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INCLUDING TRADE MARKS, DESIGNS AND COPYRIGHT IN CINEMATOGRAPH FILMS

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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 2024/06/24 -

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2024/04947 ~ Complete ~54:BEVERAGE OR FOODSTUFF CONTAINER AND PREPARATION SYSTEM ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: GERBER, Gilles;MURPHY, Audrey Virginie;PAVAN, Chiara;VEENJE, Sandor Klaas~ 33:EP ~31:21211705.5 ~32:01/12/2021

2024/04944 ~ Complete ~54:A COMPONENT FOR A DELIVERY SYSTEM AND A METHOD AND APPARATUS FOR MANUFACTURING A COMPONENT FOR A DELIVERY SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: GRISHCHENKO, Andrei;HEPWORTH, Richard~ 33:GB ~31:2119092.1 ~32:29/12/2021

2024/04921 ~ Provisional ~54:CONTAINER AND PACKAGING OF A PRODUCT ~71:SERRA MANUFACTURING (PTY) LIMITED, 14 Lascelles Road, Meadowbrook, South Africa ~72: THOMAZ, Paulo Alberto Silva~

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2024/04920 ~ Provisional ~54:A WATER REMEDIATION SYSTEM ~71:AMBERSKIES TRADING CC, 9 Roger De Clerck Place, Mkondeni, Pietermaritzburg, 3201, SOUTH AFRICA, South Africa ~72: RUTHNAM, Deon;SMITH , Anthony~

2024/04940 ~ Complete ~54:COMPOSITIONS FOR PREVENTING OR TREATING SKIN AGING ~71:Estetra SRL, Rue Saint-Georges 5, LIÈGE 4000, BELGIUM, Belgium ~72: DION, Valérie;GERARD, Céline~ 33:EP ~31:21211056.3 ~32:29/11/2021

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2024/04953 ~ Complete ~54:COMPOSITION CONTAINING A MACROLIDE INSECTICIDAL COMPOUND AND POLYCATIONIC RHEOLOGY MODIFIER ~71:Adama Makhteshim Ltd., P. O. BOX 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: DAHAN, Yogev;FRIEDMAN, Jacob~ 33:US ~31:63/286,590 ~32:07/12/2021

2024/04931 ~ Complete ~54:PARTICLE COMPRISING A VIRUS ~71:UNIVERSITY OF BATH, Wessex House 3.8, Claverton Down, Bath, United Kingdom ~72: DOEKHIE, Aswin;SARTBAEVA, Asel;SLADE, Matthew;WELLS, Stephen~ 33:GB ~31:2201188.6 ~32:31/01/2022

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2024/04937 ~ Complete ~54:GREEN AMMONIA ABSORPTION COOLING ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: ANNETTE E KRØLL JENSEN;CHRISTIAN HENRIK SPETH;LARI BJERG KNUDSEN;PAT A HAN~ 33:EP ~31:22155183.1 ~32:04/02/2022

2024/04918 ~ Complete ~54:A VAPING DEVICE FOR DISPLAYING PROMOTIONAL CONTENT ~71:WV SQUARED (PTY) LTD, 5th Floor, Capital Hill Building, 6 Benmore Road, South Africa ~72: VAREJES, Trent;VERCUEIL, Ryan;WHITTAKER, Kevin~

2024/04943 ~ Complete ~54:A COMPONENT FOR A DELIVERY SYSTEM AND A METHOD FOR MANUFACTURING A COMPONENT FOR A DELIVERY SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: GRISHCHENKO, Andrei;HEPWORTH, Richard~ 33:GB ~31:2119094.7 ~32:29/12/2021

2024/04922 ~ Complete ~54:INTELLIGENT IDENTIFICATION METHOD OF VIBRO-REPLACEMENT GRAVEL PILE REINFORCED STRATUM ~71:China Institute of Water Resources and Hydropower Research, No. 20, Chegongzhuang West Road, Haidian District, Beijing, People's Republic of China ~72: CAO, Ruilang;JIANG, Long;LIANG, Hui;LIN, Xingchao;LIU, Biao;SUN, Ping;WANG, Wenbo;YAN, Chunli;YANG, Yongsen;ZHANG, Qiang;ZHANG, Yunpei;ZHAO, Yufei~ 33:CN ~31:2023108277469 ~32:06/07/2023

2024/04933 ~ Complete ~54:ARYLSULPHONAMIDE COMPOUNDS ~71:ANAXIS PHARMA PTY LTD, Bio21 Institute 30 Flemington Road Parkville, Victoria, 3052, Australia ~72: ANGUS COWAN;CAROLE ANNIE SCHUSTER-KLEIN;CHRISTOPHE POITEVIN;CHRISTOPHER GARDNER;GUILLAUME LAURENT LESSENE;JEAN-MARC DANIEL GARNIER;KATHERINE DAVIES;KERSTEN, Wilhelmus Johannes Antonius;MARTIN BRZOZOWSKI;PETER EDWARD CZABOTAR~ 33:AU ~31:2021904206 ~32:22/12/2021

2024/04950 ~ Complete ~54:HOLDER FOR COMBINATION INJECTOR AND SPRAY DEVICE ~71:pHi-Tech Animal Health Technologies Ltd., 2 Ha'Negev St., PO Box 1098, AIRPORT CITY 6101001, ISRAEL, Israel ~72: ASHASH, Udi;GOLDENBERG, Gershon~ 33:US ~31:63/294,309 ~32:28/12/2021

2024/04917 ~ Provisional ~54:SYSTEM AND METHOD FOR DYNAMIC TRUCK ALLOCATION AND DELIVERY MANAGEMENT BASED ON USER-SPECIFIED CRITERIA ~71:Brandon Mlotshwa, 3 Johanna Street, South Africa ~72: Brandon Mlotshwa~

2024/04919 ~ Provisional ~54:A SECURING DEVICE ~71:BOS, Tyron, 5 ALEXANDER MEWS, 234 HAROLD KITSON CRESCENT, GARSFONTEIN, PRETORIA, 0081, SOUTH AFRICA, South Africa ~72: BOS, Tyron~

2024/04927 ~ Complete ~54:HUMAN METAPNEUMOVIRUS VACCINES ~71:SANOFI PASTEUR INC., 1 Discovery Drive, Swiftwater, United States of America ~72: ALAMARES-SAPUAY, Judith;ANOSOVA,

Natalie;CHAN, Yvonne;CHIVUKULA, Sudha;DANZ, Hillary;DINAPOLI, Josh;GROPPO, Rachel;KISHKO, Michael;MUNDLE, Sophia;SASMAL, Sukanya;STRUGNELL, Tod;STUEBLER, Antonia;ZHANG, Linong~ 33:US ~31:63/284,405 ~32:30/11/2021

2024/04939 ~ Complete ~54:COMPOUNDS ~71:Fundación Del Sector Público Estatal Centro Nacional De Investigaciones Oncológicas Carlos III (F.S.P. CNIO), Melchor Fernandez Almagro 3, MADRID 28029, SPAIN, Spain ~72: ALBARRÁN SANTIÑO, María Isabel;BLANCO APARICIO, Carmen;CEBRIÁ GÓMEZ, Antonio;CEBRIÁN MUÑOZ, David Álvaro;FERNÁNDEZ, Joaquin Pastor;GARCÍA GARCÍA, Ana Belén;GONZÁLEZ CANTALAPIEDRA, Esther;GÓMEZ DE LA OLIVA, Cristina Ana;HERNÁNDEZ ENCINAS, Elena;MARTÍN HERNANDO, Jose Ignacio;MARTÍNEZ GONZÁLEZ, Sonia;RAMOS LIMA, Francisco Javier;RIESCO FAGUNDO, Rosario Concepción;ÁLVAREZ ESCOBAR, Rosa María~ 33:EP ~31:21211778.2 ~32:01/12/2021

2024/04951 ~ Complete ~54:ELECTROCHEMICAL CELL DEVICES AND METHODS OF MANUFACTURING ~71:Meso Scale Technologies, LLC., 1601 Research Boulevard, ROCKVILLE 20850, MD, USA, United States of America ~72: BILLADEAU, Mark;CARBONE, Nicholas;CLINTON, Charles;DOWDELL, Scott;FOX-LYON, Nicholas;JEFFREY-COKER, Bandele;KOCHAR, Manish;LEIMKUEHLER, Aaron;PETTINGILL, Jeffrey;SIGAL, George;SPIELES, Gisbert;TABAKIN, Leo;TUCKER-SCHWARTZ, Alexander;VANDERSARL, Jules;WOHLSTADTER, Jacob N.~ 33:US ~31:63/296,287 ~32:04/01/2022

2024/04952 ~ Complete ~54:HYBRID ROTATIONAL SPEED DETECTOR ~71:ITT Manufacturing Enterprises LLC, 1105 North Market Street, Suite 1300, WILMINGTON 19801, DE, USA, United States of America ~72: DECOOK, Bradley C.;REITANO, James~

2024/04954 ~ Complete ~54:A METHOD AND ELECTRONIC DEVICE FOR MESSAGING ~71:8SEATS GROUP PTY LTD, 75 Kings Road, Australia ~72: MCDONALD, Iain~ 33:AU ~31:2021904225 ~32:23/12/2021

2024/04928 ~ Complete ~54:POLYPEPTIDES COMPRISING IMMUNOGLOBULIN SINGLE VARIABLE DOMAINS TARGETING TCRAB, CD33 AND CD123 ~71:ABLYNX NV, Technologiepark 21, Zwijnaarde, Belgium;SANOFI, 46 Avenue de la Grande, France ~72: BONNEVAUX, Helène;DULLAERS, Melissa;ROOBROUCK, Annelies;STAELENS, Stephanie;VAN HOORICK, Diane;VERHELST, Judith~ 33:EP ~31:21306822.4 ~32:17/12/2021;33:EP ~31:22305477.6 ~32:07/04/2022

2024/04929 ~ Complete ~54:PRINTING APPARATUS AND ADDITIVE MANUFACTURING METHOD COMPRISING AUTOMATIC POSITION CALIBRATION ~71:DIHESYS DIGITAL HEALTH SYSTEMS GMBH, Marie-Curie-Strasse 19, Germany ~72: DACHTLER, Markus;HUBER, Benjamin;HUBER, Gerald;RICHTER, Alexander~ 33:DE ~31:20 2021 003 596.6 ~32:24/11/2021

2024/04935 ~ Complete ~54:BIFUNCTIONAL ARYLSULPHONAMIDE COMPOUNDS ~71:ANAXIS PHARMA PTY LTD, Bio21 Institute 30 Flemington Road Parkville, Victoria, 3052, Australia ~72: CHRISTOPHER GARDNER;GUILLAUME LAURENT LESSENE;JEAN-MARC DANIEL GARNIER~ 33:AU ~31:2021904198 ~32:22/12/2021

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. - APPLIED ON 2024/06/25 -

2024/04977 ~ Complete ~54:MODIFIED 5' UTR ~71:NUTCRACKER THERAPEUTICS, INC., 5658 Horton Street, Suite 540, United States of America ~72: DEUTCH, Samuel;FRIMANNSSON, Daniel Omar;HAABETH, Ole~ 33:US ~31:63/284,261 ~32:30/11/2021

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2024/04958 ~ Provisional ~54:DEVICE INTERROGATION ~71:CRANSTOUN-DAY, Matthew John Henry, 13 Wagenaar Street, Bothasig, South Africa;FESTER, David, 13 Wagenaar Street, Bothasig, South Africa ~72: CRANSTOUN-DAY, Matthew John Henry;FESTER, David~

2024/04968 ~ Complete ~54:DRUG CONJUGATE, PHARMACEUTICAL COMPOSITION AND METHOD OF TREATING HEPATITIS ~71:SEECURE TAIWAN CO., LTD., No. 28, Huadong Road, Daliao District, Kaohsiung City, Taiwan, Province of China ~72: CHI-SHIANG KE;CHIN-YU LIANG;HSIN-JOU LI;MIN-CHING CHUNG;NAI-CHEN HSUEH;TAI-YUN HUANG;WUU-JYH LIN;YA-CHEN TSENG;YAN-FENG JIANG;YEN-CHUN LEE~ 33:US ~31:63/524,210 ~32:29/06/2023;33:US ~31:18/679,403 ~32:30/05/2024

2024/04974 ~ Complete ~54:A NEW MATERIAL CONTAINER BOTTOM PLATE PRODUCTION METHOD TECHNICAL FIELD ~71:Renhua County Aoda Plywood Co., Ltd, No. 31, Daling Industrial Park, Renhua County, Shaoguan City, Guangdong Province, 512399, People's Republic of China ~72: Kong Lingyan;Pan Jinshan;Pan Yuan~

2024/04976 ~ Complete ~54:MODIFIED AAV CAPSID PROTEIN AND USE THEREOF ~71:CHENGDU ORIGEN BIOTECHNOLOGY CO., LTD., 6th Floor, Building 2, No. 108 Shuxi Road, Jinniu District, Chengdu, People's Republic of China ~72: JIANG, Hao;KE, Xiao;LUO, Shuang;ZHENG, Qiang~ 33:CN ~31:202111628667.2 ~32:28/12/2021

2024/04993 ~ Complete ~54:SULFONAMIDE COMPOUNDS FOR THE TREATMENT OF NEUROLOGICAL CONDITIONS ~71:Lario Therapeutics Limited, 137a George Street, EDINBURGH EH2 4JY, UNITED KINGDOM, United Kingdom ~72: CATALANI, Maria Pia;PEVARELLO, Paolo;STEINHAGEN, Henning~ 33:GB ~31:2117127.7 ~32:26/11/2021

2024/04983 ~ Complete ~54:FULL-AUTOMATIC GLUE DISPENSER MOUNTER ~71:TAICANG MINGKONG INFORMATION TECHNOLOGY CO., LTD., Room 233, Building 1, No. 5 Wenzhi Road, Nanjiao, Chengxiang Town, Taicang City, Suzhou, Jiangsu, People's Republic of China ~72: CHENG, Liang~

2024/04957 ~ Provisional ~54:STRUCTURAL PRODUCT ~71:KIRK,William James, 34 Laboria Street, Isandovale, South Africa ~72: KIRK,William James;SEUTE, Horst~

2024/04963 ~ Complete ~54:CONTROL SYSTEM OF AIRCRAFT MAINTENANCE FOLLOWING ROBOT BASED ON ROS SYSTEM ~71:Guangzhou Civil Aviation College, NO.10 Xiangyun West Street, Jichang Road, Guangzhou City, Guangdong Province, People's Republic of China ~72: BAI Jiankun;KE Zhendong~

2024/04970 ~ Complete ~54:APPARATUS, ROCK DRILLING RIG AND DRILLING METHOD ~71:Sandvik Mining and Construction Oy, Pihtisulunkatu 9, TAMPERE FI-33330, FINLAND, Finland ~72: ILORANTA, Hannu;JÄNTTI, Jarkko;MONONEN, Mikko;SAARELA, Miro;VIINIKAINEN, Mikko~ 33:EP ~31:23194773.0 ~32:01/09/2023

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2024/04960 ~ Provisional ~54:PROJECTILE IDENTIFICATION SYSTEM ~71:KAGISHO MODISAKGOSI, House number 30007, Tloung Village, South Africa ~72: KAGISHO MODISAKGOSI~

2024/04959 ~ Provisional ~54:AUTOMATED RUNNER IDENTIFICATION AND VIDEO PROCESSING SYSTEM ~71:Lubabalo Nomatye, 2 Reedbuck Road, Elands Mews, South Africa ~72: Lubabalo Nomatye~

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2024/04982 ~ Complete ~54:ADJUSTING DEVICE FOR FLOW CONTROLLERS ~71:SUZHOU KEYITE AUTOMATION TECHNOLOGY CO., LTD., No.1 Jianxiong Road, Science And Education New City, Taicang City, Suzhou, Jiangsu, 215400, People's Republic of China ~72: CHEN, Shenghu~

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2024/04978 ~ Complete ~54:SYSTEMS AND METHODS FOR PROCESSING VARIABLE CODING AND MODULATION (VCM) BASED COMMUNICATION SIGNALS USING FEEDFORWARD CARRIER AND TIMING RECOVERY ~71:KRATOS INTEGRAL HOLDINGS, LLC, 10680 TREENA STREET, 6TH FLOOR, SAN DIEGO, CALIFORNIA 92131, USA, United States of America ~72: JARRIEL, Jeffrey, David;KING, Brandon, Gregory;STOLTENBERG, Matthew, James;SUTTON, Daniel, Joseph~

2024/04987 ~ Complete ~54:A HEAT EXCHANGER MODULE AND A DIE COMPRISING A PLURALITY OF MODULES ~71:PAVAN S.P.A., Via Monte Grappa 8, 35015, Galliera Veneta, (Padova), Italy ~72: GIORGIO TESSER;MASSIMO LENTI;NICOLA FAVERO~ 33:EP ~31:22203177.5 ~32:24/10/2022

2024/04965 ~ Complete ~54:METHOD FOR IDENTIFYING COMPLEX NAMES ~71:Beijing Tianmixuan Cultural Communication Co., Ltd, Room 1103, 11th Floor, Building 8, Yard 2, Dongshidong 4th Road, Beijing Economic and Technological Development Zone (Tongzhou), Beijing, People's Republic of China ~72: Baojun Yan~

2024/04955 ~ Provisional ~54:LOUNGERS ~71:VAN SCHALKWYK, Zjak, 15 Saint Claire Complex, Tobias Road, Broadwood, South Africa ~72: VAN SCHALKWYK, Zjak~

2024/04956 ~ Provisional ~54:MAGNETITE MATERIAL FOR HEAT TRANSFER APPLICATIONS ~71:The Trustees for the time being of the KMN FULFILMENT TRUST, 8 Kestrel Street, Ebotse Golf Estate, Rynfield, BENONI 1504, SOUTH AFRICA, South Africa ~72: MAKGERU, Kabu Walter~

2024/04988 ~ Complete ~54:METHOD FOR PREPARING SECONDARY BATTERY MATERIAL FROM BLACK MASS ~71:KEMCO, 542 Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea;KOREA ZINC CO., LTD., 542, Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea ~72: CHANG YOUNG CHOI;JE JOONG LEE~ 33:KR ~31:10-2022-0040519 ~32:31/03/2022

2024/04995 ~ Complete ~54:METHODS FOR TREATING PATIENTS WITH AN AUTOANTIBODY-MEDIATED DISEASE ~71:argenx BV, Industriepark Zwijnaarde 7, GHENT 9052, BELGIUM, Belgium ~72: CALBO, Sebastien;HERTL, Michael;JOLY, Pascal;MAHO-VAILLANT, Maud;POLLMANN, Robert;SIPS, Magdalena;VERHEESEN, Peter~ 33:US ~31:63/266,852 ~32:17/01/2022

2024/04996 ~ Complete ~54:REACTOR FOR A WASTE TRANSFORMATION DEVICE ~71:AGASAROV, Dmitrii Yanovich, Anrapetutyan Street, d.62, apt.95, Armenia;MESHCHANINOV, Mikhail Aleksandrovich, ul. Gagarina, d. 38, k. 2, Russian Federation;SERGEEV, Anton Viktorovich, ul. im. Ivana Kiyashko, Russian Federation ~72: AGASAROV, Dmitrii Yanovich;MESHCHANINOV, Mikhail Aleksandrovich~ 33:RU ~31:2021140063 ~32:30/12/2021

2024/04964 ~ Complete ~54:A TEMPERATURE DETECTION METHOD FOR ELECTROMAGNETIC LEVITATION MOLTEN DROPLETS ~71:Kunming University of Science and Technology, No.68, Wenchang Lane, Yi'eryi Street, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Bing Yi;Daiwei Liu;Guifang Zhang;Jincai Li;Li Zhang;Nan Tian;Peng Yan;Pengchao Li;Qi Jiang;Weidong Zhao;Xiaoliang Wang;Xinchen Pang;Yuandong Yan;Zhenhua Feng;Zhixiang Xiao~

2024/04972 ~ Complete ~54:ELECTRICAL APPARATUS COMBINED MOUNTING MANIPULATOR ~71:Chuzhou University, No. 1, Huifeng West Road, Chuzhou City, Anhui Province, 239004, People's Republic of China ~72: XIE Guoxiong~

2024/04997 ~ Complete ~54:ELECTROSTATIC FRICTION PULSE GENERATOR ~71:AGASAROV, Dmitrii Yanovich, Anrapetutyan Street, d.62, apt.95, Armenia;MESHCHANINOV, Mikhail Aleksandrovich, ul. Gagarina, d. 38, k. 2, Russian Federation;SERGEEV, Anton Viktorovich, ul. im. Ivana Kiyashko, d. 18, Russian Federation ~72: AGASAROV, Dmitrii Yanovich;MESHCHANINOV, Mikhail Aleksandrovich~ 33:RU ~31:2022104158 ~32:17/02/2022

2024/04966 ~ Complete ~54:A ROOTING METHOD FOR POMEGRANATE TISSUE CULTURE ~71:Zhongyi Agricultural Science and Technology Development (Shandong) Co., Ltd., 10 meters opposite to West Pomegranate Expo Park, Guanshi Pomegranate Orchard Scenic Spot, Liuhua Road, Liuyuan Town, Yicheng, Zaozhuang City, Shandong Province, 277000, People's Republic of China ~72: Chao LI;Dapeng LIU;Guangliang LIU;Haoran LIU;Hua LUO;Ming JI;Shanfang NIE;Shaobiao ZHANG;Yongshuai LI;Zhaoxiang HAO~ 33:CN ~31:202410662685X ~32:27/05/2024

2024/04985 ~ Complete ~54:METHOD FOR PRODUCING NICKEL SULFATE SOLUTION FOR SECONDARY BATTERY FROM NICKEL CATHODE ~71:KEMCO, 542 Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea;KOREA ZINC CO., LTD., 542, Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea ~72: HEON SIK CHOI;JAE HOON JOO;TAE KYUNG LEE~ 33:KR ~31:10-2023-0004092 ~32:11/01/2023

2024/04990 ~ Complete ~54:PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING TRIPLE-NEGATIVE BREAST CANCER ~71:DAEWOONG PHARMACEUTICAL CO., LTD., 35-14, Jeyakgongdan 4-gil, Hyangnam-eup, Hwaseong-si, Gyeonggi-do, 18623, Republic of Korea ~72: AHREUM KWON;JI DUCK KIM;JOON SEOK PARK;KWON JO LIM~ 33:KR ~31:10-2021-0192406 ~32:30/12/2021

2024/04981 ~ Complete ~54:BONE REGENERATION MATERIAL ~71:WISHBONE, RUE DE L'EXPANSION 1, BOÎTE 3 4400 FLÉMALLE, Belgium ~72: DORY, Emilie;LAMBERT, France;LECLOUX, Geoffrey;ROMPEN, Eric~ 33:BE ~31:BE2021/6050 ~32:23/12/2021

2024/04991 ~ Complete ~54:INHALER ~71:1NHALER LTD, 1(2F3) Jessfield Terrace, Edinburgh Lothian, EH6 4JR, United Kingdom ~72: DONALD SMITH;KAI WOLBERS;PATRICK BAUMHAKL~ 33:GB ~31:2201567.1 ~32:08/02/2022;33:GB ~31:2212133.9 ~32:19/08/2022

2024/04967 ~ Complete ~54:AN ESTABLISHMENT METHOD FOR DIGITAL TWIN MODEL OF BRIDGE CONSTRUCTION BASED ON DYNAMIC BAYESIAN NETWORK ~71:Hefei University of Technology, No. 193 Tunxi Road, Hefei City, Anhui Province, 230009, People's Republic of China ~72: Dingtang WANG;Kai PENG;Xudong MENG;Yu XIN;Yunpeng JIANG;Zongzu LIU;Zuocai WANG~ 33:CN ~31:2024108025918 ~32:20/06/2024

2024/04973 ~ Complete ~54:A KIND OF COMPOSITE LIVESTOCK LICKING BRICK ~71:Shan Huajia, No. 846, Beihuan Road, Ganzhou District, Zhangye City, Gansu Province, 734000, People's Republic of China ~72: Shan Huajia~

2024/04971 ~ Complete ~54:METHOD AND SYSTEM FOR GENERATING GRAPH BASED ON TEXT BIG DATA ~71:NINGBO UNIVERSITY OF FINANCE AND ECONOMICS, 899 Xueyuan Road, Haishu District, Ningbo City, People's Republic of China ~72: HE, Jianwei;XIONG, Songquan~ 33:CN ~31:2024100863758 ~32:22/01/2024

2024/04984 ~ Complete ~54:METHOD FOR ENRICHING IRON ORES CONTAINING HEMATITE ~71:AKTSIONERNOE OBSCHESTVO "MIKHAILOVSKII GOK IMENI ANDREYA VLADIMIROVICHA VARICHEVA", ul. Lenina, d. 21 Kurskaya oblast, g., Russian Federation;EFENDIEV, Nazim Tofik oglyy, pereulok Protopopovskii, d. 17, str. 3, kv. 66 g., Russian Federation;ZAKHAROV, Anton Grigorevich, ul. Berzarina, d. 28 A, korp. 1, kv. 33 g., Russian Federation ~72: BASKAEV, Petr Murzabekovich;CHANTURIYA, Aleksandr Valentinovich;EFENDIEV, Nazim Tofik oglyy;GOLENKOV, Dmitrii Nikolaevich;GRIDASOV, Igor Nikolaevich;ISMAGILOV, Rinat Irshatovich;KHROMOV, Vladimir Valerievich;SHELEPOV, Eduard Vladimirovich;TARASOV, Dmitrii Vladimirovich;ZAKHAROV, Anton Grigorevich~

2024/04999 ~ Complete ~54:METHOD FOR DESTROYING ORGANIC WASTE WITH A LOW WATER CONTENT ~71:AGASAROV, Dmitrii Yanovich, Anrapetutyan Street, d.62, apt.95, Armenia;MESHCHANINOV, Mikhail Aleksandrovich, ul. Gagarina, d. 38, k. 2, Russian Federation;SERGEEV, Anton Viktorovich, ul. im. Ivana Kiyashko, d. 18, Russian Federation ~72: AGASAROV, Dmitrii Yanovich;MESHCHANINOV, Mikhail Aleksandrovich~ 33:RU ~31:2021140063 ~32:30/12/2021

2024/04980 ~ Complete ~54:PYRROLO[1,2-B]-2-PYRIDAZINONE COMPOUNDS AS 5-HT4 RECEPTOR AGONISTS ~71:SUVEN LIFE SCIENCES LIMITED, 6th Floor, Serene Chambers, Road – 5, Avenue – 7, India ~72: BENADE, Vijay Sidram;GOURA, Venkatesh;GOYAL, Vinod Kumar;JASTI, Venkateswarlu;MOHAMMED, Abdul Rasheed;NIROGI, Ramakrishna;PANDEY, Santosh Kumar;SHINDE, Anil Karbhari~ 33:IN ~31:202241001436 ~32:11/01/2022

2024/04986 ~ Complete ~54:METHOD FOR PRODUCING AQUEOUS SOLUTION CONTAINING NICKEL, COBALT AND MANGANESE ~71:KEMCO, 542 Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea;KOREA ZINC CO., LTD., 542, Gangnam-daero, Gangnam-gu, Seoul, 06110, Republic of Korea ~72: CHANG YOUNG CHOI;HEON SIK CHOI;JAMES SOUNG CHOI;YUN BIRM CHOI~ 33:KR ~31:10-2023-0004231 ~32:11/01/2023

2024/04962 ~ Complete ~54:A BUILDING STRUCTURE FOR GREEN ROOFING OF BUILDINGS ~71:Anhui Science and Technology University, No. 9 Donghua Road, Fengyang County, Chuzhou City, Anhui Province,

People's Republic of China;Bengbu Architectural Design Research Institute Group Co. , Ltd, No. 120 Zhongrong Street, Bengbu City, Anhui Province, People's Republic of China ~72: HONG Shanzheng;LING Jianxiang;PENG Xiaohong;WU Yusong;YIN Jing~ 33:CN ~31:202410785193X ~32:18/06/2024

2024/04969 ~ Complete ~54:METHOD FOR CONTROLLING THE ROTATION SPEED OF A MOTOR ~71:MANITOU ITALIA S.R.L., Via Cristoforo Colombo 2, Castelfranco Emilia (Modena), 41013, Italy ~72: MARCO IOTTI~ 33:IT ~31:102023000016377 ~32:02/08/2023

2024/04989 ~ Complete ~54:AMINOHETEROARYL KINASE INHIBITORS ~71:ALLORION THERAPEUTICS INC, 22 Strathmore Road, Natick, Massachusetts, 01760, United States of America ~72: DAI CHENG;QIANG DING;TAO ZHANG~ 33:CN ~31:PCT/CN2021/133429 ~32:26/11/2021

. - APPLIED ON 2024/06/26 -

2024/05004 ~ Complete ~54:PICKER FOR BUDS OF MAGNOLIAE FLOS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467041, People's Republic of China ~72: Fu Taotao;Kuang Xu;Lv Shiqi~

2024/05006 ~ Complete ~54:VERTICAL KILN ~71:UNIVERSITY OF JOHANNESBURG, Cnr. Kingsway and University Roads Auckland Park, Johannesburg, 2006, South Africa ~72: ANTOINE MULABA;FREEMAN ELTHER DAVID SENZANI;LAGOUGE KWANDA TARTIBU;ROLLY KARODOLAN NDEKO KABINGA~ 33:ZA ~31:2024/04473 ~32:10/06/2023;33:ZA ~31:2023/06669 ~32:29/06/2023;33:ZA ~31:2024/04473 ~32:10/06/2024

2024/05010 ~ Complete ~54:METHODS FOR REDUCING THE RISK OF STROKES BY PHARMACOTHERAPY TO REDUCE THE NUMBER AND DURATION OF ATRIAL FIBRILLATIONS ~71:XYRA, LLC, 120 Hatona Drive, United States of America ~72: DRUZGALA, Pascal;MILNER, Peter Gerard~ 33:US ~31:63/297,426 ~32:07/01/2022;33:US ~31:63/334,852 ~32:26/04/2022;33:US ~31:17/978,835 ~32:01/11/2022

2024/05013 ~ Complete ~54:AUTOMATIC ESTIMATION OF POSITIONS OF BRACHYTHERAPY SEEDS ~71:ALPHA TAU MEDICAL LTD., 5 Kiryat Hamada Street, Jerusalem, Israel ~72: COHEN, Yadin;GAT, Amnon;KAMAI, Ilay;SEGAL, Ronen~ 33:US ~31:63/291,966 ~32:21/12/2021

2024/05020 ~ Complete ~54:ANTI-CANINE INTERLEUKINE-31-RECEPTOR A (IL-31RA) ANTIBODIES AND THE USES THEREOF ~71:VETOQUINOL SA, Magny - Vernois, 70200, Lure, France ~72: OLIVIER LEGER~ 33:EP ~31:21306860.4 ~32:20/12/2021

2024/05028 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: SUTTON, Joseph~ 33:GB ~31:2200041.8 ~32:05/01/2022

