023-11-06
54: LABELS
57: The design is for a label having a rectangular shape with rounded corners. In a top portion, the label comprises an information box, a QR code, and a barcode. Below the aforementioned, but above centre, the label comprises an outlined box extending laterally with one minor side being open and an opposite minor side being closed. Inside the outlined box, at the closed minor side, is a block with a pointed end which is pointed towards the open minor side. Adjacent the outlined box, at the closed minor side, are two lock figures, one opened and one closed. Below the outlined box are two columns for writing. Along a major side of the label, at the open minor side of the outlined box, is an elongate block with arrows pointed towards the elongate side.



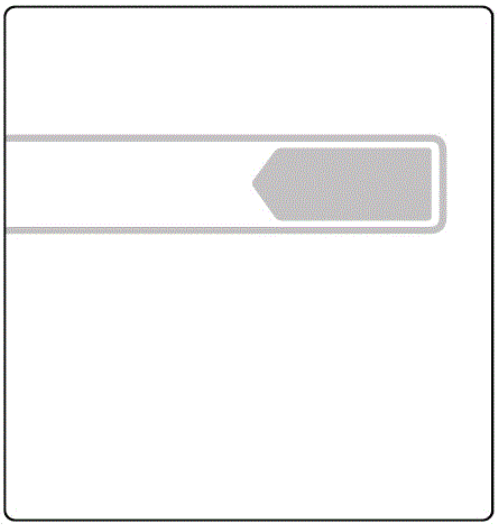
Sole figure

Front view

21: A2024/00426 22: 2024-05-06 23:
43: 2023-11-06
52: Class 20 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,908 32: 2023-11-06

54: LABELS

57: The design is for a label having a rectangular shape with rounded corners. Above centre, the label comprises an outlined box extending laterally with a minor side being open and which meets a major side of the label, and an opposite minor side being closed with rounded corners. Inside the outlined box, at the closed minor side, is a block with a pointed end which is pointed towards the open minor side.



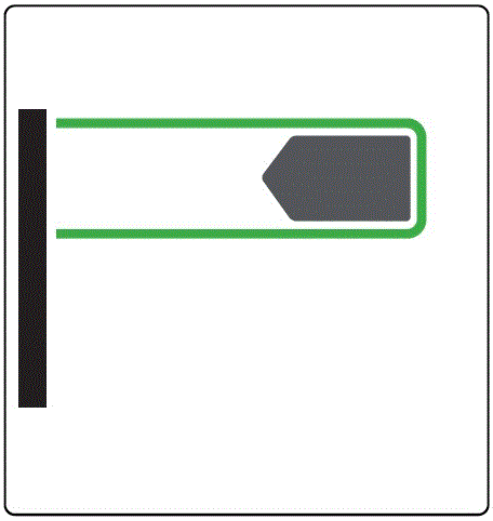
Sole figure

Front view

21: A2024/00427 22: 2024-05-06 23:
43: 2023-11-06
52: Class 20 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,908 32: 2023-11-06

54: LABELS

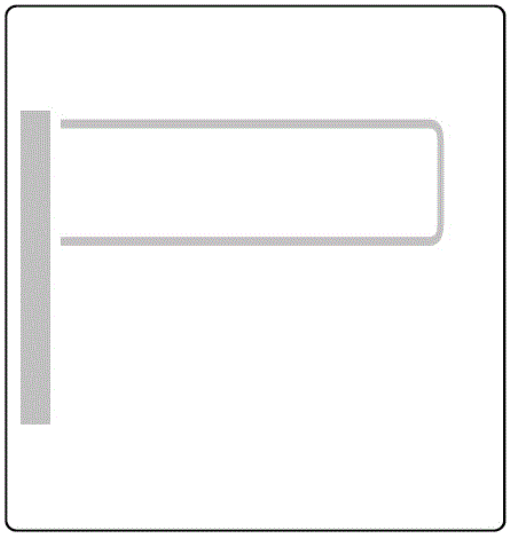
57: The design is for a label having a rectangular shape with rounded corners. Above centre, the label comprises an outlined box extending laterally with a minor side being open and an opposite minor side being closed with rounded corners. Inside the outlined box, at the closed minor side, is a block with a pointed end which is pointed towards the open minor side. Along a major side of the label, at the open minor side, is an elongate box longitudinally arranged in parallel with the major side.



Sole figure

Front view

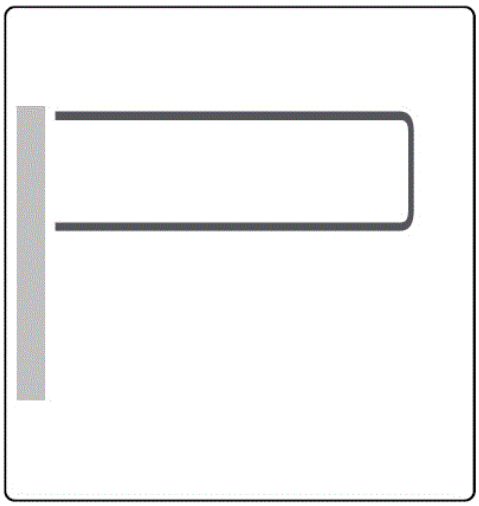
21: A2024/00428 22: 2024-05-06 23:
43: 2023-11-06
52: Class 20 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,908 32: 2023-11-06
54: LABELS
57: The design is for a label having a rectangular shape with rounded corners. Above centre, the label comprises an outlined box extending laterally with a minor side being open and an opposite minor side being closed with rounded corners. Along a major side of the label, at the open minor side, is an elongate block longitudinally arranged in parallel with the major side.



Sole figure

Front view

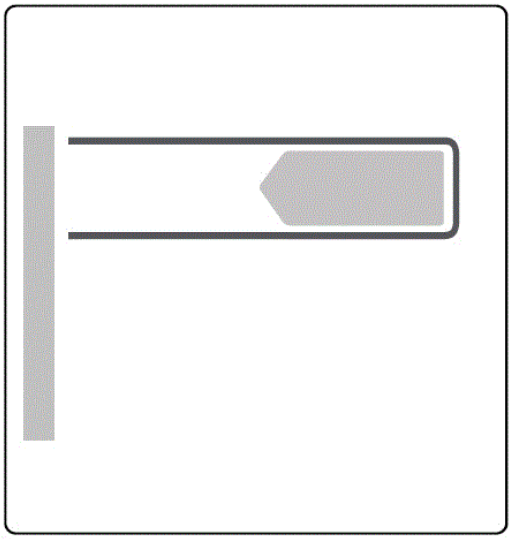
21: A2024/00429 22: 2024-05-06 23:
43: 2023-11-06
52: Class 20 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,908 32: 2023-11-06
54: LABELS
57: The design is for a label having a rectangular shape with rounded corners. Above centre, the label comprises an outlined box extending laterally with a minor side being open and an opposite minor side being closed with rounded corners. Along a major side of the label, at the open minor side, is an elongate block longitudinally arranged in parallel with the major side.



Sole figure

Front view

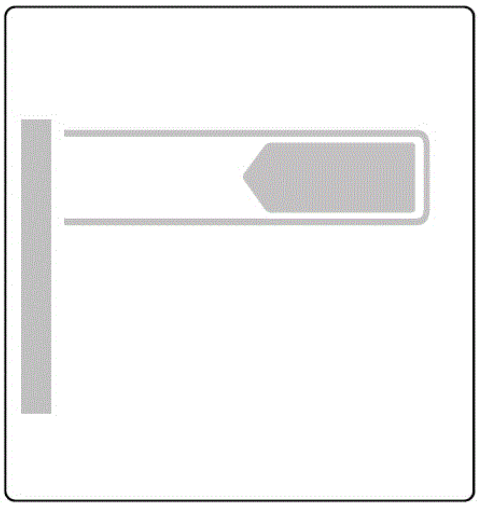
21: A2024/00430 22: 2024-05-06 23:
43: 2023-11-06
52: Class 20 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,908 32: 2023-11-06
54: LABELS
57: The design is for a label having a rectangular shape with rounded corners. Above centre, the label comprises an outlined box extending laterally with a minor side being open and an opposite minor side being closed with rounded corners. Inside the outlined box, at the closed minor side, is a block with a pointed end which is pointed towards the open minor side. Along a major side of the label, at the open minor side, is an elongate block longitudinally arranged in parallel with the major side.



Sole figure

Front view

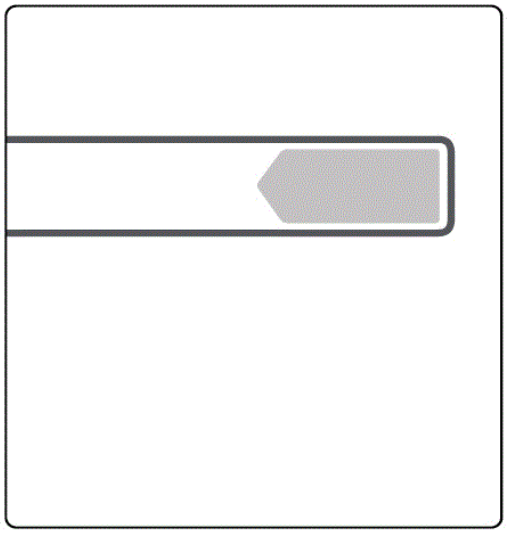
21: A2024/00431 22: 2024-05-06 23:
43: 2023-11-06
52: Class 20 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,908 32: 2023-11-06
54: LABELS
57: The design is for a label having a rectangular shape with rounded corners. Above centre, the label comprises an outlined box extending laterally with a minor side being open and an opposite minor side being closed with rounded corners. Inside the outlined box, at the closed minor side, is a block with a pointed end which is pointed towards the open minor side. Along a major side of the label, at the open minor side, is an elongate block longitudinally arranged in parallel with the major side.



Sole figure

Front view

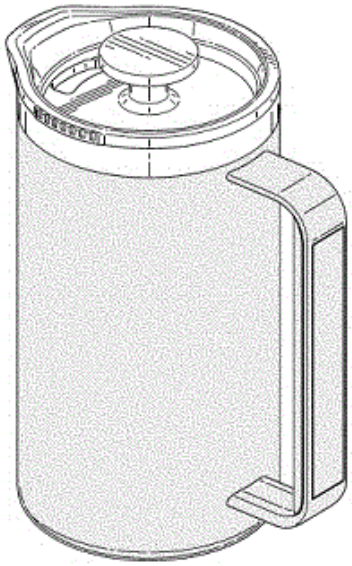
21: A2024/00432 22: 2024-05-06 23:
43: 2023-11-06
52: Class 20 24: Part A
71: Eli Lilly and Company
33: US 31: 29/915,908 32: 2023-11-06
54: LABELS
57: The design is for a label having a rectangular shape with rounded corners. Above centre, the label comprises an outlined box arranged laterally with a minor side being open and which extends to a major side of the label, and an opposite minor side being closed with rounded corners. Inside the outlined box, at the closed minor side, is a block with a pointed end which is pointed towards the open minor side.



Sole figure

Front view

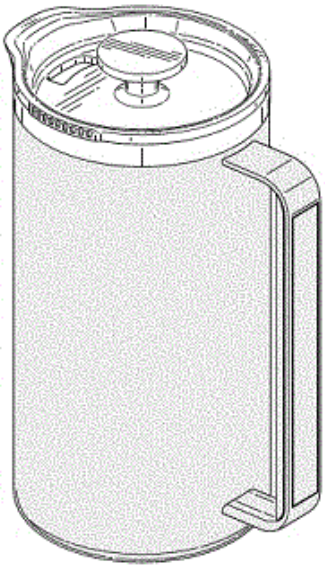
21: A2024/00448 22: 2024-05-10 23:
43: 2025-05-19
52: Class 7. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/906,905 32: 2023-11-13
54: Container or Beverage Maker
57: The design relates to a container or beverage maker. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW

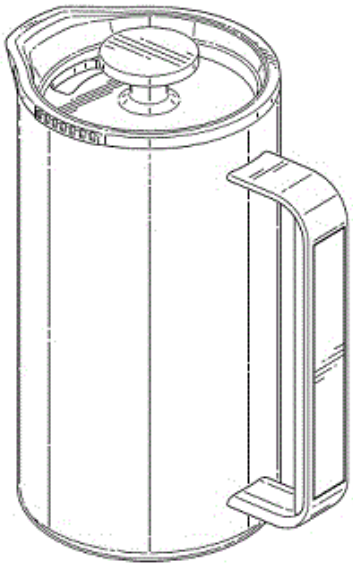
21: A2024/00449 22: 2024-05-10 23:

43: 2025-05-19
52: Class 7. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/906,905 32: 2023-11-13
54: Container or Beverage Maker
57: The design relates to a container or beverage maker. The features of the design are those of shape and/or configuration and/or ornamentation.



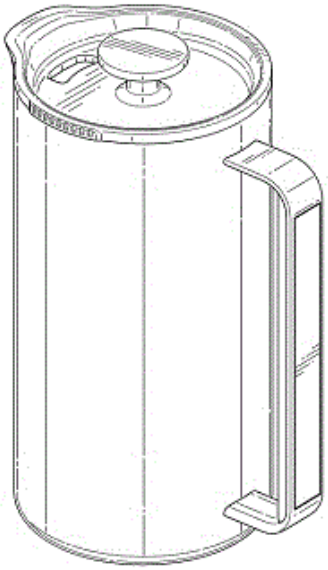
PERSPECTIVE VIEW

21: A2024/00450 22: 2024-05-10 23:
43: 2025-05-19
52: Class 7. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/916,548 32: 2023-11-13
54: Container or Beverage Maker
57: The design relates to a container or beverage maker. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW

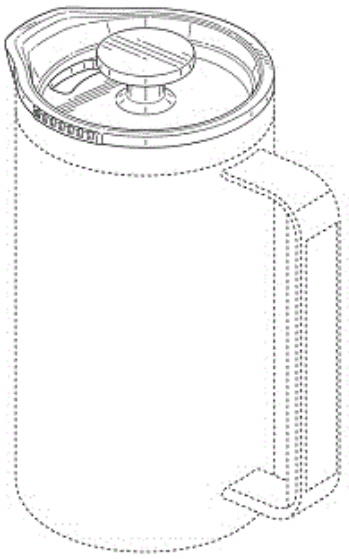
21: A2024/00451 22: 2024-05-10 23:
43: 2025-05-19
52: Class 7. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/916,548 32: 2023-11-13
54: Container or Beverage Maker
57: The design relates to a container or beverage maker. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW

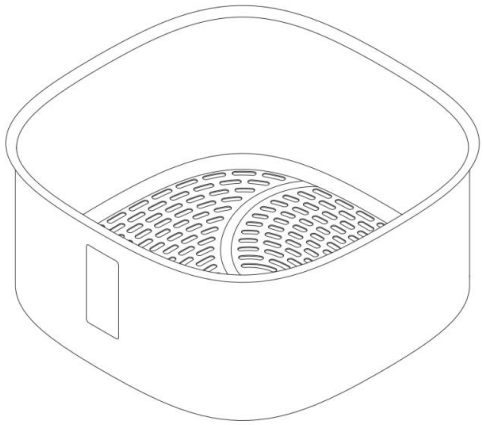
21: A2024/00452 22: 2024-05-10 23:
43: 2025-05-19
52: Class 7. 24: Part A

71: YETI COOLERS, LLC
33: US 31: 29/916,549 32: 2023-11-13
54: Container or Beverage Maker
57: The design relates to a container or beverage maker. The features of the design are those of shape and/or configuration and/or ornamentation.



PERSPECTIVE VIEW

21: A2024/00834 22: 2024-08-27 23:
43: 2025-07-09
52: Class 07 24: Part A
71: Versuni Holding B.V.
33: EU 31: 015052116-0009 32: 2024-02-28
54: BASKET FOR AIR FRYER
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 Basket for Air Fryer as shown in the accompanying representations, irrespective of the features shown in broken lines.

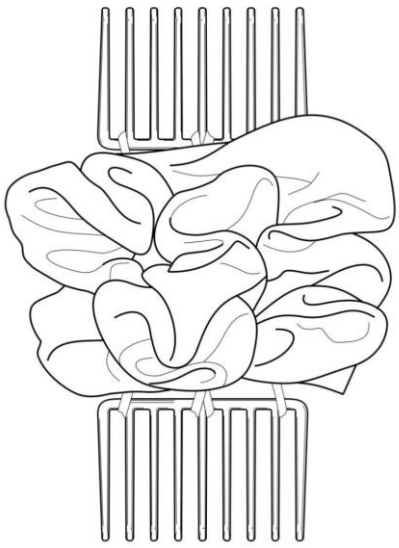


21: A2024/00959 22: 2024-09-26 23:
43: 2025-05-16
52: Class 12. 24: Part A
71: TOYOTA JIDOSHA KABUSHIKI KAISHA
33: JP 31: 2024-006577 32: 2024-03-29
54: Front Portion for an Automobile
57: The design relates to a front portion for an automobile. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

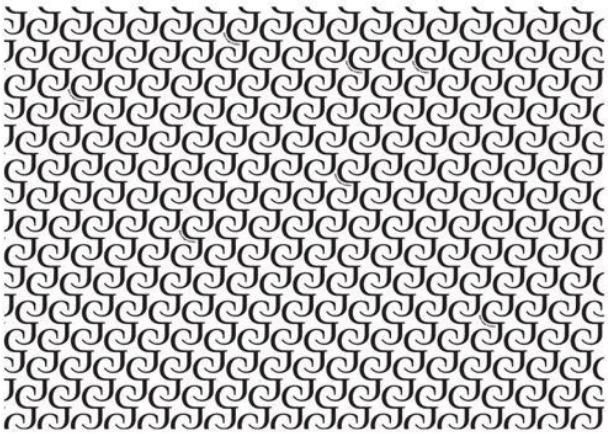
FRONT LEFT PERSPECTIVE VIEW

21: A2024/00998 22: 2024-10-02 23:
43: 2025-05-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 015057406-0001 32: 2024-04-12
54: HAND SHOWER
57: The novelty of the design resides in the shape or configuration of a hand shower substantially as shown in the accompanying representation.

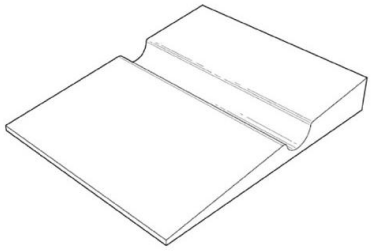
21: A2024/00999 22: 2024-10-02 23:
43: 2025-05-16
52: Class 28 24: Part A
71: GLADWIN, Thea
54: HAIR FASTENER
57: The features for which protection is claimed reside in the shape or configuration of a hair fastener which includes one or more elastic members each end of which is engaged with respective tines of a comb, substantially as shown in the accompanying representations.



21: A2024/01001 22: 2024-10-02 23:
43: 2025-05-16
52: Class 32 24: Part A
71: GERT-JOHAN COETZEE (PTY) LTD
54: PATTERN
57: The features of the design are those of pattern and/or shape and/or configuration and/or ornamentation, substantially as shown in the representation.

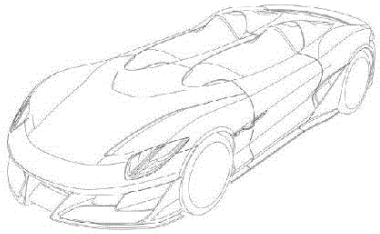


21: A2024/01004 22: 2024-10-03 23:
43: 2025-05-08
52: Class 06 24: Part A
71: STÖHR, ERICA AUGUSTE
54: CUSHION
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a CUSHION as shown in the accompanying representations.



FRONT PERSPECTIVE VIEW

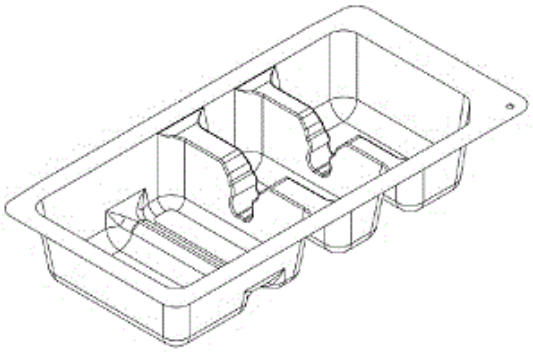
21: A2024/01006 22: 2024-10-04 23:
43: 2025-05-09
52: Class 12 24: Part A
71: BYD COMPANY LIMITED
33: CN 31: 202430205078.1 32: 2024-04-12
54: CAR
57: The representation shows a perspective view of a car in accordance with the present design showing the overall appearance thereof.



21: A2024/01014 22: 2024-10-07 23:
43: 2025-05-12
52: Class 9. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/937,650 32: 2024-04-16
54: Lid
57: The design relates to a lid. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

TOP FRONT RIGHT PERSPECTIVE VIEW

21: A2024/01026 22: 2024-10-09 23:
43: 2025-05-12
52: Class 9. 24: Part A
71: BAYER AKTIENGESELLSCHAFT
33: EM 31: 015065840-0001 32: 2024-07-09
54: Vial Packaging
57: The design relates to vial packaging. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



PERSPECTIVE VIEW

21: A2024/01027 22: 2024-10-09 23:
43: 2025-05-12
52: Class 32. 24: Part A
71: FÉDÉRATION INTERNATIONALE DE FOOTBALL ASSOCIATION (FIFA)
33: EM 31: 015071248-0001 32: 2024-09-04
54: Logo
57: The design relates to a logo. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

PLAN VIEW

21: A2024/01028 22: 2024-10-09 23:
43: 2024-04-10
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 2024301974087 32: 2024-04-10
54: AUTOMOBILES
57: The design is for an automobile in the form of a sport utility vehicle (SUV). The front of the vehicle features a slender light strip that runs horizontally across an entire front fascia. The front facia includes a wide front grille having vertical slots arranged in parallel with rectangular headlights on either side of the grille. A roof of the vehicle includes a protruding LiDAR sensor at a front thereof. Each side of the

vehicle includes a character line extending from the headlights to taillights, and door handles which are concealed. A rear fascia of the vehicle includes a boot, a tailgate and a continuous taillight design wrapping onto the sides of the vehicle.

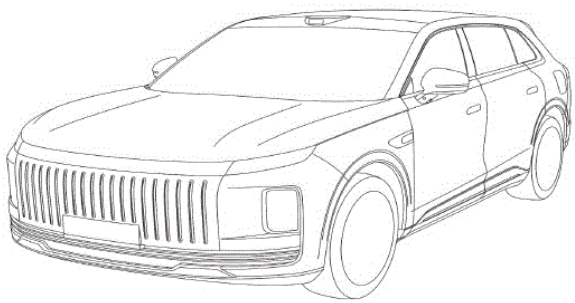


Figure 1

Three-dimensional view

21: A2024/01029 22: 2024-10-09 23:
43: 2024-04-10
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 2024301974068 32: 2024-04-10

54: AUTOMOBILES

57: The design is for an automobile in the form of a sport utility vehicle (SUV). A front fascia of the vehicle includes a grille having a pattern of honeycomb shaped holes of various sizes and headlight housings having the shape of human eyes, each housing including two rectangularly shaped light modules. Below the grille is a subtle diffuser having narrow vertical slots with circular lights on either side, each circular light having an outwardly extending straight line. Sides of the vehicle includes a character line from the headlights extending along a hood to taillights, upward sweeping character lines on each door and side skirts along the bottom of each door, and pull-up type handles on each door. A rear fascia of the vehicle includes a tailgate and connected taillights having multiple triangular light modules stacked vertically. A rear bumper features a vertical line pattern, echoing the front subtle diffuser.

Figure 6

Three-dimensional view

21: A2024/01041 22: 2024-10-10 23:
43: 2024-04-11
52: Class 7 24: Part A
71: Société des Produits Nestlé S.A.
33: CH 31: 147980 32: 2024-04-11

54: COFFEE MACHINES

57: The design is for a coffee machine with a substantially cuboid shape. A front surface of the coffee machine has two identical and prominent protrusions positioned at upper corners, each protrusion projecting forwardly and tapering inwardly to a flat oval face with bevelled edges, each protrusion having a spout underneath. Each face is tilted upwardly and has five peripherally spaced buttons. A large rectangular drip tray projects forwardly from a bottom of the front surface having two identical drip tray grates adjacent each other, each having two columns of parallel lateral slots. Two circular stands, with smaller drip trays, are connected to the machine with arms extending obliquely and inwardly. The stands have parallel lateral slots, and are positioned above the large drip tray, each below a spout. A top surface of the coffee machine has a rectangular depression with rounded corners, which is slanted downwardly from a front to a rear with parallel grooves.

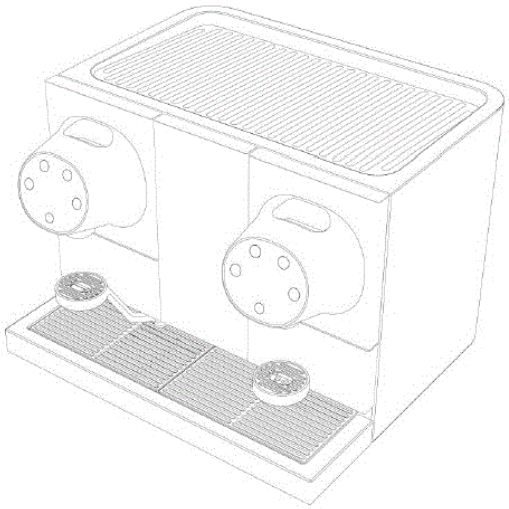


Figure 1

Three-dimensional view

21: A2024/01044 22: 2024-10-11 23:
43: 2025-05-12
52: Class 23. 24: Part A
71: MKAZI CONCEPTS (PTY) LTD.
54: A Dispenser
57: The design relates to a dispenser. The features of the design are those of shape and/or configuration.

TOP PERSPECTIVE VIEW

21: A2024/01046 22: 2024-10-11 23:
43: 2025-05-16
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 2024302044333 32: 2024-04-12
54: AUTOMOBILES
57: This design is for an automobile. At the front, the vehicle features a pair of headlights with lines that taper inward from the body sides towards the center. The vehicle's grille is polygonal in shape and houses the vehicle badge and license plate. The grille is covered in a polygonal mesh pattern. Below the grille is a trapezoidal air intake. The vehicle's side profile includes a character line that extends from the headlights along the hood to the taillights. The front doors and fenders feature accent pieces, and both the front and rear doors have character lines. At the rear, the vehicle has a trunk lid and connected taillights.

Figure 1

Three-dimensional view

21: A2024/01047 22: 2024-10-11 23:
43: 2024-04-12
52: Class 07 24: Part A
71: SMEG S.p.A.
33: HSIRID(IT) 31: DM/239612 32: 2024-04-12
54: OVENS
57: The design is for an oven. It has a rectangular, box-like body with rounded side edges. A front features a large, rectangular door extending across a bottom 3/4 of the front and a control panel extending across a top 1/4 of the front. A top has a flat panel with an elongate rectangular feature with rounded corners at a front thereof.

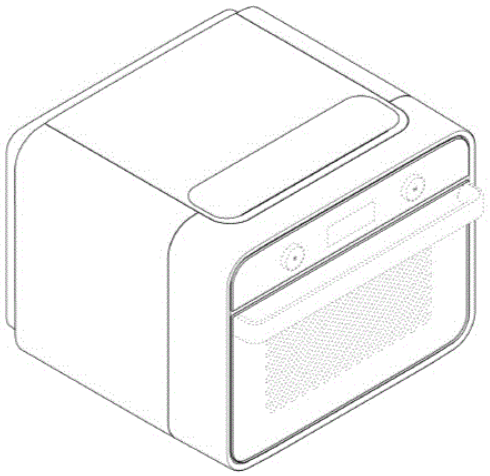


Figure 1

Three-dimensional view

21: A2024/01048 22: 2024-10-11 23:
43: 2024-04-12
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 2024302044333 32: 2024-04-12
54: AUTOMOBILES
57: This design is for an automobile. At the front, the vehicle features a pair of headlights with lines that taper inward from the body sides towards the center. The vehicle's grille is polygonal in shape and houses the vehicle badge and license plate. The grille is covered in a polygonal mesh pattern. Below the grille is a trapezoidal air intake. The vehicle's side profile includes a character line that extends from the headlights along the hood to the taillights. The front doors and fenders feature accent pieces, and both the front and rear doors have character lines. At the rear, the vehicle has a trunk lid and connected taillights.