2024/05008 ~ Complete ~54:A PURE GRAIN RHIZOMA POLYGONATI RICE WINE AND A BREWING METHOD THEREOF ~71:Hanzhong Ruijiahong Agriculture Co., Ltd., No. 7077, Community Group 1, Yangjiaba Village, Hanshan Street, Nanzheng District, Hanzhong City, Shaanxi Province, 723102, People's Republic of China ~72: Long Wang~ 33:CN ~31:202310853189.8 ~32:12/07/2023

2024/05001 ~ Complete ~54:A METHOD AND APPARATUS FOR MANIPULATING ELECTROMAGNETIC RADIATION ~71:CHAMPION MOBILE GLOBAL LTD, Ridge View, Wellgreen Lane,, United Kingdom ~72: KHAN, Saad Saleem;LARKIN, Stephen;NISAR, Momina;OMAR, Muhammad;USMAN, Muhammad;ZAMAN, Kiran~

2024/05009 ~ Complete ~54:PRIMER-PROBE SET AND A KIT FOR IDENTIFYING SOURCE COMPONENTS OF FEMALE DEER PRODUCTS BASED ON TWO-PROBE TECHNIQUE, AN IDENTIFICATION METHOD AND

APPLICATIONS ~71:CHINA JILIANG UNIVERSITY, 258 Xueyuan Street, Qiantang District, Hangzhou City, People's Republic of China;ZHOUSHAN FOOD AND DRUG INSPECTION AND TESTING INSTITUTE, No.49, Honglu Avenue, Beichen New Port Development Zone, Dinghai District, Zhoushan City, People's Republic of China ~72: CHEN, Xiang;GUAN, Feng;HUANG, Zhuliang;LIU, Ting;TANG, Leiming;WU, Xiansu~ 33:CN ~31:202310932112.X ~32:26/07/2023

2024/05021 ~ Complete ~54:ORTHOPEDIC CABLE BONE TRANSPORT DEVICE AND BONE TRANSPORT SYSTEM COMPRISING SAID DEVICE ~71:ORTHOFIX S.R.L., Via delle Nazioni, 9, 37012, Bussolengo (Verona), Italy;TEXAS SCOTTISH RITE HOSPITAL FOR CHILDREN, 2222 Welborn Street, Dallas, Texas, 75219, United States of America ~72: ALEXANDER M CHERKASHIN;ANDREA OTTOBONI;DANIELE VENTURINI;JOHN D ROSS;KAREN D STANDEFER;MICHAEL LUPATINI;MIKHAIL L SAMCHUKOV~ 33:US ~31:17/560,789 ~32:23/12/2021

2024/05030 ~ Complete ~54:LIP FOR EARTH MOVING MACHINE SHOVEL AND LIP MANUFACTURING METHO ~71:METALOGENIA RESEARCH & TECHNOLOGIES S.L., C/Avila No. 45, 08005, Barcelona, Spain ~72: AMAT HOLGADO, Carlos;PEREZ SORIA, Francisco~ 33:EP ~31:21383213.2 ~32:23/12/2021

2024/05002 ~ Complete ~54:METHOD FOR PRODUCING SWEET YOGURT BY FERMENTATION OF LACTOBACILLUS PLANTARUM ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: CHEN, Yanyan;LI, Bingbing;LI, Leilei;LIU, Junhong;YE, Yanxin~

2024/05007 ~ Complete ~54:A BREAST TUMOR BIOPSY DEVICE ~71:Jilin University, No.2699, Qianjin Avenue, Chaoyang District, Changchun City, Jilin Province, 130012, People's Republic of China ~72: Taiyuan Liu;Xu Huang;Xuying Gong;Ying Shi;Yingchao Zhang;Ziwen Gao~ 33:CN ~31:202410620151.0 ~32:17/05/2024

2024/05024 ~ Complete ~54:INTEGRATED PROCESSES FOR PECTIN ACTIVATION AND MILD EXTRACTION ~71:CP KELCO APS, Ved Banen 16, 4623, Lille Skensved, Denmark ~72: BASTIAN ANDERSEN;JAN AAE STAUNSTRUP;JOSÉ JÚNIOR BUTZGE~ 33:US ~31:63/313,785 ~32:25/02/2022;33:US ~31:63/353,051 ~32:17/06/2022

2024/05026 ~ Complete ~54:BEVERAGE CAN ~71:Anheuser-Busch InBev S.A., Grand Place 1, BRUSSELS 1000, BELGIUM, Belgium;Envases Universales de México SAPI de CV, Qúbica Lomas, Volcán 150 3° piso, Colonia Lomas de Chapultepec, CIUDAD DE MÉXICO 11000, MEXICO, Mexico ~72: DE GRAAF, Frederik Fernand S.;DE SMET, Jan;DEUSER, Bradley Kenneth;LIEB, David;O'CONNOR, Evan~ 33:BE ~31:BE2021/6068 ~32:27/12/2021

2024/05029 ~ Complete ~54:LITHIUM-LOADED COMPOSITE FRAMEWORK MATERIAL, PREPARATION METHOD THEREFOR AND USE THEREOF ~71:CENTRAL SOUTH UNIVERSITY, No. 932 South Lushan Road,, People's Republic of China ~72: HONG, Bo;JIANG, Huai;LAI, Junquan;LAI, Yanqing;LI, Jie;QIN, Furong;WANG, Mengran;WANG, Qiyu;ZHANG, Kai;ZHANG, Zhian;ZHOU, Yangen~ 33:CN ~31:202111442827.4 ~32:30/11/2021

2024/05012 ~ Complete ~54:AGRICULTURAL IMPLEMENT HAVING ROW UNIT SUPPORTS AND ALIGNMENT PINS, AND RELATED METHOD OF CONFIGURING SUCH IMPLEMENT ~71:AGCO DO BRASIL SOLUÇÕES AGRÍCOLAS LTDA., AV Bandeirantes, No. 384 Bairro Vila Virginia Ribeirao Preto, Brazil ~72: BURGHAUSEN, Leandro;CUNHA, Venicius, Damo;MATTER, Jarlis, Luiz~ 33:GB ~31:2202999.5 ~32:04/03/2022

2024/05003 ~ Complete ~54:ON-LINE MONITORING DEVICE FOR MOLTEN POOL IN LASER MACHINING PROCESS ~71:WENZHOU POLYTECHNIC, University Town, Chashan and Jiangjiaqiao 81, Wenzhou, Zhejiang,P.R., People's Republic of China ~72: HE Hongjun;WEI Xinlei~

2024/05005 ~ Complete ~54:METHOD OF PRODUCING A BLAST DESIGN ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: SCHLENTER, Craig Charles~ 33:ZA ~31:2023/06542 ~32:26/06/2023

2024/05015 ~ Complete ~54:FOOD PRODUCT AND DEVICE AND METHOD FOR MANUFACTURING THE SAME ~71:BÜHLER AG, GUPFENSTRASSE 5, 9240 UZWIL, SWITZERLAND, Switzerland ~72: GEORGET, Erika, Sylvie;MITCHELL, William, Robert;ROBERTS, Ian, David~ 33:EP ~31:21211396.3 ~32:30/11/2021

2024/05011 ~ Complete ~54:METHOD FOR MONITORING A CONTROL PARAMETER ON A SUBSTANTIALLY PLASTIC MATERIAL, RELATING TO APPARATUS AND PYROLYSIS PROCESS WHICH USES THIS METHOD ~71:VERSALIS S.P.A., Piazza Boldrini, 1, Italy ~72: BONACINI, Francesco;FELISARI, Riccardo;GALEOTTI, Armando;NODARI, Mirco;PONTICIELLO, Antonio~ 33:IT ~31:102021000033059 ~32:30/12/2021

2024/05016 ~ Complete ~54:MRNA FOR PROTEIN EXPRESSION AND TEMPLATE THEREFOR ~71:SK BIOSCIENCE CO., LTD., 310, PANGYO-RO, BUNDANG-GU SEONGNAM-SI, GYEONGGI-DO 13494, REPUBLIC OF KOREA, Republic of Korea ~72: JEUNG, Woon-hee;KIM, Jung-in;SEO, Ki-Weon~ 33:KR ~31:10-2022-0012551 ~32:27/01/2022

2024/05019 ~ Complete ~54:APPARATUS TO GUIDE ANIMALS AND METHOD THEREFOR ~71:HALTER USA INC, 201 Spear Street, Suite 1100, United States of America ~72: NIEUWENHUIZEN, Peter;WOODHOUSE, Callum~ 33:AU ~31:2021904052 ~32:14/12/2021

2024/05023 ~ Complete ~54:INORGANIC SOLIDS MIXTURE ~71:ARKEMA FRANCE, 420, rue d'Estienne d'Orves, 92700, Colombes, France ~72: CÉCILE LUTZ;LUDIVINE BOUVIER;MARIE-LAURENCE LABEDE~ 33:FR ~31:FR2114715 ~32:31/12/2021

2024/05025 ~ Complete ~54:VEHICLE TRAVEL CONTROL DEVICE, METHOD FOR ACQUIRING VEHICLE POSITION INFORMATION, COMPUTER-READABLE RECORDING MEDIUM, AND PROGRAM FOR ACQUIRING VEHICLE POSITION INFORMATION ~71:Broadleaf Co., Ltd., 4-13-14, Higashi-Shinagawa, Shinagawa-ku, TOKYO 1400002, JAPAN, Japan ~72: HIRANO, Yoshitake~ 33:JP ~31:2021-213338 ~32:27/12/2021

2024/05027 ~ Complete ~54:AUTONOMOUS VEHICLE CONTROL METHOD AND APPARATUS, AND OPERATION SYSTEM ~71:Jiangsu XCMG Construction Machinery Research Institute Ltd., No.26, Tuolanshan Road, Economic Development Zone, XUZHOU 221004, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: SUN, Yawen;TANG, Jianlin;ZHOU, Changcheng~ 33:CN ~31:202310219727.8 ~32:08/03/2023

2024/05014 ~ Complete ~54:HYDRAULIC LUBRICANT FORMULATIONS WITH HIGH FLASH POINT AND IMPROVED SHEAR STABILITY ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: JOVIC, Kristina;MÄHLING, Frank-Olaf;SMIRNOV, Anatolij~ 33:EP ~31:21215475.1 ~32:17/12/2021

2024/05017 ~ Complete ~54:NITROGEN-DOPED CARBON-FILM-COATED MANGANESE MONOXIDE NANOWIRE LITHIUM BATTERY MATERIAL AND PREPARATION METHOD THEREFOR ~71:ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY, No.9 Donghua Road, Fengyang County, Chuzhou, Anhui, 233110, People's Republic of China ~72: CHEN, Yuan;FAN, Xiaoyu;LIU, Zining;LV, Chengyun;WANG, Na;XIE, Ke;YANG, Qiuyun;ZHANG, Lan~ 33:CN ~31:202211340300.5 ~32:28/10/2022

2024/05018 ~ Complete ~54:6'-CYANO-MODIFIED LOCKED NUCLEOSIDES, NUCLEOTIDES, AND NUCLEIC ACID POLYMERS ~71:ACADEMY OF MILITARY MEDICAL SCIENCES, 27 Taiping Road, Haidian District, Beijing, 100850, People's Republic of China ~72: DENG, Xinxiu;HE, Xiaoyang;SHI, Anzhe;WANG, Shengqi~ 33:CN ~31:202310565102.7 ~32:18/05/2023

2024/05022 ~ Complete ~54:LIFT ANGLE CONTROL SYSTEM ~71:KRUGER, ANDRÉ JACQUES, 643 Shubert Road, Melodie , Hartebeespoort, 0260, South Africa ~72: ANDRÉ JACQUES KRUGER~ 33:ZA ~31:2021/09752 ~32:30/11/2021

. - APPLIED ON 2024/06/27 -

2024/05034 ~ Complete ~54:METHOD FOR RECOVERING LEPIDOLITE BY SHORT-PROCESS FLOTATION ~71:Kunming University of Science and Technology, No. 253 Xuefu Road, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: FENG, Qicheng;HAN, Guang;WEN, Shuming;ZHANG, Qian~ 33:CN ~31:202310885363.7 ~32:19/07/2023

2024/05040 ~ Complete ~54:DEVICE AND METHOD FOR DETERMINING LIQUID CONTACT AND LIQUID VOLUME IN A LIQUID DISPENSER BASED ON SOUND ~71:Meso Scale Technologies, LLC., 1601 Research Boulevard, ROCKVILLE 20850, MD, USA, United States of America ~72: KOVACS, Sandor;WU, Pei-Ming~ 33:US ~31:62/869,725 ~32:02/07/2019

2024/05050 ~ Complete ~54:ANTI-SARS-COV-2 SPIKE (S) ANTIBODIES AND THEIR USE IN TREATING COVID-19 ~71:NOVAVAX, INC., 21 Firstfield Road, United States of America ~72: PATEL, Nita;SMITH, Gale~ 33:US ~31:63/293,451 ~32:23/12/2021

2024/05062 ~ Complete ~54:OPERATION MANAGEMENT SYSTEM AND OPERATION MANAGEMENT METHOD ~71:YAZAKI CORPORATION, 8-15, Konan 1-Chome, Minato-ku, Tokyo, 1080075, Japan ~72: KOSUKE KOGO~ 33:JP ~31:2022-010338 ~32:26/01/2022

2024/05038 ~ Complete ~54:FEED CONTAINING GINSENOSIDE AND APPLICATION THEREOF IN REDUCING ANIMAL TESTICULAR INJURY CAUSED BY GLUFOSINATE-AMMONIUM ~71:Fujian Vocational College of Agriculture, No. 116 Guishan, Hongxing Village, Jingyang Town, Fuqing City, Fujian Province, People's Republic of China;Jiangxi Agricultural University, No. 1101 Zhimin Avenue, Nanchang City, Jiangxi Province, People's Republic of China;Jiangxi Biotech Vocational College, 608 Nanlian Road, Qingyunpu District, Nanchang City, Jiangxi Province, People's Republic of China ~72: CAO Huabin;DAI Xueyan;GAO Feiyan;HU Guoliang;HUANG Jiamei;WANG Yun;XING Chenghong;XIONG Zhiwei;YANG Fan~

2024/05043 ~ Complete ~54:PROCESS FOR PREPARING METHOXY METHYL PYRIDINE DICARBOXYLATE ~71:ADAMA AGAN LTD., P.O. Box 262, Northern Industrial Zone, Ashdod, 7710201, Israel ~72: AVIHAI YACOVAN;OMER TZOR;TZURIT KUSNIEC~ 33:US ~31:62/424,888 ~32:21/11/2016

2024/05044 ~ Complete ~54:INTEGRATED FOAMING AND COOLING DEVICE FOR ULTRA-SOFT ELECTRONIC CROSS-LINKED FOAM MATERIALS ~71:Zhejiang Xinhengtai Advanced Material Co., Ltd., No.919,Xinda Road, Nanhu District, Jiaxing City, Zhejiang Province, 314006, People's Republic of China ~72: Chenglong Weng;Chunping Chen;Jiahuan Qian;Jialin Wang;Jun Yu;Junhua Chen;Kailiang Zhang;Lei Tang;Xin Xu;Zhen Wang~ 33:CN ~31:2023116748030 ~32:08/12/2023

2024/05041 ~ Complete ~54:A METHOD AND APPARATUS FOR MEASURING A RESONANCE FREQUENCY RESPONSE OF PASSIVE MICROWAVE DEVICES ~71:AFRICA NEW ENERGIES LIMITED, Villa Florita, East Road, St George’s Hill, United Kingdom ~72: ALI, Atif;KHAN, Saad Saleem;LARKIN, Stephen;OMAR, Muhammad;SAUD, Abdullah;USMAN, Muhammad~

2024/05059 ~ Complete ~54:DISPENSER FOR DRIP-DISPENSING A STERILE LIQUID PRODUCT CONTAINING A SURFACTANT ~71:Laboratoires Thea, 12 Rue Louis Blériot, Zone Industrielle du Brézet, CLERMONT-FERRAND 63100, FRANCE, France ~72: QUAGLIA, Benjamin~ 33:FR ~31:2112639 ~32:29/11/2021

2024/05064 ~ Complete ~54:RAPID SWAPPING SUPPORT ASSEMBLY WITH HIGH LOCKING STABILITY, AND ELECTRIC VEHICLE COMPRISING SAME ~71:AULTON NEW ENERGY AUTOMOBILE TECHNOLOGY CO., LTD., Block 1, Room 606, No. 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou, Guangdong 510700, People's Republic of China;SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD., Building 1, No.4766, Jiangshan Road, Nicheng Town, Pudong New Area Shanghai, 201308, People's Republic of China ~72: DANLIANG QIU;JIANPING ZHANG;MENG LIU;XINRUI YU~ 33:CN ~31:202111444383.8 ~32:30/11/2021;33:CN ~31:202111606763.7 ~32:26/12/2021;33:CN ~31:202111606781.5 ~32:26/12/2021;33:CN ~31:202111668034.4 ~32:31/12/2021

2024/05032 ~ Provisional ~54:AN AIR PURIFICATION DEVICE ~71:WERNER WATER RECYCLING (PTY) LTD., 26 Acacia Circle, DOWERGLEN EXT 3, Edenvale 1609, Gauteng, SOUTH AFRICA, South Africa ~72: VERMEULEN, Thomas Johannes~

2024/05048 ~ Complete ~54:PYRAZINE AMIDE DERIVATIVES ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: HUANG, Richard, Yichong;KIRRANE JR., Thomas Martin;MARX, Vanessa;MATA, Anne-Catherine;SARKO, Christopher, Ronald;TAFT, Benjamin Robert;YOKOKAWA, Fumiaki~ 33:US ~31:63/269,879 ~32:24/03/2022

2024/05035 ~ Complete ~54:METHOD FOR INHIBITING PLANT PATHOGENIC BACTERIA AND/OR CONTROLLING PLANT DISEASES, COMPOUND BACTERIOSTATIC AGENT AND APPLICATION ~71:Lingnan Normal University, 29 Cunjin Road, Chikan District, Zhanjiang City, Guangdong Province, 524037, People's Republic of China ~72: QU, Zheng;SONG, Xiuli;YAO, Yanpo;ZHANG, Chenchen;ZHANG, Pinmiao;ZHANG, Wu;ZHAO, Jingwen~

2024/05042 ~ Complete ~54:SILICON-RICH ALKALINE FEED ADDITIVE FOR IMPROVING SHEEP INTESTINAL FLORA AND PREPARATION METHOD THEREOF ~71:Fujian Vocational College of Agriculture, No. 116 Guishan, Hongxing Village, Jingyang Town, Fuqing City, Fujian Province, People's Republic of China;Jiangxi Agricultural University, No. 1101 Zhimin Avenue, Nanchang City, Jiangxi Province, People's Republic of China;Jiangxi Biotech Vocational College, 608 Nanlian Road, Qingyunpu District, Nanchang City, Jiangxi Province, People's Republic of China ~72: CAO Huabin;DAI Xueyan;GAO Feiyan;HU Guoliang;HUANG Jiamei;WANG Yun;XING Chenghong;XIONG Zhiwei;YANG Fan~

2024/05049 ~ Complete ~54:ANTI-TFR:GAA AND ANTI-CD63:GAA INSERTIONS FOR TREATMENT OF POMPE DISEASE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: AIMÉ-WILSON, Pascaline;BABB, Robert;BAIK, Andrew;CALAFATI, Philip;CYGNAR, Katherine;DUGAN, John;FORGET, Anthony;GAO, Min;KEATING, Nicole;PEFANIS, Evangelos;PRAGGASTIS, Maria;SABIN, Leah;SAMAI, Poulami~ 33:US ~31:63/306,040 ~32:02/02/2022;33:US ~31:63/369,902 ~32:29/07/2022

2024/05033 ~ Complete ~54:AN ANTI-HEELING DETECTION DEVICE FOR OPERATION AND MAINTENANCE SHIPS ~71:Nantong Institute of Technology, NO.211 Yongxing Road, Chongchuan District, Nantong City, Jiangsu Province, People's Republic of China;Nantong Saijun Marine Technology Co., LTD, Room 507, Building 10A, Zilang Science and Technology City, No.60 Chongzhou Avenue, Chongchuan District, Nantong City, Jiangsu Province, People's Republic of China ~72: Hu Xiaowen;Peng Shengnan;Xu Jiaxin;Zhao Rongqiang~

2024/05061 ~ Complete ~54:OPERATION MANAGEMENT AGENT SYSTEM ~71:YAZAKI CORPORATION, 8-15, Konan 1-Chome, Minato-ku, Tokyo, 1080075, Japan ~72: KOSUKE KOGO~ 33:JP ~31:2022-010339 ~32:26/01/2022

2024/05070 ~ Complete ~54:ENERGY STORAGE SYSTEM ~71:ALPHA ESS CO., LTD., Bi Hua Road 1086, Tongzhou Industrial Development Zone Nantong, Jiangsu, 226300, People's Republic of China ~72: HAIYAN ZHANG;JIAOJIAO SU;LIYAN SUN;SIWEI JIANG;SONGHUA ZHU;XIONGJIANG LIU;XIULI SI~ 33:CN ~31:202210834152.6 ~32:14/07/2022

2024/05052 ~ Complete ~54:METHOD FOR IMPROVING PRODUCTION EFFICIENCY OF DOUBLING MACHINE ~71:INNER MONGOLIA KING DEER CASHMERE CO.,LTD, South Dongheqiao, Bayantala Street, Donghe District, Baotou, 014040, People's Republic of China ~72: Hongmei XIAO;Hui DING;Jiancheng QIAO;Jianli GUO;Shouming ZHANG;Xinquan WANG~ 33:CN ~31:202311338128.4 ~32:16/10/2023

2024/05054 ~ Complete ~54:SRS POSITIONING BWP IN RRC INACTIVE OR IDLE POSITIONING ~71:QUALCOMM Incorporated, Attn: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: CABRERA MERCADER, Carlos;GAAL, Peter;HSU, Chun-Hao;MANOLAKOS, Alexandros;RYU, Jae Ho;WU, Yongle~ 33:US ~31:63/266,627 ~32:10/01/2022;33:US ~31:17/804,528 ~32:27/05/2022

2024/05069 ~ Complete ~54:ENERGY STORAGE SYSTEM, CONTROL METHOD THEREOF, DEVICE, ELECTRONIC DEVICE, AND STORAGE MEDIUM ~71:ALPHA ESS CO., LTD., Bi Hua Road 1086, Tongzhou Industrial Development Zone Nantong, Jiangsu, 226300, People's Republic of China ~72: HAIYAN ZHANG;LIYAN SUN;SIWEI JIANG;SONGHUA ZHU;XIONGJIANG LIU;XIULI SI~ 33:CN ~31:202210806591.6 ~32:08/07/2022

2024/05036 ~ Complete ~54:SYSTEMS AND METHODS FOR PROCESSING REAL-TIME VIDEO FROM A MEDICAL IMAGE DEVICE AND DETECTING OBJECTS IN THE VIDEO ~71:COSMO ARTIFICIAL INTELLIGENCE - AI LIMITED, Riverside II, Sir John Rogerson's Quay, Dublin,, Ireland ~72: EVANGELISTI, Giulio;NAVARI, Flavio;NGO DINH, Nhan~ 33:US ~31:16/008,015 ~32:13/06/2018;33:EP ~31:18180572.2 ~32:28/06/2018

2024/05055 ~ Complete ~54:A COMPONENT FOR A DELIVERY SYSTEM AND A METHOD AND APPARATUS FOR MANUFACTURING A COMPONENT FOR A DELIVERY SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: GRISHCHENKO, Andrei;HEPWORTH, Richard~ 33:GB ~31:2119095.4 ~32:29/12/2021

2024/05058 ~ Complete ~54:PLANT-BASED MILK WHIPPABLE EMULSION ~71:Rich Products Corporation, One Robert Rich Way, BUFFALO 14213, NY, USA, United States of America ~72: LEYVA GONZALEZ, Aida Elizabeth;LIPUMA, Lorna~ 33:US ~31:63/289,375 ~32:14/12/2021

2024/05071 ~ Complete ~54:INTERLOCKING DEVICE, ENERGY STORAGE SYSTEM COMPRISING SAME, AND CONTROL METHOD AND DEVICE FOR ENERGY STORAGE SYSTEM ~71:ALPHA ESS CO., LTD., Bi Hua Road 1086, Tongzhou Industrial Development Zone Nantong, Jiangsu, 226300, People's Republic of China ~72: HAIYAN ZHANG;JINTAO MA;LIYAN SUN;XIONGJIANG LIU;XIULI SI~ 33:CN ~31:202210954786.5 ~32:10/08/2022

2024/05047 ~ Complete ~54:CEACAM5 ADC–ANTI-PD1/PD-L1 COMBINATION THERAPY ~71:SANOFI, 46 Avenue de la Grande, France ~72: BENSFIA, Samira;CHADJAA, Mustapha;DENNIS, Phillip;LE BAIL, Nathalie;SOUFFLET, Christine~ 33:EP ~31:21306690.5 ~32:02/12/2021;33:US ~31:63/383,337 ~32:11/11/2022

2024/05046 ~ Complete ~54:FERROUS ALLOY POWDER FOR ADDITIVE MANUFACTURING ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Frédéric BONNET;Laura DEL RIO FERNANDEZ;Luis Miguel SANZ MORAL;Rosalía REMENTERIA FERNANDEZ;Valérie DAESCHLER~ 33:IB ~31:PCT/IB2022/050815 ~32:31/01/2022

2024/05051 ~ Complete ~54:EGG TART KNITTED FABRIC STRUCTURE AND KNITTING METHOD THEREOF ~71:INNER MONGOLIA KING DEER CASHMERE CO.,LTD, South Dongheqiao, Bayantala Street, Donghe District, Baotou, 014040, People's Republic of China ~72: Haisheng ZHENG;Xinquan WANG~ 33:CN ~31:202310433032.X ~32:20/04/2023

2024/05056 ~ Complete ~54:VOLTAGE LIMITING DEVICE FOR CONSTANT CURRENT CIRCUITS ~71:ADB Safegate BV, Leuvensesteenweg 585, ZAVENTEM 1930, BELGIUM, Belgium ~72: DE VLEESCHAUWER, Eric;GRIMM, Florian;SAUVAGE, Nicolas~ 33:EP ~31:22151680.0 ~32:14/01/2022

2024/05060 ~ Complete ~54:HIGH-EFFICIENCY MACHINE ~71:MORAN, Matthew, 22 Curtis Road, VERNON 13476, NY, USA, United States of America ~72: MORAN, Matthew~ 33:US ~31:63/285,380 ~32:02/12/2021

2024/05066 ~ Complete ~54:SELECTIVE LEACHING ~71:UMICORE, Rue du Marais 31, 1000, Brussels, Belgium ~72: BART KLAASEN;JOS DENISSEN~ 33:EP ~31:21211405.2 ~32:30/11/2021

2024/05072 ~ Complete ~54:ELECTRIC VEHICLE BATTERY SWAPPING ASSEMBLY AND BATTERY SWAPPING STATION ~71:AULTON NEW ENERGY AUTOMOBILE TECHNOLOGY CO., LTD., Block 1, Room 606, No. 1 Yichuang Street, China-Singapore Guangzhou Knowledge City, Huangpu District, Guangzhou, Guangdong 510700, People's Republic of China;SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD., Building 1, No.4766, Jiangshan Road, Nicheng Town, Pudong New Area Shanghai, 201308, People's Republic of China ~72: CHUNHUA HUANG;DANLIANG QIU;JIANPING ZHANG;MING ZHU;XINRUI YU~ 33:CN ~31:202111444383.8 ~32:30/11/2021;33:CN ~31:202111606763.7 ~32:26/12/2021;33:CN ~31:202111606781.5 ~32:26/12/2021;33:CN ~31:202111668032.5 ~32:31/12/2021

2024/05039 ~ Complete ~54:VENTILATION SYSTEM WITH CLEANING FUNCTION FOR TUNNEL CONSTRUCTION, AND USING METHOD THEREFOR ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: AN, Dingchao;LIU, Heng;LV, Dawei;REN, Mingyang;SHEN, Tong;SONG, Shuaiqi;WANG, Qingguo~

2024/05063 ~ Complete ~54:HPPD INHIBITOR HERBICIDE TOLERANT PLANT ~71:ADVANTA HOLDINGS B.V., Claudius Prinsenlaan 144A, 4818, CP Breda, Netherlands ~72: HERNAN GABRIEL BONDINO;MARIA DE LA PAZ ARRIETA MONTIEL;PEDRO ALEJANDRO PARDO~ 33:US ~31:63/294,114 ~32:28/12/2021

2024/05067 ~ Complete ~54:ARYLTETRAHYDROPYRIDAZINE DERIVATIVE OR SALT THEREOF AND INSECTICIDAL AGENT CONTAINING THE COMPOUND AND METHOD FOR USING SAME ~71:NIHON NOHYAKU CO., LTD., 19-8, Kyobashi 1-chome Chuo-ku, Tokyo, 1048386, Japan ~72: AKIHIRO ANDO;HINOKI OIKAWA;HIROTO YAMADA;IKKI YONEMURA;KOJI TANAKA;NAOYA FUJITA;RYOSUKE TANAKA;SHUNSUKE MATSUI;TAIKI YOKOI;TAKAYUKI YAMADA~ 33:JP ~31:2021-214987 ~32:28/12/2021

2024/05031 ~ Provisional ~54:A CUTTER ASSEMBLY FOR A MINERAL PROCESSING SEPARATOR ~71:PAULCO (PROPRIETARY) LIMITED, Portion 50, Farm Kromrivier JQ347, RUSTENBURG 0300, North West Province, SOUTH AFRICA, South Africa ~72: KRUGER, Paul~

2024/05037 ~ Complete ~54:FEED COMPOSITION CONTAINING BAICALIN FOR RELIEVING TOXICITY OF HEAVY METAL VANADIUM IN DUCKS ~71:Fujian Vocational College of Agriculture, No. 116 Guishan, Hongxing Village, Jingyang Town, Fuqing City, Fujian Province, People's Republic of China;Jiangxi Agricultural University,

No. 1101 Zhimin Avenue, Nanchang City, Jiangxi Province, People's Republic of China;Jiangxi Biotech Vocational College, 608 Nanlian Road, Qingyunpu District, Nanchang City, Jiangxi Province, People's Republic of China ~72: CAO Huabin;DAI Xueyan;GAO Feiyan;HU Guoliang;HUANG Jiamei;WANG Yun;XING Chenghong;XIONG Zhiwei;YANG Fan~

2024/05057 ~ Complete ~54:NEW BENZIMIDAZOLE PYRIDINE DERIVATIVES ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: AWALE, Mahendra;BERCHTOLD, Stefan;CHARPENTIER, Julie;COLOMBANO, Héloïse Marie Albine;DECORET, Guillaume;GROEBKE ZBINDEN, Katrin;GROSSMANN, Nicole;HAAP, Wolfgang;HARRIS, Philip Anthony;HERT, Jérôme;KALLENBACH, Jonah Milton;KRAMER, Christian;KREIS, Lukas;KRUMM, Danny;LUCAS CABRE, Xavier;MANEVSKI, Nenad;PFLIEGER, Philippe;POURMOUSA ABKENAR, Amir Mohsen;RAUBER, Etienne;TAN, Dazhi;WACH, Jean-Yves;WERMUTH, Roger~ 33:EP ~31:22152225.3 ~32:19/01/2022

2024/05073 ~ Complete ~54:PROCESS CARTRIDGE, PROCESS CARTRIDGE ASSEMBLY, AND IMAGE FORMING DEVICE ~71:ZHUHAI PANTUM ELECTRONICS CO., LTD., Building 02, Building 06, Building 08, No. 888, Shengping Avenue, People's Republic of China ~72: SHAO, Zhe;XIA, Xiangchao;YANG, Hongjian~ 33:CN ~31:202123372434.9 ~32:29/12/2021;33:CN ~31:202211217029.6 ~32:30/09/2022

2024/05053 ~ Complete ~54:INFORMATION PROCESSING DEVICE, INFERENCE DEVICE, MACHINE LEARNING DEVICE, INFORMATION PROCESSING METHOD, INFERENCE METHOD, AND MACHINE LEARNING METHOD ~71:Toyo Seikan Group Holdings, Ltd., 2-18-1, Higashi-Gotanda, Shinagawa-ku, TOKYO 1418627, JAPAN, Japan ~72: FURUKAWA , Satoshi;KUNIMASA, Hidehiko;OKAMURA , Hiroshi;TANABE , Suguru~ 33:JP ~31:2022-051257 ~32:28/03/2022

2024/05045 ~ Complete ~54:METHOD FOR CONTROLLING QUALITY OF REHMANNIAE RADIX PRAEPARATA IN DIHUANG PILLS PRESCRIPTION ~71:Henan Integrative Medicine Hospital, No. 7, Chengbei Road, Jinshui District, Zhengzhou City, Henan Province, 450000, People's Republic of China ~72: Ge Wenjing;Li Gengsheng;Liang Ruifeng;Liu Ming;Sun Wei;Tang Suqin;Wang Huisen~ 33:CN ~31:2023108233225 ~32:06/07/2023

2024/05065 ~ Complete ~54:A METHOD FOR IRON AND COPPER REMOVAL FROM SOLUTION USING METALLIC REAGENTS ~71:UMICORE, Rue du Marais 31, 1000, Brussels, Belgium ~72: BART KLAASEN~ 33:EP ~31:21211405.2 ~32:30/11/2021

2024/05068 ~ Complete ~54:PILE FOUNDATION CONSTRUCTION METHOD ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9, Chunxiu Road, Dongcheng District, Beijing 100027, People's Republic of China ~72: XIAOQIANG ZHANG~ 33:CN ~31:2023113522672 ~32:19/10/2023

. - APPLIED ON 2024/06/28 -

2024/05097 ~ Complete ~54:A DRIVER MISTAKE RESISTANT (DMR) SYSTEM FOR A VEHICLE AND METHODS OF OPERATION THEREOF ~71:VE COMMERCIAL VEHICLES LTD., 102, Industrial Area 01, Pithampur, Madhya Pradesh District, India ~72: AGARWAL, Sachin;SANDOOJA, Amit;TRIPATHI, Naveen Pratap~ 33:IN ~31:202121049591 ~32:29/11/2021

2024/05100 ~ Complete ~54:ARRANGEMENT AND METHOD FOR AUTOMATICALLY DETECTING ROLLER REPLACEMENT IN BELT CONVEYORS ~71:BOSCH SOLUÇÕES INTEGRADAS BRASIL LTDA, Via Anhanguera, Km 98, Jd. Eulina, Brazil ~72: BASSO BRANDANI, Bruno;CARRIL PUIG, Tiago~ 33:BR ~31:1020210261544 ~32:22/12/2021

2024/05113 ~ Complete ~54:ADDITIVE MANUFACTURING OF STRUCTURES FOR USE IN A THERMOCHEMICAL FUEL PRODUCTION PROCESS ~71:ETH ZÜRICH, ETH Transfer, Rämistrasse 101, 8092, Zürich, Switzerland ~72: ALDO STEINFELD;ANDRÉ STUDART;FABIO BARGARDI;NOËMI KAUFMANN;RAFAEL NICOLOSI LIBANORI;SABRINA KISTLER;SEBASTIAN SAS BRUNSER~ 33:EP ~31:21216570.8 ~32:21/12/2021

2024/05118 ~ Complete ~54:SLIDABLE CURRENT COLLECTOR AND METHOD FOR CONTACTING CONDUCTOR RAIL ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 3501 N. FM Hwy 1417, Denison, Texas, 75020, United States of America ~72: IGOR STRASHNY;ROOPA RAJESH~ 33:US ~31:17/578,072 ~32:18/01/2022

2024/05114 ~ Complete ~54:POSITIONING SCHEMES IN WIRELESS COMMUNICATIONS ~71:ZTE CORPORATION, ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan, Shenzhen, Guangdong, 518057, People's Republic of China ~72: CHUANGXIN JIANG;CONG WANG;FOCAI PENG;JUNPENG LOU;MENGZHEN LI;QI YANG~

2024/05117 ~ Complete ~54:METHOD AND DEVICE FOR INSPECTING HOT GLASS CONTAINERS WITH A VIEW TO IDENTIFYING DEFECTS ~71:TIAMA, 215 chemin du Grand Revoyet, 69230 Saint-Genis-Laval, France ~72: JULIEN FOUILLOUX;OLIVIER COLLE;SYLVAIN GOURGEON~ 33:FR ~31:FR2114685 ~32:30/12/2021

2024/05142 ~ Complete ~54:PARP7 INHIBITORS ~71:GILEAD SCIENCES, INC., 333 Lakeside Drive, Foster City, United States of America ~72: CHANDRASEKHAR, JAYARAMAN;CHANG, JONAH J.;CURRIE, KEVIN S.;HOLMBO, STEPHEN D.;JACOBSEN, JESSE M.;KUKLA, DAVID L.;LEE, SEUNG H.;MOAZAMI, YASAMIN;PATEL, LEENA B.;PAUL, THOMAS J.;PERREAULT, STEPHANE;SALVO, PATRICK J.;TREIBERG, JENNIFER A.;WEAVER, HEATH A.~ 33:US ~31:63/304,093 ~32:28/01/2022;33:US ~31:63/378,647 ~32:06/10/2022;33:US ~31:63/385,303 ~32:29/11/2022

2024/05081 ~ Complete ~54:PHASE ANALYSIS METHOD FOR COBALT IN COPPER-NICKEL DEPOSIT ~71:Qinghai Geological and Mineral Testing Center (Qinghai Province Eco-environmental Geology Inspection and Testing Center), Qinghai Geological and Mineral Testing Center, Guangning Road, Chengzhong District, Xining City, Qinghai Province, 810000, People's Republic of China ~72: CHENG, Li;LIU, Dao;SHI, Hua;SU, Yuping;ZHANG, Jianmin;ZHANG, Ming;ZHANG, Qiyun;ZHAO, Yuqing;ZHU, Jiajia;ZHU, Lin~

2024/05096 ~ Complete ~54:METHODS AND COMPOSITIONS FOR PREVENTING OR DELAYING TYPE 1 DIABETES ~71:PROVENTION BIO, INC., 55 Broad Street, 2nd Floor Red Bank, United States of America ~72: LEON, Francisco;RAMOS, Eleanor, L.~ 33:US ~31:63/345,365 ~32:24/05/2022;33:US ~31:63/367,992 ~32:08/07/2022;33:US ~31:63/382,382 ~32:04/11/2022;33:TW ~31:112119143 ~32:23/05/2023;33:US ~31:18/321,964 ~32:23/05/2023

2024/05102 ~ Complete ~54:BLOCK-LEVEL REFERENCE PICTURES ADAPTATION FOR VIDEO CODING ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: HUANG, Han;KARCZEWICZ, Marta;SEREGIN, Vadim~ 33:US ~31:63/266,389 ~32:04/01/2022;33:US ~31:63/316,102 ~32:03/03/2022;33:US ~31:63/324,926 ~32:29/03/2022;33:US ~31:63/343,980 ~32:19/05/2022;33:US ~31:18/068,809 ~32:20/12/2022

2024/05112 ~ Complete ~54:USE OF PASSIVE COOLING MATERIALS TO GENERATE FREE CONVECTIVE AIR FLOW ~71:HAL, P. GREENBERGER, 4 Oxbow Rd., Natick, Massachusetts, 01760, United States of America ~72: HAL P GREENBERGER~

2024/05119 ~ Complete ~54:PYRAZINE COMPOUNDS AS INHIBITORS OF FLT3 ~71:BIOMEA FUSION, INC., 900 Middlefield Road, 4th Floor Redwood City, California 94063, United States of America ~72: AMNA TRINITY-

TURJUMAN ADAM;DAVID SPERANDIO;JAMES T PALMER;NAN-HORNG LIN;NEIL HOWARD SQUIRES;RAVINDRA B UPASANI;SOLOMON B UNGASHE;THOMAS BUTLER;THORSTEN A KIRSCHBERG;THU PHAN;XIAODONG WANG;YONGLI SU~ 33:US ~31:63/295,494 ~32:30/12/2021;33:US ~31:63/316,939 ~32:04/03/2022;33:US ~31:63/364,860 ~32:17/05/2022;33:US ~31:PCT/US2022/040953 ~32:19/08/2022;33:US ~31:63/386,772 ~32:09/12/2022

2024/05109 ~ Complete ~54:NEW ANTIVIRAL TRIAZOLE DERIVATIVES, THEIR SYNTHESIS AND THEIR USE FOR TREATMENT OF MAMMALIAN VIRAL INFECTIONS ~71:Collaborations Pharmaceuticals, Inc, 5616 Hilltop Needmore Road, FUQUAY VARINA 27526, NC, USA, United States of America;Federal Research Center Fundamentals of Biotechnology Russian Academy of Science, Leninsky prospect, 33, building 2, MOSCOW 115035, RUSSIA, Russian Federation ~72: EKINS, Sean;LANE, Thomas R.;MAKAROV, Vadim;RIABOVA, Olga~

2024/05120 ~ Complete ~54:PHARMACEUTICAL COMPOSITION ~71:NEUROPRO THERAPEUTICS, INC., PO Box 698 Yachats, Oregon 97498, United States of America ~72: DARYL W HOCHMAN~ 33:US ~31:63/295,076 ~32:30/12/2021;33:US ~31:63/477,264 ~32:27/12/2022

2024/05080 ~ Complete ~54:CUSTOMER MANAGEMENT SYSTEM ~71:EATEZY (PTY) LTD, 138 WEST STREET, South Africa ~72: JONISHIA NETTY THOMAS~ 33:ZA ~31:2023/06711 ~32:30/06/2023

2024/05086 ~ Complete ~54:COMPOSITIONS AND METHODS FOR RNA-ENCODED DNA-REPLACEMENT OF ALLELES ~71:PAIRWISE PLANTS SERVICES, INC., 807 East Main Street, Suite 4-100, Durham, United States of America ~72: HUMMEL, Aaron;KIM, Yongjoo;LAWIT, Shai Joshua;SCHWARK, David;WATTS, Joseph Matthew~ 33:US ~31:62/930,836 ~32:05/11/2019

2024/05099 ~ Complete ~54:WIRELESS RESOURCE SCHEDULING METHOD AND APPARATUS, AND STORAGE MEDIUM ~71:RUIJIE NETWORKS CO., LTD., Building 19, Juyuanzhou Industrial Park, No. 618 Jinshan Road, People's Republic of China ~72: LIU, Zhongdong;MAO, Kaibin;YU, Chenglong;ZHOU, Zhaoxian~ 33:CN ~31:202111617276.0 ~32:27/12/2021;33:CN ~31:202211615278.0 ~32:15/12/2022

2024/05075 ~ Provisional ~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~

2024/05079 ~ Complete ~54:ACID-ALPHA GLUCOSIDASE VARIANTS AND USES THEREOF ~71:ASSOCIATION INSTITUT DE MYOLOGIE, 47, BOULEVARD DE L'HÔPITAL, 75013 PARIS, FRANCE, France;CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3 RUE MICHEL ANGE, 75016 PARIS, FRANCE, France;GENETHON, 1 BIS, RUE DE L'INTERNATIONALE, 91000 EVRY, FRANCE, France;INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), 101 RUE DE TOLBIAC, 75013 PARIS, FRANCE, France;SORBONNE UNIVERSITÉ, 21 RUE DE L'ÉCOLE DE MÉDECINE, 75006 PARIS, FRANCE, France ~72: COLELLA, Pasqualina;MINGOZZI, Federico;PUZZO, Francesco;RONZITTI, Giuseppe~ 33:EP ~31:16306149.2 ~32:12/09/2016

2024/05084 ~ Complete ~54:HIGH-PRESSURE EGR SYSTEM FOR SUPERCHARGED ENGINE ~71:JinZhong University, No.199, Wenhua Street, Yuci District, Jinzhong City, Shanxi Province, People's Republic of China ~72: Ma Chaochen;Wang Zhihui;Zhu Fei~ 33:CN ~31:2024105453389 ~32:30/04/2024

2024/05107 ~ Complete ~54:INTEGRATION SYSTEM OF SENSING CONSUMABLES FOR WEARABLE DEVICES ~71:Onalabs Inno-Hub, Av. Parc Tecnològic numero 3, Centro de Empresas Parc Tecnològic del Vallès, CERDANYOLA DEL VALLES 08290, SPAIN, Spain ~72: AGUILAR TORÁN, Javier;COLMENA RUBIAL, Valeria;MUÑOZ PASCUAL, Francesc Xavier;PUNTER VILLAGRASA, Jaime;RABOST GARCÍA, Genís~ 33:EP ~31:21383241.3 ~32:30/12/2021

2024/05122 ~ Complete ~54:BOOSTING SARS-COV-2 IMMUNITY WITH A LENTIVIRAL-BASED NASAL VACCINE ~71:THERAVECTYS, Bâtiment Pasteur Biotop 28 rue du Docteur Roux, 75724, Paris Cedex 15, France ~72: BENJAMIN VESIN;INGRID FERT;JODIE LOPEZ;LALEH MAJLESSI;MARYLINE BOURGINE;PIERRE CHARNEAU~ 33:IB ~31:PCT/IB2022/000035 ~32:17/01/2022

2024/05093 ~ Complete ~54:MODULATION OF HEPATITIS B VIRUS (HBV) EXPRESSION ~71:AUSPERBIO THERAPEUTICS INC., 3 East Third Ave., Suite 200, San Mateo, United States of America ~72: CHENG, Guofeng;YANG, Cheng Yong~ 33:US ~31:63/298,092 ~32:10/01/2022

2024/05126 ~ Complete ~54:SYSTEM AND METHOD FOR JOINING POWER RAIL SEGMENTS ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 3501 S. FM Hwy 1417, United States of America ~72: STRASHNY, Igor~ 33:US ~31:17/563,359 ~32:28/12/2021

2024/05104 ~ Complete ~54:METHODS FOR DISTRIBUTED DATA MANAGEMENT ~71:WESTLAKE, Colin Phillip, 78 Richborne Terrace, LONDON SW8 1AX, UNITED KINGDOM, United Kingdom ~72: WESTLAKE, Colin Phillip~ 33:US ~31:63/284,816 ~32:01/12/2021

2024/05125 ~ Complete ~54:RELOCATABLE BASE FOR ELEVATED POWER RAILS AND METHOD OF DEPLOYMENT ~71:CATERPILLAR GLOBAL MINING EQUIPMENT LLC, 3501 S. FM Hwy 1417, United States of America ~72: STRASHNY, Igor;WELLER, Brian Robert~ 33:US ~31:17/563,317 ~32:28/12/2021

2024/05085 ~ Complete ~54:A MEASURING DEVICE FOR CONSTRUCTION PROJECT MANAGEMENT ~71:Heilongjiang Institute of Construction Technology, No.999, Xueyuan Road, Hulan District, Harbin City, Heilongjiang Province, 150025, People's Republic of China ~72: Sheng Guan~ 33:CN ~31:202421399152.9 ~32:18/06/2024

2024/05091 ~ Complete ~54:AN EXTERNAL APPLICATION COMBINATION FOR WARMING THE STOMACH AND STOPPING PAIN, A STICKING PLASTER FOR WARMING THE STOMACH AND STOPPING PAIN AND PREPARATION METHODS ~71:AFFILIATED HOSPITAL OF SHAANXI UNIVERSITY OF CHINESE MEDICINE, Affiliated Hospital of Shaanxi University of Chinese Medicine, No. 2 Weiyang West Road, Qindu District, Xianyang City, People's Republic of China ~72: LI, Li;LIU, Fangfang;MU, Heng;SHA, Zhihui;WANG, Jiehong;WANG, Qian;WANG, Xianning;XU, Yongpan;YANG, Yanyan;YOU, Jinzhi;ZHAO, Lizhi~ 33:CN ~31:2024101542345 ~32:02/02/2024

2024/05074 ~ Provisional ~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~

2024/05076 ~ Provisional ~54:MODULAR/COLLAPSIBLE/MOBILE WOODEN LAPAROSCOPIC TRAINING SIMULATOR WITH COLLAPSIBLE TROLLEY ~71:ADQTXO, 90 Honeysuckle, South Africa;Yasine Barends, 90 Honeysuckle, South Africa ~72: Yasine Barends~

2024/05078 ~ Complete ~54:JUJUBE HARVESTING APPARATUS WITH ADJUSTABLE SUCTION VECTOR AND METHOD THEREFOR ~71:SHIHEZI UNIVERSITY, No.221, North Fourth Road, Shihezi City, People's Republic of China ~72: CHAO, Xuewei;CHEN, Jiguo;DING, Longpeng;JIANG, Jiashun;LI, Hongwei;LI, Jingbin;LI, Yang;LIU, Changguo;NIE, Jing;WANG, Xianfei;WANG, Yi;YUAN, Yichen~ 33:CN ~31:202310856425.1 ~32:12/07/2023

2024/05083 ~ Complete ~54:QUERCETIN-CONTAINING DUCK FEED WITH HEAVY METAL COPPER TOXICITY RESISTANCE AND PREPARATION METHOD THEREOF ~71:Fujian Vocational College of Agriculture, No. 116 Guishan, Hongxing Village, Jingyang Town, Fuqing City, Fujian Province, People's Republic

of China;Jiangxi Agricultural University, No. 1101 Zhimin Avenue, Nanchang City, Jiangxi Province, People's Republic of China;Jiangxi Biotech Vocational College, 608 Nanlian Road, Qingyunpu District, Nanchang City, Jiangxi Province, People's Republic of China ~72: CAO Huabin;DAI Xueyan;GAO Feiyan;HU Guoliang;HUANG Jiamei;WANG Yun;XING Chenghong;XIONG Zhiwei;YANG Fan;ZHANG Caiying~

2024/05089 ~ Complete ~54:METHOD OF, AND SYSTEM FOR, PREDICTING SOLAR IRRADIANCE ~71:TSHWANE UNIVERSITY OF TECHNOLOGY, Building 20, Office 133 Staatsartillery Road, Pretoria, Gauteng, 0002, South Africa ~72: SIPHO CALVIN MLANGENI~ 33:ZA ~31:2023/06230 ~32:14/06/2023

2024/05094 ~ Complete ~54:METHOD AND DEVICE FOR DETERMINING WHETHER AN OILSEED, A NUT, IN PARTICULAR A HAZELNUT, OR A SEED IS RANCID ~71:INSORT GMBH, Berndorf 166, Austria ~72: SCHEIBELMASSER, Anton;STAUBMANN, Philipp~ 33:AT ~31:A 50072/2022 ~32:07/02/2022

2024/05108 ~ Complete ~54:CONJUGATES BINDING PHOSPHATIDYLSERINE AND TOLL-LIKE RECEPTORS ~71:CanBas Co., Ltd., 2-2-1, Otemachi, NUMAZU 410-0801, SHIZUOKA, JAPAN, Japan ~72: FRIEDMAN, Jonathan M.;HIBINO, Toshiyuki;KAWABE, Takumi;KIBE, Tatsuya;SATO, Takuji;SUDA, Chikako;YAMAMOTO, Sayaka~ 33:US ~31:63/295,462 ~32:30/12/2021

2024/05121 ~ Complete ~54:COMBINATION OF 8-CHLORO-N-(4-(TRIFLUOROMETHOXY)PHENYL)QUINOLIN-2-AMINE AND ITS DERIVATIVES WITH A S1P RECEPTOR MODULATOR ~71:ABIVAX, 7-11 Boulevard Haussmann, 75009, Paris, France ~72: AUDE GARCEL;DIDIER SCHERRER;JAMAL TAZI;PHILIPPE POULETTY~ 33:EP ~31:22305029.5 ~32:13/01/2022

2024/05105 ~ Complete ~54:MANGANESE TITANATE-CONTAINING FISCHER-TROPSCH CATALYST AND METHODS FOR MAKING AND USING SAME ~71:BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James~ 33:EP ~31:21217611.9 ~32:23/12/2021

2024/05124 ~ Complete ~54:DISCERNIBLE CELL SURFACE PROTEIN VARIANTS OF CD45 FOR USE IN CELL THERAPY ~71:CIMEIO THERAPEUTICS AG, Aeschenvorstadt 36 4051, Switzerland;UNIVERSITÄT BASEL, Petersgraben 35 4003, Switzerland ~72: CAMUS, Anna;DEVAUX, Anna;DURZYNSKA, Izabela;GARAUDE, Simon;HAYDN, Anna;JEKER, Lukas;LEPORE, Rosalba;MATTER MARONE, Romina;SINOPOLI, Alessandro;URLINGER, Stefanie~ 33:EP ~31:21217465.0 ~32:23/12/2021

2024/05087 ~ Complete ~54:COMPOSITIONS AND METHODS FOR RNA-ENCODED DNA-REPLACEMENT OF ALLELES ~71:PAIRWISE PLANTS SERVICES, INC., 807 East Main Street, Suite 4-100, Durham, United States of America ~72: HUMMEL, Aaron;KIM, Yongjoo;LAWIT, Shai Joshua;SCHWARK, David;WATTS, Joseph Matthew~ 33:US ~31:62/930,836 ~32:05/11/2019

2024/05116 ~ Complete ~54:METHOD FOR DETECTING SEGREGATION DEGREE OF ASPHALT MIXTURE ~71:CHINA FIRST HIGHWAY ENGINEERING COMPANY LTD, Shitong International Building, Zhoujiajing, Guanzhuang, Chaoyang District, Beijing, 100024, People's Republic of China;CHINA FIRST HIGHWAY ENGINEERING COMPANY OVERSEAS LTD., Shitong International Building, Zhoujiajing, Guanzhuang, Chaoyang District Beijing, 100024, People's Republic of China ~72: XIA XIAO;YANDONG ZHOU;YUGUO WANG~ 33:CN ~31:202111576309.1 ~32:21/12/2021

2024/05095 ~ Complete ~54:DEUTERIUM-ENRICHED PIPERIDINYL-METHYL-PURINE AMINES AND RELATED COMPOUNDS AND THEIR USE IN TREATING DISEASES AND CONDITIONS ~71:K36 THERAPEUTICS, INC., 1 Main St., Cambridge, United States of America ~72: CONNOLLY, Terrence, Joseph;LEWIS, Chad, Arthur~ 33:US ~31:63/296,676 ~32:05/01/2022

2024/05103 ~ Complete ~54:COMPOSITION COMPRISING PD-L1 ANTIGEN-BINDING FRAGMENT AND USE THEREOF ~71:Jiangsu Alphamab Biopharmaceuticals Co., Ltd., No.175 Fangzhou Road, SIP, SUZHOU 215000, JIANGSU, CHINA (P.R.C.), People's Republic of China;Suzhou Alphamab Co., Ltd., Building C23, BioBay, NO.218 Xinghu Street, SIP, SUZHOU 215125, JIANGSU, CHINA (P.R.C.), People's Republic of China ~72: GUO, Kangping;HU, Hongqin;HUANG, Yan;WU, Yuanli;XU, Ting;YUN, Lihong~ 33:CN ~31:202111112052.4 ~32:18/09/2021

2024/05101 ~ Complete ~54:BULK DOSING SYSTEM ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: GEBS, Jonathan;JARISCH, Christian;PRIESTER, Laura;SCORRANO, Lucio~ 33:EP ~31:21213647.7 ~32:10/12/2021

2024/05111 ~ Complete ~54:NEUTRALIZING ANTIBODIES AGAINST SARS-RELATED CORONAVIRUS ~71:UNIVERSITÄT ZU KÖLN, Albertus-Magnus-Platz , 50923, Köln, Germany ~72: FLORIAN KLEIN;HENNING GRÜLL;KANIKA VANSHYLLA~ 33:EP ~31:21211717.0 ~32:01/12/2021;33:EP ~31:21215292.0 ~32:16/12/2021

2024/05088 ~ Complete ~54:POLYPEPTIDE-ANTIGEN CONJUGATES WITH NON-NATURAL AMINO ACIDS ~71:VAXCYTE, INC., 825 Industrial Road, Suite 300, San Carlos, California, 94070, United States of America ~72: JEFFERY FAIRMAN;JON HEINRICHS;WEI CHAN~ 33:US ~31:62/441,115 ~32:30/12/2016;33:US ~31:62/530,803 ~32:10/07/2017;33:US ~31:62/568,201 ~32:04/10/2017;33:US ~31:62/591,160 ~32:27/11/2017

2024/05077 ~ Provisional ~54:BBQ GRID TOOL ~71:DANDRE FRANK NEL, 280 OLIVIER STREET, South Africa;WILDRE FOURIE, 446 KINROSS AVENUE, South Africa ~72: DANDRE FRANK NEL;WILDRE FOURIE~

2024/05090 ~ Complete ~54:METHOD FOR DETECTING JUJUBE WATER-CONTENT LEVEL BASED ON HYPERSPECTRAL IMAGE RECONSTRUCTED BY RGB IMAGE ~71:SHIHEZI UNIVERSITY, No.221, North Fourth Road, Shihezi City, People's Republic of China ~72: CHAO, Xuewei;CHEN, Jiguo;DING, Longpeng;JIANG, Jiachen;LI, Hongwei;LI, Jingbin;LI, Yang;LIU, Changguo;LIU, Yajie;NIE, Jing~ 33:CN ~31:202311032473.5 ~32:15/08/2023

2024/05082 ~ Complete ~54:PROCYANIDIN-CONTAINING FEED FOR IMPROVING INTESTINAL MICROBIAL FLORA OF SHEEP AND PREPARATION METHOD THEREOF ~71:Fujian Vocational College of Agriculture, No. 116 Guishan, Hongxing Village, Jingyang Town, Fuqing City, Fujian Province, People's Republic of China;Jiangxi Agricultural University, No. 1101 Zhimin Avenue, Nanchang City, Jiangxi Province, People's Republic of China;Jiangxi Biotech Vocational College, 608 Nanlian Road, Qingyunpu District, Nanchang City, Jiangxi Province, People's Republic of China ~72: CAO Huabin;DAI Xueyan;GAO Feiyan;HU Guoliang;HUANG Jiamei;WANG Yun;XING Chenghong;XIONG Zhiwei;YANG Fan~

2024/05098 ~ Complete ~54:SIGNALING COMMUNICATION DEVICE TRANSMISSION TIMING ERROR GROUP ASSOCIATION FOR UPLINK TIME DIFFERENCE OF ARRIVAL ~71:TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE-164 83, Sweden ~72: JIANG, Xiaolin;LYAZIDI, Yazid;MUNIER, Florent;MURUGANATHAN, Siva;SHREEVASTAV, Ritesh~ 33:US ~31:63/297,183 ~32:06/01/2022

2024/05115 ~ Complete ~54:VOLATILE SUBSTANCE DEVICE, USES AND METHODS RELATING TO SAME ~71:V. MANE FILS, 620 route de Grasse, 06620, Le Bar-sur-Loup, France ~72: AUDREY TARDIEU;JEAN-MICHEL HANNETEL~ 33:EP ~31:22305039.4 ~32:17/01/2022

2024/05092 ~ Complete ~54:FRONT STRUCTURE FOR AN AUTOMOTIVE VEHICLE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Gagan TANDON;Nachiket GOKHALE;Nimish DESHPANDE~ 33:IB ~31:PCT/IB2022/050720 ~32:27/01/2022

2024/05110 ~ Complete ~54:DISCERNIBLE CELL SURFACE PROTEIN VARIANTS OF CD117 FOR USE IN CELL THERAPY ~71:CIMEIO THERAPEUTICS AG, Aeschenvorstadt 36 4051, Switzerland;UNIVERSITÄT BASEL, Petersgraben 35 4003, Switzerland ~72: CAMUS, Anna;JEKER, Lukas;LEPORE, Rosalba;MATTER-MARONE, Romina;SINOPOLI, Alessandro;URLINGER, Stefanie;WELLINGER, Lisa;WIEDERKEHR, Amélie~ 33:EP ~31:21215028.8 ~32:16/12/2021;33:EP ~31:22164796.9 ~32:28/03/2022;33:EP ~31:22207926.1 ~32:16/11/2022

2024/05106 ~ Complete ~54:METHOD OF PREPARING ALCOHOL-FREE BEER ~71:Heineken Supply Chain B.V., Burgemeester Smeetsweg 1, ZOETERWOUDE 2382 PH, THE NETHERLANDS, Netherlands ~72: ELINK SCHUURMAN, Tom Daniël;OFODU, Ikechukwu Victor~ 33:EP ~31:21218501.1 ~32:31/12/2021

2024/05123 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING BUDESONIDE FOR TREATING IGA NEPHROPATHY ~71:CALLIDITAS THERAPEUTICS AB, Kungsbron 1, 111 22, Stockholm, Sweden ~72: CHRISTIAN OLLE ANDREAS PEDERSEN;EVA KRISTINA RIESEL;KARI SANDVOLD;LENA MARGARETA PERESWETOFF-MORATH~ 33:US ~31:63/302,216 ~32:24/01/2022;33:US ~31:63/302,226 ~32:24/01/2022;33:GB ~31:2217146.6 ~32:16/11/2022;33:GB ~31:2217150.8 ~32:16/11/2022

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2024/05140 ~ Complete ~54:AUXILIARY INSTALLATION DEVICE FOR REINFORCED RETAINING WALL ~71:CHINA RAILWAY FIRST GROUP SECOND ENGINEERING CO., LTD, 49 National Defense Road, South Tangshan Road (office limited), People's Republic of China ~72: CHENG, Qian;DANG, Mingjun;KANG, Jie;LIU, Jihong;MAO, Wending;QI, Youwen;WANG, Shigang;WANG, Yi;WU, Yanhao;YU, Ziyong;ZHU, Kaixuan~