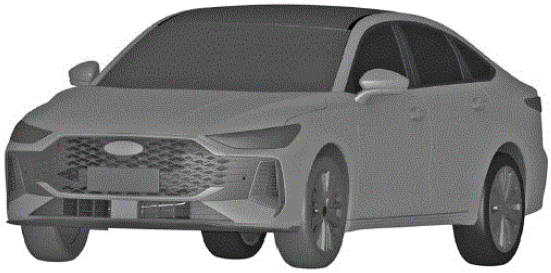


Figure 1

Three-dimensional view

21: A2024/01049 22: 2024-10-11 23:
43: 2024-04-12
52: Class 07 24: Part A
71: SMEG S.p.A.
33: HSIRID(IT) 31: DM/239612 32: 2024-04-12
54: OVENS
57: The design is an oven. It has a rectangular, box-like body with rounded side edges. A front features a large, rectangular door extending across a bottom 3/4 of the front and a control panel extending across a top 1/4 of the front. A horizontal handle runs across a top of the door and two spaced apart control buttons are provided on the control panel. A top has a flat panel with an elongate rectangular feature with rounded corners at a front thereof.

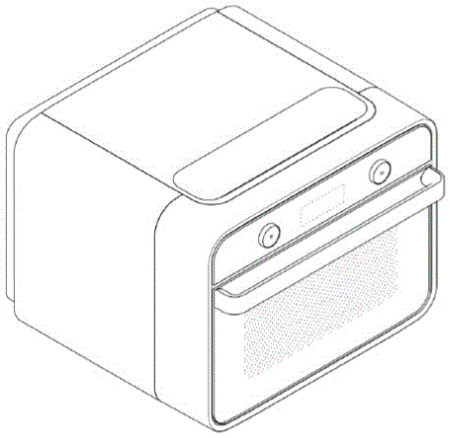
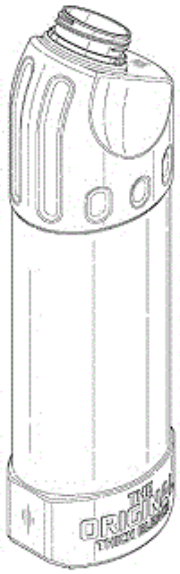


Figure 1

Three-dimensional view

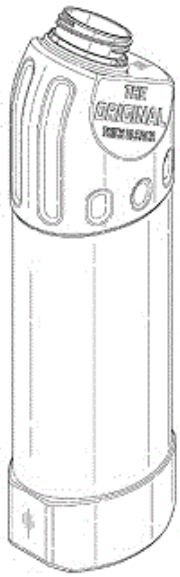
21: A2024/01060 22: 2024-10-15 23:
43: 2025-05-12
52: Class 9. 24: Part A

71: UNILEVER GLOBAL IP LIMITED
33: EM 31: 015058659-0001 32: 2024-04-25
54: Bottle
57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



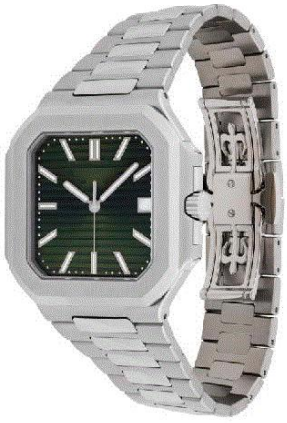
FRONT PERSPECTIVE VIEW

21: A2024/01061 22: 2024-10-15 23:
43: 2025-05-12
52: Class 9. 24: Part A
71: UNILEVER GLOBAL IP LIMITED
33: EM 31: 015058659-0001 32: 2024-04-25
54: Bottle
57: The design relates to a bottle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



FRONT PERSPECTIVE VIEW

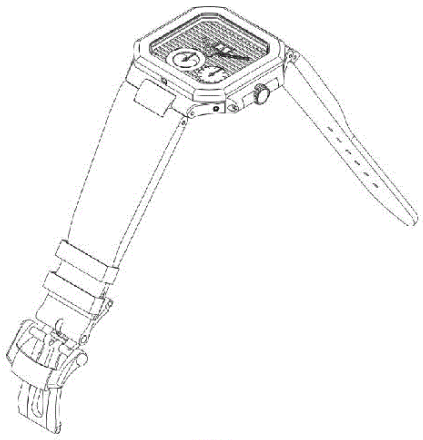
21: A2024/01062 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00456 32: 2024-09-12
54: WATCH
57: The design is applied to a watch shown in perspective front view in the representation showing the overall appearance thereof.



21: A2024/01063 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00456 32: 2024-09-12
54: WATCH
57: The design is applied to a watch shown in perspective front view in the representation showing the overall appearance thereof.

21: A2024/01064 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00456 32: 2024-09-12
54: WATCH
57: The design is applied to a watch shown in perspective view in the drawing showing the overall appearance thereof.

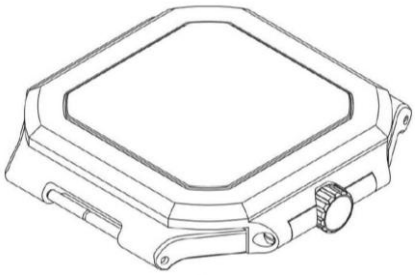
21: A2024/01065 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00456 32: 2024-09-12
54: WATCH
57: The design is applied to a watch shown in perspective view in the drawing showing the overall appearance thereof.



21: A2024/01066 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00482 32: 2024-10-08
54: WATCH
57: The design is applied to a watch shown in perspective view in the drawing showing the overall appearance thereof.

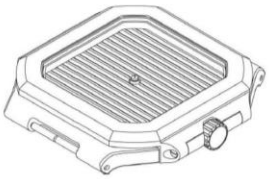
21: A2024/01067 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00482 32: 2024-10-08
54: WATCH
57: The design is applied to a watch shown in perspective view in the drawing showing the overall appearance thereof.

21: A2024/01068 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00456 32: 2024-09-12
54: WATCH CASE
57: The design is applied to a watch case shown in perspective front view in the drawing showing the overall appearance thereof.

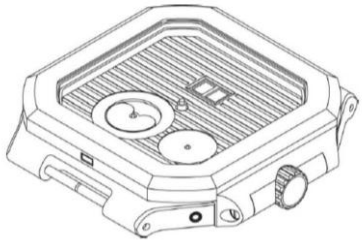


21: A2024/01069 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00456 32: 2024-09-12
54: WATCH DIAL
57: The design is applied to a watch dial shown in perspective view in the drawing showing the overall appearance thereof.

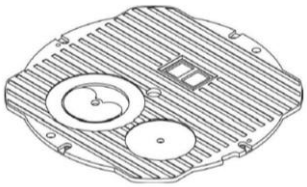
21: A2024/01070 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00456 32: 2024-09-12
54: WATCH CASE
57: The design is applied to a watch case shown in perspective view in the drawing showing the overall appearance thereof.



21: A2024/01071 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00456 32: 2024-09-12
54: WATCH CASE
57: The design is applied to a watch case shown in perspective view in the drawing showing the overall appearance thereof.

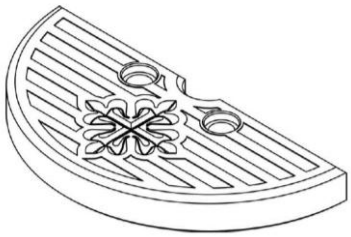


21: A2024/01072 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00456 32: 2024-09-12
54: WATCH DIAL
57: The design is applied to a watch dial shown in perspective view in the drawing showing the overall appearance thereof.



21: A2024/01073 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00456 32: 2024-09-12
54: WATCH
57: The design is applied to a watch shown in perspective front view in the representation showing the overall appearance thereof.

21: A2024/01074 22: 2024-10-16 23:
43: 2025-05-09
52: Class 10 24: Part A
71: PATEK PHILIPPE SA GENEVE
33: CH 31: 2024-00456 32: 2024-09-12
54: MOVEMENT FOR CLOCKS AND WATCHES
57: The design is applied to a movement for clocks and watches shown in perspective view in the drawing showing the overall appearance thereof.



21: A2024/01076 22: 2024-10-10 23:
43: 2024-04-11
52: Class 7 24: Part A
71: Société des Produits Nestlé S.A.
33: CH 31: 147981 32: 2024-04-11
54: BEVERAGE MACHINES
57: The design is for a beverage machine producing steam and having a substantially cuboid shape. A front surface of the beverage machine has, at its upper portion, a cylindrical protrusion projecting forwardly and upwardly to a flat circular face with bevelled edges. The face has a rectangular screen and has buttons above and below the screen. A steam wand projects forwardly from the front surface and bends obliquely downwardly to a thickened head. A rectangular drip tray projects forwardly from a bottom of the front surface having a drip tray grate with parallel lateral slots. A top surface of the beverage machine has a square depression with rounded corners, which is slanted downwardly from a front to a rear with parallel grooves. A rear surface of the beverage machine includes a container. Each side surface of the beverage machine includes five vents at upper positions.

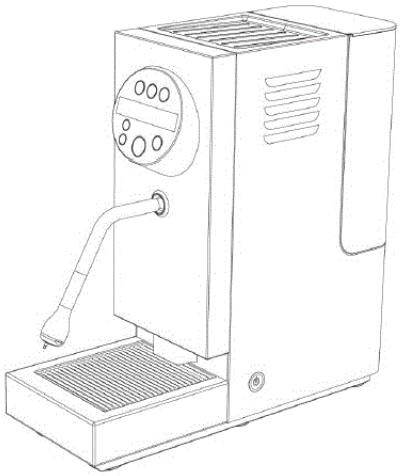


Figure 1

Three-dimensional view

21: A2024/01077 22: 2024-10-10 23:
43: 2024-04-11
52: Class 07 24: Part A
71: Société des Produits Nestlé S.A
33: CH 31: 147982 32: 2024-04-11
54: COFFEE MACHINES
57: The design is for a coffee machine with a substantially cuboid shape. A front surface of the coffee machine has a prominent protrusion positioned centrally at an upper portion which tapers inwardly to a flat oval face with bevelled edges, and which has a spout at the bottom. The face is tilted upwardly and has five peripherally spaced buttons. A large rectangular drip tray with rounded corners projects forwardly from a bottom of the front surface having a drip tray grate with parallel lateral slots and with a stadium-shaped hole centrally. A floating rectangular stand, with a smaller drip tray, with rounded corners is connected to the front surface between the large drip tray and the spout. The stand has parallel lateral slots with a circular hole centrally. A container is attached to a rear surface of the coffee machine.

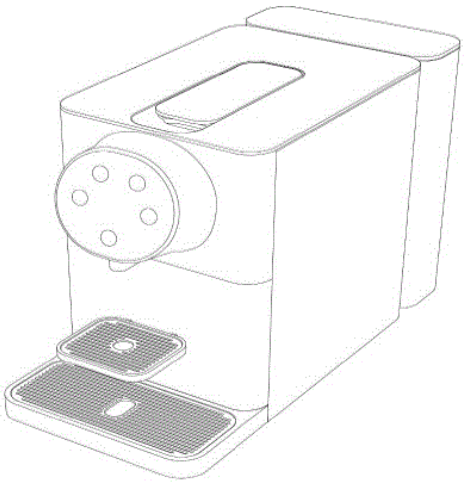


Figure 1

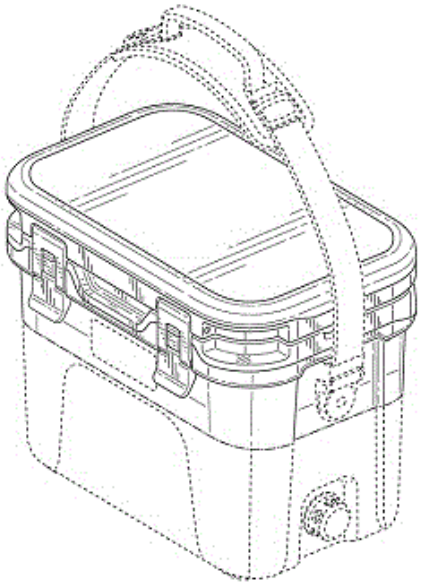
Three-dimensional view

21: A2024/01079 22: 2024-10-16 23: 2024/09/28
43: 2025-05-08
52: Class 05 24: Part A
71: M and Co Studio
54: SURFACE PATTERN
57: The design is applied to a textile. The features of the design for which protection is claimed are those of the pattern and/or ornamentation of the textile, substantially as illustrated in the accompanying representation.

21: A2024/01081 22: 2024-10-17 23:
43: 2025-05-12
52: Class 7. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/939,741 32: 2024-04-29
54: Insulating Container
57: The design relates to an insulating container. The features of the design are those of shape and/or configuration and/or ornamentation.

FRONT TOP LEFT PERSPECTIVE VIEW

21: A2024/01082 22: 2024-10-17 23:
43: 2025-05-12
52: Class 7. 24: Part A
71: YETI COOLERS, LLC
33: US 31: 29/939,741 32: 2024-04-29
54: Insulating Container
57: The design relates to an insulating container. The features of the design are those of shape and/or configuration and/or ornamentation.



TOP FRONT LEFT PERSPECTIVE VIEW

21: A2024/01083 22: 2024-10-17 23:
43: 2025-05-12
52: Class 7. 24: Part A

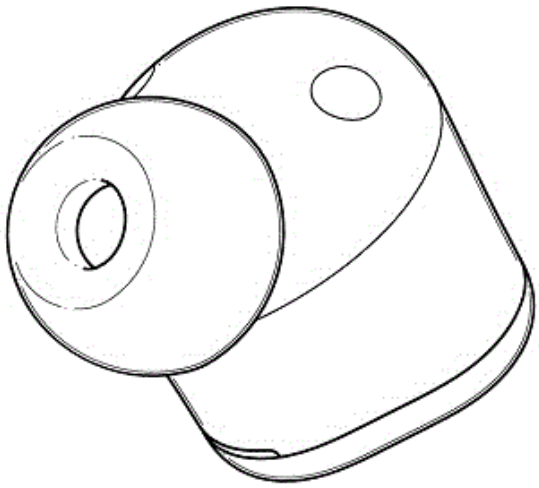
71: YETI COOLERS, LLC
33: US 31: 29/939,741 32: 2024-04-29
54: Insulating Container
57: The design relates to an insulating container. The features of the design are those of shape and/or configuration and/or ornamentation.

TOP FRONT LEFT PERSPECTIVE VIEW

21: A2024/01084 22: 2024-10-17 23:
43: 2025-05-12
52: Class 3. 24: Part A
71: APPLE INC.
33: US 31: 29/938,416 32: 2024-04-19
54: Case
57: The design relates to a case. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

TOP PERSPECTIVE VIEW

21: A2024/01085 22: 2024-10-17 23:
43: 2025-05-12
52: Class 14. 24: Part A
71: APPLE INC.
33: US 31: 29/938,414 32: 2024-04-19
54: Set of Earphones
57: The design relates to a set of earphones. The features of the design are those of shape and/or configuration and/or ornamentation.

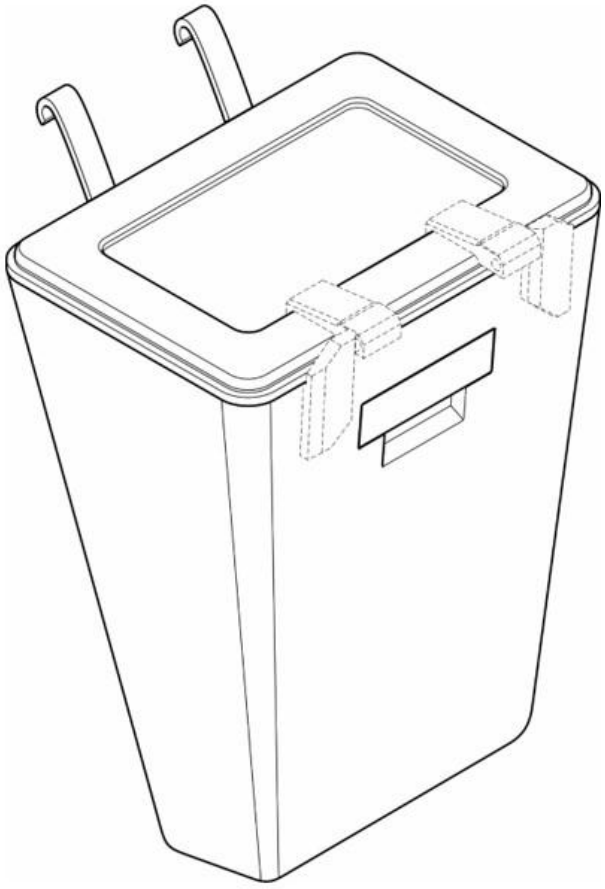


TOP PERSPECTIVE VIEW FIRST EARPHONE

21: A2024/01088 22: 2024-10-18 23:
43: 2025-05-16
52: Class 07 24: Part A
71: WILLIE TOMMY HESS

54: INSULATED CONTAINER FOR A SHOPPING CART

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 an insulated container, configured to be receivable on a shopping cart, substantially as illustrated in Figures 1 to 6 of the accompanying representations.



21: A2024/01090 22: 2024-10-18 23:
43: 2025-05-12
52: Class 10. 24: Part A
71: MONTRES TUDOR SA
33: CH 31: 2024-00221 32: 2024-04-25

54: Watch Dial and Bezel

57: The design relates to a watch dial and bezel. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

FRONT VIEW

21: A2024/01097 22: 2024-10-23 23:
43: 2024-04-24
52: Class 15 24: Part A
71: Husqvarna AB
33: US 31: 29/939,033 32: 2024-04-24

54: IRRIGATION CONTROLLERS

57: The design is for an irrigation controller. The irrigation controller has a front face having an upper horizontal part and a lower horizontal part when viewed from the front view as shown in the accompanying representations. The lower horizontal part includes three hexagonal prism shaped buttons provided substantially at the centre of the front face. A first of the three hexagonal prism shaped buttons is provided at the top, the second immediately at the bottom of the first button, and the third is on the side of the first and second buttons. A circular cylindrical knob is provided also at the centre of the lower horizontal part and spaced horizontally away from the three hexagonal buttons.

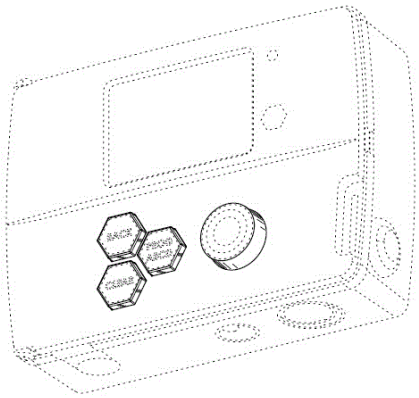


Figure 2

Three-dimensional view

21: A2024/01099 22: 2024-10-23 23:
43: 2024-04-24
52: Class 12 24: Part A
71: Automobili Lamborghini S.p.A.
33: EM(IT) 31: 015058592-0001 32: 2024-04-24
54: VEHICLES
57: The design is for a vehicle/scale model vehicle of a 'Sport Utility Vehicle'. The front is characterized by its dynamic 'V-shaped plan-view and bonnet featuring two strong longitudinal power domes. Front and rear ends of the vehicle have omega shaped bumpers. The vehicle's front lighting system features a 'C-shaped' DRL, mimicking the bull's horns, while at the rear tail-lighs have an horizontal "Y" signature shape, as well as a side-to-side bezel featuring hexagonal elements which can also be found all around the car. The wheel arches have fluent and dynamic lines. Body-side includes a high sharp tornado-line, with precise and tense surfaces. The side triangular outlet behind the front-wheel is key visual component which proudly features the Italian flag. The greenhouse is compact, with a strong profile characterizing descent line, and seen from front and rear-views diagonal side-windows.

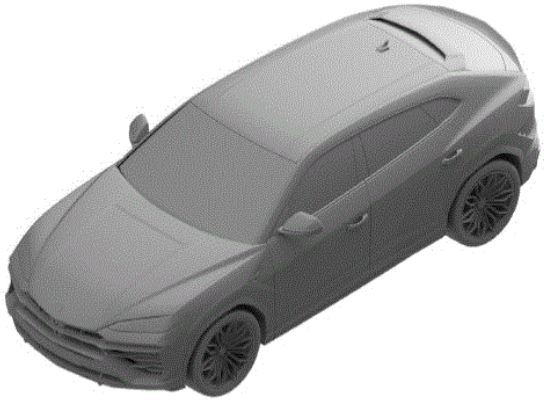


Figure 1

Three-dimensional view

21: A2024/01100 22: 2024-10-23 23:
43: 2024-04-24
52: Class 23 24: Part A
71: Husqvarna AB
33: US 31: 29/939,033 32: 2024-04-24
54: IRRIGATION CONTROLLERS
57: The design is for an irrigation controller. The irrigation controller has a front face having an upper horizontal part and a lower horizontal part when viewed from the front view as shown in the accompanying representations. The lower horizontal part includes three hexagonal prism shaped buttons provided substantially at the centre of the front face. A first of the three hexagonal prism shaped buttons is provided at the top, the second immediately at the bottom of the first button, and the third is on the side of the first and second buttons. A circular cylindrical knob is provided also at the centre of the lower horizontal part and spaced horizontally away from the three hexagonal buttons.

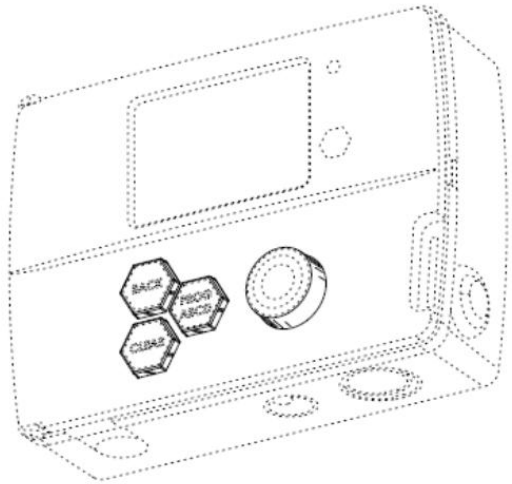


Figure 2

Three-dimensional view

21: A2024/01101 22: 2024-10-23 23:
43: 2024-04-24
52: Class 23 24: Part A
71: Husqvarna AB
33: US 31: 29/939,041 32: 2024-04-24
54: IRRIGATION CONTROLLERS
57: The design is for an irrigation controller. The irrigation controller has a lid portion that is fitted about an upper edge of a base portion. The base portion has a substantially rectangular base having rounded corners, a pair of opposed long sidewalls and a pair of opposed short sidewalls extending peripherally from the base. A centrally located rectangular opening is defined between an edge of the base and one of the long sidewalls. A lip protrudes from an edge of one of the short sidewalls. The lid portion has a substantially rectangular front face having rounded corners, and sidewalls extending peripherally from the front face. The front face has an elongate, central partition line which partitions the front face into lower and upper parts. The upper part has a centrally located partition line which is transverse to the elongate partition line and separates the upper part of the front face into two equal square panels.

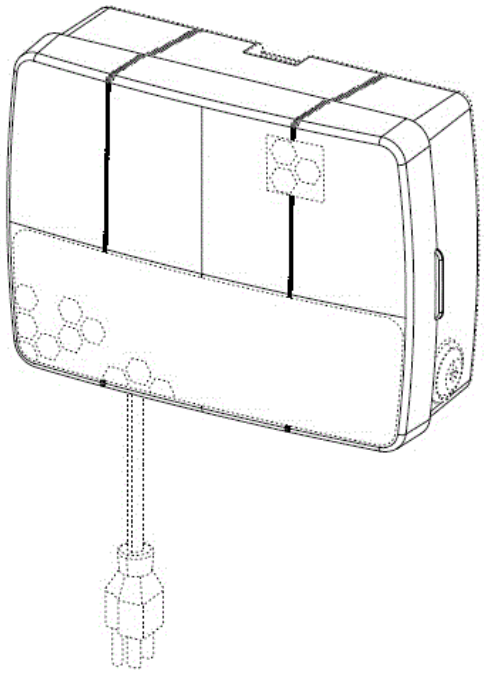


Figure 1
Three-dimensional view

21: A2024/01102 22: 2024-10-23 23:
43: 2024-04-24
52: Class 21 24: Part A
71: Automobili Lamborghini S.p.A.
33: EM(IT) 31: 015058592-0001 32: 2024-04-24
54: MODEL VEHICLES
57: The design is for a vehicle/scale model vehicle of a 'Sport Utility Vehicle'. The front is characterized by its dynamic 'V-shaped plan-view and bonnet featuring two strong longitudinal power domes. Front and rear ends of the vehicle have omega shaped bumpers. The vehicle's front lighting system features a 'C-shaped' DRL, mimicking the bull's horns, while at the rear tail-lighs have an horizontal "Y" signature shape, as well as a side-to-side bezel featuring hexagonal elements which can also be found all around the car. The wheel arches have fluent and dynamic lines. Body-side includes a high sharp tornado-line, with precise and tense surfaces. The side triangular outlet behind the front-wheel is key visual component which proudly features the Italian flag. The greenhouse is compact, with a strong profile characterizing descent line, and seen from front and rear-views diagonal side-windows.

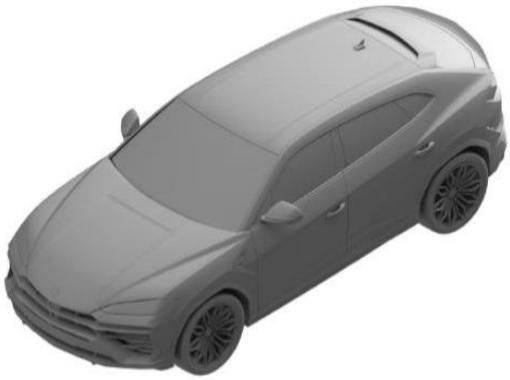


Figure 1

Three-dimensional view

21: A2024/01105 22: 2024-10-23 23:
43: 2025-05-12
52: Class 12. 24: Part A
71: HONDA MOTOR CO., LTD.
33: JP 31: 2024-008554 32: 2024-04-25
54: Motorcycle
57: The design relates to a motorcycle. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

FRONT AND RIGHT SIDE PERSPECTIVE VIEW

21: A2024/01109 22: 2024-10-25 23:
43: 2024-04-26
52: Class 12 24: Part A
71: Chery Automobile Co., Ltd.
33: CN 31: 2024302440693 32: 2024-04-26
54: AUTOMOBILES
57: This design is for an automobile. The front of the vehicle is equipped with a pair of headlights, which feature a compact and slender design. They seamlessly blend with the curvature of the hood. The vehicle's grille differs from traditional designs. It's flat and elongated in the middle, housing a camera and multiple vertically aligned vents. The grille extends outward on both sides, gradually widening into a triangular shape. This design also makes the bumper, where the license plate is mounted, resemble a bridge. The side profile reveals a fastback design. The taillights extend onto the vehicle's side, echoing the shape of the headlights. The rear of the vehicle features a trunk lid and a continuous taillight design.

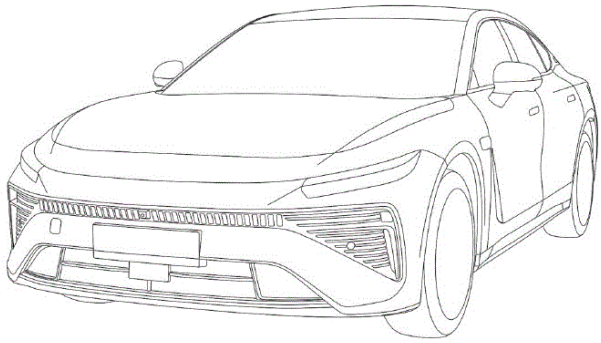


Figure 6

Three-dimensional view

21: A2024/01114 22: 2024-10-28 23:
43: 2024-10-28
52: Class 09 24: Part A
71: vVardis AG
54: PACKAGING
57: The design is for packaging. The packaging has a planar base having a rectangular shape with rounded corners. A front of the packaging has an elevated “V” centrally which is raised from the base, the “V” having flat side and front surfaces with rounded edges and corners. The front of the packaging further has an equally elevated hexagonal prism between extremities of legs of the “V”. The prism has flat side and front surfaces with rounded edges and corners.