2024/05145 ~ Complete ~54:GLASS MELTING PROCESS WITH VERY LOW TO ZERO-CO2 EMISSION ~71:AGC GLASS EUROPE, Avenue Jean Monnet 4, 1348, Louvain-la-Neuve, Belgium ~72: BRUNO SYMOENS;FABRICE FASILOW;FRANÇOIS BIOUL;NICOLAS BOURGEOIS;ZAKARIA HABIBI~ 33:EP ~31:21212206.3 ~32:03/12/2021

2024/05130 ~ Provisional ~54:VEHICLE CONDITION ALERT SYSTEM AND METHOD THEREFOR ~71:NAIDOO, Shaldon, 30 Parkland Lane, RIVERGLEN, Steyn City, Johannesburg 2191, GP, SOUTH AFRICA, South Africa ~72: NAIDOO, Shaldon~

2024/05132 ~ Complete ~54:METHOD FOR SEGMENTING SMALL WATER BODY WITH HIGH ACCURACY BASED ON SPARSE ATTENTION MECHANISM ~71:Shihezi University, No.221 Beisi Road, Shihezi City, Xinjiang, People's Republic of China ~72: DING Mingrui;LI Benhao;LIU Pengshuai;MA Anqiang;PAN Shaoliang;SHU Jikai;YIN Xiaojun~ 33:CN ~31:2024104784651 ~32:19/04/2024

2024/05139 ~ Complete ~54:FLIPPING AND FIXING DEVICE FOR STEEL PLATE GIRDERS ~71:CHINA RAILWAY FIRST GROUP SECOND ENGINEERING CO., LTD, 49 National Defense Road, South Tangshan Road (office limited), People's Republic of China ~72: CHENG, Qian;DANG, Mingjun;DENG, Shengkang;KANG, Jie;LIU, Jihong;MAO, Wending;QI, Youwen;WANG, Shigang;WU, Yanhao;WU, ZhiYuan;YU, Ziyong~

2024/05129 ~ Provisional ~54:RECYCLING FURNACE ~71:TENOVA SOUTH AFRICA (PTY) LTD, Midrand Business Park, Building No 4, 563 Old Pretoria Road, Halfway House, Midrand, 1685, South Africa ~72: HUGO JOUBERT~

2024/05135 ~ Complete ~54:A PRODUCTION DEVICE AND METHOD FOR REDUCING LIGHT POLARIZATION MIRROR ~71:Nanyang Haiyuan Optoelectronic Instrument Co., Ltd, No.5 Huanggang Industrial Park, Nanyang City, Henan Province, People's Republic of China ~72: Tian Jiapeng~

2024/05137 ~ Complete ~54:DETECTION METHOD FOR SALMONELLA IN MEAT AND EGG FOODS ~71:JIAXING VOCATIONAL AND TECHNICAL COLLEGE, No. 547 Tongxiang Avenue, Jiaxing City, Zhejiang Province, 314036, People's Republic of China;Jiaxing Shifa Poultry Industry Co., Ltd., Sanxing Village, Fengqiao Town, Nanhu District, Jiaxing City, Zhejiang Province, 314007, People's Republic of China ~72: LIN, Yongqing;WANG, Jun;YU, Haijie~

2024/05143 ~ Complete ~54:CAPSULE FOR THE PREPARATION OF A BEVERAGE AND A METHOD FOR MANUFACTURING SAID CAPSULE ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: ABEGGLEN, Daniel~ 33:EP ~31:21213086.8 ~32:08/12/2021

2024/05148 ~ Complete ~54:DEVICE FOR SUBDERMAL INSERTION OF SOLID MEDIA ~71:EASTERN VIRGINIA MEDICAL SCHOOL, 735 Fairfax Avenue, Suite 1008C, Norfolk, Virginia, 23507, United States of America ~72: ANDREA THURMAN;GUSTAVO DONCEL;JASON ROBINSON;M. MELISSA PEET;MEREDITH ROBERTS CLARK;OIVIND BROCKMEIER~ 33:US ~31:63/285,294 ~32:02/12/2021

2024/05149 ~ Provisional ~54:4-WHEEL DRIVE ELECTRIFIED HYPERCAR 12 CYLINDER INTERNAL COMBUSTION REAR MID-ENGINE WITH FOUR BUILT-IN DIRECT-DRIVE MOTOR REAR AND FRONT WHEELS HUB AND WHEEL RIM AND A DUAL-CLUTCH GEARBOX ~71:AHMED WASEEF SAIB, 24 Park Ave, Desainager, South Africa ~72: AHMED WASEEF SAIB~

2024/05127 ~ Provisional ~54:AFFIX GATE-MOTOR LOCK ~71:Sharmaine van Schalkwyk, 129 Koss de la Rey street, South Africa ~72: Sharmaine van Schalkwyk~

2024/05144 ~ Complete ~54:GLASS MELTING PROCESS WITH VERY LOW TO ZERO-CO2 EMISSION ~71:AGC GLASS EUROPE, Avenue Jean Monnet 4, 1348, Louvain-la-Neuve, Belgium ~72: BRUNO SYMOENS;FABRICE FASILOW;FRANÇOIS BIOUL;NICOLAS BOURGEOIS;ZAKARIA HABIBI~ 33:EP ~31:21212215.4 ~32:03/12/2021

2024/05147 ~ Complete ~54:GLASS MELTING PROCESS WITH VERY LOW TO ZERO-CO2 EMISSION ~71:AGC GLASS EUROPE, Avenue Jean Monnet 4, 1348, Louvain-la-Neuve, Belgium ~72: BRUNO SYMOENS;FABRICE FASILOW;FRANÇOIS BIOUL;NICOLAS BOURGEOIS;ZAKARIA HABIBI~ 33:EP ~31:21212202.2 ~32:03/12/2021

2024/05146 ~ Complete ~54:GLASS MELTING PROCESS WITH VERY LOW TO ZERO-CO2 EMISSION ~71:AGC GLASS EUROPE, Avenue Jean Monnet 4, 1348, Louvain-la-Neuve, Belgium ~72: BRUNO SYMOENS;FABRICE FASILOW;FRANÇOIS BIOUL;NICOLAS BOURGEOIS;ZAKARIA HABIBI~ 33:EP ~31:21212176.8 ~32:03/12/2021

2024/05128 ~ Provisional ~54:KLOPPER BLUNT DISSECTOR FOR SOFT TISSUE ~71:Juandre Klopper, 26 Richter Avenue, South Africa ~72: Juandre Klopper~

2024/05133 ~ Complete ~54:NITROGEN-CONTROLLING AND PHOSPHORUS-PROMOTING SYNERGISTIC COMPOUND FERTILIZER AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Shandong Academy of Agricultural Sciences, No. 23788, Industrial North Road, Jinan City, Shandong Province, 250100, People's Republic of China ~72: LI, Zongxin;LIN, Haitao;LIU, Ping;SHEN, Yuwen;SONG, Xiaozong;XUE, Rui~

2024/05141 ~ Complete ~54:SEPARATOR AND AGRICULTURAL SPREADER ~71:ROVIC INTERNATIONAL (PTY) LTD, Saxenburg Road, South Africa ~72: VAN ZYL, Casper Jacobus Johannes~ 33:ZA ~31:2023/06771 ~32:03/07/2023

2024/05136 ~ Complete ~54:VIDEO ENCODER, VIDEO DECODER, METHODS FOR ENCODING AND DECODING AND VIDEO DATA STREAM FOR REALIZING ADVANCED VIDEO CODING CONCEPTS ~71:GE VIDEO COMPRESSION, LLC, 1 RESEARCH CIRCLE, NISKAYUNA, NY 12309, USA, United States of America ~72: HELLGE, Cornelius;SCHIERL, Thomas;SKUPIN, Robert;SÁNCHEZ DE LA FUENTE, Yago;SÜHRING, Karsten;WIEGAND, Thomas~ 33:EP ~31:20176178.0 ~32:22/05/2020;33:EP ~31:20176206.9 ~32:22/05/2020

2024/05134 ~ Complete ~54:A DIMMING MIRROR PROCESSING AND POLISHING MACHINE ~71:Nanyang Haiyuan Optoelectronic Instrument Co., Ltd, No.5 Huanggang Industrial Park, Nanyang City, Henan Province, People's Republic of China ~72: Tian Jiapeng~

2024/05131 ~ Complete ~54:HOMESTYLE KITCHEN WASTE TREATMENT AND RECYCLING DEVICE BASED ON SUPERHYDROPHOBIC MATERIALS ~71:Huangshan University, No. 39, Xihai Road, Tunxi District, Huangshan, Anhui, People's Republic of China ~72: Qi Chen;Qiaoqiao Zhang;Qing Ding;Wei Yang;Yinyu Sun;Yu Liu;Yue Ji;Zihan Yin~

2024/05138 ~ Complete ~54:METHOD FOR TREATING DEFORMATION OF SOFT ROCK OF DIVERSION TUNNEL ~71:CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING BUREAU GROUP CO., LTD., No. 32, Zhonghuan West Road, Pilot Free Trade Zone (Airport Economic Zone), Tianjin City, 300300, People's Republic of China;THE 5TH ENGINEERING CO., LTD. OF CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING BUREAU GROUP, No. 1000, Middle Section, Shulong Avenue, Xindu Street, Xindu District, Chengdu City, Sichuan Province, 610500, People's Republic of China ~72: Guo Jianqiang;He Shimei;Shi Hongchao;Wang Jinbao;Wu Changfu;Yang Xing;Yuan Yong;Zhu Peng~ 33:CN ~31:2023116735990 ~32:07/12/2023

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2024/05157 ~ Complete ~54:LIQUID MEDICINE FERTILIZER FOR DISEASE RESISTANCE AND PEST CONTROL AND ITS PREPARATION METHOD ~71:South China Agricultural University, South China Agricultural University, No.483 Wushan Road, Tianhe District, Guangzhou City, Guangdong Province, 510642, People's Republic of China;Zhongkai University of Agriculture and Engineering, No.501 Zhongkai Road, Haizhu District, Guangzhou City, Guangdong Province, 510225, People's Republic of China ~72: Dongmei CHENG;Hanhong XU;Jiyingzi WU;Suqing HUANG;Zhixiang ZHANG~

2024/05158 ~ Complete ~54:MAGNETIC FIELD ADJUSTABLE MICRO-MAGNETIC ORTHODONTIC ACCELERATOR ~71:UNION HOSPITAL, TONGJI MEDICAL COLLEGE, HUAZHONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, No. 1277 Jiefang Avenue, Jianghan District, Wuhan, Hubei, 430022, People's Republic of China ~72: CHEN, Lili;SUN, Jiwei;TANG, Qingming;ZHANG, Junyuan~ 33:CN ~31:202210986748.8 ~32:17/08/2022

2024/05170 ~ Complete ~54:CANNABIDIOL DERIVATIVE, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF ~71:DEYI PHARMACEUTICAL LTD., Room 916 Floor 9, Unit 2, Building 1-2 Hongshengda Yuexing Commercial Center, People's Republic of China ~72: DU, Yesong;WANG, Shubin;ZHANG, Pingping~ 33:CN ~31:202111506679.8 ~32:10/12/2021

2024/05152 ~ Complete ~54:VERTICAL REINFORCEMENT JOINT SLEEVES FOR ORDINARY STEEL BARS, CONCRETE MEMBERS OR FINISHED STEEL BAR CAGES ~71:JILIN JIANZHU UNIVERSITY, NO. 5088, XINCHENG STREET, People's Republic of China ~72: MENG, Fanlin;SHA, Lirong;SUN, Hongfei;ZHANG, Ao~

2024/05163 ~ Complete ~54:SIGNALING GENERAL CONSTRAINTS INFORMATION FOR 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;JONATHAN

GAN;YUE YU~ 33:US ~31:63/266,615 ~32:10/01/2022;33:US ~31:63/266,616 ~32:10/01/2022;33:US ~31:63/266,765 ~32:13/01/2022

2024/05151 ~ Complete ~54:PREPARATION PROCESS FOR HYDROLYZED AND SOLUBLE RADIX PUERARIAE PEPTIDE POWDER ~71:CHEN, Heping, Room 923, Phase I Building, Beichuang Science and Technology Park, 401 Xingyuan North Road, Liangxi District, Wuxi City, Jiangsu Province, 214000, People's Republic of China ~72: CHEN, Heping~

2024/05160 ~ Complete ~54:A SYSTEM AND METHOD FOR ESTIMATING A MASS OF A VEHICLE ~71:UNIVERSITY OF PRETORIA, Lynnwood Road, Hillcrest, PRETORIA 0002, SOUTH AFRICA, South Africa ~72: MEESER, Riaan~ 33:ZA ~31:2021/09992 ~32:06/12/2021

2024/05162 ~ Complete ~54:SAMPLE COLLECTION APPARATUS AND SAMPLE COLLECTION METHOD ~71:ASSURE TECH. (HANGZHOU) CO., LTD., 3rd Floor, Building 4, No. 1418-50 Moganshan Road(Shangcheng Science and Technology Industrial Base), Hangzhou, Zhejiang, 310000, People's Republic of China ~72: LEI YAO;SHISHENG LING~ 33:CN ~31:202210036630.9 ~32:13/01/2022

2024/05156 ~ Complete ~54:NANOTUBULAR RARE EARTH PEROVSKITE MATERIAL AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Inner Mongolia Minzu University, No. 536, West Huolinhe Street, Horqin District, Tongliao City, Inner Mongolia, 028099, People's Republic of China ~72: HU, Quanli;LIU, Jinghai;LUO, Hanqiong;SONG, Chao;SU, Wang~

2024/05150 ~ Provisional ~54:INTEROCCLUSAL DEVICE FOR INHIBITING AND MITIGATING BRUXISM ~71:GERRIT JANSE VAN RENSBURG, Unit 12, Technopark, 10 Rabie Street, South Africa ~72: GERRIT JANSE VAN RENSBURG~

2024/05164 ~ Complete ~54:ABSORBENT ARTICLE ~71:NIPPON SHOKUBAI CO., LTD., 1-1, Koraibashi 4-chome, Chuo-ku, Osaka-shi, Osaka, 5410043, Japan ~72: KANAKO TSURU;KUNIHIKO ISHIZAKI;SACHIE KITABATA;SATOSHI MATSUMOTO~ 33:JP ~31:2021-198739 ~32:07/12/2021

2024/05168 ~ Complete ~54:HETEROCYCLIC INHIBITORS OF GLUT9 FOR TREATMENT OF DISEASE ~71:Horizon Therapeutics Ireland DAC, 70 St. Stephen's Green, DUBLIN 2 D02E2X4, IRELAND, Ireland ~72: ADAMS, Nicholas;BILLEN, Denis;CHOBANIAN, Harry;FENWICK, Ashley;HENKE, Brad;VELTHUISEN, Emile Johann;WENZLER, Marta E.~ 33:US ~31:63/297,511 ~32:07/01/2022

2024/05159 ~ Complete ~54:CHIMERIC ANTIGEN RECEPTOR T CELLS TARGETING HIV-INFECTED CELLS ~71:BEIJING SOLOBIO GENETECHNOLOGY CO., LTD., Room 401, Building 5, No. 36, JinghaiEr Road, People's Republic of China ~72: FAN, Jundie;WANG, Hongwei;YANG, Ying;ZHU, Weijun~ 33:CN ~31:202111666522.1 ~32:31/12/2021;33:CN ~31:202210350268.2 ~32:02/04/2022

2024/05167 ~ Complete ~54:CARBONYL SUBSTITUTED DIAZASPIRO COMPOUNDS AND ITS USE ~71:Bionova Pharmaceuticals (Shanghai) Limited, Suite 901, 9F, Building B, Chamtime Plaza, 2889 Jinke Road, PUDONG DISTRICT SHANGHAI 201203, CHINA (P.R.C.), People's Republic of China ~72: HU, Taishan;HUANG, Bryan;LI, Honghai;MA, Xiaochu;SHEN, Quanrong~ 33:IB ~31:2021/135427 ~32:03/12/2021;33:IB ~31:2022/115162 ~32:26/08/2022

2024/05172 ~ Complete ~54:CAMPTOTHECIN ANALOGS CONJUGATED TO A GLUTAMINE RESIDUE IN A PROTEIN, AND THEIR USE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: HAN, Amy~ 33:US ~31:63/298,786 ~32:12/01/2022

2024/05169 ~ Complete ~54:METHOD OF CONVERTING COPPER CYANIDE TO COPPER OXIDE AND SYSTEM THEREOF ~71:Cyanco Corporation, 2245 Texas Drive, Suite 500, SUGAR LAND 77479, TX, USA, United States of America ~72: DIXON, Steve;MOYO, Pamela;NORCROSS, Roy~ 33:US ~31:63/285,532 ~32:03/12/2021

2024/05154 ~ Complete ~54:AN ENGLISH TRANSLATOR ~71:LINGZHI ENVIRONMENTAL CO., LTD, DISTRICT D, TECHNOLOGY DEVELOPMENT AERA, XIJIU STREET, HUANKE PARK, YIXING CITY, People's Republic of China;NINGBO UNIVERSITY OF FINANCE & ECONOMICS, NO. 899, XUEYUAN ROAD, HAISHU DISTRICT, NINGBO CITY, People's Republic of China ~72: CHEN, Fangzhe;CHEN, Hao;LIU, Huiping;LOU, Zhangli;LV, Xuejiao;SHAO, Mengkang;WANG, Mingling;YANG, Ziheng;YE, Shunyi;ZHU, Zaisheng~

2024/05165 ~ Complete ~54:CANNABIDIOL DERIVATIVE, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:DEYI PHARMACEUTICAL LTD., Room 916 Floor 9, Unit 2, Building 1-2 Hongshengda Yuexing Commercial Center, People's Republic of China ~72: DU, Yesong;WANG, Shubin;ZHANG, Pingping~ 33:CN ~31:202111516427.3 ~32:10/12/2021

2024/05153 ~ Complete ~54:ENGLISH TRANSLATION TEACHING BOARD ~71:LINGZHI ENVIRONMENTAL CO., LTD, DISTRICT D, TECHNOLOGY DEVELOPMENT AERA, XIJIU STREET, HUANKE PARK, YIXING CITY, People's Republic of China;NINGBO UNIVERSITY OF FINANCE & ECONOMICS, NO. 899, XUEYUAN ROAD, HAISHU DISTRICT, NINGBO CITY, People's Republic of China ~72: CHEN, Hao;JIN, Yutao;LI, Mofei;LI, Xinye;LIU, Huiping;LIU, Jia;LV, Xuejiao;WANG, Mingling;XU, Boyu;ZHU, Zaisheng~

2024/05171 ~ Complete ~54:METHOD FOR PURIFYING LINEAR ALPHA OLEFINS ~71:SABIC GLOBAL TECHNOLOGIES B.V., Plasticslaan 1, Netherlands ~72: AZAM, Shahid;BAWARETH, Bander;CHAKRABORTY, Debashis;GHOSH, Ashim Kumar;KOLAH, Aspi Kersasp;LIU, Zheng;MERENOV, Andrei;VISWANATH, Vinu~ 33:EP ~31:21217782.8 ~32:27/12/2021

2024/05155 ~ Complete ~54:A BLACKBOARD ERASER ~71:LINGZHI ENVIRONMENTAL CO., LTD, DISTRICT D, TECHNOLOGY DEVELOPMENT AERA, XIJIU STREET, HUANKE PARK, YIXING CITY, People's Republic of China;NINGBO UNIVERSITY OF FINANCE & ECONOMICS, NO. 899, XUEYUAN ROAD, HAISHU DISTRICT, NINGBO CITY, People's Republic of China ~72: CHEN, Hao;HU, Ye;LI, Yan;LIU, Huiping;LV, Xuejiao;SHEN, Guofu;WANG, Mingling;WANG, Shaobin;YE, Longhan;ZHU, Zaisheng~

2024/05161 ~ Complete ~54:REUSABLE PLASTIC BOTTLE ~71:ALPLA WERKE ALWIN LEHNER GMBH & CO. KG, Allmendstrasse 81, Austria ~72: Robert SIEGL~ 33:CH ~31:070736/2021 ~32:17/12/2021

2024/05166 ~ Complete ~54:THERAPEUTIC ANTIBODIES THAT BIND TO THE SERINE PROTEASE DOMAIN OF MASP-2 AND USES THEREOF ~71:Omeros Corporation, 201 Elliott Avenue West, SEATTLE 98119, WA, USA, United States of America ~72: DUDLER, Thomas;NOLLERT VON SPECHT, Peter Kurt;YABUKI, Munehisa;YASEEN, Sadam~ 33:US ~31:63/288,174 ~32:10/12/2021;33:US ~31:63/350,580 ~32:09/06/2022

2024/05173 ~ Complete ~54:USE OF ANTI-IDIOPATHIC PULMONARY FIBROSIS DRUG NINTEDANIB IN TREATMENT OF TUBERCULOSIS ~71:BEIJING CHEST HOSPITAL , CAPITAL MEDICAL UNIVERSITY, No 9, Beiguan Street, Tongzhou District, People's Republic of China;BEIJING TUBERCULOSIS CHEST CANCER INSTITUTE, No 9, Beiguan Street, Tongzhou District, People's Republic of China ~72: CHEN, Xiaoyou;FU, Lei;LU, Yu;QI, Xueting;WANG, Ning;ZHANG, Weiyan;ZHENG, Luyao~ 33:CN ~31:202210463752.6 ~32:29/04/2022

. - APPLIED ON 2024/07/03 -

2024/05181 ~ Complete ~54:MOBILE APPLICATION FOR SMART INVESTMENT SUGGESTIONS ~71:Nagaland University, Nagaland University, Lumami Headquarters, Zunheboto district, Zunheboto, Nagaland, 798627, India ~72: Kailash Chandra Juglan;Mithilesh Kumar Sinha;N Albert Khizho;Prateek Agrawal~ 33:IN ~31:202431040906 ~32:27/06/2024

2024/05182 ~ Complete ~54:A CRACK REPAIR DEVICE FOR CONSTRUCTION ~71:Chongqing Polytechnic University of Electronic Technology, No. 76, Daxuecheng East Road, Shapingba District, Chongqing City, 401331, People's Republic of China ~72: Yan Liao~

2024/05185 ~ Complete ~54:RESOURCE SHARING AND MANAGEMENT SYSTEM AND METHOD FOR DEVELOPING A TELECOMMUNICATIONS AND/OR NETWORK PRODUCT ~71:VODAFONE GROUP SERVICES LIMITED, Vodafone House, The Connection, United Kingdom ~72: BRISBOURNE, Simon~

2024/05176 ~ Provisional ~54:CENTRAL DATABASE FOR DECEASED POLICYHOLDERS AND NOTIFYING POLICYHOLDERS TO UPDATE BENEFICIARIES IN CASE OF PREDECEASED ~71:Siyathuthuka Mkize, 25 Wild Villa, Gloucester Avenue, Johannesburg, 1541, South Africa ~72: Siyathuthuka Precious Mkize~

2024/05190 ~ Complete ~54:COMPOUNDS, TRANSITION METAL COMPLEX HYDROFORMYLATION CATALYST PRECUROR COMPOSITIONS COMPRISING SUCH COMPOUNDS, AND HYDROFORMYLATION PROCESSES ~71:DOW TECHNOLOGY INVESTMENTS LLC, 2211 H.H. Dow Way, Midland, United States of America ~72: LAROCHE, Christophe R.~ 33:US ~31:63/265,512 ~32:16/12/2021

2024/05198 ~ Complete ~54:OXER1 ANTAGONISTS AND USES THEREOF ~71:FAIRHAVEN PHARMACEUTICALS INC., 500, Cartier Blvd West, Suite 150, Laval, Quebec, H7V 5B7, Canada ~72: ELYSE BOURQUE;JEREMY GREEN;JULIEN MARTEL;MYLÈNE DE LÉSÉLEUC;SHAUN ABBOTT~ 33:US ~31:63/291,555 ~32:20/12/2021

2024/05180 ~ Complete ~54:A MOBILE APPLICATION USING MACHINE LEARNING FOR IDENTIFICATION OF HINDI LANGUAGE AS PER REGION ~71:Nagaland University, Nagaland University, Lumami Headquarters, Zunheboto district, Zunheboto, Nagaland, 798627, India ~72: Ashish Kumar;Kailash Chandra Juglan;Prateek Agrawal~ 33:IN ~31:202431038028 ~32:15/05/2024

2024/05195 ~ Complete ~54:ANTI-ALK1 ANTIBODIES AND METHODS OF USING THE SAME ~71:GENOVAC ANTIBODY DISCOVERY LLC, 1810 NDSU Research Circle N, Suite B Fargo, United States of America;YALE UNIVERSITY, Two Whitney Avenue, New Haven, Connecticut, United States of America ~72: SCHLEER, Hubertus;SESSA, William~ 33:US ~31:63/302,408 ~32:24/01/2022;33:US ~31:63/335,444 ~32:27/04/2022

2024/05201 ~ Complete ~54:ELLIPTIC CURVE ARITHMETIC IN SCRIPT ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: LARRAIA, Enrique~ 33:GB ~31:2200991.4 ~32:26/01/2022

2024/05191 ~ Complete ~54:SYSTEMS AND METHODS FOR QUEUE MANAGEMENT OF MACHINES BASED ON BATTERY-RELATED CHARACTERISTICS ~71:CATERPILLAR INC., 100 NE Adams Street - AB6450, United States of America ~72: VITALE, Andrew J.~ 33:US ~31:17/569,511 ~32:06/01/2022

2024/05174 ~ Provisional ~54:FACIAL AND FINGERPRINT RECOGNITION IN RECRUITMENT ~71:Ayanda Prince, Ayanda Prince, 24 Union Street, South Africa;Huston Alicks, 26 Hof Street, South Africa ~72: Ayanda Prince;Huston Alicks~

2024/05178 ~ Complete ~54:REMOTE ALARM CIRCUIT FOR ELECTRIC PRESSURE COOKER ~71:Kunming University of Science and Technology Oxbridge College, No. 1268 Haiyuan North Road, National High-tech Industry, Kunming City, Yunnan Province, 650106, People's Republic of China ~72: XIONG, Hao~

2024/05183 ~ Complete ~54:A POST-GROUTING METHOD AND CONSTRUCTION TECHNOLOGY FOR SLAG-BASED GEL MATERIAL CAST-IN-PLACE PILE ~71:China First Highway Engineering Co.,Ltd., Shitong Building A, Zhoujiajing, Guanzhuang, Chaoyang District, Beijing, 100024, People's Republic of China;Nanjing Tech University, No.30, Puzhu South Road, Jiangbei New District, Nanjing City, Jiangsu Province, 211816, People's Republic of China ~72: Haiyan JIANG;Jiancai HAO;Jitao DAI;Leilei GU;Shengnian WANG;Xingwang PENG;Zhijian WU~

2024/05199 ~ Complete ~54:LAUNDRY COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GURPREET SINGH KOHLI;PANCHANAN BHUNIA;SUBHAJIT MANNA;SUJITKUMAR SURESH HIBARE~ 33:EP ~31:22154010.7 ~32:28/01/2022

2024/05175 ~ Provisional ~54:A BLASTING SYSTEM ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: CRICHTON Andre;YATES Marinus~

2024/05193 ~ Complete ~54:INFUSION APPARATUS, INFUSION CONTROL METHOD, AND ELECTRONIC DEVICE ~71:Affiliated Tumor Hospital of Guangzhou Medical University, No.78, Hengzhigang, Luhu Road, Yuexiu District, Guangzhou, Guangdong, People's Republic of China ~72: Juanjuan Zhao;Long Bai;Meihui Sun;Yalan Song;Yumei Li;Yuxiu Kong~ 33:CN ~31:202311542607.8 ~32:17/11/2023

2024/05188 ~ Complete ~54:COMMUNICATION APPARATUSES AND METHODS FOR TRANSMITTER RESTRICTIONS ON RESOURCE REPORTING FOR SIDELINK COMMUNICATION ~71:PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, 2050 W 190TH STREET SUITE 450, TORRANCE, CA 90504, USA, United States of America ~72: KANG, Yang;OGAWA, Yoshihiko;SIM, Hong Cheng, Michael;SUZUKI, Hidetoshi;TRAN, Xuan Tuong~ 33:SG ~31:10202200149T ~32:06/01/2022

2024/05187 ~ Complete ~54:KITE LAUNCH-LAND SYSTEM ~71:OCEANERGY INNOVATION GMBH, MITTELSTRASSE 11, D-70180 STUTTGART, GERMANY, Germany ~72: REINERS, Wolfram, Johannes, Bernd~ 33:ZA ~31:2021/10238 ~32:10/12/2021

2024/05194 ~ Complete ~54:NOVEL RECYCLING PROCESS OF POLYETHYLENE ~71:NEXAM CHEMICAL AB, Industrigatan 27, Sweden ~72: KEIVANSHOKOUH, Amin;PISCIOTTI, Francesco;SELLING, Hugo;SOLANO ARRIBAS, Carlos~ 33:EP ~31:21213147.8 ~32:08/12/2021

2024/05186 ~ Complete ~54:CRYSTALLINE FORMS OF 3-(5-(2-HYDROXY-2-METHYLPROPOXY)-6-METHYLPYRAZIN-2-YL)-1H-INDOLE-7-CARBONITRILE ~71:NIDO BIOSCIENCES, INC., 134 Coolidge Avenue, 2nd Floor, United States of America ~72: RONN, Magnus;TOURE, Bakary-Barry~ 33:US ~31:63/299,678 ~32:14/01/2022

2024/05196 ~ Complete ~54:METHODS FOR IMPROVING RESOLUTION OF HETERODIMERIC PROTEINS FROM IMPURITIES USING AFFINITY CHROMATOGRAPHY ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: BARMASSE, Andrew;CHEN, Cindy;CHIBOROSKI, Mark;DINN, Sean;SEVINSKY, Christopher~ 33:US ~31:63/298,745 ~32:12/01/2022;33:US ~31:63/430,477 ~32:06/12/2022

2024/05197 ~ Complete ~54:A DECORATIVE SHEET AND METHOD FOR MANUFACTURING ~71:CHIYODA EUROPA, Henry Fordlaan 37, 5870, Genk, Belgium ~72: STEFAN SYMKENS~ 33:EP ~31:21212520.7 ~32:06/12/2021

2024/05203 ~ Complete ~54:CATIONIC LIPID COMPOUND, COMPOSITION CONTAINING SAME AND USE THEREOF ~71:Hangzhou Tianlong Pharmaceutical Co., Ltd., No. 430, Jianding Road, Shangcheng District, HANGZHOU 310009, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Xichao;HUANG, Dawei;SONG, Gengshen;WANG, Huanyu;YU, Xiaowen;ZHANG, Honglei~ 33:CN ~31:202210034449.4 ~32:13/01/2022

2024/05206 ~ Provisional ~54:SHAGGY WET SHAVING DEVICE ~71:ANTHONY EDWARD EVANS, 503 THE BELMONT HOLMFIRTH RD, South Africa ~72: ANTHONY EDWARD EVANS~

2024/05184 ~ Complete ~54:PORTABLE VEHICLE-MOUNTED APRON FOR UNMANNED AERIAL VEHICLES ~71:Pastoral Water Conservancy Science Research Institute of the Ministry of Water Resources, No. 16, Daxue East Road, Saihan District, Hohhot City, Inner Mongolia Autonomous Region, 010020, People's Republic of China ~72: Chai Shaoqi;Dong Lei;Li Huimin;Li Yin;Liu Yanling;Liu Yi;Liu Yue;Lv Yang;Zhou Hui~ 33:CN ~31:2024200976906 ~32:16/01/2024

2024/05200 ~ Complete ~54:RAS INHIBITORS ~71:REVOLUTION MEDICINES, INC., 700 Saginaw Drive, Redwood City, California, 94063, United States of America ~72: ADRIAN L GILL;ELENA S KOLTUN;G. LESLIE BURNETT;JAMES CREGG;JOHN E KNOX;YANG LIU~ 33:US ~31:63/298,098 ~32:10/01/2022

2024/05204 ~ Complete ~54:NICOTINE TABLET ~71:Fertin Pharma A/S, Dandyvej 19, VEJLE 7100, DENMARK, Denmark ~72: BOESEN, Dorthe Schackinger;BRUUN, Heidi Ziegler;NIELSEN, Bruno Provstgaard;NIELSEN, Kent Albin;PRANGER-RASMUSSEN, Rikke~ 33:US ~31:17/644,182 ~32:14/12/2021

2024/05189 ~ Complete ~54:METHOD FOR PREPARING AMINO ACID–CONTAINING PRODUCTS FROM FERMENTATION BROTH ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: KANG, Ji-hun;KIM, Jong Hyun;KIM, Min Sup;KWON, Min Kyung;PARK, Sang Min;SHIN, Jihyun~ 33:KR ~31:10-2021-0187593 ~32:24/12/2021

2024/05192 ~ Complete ~54:METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR OPTIMIZING IDENTIFICATION OF COMMUNICATION DEVICE BASED SPAMMING ~71:TRUECALLER INTERNATIONAL LLP, 1st Floor, Platina Tower, MG Road, Near Sikanderpur Metro Station, Sector 28, Gurugram, India ~72: BHATNAGAR, Abhinav;PADMANABHAN, Dhanesh~ 33:IN ~31:202211000188 ~32:03/01/2022

2024/05202 ~ Complete ~54:EXHAUST GAS-PURIFYING CATALYST-MANUFACTURING APPARATUS ~71:Cataler Corporation, 7800, Chihama, KAKEGAWA-SHI 4371492, SHIZUOKA, JAPAN, Japan ~72: ICHIKAWA, Kazuki;NAKAMURA, Yoshio;SAKAKIBARA, Keisuke;SUDO, Katsuyoshi~ 33:JP ~31:2022-001523 ~32:07/01/2022

2024/05177 ~ Complete ~54:JUVENILE FISH PROTECTION REEF ~71:HAINAN TROPICAL OCEAN UNIVERSITY, No.1 Yucai Road, Sanya City, Hainan Province, 572022, People's Republic of China ~72: CHEN, Yan;JIA, Chuan;TONG, Yuhe;WANG, Haishan;WEI, Yuan;YANG, Chaojie~

2024/05179 ~ Complete ~54:MULTI-FUNCTIONAL E-COMMERCE LOGISTICS PACKAGE ~71:Zhejiang Industry and Trade Vocational College, No.717, Fudong Road, Lucheng District, Wenzhou City, Zhejiang Province, 325000, People's Republic of China ~72: Jin Ge~

2024/05205 ~ Complete ~54:METHOD OF MANAGING A BLASTING SYSTEM ~71:DETNET SOUTH AFRICA (PTY) LTD, AECI Place, The Woodlands, Woodlands Drive, Woodmead, South Africa ~72: LIEBENBERG, Abraham Johannes;MEYER, Tielman Christiaan~ 33:ZA ~31:2022/09857 ~32:05/09/2022

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2024/05239 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: SUTTON, Joseph~ 33:GB ~31:2200042.6 ~32:05/01/2022

2024/05208 ~ Provisional ~54:DUNGBRIX BRIQUETTES ~71:Vonnie Projects, Erf 55D Bloempoort, South Africa ~72: Vonnie Baloyi~ 33:ZA ~31:2021/36531 ~32:03/07/2024

2024/05211 ~ Complete ~54:REGULATOR FOR CONCRETE OF MANUFACTURED SAND AND GRAVEL AND PREPARATION METHOD AND USE METHOD THEREOF ~71:Beijing University of Civil Engineering and Architecture, No. 1 Zhanlanguan Road, Xicheng District, Beijing 100044 100044,, People's Republic of China;China railway Shanghai Engineering Group Co., Ltd., 278 Jiangchang 3rd Road, Jing An District Shanghai 200436, People's Republic of China;THE FIRST CIVIL ENGINEERING CO., LTD. OF CREC SHANGHAI GROUP, Pujiadian Wuhu City, Anhui 241000, People's Republic of China ~72: CHEN, Hejun;GUO, Minglei;HE, Xinxin;LI, Shuai;LIU, Xuejuan;REN, Ruigang;SONG, Chaozhi;SONG, Fei;TANG, Qi;WANG, Jingwei;WANG, Lin;WANG, Yongming;WANG, Yufeng;ZHANG, Maolin;ZHANG, Wei~

2024/05214 ~ Complete ~54:AN UNDERGROUND COAL MINE WATER RESOURCE RECYCLING DEVICE AND APPLICATION METHOD ~71:Xichuan Coal Mine Branch, Huaneng Tongchuan Zhaojin Coal Power Co., Ltd., Yumen County, Miaowan Town, Yaozhou District, Tongchuan City, Shaanxi Province, 727100, People's Republic of China ~72: Bo Liu;Jiangbo Di;Tao Hu;Wei Yi;Yuhui Miao;Zhongyan Jiang~ 33:CN ~31:202410781185.8 ~32:17/06/2024

2024/05240 ~ Complete ~54:GAMMA DELTA T-CELL-BINDING POLYPEPTIDES AND USES THEREOF ~71:Inhibrx Biosciences, Inc., 11025 N. Torrey Pines Road, Suite 140, LA JOLLA 92037, CA, USA, United States of America ~72: BECKLUND, Bryan R.;ECKELMAN, Brendan P.;ECKLES, Andrew M.;JONES, Kyle S.;ROBINSON, Kaitlyn N.;TIMMER, John C.~ 33:US ~31:63/296,774 ~32:05/01/2022;33:US ~31:63/417,926 ~32:20/10/2022

2024/05207 ~ Provisional ~54:A TRANSPORT MANAGEMENT SYSTEM ~71:BATSAMAYI SOFTWARE DEVELOPMENT (PTY) LTD, HARBOUR VIEW BUILDING, OAKWORTH ROAD, HUMEWOOD, NELSON MANDELA BAY, 6001, South Africa, South Africa ~72: NYANGINTSIMBI, Cinga, Phiwe~

2024/05209 ~ Provisional ~54:NON-LINEAR REACTOR ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2024/05236 ~ Complete ~54:TREATMENT PARADIGM FOR AN ANTI-CD19 ANTIBODY THERAPY ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: HÄRTLE, Stefan;STRIEBEL, Frank~ 33:EP ~31:21216714.2 ~32:22/12/2021

2024/05241 ~ Complete ~54:METHOD FOR SYNTHESIS, ASSEMBLY AND FUNCTION TEST OF ARTIFICIAL CHLOROPLAST GENOME OF CHLAMYDOMONAS REINHARDTII ~71:SHENZHEN UNIVERSITY, No. 3688, Nanhai Road, Nanshan District, Shenzhen, People's Republic of China ~72: GUO, Chunli;HU, Zhangli;JIA, Bin;WANG, Chaogang;ZHANG, Guiying~ 33:CN ~31:202210917993.3 ~32:01/08/2022

2024/05221 ~ Complete ~54:THIENOPYRIMIDINE HETEROCYCLIC COMPOUND WITH TARGETED TYROSINE KINASE INHIBITORY ACTIVITY, PREPARATION METHOD AND MEDICAL APPLICATION THEREOF ~71:Chuzhou University, No. 1, Huifeng West Road, Chuzhou City, Anhui Province, 239000, People's Republic of China ~72: JIN Xin;LIU Changzhi;QIAN Hu;XIE Yuliang;XIE Yuxiang~

2024/05232 ~ Complete ~54:TRANSMISSION SYSTEM AND WIND POWER GENERATING SET ~71:BEIJING GOLDWIND SCIENCE & CREATION WINDPOWER EQUIPMENT CO., LTD., No. 19, Kangding Road Beijing Economic & Technological Development Zone, People's Republic of China ~72: LI, Mingwei;LI, Yanhui;SHI, Shengjie~ 33:CN ~31:202210750682.2 ~32:29/06/2022

2024/05234 ~ Complete ~54:A MIXTURE OF UREA, BIURET AND NITRATE AS A DIETARY NON-PROTEIN NITROGEN-SOURCE FOR RUMINANTS AND USES THEREOF ~71:YARA INTERNATIONAL ASA, Drammensveien 131, Norway ~72: IPHARRAGUERRE, Ignacio R.;MARTINEZ-LUENGAS, Inés;MOHAN, Anand;PIRRO, Laura;RUIZ, Isabel;VAN BELZEN, Ruud~ 33:EP ~31:22157277.9 ~32:17/02/2022;33:EP ~31:22382539.9 ~32:03/06/2022;33:EP ~31:22382836.9 ~32:09/09/2022

2024/05231 ~ Complete ~54:CHROMATOGRAPHIC SEPARATION AND PURIFICATION OF ELEMENTAL METALS ~71:RARE EARTH TECHNOLOGIES, INC., 12082 Champion Way, Cincinnati, Ohio, 45241, United States of America ~72: DEJENE KIFLE;STEVEN LEVIN~ 33:US ~31:63/290,829 ~32:17/12/2021

2024/05217 ~ Complete ~54:METHOD FOR SYNTHESIZING AND CHARACTERIZING CARBAZOLE DERIVATIVES AS MUTANT HSOD1 PROTEIN AGGREGATION INHIBITORS ~71:Dr. Chandrabhushan Mishra, Flat A5, Keshav Kunj Apt, Santnagar, Burari, Delhi, 110084, India;Dr. Siddharth Gusain, Flat no-11, A- 44/45, Jawahar Park, Deoli Road, Khanpur, New Delhi, 110062, India;Kajal Yadav, Bharaph, District Mahendergarh, Haryana, 123027, India;Prof. Manisha Tiwari, House no - 48, Sector-37, Noida, UP, 201303, India ~72: Dr. Chandrabhushan Mishra;Dr. Siddharth Gusain;Kajal Yadav;Prof. Manisha Tiwari~

2024/05237 ~ Complete ~54:ANTI-MUSK ANTIBODIES FOR USE IN TREATING NEUROMUSCULAR DISORDERS ~71:New York University, 70 Washington Square South, NEW YORK 10012, NY, USA, United States of America;Université De Montréal, 2900, boul. Edouard-Monpetit, MONTRÉAL H3T 1J4, QUÉBEC, CANADA, Canada;argenx BV, Industriepark Zwijnaarde 7, GHENT 9052, BELGIUM, Belgium ~72: ARBOUR, Danielle;BURDEN, Steven J.;RENAUD, Laurence;ROBITAILLE, Richard;SILENCE, Karen;VANHAUWAERT, Roeland~ 33:EP ~31:22154118.8 ~32:28/01/2022;33:US ~31:63/364,685 ~32:13/05/2022

2024/05216 ~ Complete ~54:BLAST CAGE FOR A SAFE ~71:PAYCORP GROUP (PROPRIETARY) LIMITED, Sandhaven Office Park 14 Pongola Crescent Eastgate Ext 17, Sandton, Gauteng, 2199, South Africa ~72: HENDRIK DU TOIT~ 33:ZA ~31:2023/05617 ~32:25/05/2023

2024/05225 ~ Complete ~54:AEROSOL DELIVERY DEVICE WITH IMPROVED SEALING ARRANGEMENT ~71:RAI STRATEGIC HOLDINGS, INC., 401 North Main Street, United States of America ~72: SHORT, Jason M.~ 33:US ~31:17/556,505 ~32:20/12/2021

2024/05227 ~ Complete ~54:IMMUNOSTIMULATORY MRNA COMPOSITIONS AND USES THEREOF ~71:ETHERNA IMMUNOTHERAPIES NV, Galileilaan 19, Belgium ~72: BRABANTS, Elisabeth;DE KOKER, Stefaan;FILTJENS, Jessica;LAMBOLEZ, Florence~ 33:EP ~31:21217374.4 ~32:23/12/2021

2024/05238 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: CAMPBELL, Jeremy~ 33:GB ~31:2200039.2 ~32:05/01/2022

2024/05212 ~ Complete ~54:APPLICATION OF TANGERETIN AND NOBILETIN MIXTURE IN PREPARING FUNCTIONAL PRODUCTS TO ACTIVATE ABILITY OF CELLS TO RESIST OXIDATIVE STRESS ~71:Zhejiang University, No. 866 Yuhangtang Road, Xihu District, Hangzhou City, Zhejiang Province, 310058, People's Republic of China ~72: CAO, Jinping;CHEN, Jiebiao;CHEN, Yunyi;SUN, Chongde;WANG, Yue~

2024/05213 ~ Complete ~54:ANTI-TUMOR NANO-MICELLE, PREPARATION METHOD AND APPLICATION THEREOF ~71:Anhui Huarun Jinchan Pharmaceutical Co.,Ltd., No. 39 Longfa Road, Duji District, Huaibei City, Anhui Province, People's Republic of China;Institute of Chinese Materia Medica, China Academy of Chinese Medical Sciences, No. 16, Nanxiao Street, Inner Dongzhimen, Dongcheng District, Beijing, People's Republic of China ~72: BIAN Baolin;GAO Bo;LUO Chuan;SI Nan;WANG Hongjie;WEI Xiaolu;YANG Jiaying;ZHAO Haiyu;ZHOU Yanyan~

2024/05218 ~ Complete ~54:AN IOT FORENSIC DATA ACQUISITION SYSTEM ~71:Dr. Keerti Shrivastava, Department of CSA, ITM University, Gwalior, 474001, India;Dr. Pallavi Khatri, Department of CSA, ITM University, Gwalior, 474001, India;Dr. Vaishali Joshi, Flat No-81, Anandvan Society, A-6 Paschim Vihar New Delhi, 110063, India;Dr.Geetanjali Surange, Department of CSA, ITM University, Gwalior, 474001, India ~72: Dr. Keerti Shrivastava;Dr. Pallavi Khatri;Dr. Vaishali Joshi;Dr.Geetanjali Surange~

2024/05220 ~ Complete ~54:ROBOT NAVIGATION SYSTEM BASED ON BEHAVIOURAL FINITE STATE SOCIAL MACHINE AND A METHOD THEREOF ~71:Rahul Kala, Associate Professor, Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior, Morena Rd, Madhya Pradesh, 474015, India;Vaibhav Malviya, Assistant Professor National Institute of Technology Mizoram, Chaltlang, Aizawl, 796012 Mizoram, India ~72: Rahul Kala;Vaibhav Malviya~

2024/05229 ~ Complete ~54:PORTION CAPSULE ~71:TCHIBO GMBH, Überseering 18, 22297, Hamburg, Germany ~72: RALF MÜLLER~ 33:EP ~31:22150889.8 ~32:11/01/2022

2024/05210 ~ Complete ~54:METHOD FOR SETTING UP GREEN DUST-PROOF AND NOISE-REDUCING CANOPY SYSTEM ~71:THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, No.0169 Qianhai Road, Nanshan subdistrict, Nanshan District, Shenzhen, 518000, People's Republic of China ~72: CHEN, Kun;FENG, Ruili;LI, Jiahui;SHEN, Zhengtong;SU, Meiqing;WANG, Gang;WANG, Hongjun;WU, Huihui;ZHANG, Ansheng;ZHANG, Fengmin~ 33:CN ~31:202410660875.8 ~32:27/05/2024

2024/05215 ~ Complete ~54:TRANSMISSION METHOD AND APPARATUS FOR MIMO SYSTEM ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: JONGHO OH;JONGHWAN KIM;KILSIK HA;SEIJOON SHIM~ 33:KR ~31:10-2020-0120102 ~32:17/09/2020;33:KR ~31:10-2021-0014497 ~32:02/02/2021

2024/05226 ~ Complete ~54:ELECTRIC ARC FURNACE FOR MELTING METAL MATERIAL AND STEEL PLANT COMPRISING SAID ELECTRIC ARC FURNACE ~71:DANIELI & C. OFFICINE MECCANICHE S.P.A., Via Nazionale, 41, Italy ~72: ANSOLDI, Marco;MARCONI, Gianfranco;PATRIZIO, Damiano;TERLICHER, Stefano~ 33:IT ~31:102021000030824 ~32:07/12/2021

2024/05230 ~ Complete ~54:TETHERED, HINGED CLOSURE WITH MODIFIED PRIMARY SLIT ~71:SILGAN WHITE CAP LLC, 1140 31st Street, Downers Grove, Illinois, 60515, United States of America ~72: RICHARD D LOHRMAN~ 33:US ~31:63/309,126 ~32:11/02/2022

2024/05228 ~ Complete ~54:PLANT METABOLISM PROMOTING COMPOSITIONS AND METHODS OF USE ~71:BRADLEY MICHAEL MAAG, 6501 State Rd. 60 E., Bartow, Florida, 33830, United States of America;JOSHUA MARK STEINBRONN, 6501 State Rd. 60 E., Bartow, Florida, 33830, United States of America ~72: BRADLEY MICHAEL MAAG;JOSHUA MARK STEINBRONN~ 33:US ~31:63/286,937 ~32:07/12/2021;33:US ~31:18/074,271 ~32:02/12/2022

2024/05235 ~ Complete ~54:HIGH TEMPERATURE-STABLE AGROCHEMICAL COMPOSITION ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: FAJALIA, Ankit;IBRAHIM, Rufai~ 33:US ~31:63/292,130 ~32:21/12/2021

2024/05224 ~ Complete ~54:SUBSTRATE MATERIAL COMPRISING BEADS FOR AEROSOL DELIVERY DEVICES ~71:NICOVENTURES TRADING LIMITED, Globe House, 1 Water Street, United Kingdom ~72: CRUMP, Bridget;FORD, Kyle;MONSALUD, Luis;MUA, John Paul~ 33:US ~31:63/291,766 ~32:20/12/2021

2024/05233 ~ Complete ~54:A MIXTURE OF UREA, BIURET AND N-CONTAINING BY-PRODUCTS CREATED DURING BIURET PRODUCTION AS A DIETARY NON-PROTEIN NITROGEN-SOURCE FOR RUMINANTS AND USES THEREOF ~71:YARA INTERNATIONAL ASA, Drammensveien 131, Norway ~72: IPHARRAGUERRE, Ignacio R.;MARTINEZ-LUENGAS, Inés;MOHAN, Anand;PIRRO, Laura;RUIZ, Isabel;VAN BELZEN, Ruud~ 33:EP ~31:22157277.9 ~32:17/02/2022;33:EP ~31:22382539.9 ~32:03/06/2022;33:EP ~31:22382836.9 ~32:09/09/2022

2024/05219 ~ Complete ~54:A SYSTEM AND METHOD FOR LUNG AND BREAST CANCER DETECTION USING HISTOPATHOLOGICAL IMAGES ~71:AYESHA SIDDIQUA, Department of Clinical Pharmacy, College of Pharmacy, King Khalid University, Abha, 61421, Saudi Arabia;GEETHA KANDASAMY, Department of Clinical Pharmacy, College of Pharmacy, King Khalid University, Abha, 61421, Saudi Arabia;PRASANALAKSHMI BALAJI, College of Computer Science, King Khalid University, Abha, 61421, Saudi Arabia;RAJALAKSHIMI VASUDEVAN, Department of Pharmacology, College of Pharmacy, King Khalid University, Abha, 61421, Saudi Arabia;SANDEEP SINGH SENGAR, School of Technologies, Cardiff Metropolitan University, CF5 2YB, United Kingdom;SYARIFAH BAHIYAH RAHAYU, Faculty of Defense Science and Technology, National Defense University of Malaysia, Kuala Lumpur, 57000, Malaysia;VENKATESAN KOTTESWARAN, Department of Computer Science and Engineering, Amrita School of Computing, Amrita Vishwa Vidyapeetham, Chennai, 601103, India ~72: AYESHA SIDDIQUA;GEETHA KANDASAMY;PRASANALAKSHMI BALAJI;RAJALAKSHIMI VASUDEVAN;SANDEEP SINGH SENGAR;SYARIFAH BAHIYAH RAHAYU;VENKATESAN KOTTESWARAN~

2024/05222 ~ Complete ~54:UNMANNED AERIAL VEHICLE FOR EMERGENCY RESCUE ~71:Fuxing (Zhejiang) Digital Technology Co., Ltd, Daqiao Town, Nanhu District, Jiaxing City, Zhejiang Province, 314001, People's Republic of China ~72: CAO Haoran;GE Liuqiang;LI Kai;LI Zeang;MA Xihe;SHEN Fenglei;SONG Zhenfeng;SU Yuping;XIAO Huajie;XIAO Kelin;XU Ruixue;YANG Yubin;ZHAN Kui;ZHOU Ying~

2024/05223 ~ Complete ~54:BICYCLIC PHTHALAZIN-1(2H)-ONE DERIVATIVES AND RELATED USES ~71:NODTHERA LIMITED, The Mansion, Chesterford Research Park, United Kingdom ~72: BOCK, Mark G.;HARRISON, David;SCANLON, Jane E.~ 33:US ~31:63/297,444 ~32:07/01/2022

. - APPLIED ON 2024/07/05 -

2024/05262 ~ Complete ~54:A REDUCTION AND FIXATION DEVICE FOR ORTHOPEDICS DEPARTMENT ~71:The Fourth Affiliated Hospital of Guangzhou Medical University(Guangzhou Zengcheng District People's Hospital), No. 1, Guangming East Road, Zengjiang Street, Zengcheng District, Guangzhou City, Guangdong Province, 511300, People's Republic of China ~72: Maolin Zhang;Weiqiong Zhang;Xiang Zheng~

2024/05273 ~ Complete ~54:CELLULOSIC TEXTILE FIBRE ~71:Infinited Fiber Company Oy, Tekniikantie 14, ESPOO 02150, FINLAND, Finland ~72: MALANIN, Erkki;NUOPPONEN, Markus;SIREN, Sakari;VEIJOLA, Elias~ 33:FI ~31:20225011 ~32:07/01/2022

2024/05275 ~ Complete ~54:METHOD FOR PURIFICATION OF AT LEAST ONE AQUEOUS SOLUTION OF PHOSPHORIC ACID ~71:PRAYON, Rue Joseph Wauter 144 4480 Engis, Belgium ~72: BERNARD HEPTIA;DAMIEN GABRIEL;HUBERT HALLEUX~ 33:BE ~31:2021/6073 ~32:27/12/2021

2024/05243 ~ Provisional ~54:AN E. COLI BACTERIAL DIAGNOSTIC DEVICE ~71:CSIR, Scientia, Meiring Naude Road, Brummeria, Pretoria, 0184, South Africa ~72: AMANDA SKEPU;ELDAS MAESELA;MANFRED RUDOLF SCRIBA;MARTIN BRIAN WILLIAMS;MASIBULELE TIMOTHY KAKAZA;YOLANDY LEMMER~

2024/05245 ~ Complete ~54:REALGAR CLASSIFICATION METHOD ~71:Beijing Center for Disease Prevention and Control, No. 16 Hepingli Middle Street, Dongcheng District, Beijing, People's Republic of China;Institute of Chinese Materia Medica China Academy of Chinese Medical Sciences, No. 16, Nanxiao Street, Inner Dongzhimen, Dongcheng District, Beijing, 100010, People's Republic of China ~72: GU Xuezhu;LI Raorao;LIU Liping;LIU Yang;LUO Lu;WANG Yiming;XIN Xueying~ 33:CN ~31:2024106813343 ~32:29/05/2024

2024/05250 ~ Complete ~54:A SIMULATION TEST DEVICE FOR CONTROLLING WATER INRUSH DISASTER AND ITS APPLICATION METHOD ~71:Guizhou University, Huaxi District, Guiyang City, Guizhou Province, 550025, People's Republic of China ~72: Beibei ZHANG;Bo LI;Lei YANG;Lulin ZHENG;Pu LIU;Tao WEI;Ye LUO;Yu YANG~

2024/05258 ~ Complete ~54:A TYPE OF ORTHOPEDIC DOCTOR'S ASSISTIVE TRACTION DEVICE ~71:The Fourth Affiliated Hospital of Guangzhou Medical University(Guangzhou Zengcheng District People's Hospital), No. 1, Guangming East Road, Zengjiang Street, Zengcheng District, Guangzhou City, Guangdong Province, 511300, People's Republic of China ~72: Maolin Zhang;Weiqiong Zhang;Xiang Zheng~

2024/05259 ~ Complete ~54:BEAM FOR SCAFFOLD PLATFORMS, SCAFFOLD PLATFORM PLANE, METHOD FOR FORMING A SCAFFOLD PLATFORM PLANE, AND USE OF A BEAM ~71:PERI SE, Rudolf-Diesel-Str. 19, Germany ~72: HELLENSCHMIDT, Julian~ 33:DE ~31:10 2022 200 448.5 ~32:17/01/2022

2024/05257 ~ Complete ~54:A PACKAGING FILM ~71:KOROZO AMBALAJ SANAYI VE TICARET A.S., Ataturk Mahallesi Orhan Veli Caddesi No:12 Kirac, Turkey ~72: ZORLUCA, Mustafa~ 33:TR ~31:2021/021526 ~32:29/12/2021

2024/05261 ~ Complete ~54:STAIRWAY, SET OF STAIRS AND METHOD OF MANUFACTURING A SET OF STAIRS ~71:PERI SE, Rudolf-Diesel-Str. 19, Germany ~72: ATZKERN, Luzie;FRIZ, Manuel;HELLENSCHMIDT, Julian~ 33:DE ~31:10 2022 101 643.9 ~32:25/01/2022

2024/05263 ~ Complete ~54:SUPPRESSION OF SHADE AVOIDANCE RESPONSE IN PLANTS ~71:MONSANTO TECHNOLOGY LLC, 800 North Lindbergh Boulevard, St. Louis, United States of America;PAIRWISE PLANTS SERVICES, INC., 807 East Main Street, Suite 4-100, Durham, United States of America ~72: DENG, Molian;MOJICA, Julius;SLEWINSKI, Thomas Louis;WATTS, Joseph Matthew~ 33:US ~31:63/304,747 ~32:31/01/2022

2024/05269 ~ Complete ~54:ROLLER MACHINE WITH A RADAR MONITORING UNIT, RADAR MONITORING UNIT FOR A ROLLER MACHINE AND A METHOD HERETO ~71:indurad GmbH, Belvedereallee 5, AACHEN 52070, GERMANY, Germany ~72: KIRSCH, Stephan W.;WINKEL, Reik~

2024/05271 ~ Complete ~54:CELLULOSE CARBAMATE POLYMER ~71:Infinited Fiber Company Oy, Tekniikantie 14, ESPOO 02150, FINLAND, Finland ~72: MALANIN, Erkki;MÄKELÄ, Jani;NUOPPONEN, Markus;SIREN, Sakari~ 33:FI ~31:20225009 ~32:07/01/2022

2024/05278 ~ Complete ~54:PORTABLE INTERNAL FRICTION MEASURING INSTRUMENT AND INTERNAL FRICTION MEASUREMENT METHOD ~71:CGN POWER CO., LTD., 18/F South Building, CGN Tower, 2002 Shennan Boulevard, Futian District Shenzhen, Guangdong, 518000, People's Republic of China;CHINA GENERAL NUCLEAR POWER GROUP, 33/F, South Building, CGN Tower, 2002 Shennan Boulevard, Futian District Shenzhen, Guangdong, 518000, People's Republic of China;SUZHOU NUCLEAR POWER RESEARCH INSTITUTE CO., LTD., No.1688, Xihuan Road Suzhou, Jiangsu 215004, People's Republic of China ~72: CHAOLIANG XU;JIAN YIN;QIWEI QUAN;WANGJIE QIAN;WENQING JIA;XIANGBING LIU;YUANFEI LI~ 33:CN ~31:202210004241.8 ~32:04/01/2022

2024/05244 ~ Complete ~54:METHOD FOR IDENTIFYING NATURAL REALGAR AND SYNTHETIC REALGAR BY ARSENIC DISSOLUTION VALENCE ~71:Beijing Center for Disease Prevention and Control, No. 16 Hepingli Middle Street, Dongcheng District, Beijing, People's Republic of China;Institute of Chinese Materia Medica China Academy of Chinese Medical Sciences, No. 16, Nanxiao Street, Inner Dongzhimen, Dongcheng District, Beijing, People's Republic of China ~72: GU Xuezhu;LI Raorao;LIU Liping;LIU Yang;LUO Lu;WANG Yiming;XIN Xueying~

2024/05247 ~ Complete ~54:PLASTIC CARRIER BAG ~71:PAPIER-METTLER KG, Hochwaldstrasse 22, Germany ~72: DONNER, Georg;HORNBERG, Marcel~ 33:EP ~31:23183739.4 ~32:05/07/2023

2024/05254 ~ Complete ~54:MYOSTATIN SIGNAL INHIBITOR ~71:NIPPON SHINYAKU CO., LTD., 14, Kisshoin Nishinosho Monguchicho, Minami-ku, Kyoto-shi, Kyoto, 601-8550, Japan ~72: SHINICHIRO NAKAGAWA~ 33:GB ~31:1821269.6 ~32:28/12/2018

2024/05265 ~ Complete ~54:WIRELESS POWER TRANSFER ~71:Koninklijke Philips N.V., High Tech Campus 52, EINDHOVEN 5656 AG, THE NETHERLANDS, Netherlands ~72: AGAFONOV, Aleksei;STARING, Antonius Adriaan Maria~ 33:EP ~31:21213092.6 ~32:08/12/2021

2024/05267 ~ Complete ~54:ROTATIONAL POSITION SENSOR ~71:Bushnell Inc., 9200 Cody Street, OVERLAND PARK 66214, KS, USA, United States of America ~72: SIZEMORE, Michael A.~ 33:US ~31:17/543,685 ~32:06/12/2021

2024/05251 ~ Complete ~54:A SEEPAGE WATER INRUSH SIMULATION DEVICE, SYSTEM AND METHOD FOR ROCK MASS FAILURE IN COAL SEAM MINING ~71:Guizhou University, Huaxi District, Guiyang City, Guizhou Province, 550025, People's Republic of China ~72: Beibei ZHANG;Bo LI;Hongfei DUAN;Lei LIU;Lulu CHE;Menghua LI;Xianggui KONG;Ye LUO;Yu YANG~