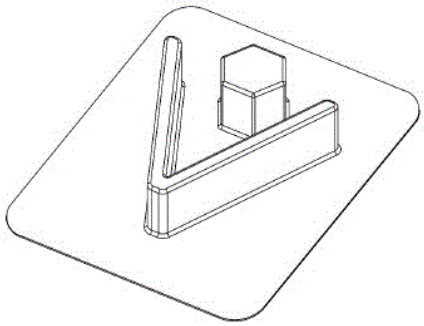
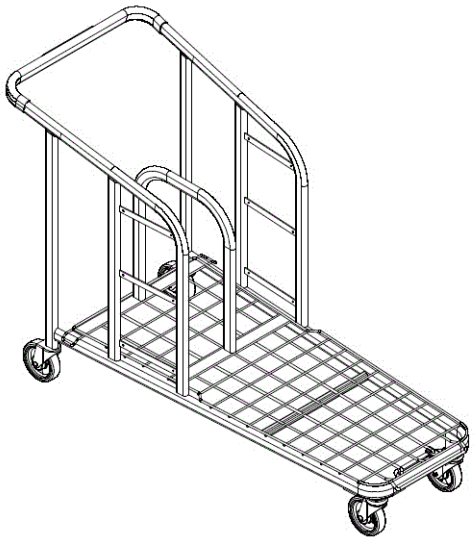


Figure 1

Three-dimensional view

21: A2024/01116 22: 2024-10-28 23:
43: 2024-10-28
52: Class 12 24: Part A
71: SUPERCART SOUTH AFRICA (PTY) LTD
54: TROLLEY
57: The design is applied to a trolley. The features of the design for which protection is claimed include the shape and/or configuration of a trolley, substantially as illustrated in the accompanying representations.



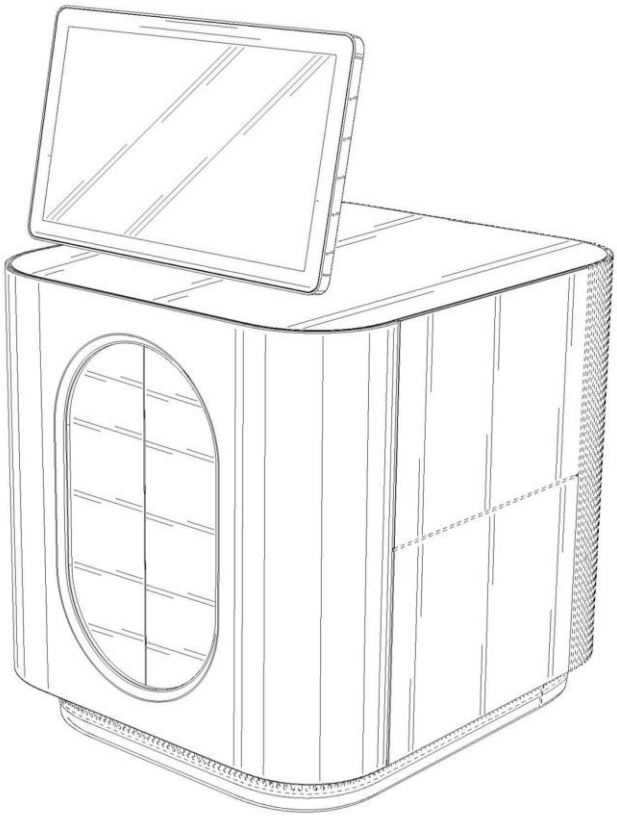
Three-dimensional view from front

21: A2024/01135 22: 2024-11-05 23:
43: 2025-06-12
52: Class 28 24: Part A
71: Thea Gladwin
54: HAIR CLIP WITH SIDE BINDING
57: The novelty of the design resides in the shape and/or configuration and/or ornamentation of a hair clip which includes a beaded side binding along a spine of each comb, substantially as shown in the accompanying representations. The shape and number of beads used for the side binding may vary. The features illustrated in dotted outline are for illustrative purposes only and do not form part of the design.

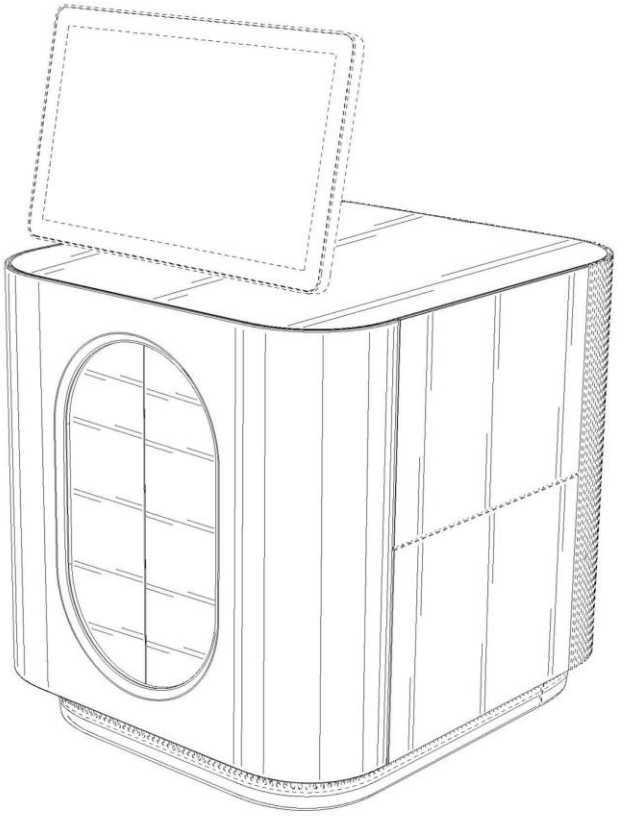
21: A2024/01160 22: 2024-11-18 23:
43: 2025-06-11
52: Class 7 24: Part A
71: Paulo Miguel Pereira LOPES, Jorge Gouveia FERREIRA, Ricardo Jose Pereira LOPES
54: A SERVING PADDLE
57: The design relates to a A Serving Paddle. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.

21: A2024/01161 22: 2024-11-18 23:
43: 2025-06-11
52: Class 21 24: Part A
71: Paulo Miguel Pereira LOPES, Jorge Gouveia FERREIRA, Ricardo Jose Pereira LOPES
54: A SERVING PADDLE
57: The design relates to a A Serving Paddle. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.

21: A2024/01174 22: 2024-11-20 23:
43: 2025-06-12
52: Class 24 24: Part A
71: ILLUMINA, INC.
33: US 31: 29/943,995 32: 2024-05-24
54: SEQUENCING INSTRUMENT
57: The design is applied to a sequencing instrument. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the sequencing instrument, 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, provided by comparatively lighter-weight solid lines, are provided to indicate the surface character but do not form part of the design and are also disclaimed.

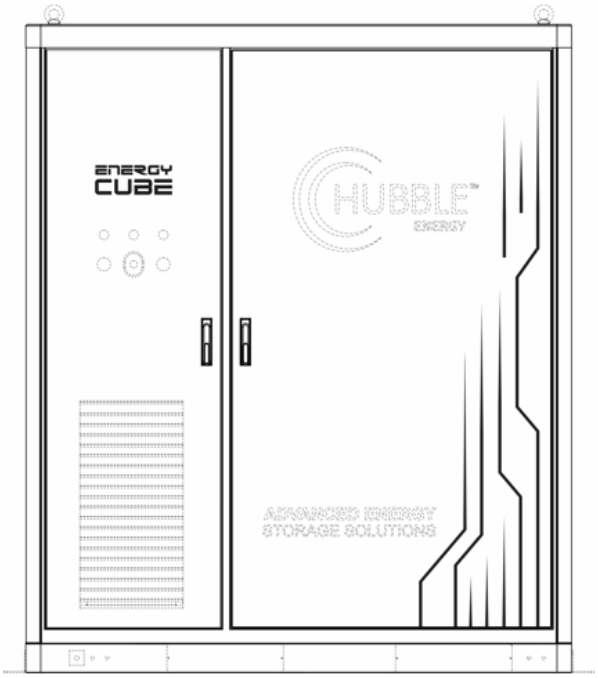


21: A2024/01175 22: 2024-11-20 23:
43: 2025-06-11
52: Class 24 24: Part A
71: ILLUMINA, INC.
33: US 31: 29/943,995 32: 2024-05-24
54: SEQUENCING INSTRUMENT
57: The design is applied to a sequencing instrument. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the sequencing instrument, 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, provided by comparatively lighter-weight solid lines, are provided to indicate the surface character but do not form part of the design and are also disclaimed.



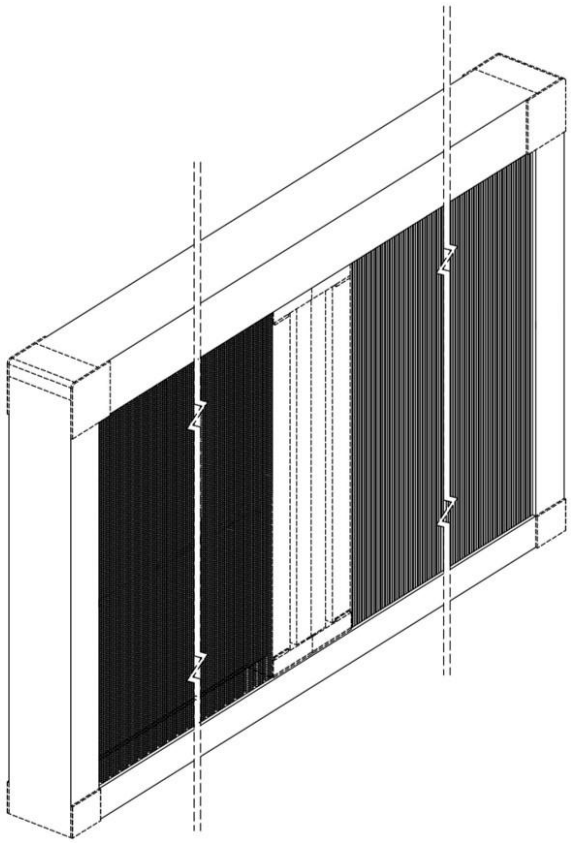
21: A2024/01177 22: 2024-11-21 23:
43: 2025-06-11
52: Class 09 24: Part A
71: POLYOAK PACKAGING (PTY) LTD
54: A BOTTLE
57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration of the bottle, substantially as illustrated in the accompanying representation.

21: A2024/01179 22: 2024-11-21 23:
43: 2025-06-11
52: Class 13 24: Part A
71: HUBBLE ENERGY (PTY) LTD
54: ENCLOSURE FOR EQUIPMENT FOR PRODUCTION, DISTRIBUTION OR TRANSFORMATION OF ELECTRICITY
57: The design is applied to an enclosure for equipment for production, distribution or transformation of electricity. 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 enclosure, substantially as illustrated in the accompanying representation.

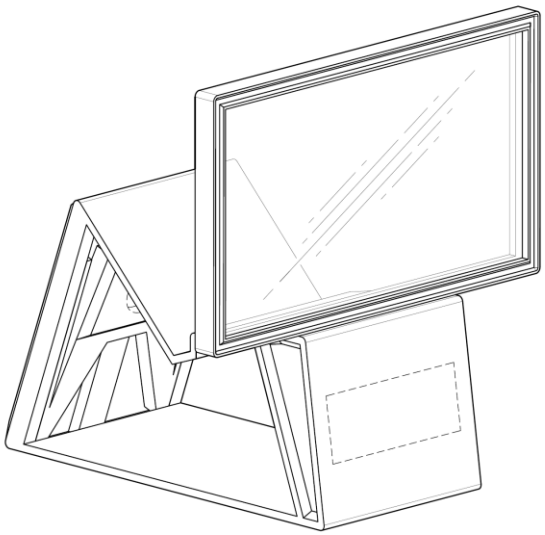


FRONT VIEW

21: A2024/01185 22: 2024-11-22 23:
43: 2025-06-12
52: Class 25 24: Part A
71: BLIND SCREEN LIMITED
33: GB 31: 6367844 32: 2024-05-23
54: BLIND SYSTEM FOR WINDOW AND/OR DOOR
57: The design is applied to a blind system for a window and/or door. 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 blind system for window and/or door, 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 indicate an indeterminate length and any portions between the break lines do not form part of the design and are also disclaimed.

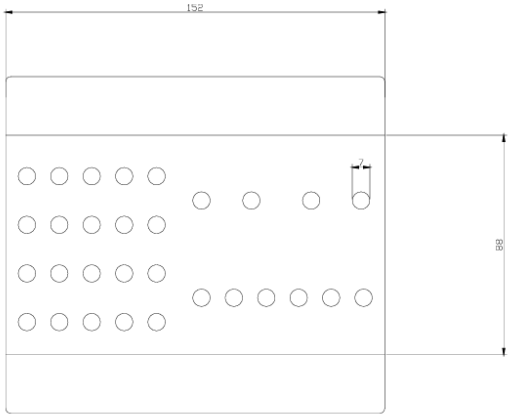


21: A2024/01186 22: 2024-11-22 23:
43: 2025-06-12
52: Class 14 24: Part A
71: LOMBARD, Quinton
54: PROJECTION APPARATUS
57: The design pertains to a projection apparatus for reflecting images (still or moving), from a mobile device placed on the apparatus, as an optical illusion to the user. The features of the design for which protection is claimed reside in the shape and/or configuration of a projection apparatus, substantially as shown in the accompanying representations.

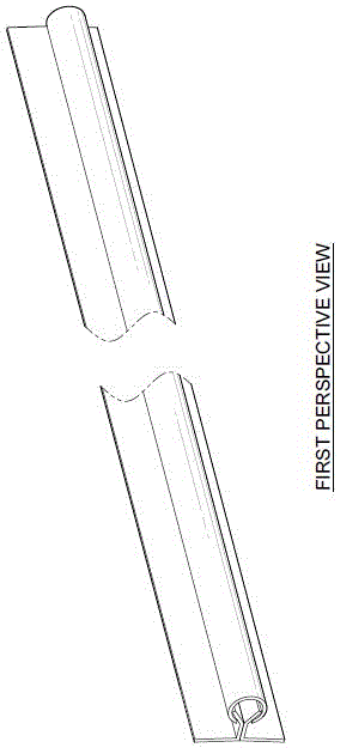


21: A2024/01196 22: 2024-11-25 23:
43: 2025-06-12
52: Class 24 24: Part A
71: Philip John de Villiers
54: STORAGE CASSETTE HOUSING FOR DENTAL BUR PROFILES
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a Storage cassette housing for dental bur profiles as shown in the accompanying representations, disclaiming any branding features shown externally.

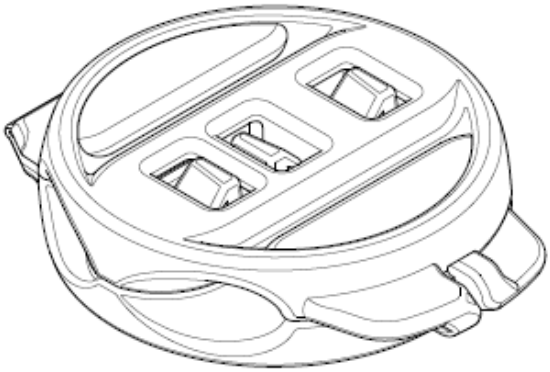
21: A2024/01198 22: 2024-11-25 23:
43: 2025-06-12
52: Class 24 24: Part A
71: Philip John de Villiers
54: INSERT LAYOUT FOR HOLDING DENTAL BUR PROFILES
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a Insert layout for holding dental bur profiles as shown in the accompanying representations.



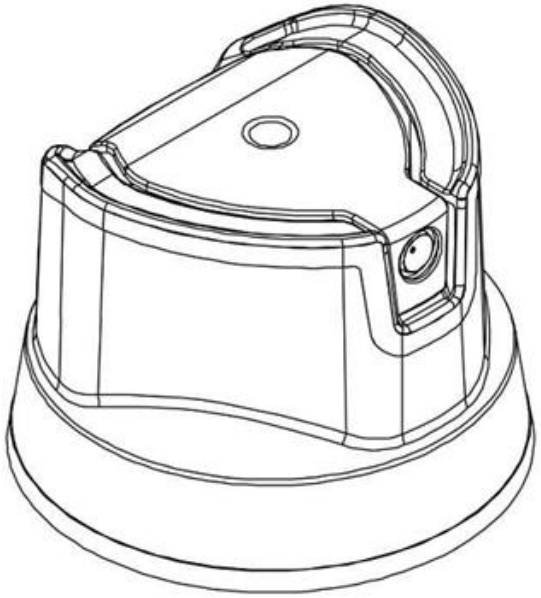
21: A2024/01220 22: 2024-11-28 23:
43: 2025-06-12
52: Class 8 24: Part A
71: UNIQUE VENTILATION & SUPPORT SYSTEMS (PTY) LTD
54: A JOINT ASSEMBLY FOR CONNECTING SPLIT PIPES
57: The features of the design for which protection is claimed include the shape and/or configuration of a joint assembly for connecting split pipes, substantially as illustrated in the accompanying representations. The length of the assembly is variable and do not form part of the design.



21: A2024/01271 22: 2024-12-09 23:
43: 2025-07-08
52: Class 24 24: Part A
71: Garapamed (Pty) Ltd
54: ACCESSORY FOR AN INTRAVENOUS INFUSION SET
57: The design relates to an accessory for an intravenous infusion set. The features of the design for which protection is claimed reside in the shape and/or configuration of the accessory, substantially as shown in the accompanying drawings.



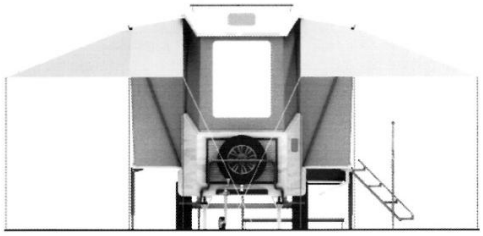
21: A2024/01278 22: 2024-12-09 23:
43: 2025-07-08
52: Class 09 24: Part A
71: CLASSIC INJECTION MOULDINGS (PTY) LTD
54: AEROSOL ACTUATOR
57: The design is for an aerosol actuator that can be used on aerosol cans without the need for an over cap. The aerosol actuator includes a spray nozzle, clips, break tabs, a hinge, a finger grip and a raised rim.



21: A2025/00585 22: 2025-05-23 23:
43: 2025-01-06
52: Class 6 24: Part A
71: TCC 4X4 MATS (PTY) LTD.
54: MATS FOR VEHICLES
57: The design relates to a set of mats for a vehicle. The mats are characterized in that each of the major mats of the set has a central portion which comprises a series of parallel ribs having a border which at least partially runs adjacent to and is spaced from an outer periphery of the respective mats. A remaining outer portion of the mat which surrounds the central portion has a leather-like finish or look and feel. The mats are further characterized in that they have raised portions which extend upward along sidewalls of the vehicle floor to protect a substantial portion of a vehicle interior from dirt and grime during use.

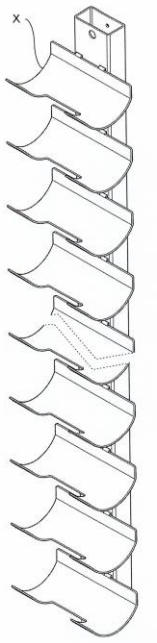
21: A2025/00599 22: 2025-05-23 23:
43: 2024-12-02
52: Class 6 24: Part A
71: TCC 4X4 MATS (PTY) LTD.
54: MATS FOR VEHICLES
57: The design relates to a set of mats for a vehicle. The mats are characterized in that each of the major mats of the set has a central portion which comprises a series of parallel ribs having a border which at least partially runs adjacent to and is spaced from an outer periphery of the respective mats. A remaining outer portion of the mat which surrounds the central portion has a leather-like finish or look and feel. The mats are further characterized in that they have raised portions which extend upward along sidewalls of the vehicle floor to protect a substantial portion of a vehicle interior from dirt and grime during use.

21: F2023/01074 22: 2023-10-04 23:
43: 2025-07-14
52: Class 12 24: Part F
71: Casper Hendrik Badenhorst
54: TRAILER
57: The features of the design for which protection is claimed are the shape, pattern and configuration of a trailer as illustrated in the accompanying drawings.

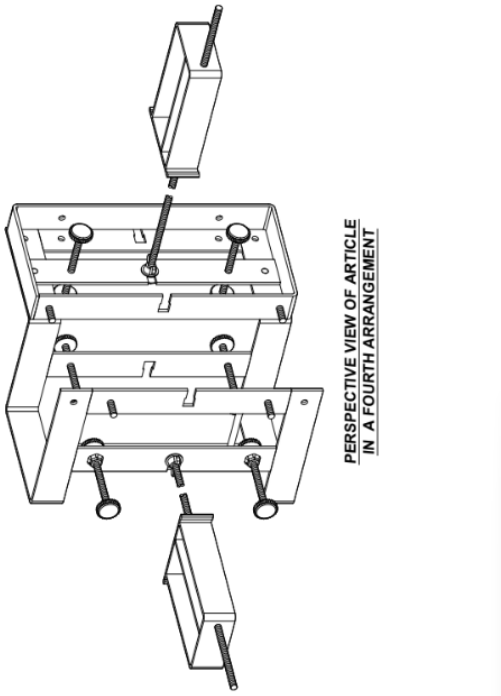


21: F2024/00345 22: 2024-04-08 23:
43: 2025-07-09
52: Class 06 24: Part F
71: COCHRANE STEEL PRODUCTS (PTY) LTD
54: BOTTLE HOLDER
57: The features for which protection is claimed reside in the shape and/or configuration of a bottle holder, which includes cup shaped members “X”, each of which is configured to support a bottle in a horizontal orientation and which is engageable with a vertical support by inserting small spigots “Y” into slots “Z” in the support, substantially as shown in the

accompanying drawing. The number of members “X” is variable. The features indicated in broken lines are for illustrative purposes only and do not form part of the design.



21: F2024/00804 22: 2024-08-12 23:
43: 2025-03-06
52: Class 25 24: Part F
71: GROBLER, TJAART JOHANNES
54: MODULAR BRACKETS
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a MODULAR BRACKETS as shown in the accompanying representations, irrespective of the features shown in broken lines.



21: F2024/00941 22: 2024-09-25 23:
43: 2024-06-01
52: Class 8 24: Part F
71: Papini Trading (Pty) Ltd
54: Curtain runners
57: This design relates to hardware for curtains, particularly to a curtain runner as shown in the accompanying representations. The curtain runner comprises a body, a dumbbell shaped roller operatively attached to the body and configured to rotate about a roller axis, and a swiveling base portion operatively attached to the body and configured to rotate or swivel about a swivel axis, wherein the swivel axis and the roller axis are transverse to each other, and wherein a head of the body extends along a head axis and is connected to a connecting member in the form of a cord which extends along an axis parallel to the head axis to connect the curtain runner to other similar curtain runners, wherein the head axis is transverse to both the swivel axis and the roller axis. The swiveling base portion comprises at least two circular apertures.

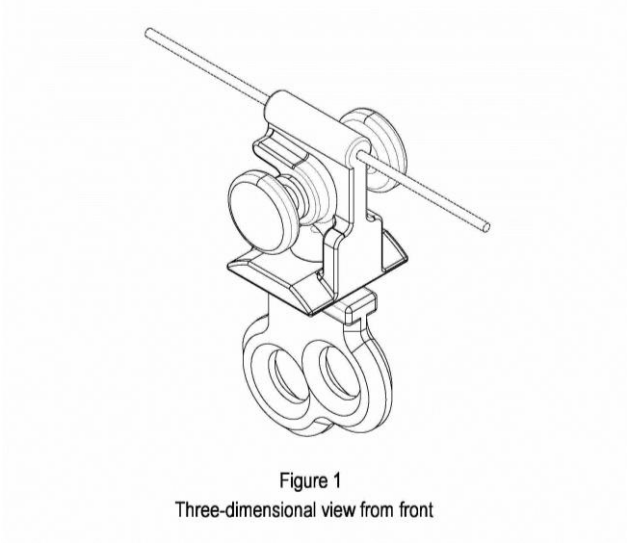
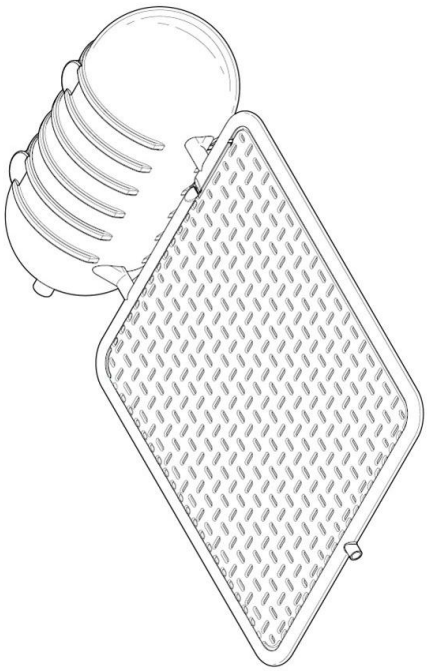
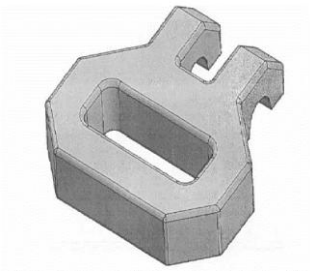


Figure 1
Three-dimensional view from front

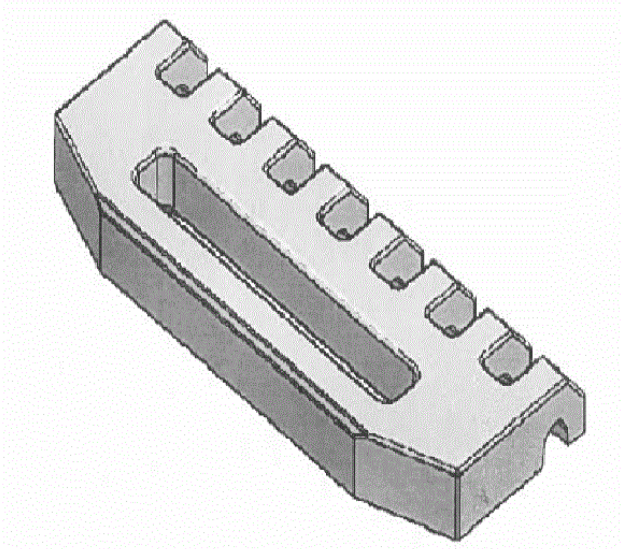
21: F2024/01002 22: 2024-10-03 23:
43: 2025-05-08
52: Class 23 24: Part F
71: ADVANCED SOLAR AND SANITATION (PTY) LTD
54: SOLAR WATER HEATER
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a SOLAR WATER HEATER as shown in the accompanying representation, irrespective of the features shown in broken lines.



21: F2024/01022 22: 2024-10-09 23:
43: 2025-05-09
52: Class 25 24: Part F
71: BOS, Tyron
54: A SECURING DEVICE
57: The design is applied to a securing device. The features of the design for which protection is claimed include the shape, pattern and/or configuration of a securing device as shown in the drawings, showing the general appearance thereof.

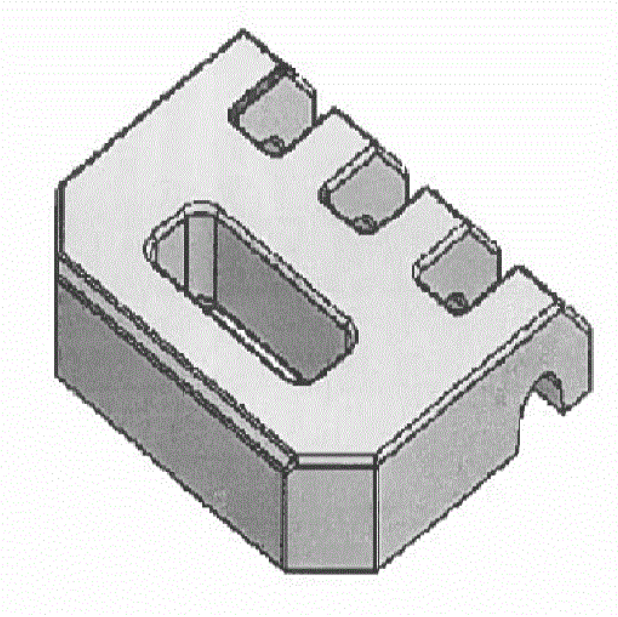


21: F2024/01023 22: 2024-10-09 23:
43: 2025-05-09
52: Class 25 24: Part F
71: BOS, Tyron
54: A SECURING DEVICE
57: The design is applied to a securing device. The features of the design for which protection is claimed include the shape, pattern and/or configuration of a securing device as shown in the drawings, showing the general appearance thereof.

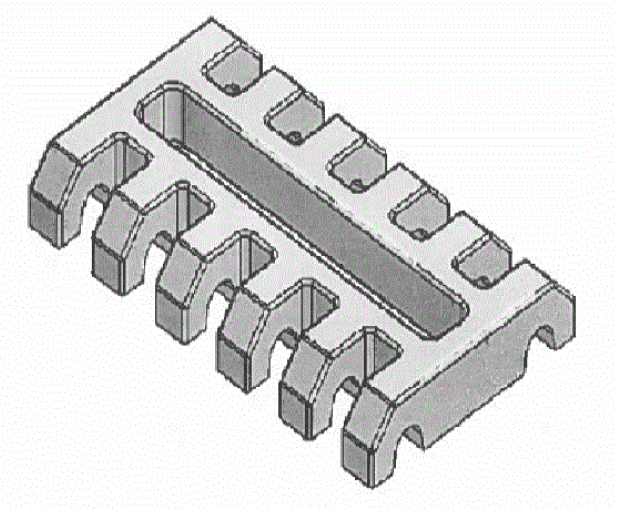


21: F2024/01024 22: 2024-10-09 23:
43: 2025-05-09
52: Class 25 24: Part F
71: BOS, Tyron
54: A SECURING DEVICE
57: The design is applied to a securing device. The features of the design for which protection is claimed include the shape, pattern and/or configuration of a

securing device as shown in the drawings, showing the general appearance thereof.

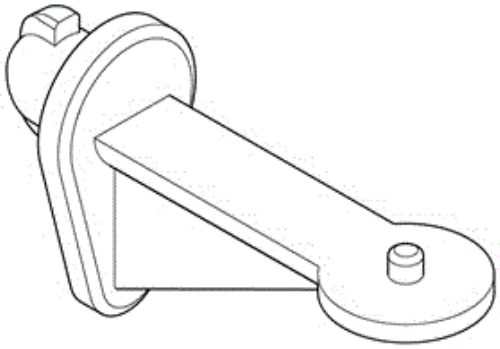


21: F2024/01025 22: 2024-10-09 23:
43: 2025-05-09
52: Class 25 24: Part F
71: BOS, Tyron
54: A SECURING DEVICE
57: The design is applied to a securing device. The features of the design for which protection is claimed include the shape, pattern and/or configuration of a securing device as shown in the drawings, showing the general appearance thereof.



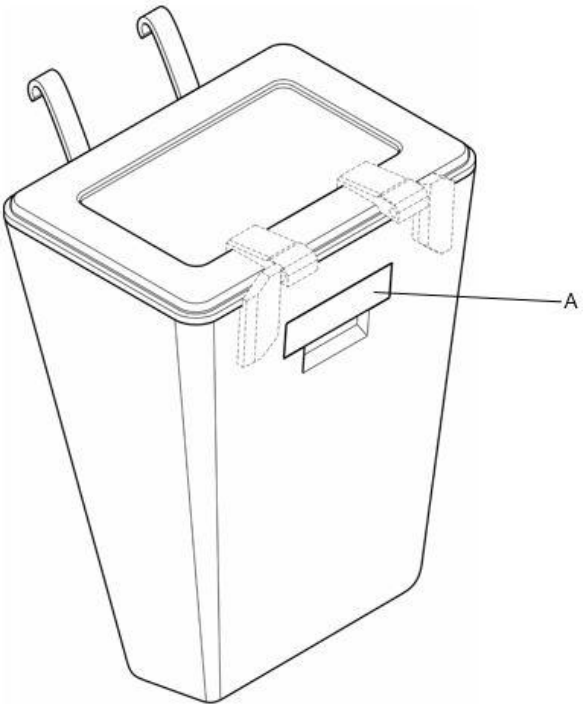
21: F2024/01078 22: 2024-10-16 23:
43: 2025-05-12
52: Class 8. 24: Part F
71: NATHAN, BRYAN RAEL

54: An Article Support
57: The design relates to an article support. The features of the design are those of shape and/or configuration.

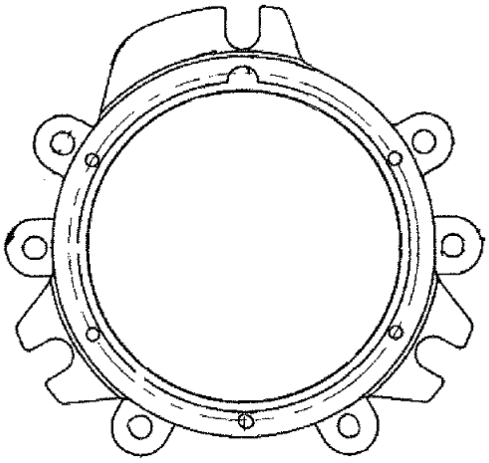


FRONT PERSPECTIVE VIEW

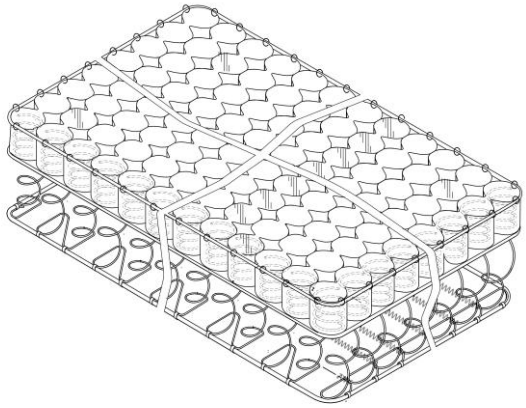
21: F2024/01089 22: 2024-10-18 23:
43: 2025-05-16
52: Class 07 24: Part F
71: WILLIE TOMMY HESS
54: INSULATED CONTAINER FOR A SHOPPING CART
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern of an insulated container, configured to be receivable on a shopping cart, substantially as illustrated in Figures 1 to 6 of the accompanying representations. The cooler box includes a grip handle, indicated by reference letter “A”, to facilitate gripping of the cooler box during stacking or unstacking of a number of shopping carts with cooler boxes. A retractable shelf, indicated by reference letter “B” is configured to support additional items.



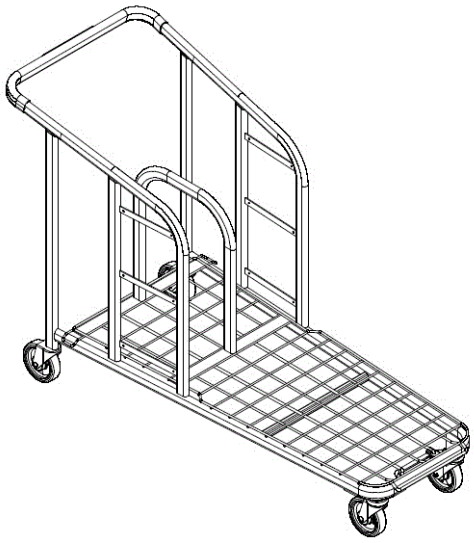
21: F2024/01095 22: 2024-10-22 23:
43: 2025-05-09
52: Class 13 24: Part F
71: MARKS, Donovan, Alexander
54: HIGH VOLTAGE COUPLER
57: The design is applied to the front operative face of a high voltage coupler. The features of the design for which protection is claimed include the shape, pattern and/or configuration of the front operative face of a high voltage coupler, as shown in the drawings, showing the general appearance thereof.



21: F2024/01108 22: 2024-10-24 23:
43: 2024-05-01
52: Class 6 24: Part F
71: Espro Capital (Pty) Ltd.
54: MATTRESSES
57: A mattress spring system has a combination of two different types of coil configurations. A major continuous coil configuration is provided as a bottom layer of the spring system and a minor pocket coil configuration is provided as a top layer of the spring system. Each layer has a peripherally extending border wire, above and below. The two different coil configurations are stacked one on top of the other and joined together to form a unified support system. The major continuous coil configuration comprises a series of parallel, longitudinally extending rows of continuous coils, each row comprising a continuous piece of spring steel commencing at one end of the mattress, helically winding in up/down fashion from the one end and terminating at an opposite end of the mattress. Adjacent rows of continuous coils are joined together by longitudinally extending helical coils at a top and bottom of the bottom layer. The minor pocket coil configuration comprises a rectilinear grid of individual coil springs suspended in individual material sheaths or pockets which are annealed together to form the grid.

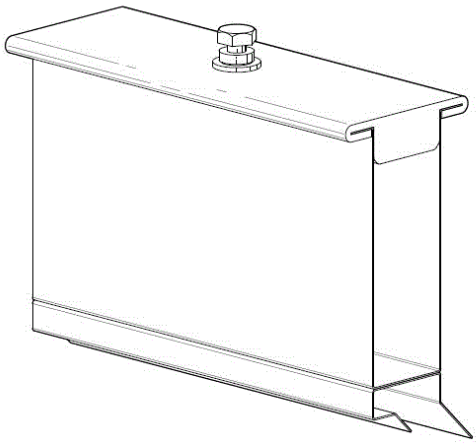


21: F2024/01117 22: 2024-10-28 23:
43: 2024-10-28
52: Class 12 24: Part F
71: SUPERCART SOUTH AFRICA (PTY) LTD
54: TROLLEY
57: The design is applied to a trolley. The features of the design for which protection is claimed include the shape and/or configuration of a trolley, substantially as illustrated in the accompanying representations.



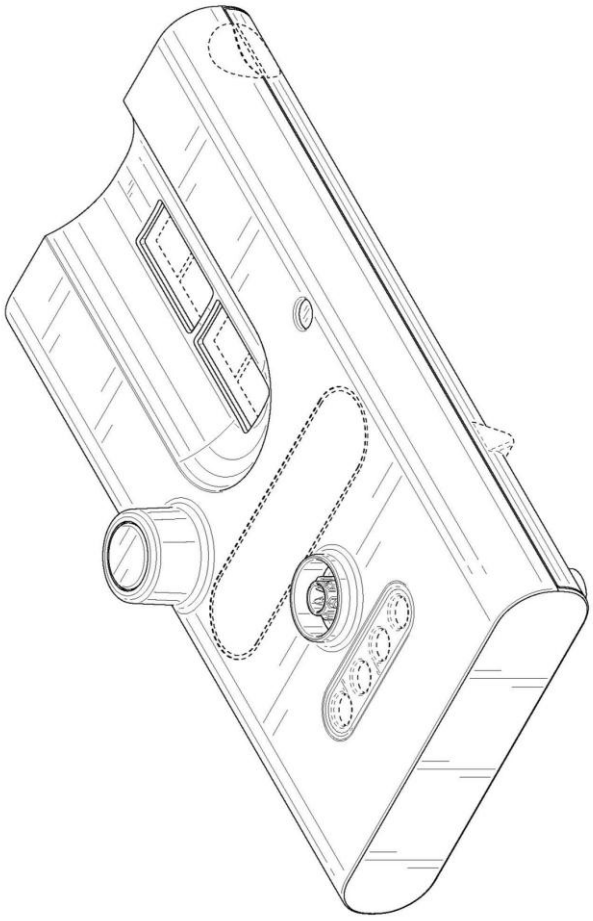
Three-dimensional view from front

21: F2024/01146 22: 2024-11-11 23:
43: 2025-06-12
52: Class 13 24: Part F
71: STRUCTURE CENTER (PTY) LTD
54: MOUNTING BRACKET
57: The design relates to a mounting bracket. The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern mounting bracket, more specifically for a mounting bracket substantially as illustrated in the accompanying representations.

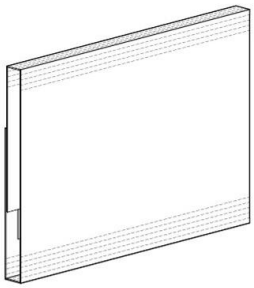


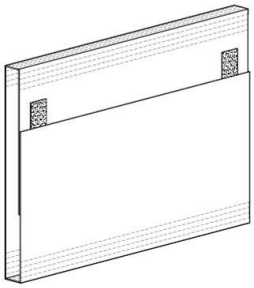
FIRST PERSPECTIVE VIEW

21: F2024/01153 22: 2024-11-14 23:
43: 2025-06-11
52: Class 24 24: Part F
71: ILLUMINA, INC.
33: US 31: 29/943,986 32: 2024-05-24
54: CARTRIDGE
57: The design is applied to a cartridge. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the cartridge, 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, provided by comparatively lighter-weight solid lines, are provided to indicate the surface character but do not form part of the design and are also disclaimed.

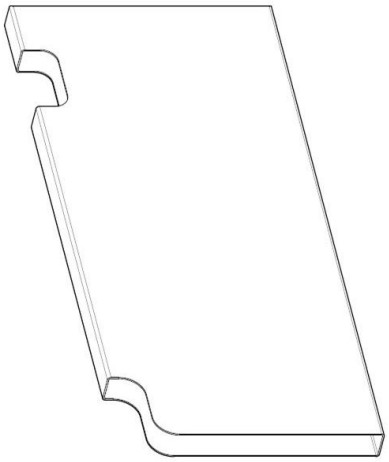


21: F2024/01158 22: 2024-11-15 23:
43: 2025-06-12
52: Class 12 24: Part F
71: COMFEYE CONCEPTS (PTY) LTD
54: SUN VISOR EXTENDER
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a as shown in the accompanying representations, irrespective of the features shown in broken lines.





21: F2024/01159 22: 2024-11-15 23:
43: 2025-06-12
52: Class 12 24: Part F
71: COMFEYE CONCEPTS (PTY) LTD
54: TELESCOPIC SUN VISOR
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of a TELESCOPIC SUN VISOR as shown in the accompanying representations, irrespective of the features shown in broken lines.

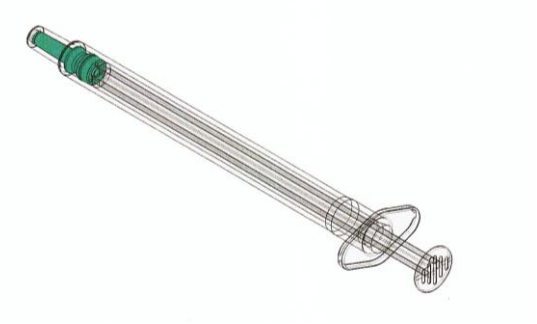


21: F2024/01178 22: 2024-11-21 23:
43: 2025-06-11
52: Class 09 24: Part F
71: POLYOAK PACKAGING (PTY) LTD

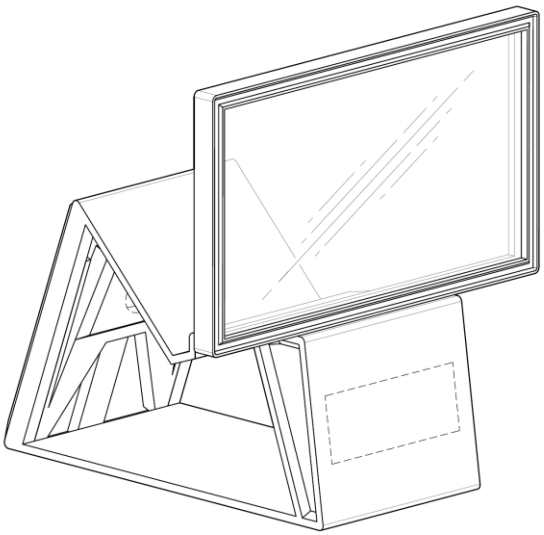
54: A BOTTLE
57: The design is applied to a bottle. The features of the design for which protection is claimed are those of the shape and/or configuration of the bottle, substantially as illustrated in the accompanying representation.

21: F2024/01183 22: 2024-11-21 23:
43: 2025-06-12
52: Class 24 24: Part F
71: B. BRAUN MELSUNGEN AG
33: EU 31: 015063849-0005 32: 2024-06-18
54: MEDICAL SYRINGE
57: The novelty of the design resides in the shape or configuration of a medical syringe substantially as shown in the accompanying representation.

21: F2024/01184 22: 2024-11-21 23:
43: 2025-06-12
52: Class 24 24: Part F
71: B. BRAUN MELSUNGEN AG
33: EU 31: 015063849-0001 32: 2024-06-18
54: MEDICAL SYRINGE
57: The novelty of the design resides in the shape or configuration of a medical syringe substantially as shown in the accompanying representation.



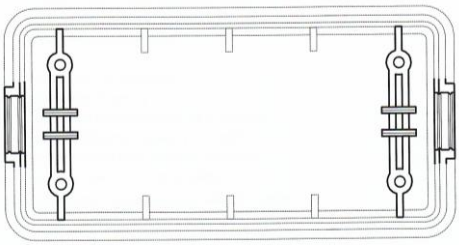
21: F2024/01187 22: 2024-11-22 23:
43: 2025-06-12
52: Class 14 24: Part F
71: LOMBARD, Quinton
54: PROJECTION APPARATUS
57: The design pertains to a projection apparatus for reflecting images (still or moving), from a mobile device placed on the apparatus, as an optical illusion to the user. The features of the design for which protection is claimed reside in the shape and/or configuration of a projection apparatus, substantially as shown in the accompanying representations.



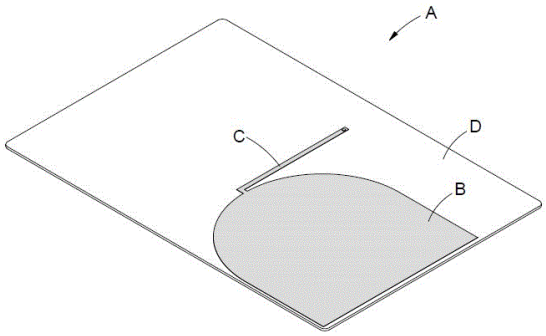
21: F2024/01197 22: 2024-11-25 23:
43: 2025-06-12
52: Class 24 24: Part F
71: Philip John de Villiers
54: STORAGE CASSETTE HOUSING FOR DENTAL BUR PROFILES
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a Storage cassette housing for dental bur profiles as shown in the accompanying representations, disclaiming any branding features shown externally.

21: F2024/01200 22: 2024-11-25 23:
43: 2025-06-12
52: Class 13 24: Part F
71: DEGENHARDT, Christian
54: CONNECTION BOX
57: The novelty of the design resides in the shape and/or configuration of an electrical connection box

which has a cable entry port defined by a corrugated U-shaped channel in a first component and a clamping formation adjacent a small channel in a second component, substantially as shown in the accompanying representation. When the components are secured together the clamping formation and the corrugated channel engage frictionally with an outer surface of a cable in the port. The structures shown in dotted outline play no part in the design and are for illustrative purposes only. The shapes of the screw pedestals flanking the corrugated channel can be varied.

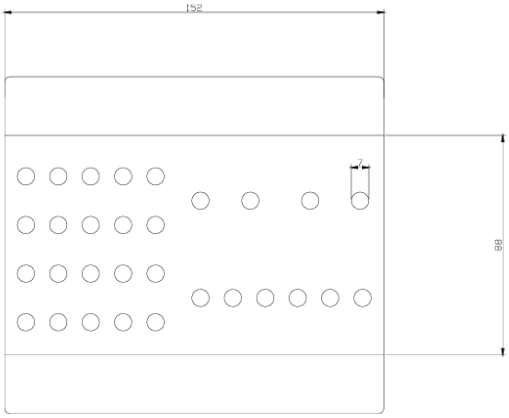


21: F2024/01201 22: 2024-11-25 23:
43: 2025-06-12
52: Class 14 24: Part F
71: POYNTING ANTENNAS (PTY) LTD
54: ANTENNA
57: The features of the design for which protection is claimed comprise the shape and/or configuration and/or pattern of an antenna A comprising radiating elements B and feedlines C on substrate D substantially as shown in the accompanying representations, irrespective of the shape of the substrate D.



FIRST PERSPECTIVE VIEW

21: F2024/01207 22: 2024-11-25 23:
43: 2025-06-12
52: Class 24 24: Part F
71: Philip John de Villiers
54: INSERT LAYOUT FOR HOLDING DENTAL BUR PROFILES
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern of an Insert layout for holding dental bur profiles as shown in the accompanying representations



21: F2024/01223 22: 2024-11-28 23:
43: 2025-06-12
52: Class 06 24: Part F
71: New-Tec Integration (Xiamen) Co., Ltd.
54: MATTRESSES
57: The design is for a mattress. The mattress has a cuboidal body defining a longitudinal and lateral axis. The body has a top layer, comprising two sub-layers with a flat top surface and rounded corners, and a base layer consisting of a rectangular grid of columns. The columns are identical and hyperboloidal, each tapering inwardly from a top and a bottom to form a waist centrally. Near its waist, each column has an attachment ring defining attachment sites pointed orthogonally. Each attachment site attaches to longitudinally and laterally adjacent attachment site of in an adjacent attachment ring. Sides of the top layer have straps projecting downwardly from between the two sub-layers of the top layer with clips at their extremities. The straps correspond in position with alternating columns and the clips attach to attachment sites at sides of the mattress.

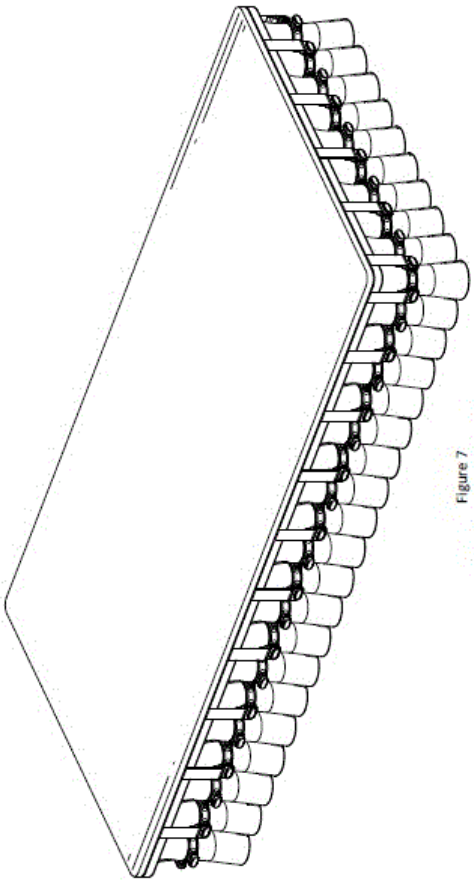


Figure 7
First three-dimensional view

21: F2024/01224 22: 2024-11-28 23:
43: 2025-06-12
52: Class 06 24: Part F
71: New-Tec Integration (Xiamen) Co., Ltd.
54: SPRING WAIST RINGS
57: The design is for a spring waist ring. The spring waist ring defines attachment sites at its 3, 6, 9, and 12 o'clock positions on an external surface. At an internal surface, the ring has rectangularly shaped cavities, and at the external surface, the ring has a smooth surface between the attachment sites with rounded top and bottom edges. Each attachment site is substantially stadium shaped having a male formation with an elevation at one side with a clip and rounded release button and a female formation defining a cavity complimentary to the male formation on the other side. The spring waist ring is designed to attach adjacent springs or columns in the body of a mattress.

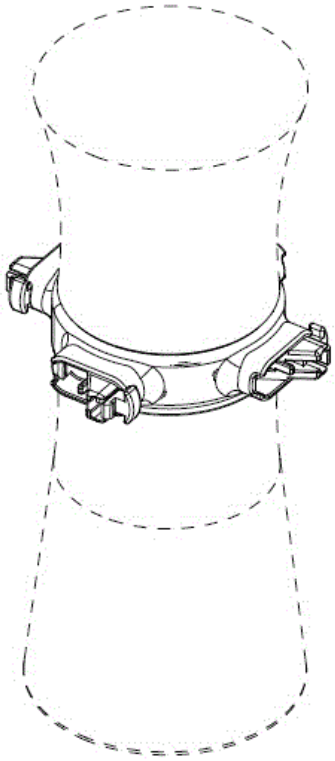
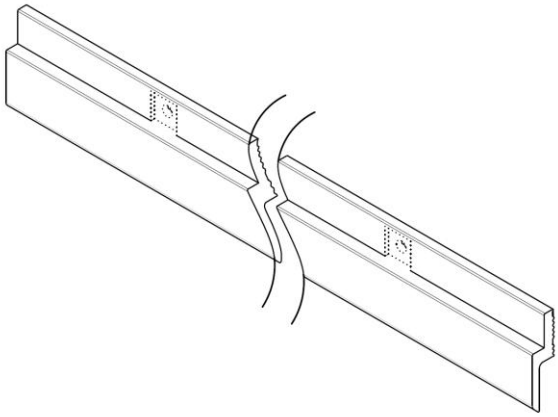
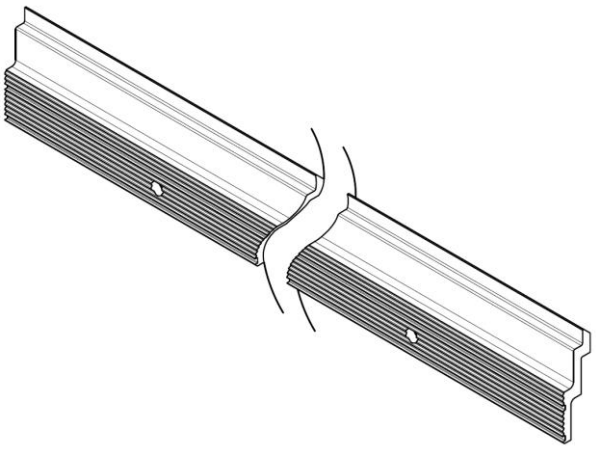


Figure 9
Third three-dimensional view
surrounding mattress spring waist

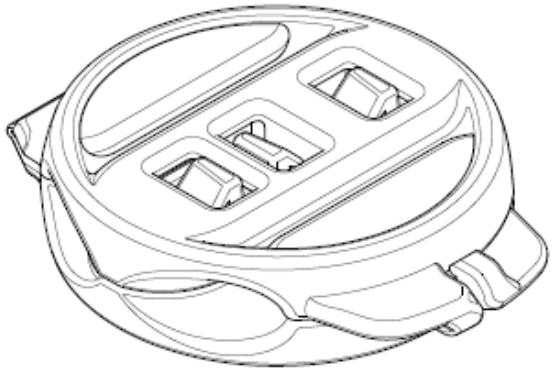
21: F2024/01266 22: 2024-12-05 23:
43: 2025-07-08
52: Class 25 24: Part F
71: ARDGARD IP HOLDINGS CO PTY LTD
33: AU 31: 202413843 32: 2024-06-10
54: A FRAME MEMBER FOR A WINDOW ASSEMBLY
57: The design is for a frame member for a window assembly that has an elongate, stepped shape and includes provision for attaching to a substrate.



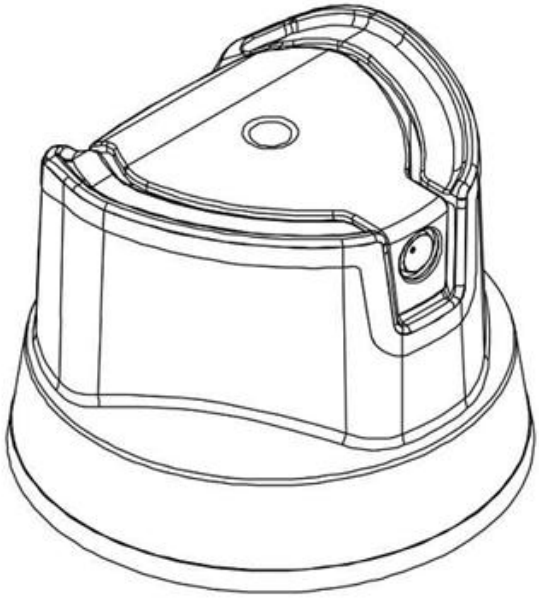
21: F2024/01267 22: 2024-12-05 23:
43: 2025-07-08
52: Class 25 24: Part F
71: ARDGARD IP HOLDINGS CO PTY LTD
33: AU 31: 202413844 32: 2024-06-10
54: A FRAME MEMBER FOR A WINDOW ASSEMBLY
57: The design is for a frame member for a window assembly that has an elongate, double stepped shape and includes provision for attaching to a substrate.