2024/05256 ~ Complete ~54:PROCESS OF MATERIALS RECOVERY FROM ENERGY STORAGE DEVICES ~71:MINIMINES CLEANTECH SOLUTIONS PRIVATE LIMITED, Flat no. 102, Ruheen Eco Homes Apartments, Plot no. 27 Behind D Mart Road, Narsinghpura, Jagatpura, Jaipur, Rajasthan 302017, India ~72: BHARDWAJ, Arvind;KUMAR, Anupam~ 33:IN ~31:202111040571 ~32:07/01/2022

2024/05260 ~ Complete ~54:DESIGNING BIOMOLECULE SEQUENCE VARIANTS WITH PRE-SPECIFIED ATTRIBUTES ~71:ABSCI CORPORATION, 18105 SE Mill Plain Blvd, United States of America ~72: MEIER, Joshua;RAKOCEVIC, Goran;SCHWARTZ, Ariel;SPREAFICO, Roberto;TIJANIC, Nebojsa;WEINSTOCK, Matthew~ 33:US ~31:63/297,679 ~32:07/01/2022;33:US ~31:63/320,067 ~32:15/03/2022;33:US ~31:63/338,398 ~32:04/05/2022;33:US ~31:63/338,433 ~32:04/05/2022;33:US ~31:63/339,450 ~32:07/05/2022;33:US ~31:63/398,222 ~32:15/08/2022;33:US ~31:18/046,849 ~32:14/10/2022

2024/05252 ~ Complete ~54:TEMPORARY SUPPORT SYSTEM FOR ROADWAY TUNNELING OPERATIONS ~71:Anhui Runhuai Energy Storage Technology Development Co., Ltd., Room 1011-A1587, 10th Floor, Shuangying Building, No. 777 Yulan Avenue, Hefei High tech Industrial Development Zone, Hefei City, Anhui Province, People's Republic of China;Lanzhou Institute of Technology, No.1 Gongjiaping East Road, Qilihe

District, Lanzhou City, Gansu Province, People's Republic of China ~72: JIA Shuming;MA Yongqiang;WANG Shengting;WEI Zhen;YUAN Shangke~

2024/05255 ~ Complete ~54:DUAL MATERIAL SHEAR NUT ARRANGEMENT ~71:MOHLALEFI (PTY) LTD., 18 Tongani Street, Bryanston Ext 45, Sandton, Gauteng, 2191, South Africa ~72: GERALD MUNIAH;MARTIN NARE MASITISE~ 33:ZA ~31:2023/04194 ~32:06/04/2023

2024/05264 ~ Complete ~54:FUEL OIL RECLAMATION ~71:SULNOX GROUP PLC, I0 Orange street, Haymarket, United Kingdom ~72: CLARKE, Dan;REDMAN, James~ 33:GB ~31:2118030.2 ~32:13/12/2021

2024/05272 ~ Complete ~54:CELLULOSIC TEXTILE FIBRE ~71:Infinited Fiber Company Oy, Tekniikantie 14, ESPOO 02150, FINLAND, Finland ~72: NUOPPONEN, Markus;SIREN, Sakari;VEIJOLA, Elias~ 33:FI ~31:20225011 ~32:07/01/2022

2024/05248 ~ Complete ~54:EFFICIENT RIDGING AND SALINE-INHIBITING CULTIVATION METHOD FOR SUGAR BEET IN MODERATE SALINE-ALKALI LAND ~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: GAO, Qiang;GUO, Xiaoxia;HAN, Kang;HAN, Ping'an;HUANG, Chunyan;JIAN, Caiyuan;KONG, Dejuan;LI, Yinghao;LI, Zhi;LIANG, Yahui;LIU, Chang;LIU, Huiyu;LIU, Jia;REN, Huimin;SONG, Jianjun;SU, Wenbin;SUN, Mingqi;TIAN, Lu;WANG, Zhenzhen;WEI, Zhigang;ZHANG, Peng~

2024/05253 ~ Complete ~54:STORAGE CHUTE ~71:COMEC INDUSTRIES (PTY) LTD, 43 Tenth Street, Industria, South Africa ~72: MEYER, Christofel Jacobus Johannes;MORETTI, Gian Mauro~ 33:ZA ~31:2023/06160 ~32:12/06/2023

2024/05268 ~ Complete ~54:METHODS AND DEVICES FOR INTERACTIVE RENDERING OF A TIME-EVOLVING EXTENDED REALITY SCENE ~71:InterDigital CE Patent Holdings, SAS, 3 rue du Colonel Moll, PARIS 75017, FRANCE, France ~72: ALLEAUME, Vincent;FONTAINE, Loic;HIRTZLIN, Patrice;JOUET, Pierrick;LELIEVRE, Sylvain~ 33:EP ~31:22305024.6 ~32:12/01/2022

2024/05242 ~ Provisional ~54:SCHOOL PHYSICAL RANKING SYTEM ~71:Edward Modisakgosi, Tloung Village,, South Africa ~72: Edward Modisakgosi~

2024/05246 ~ Complete ~54:METHOD FOR IDENTIFYING HUANGSHAN GONGJU USING FOURIER INFRARED SPECTROSCOPY ~71:Huangshan University, No.39 Xihai Road, Tunxi District, Huangshan City, Anhui Province, People's Republic of China ~72: PAN Le;SHEN Biru;YANG Yujie;YAO Xinzhe;ZHANG Hujun;ZHANG Mingliang;ZHANG Yanfei~

2024/05249 ~ Complete ~54:RAPID SAMPLING DEVICE AND METHOD FOR FOOD AND DRUG TESTING ~71:Tai'an Institute For Food and Drug Control (Tai'an Fiber Inspection Institute), No. 2666, Fengtian Road, Tai'an High-tech Industrial Development Zone, Tai'an, Shan'dong, 271000, People's Republic of China ~72: Chao YIN;Cuihua LIN;Guoli JI;Qing YU;Xia CHEN~

2024/05266 ~ Complete ~54:SOLID COMPOSITION ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: AUSSANT, Emmanuel;RADICE PETITPREZ, Cindy~ 33:GB ~31:2117602.9 ~32:06/12/2021

2024/05276 ~ Complete ~54:ENZYMATIC PROCESS FOR THE PREPARATION OF LACTULOSE ~71:FRIESLANDCAMPINA NEDERLAND B.V., Stationsplein 4, 3818 LE, Amersfoort, Netherlands ~72: LINQIU CAO;MIREILLE MARIA GADELLAA~ 33:EP ~31:22161688.1 ~32:11/03/2022

2024/05280 ~ Complete ~54:USE OF 5-AMINO-2,3-DIHYDRO-1,4-PHTHALAZINEDIONE IN THE TREATMENT OF CONGENITAL MUSCULAR DYSTROPHIES ~71:METRIOPHARM AG, Europaallee 41, 8021, Zürich, Switzerland ~72: FELIX BREMBECK;JÖRG VON WEGERER;SARA SCHUMANN;WOLFGANG BRYSCH~ 33:EP ~31:22000008.7 ~32:07/01/2022

2024/05270 ~ Complete ~54:SUBDERMAL IMPLANT FOR SUSTAINED DRUG DELIVERY ~71:Oak Crest Institute of Science, Oak Crest Institute Of Science, 132 West Chestnut Avenue, MONROVIA 91016, CA, USA, United States of America ~72: BAUM, Marc M.;GUNAWARDANA, Manjula~ 33:US ~31:63/297,191 ~32:06/01/2022

2024/05274 ~ Complete ~54:GASIFIER HAVING LIQUID LEVEL SELF-BALANCING FUNCTION ~71:CHANGZHENG ENGINEERING CO., LIMITED, No.141, Jinghai 4th Road, People's Republic of China ~72: DING, Jianping;GUO, Jinjun;JIANG, Congbin;LI, Xiaofei;LI, Zhenxiang;LIANG, Junhui;LONG, Xiaodong;YUAN, Bing~ 33:CN ~31:202210202390.5 ~32:03/03/2022;33:CN ~31:202220452381.7 ~32:03/03/2022

2024/05277 ~ Complete ~54:ANTIVIRAL COMPOSITION COMPRISING NUCLEOSIDE ANALOGUES DERIVED FROM NUCLEIC ACID AND PHARMACEUTICALLY ACCEPTABLE SALT THEREOF ~71:CJ CHEILJEDANG CORPORATION, 330, Dongho-ro, Jung-gu, Seoul, 04560, Republic of Korea ~72: AH REUM CHO;CHANGSUK LEE;HO JIN MOON;NA-RA LEE;YOUNG NAM KIM~ 33:KR ~31:10-2021-0185397 ~32:22/12/2021;33:KR ~31:10-2022-0101489 ~32:12/08/2022

2024/05279 ~ Complete ~54:HETEROARYL DERIVATIVE AND USE THEREOF ~71:VORONOI INC., 18 Floor, S-dong, 32 Songdogwahak-ro, Yeonsu-gu, Incheon, 21984, Republic of Korea ~72: AHREUM HAN;DAEKWON KIM;DONGKEUN HWANG;EUNHWA KO;HWANGEUN CHOI;HYERIM IM;KYUNEUN KIM;MYUNGHOE HEO;SERIN CHO;SEUNGJU LEE;SUBEEN NAM;SUNGHWAN KIM;YEONGDEOK LEE;YIKYUNG KO~ 33:KR ~31:10-2022-0042193 ~32:05/04/2022

2024/05281 ~ Complete ~54:MACROCYCLIC COMPOUNDS AND USE AS KINASE INHIBITORS ~71:BLOSSOMHILL THERAPEUTICS, INC., 3525 John Hopkins Court, Suite 100 San Diego, California 92121, United States of America ~72: DAYONG ZHAI;EUGENE YUANJIN RUI;EVAN W ROGERS;JINGRONG JEAN CUI~ 33:US ~31:63/296,705 ~32:05/01/2022;33:US ~31:63/435,654 ~32:28/12/2022

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2024/05306 ~ Complete ~54:SUBSTITUTED BICYCLIC HETEROCYCLES AS MALT-1 INHIBITORS ~71:AURIGENE ONCOLOGY LIMITED, 39-40, KIADB Industrial Area, Electronic City Phase II, India ~72: CHIKKANNA, Dinesh;PANIGRAHI, Sunil Kumar;SAMAJDAR, Susanta;SAMMETA, Srinivasa Raju~ 33:IN ~31:202241002859 ~32:18/01/2022

2024/05313 ~ Complete ~54:A SKIN BRIGHTENING COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ANITA DAMODARAN;MRUTHYUNJAYA SWAMY MATHAPATHI;SATISH KUMAR VENKATESH~ 33:EP ~31:22155751.5 ~32:09/02/2022

2024/05303 ~ Complete ~54:METHOD OF PRODUCING A COLD COMPACTIBLE METALLIC POWDER ~71:Commonwealth Scientific and Industrial Research Organisation, Clunies Ross St, Acton, AUSTRALIAN CAPITAL TERRITORY 2601, AUSTRALIA, Australia ~72: CHEN, Ling;WILSON, Robert;YAN, Shiqin;YANG, Kun~ 33:AU ~31:2021904141 ~32:20/12/2021

2024/05283 ~ Provisional ~54:POTENT UNCONVENTIONAL FARMING DESIGN ~71:Bamanye Kayaletu Mvambo, 29 LENIN STREET, South Africa ~72: Bamanye Kayaletu Mvambo~

2024/05299 ~ Complete ~54:PORTABLE MASK STORAGE BAG ~71:SUN, Dongsheng, 28 Pantaogong Road, Nanming District, Guiyang City, People's Republic of China ~72: HU, Shanqing;SUN, Dongsheng~

2024/05304 ~ Complete ~54:POLYCISTRONIC EXPRESSION OF GUT PEPTIDES ~71:MeiraGTx UK II Limited, 92 Britannia Walk, LONDON N1 7NQ, UNITED KINGDOM, United Kingdom ~72: FORBES, Alexandria;GUO, Xuecui~ 33:US ~31:63/361,399 ~32:15/12/2021

2024/05309 ~ Complete ~54:METHODS OF PRODUCING CAROTENOIDS FROM ACID WHEY ~71:AGRICULTURAL GENOMICS INSTITUTE AT SHENZHEN, CHINESE ACADEMY OF AGRICULTURAL SCIENCES, No 7, Pengfei Road Dapeng District Shenzhen, 518120, People's Republic of China;MASSACHUSETTS INSTITUTE OF TECHNOLOGY, 77 Massachusetts Avenue, Cambridge, Massachusetts, 02139, United States of America ~72: ADRIAN FAY;GREGORY STEPHANOPOULOS;JUNICHI MANO;KONSTANTINOS KATSIMPOURAS;YONGSHUO MA~ 33:US ~31:63/304,412 ~32:28/01/2022

2024/05312 ~ Complete ~54:A CONCENTRATED LIQUID COMPOSITION PREMIX ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ARNAB SARKAR;RACHANA SANKAR;SARMISTHA BISWAS~ 33:EP ~31:22156472.7 ~32:14/02/2022

2024/05286 ~ Provisional ~54:TRACKER SUPPORT BRACKET ~71:TRU-TRAC ROLLERS (PTY) LTD., 55 Adriana Crescent, Gateway Industrial Park, Centurion, Gauteng, 0154, South Africa ~72: HENDRIK STEPHANUS PRETORIUS;SHAUN LEROY BLUMBERG~

2024/05302 ~ Complete ~54:LOW PRESSURE PROCESS FOR SYNTHESIS OF $PT(PF_3)_4$ INVOLVING A SOLUBLE INTERMEDIATE AND STORAGE OF OBTAINED $PT(PF_3)_4$ ~71:L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude, 75 Quai D''Orsay, PARIS 75007, FRANCE, France ~72: BLASCO, Nicolas;NIKIFOROV, Grigory~ 33:US ~31:17/546,169 ~32:09/12/2021

2024/05308 ~ Complete ~54:FAP-ALPHA SPECIFIC TUMOR DIAGNOSTIC IMAGING AGENT ~71:JIAXING PHARBERS GENESIS PHARMACEUTICAL TECHNOLOGY CO., LTD., Room 423-1, Unit 1, Building 1, Jinhe Road, Qinshan Street, Haiyan County Jiaxing, Zhejiang 314303, People's Republic of China ~72: CHUN WANG;JINXING NIAN~ 33:CN ~31:202210851703.X ~32:20/07/2022

2024/05314 ~ Complete ~54:A NON-LIVE WIRE MOUNTED SENSOR MODULE AND METHOD FOR MOUNTING THEREOF ~71:INFRAVISION HOLDINGS PTY LTD, 7/44 Junction Drive, Coolum Beach, Queensland, 4573, Australia ~72: CAMERON VAN DER BERG;DANIEL VAN DER BERG~ 33:AU ~31:2021903983 ~32:09/12/2021

2024/05294 ~ Complete ~54:HETEROCYCLIC COMPOUNDS AS IMMUNOMODULATORS ~71:Incyte Corporation, 1801 Augustine Cut-Off, WILMINGTON 19803, DE, USA, United States of America ~72: WU, Liangxing;XIAO, Kaijiong;YAO, Wenqing;ZHANG, Fenglei~ 33:US ~31:62/352,485 ~32:20/06/2016;33:US ~31:62/396,353 ~32:19/09/2016

2024/05307 ~ Complete ~54:CATALYST COMPOSITION ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: BOLINGER, Cornelius Mark;GINESTRA, Josiane Marie-Rose;GRISAFE, David;HUANG, Ke-Wei;SCHIMMING, Sarah~

2024/05310 ~ Complete ~54:LAUNDRY COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: NARAYANAN SUBRAHMANIAM;PANCHANAN BHUNIA~ 33:EP ~31:22156573.2 ~32:14/02/2022

2024/05292 ~ Complete ~54:A HYDROGEOLOGICAL SAMPLING DEVICE ~71:Kunming University of Science and Technology, No. 727, Jingming South Road, Chenggong District, Kunming City, Yunnan Province, 650093, People's Republic of China ~72: Aibing Chen;Baozhu Li;Caixia Li;Haishu Zhong;Longfa Bai;Meina Ye;Pan Xiong;Pengcheng Shi;Tao Ren;Tianmiao He;Wenqiang Jiang;Xianghua Zhai;Xiangsheng Tian;Xiaoling Zhang;Yang Hu;Yongheng Li;Yuang Wang~ 33:CN ~31:202322360074.3 ~32:31/08/2023

2024/05298 ~ Complete ~54:HETEROCYCLIC COMPOUNDS WITH TYROSINE KINASE INHIBITORY ACTIVITY, PREPARATION METHODS THEREFOR AND PHARMACEUTICAL USES THEREOF ~71:Chuzhou University, No. 1, Huifeng West Road, Chuzhou City, Anhui Province, 239000, People's Republic of China ~72: Jin Xin;Liu Changzhi;Qian Hu;Xie Yuliang;Xie Yuxiang~

2024/05317 ~ Provisional ~54:SOIL DIAGENETIC AGENT. RD.43 ~71:MERCY TINYIKO NXUMALO, 766A ROOIBOS STREET, MONTANA GARDENS, South Africa ~72: MERCY TINYIKO NXUMALO~

2024/05285 ~ Provisional ~54:ADJUSTABLE RETURN ROLLER ~71:TRU-TRAC ROLLERS (PTY) LTD., 55 Adriana Crescent, Gateway Industrial Park, Centurion, Gauteng, 0154, South Africa ~72: HENDRIK STEPHANUS PRETORIUS;SHAUN LEROY BLUMBERG~

2024/05287 ~ Provisional ~54:DYNAMIC IMPACT BED ~71:TRU-TRAC ROLLERS (PTY) LTD., 55 Adriana Crescent, Gateway Industrial Park, Centurion, Gauteng, 0154, South Africa ~72: HENDRIK STEPHANUS PRETORIUS~

2024/05288 ~ Complete ~54:OPTIMIZING AUDIO DELIVERY FOR VIRTUAL REALITY APPLICATIONS ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: AGNELLI, Matteo;CZELHAN, Bernd;FUCHS, Harald;MURTAZA, Adrian;PLOGSTIES, Jan~ 33:EU ~31:17196259.0 ~32:12/10/2017

2024/05293 ~ Complete ~54:A METHOD AND SYSTEM FOR DYNAMICALLY ASSESSING SAFETY TOUGHNESS OF FLOODING IN MOUNTAINOUS SUBWAY STATION BASED ON BM-OWA OPERATOR AND CONFLICTUAL ANALYSIS ~71:Chongqing University, No. 174 of Shazheng Street, Shapingba District, Chongqing, People's Republic of China ~72: CAO Zhilin;LI Yunyan;WAN Rong;WANG Yiyang~ 33:CN ~31:CN2024106470803 ~32:23/05/2024

2024/05300 ~ Complete ~54:A CHECK SCALE MONITORING METHOD AND SYSTEM BASED ON INTERNET OF THINGS CONSENSUS DISCRIMINATION ~71:Yongzhou Zhongxing Measurement Service Co., Ltd., Qixin Village, Shangguan Street, Daoxian County, Yongzhou City, Hunan Province, 425300, People's Republic of China ~72: Bin Li;Hongniu Chen;Huimin Zhou~

2024/05290 ~ Complete ~54:OPTIMIZING AUDIO DELIVERY FOR VIRTUAL REALITY APPLICATIONS ~71:FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V., Hansastrasse 27c, Germany ~72: AGNELLI, Matteo;CZELHAN, Bernd;FUCHS, Harald;HOFMANN, Ingo;MURTAZA, Adrian;PLOGSTIES, Jan~ 33:EP ~31:17196259.0 ~32:12/10/2017

2024/05296 ~ Complete ~54:GENETICALLY MODIFIED NON-HUMAN ANIMALS FOR GENERATING THERAPEUTIC ANTIBODIES AGAINST PEPTIDE-MHC COMPLEXES, METHODS OF MAKING AND USES THEREOF ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: MURPHY, Andrew, J.~ 33:US ~31:62/647,720 ~32:24/03/2018;33:US ~31:62/647,724 ~32:24/03/2018

2024/05311 ~ Complete ~54:A CONCENTRATED LIQUID COMPOSITION PREMIX ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: ARNAB SARKAR;RACHANA SANKAR;SARMISTHA BISWAS;SUBHAJIT SARKAR~ 33:EP ~31:22156470.1 ~32:14/02/2022

2024/05315 ~ Complete ~54:WATER DISTRIBUTOR ~71:RIFENG ENTERPRISE (FOSHAN) CO., LTD., F1-F14, No. 1 Rifeng Road, Leping, Sanshui, Foshan, People's Republic of China;RIFENG ENTERPRISE GROUP CO., LTD., 8/F, Rifeng Building, No. 16 Zumiao Road, Foshan, People's Republic of China;RIFENG TECHNOLOGY CO., LTD., F15, No. 1 Rifeng Road, Leping, Sanshui, Foshan, People's Republic of China ~72: LIN, Xiyong;WANG, Hui;XU, Peng;YAO, Yijie;ZHUAN, Wuchao~ 33:CN ~31:202111515241.6 ~32:10/12/2021

2024/05282 ~ Provisional ~54:COMPOSITE SAFETY NET FOR CONCUSSION WAVE MITIGATION ~71:NICAUD COMPANIES 22 (PTY) LTD, Platinum Industrial Park, 88 van Belkum Street, South Africa ~72: FLANAGAN, Fredrick William~

2024/05289 ~ Complete ~54:STRAIN S119 FOR DEGRADING URACIL HERBICIDE AND APPLICATION THEREOF ~71:Yancheng Teachers University, No. 2, Xiwang Avenue South Road, Tinghu District, Yancheng City, Jiangsu Province, 224007, People's Republic of China ~72: JIA, Yan;LI, Jing;LU, Yu'ang;WEN, Yue;XUE, Fei;YAN, Lin;YAO, Li~ 33:CN ~31:202311691833.2 ~32:11/12/2023

2024/05291 ~ Complete ~54:FLOOR REINFORCEMENT BEAM ASSEMBLY, WIDE-BODY TRUCK CARGO BOX, AND ENGINEERING MACHINE ~71:CATERPILLAR INC., 100 NE Adams Street, United States of America ~72: FENG, Kai;SUN, Xiaotai;WANG, Guangrong;WANG, Wenyao;ZHANG, Wei~ 33:CN ~31:202321956374.1 ~32:24/07/2023

2024/05295 ~ Complete ~54:AGRICULTURAL OPERATION MONITORING APPARATUS, SYSTEMS AND METHODS ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: KOCH, Dale;MORGAN, Matthew, P.;STRNAD, Michael~ 33:US ~31:62/682,156 ~32:07/06/2018

2024/05297 ~ Complete ~54:SAFETY PERFORMANCE EVALUATION METHOD FOR BRIDGE CONSTRUCTION SUPPORT SYSTEM ~71:Hefei University of Technology, No. 193 Tunxi Road, Hefei City, Anhui Province, 230009, People's Republic of China ~72: Huan CHEN;Kai PENG;Xianyang FAN;Xingchen KUANG;Yu XIN;Yutian BI;Zhengdi Chen;Zuocai WANG~

2024/05301 ~ Complete ~54:USE OF AMIVANTAMAB TO TREAT COLORECTAL CANCER ~71:Janssen Biotech, Inc., 800/850 Ridgeview Drive, HORSHAM 19044, PA, USA, United States of America ~72: KNOBLAUCH, Roland~ 33:US ~31:63/287,557 ~32:09/12/2021;33:US ~31:63/290,765 ~32:17/12/2021

2024/05305 ~ Complete ~54:APTAMERS AND SMALL MOLECULE LIGANDS ~71:MeiraGTx UK II Limited, 92 Britannia Walk, LONDON N1 7NQ, UNITED KINGDOM, United Kingdom ~72: FORBES, Alexandria;GUO, Xuecui;KIM, Ji-in;LIU, Kevin G.~ 33:US ~31:63/361,400 ~32:15/12/2021

2024/05316 ~ Provisional ~54:CELLPHONE ENHANCEMENT APP/FEATURE ~71:MICHAEL MALEBATSA THAPELO CHAUKE, 18697 KLAS SIBAMBI STREET, MAMELODI EAST, South Africa ~72: MICHAEL MALEBATSA THAPELO CHAUKE~

2024/05284 ~ Provisional ~54:AUTOMATICALLY ADJUSTABLE ROLLER ASSEMBLIES ~71:TRU-TRAC ROLLERS (PTY) LTD., 55 Adriana Crescent, Gateway Industrial Park, Centurion, Gauteng, 0154, South Africa ~72: HENDRIK STEPHANUS PRETORIUS;SHAUN LEROY BLUMBERG~

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2024/05349 ~ Provisional ~54:PERSONALIZED AI AVATAR WITH CONTINUOUS LEARNING CAPABILITY ~71:CASPARUS BRESLER FOURIE, 724 WITDORING AVENUE,, South Africa ~72: JOHANNES ALBERTUS ENGELBRECHT;JOHANNES HUGO ENGELBRECHT~

2024/05347 ~ Provisional ~54:ICEBERG CUP COOLER ~71:Selby Mabaso, 10063A Peza Street, Orlando West, South Africa ~72: Selby Mabaso~

2024/05348 ~ Provisional ~54:PAINT PAIL CONTAINER ~71:NEL,WILLEM HENDRIK, NO1 OSBORNE CLOSE, KOMMETJIE, South Africa ~72: NEL,WILLEM HENDRIK~

2024/05321 ~ Complete ~54:A TORSION-RESISTANT ALUMINUM ALLOY WIND ENERGY CABLE AND ITS MANUFACTURING METHOD THEREOF ~71:C-Kingdom Cable Technology Co., Ltd., NO.888 Tengfei Road, Wangcheng Economic Development Zone, Changsha, Hunan Province, People's Republic of China ~72: Binghua Mao;Hongmei Zhu~ 33:CN ~31:202410267198.3 ~32:08/03/2024

2024/05327 ~ Complete ~54:UNMANNED INTELLIGENT PERCEPTION AND EARLY WARNING METHOD, DEVICE AND MEDIUM FOR URBAN POWER DISTRIBUTION NETWORK RESILIENCE ~71:NANJING TECH UNIVERSITY, No.30 South Puzhu Road, Jiangbei New Area, Nanjing, Jiangsu, 211816, People's Republic of China ~72: Limin Song;Xiaogang Cheng;Yi Chen;Yong Shi~ 33:CN ~31:CN 202311347113.4 ~32:17/10/2023

2024/05331 ~ Complete ~54:SPIROCYCLIC PIPERIDINYL DERIVATIVES AS COMPLEMENT FACTOR B INHIBITORS AND USES THEREOF ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: ADAMS, Christopher M.;CZABANIUK, Lara C.;FLOHR, Stefanie;GESSIER, François;HEDIGER, Michael Christoph;HURTH, Konstanze;LABBE-GIGUERE, Nancy;LIMA, Fabio;PATEL, Tajesh;SENDZIK, Martin;SIMIC, Oliver;VITREY, Angela;VULPETTI, Anna~ 33:US ~31:63/302,246 ~32:24/01/2022

2024/05339 ~ Complete ~54:CONVERGENCE MONITOR ~71:R.J. Goldspink Pty Limited, 18 Cairo Street, KANDOS 2848, NSW, AUSTRALIA, Australia ~72: GOLDSPINK, Robert~ 33:AU ~31:2021904005 ~32:10/12/2021

2024/05326 ~ Complete ~54:MOBILE HANGING BASKET FOR BRIDGE CONCRETE GUARDRAIL CONSTRUCTION ~71:China Railway Seventh Group Co., LTD, No.1225,East-Hanghai Road, Zhengzhou, Henan, 450016, People's Republic of China;Overseas Company of China Railway Seventh Bureau Group Co., Ltd., Zone B and D, 3rd Floor, No. 1225 Hanghai East Road,, Zhengzhou Economic and Technological Development Zone, Zhengzhou, Henan, 450016, People's Republic of China ~72: Chi Yang;Dongsheng Chang;Haigang Wang;Haitao Yang;Hongjiang Wang;Jun Zeng;Liang Pan;Mingjian Zhang;Ping Lu;Shuguang Wei;Shuqiang Ma;Songxian Li;Tao Zhang;Xiaoping Huang;Yang Jiang;Yunlong Liu~ 33:CN ~31:CN202421310391.2 (DAS:F0FC) ~32:07/06/2024

2024/05329 ~ Complete ~54:METHOD FOR MIXING SOWING AND FERTILIZING ON SANDY LAND FOR FORAGE PRODUCTION WITH MIXED SOWING OF LEGUME AND GRASS ~71:Inner Mongolia Minzu University, No. 996, Xilamulun Street (West), Horqin District, Tongliao City, Inner Mongolia Autonomous Region, 028007, People's Republic of China ~72: Hao Feng;Yu Tiefeng~

2024/05341 ~ Complete ~54:FERMENTED MOLASSES COMPOSITION, AND USES THEREOF ~71:Lesaffre et Compagnie, 41 rue Etienne Marcel, PARIS 75001, FRANCE, France ~72: LEBRUN, Xavier~ 33:FR ~31:2200132 ~32:10/01/2022

2024/05319 ~ Complete ~54:POLYANILINE COATED CARBON NANOFIBER COMPOSITE, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:Beijing Polytechnic College, No. 368 Shimen

Road, Shijingshan District, Beijing, 100042, People's Republic of China ~72: LIU, Chong;YANG, Wenwen;ZHANG, Wei;ZHOU, Wei~

2024/05323 ~ Complete ~54:PREPARATION METHOD AND APPLICATION OF FLUORESCENT CARBON DOTS FROM PEANUT POWDER ~71:Huangshan University, No.39 Xihai Road, Tunxi District, Huangshan City, Anhui Province, People's Republic of China ~72: PAN Le;SHEN Biru;YANG Yujie;ZHANG Hui;ZHANG Mingliang;ZHANG Yanfei~

2024/05324 ~ Complete ~54:FULL-AUTOMATIC HEALTH CARE VEHICLE FOR BRIDGE CEMENT CONCRETE WALL GUARDRAIL ~71:Jiangsu Jiaotong College, No.500 Changxiang West Avenue, Dantu New City, Dantu District, Zhenjiang City, Jiangsu Province, People's Republic of China ~72: TANG Bin;WANG Ruiwen~

2024/05332 ~ Complete ~54:A ROOFTOP TENT ~71:GOODWIN, Rebecca, 517 The Stables, Blair Atholl Estate, Lanseria, South Africa ~72: CORBETT, Jeremy;RIVETT-CARNAC, Sebastian;ROBERTSON, Robin Stuart~ 33:ZA ~31:ZA 2021/10951 ~32:24/12/2021

2024/05344 ~ Complete ~54:USE OF A CLASS OF 1,4-DIHYDRO-NAPHTHYRIDINE DERIVATIVES IN TREATMENT OF TUMORS ~71:NEURODAWN PHARMACEUTICAL CO., LTD., L3244, 3rd Floor, Chuangye Building, No. 1009 Tianyuan East Road, Jiangning District, Nanjing, Jiangsu, 211199, People's Republic of China ~72: FANG FANG;FULONG LI;LEI WANG;LIN FENG;RONG CHEN;WEIDONG YANG;WENJI AN;YAO HUA;ZHENGPING ZHANG~ 33:CN ~31:202111599362.3 ~32:24/12/2021