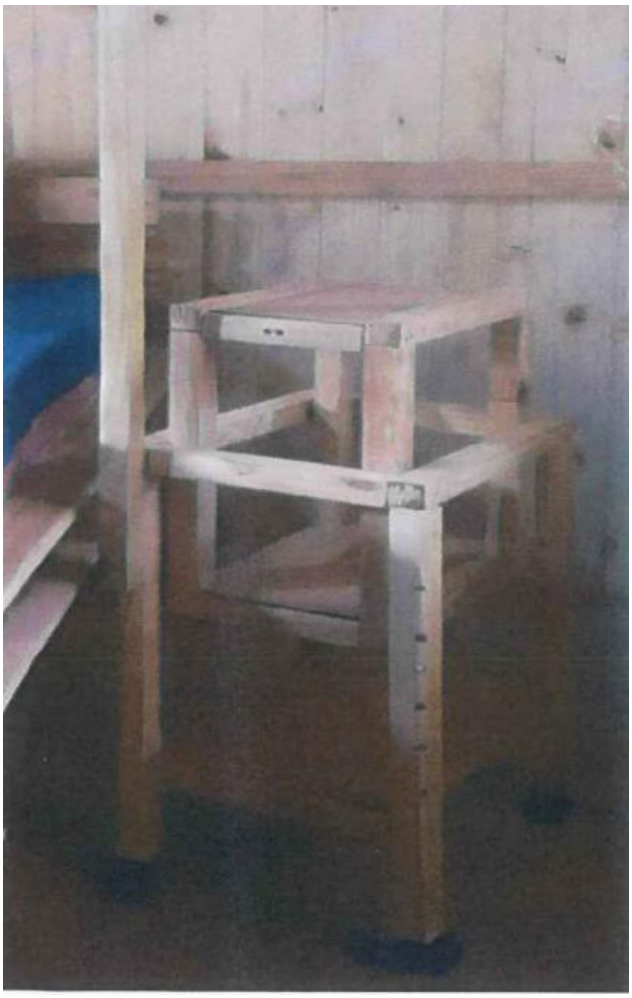
21: F2024/01272 22: 2024-12-09 23:
43: 2025-07-08
52: Class 24 24: Part F
71: Garapamed (Pty) Ltd
54: AN ACCESSORY FOR AN INTRAVENOUS INFUSION SET
57: The design relates to an accessory for an intravenous infusion set. The features of the design for which protection is claimed reside in the shape and/or configuration of the accessory, substantially as shown in the accompanying representations.



21: F2024/01273 22: 2024-12-09 23:
43: 2025-07-08
52: Class 09 24: Part F
71: CLASSIC INJECTION MOULDINGS (PTY) LTD
54: AEROSOL ACTUATOR
57: The design is for an aerosol actuator that can be used on aerosol cans without the need for an over cap. The aerosol actuator includes a spray nozzle, clips, break tabs, a hinge, a finger grip and a raised rim.



21: F2025/00167 22: 2025-02-13 23:
43: 2025-07-17
52: Class 06 24: Part F
71: Adrian de Villiers
54: LAPTOP ADJUSTABLE BEDSIDE TABLE
57: Laptop bedside table with an adjustable height from 70cm to 90cm. The Laptop table fits all sizes of laptops.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

21: 2025/00007. 22: 2025/07/15 43: 2025/07/15
24: 2025/03/18 to 2025/06/15; Galelia village, Mmaletswai village and Seshego Township
25: 2025/07/13; THE BIOSCOPE CINEMA
71: THANDO GWANGWA 1663 Thutse street, Block F, Soshanguve, 0152, South Africa
75: THANDO GWANGWA1663 Thutse street, Block F, Soshanguve, ZA, 0152, Phone :0796214226, Email: thandogwangwa92@gmail.com
76: THANDO GWANGWA
77: THANDO GWANGWA
54: **HUSTLE AD HOPE**
78: Mosima Ratsoma, Francina Monare, Mosima Modise, Shadrack Monare, Rantsho Seloba,Sebodu Seloba, Stephen Motloutsi, Victor Tshiashi, Bervely Hadebe, Lilitha Ntantiso and Kopano Molamo
26: Galelia village, Mmaletswai village and Seshego Township
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: Dive into everyday lives of individuals navigating the challenges of poverty, unemployment, unemployment and limited resources while striving for economic progress.

58: DO

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

No records available

PATENT CORRECTION NOTICES

No records available

DESIGNS CORRECTION NOTICES

The design application no: **F2025/00167** was firstly advertised in the June 2025 journal with some errors which happended during the amendment process therefore it is now advertised again in the July 2025 journal and its valid publication date is the **30/07/2025**.

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for July 2025

Number of Advertised Patents: 700

Application Number	Patent Title	Filing Date
2014/03085	GENETICALLY MODIFIED MAJOR HISTOCOMPATIBILITY COMPLEX MICE	2014/04/25
2014/04400	HIGH STRENGTH, CORROSION RESISTANT AUSTENITIC ALLOYS	2014/06/13
2017/08394	PROBIOTIC COMPOSITION AS LEATHER AUXILIARY AGENTS AND USE THEREOF	2017/12/11
2018/02297	NUTRIENT LOSS REDUCTION METHOD	2018/04/09
2018/05295	METHODS FOR ENHANCING EFFICACY OF A VACCINE BY ADMINISTERING AN IL¿4R ANTAGONIST	2018/08/10
2019/01370	FORMULATIONS FOR ORAL ADMINISTRATION OF ACTIVE AGENTS	2019/03/05
2019/01900	LYOPHILIZATION METHODS THAT PROVIDE STABLY DEHYDRATED PROTOZOANS FOR USE AS POTENT LIVE VACCINES	2019/03/27
2019/05996	COMMUNICATION DEVICE AND METHOD OF CONTROLLING A COMMUNICATION DEVICE	2019/09/11
2019/08542	PROPAGATOR CELLS AND METHODS FOR PROPAGATING PHAGE, IN PARTICULAR FOR DELIVERING CRISPR-CAS COMPONENTS VIA PROBIOTIC ORGANISMS	2019/12/20
2020/00425	SELECTIVE INHIBITORS OF NLRP3 INFLAMMASOME	2020/01/22
2020/01762	METHOD OF APPLYING AN ANTIMICROBIAL SURFACE COATING TO A SUBSTRATE	2020/03/19
2020/04980	A MODIFIED RAAV CAPSID PROTEIN FOR GENE THERAPY	2020/08/12
2020/05352	ALIGNMENT AND LOCKING MECHANISM FOR REMOVEABLE BATTERY ASSEMBLY	2020/08/27
2020/06190	RIMEGEPANT FOR CGRP RELATED DISORDERS	2020/10/06
2020/06409	METHODS FOR MITIGATING DRUG TARGET INTERFERENCE IN AN ANTI-DRUG ANTIBODY (ADA) IMMUNOASSAY	2020/10/15
2020/06485	SULFORHODAMINE PHOSPHORAMIDITE DYES	2020/10/19
2020/06721	FREEZE-DRIED FORMULATION FOR GAS-FILLED MICROVESICLES	2020/10/28
2020/07254	PROCESS FOR MAKING A PORTABLE BEVERAGE PRODUCT AND A FILLING LINE THEREFORE	2020/11/20

Application Number	Patent Title	Filing Date
2020/07976	AGRICULTURAL SAMPLING SYSTEM AND RELATED METHODS	2020/12/21
2021/00087	BISPECIFIC ANTI-BCMA X ANTI-CD3 ANTIBODIES AND USES THEREOF	2021/01/06
2021/00122	ADAPTIVE COMFORT NOISE PARAMETER DETERMINATION	2021/01/07
2021/00376	HETEROCYCLIC SULFONAMIDE DERIVATIVES AND PHARMACEUTICAL USES THEREOF	2021/01/19
2021/00718	ANTIBODY MOLECULES THAT BIND CD137 AND OX40	2021/02/02
2021/00723	FC BINDING FRAGMENTS COMPRISING A CD137 ANTIGEN-BINDING SITE	2021/02/02
2021/01224	ICE-LINED VACCINE REFRIGERATOR	2021/02/23
2021/01838	MASKED CYTOKINE POLYPEPTIDES	2021/03/18
2021/02116	SEQUENCE-GRAPH BASED TOOL FOR DETERMINING VARIATION IN SHORT TANDEM REPEAT REGIONS	2021/03/29
2021/02155	NITROXOLINE PRODRUG AND USE THEREOF	2021/03/30
2021/03153	ESTABLISHING A SHARED SESSION BETWEEN ENTITIES	2021/05/10
2021/05821	GIP/GLP1 CO-AGONIST COMPOUNDS	2021/08/16
2021/10266	SYSTEM AND METHOD FOR PROXIMITY-BASED AUTHENTICATION	2021/12/10
2022/01321	CEMENTITIOUS REAGENTS, METHODS OF MANUFACTURING AND USES THEREOF	2022/01/27
2022/01623	METHOD FOR THE COMPRESSION OF GENOME SEQUENCE DATA	2022/02/07
2022/02624	ENABLING REMOTE UNLOCK OF A LOCK	2022/03/03
2022/02742	FIBER OPTIC CONNECTORS AND FIBER OPTIC CONNECTION SYSTEMS	2022/03/07
2022/03116	SOLAR POWER MONITORING AND OPTIMISATION APPARATUS, SYSTEMS AND METHODS	2022/03/15
2022/03261	NUCLEOSIDE PRODRUGS AND USES RELATED THERETO	2022/03/18
2022/03366	VIDEO-BASED POINT CLOUD STREAMS	2022/03/22
2022/03408	SYSTEMS AND METHODS FOR PREDICTION OF PROTEIN FORMULATION PROPERTIES	2022/03/23
2022/03460	MONOCLONAL ANTIBODY AGAINST CANINE FIBROBLAST ACTIVATION PROTEIN THAT CROSS-REACTS WITH MOUSE AND HUMAN FIBROBLAST ACTIVATION PROTEIN (FAP)	2022/03/24
2022/03511	DISRUPTING TUMOR TISSUES BY TARGETING FIBROBLAST ACTIVATION PROTEIN (FAP)	2022/03/25
2022/03563	PEDIATRIC SUSPENSION FORMULATION	2022/03/28
2022/03718	IMPROVED METHODS FOR	2022/03/31

Application Number	Patent Title	Filing Date
	PRODUCTION, RECOVERY AND SECRETION OF HYDROPHOBIC COMPOUNDS IN A FERMENTATION	
2022/08956	PROGRAMMING DEVICE	2022/08/10
2022/11947	COOLING SYSTEM AND WIND-DRIVEN GENERATOR SYSTEM	2022/11/02
2022/12461	HEAP LEACHING	2022/11/15
2022/13151	METHOD FOR OPERATING AN SOFC FOR THE COMBINED PRODUCTION OF ELECTRICITY AND NITRIC OXIDE	2022/12/05
2023/00161	APPARATUS FOR ROASTING COFFEE BEANS	2023/01/03
2023/00320	DIOSMIN PREPARATION METHOD	2023/01/06
2023/00446	A SAFETY PLUG	2023/01/10
2023/00558	COMBINED CURRENT CARRIER CIRCULATION CHAMBER AND FRAME FOR USE IN UNIPOLAR ELECTROCHEMICAL DEVICES	2023/01/12
2023/00776	IN-LINE AIR BUBBLE SUSPENSION APPARATUS FOR ANGIOGRAPHY INJECTOR FLUID PATHS	2023/01/17
2023/00991	FABRIC SOFTENING COMPOSITIONS	2023/01/23
2023/01045	A METHOD OF PURIFYING RAW METHANOL	2023/01/24
2023/01105	1-METHYL-1H-PYRAZOL-3-YL DERIVATIVES FOR USE IN THE TREATMENT OF NEOVASCULAR DISEASES	2023/01/26
2023/01148	SECURE CONTAINER FOR STORING OR TRANSPORTING VALUE DOCUMENTS, AND SYSTEM FOR SECURING STORAGE AND TRANSPORTATION OF VALUE DOCUMENTS	2023/01/27
2023/01374	BALLOON COVER FOR A DELIVERY APPARATUS FOR AN EXPANDABLE PROSTHETIC HEART VALVE	2023/02/02
2023/01387	METHOD FOR MANUFACTURING AMMONIUM SULPHATE AND CALCIUM CARBONATE FROM PHOSPHOGYPSUM	2023/02/02
2023/01445	PROTEINS BINDING NKG2D, CD16 AND EGFR	2023/02/03
2023/01579	TUNNELLING SHIELD	2023/02/08
2023/01982	DICEROCARYUM ERIOCARPUM PLANT EXTRACT-METAL NANOPARTICLES FOR WATER PURIFICATION AND DISINFECTION	2023/02/17
2023/01986	DEVICE FOR COOLING A BEVERAGE COMPRISING A BUFFER MODULE	2023/02/17
2023/02290	SYSTEM AND METHOD FOR DETECTING END GUN STATUS	2023/02/22
2023/03271	USE OF N-(3-(4-(3-(DIISOBUTYLAMINO)PROPYL)PIPERAZIN-	2023/03/02

Application Number	Patent Title	Filing Date
	1-YL)PROPYL)-1H-BENZO[D]IMIDAZOL-2-AMINE SULPHATE SALTS AND SOLVATES THEREOF FOR THE TREATMENT OF MOTOR NEURON DISEASES AND NEUROMUSCULAR JUNCTION DISORDERS	
2023/03477	RECIPROCATING PRESSURE WASHER SYSTEM FOR CLEANING OPEN GEARS	2023/03/10
2023/03745	BUILDING PANEL WITH FIRST AND SECOND LOCKING SYSTEM	2023/03/22
2023/03771	USE OF A DIESEL FUEL COMPOSITION	2023/03/23
2023/03772	HIGH OCTANE UNLEADED AVIATION GASOLINE	2023/03/23
2023/03775	METHOD OF PRODUCING A RECOMBINANT PROTEIN IN A HOST CELL WHICH HAS A DISABLED RHAMNOSE METABOLISM AS WELL AS EXPRESSION VECTORS, HOST CELLS AND RECOMBINANT PROTEINS THEREOF	2023/03/23
2023/03776	A HYDROGEL MATERIAL	2023/03/23
2023/03855	3-[(1H-PYRAZOL-4-YL)OXY]PYRAZIN-2-AMINE COMPOUNDS AS HPK1 INHIBITOR AND USE THEREOF	2023/03/27
2023/03957	DEVICE FOR INJECTING FLUID INTO A BIRD	2023/03/29
2023/03966	ANTI-CD94 ANTIBODIES AND METHODS OF USE THEREOF	2023/03/29
2023/04020	VANDAR-IMPROVED HYDROELECTRIC POWER SYSTEMS	2023/03/30
2023/04057	MAGNETIC MATRICES AND METHODS OF USING THE SAME	2023/03/31
2023/04171	PROCESSES FOR THE RECOVERY OF URANIUM	2023/04/05
2023/04326	LAYERED CODING AND DATA STRUCTURE FOR COMPRESSED HIGHER-ORDER AMBISONICS SOUND OR SOUND FIELD REPRESENTATIONS	2023/04/12
2023/04368	A METHOD OF MANUFACTURING A WINDOW FRAME	2023/04/13
2023/04380	PHARMACEUTICAL COMPOSITION COMPRISING CHLOROQUINE AND USES THEREOF	2023/04/12
2023/04381	ANTIBODY-DRUG CONJUGATE AND APPLICATION THEREOF	2023/04/13
2023/07518	SLURRY TREATMENT APPARATUS	2023/07/28
2023/09214	AEROSOL GENERATING DEVICE WITH PUFF DETECTION	2023/10/02
2023/09343	MULTI-CHANNEL PROTEIN VOXELIZATION TO PREDICT VARIANT PATHOGENICITY USING DEEP CONVOLUTIONAL NEURAL NETWORKS	2023/10/06

Application Number	Patent Title	Filing Date
2023/09401	CUP ARRANGEMENT	2023/10/09
2023/09768	PHOTOCATALYTIC APPARATUS	2023/10/19
2023/09861	PROTEINS COMPRISING CD3 ANTIGEN BINDING DOMAINS AND USES THEREOF	2023/10/23
2023/10630	A SECURE ENERGY TRANSACTION SYSTEM	2023/11/16
2023/10884	IN-LOOP FILTER-BASED IMAGE ENCODING/DECODING METHOD AND APPARATUS	2023/11/24
2023/10886	IN-LOOP FILTER-BASED IMAGE ENCODING/DECODING METHOD AND APPARATUS	2023/11/24
2023/11242	SUPEROXIDE DISMUTASE 1 VARIANT AND METHOD FOR PRODUCING GLUTATHIONE OR DERIVATIVE THEREOF, USING SAME	2023/12/06
2023/11378	AN ELECTRICAL SOCKET ASSEMBLY WITH AN IMPROVED CONTACT ELEMENT	2023/12/11
2023/11688	NOVEL MDTH VARIANT AND METHOD FOR PRODUCING O-PHOSPHOSERINE, CYSTEINE, AND DERIVATE OF CYSTEINE USING SAME	2023/12/20
2023/11763	TRANSACTION SYSTEM AND METHOD	2023/12/21
2024/00392	APPARATUS FOR LOCATIONAL CONTROL OF ANIMAL VOIDING AND METHOD THEREFOR	2024/01/11
2024/00794	ANTI-CORROSION TAPE COMPRISING AT LEAST FOUR PLIES	2024/01/23
2024/00865	EXONUCLEASE-COUPLED REAL-TIME ENDONUCLEASE ACTIVITY ASSAY	2024/01/25
2024/00919	METHOD AND REACTOR SYSTEM FOR DEPOLYMERIZING A POLYMER USING A REUSABLE CATALYST	2024/01/26
2024/01134	THERMALLY-ENHANCED AEROSOL FORMING SUBSTRATE	2024/02/05
2024/01359	NOVEL AEROSOL-GENERATING SUBSTRATE COMPRISING OREGANUM SPECIES	2024/02/14
2024/01459	MONOHYDRATE AND CRYSTALLINE FORMS OF 6-[(3S,4S)-4-METHYL-1-(PYRIMIDIN-2-YLMETHYL)PYRROLIDIN-3-YL]-3-TETRAHYDROPYRAN-4-YL- 7H-IMIDAZO [1,5- A] PYRAZIN-8-ONE	2024/02/19
2024/01581	AUTONOMOUS FLIGHT SAFETY SYSTEM	2024/02/22
2024/01765	AN IMAGING SYSTEM WITH A SCANNING MIRROR	2024/02/29
2024/01766	CLIP AND CLIP INSTALLATION APPARATUS	2024/02/29
2024/01844	GLOVE, RIGID GUARD STRUCTURE FOR A GLOVE AND A METHOD OF MANUFACTURING A GLOVE	2024/03/04

Application Number	Patent Title	Filing Date
2024/01891	SYRINGE WITH MULTIFUNCTIONAL PLUNGER HANDLE	2024/03/06
2024/02071	LYSE VARIANT AND METHOD FOR PRODUCING L-ARGININE BY USING SAME	2024/03/13
2024/02080	METHOD FOR OBTAINING AN ANTIOXIDANT COMPOSITION FROM LIGNIN, LIGNIN LIQUOR OR BLACK LIQUOR	2024/03/13
2024/02152	COVERAGE SYSTEM	2024/03/18
2024/02191	KNOB AND KEY-ACTUATED DOUBLE CYLINDER LOCK	2024/03/18
2024/02194	METHOD FOR PRODUCING MOTOR FUEL FROM ETHANOL	2024/03/18
2024/02241	VENTILATION SYSTEM WITH IMPROVED VALVING	2024/03/19
2024/02242	EFFERVESCENT CLEANSING POWDER COMPOSITION	2024/03/19
2024/02244	DETERGENT COMPOSITIONS	2024/03/19
2024/02291	METHOD FOR PACKAGING AN OBJECT IN A PAPER BAG, AND PAPER BAG	2024/03/20
2024/02294	CARBONIZATION OIL-CONVERSION PROCESSING APPARATUS	2024/03/20
2024/02297	DETERGENT COMPOSITIONS	2024/03/20
2024/02298	DETERGENT COMPOSITIONS	2024/03/20
2024/02348	SEGMENTED GLASS MELTING FURNACE	2024/03/22
2024/02384	HISTORY-BASED RICE PARAMETER DERIVATIONS FOR WAVEFRONT PARALLEL PROCESSING IN VIDEO CODING	2024/03/25
2024/02387	LOW-DENSITY HIGH-PERFORMANCE GLASS FIBER COMPOSITION, GLASS FIBER AND COMPOSITE MATERIAL THEREOF	2024/03/25
2024/02434	CLEANSING COMPOSITION	2024/03/26
2024/02436	A CONDUCTIVE YARN	2024/03/26
2024/02457	MYRISTOYL DERIVATIVES OF 9-AMINO-DOXYCYCLINE FOR TARGETING CANCER STEM CELLS AND PREVENTING METASTASIS	2024/03/27
2024/02482	FOLDABLE ELECTRONIC DEVICE COMPRISING FLEXIBLE PRINTED CIRCUIT BOARD	2024/03/27
2024/02483	ASSEMBLY FOR A PORTABLE SOLAR ENERGY SYSTEM	2024/03/27
2024/02484	FOLDABLE PHOTOVOLTAIC ASSEMBLY FOR A PORTABLE SOLAR ENERGY SYSTEM	2024/03/27
2024/02485	PHOTOVOLTAIC ASSEMBLY FOR A PORTABLE SOLAR ENERGY SYSTEM	2024/03/27
2024/02486	A METHOD OF RECYCLING TEXTILE WASTE CELLULOSE	2024/03/27

Application Number	Patent Title	Filing Date
2024/02487	RANDOM ACCESS PROCEDURE TECHNIQUES	2024/03/27
2024/02501	METHOD FOR APPLYING A PRIMER COATING TO GLASS CONTAINERS	2024/03/27
2024/02547	PLANT-BASED RECOMBINANT PROTEIN EXPRESSION SYSTEM	2024/04/02
2024/02550	MOLD AND STRETCH-BLOW-MOLDED POLYESTER BOTTLE	2024/04/02
2024/02599	NOVEL ACETOHYDROXY ACID SYNTHASE VARIANT, AND METHOD FOR PRODUCING L-ISOLEUCINE USING SAME	2024/04/03
2024/02611	LAYERED CODING FOR COMPRESSED SOUND OR SOUND FIELD REPRESENTATIONS	2024/04/04
2024/02630	SYSTEMS, METHODS, AND DEVICES FOR REMOVING CONTAMINANTS FROM STORMWATER	2024/04/04
2024/02645	COMPOSITION AND METHOD FOR USE OF 1-ALKYL-5-OXOPYRROLIDINE-3-CARBOXYLIC ACIDS AS COLLECTORS FOR PHOSPHATE AND LITHIUM FLOTATION	2024/04/05
2024/02653	METHOD FOR PRODUCING HIGH-STRENGTH TINPLATE AND TINPLATE PRODUCED THEREWITH	2024/04/05
2024/02721	INTEGRATION OF HIGH FREQUENCY RECONSTRUCTION TECHNIQUES WITH REDUCED POST-PROCESSING DELAY	2024/04/09
2024/02732	MULTIEPITOPE SELF-ASSEMBLED NANOPARTICLE VACCINE PLATFORM (MSN-VACCINE PLATFORM) AND USES THERE OF	2024/04/09
2024/02736	SELECTIVE 1-HEXENE/1-OCTENE PRODUCTION WITH 1-DECENE	2024/04/09
2024/02738	CAP FOR CONTAINERS	2024/04/09
2024/02739	HYGIENE COMPOSITION FOR REDUCTION OF MALODOUR	2024/04/09
2024/02740	COMPOSITION	2024/04/09
2024/02741	CLEANSING BAR AND COMPOSITION THEREOF	2024/04/09
2024/02742	A LIQUID DISHWASH COMPOSITION	2024/04/09
2024/02743	COMPOSITIONS AND METHODS FOR ENHANCING AND EXPANDING INFECTION INDUCED IMMUNITY	2024/04/09
2024/02766	3D PRINT HEAD AND 3D PRINTING MACHINE	2024/04/10
2024/02783	HOT ROLLED AND STEEL SHEET AND A METHOD OF MANUFACTURING THEREOF	2024/04/10
2024/02784	MACROCYCLIC COMPOUNDS AS PROTEASOME SUBUNIT BETA TYPE-5 INHIBITORS	2024/04/10

Application Number	Patent Title	Filing Date
2024/02786	ORAL FORMULATION OF A PYRIDINONE DERIVATE AND USE THEREOF IN PROPHYLAXIS AND/OR TREATMENT OF INTESTINAL FIBROSIS	2024/04/10
2024/02787	MOBILE ELECTRONIC LOCK	2024/04/10
2024/02798	GOLD CONTAINING CATALYST, METHOD OF PREPARATION AND USE	2024/04/10
2024/02825	DEVICE AND SYSTEM FOR MONITORING THE CONDITIONS OF A THERMAL FLUID, AND METHOD FOR SAID MONITORING	2024/04/11
2024/02828	HANDOVER SCHEMES FOR USER AGGREGATION SCENARIO IN WIRELESS COMMUNICATIONS	2024/04/11
2024/02829	METHOD FOR DETECTING OBSTACLES	2024/04/11
2024/02849	LOW CAPITAL AND OPERATIONAL COST E-COMMERCE LOGISTICS SYSTEM	2024/04/12
2024/02873	REUSABLE PLASTICS CONTAINER	2024/04/12
2024/02874	ASSOCIATION OF A FAECALIBACTERIUM PRAUSNITZII STRAIN AND ANTI-PD-1, ANTI-PD-L1 OR ANTI-CTLA-4 ANTIBODIES FOR THE TREATMENT OF CANCER	2024/04/12
2024/02876	NUCLEOTIDES AND OLIGOSACCHARIDES FOR USE AS FOOD COMPOSITION	2024/04/12
2024/02879	METHODS FOR VECTOR-BASED TARGETING OF THE HUMAN CENTRAL THALAMUS TO GUIDE DEEP BRAIN STIMULATION AND DEVICES THEREFOR	2024/04/12
2024/02893	BLOCKING AND AUTOCLOSING ARRANGEMENT	2024/04/15
2024/02908	DATA-DRIVEN, RISK AND ACTIVITY-BASED DYNAMIC AUDIT APPLICATION AND METHOD	2024/04/15
2024/02910	RINSE-OFF PERSONAL CARE COMPOSITION	2024/04/15
2024/02936	LIQUID-DISPENSING TAP ARRANGEMENT	2024/04/16
2024/02965	REDUCING OR INHIBITING TISSUE DAMAGE USING HYALURONIDASE ADMINISTRATION	2024/04/17
2024/03115	SPACE TRUSS SUPPORT PLATFORM, SYSTEM AND METHOD FOR SUPER-DEEP SLURRY WALL	2024/04/22
2024/03152	ROTOR FOR A VERTICAL AXIS TURBINE AND VERTICAL AXIS TURBINE	2024/04/23
2024/03322	ZINC COATED MN-CONTAINING ADVANCED HIGH STRENGTH STEEL AND METHOD OF MANUFACTURING THE SAME	2024/04/29
2024/03323	METHOD FOR PRODUCING A STEEL SHEET HAVING EXCELLENT PROCESSABILITY BEFORE HOT	2024/04/29