2024/05350 ~ Provisional ~54:BUILDING BLOCKS (BRICKS) ~71:NEL,WILLEM HENDRIK, NO1 OSBORNE CLOSE, KOMMETJIE, South Africa ~72: NEL,WILLEM, HENDRIK~

2024/05335 ~ Complete ~54:CONTEXT ADAPTIVE BINARY ARITHMETIC CODING (CABAC) PROBABILITY ESTIMATION FOR VIDEO CODING ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: DONG, Jie;KARCZEWICZ, Marta;SEREGIN, Vadim~ 33:US ~31:63/266,623 ~32:10/01/2022;33:US ~31:18/145,399 ~32:22/12/2022

2024/05342 ~ Complete ~54:LIPID COMPOUNDS AND LIPID NANOPARTICLE COMPOSITIONS ~71:SUZHOU ABOGEN BIOSCIENCES CO., LTD., B1-501, 218 Xinghu Ave, Biobay, Suzhou Industrial Park Suzhou, People's Republic of China ~72: WANG, XiuLian;YING, Bo~ 33:CN ~31:PCT/CN2022/072694 ~32:19/01/2022;33:CN ~31:PCT/CN2022/116960 ~32:05/09/2022;33:CN ~31:202211741985.4 ~32:29/12/2022

2024/05345 ~ Complete ~54:CLAMPING DEVICE FOR CABLE CONNECTOR ASSEMBLY ~71:CMP PRODUCTS LIMITED, 11 Glasshouse Street, St Peters, Newcastle upon Tyne, Tyne and Wear, NE6 1BS, United Kingdom ~72: IAIN BIRRELL;LEE FRIZZELL~ 33:EP ~31:22201984.6 ~32:17/10/2022

2024/05320 ~ Complete ~54:COMPOSITE MICROBIAL PREPARATION FOR IMPROVING QUALITY OF GROUPER CULTURE WASTEWATER, AND PREPARATION METHOD THEREFOR ~71:Yazhou Bay Innovation Institute of Hainan Tropical Ocean University, 6th Floor, Hainan Ruize Office Building, Yazhou Bay Science and Technology City, Yazhou District, Sanya City, Hainan Province, 572000, People's Republic of China ~72: CHEN, Pan;CHEN, Yan;HUANG, Hai;LI, Wenfeng;LOH Jiun Yan;YANG, Chaojie;YANG, Ning~

2024/05325 ~ Complete ~54:IMPACT COMPACTION MODEL TESTING DEVICE ~71:China Railway Seventh Group Co., LTD, No.1225,East-Hanghai Road, Zhengzhou, Henan, 450016, People's Republic of China;Overseas Company of China Railway Seventh Bureau Group Co., Ltd., Zone B and D, 3rd Floor, No. 1225 Hanghai East Road, Zhengzhou Economic and Technological Development Zone, Zhengzhou, Henan, 450016, People's Republic of China ~72: Chi Yang;Dongsheng Chang;Haigang Wang;Haitao Yang;Hongjiang Wang;Jun

Zeng;Liang Pan;Mingjian Zhang;Ping Lu;Shuguang Wei;Shuqiang Ma;Songxian Li;Tao Zhang;Xiaoping Huang;Yang Jiang;Yunlong Liu~ 33:CN ~31:CN202421280635.7(DAS: EB44) ~32:05/06/2024

2024/05328 ~ Complete ~54:APPLICATION OF EFFECTS OF LEGUME AND GRASS COMBINATION AND PLANTING METHODS ON FORAGE YIELD IN SANDY LAND ~71:Inner Mongolia Minzu University, No. 996, Xilamulun Street (West), Horqin District, Tongliao City, Inner Mongolia Autonomous Region, 028007, People's Republic of China;Inner Mongolia Pratacultural Technology Innovation Center Co. Ltd, No. 996, Xilamulun Street (West), Horqin District, Tongliao City, Inner Mongolia Autonomous Region, 028007, People's Republic of China ~72: Chen Xiang;Gao Kai;Hao Feng;Wang Zhaoming;Yu Tiefeng;Zhang Jian~

2024/05334 ~ Complete ~54:A MULTI-PHASE ROTOR, SYSTEM AND METHOD FOR MAINTAINING A STABLE VAPOUR CAVITY ~71:Cre 8 Technologies Limited, 8 Telford Avenue, Mout Eden, AUCKLAND 1041, NEW ZEALAND, New Zealand ~72: BUYS, Alan;WARNER, Clifford Roy~ 33:NZ ~31:783383 ~32:10/12/2021

2024/05343 ~ Complete ~54:ANTI-CDH6 ANTIBODIES AND ANTIBODY-DRUG CONJUGATES THEREOF ~71:MULTITUDE THERAPEUTICS INC., 101, 201, 301, 401, Unit 10, No.159 Tianzhou Road, Xuhui District Shanghai, 200233, People's Republic of China ~72: JING SHI;MINGQIAO WANG;RONG PAN;SHU-HUI LIU;XUN MENG;YIQIANG WANG;YUEYUN JIANG;ZHAOHUI WANG~ 33:CN ~31:202111507685.5 ~32:10/12/2021;33:CN ~31:PCT/CN2021/136994 ~32:10/12/2021

2024/05346 ~ Provisional ~54:ICEBERG CUP COOLER ~71:SELBY MABASO, 10063A PEZA STREET, South Africa ~72: SELBY MABASO~

2024/05322 ~ Complete ~54:METHOD FOR EFFICIENTLY EXTRACTING PECTIN FROM SUNFLOWER HEADS AS RAW MATERIAL AND APPLICATION THEREOF ~71:Inner Mongolia Agricultural University, No. 306, Zhaowuda Road, Saihan District, Hohhot City, Inner Mongolia, 010000, People's Republic of China ~72: BAI, Fan;WU, Jindi;YAN, Xinlei;YANG, Xujin~ 33:CN ~31:202410591440.2 ~32:14/05/2024

2024/05330 ~ Complete ~54:SULFATE CORROSION-RESISTANT CONCRETE ~71:CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING BUREAU GROUP CO., LTD., No. 32, Zhonghuan West Road, Pilot Free Trade Zone (Airport Economic Zone), Tianjin City, 300300, People's Republic of China;THE 5TH ENGINEERING CO., LTD. OF CHINA RAILWAY CONSTRUCTION BRIDGE ENGINEERING BUREAU GROUP, No. 1000, Middle Section, Shulong Avenue, Xindu Street, Xindu District, Chengdu City, Sichuan Province, 610500, People's Republic of China ~72: He Guochun;He Shimei;Jiang Bo;Meng Jianbing;Peng Zhongwen;Shi Hongchao;Zhang Lei;Zhu Peng~ 33:CN ~31:202311796072.7 ~32:25/12/2023

2024/05340 ~ Complete ~54:STAT MODULATORS AND USES THEREOF ~71:BIFULCO, Neil, 15 Lillian Ave, SUDBURY 01776, MA, USA, United States of America;BREGMAN, Howard, 12 Howard St., MELROSE 02176, MA, USA, United States of America;CIANCHETTA, Giovanni, 82 Herrick Road, BOXFORD 01921, MA, USA, United States of America;HODOUS, Brian, 22 Lawrence Lane, ARLINGTON 02474, MA, USA, United States of America;REZNIK, Samuel K., 35 Walden St, Apt. 3f, CAMBRIDGE 02140, MA, USA, United States of America;Recludix Pharma, Inc., 222 Third Street, Suite 1320, CAMBRIDGE 02142, MA, USA, United States of America;SICKMIER, Ernest Allen, 61 Hunting Rd, NEEDHAM 02494, MA, USA, United States of America;TANG, Yong, 6 Plover St, WEST ROXBURY 02132, MA, USA, United States of America;TASKER, Andrew, 277 Talbert Ave, SIMI VALLEY 93065, CA, USA, United States of America;TIAN, Xia, 931 Massachusetts Ave. #604, CAMBRIDGE 02139, MA, USA, United States of America;YEOMAN, John, 215 Harvard Street, Unit 13, MEDFORD 02155, MA, USA, United States of America ~72: BIFULCO, Neil;BREGMAN, Howard;CIANCHETTA, Giovanni;HODOUS, Brian;REZNIK, Samuel K.;SICKMIER, Ernest Allen;TANG, Yong;TASKER, Andrew;TIAN, Xia;VASWANI, Rishi G.;YEOMAN, John~ 33:US ~31:63/297,874 ~32:10/01/2022;33:US ~31:63/337,425 ~32:02/05/2022

2024/05336 ~ Complete ~54:NEW USES OF PHENMEDIPHAM AND HERBICIDAL COMBINATIONS COMPRISING PHENMEDIPHAM ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Bayer CropScience LP, 800 North Lindbergh Blvd., SAINT LOUIS 63167, MO, USA, United States of America ~72: BICKERS, Udo;De VULDER, Catherine;KÜHNHOLD, Volker;LORENTZ, Lothar;MAAS, Andrea;STOLZ, Sabine;TOSSENS, Herve~ 33:EP ~31:21213884.6 ~32:10/12/2021;33:US ~31:63/341,570 ~32:13/05/2022

2024/05338 ~ Complete ~54:TREATMENT OF GM2 GANGLIOSIDOSIS ~71:Azafaros B.V., J.H. Oortweg 21, LEIDEN 2333 CH, THE NETHERLANDS, Netherlands ~72: BLATTER, Fritz;HETT, Robert;LANDSKRONER, Kyle;ROBIN, Jennifer~ 33:EP ~31:22150783.3 ~32:10/01/2022;33:EP ~31:22193136.3 ~32:31/08/2022

2024/05333 ~ Complete ~54:PROCESS FOR RECOVERY OF COMPONENT MATERIALS FROM COMPOSITE PRODUCTS COMPRISING UNCURED RUBBER AND A REINFORCEMENT MATERIAL ~71:RECYCLATECH GROUP LIMITED, 1 West Regent Street, United Kingdom ~72: BELL, David;TURNER, Andrew~ 33:GB ~31:2118205.0 ~32:15/12/2021

2024/05318 ~ Provisional ~54:HYDRO-GRAVITY ELECTRICAL ENERGY GENERATING SYSTEM ~71:CHETTIAR, Rubendra Jugnatha, 6 Kiepersol Drive, Carlswald Estate, 140 Walton Road, CARLSWALD 1685, Gauteng, SOUTH AFRICA, South Africa ~72: CHETTIAR, Rubendra Jugnatha~

2024/05337 ~ Complete ~54:FILM FORMING COSMETIC INGREDIENTS COMPRISING BOSWELLIA THICK OIL AND OAT KERNEL OIL ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: DINANT-BILINSKI, Céline;LOYENET, Juliette;ROLLAND, Yohan~ 33:GB ~31:2117863.7 ~32:10/12/2021

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2024/05356 ~ Complete ~54:INTELLIGENT RICE-TREASURE PREPARATION SYSTEM AND PREPARATION PROCESS ~71:HUNAN ZHUNONG RICE INDUSTRY CO.,LTD., Dechang Industrial Park, Nanxian Economic Development Zone, Nanzhou Town, Nanxian County, Yiyang City, Hunan Province, 413208, People's Republic of China ~72: CHEN Chaojun;DING Yuqin;HU Jian;HUANG Haowen;HUANG Qingming;LI Jiangtao;LIAO Juan;LIN Qinlu;SU Li~ 33:CN ~31:202410359279.6 ~32:27/03/2024

2024/05361 ~ Complete ~54:A HEATING REACTOR FOR THE PREPARATION OF ORAL MATERIALS ~71:Shanghai Children’s Hospital, No. 355, Luding Road, Putuo District, Shanghai City, 200062, People's Republic of China ~72: Jinghan Guo;Yue Zhang~

2024/05375 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS COMPRISING 2-[(4S)-8-FLUORO-2-[4-(3-METHOXYPHENYL)PIPERAZIN-1-YL]-3-[2-METHOXY-5-(TRIFLUOROMETHYL)PHENYL]-4H-QUINAZOLIN-4-YL]ACETATE AND POTASSIUM IONS ~71:AIC246 AG & Co. KG, Friedrich-Ebert-Straße 475, WUPPERTAL 42117, GERMANY, Germany ~72: BUSCHMANN, Helmut;CERÓN BERTRAN, Jordi Carles;GOLDNER, Thomas~ 33:EP ~31:21216336.4 ~32:21/12/2021

2024/05380 ~ Complete ~54:LARGE-SCALE FLAVIVIRAL VACCINE PRODUCTION AND MANUFACTURE ~71:Takeda Vaccines, Inc., 75 Sidney Street, Cambridge 02139, MA, USA, United States of America ~72: LEE, Yockann;LIVENGOOD, Jill A.;LUO, Weiwen;SANTANGELO, Joseph David~ 33:US ~31:63/302,910 ~32:25/01/2022;33:US ~31:63/302,920 ~32:25/01/2022;33:US ~31:63/385,274 ~32:29/11/2022;33:US ~31:63/385,309 ~32:29/11/2022

2024/05353 ~ Provisional ~54:CONDITIONING DEVICE ~71:AT VDS SQUARE ACADEMY (PTY) LTD, 10 Sparrow Street, Rant en Dal, South Africa ~72: TBA~

2024/05363 ~ Complete ~54:METHOD FOR INDUCING SEEDLINGS OF UNCARIAE RAMULUS CUM UNCIS ~71:GUANGXI BOTANICAL GARDEN OF MEDICINAL PLANTS, 189, Changgang Road, Xingning District, People's Republic of China ~72: BAI, Longhua;HUANG, Hao;WAN, Lingyun;WEI, Shugen;WEI, Ying;ZHAI, Yongjin;ZHANG, Zhanjiang~

2024/05364 ~ Complete ~54:POROUS CARBON NANOFIBER MATERIAL HAVING PARALLEL PORE STRUCTURES AND PREPARATION METHOD THEREFOR ~71:Anhui Science And Technology University, No. 9 Donghua Road, Fengyang County, Chuzhou, Anhui, 233100, People's Republic of China ~72: LI, Zirong;LIU, You;WEI, Kaiyuan;ZHANG, Erhui;ZHOU, Yongsheng~ 33:CN ~31:202310059994.3 ~32:18/01/2023

2024/05378 ~ Complete ~54:AEROSOL PROVISION ARRANGEMENT ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BAKER, Darryl;BRUTON, Connor;CROSIER, Mark;KERSEY, Robert;ROSSER, Nicholas~ 33:GB ~31:2200783.5 ~32:21/01/2022

2024/05382 ~ Complete ~54:POLYNUCLEOTIDES FOR MODIFYING ORGANISMS ~71:Flagship Pioneering Innovations VII, LLC, 55 Cambridge Parkway, 8th Floor, Suite 800E, CAMBRIDGE 02142, MA, USA, United States of America ~72: DENNIS, Elizabeth Jane Antonelli;HALAC, Mehmet Ali;HAO, Yumeng;KHAKHAR, Arjun Devang;KREMER, James Michael;KUMAR, Jayashree;LIN, Chien-Yuan;MARTIN, Barry Andrew;NIU, Yajie;SHARPE, Michka Gabrielle;SINGH, Aditya Sushil Kumar;SPRAGUE, Daniel Alexander;TRAN, Phu Tri~ 33:US ~31:63/266,967 ~32:20/01/2022;33:US ~31:63/379,056 ~32:11/10/2022

2024/05390 ~ Complete ~54:CONDUCTIVE COMPONENT, IMAGING ASSEMBLY, PROCESSING BOX, PROCESSING BOX GROUP, AND IMAGE FORMING APPARATUS ~71:ZHUHAI PANTUM ELECTRONICS CO., LTD., Building 02, Building 06, Building 08, No. 888, Shengping Avenue, People's Republic of China ~72: SHAO, Zhe;XIA, Xiangchao;YANG, Hongjian;YU, Hongjie~ 33:CN ~31:202123372434.9 ~32:29/12/2021;33:CN ~31:202211470376.X ~32:23/11/2022

2024/05371 ~ Complete ~54:CANCER TREATMENTS WITH TLR7/8 AGONISTS ~71:ASCENDIS PHARMA ONCOLOGY DIVISION A/S, TUBORG BOULEVARD 12, 2900 HELLERUP, DENMARK, Denmark ~72: MILLER BREINHOLT, Vibeke;SINGEL, Stina~ 33:US ~31:63/288,957 ~32:13/12/2021;33:EP ~31:22205987.5 ~32:08/11/2022

2024/05385 ~ Complete ~54:A MIXED PROCESS AND SYSTEM FOR PREPARING A LIQUID OAT BASE OR DRINK FROM AN OAT DERIVED MATERIAL ~71:OATLY AB, Box 588, 201 25, MALMÖ, Sweden ~72: DAVID HELLBORG;JOAKIM BJUNÖ;KARIN PETERSSON;SOFIA EHLDE~

2024/05374 ~ Complete ~54:BULLET CAPTURING BALLISTIC SLUGS ~71:ALTERNATIVE BALLISTICS CORPORATION, 5940 S. Rainbow Blvd., United States of America ~72: ELLIS, Christian;WEINRIB, Benjamin~ 33:US ~31:17/644,060 ~32:13/12/2021

2024/05387 ~ Complete ~54:ISOMERIC MIXTURE OF REACTIVE DYES AND THEIR USE FOR THE DYEING OR PRINTING OF TEXTILE FIBRE MATERIALS ~71:ARCHROMA (SWITZERLAND) GMBH, Hardstrasse 1 , 4133, Pratteln, Switzerland ~72: FANNY EHRET;GEORG ROENTGEN;HUBERT CHRISTNACHER;JEAN-CHRISTOPHE GRACIET;MICHAEL NICOLLET~ 33:EP ~31:22153149.4 ~32:25/01/2022;33:EP ~31:22172397.6 ~32:09/05/2022

2024/05352 ~ Provisional ~54:PIPE CONCENTRATOR TECHNOLOGY ~71:Josius Kgosiyame Gaanakgomo, 20 Magriet Ave, GeelhoutPark Ext 6, South Africa ~72: Josius Kgosiyame Gaanakgomo~ 33:ZA ~31:JKG712 ~32:09/07/2024

2024/05359 ~ Complete ~54:A PREPARATION METHOD AND EQUIPMENT FOR TURBID DRY BEER OF GOLDEN-SILK JUJUBE AND POMEGRANATE ~71:Shandong Institute of Pomology, Institute of Pomology, No.66 Longtan Road, Taishan District, Tai'an City, Shandong Province, 271000, People's Republic of China ~72: Cheng LIU;Guangning SHEN;Juanxia YANG;Qiong ZHANG;Tingting QI;Xin CHEN;Xuemei YANG~

2024/05362 ~ Complete ~54:PROPAGATION METHOD OF PHOEBE ZHENNAN ~71:Guizhou Botanical Garden (Guizhou Landscape Science Institute, Guizhou Botanical Institute), No. 86, Luchongguan Road, Yunyan District, Guiyang City, Guizhou Province, People's Republic of China ~72: Huang Fengyan;Li Yuanyuan;Liu Haiyan;Zou Jun~

2024/05388 ~ Complete ~54:A MICROCHIP FOR DRIVING A RESONANT CIRCUIT ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~

2024/05365 ~ Complete ~54:PURIFYING METHOD FOR AN ELECTROLYTE LIQUID OF A REDOX FLOW BATTERY ~71:ENEROX GMBH, IZ NÖ-SÜD, STRASSE 3, OBJEKT M 36, 2355 WIENER NEUDORF, AUSTRIA, Austria ~72: MARDILOVICH, Pavel;POKORNY, Peter~ 33:AT ~31:A51006/2021 ~32:15/12/2021

2024/05368 ~ Complete ~54:CAMPTOTHECIN COMPOUND AND CONJUGATE THEREOF ~71:JIANGSU MABWELL HEALTH PHARMACEUTICAL R&D CO., LTD., 3RD FLOOR, NATIONAL NEW DRUG INNOVATION BASE, NO. 1 YAOCHENG AVENUE, CHINA MEDICAL CITY TAIZHOU CITY, JIANGSU 225300, CHINA, People's Republic of China;MABWELL (SHANGHAI) BIOSCIENCE CO., LTD., FLOOR 4, BUILDING 3# OF ZHANGJIANG CREATIVE PARK, NO. 576 LIBING ROAD, PUDONG NEW DISTRICT SHANGHAI 201210, CHINA, People's Republic of China ~72: TAN, Xiaoding;WANG, Zhenzhen;XU, Hui;ZHOU, Wei;ZHU, Huikai~ 33:CN ~31:202111544686.7 ~32:16/12/2021

2024/05354 ~ Provisional ~54:METHOD AND SYSTEM FOR LOW-COST ENERGY GENERATION USING REPURPOSED MAGNETRON MAGNETS AND MAGNETIC RELAXATION EFFECT ~71:UNIVERSITY OF SOUTH AFRICA, 1 Preller Street Muckleneuk Ridge, South Africa ~72: SNYMAN, LUKAS WILLEM~

2024/05357 ~ Complete ~54:STRAW DECOMPOSITION COMPOUND CONTAINING BACTERIA, ENZYMES, AND NUTRIENTS ~71:Huaiyin Institute of Agricultural Sciences of Xuhuai Region in Jiangsu, No. 104, Huaihai North Road, Huai'an City, Jiangsu Province, 223001, People's Republic of China ~72: CHEN, Chuan;DONG, Qingjun;DONG, Yubing;FAN, Maolin;JI, Li;LI, Chuanzhe;LI, Qing;LI, Weihong;SHAO, Wenqi;SUN, Chunmei;WANG, Qin;ZHANG, Ankang;ZHANG, Miao;ZHONG, Ping;ZHUANG, Chun~

2024/05377 ~ Complete ~54:MANGANESE TITANATE-CONTAINING FISCHER-TROPSCH CATALYST AND METHODS FOR MAKING AND USING SAME ~71:BP p.l.c., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom ~72: PATERSON, Alexander James;VAN RENSBURG, Hendrik~ 33:EP ~31:21217619.2 ~32:23/12/2021

2024/05383 ~ Complete ~54:STABLE PHARMACEUTICAL COMPOSITION OF RECEPTOR AGONIST, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047, People's Republic of China ~72: HAOHUA HAO;JUN YU;LI DONG;YAN HAN;YANG SONG~ 33:CN ~31:202210021736.1 ~32:10/01/2022

2024/05367 ~ Complete ~54:PRECIPITATED SILICA AND METHODS THEREOF ~71:EVONIK OPERATIONS GMBH, RELLINGHAUSER STRASSE 1-11, 45128 ESSEN, GERMANY, Germany ~72: DARSILLO, Michael,

S.;GALLIS, Karl, W.;LUNDQUIST, Eric G.;NASSIVERA, Terry, W.;SINCLAIR, Fitzgerald, A.~ 33:US ~31:63/291,590 ~32:20/12/2021;33:EP ~31:22160705.4 ~32:08/03/2022

2024/05370 ~ Complete ~54:O-PHOSPHOSERINE-PRODUCING MICROORGANISM, AND METHOD FOR PRODUCING O-PHOSPHOSERINE OR L-CYSTEINE BY USING SAME ~71:CJ CHEILJEDANG CORPORATION, 330, DONGHO-RO, JUNG-GU, SEOUL 04560, REP OF KOREA, Republic of Korea ~72: JUNG, Hwi-Min;PARK, Hye Min;RHO, Jin Ah;SIM, Hee-jin~ 33:KR ~31:10-2021-0193961 ~32:31/12/2021

2024/05372 ~ Complete ~54:PEPTIDES AND METHODS FOR USE IN TREATING PAIN ~71:TAFALGIE THERAPEUTICS, 163 AVENUE DE LUMINY, PARC SCIENTIFIQUE ET TECHNOLOGIQUE DE LUMINY, BÂT. CCIMP, 13009 MARSEILLE, FRANCE, France ~72: CASTETS, Francis;GAILLARD, Stéphane;MOQRICH, Abdelaziz~ 33:EP ~31:21306835.6 ~32:17/12/2021

2024/05386 ~ Complete ~54:A BATCH PROCESS AND SYSTEM FOR PREPARING A LIQUID OAT BASE OR DRINK FROM AN OAT MATERIAL ~71:OATLY AB, Box 588, 201 25, MALMÖ, Sweden ~72: DAVID HELLBORG;JOAKIM BJUNÖ;KARIN PETERSSON;SOFIA EHLDE~

2024/05379 ~ Complete ~54:INHIBITORS OF COMPLEMENT FACTORS AND USES THEREOF ~71:Annexon, Inc., 1400 Sierra Point Parkway, Building C, 2nd Floor, BRISBANE 94005, CA, USA, United States of America ~72: ARTIS, Dean R.;BEATO, Claudia;DI GUGLIELMO, Bruno;FAROLDI, Federica;LESLIE, Colin P.;MILEO, Luca B.;PADRONI, Chiara;SORANA, Federico~ 33:US ~31:63/299,712 ~32:14/01/2022

2024/05381 ~ Complete ~54:GENERATING SHARED PRIVATE KEYS ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: PETTIT, Michaella~ 33:GB ~31:2200898.1 ~32:25/01/2022

2024/05389 ~ Complete ~54:AN APPARATUS FOR TRANSMITTING ULTRASONIC WAVES ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~

2024/05360 ~ Complete ~54:A DYNAMIC MONITORING DEVICE AND METHOD FOR COAL MINE GROUNDWATER ~71:Xichuan Coal Mine Branch, Huaneng Tongchuan Zhaojin Coal Power Co., Ltd., Yumen County, Miaowan Town, Yaozhou District, Tongchuan City, Shaanxi Province, 727100, People's Republic of China ~72: Bo Liu;Chao Zhang;Jiangbo Di;Tao Hu;Wei Yi;Xuyu Huang;Yuhui Miao~ 33:CN ~31:202410783093.3 ~32:17/06/2024

2024/05355 ~ Complete ~54:ACCURATE IDENTIFICATION METHOD FOR NATURAL FREQUENCY AND TENSION OF CABLE UNDER COMPLEX BOUNDARY CONDITIONS ~71:HEFEI UNIVERSITY OF TECHNOLOGY, 193 Tunxi Road, Baohe District, Hefei, Anhui, 230009, People's Republic of China ~72: DUAN, Dayou;HOU, Weichao;JIANG, Yunpeng;LIU, Zongzu;SHI, Haijian;WANG, Dingtang;WANG, Zuocai;XIN, Yu;XU, Jinjia~

2024/05373 ~ Complete ~54:COMBINATION THERAPY COMPRISING AN ANTI-IL-23 ANTIBODY AND A CORTICOSTEROID FOR TREATING PSORIASIS ~71:SUN PHARMACEUTICAL INDUSTRIES LTD., Sun House, Plot No. 201 B/1, Western Express Highway, Goregaon (E), India ~72: BAGEL, Jerry;NELSON, Elise;NOVAK, Kristin~ 33:US ~31:63/299,181 ~32:13/01/2022

2024/05366 ~ Complete ~54:INJECTABLE FORMULATION CONTAINING ISOXAZOLINE DERIVATIVE ~71:LG CHEM, LTD., 128, YEOUI-DAERO, YEONGDEUNGPO-GU, SEOUL 07336, REPUBLIC OF KOREA, Republic of Korea ~72: BAEK, Jaeuk;KIM, Sung Won;YOON, Jung Woon~ 33:KR ~31:10-2022-0010141 ~32:24/01/2022

2024/05369 ~ Complete ~54:NEW CONJUGATED NUCLEIC ACID MOLECULES AND THEIR USES ~71:VALERIO THERAPEUTICS, 49 BOULEVARD DU GÉNÉRAL MARTIAL VALIN, 75015 PARIS, FRANCE, France ~72: LEMAITRE, Marc;ROUX, Loïc;ZANDANEL, Christelle~ 33:EP ~31:21306798.6 ~32:16/12/2021

2024/05376 ~ Complete ~54:METHODS FOR TREATMENT OF ORNITHINE TRANSCARBAMYLASE (OTC) DEFICIENCY ~71:The Trustees of the University of Pennsylvania, 3600 Civic Center Blvd., 9th Floor, PHILADELPHIA 19104, PA, USA, United States of America ~72: TRETIAKOVA, Anna;WANG, Lili;WILSON, James M.~ 33:US ~31:63/301,917 ~32:21/01/2022;33:US ~31:63/331,384 ~32:15/04/2022;33:US ~31:63/364,861 ~32:17/05/2022;33:US ~31:63/370,049 ~32:01/08/2022;33:US ~31:63/379,067 ~32:11/10/2022

2024/05384 ~ Complete ~54:A CONTINUOUS PROCESS AND SYSTEM FOR PREPARING A LIQUID OAT BASE OR DRINK FROM AN OAT DERIVED MATERIAL ~71:OATLY AB, Box 588, 201 25, MALMÖ, Sweden ~72: DAVID HELLBORG;JOAKIM BJUNÖ;KARIN PETERSSON;SOFIA EHLDE~

2024/05351 ~ Provisional ~54:HIGH VOLTAGE PULSE POWER SUPPLY ~71:Andries Herculus Putter, F16 Misty Bay, 55 Ring road, South Africa ~72: Andries Herculus Putter~ 33:ZA ~31:None ~32:09/07/2024

2024/05358 ~ Complete ~54:METHOD FOR QUANTIFICATION OF AN INGREDIENT USED IN VACCINE MANUFACTURING AND FORMULATIONS ~71:Serum Institute of India Private Limited, 212/2, Off Soli Poonawalla Road, Hadapsar, PUNE 411 028, MAHARASHTRA, INDIA, India ~72: ASARAM, Pund Yogesh;DINESH, Mallya Asha;GOPAL, Pawar Rakesh;MADHUKARRAO, Gulhane Ashishkumar;VASUDEO, Bore Prashant;VITHOBA, Bhagade Sudhakar~ 33:IN ~31:202321046538 ~32:11/07/2023

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2024/05427 ~ Provisional ~54:BLOCKCHAIN-BASED INVOICE TOKENIZATION AND INTERNATIONAL INVESTMENT PLATFORM ~71:Hlanganiso Maluleke, Unit 3, Route 41 Complex, 1021 Anvil Street, South Africa ~72: Hlanganiso Maluleke~

2024/05393 ~ Complete ~54:METHOD FOR EXTRACTING, SEPARATING AND PURIFYING PROANTHOCYANIDINS FROM BLACK WOLFBERRY ~71:Huangshan University, No.39 Xihai Road, Tunxi District, Huangshan City, Anhui Province, People's Republic of China ~72: PAN Le;SHEN Biru;YANG Shuang;YANG Yujie;ZHANG Mingliang;ZHANG Yanfei~