Application Number	Patent Title	Filing Date
	FORMING, STEEL SHEET, PROCESS TO MANUFACTURE A HOT STAMPED PART AND HOT STAMPED PART	
2024/03324	HOT STAMPING DIE AND HOT STAMPING PROCESS USING A HOT STAMPING PRESS	2024/04/29
2024/03406	ATMOSPHERE FURNACE CONTROL	2024/05/02
2024/03407	HEATING METHOD OF A METALLIC PRODUCT	2024/05/02
2024/04166	A MAZE	2024/05/28
2024/04281	METHOD FOR BUTT-WELDING A STEEL PART AND ASSOCIATED STEEL PART	2024/05/31
2024/04284	METHOD FOR BUTT-WELDING A STEEL PART AND ASSOCIATED STEEL PART	2024/05/31
2024/04439	METHOD FOR MANUFACTURING AN ANNEALED STEEL SHEET	2024/06/05
2024/05030	LIP FOR EARTH MOVING MACHINE SHOVEL AND LIP MANUFACTURING METHOD	2024/06/26
2024/05046	FERROUS ALLOY POWDER FOR ADDITIVE MANUFACTURING	2024/06/27
2024/05092	FRONT STRUCTURE FOR AN AUTOMOTIVE VEHICLE	2024/06/28
2024/05525	A SYSTEM AND METHOD FOR PRESERVING DATA OBFUSCATION DURING COLLABORATION USING PRIOR OBFUSCATED DATA	2024/07/16
2024/05530	SUSTAINED RELEASE PHARMACEUTICAL COMPOSITION OF UPADACITINIB	2024/07/16
2024/05537	LPG FUEL COMPOSITIONS, ADDITIVES THEREFOR AND USES THEREOF	2024/07/16
2024/05874	BONDING COMPOSITION FOR BINDING AN ALGINATE COATING TO A VEGETARIAN OR VEGAN FOODSTUFF	2024/07/30
2024/05952	APPARATUS AND METHOD TO TRANSFORM AN AUDIO STREAM	2024/08/01
2024/06009	INTELLIGENT COMPACTION EQUIPMENT FOR TRANSITION SECTION CONSTRUCTION HAVING AN EDGE COMPACTION FUNCTION	2024/08/05
2024/06494	APPARATUS AND METHOD FOR EXHAUST GAS POLLUTION REDUCTION	2024/08/23
2024/06805	CORONAVIRUS VACCINE	2024/09/04
2024/07059	HERB PULVERIZING DEVICE FOR TRADITIONAL CHINESE MEDICINE	2024/09/13
2024/07116	IMPROVED MARKER SET FOR IDENTIFYING LIVE AND DEAD ANIMALS	2024/09/17
2024/07248	MEASUREMENT, DIAGNOSIS, TREATMENT AND MANAGEMENT OF METABOLIC SYNDROME	2024/09/23
2024/07520	PREPARATION OF PSILOCYBIN,	2024/10/03

Application Number	Patent Title	Filing Date
	DIFFERENT POLYMORPHIC FORMS, INTERMEDIATES, FORMULATIONS AND THEIR USE	
2024/07530	PAPERBOARD PROTECTIVE CORNER AND METHOD FOR MANUFACTURING THE SAME	2024/10/03
2024/07595	INTERSPINOUS IMPLANT INSERTION INSTRUMENT WITH WING ACTUATION TOOL	2024/10/07
2024/07613	APPARATUS AND METHOD FOR ACCURATE LARGE SCALE ADDITIVE MANUFACTURING	2024/10/08
2024/07649	PORTABLE HOOP LOCK	2024/10/09
2024/07775	GEAR SPEED CHANGE DEVICE, TRANSMISSION MECHANISM, AND WIND GENERATING SET	2024/10/14
2024/07829	A PERSONAL HEATING DEVICE	2024/10/16
2024/07847	FOAM CUSHIONS HAVING AN ORTHOGONAL ALTERNATING STRUCTURE	2024/10/16
2024/07889	METHOD FOR INCUBATING A POULTRY EGG ON A HATCHERY	2024/10/17
2024/08019	MULTIFUNCTIONAL OBSTETRIC BED	2024/10/23
2024/08064	APPLICATION AND IDENTIFICATION METHOD OF 2-OCTYL-3-ISOTHIAZOLINONE IN PREVENTING AND CONTROLLING TOBACCO FUNGAL DISEASES	2024/10/25
2024/08069	CATALYST SYSTEM FOR A FLOW REACTOR, AND METHOD FOR THE CATALYTIC OXIDATION OF AMMONIA	2024/10/25
2024/08081	HOT-STAMPED COMPONENT HAVING HIGH COLD-BENDING PERFORMANCE AND HIGH STRENGTH, AND MANUFACTURING METHOD THEREFOR	2024/10/25
2024/08084	CHILDREN'S VEHICLE WITH ROTARY STEERING AND WEIGHT-SHIFT STEERING	2024/10/25
2024/08085	MULTI-FUNCTIONAL CHILDREN'S VEHICLE	2024/10/25
2024/08113	IMPROVED PROCESS FOR THE MANUFACTURE OF OSIMERTINIB	2024/10/28
2024/08120	ULTRAHIGH-STRENGTH COLD-ROLLED STEEL STRIP HAVING TENSILE STRENGTH OF 1450 MPA OR ABOVE AND MANUFACTURING METHOD THEREFOR	2024/10/28
2024/08169	EXERCISE MACHINE WITH MOVABLE BELT OR CHAIN	2024/10/29
2024/08188	ACNE MARK AND SCAR CREAM	2024/10/30
2024/08189	BLEMISH NIGHT CREAM	2024/10/30
2024/08192	A DRILL ASSEMBLY, A METHOD OF	2024/10/30

Application Number	Patent Title	Filing Date
	INSTALLING A VALVE, AND A VALVE INSTALLATION KIT	
2024/08216	SYSTEM AND METHOD FOR OPERATING A COMMINUTION PROCESS IN A TUMBLING MILL	2024/10/30
2024/08217	SYSTEM AND METHOD FOR OPERATING A COMMINUTION PROCESS IN A TUMBLING MILL	2024/10/30
2024/08221	TREATMENT OF AUTOIMMUNE DISEASES WITH ENGINEERED IMMUNE CELLS	2024/10/30
2024/08262	MONOCLONAL ANTIBODIES AND BISPECIFIC ANTIBODY AGAINST C-MET	2024/10/31
2024/08265	SYSTEM AND METHOD FOR SHARPENING THE FOCAL VOLUME OF THERAPEUTIC AND IMAGING SYSTEMS	2024/10/31
2024/08266	MALTED DEHUSKED BARLEY	2024/10/31
2024/08294	FABRIC CARE COMPOSITION	2024/11/01
2024/08296	AN ELECTRIC GENERATOR PHASE RING HANDLING TOOL, A SYSTEM FOR SERVICING OR INSTALLING ONE OR MORE PHASE RINGS IN AN ELECTRIC GENERATOR COMPRISING SAID HANDLING TOOL AND A METHOD FOR SERVICING OR INSTALLING ONE OR MORE PHASE RINGS IN AN ELECTRIC GENERATOR WITH SAID SYSTEM	2024/11/01
2024/08318	ASPERGILLUS NIGER FUNGUS FOR TOXICITY OF PLANT PARASITIC NEMATODES AND PREPARATION METHOD AND APPLICATION THEREOF	2024/11/04
2024/08322	MINE SUPPORT STRUCTURE	2024/11/04
2024/08327	ENANTIOSELECTIVE METHODS FOR PREPARING CHIRAL AMINE INTERMEDIATES	2024/11/04
2024/08336	POT AND METHOD FOR GROWING PLANTS	2024/11/04
2024/08409	CONSTRUCTION OPERATION METHOD AND SYSTEM FOR OUTER CURTAIN WALLS OF HIGH-ALTITUDE LARGE-SPAN BUILDING CORRIDOR	2024/11/06
2024/08428	A DRIVE TRANSMISSION ARRANGEMENT FOR A PLANTER	2024/11/07
2024/08429	A METERING SYSTEM	2024/11/07
2024/08433	METHOD FOR EXTRACTING TEXT RECORDS OF A HIERARCHICAL CLASSIFIER WITH SEVERAL LEVELS OF NESTING FROM A DATABASE	2024/11/07
2024/08434	DEVICE FOR EXTRACTING TEXT RECORDS OF A HIERARCHICAL CLASSIFIER WITH SEVERAL LEVELS OF NESTING FROM A DATABASE	2024/11/07

Application Number	Patent Title	Filing Date
2024/08443	PROCESS FOR THE RECOVERY OF PLATINUM FROM SPENT PLATINUM-CONTAINING SOLID RESIDUES	2024/11/07
2024/08445	SYSTEMS AND METHODS FOR INSECT CONTROL	2024/11/07
2024/08496	HYDROGEN PRODUCTION AND SULFUR-CARBON SEQUESTRATION	2024/11/08
2024/08503	NOVEL 7-SUBSTITUTED INDOLE SULFONAMIDE DERIVATIVES	2024/11/08
2024/08522	A METHOD, A DEVICE AND A MEDIUM FOR IMAGE SEGMENTATION	2024/11/11
2024/08587	SACCHAROMYCES CEREVISIAE YEAST AND USE THEREOF FOR IMPROVING THE INTESTINAL HEALTH OF PETS	2024/11/12
2024/08589	SWING HANDLE ARRANGEMENT WITH A LOCKING FUNCTION	2024/11/12
2024/08592	STRAIN MEASURING SENSOR DEVICES FOR EARTH MOVING MACHINES	2024/11/12
2024/08618	A NOVEL COMBINATION OF SALICYLIC ACID, MINERAL HYDROXIDES, AND CARBONIC ACID SALTS FOR SYSTEMIC ACQUIRED RESISTANCE AND DISEASE INHIBITION	2024/11/13
2024/08623	BATTERY SYSTEM CAPABLE OF HEAT DISSIPATION	2024/11/13
2024/08628	CAREBASTINE SALT AND USE OF SAME	2024/11/13
2024/08687	A PHOTOVOLTAIC MODULE CLEANING DEVICE	2024/11/15
2024/08756	CARDIAC REHABILITATION AUXILIARY TREATMENT DEVICE	2024/11/18
2024/08759	DATA MONITORING AND PROCESSING METHOD AND SYSTEM BASED ON INTELLIGENT HOSPITAL BED	2024/11/18
2024/08813	PASSIVE LOAD MONITORING METHOD AND SYSTEM	2024/11/20
2024/08821	HOLE MEASUREMENT SYSTEM	2024/11/20
2024/08903	DIHYDROOXADIAZINONE COMPOUND AND PHARMACEUTICAL USE THEREOF	2024/11/22
2024/08959	METHOD FOR MEASURING SUBDIVISION ANGLE OF ROTATING SHAFT OF ROBOT SERVO SYSTEM	2024/11/25
2024/08973	WIND TURBINE SYSTEM	2024/11/26
2024/09018	TRANSFER BED FOR GYNECOLOGICAL AFTERLOADING THERAPY	2024/11/27
2024/09049	ERGONOMIC SEATING CHAIR OVERCOME THE DISCOMFORT CAUSED BY PROLONGED SITTING	2024/11/27
2024/09050	ADJUSTABLE ART DESK WITH STAIN-RESISTANT GLASS SURFACE AND INTEGRATED STORAGE COMPARTMENTS	2024/11/27
2024/09062	MEASURING ROLLER STATION FOR A	2024/11/27

Application Number	Patent Title	Filing Date
	BELT SCALE OF A CONVEYOR BELT SYSTEM AND CONVEYOR BELT SYSTEM	
2024/09083	AN ANIMAL DETECTION AND TRAP SYSTEM FOR SMART HOME	2024/11/28
2024/09084	AUTONOMOUS AI-POWERED PET CARE SYSTEM	2024/11/28
2024/09085	INTEGRATED IOT-BASED MANAGEMENT SYSTEM FOR ANYTIME WATER KIOSKS	2024/11/28
2024/09096	METHOD AND SYSTEM FOR DETECTING AND QUANTIFYING CO2 AND ETHYLENE LEVELS IN FRUIT BOXES TO SEGREGATE OVERRIPE OR SPOILED FRUITS	2024/11/28
2024/09097	DOSING SYSTEM FOR SHIKAKAI SUSPENSION-BASED FRUIT CLEANING	2024/11/28
2024/09098	METHOD AND SYSTEM FOR AUTOMATIC CLEANING OF OVERHEAD WATER TANKS	2024/11/28
2024/09103	METHOD AND SYSTEM FOR ENHANCED SKIN CANCER CLASSIFICATION USING DEEP LEARNING WITH COMPARATIVE ANALYSIS	2024/11/28
2024/09104	A SYSTEM FOR MONITORING PARALYSIS PATIENT AND METHOD THEREOF	2024/11/28
2024/09155	VISUAL ONE LUNG VENTILATION CATHETER	2024/11/29
2024/09156	VISUAL ORAL FLAP POSTOPERATIVE BLOOD FLOW DETECTION PEN	2024/11/29
2024/09181	ROD HANDLING SYSTEM FOR A DRILLING RIG	2024/11/29
2024/09182	CATALYST SUPPORT SYSTEM FOR AMMONIA OXIDATION BURNERS	2024/11/29
2024/09185	RUBBER TUBE FOR PHYSICAL FITNESS	2024/11/29
2024/09186	METHOD FOR IDENTIFYING DEMENTIA WITH LEWY BODIES IN A SUBJECT	2024/11/29
2024/09197	A TRACTION DEVICE FOR MINIMALLY INVASIVE TREATMENT OF GASTROINTESTINAL TUMORS	2024/12/02
2024/09206	A METHOD, DEVICE, SYSTEM, AND STORAGE MEDIUM FOR IDENTIFYING ULTRA-WIDEBAND (UWB) NON-LINE-OF-SIGHT (NLOS) CONDITIONS	2024/12/02
2024/09207	ENDOTRACHEAL TUBE FIXATION DEVICE	2024/12/02
2024/09208	KIDNEY TRANSPLANT PATIENT POSTOPERATIVE MANAGEMENT SYSTEM FOR NURSING ASSISTANCE	2024/12/02
2024/09248	AN ULTRASONIC FLOWMETER WITH EASY INSTALLATION	2024/12/03
2024/09250	A MULTI-TERRAIN MOUNTED UNMANNED AERIAL VEHICLE LANDING	2024/12/03

Application Number	Patent Title	Filing Date
	PLATFORM AND AN APPLICATION METHOD THEREOF	
2024/09251	A HUMAN BODY LIMIT PROTECTION DEVICE FOR VIRTUAL REALITY EQUIPMENT AND AN APPLICATION METHOD THEREOF	2024/12/03
2024/09252	AUTOMATED COMPUTER-AIDED DETECTION SYSTEM FOR PULMONARY NODULE DETECTION AND CLASSIFICATION IN LUNG CANCER DIAGNOSIS	2024/12/03
2024/09272	DRAWING DEVICE FOR MATHEMATICAL MODELING AND USING METHOD THEREOF	2024/12/03
2024/09280	A BOTULINUM TOXIN SYRINGE	2024/12/03
2024/09293	A BRAKE SYSTEM FOR HEAVY DUTY VEHICLES HAVING BOTH A SERVICE BRAKE AND FAIL-SAFE BRAKE	2024/12/04
2024/09335	A SIMULATION OF MICROGRID SYSTEM USING MICROCONTROLLER	2024/12/05
2024/09336	A JAMMING UAV SYSTEM	2024/12/05
2024/09337	A USER-INTERACTIVE ANIMATION SYSTEM FOR VISUALIZING DATA STRUCTURES	2024/12/05
2024/09338	A SYSTEM FOR CONNECTING HOSPITALS WITH DOCTORS	2024/12/05
2024/09339	POWER OUTLET ASSEMBLY FOR ELECTRIC STACK, PARTICULARLY FUEL CELL STACK	2024/12/04
2024/09377	VISUAL IRRIGATION DECISION-MAKING AUXILIARY SYSTEM BASED ON WEATHER FORECASTING AND CONTROL METHOD	2024/12/09
2024/09378	CLAMPING AND FIXING DEVICE FOR TRUNK OF ACCA SELLOWIANA TREE	2024/12/09
2024/09379	PORTABLE TREATMENT DEVICE FOR INDOOR AQUACULTURE WASTEWATER	2024/12/09
2024/09381	TERAHERTZ OAM RING CORE PHOTONIC CRYSTAL FIBER	2024/12/09
2024/09382	APPLICATION OF PRIMER PAIR FOR SCREENING FIELD NECK-BLAST-RESISTANT RICE GERMPLASM SOURCES	2024/12/09
2024/09383	ANALYSIS METHOD OF SOCIAL NETWORK BEHAVIOR BASED ON VARIABLE SELECTION	2024/12/09
2024/09384	A NASAL CAVITY CLEANING DEVICE FOR PEDIATRIC CLINICAL DIAGNOSIS AND TREATMENT	2024/12/09
2024/09385	A METHOD FOR PROMOTING THE DIRECTIONAL CONVERSION OF HUMIC ACID TO FULVIC ACID	2024/12/09

Application Number	Patent Title	Filing Date
2024/09386	A RAPID DISCONNECTION DEVICE FOR NETWORK SECURITY	2024/12/09
2024/09387	A STRAIN OF STREPTOMYCES AND ITS APPLICATION IN PLANTS	2024/12/09
2024/09388	SURFACE SOIL SAMPLING DEVICE FOR ORGANIC CARBON CONTENT DETECTION	2024/12/09
2024/09392	LAMB INCUBATOR BOX FOR MUTTON SHEEP BREEDING	2024/12/09
2024/09393	UNINTERRUPTIBLE POWER SUPPLY SYSTEM WITH FAULT CLEARING CAPABILITY	2024/12/09
2024/09394	IMAGE SEGMENTATION METHOD AND SYSTEM BASED ON IMPROVED WHALE ALGORITHM	2024/12/09
2024/09395	MULTI-MODAL INFORMATION DEBIASING RECOMMENDATION METHOD FOR BREAKING THROUGH INFORMATION COCOONS	2024/12/09
2024/09396	ELECTRONIC INFORMATION AUTOMATION CONTROL DEVICE	2024/12/09
2024/09397	SCRAPING DEVICE FOR TRADITIONAL CHINESE MEDICINE NURSING	2024/12/09
2024/09398	DISASSEMBLING DEVICE FOR COPPER COIL OF ELECTRIC VEHICLE HUB	2024/12/09
2024/09399	METHOD FOR PREPARING TITANIUM-CONTAINING SLAG BY MELTING VANADIUM-TITANIUM-CONTAINING MAGNETITE	2024/12/09
2024/09400	METHOD FOR LOW-CARBON UTILIZATION OF VANADIUM-TITANIUM-CONTAINING MAGNETITE	2024/12/09
2024/09401	A DOUBLE CRANKSHAFT RECIPROCATING ENGINE	2024/12/09
2024/09402	LAYERED SOLIDIFICATION TYPE CASTING DEVICE FOR HIGH-PRECISION AVIATION ALUMINUM ALLOY CASTING AND CASTING METHOD	2024/12/09
2024/09403	METHOD FOR COMPUTING CONVERSION TIME FOR TRANSPORTING OIL AND GAS FROM OIL-SOURCE FAULT TO SAND BODY,AND RELEVANT DEVICES	2024/12/09
2024/09404	ANALYSIS METHOD AND SYSTEM FOR MALFUNCTIONS OF RELAY PROTECTION DEVICE COMPONENT BASED ON MULTIPHYSICS SIMULATION	2024/12/09
2024/09405	A TYPE OF AGRICULTURAL SPRINKLER TRUCK	2024/12/09
2024/09406	TEACHING DEVICE FOR KOREAN LANGUAGE TEACHING	2024/12/09
2024/09407	POLE HOLE SOIL SAMPLER	2024/12/09

Application Number	Patent Title	Filing Date
2024/09408	CONSTRUCTION METHOD FOR STEEL TUBE ARCH	2024/12/09
2024/09409	A SUPPORT APPARATUS FOR TUNNEL CONSTRUCTION	2024/12/09
2024/09418	BOOK RESOURCE MANAGEMENT METHOD AND DEVICE	2024/12/09
2024/09419	DISCHARGE SYSTEM FOR DESULFURIZATION WASTEWATER IN POWER PLANT	2024/12/09
2024/09420	NEW YIELDING ARCH FRAME FOR TUNNELS IN EXPANSIVE SOIL LAYERS AND MANUFACTURING METHOD THEREOF	2024/12/09
2024/09422	ECO-FRIENDLY MOSQUITO REPELLENT CAKES MADE FROM NATURAL INGREDIENTS FOR EFFECTIVE PEST CONTROL	2024/12/09
2024/09423	TEMPERATURE-CONTROL COOLING DEVICE FOR SEAMLESS BEARING STEEL PIPE	2024/12/09
2024/09424	A METHOD FOR EXTRACTING TOBACCO PLANTING REGIONS BASED ON PIE AND SENTINEL-2	2024/12/09
2024/09429	ECOLOGICAL RESTORATION METHOD FOR SODA-TYPE SALINE-ALKALI SOIL	2024/12/09
2024/09431	A SERVICE TRANSACTION MANAGEMENT SYSTEM BASED ON BLOCKCHAIN TECHNOLOGY	2024/12/09
2024/09434	A FLUORESCENT TRACER POLYESTER SCALE INHIBITOR AND A PREPARATION METHOD AND APPLICATION THEREOF	2024/12/09
2024/09444	SEED DRESSING AGENT FOR PROMOTING CROP ROOTING AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF	2024/12/09
2024/09445	METHOD OF COATING A PIPE	2024/12/09
2024/09452	POLYETHYLENE -BASALT FIBER COMPOSITE MODIFIED ASPHALT MIXTURE AND PREPARATION METHOD THEREFOR	2024/12/09
2024/09483	PORTABLE PESTICIDE SPRAYING DEVICE FOR TOBACCO	2024/12/10
2024/09484	ADJUSTABLE TEACHING INSTRUMENT PLACEMENT TABLE	2024/12/10
2024/09485	ADAPTIVE CONTROL METHOD, DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM OF UNDERWATER VEHICLE BASED ON DOUBLE CLOSED-LOOP CONTROL	2024/12/10
2024/09486	THREE-DIMENSIONAL FACE RECONSTRUCTION METHOD BASED ON WEIGHTED SEMI-SUPERVISED	2024/12/10

Application Number	Patent Title	Filing Date
	LEARNING AND SEMANTIC DISENTANGLEMENT	
2024/09487	UNMANNED AERIAL VEHICLE FOR SURVEYING AND MAPPING IN REMOTE SENSING ENGINEERING	2024/12/10
2024/09489	AUXILIARY DEVICE FOR EXPLOSIVE POWER TRAINING	2024/12/10
2024/09490	PREFABRICATED PARTITION FOR DECORATION WITH SOUNDPROOFING AND NOISE REDUCTION CAPABILITIES	2024/12/10
2024/09491	DESIGN METHOD AND CONTROL METHOD FOR LARGE-SIZE SINGLE CRYSTAL GROWTH BY THE CZOCHRALSKI METHOD	2024/12/10
2024/09492	AN EFFICIENT COIN IDENTIFICATION SYSTEM USING SOFT COMPUTING TECHNIQUE	2024/12/10
2024/09493	DEVICE FOR UNDERGROUND ENGINEERING SAFETY MONITORING	2024/12/10
2024/09494	WATER-BASED MUD TREATMENT DEVICE FOR COALBED METHANE DEVELOPMENT	2024/12/10
2024/09495	A STATISTICAL METHOD OF APPLIED MATHEMATICAL PROBABILITY	2024/12/10
2024/09496	PESTICIDE COMPOSITION INHIBITING ONION BACTERIAL ROOT ROT AND ITS APPLICATION	2024/12/12
2024/09497	REMOTE NURSING DEVICE FOR THE ELDERLY	2024/12/10
2024/09498	DEMONSTRATION TEACHING AIDS FOR TEACHING ORDINARY DIFFERENTIAL EQUATIONS OF ADVANCED MATHEMATICS	2024/12/10
2024/09499	INTELLIGENT PEN AND STROKE CORRECTION SYSTEM FOR HANDWRITING	2024/12/10
2024/09526	AN ECO MODIFIED POLYURETHANE CONCRETE REINFORCEMENT LAYER STRUCTURE AND REINFORCEMENT METHOD THEREOF	2024/12/11
2024/09527	SEPARATION METHOD AND ANTI-INFLAMMATORY APPLICATION OF HALIMANE DITERPENOID	2024/12/11
2024/09529	PLASTIC OPTICAL FIBER SIDE-HOLE STRUCTURE QUASI-DISTRIBUTED PRESSURE SENSOR	2024/12/11
2024/09530	A HIGH-EFFICIENCY IN-SITU GAS REDUCTION AND ELIMINATION METHOD FOR THICK COAL SEAMS	2024/12/11
2024/09531	DIGITAL FINANCIAL SERVICE PLATFORM BASED ON BLOCKCHAIN	2024/12/11
2024/09532	METHOD AND SYSTEM BASED ON	2024/12/11

Application Number	Patent Title	Filing Date
	DIGITAL FINANCE FOR PUSHING BIG DATA	
2024/09533	BIOFILM CARRIER	2024/12/11
2024/09534	PREPARATION METHOD FOR CARBON FIBER DISPERSION AND APPLICATION THEREOF	2024/12/11
2024/09536	COLORANT DISPENSER AND COLOR-PASTE OUTPOURING METHOD FOR COLORANT DISPENSER	2024/12/11
2024/09539	MOISTUREPROOF POWER DISTRIBUTION CABINET FOR ARCHITECTURE ELECTRIC ENGINEERING	2024/12/11
2024/09540	ENTERPRISE DIGITAL MANAGEMENT SYSTEM	2024/12/11
2024/09543	MULTI-INTERVAL THROUGH SURVEY METHOD FOR TUNNEL	2024/12/11
2024/09544	METHOD AND APPARATUS FOR FEEDBACKING HUMAN-MACHINE COLLABORATION STATE BASED ON VIRTUAL-REAL INTEGRATION, AND ELECTRONIC DEVICE	2024/12/11
2024/09545	EXTERNAL INSULATION STRUCTURE FOR BUILDING FLOOR AND BEAM	2024/12/11
2024/09546	EXTERNAL WALL HEAT INSULATION COLUMN FOR BUILDING	2024/12/11
2024/09547	EDDY CURRENT-BASED SELF-DRIVEN VOLTAGE SAG MITIGATION DEVICE AND POSITION SELECTION METHOD	2024/12/11
2024/09548	A METHOD, SYSTEM, AND APPARATUS FOR MITIGATING VOLTAGE SAGS IN A POWER DISTRIBUTION NETWORK	2024/12/11
2024/09556	HYDROGEN PRODUCING DEVICE	2024/12/11
2024/09557	WASHING WATER-SAVING SYSTEM FOR CLEAN AIR CONDITIONER	2024/12/11
2024/09558	EFFICIENT WASTE HEAT RECOVERY SETTING MACHINE	2024/12/11
2024/09574	CONSTRUCTION METHOD FOR EPISOMAL PLASMIDS IN CHLAMYDOMONAS REINHARDTII CHLOROPLASTS AND USE THEREOF	2024/12/11
2024/09584	OPTIMAL CONTROL METHOD OF REFLOW OVEN TEMPERATURE	2024/12/12
2024/09585	METHOD FOR FIELD FOCUSING BASED ON WEBPAGE KEYWORDS AND SYSTEM	2024/12/12
2024/09586	A PATROL PATH PLANNING METHOD FOR AN ELECTRIC UNMANNED AERIAL VEHICLE	2024/12/12
2024/09587	MOBILE MAINTENANCE OPERATION SIGN VEHICLE	2024/12/12
2024/09588	A DETECTION DEVICE FOR REGENERATED POLYESTER AND	2024/12/12

Application Number	Patent Title	Filing Date
	COTTON FUNCTIONAL FABRIC	
2024/09589	A DRIP IRRIGATION TAPE RECYCLING AND PACKAGING MACHINE	2024/12/12
2024/09592	HIGH-EFFICIENCY AND ENERGY-SAVING AIR CONDITIONING SYSTEM WITH DEHUMIDIFICATION FUNCTION	2024/12/12
2024/09593	MULTI-HEAD INFRARED SUSPENSION MOXIBUSTION INSTRUMENT	2024/12/12
2024/09597	ALUMINUM ALLOY ADDITIVE, AND PREPARATION METHOD THEREFOR AND USE THEREOF	2024/12/12
2024/09615	DIARYLHEPTANOID BASED MEDICINAL PREPARATION AND METHOD OF PREPARATION OF THE SAME	2024/12/12
2024/09621	AUTOMATIC CORAL PLANTING DEVICE AND CORAL PLANTING METHOD	2024/12/12
2024/09626	METHOD AND DEVICE FOR FULLY QUANTIFYING SOIL BIOLOGICAL ACTIVITY RECLAMATION OF RED MUD BY BIOLOGICAL METHOD	2024/12/13
2024/09627	APPLICATION OF PRIMER PAIR FOR SCREENING BROAD-SPECTRUM NECK-BLAST-RESISTANT RICE GERMPLASM SOURCES	2024/12/13
2024/09630	A TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING THYROID NODULES, BREAST NODULES AND LUNG NODULES	2024/12/13
2024/09631	METHOD FOR PRETREATMENT OF ASPHALT MIXTURE AND METHOD FOR DETECTING ASPHALT IN ASPHALT MIXTURE	2024/12/13
2024/09632	CAPILLARY AIR CONDITIONING SYSTEM BASED ON GROUND SOURCE HEAT PUMP	2024/12/13
2024/09633	DEVICE FOR COLLECTING PLANT ROOT LAYER SOIL SAMPLES	2024/12/13
2024/09634	NETWORK ANOMALY DETECTION METHOD BASED ON HIGH-DIMENSIONAL STATISTICS	2024/12/13
2024/09635	A HIGH-STABILITY TEACHING DEMONSTRATION DEVICE	2024/12/13
2024/09638	A TEACHING DESK FOR MUSIC EDUCATION	2024/12/13
2024/09639	A CONDUCTING BATON FOR GUIDING RHYTHM IN MUSIC TEACHING	2024/12/13
2024/09640	A MORTAR TRANSPORTATION DEVICE FOR CONSTRUCTION ENGINEERING	2024/12/13
2024/09646	CLOTH DYEING EQUIPMENT	2024/12/13
2024/09647	LARGE LANGUAGE MODEL-BASED VALIDATION SYSTEM FOR EFFECTIVENESS OF PHARMACEUTICAL	2024/12/13

Application Number	Patent Title	Filing Date
	MOLECULE	
2024/09648	DURABILITY MONITORING DEVICE AND DETECTION METHOD FOR REINFORCED CONCRETE STRUCTURES	2024/12/13
2024/09649	A PREPARATION METHOD FOR A PHOTOCATALYTIC ORGANIC SYNTHESIS ACCELERATOR	2024/12/13
2024/09650	ROADBED COMPACTION DEGREE TESTING SAMPLING APPARATUS AND METHOD FOR HIGHWAY ENGINEERING	2024/12/13
2024/09655	RESTRAINT FRAME FOR PATIENT UNDERGOING INTRASPINAL ANESTHESIA	2024/12/13
2024/09656	ANESTHESIA MASK	2024/12/13
2024/09657	METHOD FOR PRODUCING SULFONE DERIVATIVE USING HALOACETIC ACID	2024/12/13
2024/09677	A GENERALIZED DYNAMIC PREDICTIVE CONTROL METHOD FOR REALIZING THE TRAJECTORY TRACKING OF MANIPULATOR SYSTEMS	2024/12/13
2024/09678	LABEL FOR PACKAGING	2024/12/13
2024/09686	A MATERIAL DETECTION METHOD BASED ON SINGLE STANDARD SAMPLE CORRECTION - LASER INDUCED BREAKDOWN SPECTROSCOPY	2024/12/17
2024/09687	DIGITAL MONITORING METHOD FOR OPEN CAISSON CONSTRUCTION	2024/12/17
2024/09689	ANTI-FALLING CLOSED CHEST DRAIN	2024/12/17
2024/09690	AN AUTOMATIC IRRIGATION SYSTEM FOR CROPS BASED ON ENVIRONMENTAL SENSORS	2024/12/17
2024/09691	OINTMENT FOR TREATING ARTHRITIS AND PREPARATION METHOD THEREFOR	2024/12/17
2024/09692	HOLLOW ULTRASONIC MOTOR WITH ADJUSTABLE PRE-PRESSURE	2024/12/17
2024/09693	LOWER JAW SUPPORT, AND METHOD AND SYSTEM FOR CONTROLLING LOWER JAW SUPPORT	2024/12/17
2024/09694	A STOP JUMP SHOT TRAINING DEVICE FOR BASKETBALL TEACHING	2024/12/17
2024/09696	SAND TABLE FOR INNOVATIVE DESIGN	2024/12/17
2024/09697	PRIMER FOR IDENTIFYING PIGEON-DERIVED COMPONENTS IN LIVESTOCK AND POULTRY MEAT AND APPLICATION THEREOF	2024/12/17
2024/09698	ADJUSTABLE SEAT CONVENIENT FOR ADJUSTING BACKREST HEIGHT	2024/12/17
2024/09699	METHOD AND SYSTEM FOR SHARING MATHEMATICS TEACHING RESOURCES BASED ON CLOUD COMPUTING	2024/12/17
2024/09700	BRIDGE TYPE MULTIFUNCTIONAL	2024/12/17

Application Number	Patent Title	Filing Date
	AUTOMOBILE MAINTENANCE PLATFORM	
2024/09701	A VISUALIZED INTELLIGENT TEACHING SYSTEM FOR VOCATIONAL EDUCATION IN NEW ENERGY VEHICLES	2024/12/17
2024/09702	HOLE SEALING DEVICE FOR MINE BLASTING	2024/12/17
2024/09703	MINE BLASTING VIBRATION MONITOR	2024/12/17
2024/09705	PRIMER SET AND DETECTION METHOD FOR DETECTING PIGEON-DERIVED COMPONENTS ACCORDING TO CO 1 GENE	2024/12/17
2024/09706	REHABILITATION NURSING DEVICE FOR VASCULAR MEDICINE	2024/12/17
2024/09707	CURTAIN OVERLAP MECHANISM	2024/12/17
2024/09708	MOLECULAR SIEVE COMPOSITE MATERIAL SUITABLE FOR OZONE CATALYSIS TECHNOLOGY, PREPARATION METHOD AND APPLICATION THEREOF	2024/12/17
2024/09710	EUKARYOTIC RECOMBINANT EXPRESSION VECTOR, RECOMBINANT CELL, AND APPLICATION THEREOF FOR EXPRESSING HUMAN SOLUBLE NECTIN-4 EXTRACELLULAR DOMAIN PROTEIN	2024/12/17
2024/09711	SYNBIOTIC COMPOUND FOR PROMOTING COLONIZATION OF BIFIDOBACTERIA AND PREPARATION METHOD THEREOF	2024/12/17
2024/09712	EUCOMMIA ULMOIDES TRADITIONAL CHINESE MEDICINE HYDROGEL FACIAL MASK PATCH AND PREPARATION METHOD AND APPLICATION THEREOF	2024/12/17
2024/09713	DISINFECTION DEVICE FOR FEVER CLINIC NURSING	2024/12/17
2024/09714	CONSTRUCTION METHOD FOR GREEN BUILDING WALLS	2024/12/17
2024/09715	RECYCLING, CRUSHING AND SEPARATION EQUIPMENT FOR WASTE CONCRETE PRECAST COMPONENT	2024/12/17
2024/09716	PUBLIC HEALTH ATOMIZATION DISINFECTION DEVICE	2024/12/17
2024/09717	MEDICINE SPRAYING AND OXYGEN SUPPLY BREATHING MASK FOR RESPIRATORY MEDICINE	2024/12/17
2024/09718	A METHOD FOR MAINTAINING THE FLAVOR AND TEXTURE OF FROZEN PREPARED MEAT PRODUCTS	2024/12/17
2024/09719	A CULTIVATION EQUIPMENT AND CULTIVATION METHOD FOR OILSEED RAPE WITH HIGH OLEIC ACID	2024/12/17
2024/09720	A COCHLEAR IMPLANT POSITIONING AND MEASURING DEVICE	2024/12/17

Application Number	Patent Title	Filing Date
2024/09721	THE PROTEIN MARKERS USED FOR THE DETECTION OF FETAL GROWTH RESTRICTION AND THEIR APPLICATION	2024/12/17
2024/09722	AN EXTRACTION AND CONCENTRATION DEVICE FOR ACTIVE INGREDIENTS IN TRADITIONAL CHINESE MEDICINE AND ITS PROCESS	2024/12/17
2024/09726	AGV INTELLIGENT CHARGING SYSTEM BASED ON WIRELESSCHARGING	2024/12/17
2024/09729	IMPLEMENTATION METHOD FOR PAPER-ORIENTED VISUAL IDENTIFICATION ANTI-COUNTERFEITING ELECTRONIC SEAL	2024/12/17
2024/09731	A TRANSPORT STRETCHER FOR EMERGENCY AND CRITICAL CARE IN INTERNAL MEDICINE, DESIGNED FOR EASY LIFTING OF PATIENTS	2024/12/17
2024/09754	DUMPLING AND MAKING METHOD THEREFOR	2024/12/18
2024/09755	CONTROL METHOD OF SERVO MOTOR NONLINEAR SYSTEM	2024/12/18
2024/09756	TARGETED GENE RECOMBINATION METHOD	2024/12/18
2024/09757	WIND POWER GENERATION SYSTEM UTILIZING RAILWAY OR HIGHWAY FACILITIES AND METHOD THEREOF	2024/12/18
2024/09758	A METHOD FOR THE PREPARATION OF BIPHENYL-4-FORMYL COREY LACTONE AND TRIPHENYLMETHANOL	2024/12/18
2024/09759	ROADWAY ROOF MONITORING METHOD AND SYSTEM BASED ON INTELLIGENT ROBOT INSPECTION	2024/12/18
2024/09760	FILM COMPOSITE NANOMETER SEMICONDUCTOR OPTOELECTRODE MATERIAL	2024/12/18
2024/09761	TITANIUM ALLOY TUBE INTERNAL AND EXTERNAL GRINDING DEVICE	2024/12/18
2024/09762	METHOD FOR DEGRADING ORGANIC POLLUTANTS	2024/12/18
2024/09763	HIGH-YIELD CULTIVATION METHOD FOR SOLANUM TUBEROSUM	2024/12/18
2024/09764	SMART CITY TRAFFIC PLANNING SYSTEM BASED ON SIMULATION DYNAMIC SIMULATION TECHNOLOGY	2024/12/18
2024/09765	PROCESSING METHOD FOR CORYDALIS YANHUSUO SLICES	2024/12/18
2024/09766	PREPARATION METHOD OF CORE-SHELL COMPOSITE PHOTOCATALYTIC MATERIAL FOR TREATING DYE WASTEWATER	2024/12/18
2024/09767	PHARMACEUTICAL MANAGEMENT METHOD AND SYSTEM IN CLINICAL	2024/12/18

Application Number	Patent Title	Filing Date
	TRIAL NURSING PROCESS OF TRIAL PHARMACEUTICALS	
2024/09768	METHOD FOR PREPARING CEO2@MNO2 COMPOSITE MATERIALS	2024/12/18
2024/09769	SPECIAL FERTILIZER FOR PLANTING GLEHNIA LITTORALIS AND PREPARATION METHOD THEREOF	2024/12/18
2024/09771	SIRNA INTERFERING COMPOSITION FOR INHIBITING BREAST CANCER TUMOR GROWTH AND METASTASIS AND USE THEREOF	2024/12/18
2024/09772	GRADED REMOVAL METHOD OF MERCURY ELEMENT IN COAL	2024/12/18
2024/09773	HUMAN BIOLOGICAL RHYTHM MONITORING METHOD	2024/12/18
2024/09774	AN AUTOMATIC GENERATOR	2024/12/18
2024/09776	NOVEL AUTOMOTIVE LITHIUM BATTERY PACK	2024/12/18
2024/09777	DEVICE FOR DETECTING LITHIUM BATTERIES	2024/12/18
2024/09779	ENCRYPTION AND RETRIEVAL METHOD FOR IOT, AND IOT SYSTEM	2024/12/18
2024/09780	INTELLIGENT IOT CONTROL METHOD AND IOT SYSTEM	2024/12/18
2024/09785	TISSUE CULTURE METHOD FOR QUERCUS NUTTALLII	2024/12/18
2024/09786	BIDIRECTIONAL COMBINED PUMP WITH HEAT DISSIPATION FUNCTION	2024/12/18
2024/09788	SYSTEMS AND METHODS FOR IDENTIFYING PEPTIDES	2024/12/18
2024/09810	DATA TRANSMISSION METHOD AND APPARATUS, AND DEVICE AND STORAGE MEDIUM	2024/12/18
2024/09829	METHOD FOR IMPROVING FECUNDITY OF BREEDING GEESE	2024/12/18
2024/09830	METHOD AND DEVICE FOR EFFICIENT REAL-TIME MACHINE TRANSLATION	2024/12/19
2024/09831	SINGLE-HOLE MONITORING DEVICE AND MONITORING SYSTEM FOR COAL MINE DRAINAGE BOREHOLE	2024/12/19
2024/09832	MOLECULAR SIEVE COMPOSITE MATERIAL WITH DUAL FUNCTION OF ADSORPTION AND PHOTOCATALYTIC DEGRADATION AND PREPARATION METHOD AND APPLICATION THEREOF	2024/12/19
2024/09833	CURTAIN CONTROL DEVICE	2024/12/19
2024/09834	SELF-CLEANING DEVICE OF BOREHOLE OBSERVATION INSTRUMENT WITH ADJUSTING FUNCTION	2024/12/19
2024/09835	A POLYGONATUM KINGIANUM RAW PULP BISCUIT AND A PREPARATION METHOD THEREOF	2024/12/19

Application Number	Patent Title	Filing Date
2024/09836	SYSTEM FOR POWER GRID PEAK REGULATION	2024/12/19
2024/09837	RESIDUE-FREE FOOD-GRADE LIVESTOCK PRODUCT DEPILATORY AND PREPARATION METHOD THEREOF	2024/12/19
2024/09838	LOGISTICS PACKAGE SORTING SYSTEM BASED ON ARTIFICIAL INTELLIGENCE	2024/12/19
2024/09839	VISUALIZED INTELLIGENT VOICE PILLBOX	2024/12/19
2024/09840	A RAPID-DRYING EQUIPMENT FOR RAPESEED STALKS AND A PRODUCTION PROCESS FOR RAPESEED STALKS PRODUCTS	2024/12/19
2024/09841	A METHOD FOR EXTRACTING AND SEPARATING EFFECTIVE COMPONENTS OF POLYGONUM MULTIFLORUM AND A DEVICE THEREOF	2024/12/19
2024/09842	NET ODOR LATEX PAINT WITH ULTRA-LOW VOLATILE ORGANIC COMPUNDS (VOC) AND SEMI-VOLATILE ORGANIC COMPOUNDS (SVOC) EMISSIONS AND A PREPARATION METHOD THEREOF	2024/12/19
2024/09843	PROCESSING AND PREPARATION METHOD FOR SILAGE OF AMOMUM TSAOKO STEMS AND LEAVES	2024/12/19
2024/09844	DISPLAY DEVICE FOR HUMAN ANATOMY IMMERSION SPECIMENS	2024/12/13
2024/09845	INTERACTIVE LEARNING SYSTEM FOR DRUG MOLECULES BASED ON LARGE LANGUAGE MODEL	2024/12/13
2024/09846	STAR DATA ACQUISITION DEVICE BASED ON BROADBAND WIRELESS COMMUNICATION	2024/12/13
2024/09861	APPARATUS FOR IDENTIFYING A CABLE ON A MINE SITE	2024/12/19
2024/09862	WEAR INDICATOR	2024/12/19
2024/09873	ROBOTIC ARM WITH A SLIDING ACTUATOR AND AN END EFFECTOR ACTUATOR	2024/12/19
2024/09901	STAMINA IMPROVING DEVICE FOR SPORTS TRAINING	2024/12/20
2024/09902	LEG STRETCHING DEVICE FOR SPORTS TRAINING	2024/12/20
2024/09903	METAL-ORGANIC FRAMEWORK MOF-ZN FLUORESCENT SENSOR MATERIAL AND PREPARATION METHOD THEREOF	2024/12/20
2024/09904	POWER PLANT OF NEW ENERGY VEHICLE WITH HIGH-EFFICIENCY SHOCK ABSORPTION	2024/12/20
2024/09905	EARLY WARNING AND INTERVENTION SYSTEM FOR VASCULAR DISEASE	2024/12/20
2024/09906	MULTI-PARAMETER EVALUATION	2024/12/20

Application Number	Patent Title	Filing Date
	SYSTEM FOR VASCULAR HEALTH STATUS	
2024/09907	INTELLIGENT REGULATING AND CONTROL METHOD FOR DISSOLVED OXYGEN OF AEROBIC TANK	2024/12/20
2024/09909	A DUNG-CLEARING ROBOT WITH ADAPTIVR DUNG CHANNEL QIDENING FUNCTION FOR LIVESTOCK ANG POULYRY HOUSE	2024/12/20
2024/09910	STIRRING PADDLE AND STIRRING DEVICE FOR MAKING LITHIUM ION BATTERY	2024/12/20
2024/09911	APPLICATION OF COMPOUND MICROBIAL AGENT IN PREPARING PIG FEED ADDITIVES	2024/12/20
2024/09912	GRINDER ARRANGEMENT	2024/12/20
2024/09921	MILK POWDER SHELF LIFE PREDICTION METHOD BASED ON NEURAL NETWORK	2024/12/20
2024/09922	APPLICATION OF TASMD3 GENE IN IMPROVING DROUGHT RESISTANCE OF WHEAT	2024/12/20
2024/09927	MAGNETIC FIELD SENSOR	2024/12/20
2024/09937	A COAL MINE UNDERGROUND GAS CONTROL DETECTION DEVICE	2024/12/20
2024/09963	CIVIL ENGINEERING CONSTRUCTION WASTE TREATMENT DEVICE	2024/12/23
2024/09964	REUSABLE UNDERGROUND FAST HOLE SEALING PRESSURE MEASURING DEVICE	2024/12/23
2024/09965	STABLE REPAIRING DEVICE AND METHOD FOR TRENCHLESS UNDERGROUND DRAINAGE PIPELINE	2024/12/23
2024/09966	EXHAUST HEAT ENERGY UTILIZATION DEVICE FOR RECREATIONAL VEHICLE	2024/12/23
2024/09967	MULTIFUNCTIONAL 3D-PRINTED RODENTS BATCH FIXATION DEVICE	2024/12/23
2024/09968	THE INVENTION RELATES TO AN EFFICIENT PHOTOVOLTAIC ATMOSPHERIC WATER IRRIGATION SYSTEM	2024/12/23
2024/09969	THE INVENTION RELATES TO A METHOD FOR SEPARATING THE KNEAD JUICE OF SORGHUM STALK AND PREPARING CARBON FIBER	2024/12/23
2024/09970	AUTOMATIC DRINKING WATER DEVICE FOR BEEF CATTLE BREEDING	2024/12/23
2024/09971	AUTOMATIC BOTTOM CLEANING DEVICE	2024/12/23
2024/09976	SYSTEM OF SUSTAINABLE INVESTMENT MODELS INTEGRATING BUSINESS LAW FOR GREEN FINANCE	2024/12/23
2024/09977	AN ISOLATION NOISE REDUCTION DEVICE FOR CONSTRUCTION PROJECT	2024/12/23

Application Number	Patent Title	Filing Date
	MANAGEMENT	
2024/09978	MOBILE INFUSION VEHICLE FOR CHILDREN	2024/12/23
2024/09979	SINGELE NUCLEOTIDE POLYMORPHISM MARKER FOR SEX DETERMINATION OF LITSEA CUBEBA AND SCRENNING METHOD THEREFOR	2024/12/23
2024/09980	CUTTING AND POLISHING COMPOSITE PROCESSING METHOD AND PROCESS SUITABLE FOR POLYCRYSTALLINE SILICON	2024/12/23
2024/09981	A BLOCKCHAIN-BASED SYSTEM FOR SECURE MEDICAL DATA TRANSMISSION	2024/12/23
2024/09982	A SAND SCREENING DEVICE FOR CONSTRUCTION ENGINEERING	2024/12/23
2024/09983	AUTOMATIC ASSEMBLY DEVICE FOR CIRCUIT BOARDS	2024/12/23
2024/09984	DATA CONFIGURATION METHOD FOR RAIL TRANSIT SIGNAL CONTROL SYSTEM	2024/12/23
2024/09985	CHERRY SEED SHELL BREAKING TOOL FOR TAKING KERNELS WITH NO DAMAGE	2024/12/23
2024/09986	SIMULATION CONTROL METHOD FOR RAIL TRANSIT MOVING BLOCK SIGNALS	2024/12/23
2024/09987	METHOD FOR GENERATING HAIR DRYER STRUCTURE	2024/12/23
2024/10023	FUNGICIDAL COMPOSITIONS AND USES THEREOF IN PREVENTION AND TREATMENT OF FUSARIUM DISEASES OF CROPS	2024/12/23
2024/10024	CASE PACKING APPARATUS FOR PACKAGE	2024/12/23
2025/00013	LARGE BRANCH HARVESTING AND PLANTING METHOD FOR ZANTHOXYLUM SCHINIFOLIUM	2025/01/02
2025/00014	MICROINJECTION CONTROL SYSTEM FOR INTRACRANIAL STEREOTACTIC INJECTION OF STEM CELLS INTO SD RATS	2025/01/02
2025/00015	CATIONIC COVALENT ORGANIC FRAMEWORK MATERIAL CAPABLE OF ADSORBING FLUOROQUINOLONES ANTIBIOTICS, AND PREPARATION METHOD AND APPLICATION THEREOF	2025/01/02
2025/00016	METHOD AND SYSTEM FOR EVALUATING FRUIT TREE RESOURCES BASED ON VISION AND SPECTRUM	2025/01/02
2025/00017	COOLING DEVICE FOR QUENCHING HEAT TREATMENT OF ALLOY STEEL AND ITS USE METHOD	2025/01/02
2025/00018	FATIGUE LIFE TESTING DEVICE FOR	2025/01/02

Application Number	Patent Title	Filing Date
	ROTATING MACHINERY STRUCTURE	
2025/00019	WILD EDIBLE FUNGI PRODUCTION CULTURE TANK	2025/01/02
2025/00020	METHOD FOR GENETIC TRANSFORMATION OF QUERCUS VARIABILIS MEDIATED BY AGROBACTERIUM RHIZOGENES	2025/01/02
2025/00021	GROUND PRESSURE AND HEIGHT SELF-ADAPTIVE TRACKED MECHANISM	2025/01/02
2025/00022	IN VITRO CULTURE METHOD FOR ROOTS OF ZOSTERA MARINA L.	2025/01/02
2025/00023	FUSION ANALYSIS METHOD FOR SYMMETRY OF FLOW FIELD	2025/01/02
2025/00025	METHOD FOR IMPROVING WEAR RESISTANCE OF TITANIUM ALLOY PART	2025/01/02
2025/00026	ART DISPLAY FRAME	2025/01/02
2025/00027	EFFICIENT GREEN HEATING WATER HEATER SYSTEM BASED ON THE SYNERGISTIC DRIVE OF SOLAR ENERGY AND BIOGAS	2025/01/02
2025/00028	A CEREBROVASCULAR INTERVENTIONAL PUNCTURE POSITIONING DEVICE	2025/01/02
2025/00029	THORACENTESIS POSITIONING DEVICE IN RESPIRATORY MEDICINE DEPARTMENT	2025/01/02
2025/00030	A COLLECTING DEVICE FOR FLOATING SLUDGE EDGE-COLLECTING IN A SEWAGE TREATMENT TANK	2025/01/02
2025/00031	LAKE INLET COMPOSITE WETLAND POLLUTANT FILTRATION AND REMOVAL DEVICE AND METHOD	2025/01/02
2025/00033	WASTE LIQUID TREATMENT DEVICE FOR HOSPITAL INSPECTION	2025/01/02
2025/00034	CNC MACHINING WASTE RECYCLING DEVICE WITH SCREENING STRUCTURE	2025/01/02
2025/00035	EUCOMMIA ULMOIDES LEAF POWDER CAKE AND PREPARATION METHOD THEREOF	2025/01/02
2025/00036	EFFECTIVE METHOD FOR REDUCTION, HARMLESSNESS, AND RECYCLING UTILIZATION OF SLUDGE	2025/01/02
2025/00037	PRESSURE CONTROL-BASED ABRASIVE WATER JET DRILLING AND SLOTTING INTEGRATED DEVICE	2025/01/02
2025/00038	SCENE DISPLAY DEVICE FOR TOURISM	2025/01/02
2025/00039	CELLULOSE-DEGRADING COMPOUND MICROBIAL FLORA PREPARATION AND ITS APPLICATION IN STRAW DEGRADATION	2025/01/02
2025/00040	SINGLE EXPOSURE SUPER-RESOLUTION IMAGING METHOD AND	2025/01/02

Application Number	Patent Title	Filing Date
	DEVICE BASED ON STRUCTURED LIGHT AND DEEP LEARNING	
2025/00041	DEVICE FOR ENGLISH TRANSLATION PRACTICE	2025/01/02
2025/00042	AUXILIARY DRAINAGE DEVICE FOR WATER PREVENTION AND CONTROL IN COAL MINE CONSTRUCTION AND DRAINAGE METHOD THEREFOR	2025/01/02
2025/00043	PROTECTIVE STRUCTURE FOR A TOURIST SIGHTSEEING VEHICLE	2025/01/02
2025/00044	COMBINED PALEONTOLOGICAL IDENTIFICATION METHOD FOR PALEO-WATER DEPTH	2025/01/02
2025/00045	JACKET-TYPE MOBILE DIFFERENTIAL PRESSURE PRECOOLING APPARATUS FOR FRUIT AND VEGETABLES	2025/01/02
2025/00046	PHARMACEUTICAL MOLECULE KNOWLEDGE INTERACTION SYSTEM BASED ON KNOWLEDGE BASE AND LARGE LANGUAGE MODEL	2025/01/02
2025/00047	A PREPARATION METHOD OF BORON NANOMETER MATERIAL	2025/01/02
2025/00048	MULTIFUNCTIONAL SHELF	2025/01/02
2025/00049	EXPERIMENTAL EQUIPMENT FOR MEASURING ROCK MECHANICAL PROPERTIES	2025/01/02
2025/00050	SYSTEM AND METHOD OF LARGE-SCALE BREEDING OF USSURI CISCO FRIES	2025/01/02
2025/00052	A MULTI-AXLE COOPERATIVE STEERING DEVICE APPLIED TO NEW ENERGY VEHICLES	2025/01/02
2025/00053	WATER AND SOIL CONSERVATION CONTINUOUS SAMPLE DEVICE	2025/01/02
2025/00054	COLUMN AIR CATHODE BIOMASS FUEL CELL AND PREPARATION METHOD THEREOF	2025/01/02
2025/00056	FLOOD CONTROL WATER CONSERVANCY DAM AND AUXILIARY CONSTRUCTION DEVICE THEREFOR	2025/01/02
2025/00057	CONTROL DEVICE FOR HONEY COLLECTION OF CAMELLIA OLEIFERA POLLINATION BEES	2025/01/02
2025/00058	A HIGH PERFORMANCE REDUCED GRAPHENE OXIDE/CARBON FIBER POSITIVE MATERIAL AND APPLICATION THEREOF IN ALUMINUM BATTERIES	2025/01/02
2025/00059	ORGANIC POLLUTANT ADSORPTION AND FILTRATION DEVICE FOR AQUATIC VEGETABLE FLOATING ISLAND WETLAND	2025/01/02
2025/00060	AUTOMATIC CURTAIN	2025/01/02

Application Number	Patent Title	Filing Date
2025/00061	BALL MILLING DEVICE FOR PRECIOUS METAL CATALYST	2025/01/02
2025/00062	WASTE RECYCLING APPARATUS USED IN PRODUCTION OF SOLAR CELL PANEL COMPONENTS	2025/01/02
2025/00063	FLAT GRANULE BEDDING MATERIAL AND PREPARATION METHOD AND USE THEREOF	2025/01/02
2025/00064	AUXILIARY READING APPARATUS FOR LEARNING ETHICS FROM BILINGUAL CHILDREN'S LITERATURE	2025/01/02
2025/00065	TAIL GAS TREATMENT DEVICE USED IN PRODUCTION OF LOW-MERCURY CATALYST	2025/01/02
2025/00066	EFFICIENT AND ENVIRONMENT-FRIENDLY DISTILLATION PRODUCTION DEVICE FOR RECLAIMING MERCURY BY TREATING WASTE MERCURY CATALYST	2025/01/02
2025/00067	PUNCTURE ROBOT AND PUNCTURE SYSTEM FOR COLLABORATIVE DELIVERY OF GUIDEWIRE AND CATHETER, AND CONTROL METHOD	2025/01/02
2025/00068	DIGITAL SEAL DEVICE HAVING CAPABILITY OF LOCALIZED NOTARIZATION	2025/01/02
2025/00069	COOLING BED AND METHOD FOR IMPROVING STRAIGHTNESS OF HOT-ROLLED METALLIC ROUND BAR	2025/01/02
2025/00070	MODIFIED MANGANESE-BASED CATHODE MATERIAL, PREPARATION METHOD AND APPLICATIONS THEREOF	2025/01/02
2025/00071	METHOD AND SYSTEM FOR ESTIMATING AND VERIFYING FUEL QUANTITY OF SHIP	2025/01/02
2025/00072	METHOD FOR PREPARING SPINEL MANGANESE-BASED CATHODE MATERIAL WITH MOLTEN SALT ASSISTANCE	2025/01/02
2025/00073	PREPARATION METHOD FOR OPTIMIZING INTERFACE OF CATHODE MATERIAL FOR LITHIUM-ION BATTERIES WITH SOLVATION METHOD	2025/01/02
2025/00074	SCRAPER CONVEYING DEVICE FOR MINING	2025/01/02
2025/00075	METHOD FOR ALKALINE LEACHING OF SODIUM HYPOCHLORITE OXIDATION AND PHOSPHATE SYNCHRONOUSLY FROM LOW-GRADE TUNGSTEN-MOLYBDENUM ORE	2025/01/02
2025/00078	AN E-COMMERCE LIVE BROADCAST MULTI-DIRECTIONAL DISPLAY DEVICE	2025/01/02
2025/00080	A PUBLICITY PLATFORM FOR	2025/01/02

Application Number	Patent Title	Filing Date
	IDEOLOGICAL AND POLITICAL EDUCATION	
2025/00081	LITHIUM-SULFUR BATTERY AND PREPARATION METHOD THEREOF	2025/01/02
2025/00082	CENTELLA ASIATICA LYSOZYME GEL RICH IN PLEUROTUS DIAMOR FRUITING BODY POLYPEPTIDE AND PREPARATION METHOD THEREOF	2025/01/02
2025/00083	FLOATING MUD DETECTION AND SAMPLING DEVICE AND SAMPLING METHOD	2025/01/02
2025/00084	CARBON-BASED POSITIVE ELECTRODE MATERIAL AND APPLICATION THEREOF IN ALUMINUM BATTERIES	2025/01/02
2025/00085	ENVIRONMENTAL SAMPLE STORAGE DEVICE WITH LABEL PROTECTION AND WHOLE PROCESS INFORMATION RECORDING FUNCTION	2025/01/02
2025/00086	MOLECULAR METHOD FOR IDENTIFYING MUSCLE FIBERS BY USING MIRNA OF SKM-EXOS	2025/01/02
2025/00087	RESEARCH METHOD FOR SKM-EXOS THAT PROMOTE PROLIFERATION AND DIFFERENTIATION OF MYOBLASTS	2025/01/02
2025/00089	METHOD FOR AUTONOMOUSLY REGULATING LIMB MOVEMENT THROUGH EMG-SIGNALS OF FACIAL MUSCLE ACTION	2025/01/02
2025/00090	COMPOUND CONTAINING PYRAZOLE STRUCTURE, APPLICATION, AND INSECTICIDE	2025/01/02
2025/00092	SMART HOME CONTROL SYSTEM BASED ON BIG DATA	2025/01/02
2025/00093	SPACE-BASED SOLAR POWER SYSTEM	2025/01/02
2025/00094	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING ANEMIA, PREPARATION METHOD THEREFOR, AND FORMULATION THEREOF	2025/01/02
2025/00097	POWER DATA CENTER MANAGEMENT SYSTEM AND ITS MANAGEMENT METHOD	2025/01/02
2025/00098	BIG DATA-BASED INFORMATION ACQUISITION SYSTEM FOR SOFTWARE DEVELOPMENT	2025/01/02
2025/00119	BS ARCHITECTURE-BASED TRANSMISSION LINE CLOUD DESIGN METHOD AND SYSTEM	2025/01/02
2025/00126	PROCESSING TECHNOLOGY FOR RADIX ACONITI KUSNEZOFFII MEDICINAL MATERIAL	2025/01/03
2025/00129	LUBRICATION STATE DETERMINATION METHOD BASED ON CURVE SIMILARITY	2025/01/03

Application Number	Patent Title	Filing Date
	AND COMPUTER STORAGE MEDIUM	
2025/00138	AUXILIARY SUPPORT FRAME FOR MEDICAL ANESTHESIA	2025/01/03
2025/00139	SUBSTATION PILE FOUNDATION UPLIFT LOAD CALCULATION METHOD, COMPUTER DEVICE, AND COMPUTER READABLE STORAGE MEDIUM	2025/01/03
2025/00141	PREPARATION OF SOLID LIPID NANOPARTICLES FOR ENHANCED CELECOXIB DRUG DELIVERY	2025/01/03
2025/00160	METHOD FOR SAFE UTILIZATION OF HG/CD CO-CONTAMINATED PADDY FIELDS	2025/01/03
2025/00164	DYNAMIC PREDICTION METHOD FOR FLIGHT DEPARTURE TIME, DYNAMIC PREDICTION SYSTEM FOR FLIGHT DEPARTURE TIME AND STORAGE MEDIUM	2025/01/06
2025/00165	BIOLOGICALLY FERMENTED FEED FOR BEEF CATTLE MADE FROM AURICULARIA AURICULA SPENT MUSHROOM SUBSTRATE	2025/01/06
2025/00166	METHOD FOR INHIBITING VIGOROUS GROWTH OF SUMMER SHOOTS OF POMELO FRUIT TREES	2025/01/06
2025/00168	ASSISTANCE SYSTEM FOR PSYCHOLOGICAL GUIDANCE IN FAMILY EDUCATION	2025/01/06
2025/00171	MOTION ARRESTER	2025/01/06
2025/00176	BUILDING DIMENSION MEASURING DEVICE	2025/01/06
2025/00180	DESIGN AND DEVELOPMENT OF METOPROLOL SUSTAINED RELEASE FORMULATIONS RESISTANT TO ALCOHOL INDUCED DOSE DUMPING	2025/01/06
2025/00205	PROTOPORPHYRINOGEN OXIDASE (PPO) RESISTANCE PLANT	2025/01/06
2025/00211	TEST SIMULATION DEVICE AND METHOD FOR POLLUTION IMPACTS OF SOLID WASTE CONTAINING HEAVY METALS	2025/01/07
2025/00212	TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING INFANTILE PNEUMONIA AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF	2025/01/07
2025/00213	METHOD FOR IMPROVING YIELD AND QUALITY OF EGGPLANT SEED PRODUCTION	2025/01/07
2025/00215	FRUIT SIZE SORTING MACHINE	2025/01/07
2025/00223	APPARATUS FOR CLEANING SURFACE OF ELECTRONIC CIRCUIT BOARD	2025/01/07

Application Number	Patent Title	Filing Date
	BASED ON PRINCIPLE OF ELECTROSTATIC ADSORPTION	
2025/00227	AUTOMATIC WELDING EQUIPMENT FOR STAINLESS STEEL PIPE	2025/01/07
2025/00228	SOIL CONDITIONER FOR ENHANCING MICROECOLOGICAL BALANCE OF THE SOIL AND A PREPARATION METHOD THEREOF	2025/01/07
2025/00230	INTELLIGENT TRANSPORTATION SYSTEM BASED ON BIG DATA	2025/01/07
2025/00231	TEST METHOD FOR EFFECTS OF TEA POLYPHENOLS ON GEL PROPERTIES OF TILAPIA SURIMI	2025/01/07
2025/00232	SYSTEM FOR ENTERPRISE INTERNAL ECONOMIC MANAGEMENT COST CONTROL	2025/01/07
2025/00233	ROTATING MACHINERY AND CONTROL METHOD THEREFOR	2025/01/07
2025/00234	TERMINAL INTELLIGENT CONTROL PLATFORM FOR COMPUTER POWER	2025/01/07
2025/00254	LANE-LEVEL SAFETY WARNING SYSTEM AND METHOD BASED ON INTELLIGENT SPIKE	2025/01/07
2025/00255	MOBILE MONITORING SYSTEM SUITABLE FOR EXPRESSWAY	2025/01/07
2025/00263	PLANT-SOURCED INSECTICIDE AND PREPARATION METHOD AND APPLICATION THEREOF	2025/01/08
2025/00264	EXPLORATION METHOD FOR TIN-BERYLLIUM ORE	2025/01/08
2025/00268	IMPROVED IMMUNOGENIC COMPOSITIONS AGAINST ENTERIC DISEASES AND METHODS FOR ITS PREPARATION THEREOF	2025/01/08
2025/00269	MILDEW-REMOVING AGENT WITH WALNUT SHELL FOR FEED, PREPARATION METHOD AND APPLICATIONS THEREOF, AND METHOD FOR REMOVING MILDEW FROM FEED	2025/01/08
2025/00270	UNDERGROUND PIPELINE MEASURING METHOD	2025/01/08
2025/00277	NANO FLUORESCENT LATEX PIGMENT WITH HIGH FLUORESCENCE INTENSITY AND HIGH STABILITY AND PREPARATION METHOD THEREFOR	2025/01/08
2025/00307	APPLICATION OF SPINE GRAPE (VITIS DAVIDII FOEX) WINE PHENOLS IN PREPARATION OF ANTIOXIDANT AND CANCER CELL PROLIFERATION RESISTANT HEALTH CARE PRODUCTS	2025/01/09
2025/00308	A DUST SUPPRESSION DEVICE FOR CONSTRUCTION ENGINEERING	2025/01/09

Application Number	Patent Title	Filing Date
2025/00311	A MODULAR DESIGN CONTROL SYSTEM FOR AN ELECTRIC CABINET	2025/01/09
2025/00312	PSEUDOMONAS STUTZERI, MICROBIAL AGENT AND APPLICATION	2025/01/09
2025/00313	METHOD AND SYSTEM FOR EVALUATING SERVICE QUALITY IN PUBLIC PLACES BASED ON MULTIMODAL FUSION	2025/01/09
2025/00316	COMPOSITE ECOLOGICAL BREEDING METHOD OF RIVER CRAB, POLYODONSPATHALA AND VIVIPARIDAE	2025/01/09
2025/00317	PALLET	2025/01/09
2025/00324	CONSISTENT-COVERAGE ORIENTED AP DEPLOYMENT OPTIMIZATION IN CELL FREE AND LEGACY COEXISTENCE NETWORK	2025/01/09
2025/00325	ANCHORED CABLE RETAINING WALL STRUCTURE WITH COMBINED TENSION AND COMPRESSION	2025/01/09
2025/00326	A TRAFFIC DEMAND-ORIENTED DEPLOYMENT METHOD FOR ACCESS POINTS IN CELL-FREE MASSIVE MIMO NETWORKS	2025/01/09
2025/00327	WIRELESS INTELLIGENT BRAIN WAVE MONITORING DEVICE FOR SMALL ANIMALS	2025/01/09
2025/00353	CONTAINER AND METHOD OF ERECTING A CONTAINER	2025/01/10
2025/00354	ANTIBODY RESISTANT TO BOTRYTIS CINEREA RPL1 PROTEIN AND APPLICATION	2025/01/10
2025/00355	ANTIBODY FOR RESISTANT PHYTOPHTHORA HIBERNALIS ATP1 PROTEIN AND APPLICATION THEREOF	2025/01/10
2025/00356	AUTOMATIC TORSION ADJUSTING SYSTEM FOR PIPE BELT CONVEYOR	2025/01/10
2025/00357	AUTOMATIC CLEANING AND RECYCLING DEVICE FOR MINE SCRAPER CONVEYOR	2025/01/10
2025/00358	APPARATUS AND METHOD FOR REMOVING TORSION FAULT OF CONVEYOR BELT OF PIPE BELT CONVEYOR	2025/01/10
2025/00359	MULTIFOCAL ULTRA-THIN LENS WITHOUT POLARIZATION DEPENDENCE	2025/01/10
2025/00360	QUANTITATIVE METHOD FOR ASSESSING CRITICAL STATE OF SEDIMENT SUSPENSION IN VEGETATED WATER BODIES	2025/01/10
2025/00361	NURSERY OPERATION METHOD FOR GRAFTING AND BREEDING OF CASTANOPSIS HYSTRIX SUPERIOR	2025/01/10

Application Number	Patent Title	Filing Date
	TREES	
2025/00362	METHOD AND INTELLIGENT SYSTEM FOR CONTROLLING FILLING RANGE AND SLOPE FORM USING GEOSPATIAL POSITIONING	2025/01/10
2025/00366	METHOD FOR IMPROVING QUALITY OF TOMATO FRUITS	2025/01/10
2025/00368	A BRAKING DEVICE FOR CONTROLLING A THREE-PHASE MOTOR	2025/01/10
2025/00369	AN OPERATING TABLE WITH ADJUSTABLE ANGLES	2025/01/10
2025/00370	MODIFIED ACTIVATED CARBON, PREPARATION METHOD AND USE THEREOF	2025/01/10
2025/00371	A TROLLEY FOR LABORATORY MANAGEMENT	2025/01/10
2025/00372	AN AI-DRIVEN ETHICAL GOVERNANCE SYSTEM AND METHOD FOR UNIFIED CYBER THREAT INTELLIGENCE AND DIGITAL FORENSICS INCIDENT RESPONSE	2025/01/10
2025/00373	VOLTAGE MONITORING ARRANGEMENT FOR AN ELECTRIC CELL STACK, PARTICULARLY FOR A FUEL CELL STACK	2025/01/10
2025/00375	VOLTAGE MONITORING ARRANGEMENT FOR AN ELECTRIC CELL STACK, PARTICULARLY FOR A FUEL CELL STACK	2025/01/10
2025/00377	AN INSTANTLY DISSOLVABLE JAGGERY CUBE AND A METHOD OF PREPARATION THEREOF	2025/01/10
2025/00392	DCE-MRI IMAGE GENERATION METHOD AND RELATED APPARATUS	2025/01/13
2025/00393	NITROGEN-DOPED BIOCHAR COMPOSITE MATERIAL, ELECTROCHEMICAL WORKING ELECTRODE AND PREPARATION METHOD AND APPLICATION THEREOF	2025/01/13
2025/00395	MAIN PLANT LAYOUT DEVICE FOR THERMAL POWER PLANTS	2025/01/13
2025/00397	ROAD AND BRIDGE CONSTRUCTION PROTECTION SYSTEM	2025/01/13
2025/00398	ANIMAL FEEDING DEVICE	2025/01/13
2025/00399	MIXING AND STIRRING APPARATUS FOR SOLIDIFYING SOIL	2025/01/13
2025/00400	REMOTE GEOTECHNICAL DANGER REMOVAL APPARATUS FOR TUNNEL CONSTRUCTION	2025/01/13
2025/00401	PHYSICAL FITNESS DEVICE FOR TRAINING SPORTS STUDENTS	2025/01/13
2025/00403	A COMPOUND COMPOSITION FOR	2025/01/13

Application Number	Patent Title	Filing Date
	SUPPRESSING COAL DUST, A DUST REMOVAL ACTIVE AGENT AND ITS APPLICATION	
2025/00405	A SYSTEM AND METHOD FOR CHARGING ELECTRICAL VEHICLE IN A MULTI-STOREY PARKING SETUP	2025/01/13
2025/00407	FUEL CELL STACK	2025/01/13
2025/00408	FUEL CELL STACK	2025/01/13
2025/03709	HIGH-EFFICIENCY HEAT DISSIPATION PROCESSING DEVICE FOR PERMANENT MAGNET SYNCHRONOUS MOTORS	2025/04/30
2025/03736	SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT	2025/05/02
2025/03737	SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT	2025/05/02
2025/03738	DEVICE FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT	2025/05/02
2025/03739	SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT	2025/05/02
2025/03740	SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT	2025/05/02
2025/03741	METHOD FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT	2025/05/02
2025/03742	DEVICE FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT	2025/05/02
2025/03743	SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT	2025/05/02
2025/03744	SYSTEM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT	2025/05/02
2025/03745	MACHINE READABLE MEDIUM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT	2025/05/02
2025/04256	EASILY MOVABLE COMPACT SHELVING	2025/05/19

Application Number	Patent Title	Filing Date
2025/04425	MACHINE READABLE MEDIUM FOR TRANSFORMING A STRUCTURED DATA ARRAY CONTAINING INFORMATION OBJECTS OF A DIGITALIZED DOCUMENT	2025/05/26
2025/04606	UNIT STRUCTURE SUITABLE FOR COMPLEX CURVED SURFACE MODELING SPACE	2025/05/29
2025/04616	DATA PROCESSING AND VISUALIZATION METHOD, APPARATUS, MEDIUM AND DEVICE	2025/05/29
2025/04805	A METHOD FOR EFFICIENTLY REDUCING THE MERCURY CONTENT IN THE PREGNANT SOLUTION OF THE GOLD SMELTING WATER SYSTEM	2025/06/05
2025/04806	GENOMIC PREDICTION METHOD AND APPARATUS BASED ON GENOTYPE-ENVIRONMENT INTERACTION HETEROGENEOUS GRAPH	2025/06/05
2025/04936	PYROLYSIS DEVICE FOR AUTOMATIC PLASMA EFFECT GENERATOR	2025/06/10
2025/04937	INSTANT DRYING DEVICE FOR COLD PRESSING OF METAL POWDER SLURRY FROM RECYCLABLE WASTE LIQUID	2025/06/10
2025/04970	METHOD FOR FORMING THERMOPLASTIC COMPOSITE MAIN BEAM AND WIND TURBINE BLADE MAIN BEAM	2025/06/11
2025/05071	CTD SENSOR AND MANUFACTURING METHOD THEREOF	2025/06/17
2025/05082	JELLYFISH ROBOT WITH FOLDABLE BELL-SHAPED FIN STRUCTURE	2025/06/17
2025/05093	A PAVEMENT STRUCTURE DEPTH DETECTION DEVICE AND ITS DETECTION METHOD	2025/06/17
2025/05098	WIND TURBINE BLADE, AND MANUFACTURING APPARATUS AND FORMING METHOD THEREFOR	2025/06/17
2025/05113	CROCUS SATIVUS-DERIVED CSCCD2 MUTANT, GENE AND USE, AND RECOMBINANT MODEL ORGANISM PRODUCING CROCETIN	2025/06/17
2025/05211	A COOLING METHOD FOR VERTICAL ELECTRIC SPINDLE	2025/06/19
2025/05441	SECURE COMMUNICATION METHOD AND APPARATUS BASED ON MULTIPLE BLIND SIGNATURES	2025/06/25
2025/05576	A NON-ORIENTED ELECTRICAL STEEL AND A METHOD OF MANUFACTURING NON-ORIENTED ELECTRICAL STEEL THEREOF	2025/06/30
2025/05720	PATCHOULI ALCOHOL, PATCHOULI ALCOHOL COMPOUND ANTIMALARIAL	2025/07/04

Application Number	Patent Title	Filing Date
	COMPOSITION, AND USE IN PREPARATION OF ANTI-PLASMODIAL DRUG	
2025/05838	MINING BACKFILL CURING ENVIRONMENT SIMULATION TESTER AND METHOD THEREFOR	2025/07/09
2025/05848	A PASSIVE WING DEFLECTION FLAPPING-WING AIRCRAFT	2025/07/09
2025/05849	ACTIVE DEPLOYMENT AND PASSIVE RETRACTION FLAPPING-WING AIRCRAFT	2025/07/09
2025/05909	INTEGRATED RUNNER PLATE AND ELECTRIC PILE OF FLOW BATTERY	2025/07/10
2025/06039	MULTI-SOURCE DATA FUSION-BASED SPATIAL PERCEPTION DATA STORAGE METHOD AND SYSTEM	2025/07/16

DESIGNS

Advertisement List for July 2025

Number of Advertised Designs: 130

Application Number	Design Articles	Filing Date
A2023/00118	AUTOMOBILES	2023/01/26
A2023/00119	KEYS	2023/01/26
A2023/01391	A CONTAINER	2023/12/12
A2024/00075	EVENING BAG	2024/01/02
A2024/00076	CLAPS	2024/01/02
A2024/00115	A BED	2024/01/30
A2024/00291	STYLETS FOR URINARY PLACEMENT CATHETERS	2024/03/22
A2024/00292	HANDLES OF STYLETS FOR URINARY PLACEMENT CATHETERS	2024/03/22
A2024/00293	STYLETS OF INDEFINITE LENGTH FOR URINARY PLACEMENT CATHETERS	2024/03/22
A2024/00344	BOTTLE HOLDER	2024/04/08
A2024/00400	COLOUR MIXING AND BLENDING MACHINE.	2024/04/26
A2024/00401	COLOUR MIXING AND BLENDING MACHINE.	2024/04/26
A2024/00416	MEDICAL DEVICES	2024/05/02
A2024/00417	MEDICAL DEVICES	2024/05/02
A2024/00418	MEDICAL DEVICES	2024/05/02
A2024/00419	MEDICAL DEVICES	2024/05/02
A2024/00425	LABELS	2024/05/06

Application Number	Design Articles	Filing Date
A2024/00426	LABELS	2024/05/06
A2024/00427	LABELS	2024/05/06
A2024/00428	LABELS	2024/05/06
A2024/00429	LABELS	2024/05/06
A2024/00430	LABELS	2024/05/06
A2024/00431	LABELS	2024/05/06
A2024/00432	LABELS	2024/05/06
A2024/00448	Container or Beverage Maker	2024/05/10
A2024/00449	Container or Beverage Maker	2024/05/10
A2024/00450	Container or Beverage Maker	2024/05/10
A2024/00451	Container or Beverage Maker	2024/05/10
A2024/00452	Container or Beverage Maker	2024/05/10
A2024/00834	BASKET FOR AIR FRYER	2024/08/27
A2024/00959	Front Portion for an Automobile	2024/09/26
A2024/00998	HAND SHOWER	2024/10/02
A2024/00999	HAIR FASTENER	2024/10/02
A2024/01001	PATTERN	2024/10/02
A2024/01004	CUSHION	2024/10/03
A2024/01006	CAR	2024/10/04
A2024/01014	Lid	2024/10/07
A2024/01026	Vial Packaging	2024/10/09
A2024/01027	Logo	2024/10/09
A2024/01028	AUTOMOBILES	2024/10/09
A2024/01029	AUTOMOBILES	2024/10/09
A2024/01041	COFFEE MACHINES	2024/10/10
A2024/01044	A Dispenser	2024/10/11
A2024/01046	AUTOMOBILES	2024/10/11
A2024/01047	OVENS	2024/10/11
A2024/01048	AUTOMOBILES	2024/10/11
A2024/01049	OVENS	2024/10/11
A2024/01060	Bottle	2024/10/15
A2024/01061	Bottle	2024/10/15
A2024/01062	WATCH	2024/10/16
A2024/01063	WATCH	2024/10/16
A2024/01064	WATCH	2024/10/16
A2024/01065	WATCH	2024/10/16
A2024/01066	WATCH	2024/10/16
A2024/01067	WATCH	2024/10/16
A2024/01068	WATCH CASE	2024/10/16
A2024/01069	WATCH DIAL	2024/10/16
A2024/01070	WATCH CASE	2024/10/16
A2024/01071	WATCH CASE	2024/10/16
A2024/01072	WATCH DIAL	2024/10/16
A2024/01073	WATCH	2024/10/16
A2024/01074	MOVEMENT FOR CLOCKS AND WATCHES	2024/10/16
A2024/01076	BEVERAGE MACHINES	2024/10/10
A2024/01077	COFFEE MACHINES	2024/10/10
A2024/01079	SURFACE PATTERN	2024/10/16
A2024/01081	Insulating Container	2024/10/17

Application Number	Design Articles	Filing Date
A2024/01082	Insulating Container	2024/10/17
A2024/01083	Insulating Container	2024/10/17
A2024/01084	Case	2024/10/17
A2024/01085	Set of Earphones	2024/10/17
A2024/01088	INSULATED CONTAINER FOR A SHOPPING CART	2024/10/18
A2024/01090	Watch Dial and Bezel	2024/10/18
A2024/01097	IRRIGATION CONTROLLERS	2024/10/23
A2024/01099	VEHICLES	2024/10/23
A2024/01100	IRRIGATION CONTROLLERS	2024/10/23
A2024/01101	IRRIGATION CONTROLLERS	2024/10/23
A2024/01102	MODEL VEHICLES	2024/10/23
A2024/01105	Motorcycle	2024/10/23
A2024/01109	AUTOMOBILES	2024/10/25
A2024/01114	PACKAGING	2024/10/28
A2024/01116	TROLLEY	2024/10/28
A2024/01135	HAIR CLIP WITH SIDE BINDING	2024/11/05
A2024/01160	A SERVING PADDLE	2024/11/18
A2024/01161	A SERVING PADDLE	2024/11/18
A2024/01174	SEQUENCING INSTRUMENT	2024/11/20
A2024/01175	SEQUENCING INSTRUMENT	2024/11/20
A2024/01177	A BOTTLE	2024/11/21
A2024/01179	ENCLOSURE FOR EQUIPMENT FOR PRODUCTION, DISTRIBUTION OR TRANSFORMATION OF ELECTRICITY	2024/11/21
A2024/01185	BLIND SYSTEM FOR WINDOW AND/OR DOOR	2024/11/22
A2024/01186	PROJECTION APPARATUS	2024/11/22
A2024/01196	STORAGE CASSETTE HOUSING FOR DENTAL BUR PROFILES	2024/11/25
A2024/01198	INSERT LAYOUT FOR HOLDING DENTAL BUR PROFILES	2024/11/25
A2024/01220	A JOINT ASSEMBLY FOR CONNECTING SPLIT PIPES	2024/11/28
A2024/01271	ACCESSORY FOR AN INTRAVENOUS INFUSION SET	2024/12/09
A2024/01278	AEROSOL ACTUATOR	2024/12/09
A2025/00585	MATS FOR VEHICLES	2025/05/23
A2025/00599	MATS FOR VEHICLES	2025/05/23
F2023/01074	TRAILER	2023/10/04
F2024/00345	BOTTLE HOLDER	2024/04/08
F2024/00804	MODULAR BRACKETS	2024/08/12
F2024/00941	Curtain runners	2024/09/25
F2024/01002	SOLAR WATER HEATER	2024/10/03
F2024/01022	A SECURING DEVICE	2024/10/09
F2024/01023	A SECURING DEVICE	2024/10/09
F2024/01024	A SECURING DEVICE	2024/10/09
F2024/01025	A SECURING DEVICE	2024/10/09
F2024/01078	An Article Support	2024/10/16
F2024/01089	INSULATED CONTAINER FOR A	2024/10/18

Application Number	Design Articles	Filing Date
	SHOPPING CART	
F2024/01095	HIGH VOLTAGE COUPLER	2024/10/22
F2024/01108	MATTRESSES	2024/10/24
F2024/01117	TROLLEY	2024/10/28
F2024/01146	MOUNTING BRACKET	2024/11/11
F2024/01153	CARTRIDGE	2024/11/14
F2024/01158	SUN VISOR EXTENDER	2024/11/15
F2024/01159	TELESCOPIC SUN VISOR	2024/11/15
F2024/01178	A BOTTLE	2024/11/21
F2024/01183	MEDICAL SYRINGE	2024/11/21
F2024/01184	MEDICAL SYRINGE	2024/11/21
F2024/01187	PROJECTION APPARATUS	2024/11/22
F2024/01197	STORAGE CASSETTE HOUSING FOR DENTAL BUR PROFILES	2024/11/25
F2024/01200	CONNECTION BOX	2024/11/25
F2024/01201	ANTENNA	2024/11/25
F2024/01207	INSERT LAYOUT FOR HOLDING DENTAL BUR PROFILES	2024/11/25
F2024/01223	MATTRESSES	2024/11/28
F2024/01224	SPRING WAIST RINGS	2024/11/28
F2024/01266	A FRAME MEMBER FOR A WINDOW ASSEMBLY	2024/12/05
F2024/01267	A FRAME MEMBER FOR A WINDOW ASSEMBLY	2024/12/05
F2024/01272	AN ACCESSORY FOR AN INTRAVENOUS INFUSION SET	2024/12/09
F2024/01273	AEROSOL ACTUATOR	2024/12/09
F2025/00167	LAPTOP ADJUSTABLE BEDSIDE TABLE	2025/02/13