2024/05396 ~ Complete ~54:SAMPLING DEVICE WITH LIMIT STRUCTURE FOR SOIL TESTING ~71:Hulunbuir Agricultural Reclamation Tenihe Agricultural Pasture Co., Ltd, Tenihe Town, Chenbalhu County, Hulunbuir City, Inner Mongolia Autonomous Region, 021024, People's Republic of China;Inner Mongolia Academy of Agricultural & Animal Husbandry sciences, No. 22, Zhaojun Road, Yuquan District, Hohhot City, Inner Mongolia Autonomous Region, 010031, People's Republic of China ~72: Chen Liyu;Cheng Yuchen;Liu Jiawei;Lu Zhanyuan;Pan Yong;Ren Yongfeng;Wang Jianguo;Wei Yulong;Yan Chunrui;Yan Wei;Zhang Dejian;Zhao Kun;Zhao Xiaoqing~

2024/05421 ~ Complete ~54:SYSTEM AND METHOD FOR ENERGY AND RESOURCE EXTRACTION WITH REDUCED EMISSIONS ~71:CGG SERVICES SAS, 27, Avenue Carnot, 91300, Massy, France ~72: ELISHA DRUMM;JUNIOR POTGIETER;MARIANE PETER-BORIE;MARK WILLIAMS;MAX NORMAN;ROBERT CROSSLEY~ 33:FR ~31:FR2308350 ~32:01/08/2023

2024/05401 ~ Complete ~54:NOVEL ANELLOVIRIDAE FAMILY VECTOR COMPOSITIONS AND METHODS ~71:FLAGSHIP PIONEERING INNOVATIONS V, INC., 55 Cambridge Parkway, 8th Floor, Suite 800E, United States of America ~72: ARZE, Cesar, A.;DELAGRAVE, Simon;HAJJAR, Roger, Joseph;NAWANDAR, Dhananjay

Maniklal;ONG, Tuyen;SWANSON, Lianna;YOZWIAK, Nathan, Lawrence~ 33:US ~31:63/320,515 ~32:16/03/2022;33:US ~31:PCT/US2022/077923 ~32:11/10/2022

2024/05425 ~ Complete ~54:AUTOMOTIVE SNORKEL INCORPORATING AN AIR FILTRATION SYSTEM ~71:WORK AIR TECHNOLOGIES PTY LTD, 9B Berriman Drive, Australia ~72: Gregory KNOWLES~ 33:AU ~31:2021904033 ~32:13/12/2021

2024/05398 ~ Complete ~54:RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING ~71:Beijing Dajia Internet Information Technology Co., Ltd, Room 101D1-7, 1st Floor, Building 1, No.6, Shangdi West Road, People's Republic of China ~72: CHEN, Wei;CHEN, Yi-Wen;JHU, Hong-Jheng;KUO, Che-Wei;WANG, Xianglin;XIU, Xiaoyu;YU, Bing~

2024/05417 ~ Complete ~54:INERTIAL NAVIGATION PRECISION EVALUATION SYSTEM AND EVALUATION METHOD FOR COAL MINING MACHINE, AND MOBILE CARRIER ~71:CHINA COAL TECHNOLOGY & ENGINEERING GROUP SHANGHAI CO., LTD., Block A, 18th Floor, Building 19, No. 1 Tianyaoqiao Road, People's Republic of China ~72: DAI, Jianping;FANG, Tong;LIU, Cong;LIU, Hongrui;QIU, Jinbo;ZHANG, Qizhi;ZHUANG, Deyu~ 33:CN ~31:202211336593.X ~32:28/10/2022

2024/05418 ~ Complete ~54:SYSTEM AND METHOD FOR EVALUATING INERTIAL NAVIGATION ACCURACY OF COAL MINING MACHINE, AND MOBILE CARRIER ~71:CHINA COAL TECHNOLOGY & ENGINEERING GROUP SHANGHAI CO., LTD., Block A, 18th Floor, Building 19, No. 1 Tianyaoqiao Road, People's Republic of China ~72: DAI, Jianping;FANG, Tong;LIU, Cong;LIU, Hongrui;QIU, Jinbo;ZHANG, Qizhi;ZHUANG, Deyu~ 33:CN ~31:202211339102.7 ~32:28/10/2022

2024/05394 ~ Complete ~54:APPLICATION OF METFORMIN IN THE PREPARATION OF PROMOTING THE SURVIVAL OF RANDOM FLAP ~71:The First Affiliated Hospital of Hainan Medical University, No.31 Longhua Road, Longhua District, Haikou City, Hainan Province, 570102, People's Republic of China ~72: Julan WU;Ruxin CHENG;Shaojiang ZHENG;Wenyan LU;Yan CHEN;Yonghao FAN;Zhang FENG;Zhenling WAN~

2024/05395 ~ Complete ~54:PROCESSING METHOD FOR MAKING FRUITY BLACK TEA FROM SUMMER AND AUTUMN TEA PICKED BY MACHINE ~71:Guangxi South Asian Tropical Agricultural Science Research Institute, Binqiao Township, Longzhou County, Chongzuo City, Guangxi Province, 532415, People's Republic of China ~72: Luo Lianfeng~

2024/05422 ~ Complete ~54:SYSTEMS AND METHODS FOR RETINAL STIMULATION AND/OR COLLECTING RETINAL SIGNAL DATA ~71:DIAMENTIS INC., 2875 boulevard Laurier, Suite D1-11, Tour 1, Québec, Québec, G1V 0B9, Canada ~72: CLAUDE HARITON~ 33:US ~31:63/308,169 ~32:09/02/2022

2024/05392 ~ Complete ~54:AQUACULTURE TAIL WATER TREATMENT DEVICE ~71:Yancheng Teachers University, 2 South Hope Avenue, Yancheng City, Jiangsu Province, 224007, People's Republic of China ~72: Fujun,XUAN~ 33:CN ~31:CN202410675518.9 ~32:29/05/2024

2024/05416 ~ Complete ~54:FUNGICIDAL MIXTURES COMPRISING COMBINATION CONTAINING PHTHALIMIDE FUNGICIDES ~71:Adama Makhteshim Ltd., P. O. BOX 60, BEER SHEVA 8410001, ISRAEL, Israel ~72: AVIDOR, Yoav;CERNUSCHI, Matteo;ROSENMUND, Alexandra~ 33:US ~31:63/298,886 ~32:12/01/2022

2024/05414 ~ Complete ~54:MHC 1B-MEDIATED ALPHA-SYNUCLEIN-SPECIFIC TOLERANCE INDUCTION AS A NOVEL TREATMENT FOR PARKINSON'S DISEASE ~71:Julius-Maximilians-Universität Würzburg, Sanderring 2, WÜRZBURG 97070, GERMANY, Germany ~72: BRUTTEL, Valentin;IP, Chi Wang;WISCHHUSEN, Jörg~ 33:EP ~31:22164123.6 ~32:24/03/2022

2024/05404 ~ Complete ~54:DIRECTIONAL AND TEMPORAL RELEASE OF DRUGS FROM MEDICAL DEVICE ~71:NANO THERAPEUTICS PRIVATE LIMITED, D-54/2, Road No. 23, Hojiwala Industrial Estate, Near Gate No. 3, Sachin Palsana Highway, Sachin Surat, Gujarat, India ~72: BHANDERI, Rohit;KHIRE, Achyut;VAHAB, Aleesha;VAISHNAV, Rajesh~ 33:IN ~31:202121029892 ~32:02/01/2022

2024/05408 ~ Complete ~54:TREPROSTINIL FOR THE TREATMENT OF PULMONARY HYPERTENSION ~71:INVOX BELGIUM NV, Agoralaan Building Abis, Belgium ~72: D'OREY MARCHAND SEQUEIRA LOPES BEIRÃO BELO, Isabel;RAWERT, Jürgen~ 33:EP ~31:22152809.4 ~32:21/01/2022

2024/05412 ~ Complete ~54:PROCESSES FOR THE PREPARATION OF SELECTIVE ESTROGEN RECEPTOR DEGRADERS ~71:Eli Lilly and Company, Lilly Corporate Center, INDIANAPOLIS 46285, IN, USA, United States of America ~72: ARGUELLES DELGADO, Alonso Jose;CZESKIS, Boris Arnoldovich;HAWK, Mai Khanh Nguyen;KJELL, Douglas Patton;LU, Yu;MAGNUS, Nicholas Andrew;REMICK, David Michael~ 33:US ~31:63/305,520 ~32:01/02/2022;33:US ~31:63/409,060 ~32:22/09/2022

2024/05419 ~ Complete ~54:AQUEOUS COATINGS MADE FROM POLYHYDROXYALKANOATE (PHA) CAKE ~71:DANIMER IPCO, LLC, 140 Industrial Boulevard Bainbridge, Georgia, 39817, United States of America ~72: JOE B GRUBBS III;KARSON DURIE;MICHAEL J JOYCE~ 33:US ~31:63/266,702 ~32:12/01/2022;33:US ~31:63/325,318 ~32:30/03/2022

2024/05402 ~ Complete ~54:CATALYST COMPOSITION AND METHOD FOR PRODUCING A CATALYST ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: BOLINGER, Cornelius Mark;GINESTRA, Josiane Marie-Rose;SLAUGH, Lynn Henry~

2024/05403 ~ Complete ~54:METHODS OF TREATING AL AMYLOIDOSIS ~71:PROTHENA BIOSCIENCES LIMITED, 77 Sir John Rogerson's Quay, Block C, Grand Canal Docklands, Ireland ~72: KARP, Carol;KINNEY, Gene;TRIPURANENI, Radhika;ZAGO, Wagner~ 33:US ~31:63/298,396 ~32:11/01/2022

2024/05409 ~ Complete ~54:TEMPORAL INITIALIZATION POINTS FOR CONTEXT-BASED ARITHMETIC CODING ~71:QUALCOMM Incorporated, ATTN: International IP Administration, 5775 Morehouse Drive, SAN DIEGO 92121-1714, CA, USA, United States of America ~72: KARCZEWICZ, Marta;SEREGIN, Vadim~ 33:US ~31:63/268,844 ~32:03/03/2022;33:US ~31:63/362,118 ~32:29/03/2022;33:US ~31:18/176,863 ~32:01/03/2023

2024/05415 ~ Complete ~54:MHC IB-MEDIATED AQUAPORIN 4 (AQP4)-SPECIFIC IMMUNOSUPPRESSION AS A NOVEL TREATMENT FOR NMO ~71:Julius-Maximilians-Universität Würzburg, Sanderring 2, WÜRZBURG 97070, GERMANY, Germany ~72: AHSAN, Fadhil;BRUTTEL, Valentin;JAYARAM, Shriya Mamatha;WISCHHUSEN, Jörg~ 33:EP ~31:22164161.6 ~32:24/03/2022

2024/05410 ~ Complete ~54:REDUCED HEIGHT MAIZE ~71:Inari Agriculture Technology, Inc., One Kendall Square, Building 600/700, Suite 7-501, CAMBRIDGE 02139, MA, USA, United States of America ~72: CLAEYS, Hannes Bart;VAN EX, Frédéric~ 33:US ~31:63/266,684 ~32:12/01/2022

2024/05423 ~ Complete ~54:LAUNDRY COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: GURPREET SINGH KOHLI;PANCHANAN BHUNIA;SAILEE SUNIL GUNDEWAR;SUBHAJIT MANNA;SUJITKUMAR SURESH HIBARE~ 33:EP ~31:22154013.1 ~32:28/01/2022

2024/05426 ~ Complete ~54:RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING ~71:Beijing Dajia Internet Information Technology Co., Ltd, Room 101D1-7, 1st Floor, Building 1, No.6, Shangdi West Road,

People's Republic of China ~72: CHEN, Wei;CHEN, Yi-Wen;JHU, Hong-Jheng;KUO, Che-Wei;WANG, Xianglin;XIU, Xiaoyu;YU, Bing~

2024/05400 ~ Complete ~54:NON-ELECTROMECHANICAL, PUMPLESS LIQUID RECIRCULATION SYSTEM FOR AIR-COOLED CONDENSER AND COOLER ADIABATIC PRE-COOLING SYSTEM ~71:EVAPCO, INC., 5151 Allendale Lane, Taneytown, Maryland, 21787, United States of America ~72: GOPALAN, Shridhar;STRUDER, Gordon~ 33:US ~31:63/291,101 ~32:17/12/2021;33:US ~31:18/068,238 ~32:19/12/2022

2024/05405 ~ Complete ~54:CONVEYANCE APPARATUS ~71:SHECHTER, Adar, 413 Shechter, Israel ~72: SHECHTER, Adar~ 33:US ~31:63/289,679 ~32:15/12/2021;33:WO ~31:PCT/IB2022/061933 ~32:08/12/2022

2024/05420 ~ Complete ~54:VIAL ADAPTER ASSEMBLY ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: BRYAN GRYGUS;DANIEL HALBIG;ERIC HOUDE;PAIGE WAECHTER;PARKER VALDEZ;PRITHVI SINGH;SANDY SPENCER;SINDHUJA KUCHIBHATLA;TREVOR LANGLEY~ 33:US ~31:63/300,554 ~32:18/01/2022

2024/05391 ~ Provisional ~54:METHOD WITHIN A PROCESS OF INTEGRATING A STORE TO AN EXTERNAL SURFACE OF AN AIRCRAFT ~71:CSIR, CSIR Campus, Meiring Naude Road, Brummeria 0184, SOUTH AFRICA, South Africa ~72: HASELUM, Steven Frank;JAMISON, Kevin Andrew;SKINNER, Peter;TULING, Sean;ZWANE, Lindokuhle~

2024/05407 ~ Complete ~54:IL-18BP ANTAGONIST ANTIBODIES AND THEIR USE IN MONOTHERAPY AND COMBINATION THERAPY IN THE TREATMENT OF CANCER ~71:COMPUGEN LTD., 26 Harokmim Street, Israel ~72: ALTEBER, ZOYA;BLAT, DAN;CHIASSON, ALISSA, M.;COHEN, NADAV;ERLICH, ZIV;FRIDMAN-KFIR, TAL;GALPERIN, MORAN;LEIDERMAN, OLGA;MENACHEM, ASSAF;NIELSON, NELS, P.;NOVIK, AMIT;OPHIR, ERAN;PERPINIAL, MICHAL;SEVER, IITAL;TATIROVSKY, EVGENY;TILLEMAN, HADAS, GALON;TOPORIK, AMIR~ 33:US ~31:63/320,202 ~32:15/03/2022;33:US ~31:63/351,242 ~32:10/06/2022;33:US ~31:63/478,898 ~32:06/01/2023

2024/05411 ~ Complete ~54:ECTONUCLEOTIDE PYROPHOSPHATASE-PHOSPHODIESTERASE 1 (ENPP1) INHIBITORS AND USES THEREOF ~71:Insilico Medicine IP Limited, 26th Floor, Three Exchange Square, 8 Connaught Place Central, HONG KONG, CHINA (P.R.C.), People's Republic of China ~72: CHENG, Xin;LIU, Yingtao;QIN, Luoheng;REN, Feng;YU, Huaxing~ 33:IB ~31:2022/074739 ~32:28/01/2022;33:IB ~31:2022/140318 ~32:20/12/2022

2024/05399 ~ Complete ~54:RESIDUAL AND COEFFICIENTS CODING FOR VIDEO CODING ~71:Beijing Dajia Internet Information Technology Co., Ltd, Room 101D1-7, 1st Floor, Building 1, No.6, Shangdi West Road, People's Republic of China ~72: CHEN, Wei;CHEN, Yi-Wen;JHU, Hong-Jheng;KUO, Che-Wei;WANG, Xianglin;XIU, Xiaoyu;YU, Bing~

2024/05397 ~ Complete ~54:CONTACT LENS COMPRISING A LENTICULAR IN A SUPERIOR PORTION OF THE CONTACT LENS ~71:OHIO STATE INNOVATION FOUNDATION, 1524 North High Street, Columbus, Ohio, 43201, United States of America ~72: JOSEPH T BARR;MELISSA D BAILEY~ 33:US ~31:15/274,159 ~32:23/09/2016

2024/05406 ~ Complete ~54:COMPUTER NETWORK FOR LOCATION AND DATA TRANSFER ~71:GEOMOBY PTY LTD, Unit 3, 26-30 Edgehill Street, Australia ~72: BAUDIA, Christophe~ 33:AU ~31:2021904093 ~32:16/12/2021

2024/05413 ~ Complete ~54:ANTI-ALPHA-SYNUCLEIN THERAPEUTIC VACCINES ~71:AC Immune SA, EPFL Innovation Park, Building B, LAUSANNE 1015, SWITZERLAND, Switzerland ~72: AYER, Maxime;PFEIFER, Andrea~ 33:EP ~31:22156006.3 ~32:09/02/2022;33:EP ~31:22156007.1 ~32:09/02/2022

2024/05424 ~ Complete ~54:MORPHIC FORMS OF CFT7455 AND METHODS OF MANUFACTURE THEREOF ~71:C4 THERAPEUTICS, INC., 490 Arsenal Way, Suite 120, Watertown, Massachusetts, 02472, United States of America ~72: BING HU;DANMEI DAI;HE LI;JAMES A HENDERSON;JUANJUAN SHI;MAN DING;MATTHEW J SCHNADERBECK;MEIQI LI;MINSHENG HE;SIYI JIANG;YU ZHANG~ 33:CN ~31:202210119643.2 ~32:09/02/2022;33:US ~31:63/308,883 ~32:10/02/2022;33:US ~31:63/328,659 ~32:07/04/2022;33:US ~31:63/437,718 ~32:08/01/2023

. - APPLIED ON 2024/07/12 -

2024/05460 ~ Complete ~54:HAIR STYLING DEVICE ~71:JEMELLA LIMITED, 82 Dean Street, London, W1D 3SP, United Kingdom ~72: ALASTAIR HOATH;GRAHAM COOK;NICHOLAS ASHBY;SUDEEP GURUNG~ 33:GB ~31:2200426.1 ~32:13/01/2022

2024/05464 ~ Complete ~54:WIG STORAGE DEVICE ~71:SHAOYANG YIMEI TECHNOLOGY CO., LTD., Xiangshang Industrial Park, Industrial Concentration Zone, Shaoyang County, Shaoyang City, People's Republic of China ~72: HE, Hongwei;LI, Genyang;LI, Shuyang~

2024/05444 ~ Complete ~54:WEAR SENSOR ~71:K F GROUP PTY LTD, 3/45 Royal St, East Perth,, Australia ~72: KAMARAS, Con~ 33:AU ~31:2021904075 ~32:15/12/2021

2024/05446 ~ Complete ~54:FENCLORIM SEED TREATMENT AS A BIOSTIMULANT ~71:THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS, 2404 North University Avenue Little Rock, AR 72207, United States of America ~72: NORSWORTHY, Jason, K.~ 33:US ~31:63/297,993 ~32:10/01/2022

2024/05447 ~ Complete ~54:PROANGIOGENIC GROWTH FACTOR-BINDING POLYPEPTIDES ~71:Centro de Ingeniería Genética y Biotecnología, Avenida 31 No. 15802, entre 158 y 190, Cubanacán, Playa, LA HABANA 11600, CUBA, Cuba ~72: AYALA ÁVILA, Marta;BEQUET ROMERO, Mónica;CANAÁN-HADEN AYALA, Camila;GAVILONDO COWLEY (Deceased), Jorge Victor;GONZÁLEZ BLANCO, Sonia;GONZÁLEZ MOYA, Isabel;LAMDAN ORDÁS, Humberto;MORERA DÍAZ, Yanelys;MUÑOZ POZO, Yasmiana~ 33:CU ~31:2021-0101 ~32:15/12/2021

2024/05432 ~ Complete ~54:CORROSION PROTECTION OF NEGATIVE ELECTRODE OF LEAD-ACID BATTERY BY NATURAL POLYSACCHARIDE COMPOSITE ~71:Nagaland University, Nagaland University, Lumami Headquarters, Zunheboto, Nagaland, 798627, India ~72: Asst Prof. Ashutosh Tripathi;Dr. Ambrish Singh;Dr. Yuanhua Lin (Southwest Petroleum University);Kashif Rahmani Ansari (Southwest Petroleum University);Mrs. Shivani Singh (Lovely Professional University);Prof. Ashutosh Tripathi~ 33:IN ~31:202431027326 ~32:02/04/2024

2024/05439 ~ Complete ~54:RPA AMPLIFICATION PRIMER SET USED FOR DETECTING GENE MTHFR POLYMORPHISM AND ITS APPLICATIONS ~71:HANSHAN NORMAL UNIVERSITY, Science Building, Hanshan Normal University, Qiaodong Xiangqiao District, Chaozhou City, People's Republic of China ~72: CHEN, Lianghui;CHEN, Yicun;HAN, Jinkun;HUANG, Yongping;LIN, Min;LIU, Yaqun;SUN, Yanjie;WANG, Jialin;XIE, Chengsong;ZHANG, Kang;ZHANG, Zhenxia;ZHENG, Yuzhong~ 33:CN ~31:2024103163019 ~32:19/03/2024

2024/05448 ~ Complete ~54:BINDING MOLECULES AGAINST FRA ~71:AstraZeneca AB, SE-151 85 Södertälje, SWEDEN, Sweden ~72: DODD, Roger;FRAENKEL, Paula;NEAL, Frances;PATEL, Neki;WARD, Christopher;ZERON-MEDINA CUAIRAN, Jorge~ 33:US ~31:63/269,068 ~32:09/03/2022

2024/05451 ~ Complete ~54:ENCODING CONFIGURATION METHOD AND APPARATUS ~71:Huawei Technologies Co., Ltd., Huawei Administration Building, Bantian, Longgang District, SHENZHEN 518129, GUANGDONG, CHINA (P.R.C.), People's Republic of China ~72: LUO, Chengxian;WU, Xuming~ 33:CN ~31:202210015997.2 ~32:07/01/2022

2024/05440 ~ Complete ~54:RPA-PFAGO SYSTEM FOR IDENTIFYING GOOSE PARVOVIRUS AND ITS APPLICATIONS ~71:HANSHAN NORMAL UNIVERSITY, Science Building, Hanshan Normal University, Qiaodong Xiangqiao District, Chaozhou City, People's Republic of China ~72: CHEN, Lianghui;CHEN, Yicun;HAN, Jinkun;HUANG, Yongping;LIN, Min;LIU, Yaqun;SUN, Yanjie;WANG, Jialin;XIE, Chengsong;ZHANG, Zhenxia;ZHENG, Yuzhong~ 33:CN ~31:2024106386466 ~32:21/05/2024

2024/05442 ~ Complete ~54:TELESCOPIC SLEEVE OF LOADING AND UNLOADING MACHINE AND METHOD FOR MACHINING SAME ~71:XI'AN NUCLEAR EQUIPMENT CO., LTD, No. 5 Weibin Street, Xujiawan, People's Republic of China ~72: LI, Jun;NING, Xiaoliang;YIN, Dongdong~ 33:CN ~31:202310860642.8 ~32:14/07/2023

2024/05428 ~ Complete ~54:GENETICALLY MODIFIED T CELL RECEPTOR MICE ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, United States of America ~72: GURER, Cagan;MACDONALD, Lynn;MCWHIRTER, John;MEAGHER, Karolina;MURPHY, Andrew, J.;STEVENS, Sean;TU, Naxin;VORONINA, Vera~ 33:US ~31:61/552,582 ~32:28/10/2011;33:US ~31:61/621,198 ~32:06/04/2012;33:US ~31:61/700,908 ~32:14/09/2012

2024/05433 ~ Complete ~54:BILOBA EXTRACT AS A GREEN CORROSION INHIBITOR FOR PREVENTING STEEL BAR CORROSION IN CONCRETE PORE SOLUTION ~71:Nagaland University, Nagaland University, Lumami Headquarters, Zunheboto, Nagaland, 798627, India ~72: Asst. Professor Ashutosh Tripathi;Dr. Ambrish Singh;Dr. Yuanhua Lin (Southwest Petroleum University);Joginder Singh Panwar;Kashif Rahmani Ansari (Southwest Petroleum University,);Mrs. Shivani Singh (Lovely Professional University);Prof Ashutosh tripathi;Yin Caihong (Department of Materials Engineering, Sichuan Polytechnic University)~ 33:IN ~31:202431029656 ~32:12/04/2024

2024/05452 ~ Complete ~54:SECRETORY IGA-BIOTIC COMPLEXES AND USES THEREOF ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: BOURDEAU, Tristan;FORBES-BLOM, Elizabeth;LUKJANENKO, Laura;NOTI, Mario;VIDAL, Karine~ 33:EP ~31:21215986.7 ~32:20/12/2021

2024/05435 ~ Complete ~54:MULTI-DEVICE INTERFACED SMART COMPUTING SYSTEM ~71:Dr. Bindu Kumar Karthikeyan, Professor, Department of Mechanical Engineering, Government Engineering College, Barton Hill, Thiruvananthapuram, Kerala, 695035, India;Dr. Kaippilly Raman Remesh Babu, Professor, Department of Information Technology, Government Engineering College, Idukki, Kerala, 685603, India;Dr. Sangeetha Unnikrishnan, Associate Professor, Department of Information Technology, Government Engineering College, Palakkad, Kerala, 678633, India;Indulal Sreedharan, S/o. Sreedharan K., Deputy Director (P & T), Directorate of Technical Education, Thiruvananthapuram, Kerala, 695023, India;Raji Sasidharan Pillai, Assistant Professor, Department of Computer Applications, St. Teresa’s College, Park Avenue, Marine Drive, Ernakulum, Kerala, 682011, India ~72: Dr. Bindu Kumar Karthikeyan;Dr. Kaippilly Raman Remesh Babu;Dr. Sangeetha Unnikrishnan;Indulal Sreedharan;Raji Sasidharan Pillai~

2024/05445 ~ Complete ~54:WEAR SENSOR ~71:K F GROUP PTY LTD, 3/45 Royal St, East Perth,, Australia ~72: KAMARAS, Con~ 33:AU ~31:2021904076 ~32:15/12/2021

2024/05462 ~ Complete ~54:CONTROL METHOD AND CONTROL APPARATUS FOR VOLTAGE-SOURCE-TYPE WIND TURBINE GENERATOR SYSTEM ~71:GOLDWIND SCIENCE & TECHNOLOGY CO., LTD., No.

107 Shanghai Road, Economic & Technological Development Zone, Urumqi, Xinjiang, 830026, People's Republic of China ~72: CHUANG LIU;RUI GUO;XIAO YU~ 33:CN ~31:202111535560.3 ~32:15/12/2021

2024/05458 ~ Complete ~54:A PROCESS FOR CONVERSION OF AQUEOUS HYDROGEN SULFIDE TO SULFURIC ACID ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: MICHAEL THOMAS SYLVEST-JOHANSEN;MORTEN THELLEFSEN;SAMUEL WIKTOR SCHERMAN JOHANSSON~ 33:DK ~31:PA202200144 ~32:22/02/2022

2024/05463 ~ Complete ~54:PLATE WITH OPENING AID FOR CANS ~71:PETER BURGSTALLER, Hinzenbach 20, 4070, Eferding, Austria ~72: PETER BURGSTALLER~ 33:AT ~31:A 60309/2021 ~32:14/12/2021

2024/05466 ~ Complete ~54:WIG HAIR TRANSPLANTATION DEVICE AND HAIR TRANSPLANTATION METHOD ~71:SHAOYANG RUIXIANG HAIR PRODUCTS CO., LTD., Building 18, Standard Factory Building, Centralized Zone, Industrial Park, Shaoyang County, Shaoyang City, People's Republic of China ~72: LI, Xiaojun;WANG, Shaolin~

2024/05441 ~ Complete ~54:CORROSION-RESISTANT SURFACING LAYER FOR INNER WALL OF NUCLEAR POWER PRESSURE VESSEL AND PREPARATION METHOD THEREFOR ~71:XI'AN NUCLEAR EQUIPMENT CO., LTD, No. 5 Weibin Street, Xujiawan, People's Republic of China ~72: DING, Zhengbiao;JIA, Weiwei;LI, Junye;LIU, Xiaohu;MA, Yongqian;QIN, Wei;SHAN, Jiwen;WANG, Jiantao;WU, Lintao;XIA, Zhixin~ 33:CN ~31:202311835215.0 ~32:28/12/2023

2024/05431 ~ Complete ~54:IMIDAZOLE DERIVATIVE AS A NOVEL CORROSION INHIBITOR FOR Q235 STEEL AND PROCESS THEREOF ~71:Nagaland University, Nagaland University, Lumami Headquarters, Zunheboto, Nagaland, 798627, India ~72: Asst Prof. Ashutosh Tripathi;Dr. Ambrish Singh;Dr. Yuanhau Lin (Southwest Petroleum University);Kashif Rahmani Ansari (Southwest Petroleum University);Mrs. Shivani Singh (Lovely Professional University);Prof. Ashutosh Tripathi~ 33:IN ~31:202431027324 ~32:02/04/2024

2024/05437 ~ Complete ~54:SAFETY SYSTEM FOR WORKING MACHINE ~71:MANITOU ITALIA S.R.L., Via Cristoforo Colombo 2, Castelfranco Emilia (Modena), 41013, Italy ~72: MARCO IOTTI~ 33:IT ~31:102023000015345 ~32:21/07/2023

2024/05450 ~ Complete ~54:PLASTER BOARDS AND METHODS FOR MAKING THEM ~71:Saint-Gobain Placo, Tour Saint-Gobain, 12 Place de l'Iris, COURBEVOIE 92400, FRANCE, France ~72: BRADLEY, Mark;FEY, Karen;GHOSH, Anirban;JONES, Roger;LEEDY, James;OVERTON, John;THOMAS, Arun~ 33:US ~31:63/294,616 ~32:29/12/2021

2024/05438 ~ Complete ~54:TRACKING SYSTEM AND METHOD ~71:ECONO ENERGY SOLUTIONS (PTY) LTD, Erf 261 Voortrekker Road, Monument, South Africa ~72: JANSE VAN RENSBURG, Pieter Johannes~ 33:ZA ~31:2023/07123 ~32:17/07/2023

2024/05461 ~ Complete ~54:IMPROVED METHOD AND SYSTEM FOR RECLAIMING THE INDIVIDUAL COMPONENTS OF A SYNTHETIC OR ARTIFICIAL TURF PRODUCT ~71:RE-MATCH HOLDING A/S, HI-Park 415, Hammerum, 7400, Herning, Denmark ~72: MARTIN WELLING;RASMUS D. DAMHUS~ 33:EP ~31:22150418.6 ~32:06/01/2022

2024/05443 ~ Complete ~54:ISOMERIZATION AND DISPROPORTIONATION CATALYST COMPOSITION ~71:SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., Carel van Bylandtlaan 30, HR The Hague, Netherlands ~72: GINESTRA, Josiane Marie-Rose;GRISAFE, David;HAMILTON, JR., David Morris;HUANG, Ke-Wei;KOMPLIN, Glenn Charles;WORSTELL, Jonathan Harlan~

2024/05434 ~ Complete ~54:ARRANGEMENT FOR FEEDING AMMUNITION TO A WEAPON ~71:BAE Systems Hägglunds Aktiebolag, ÖRNSKÖLDSVIK 891 82, SWEDEN, Sweden ~72: ERIKSSON, Claes~ 33:SE ~31:1951170-8 ~32:15/10/2019

2024/05436 ~ Complete ~54:SAFETY SYSTEM FOR WORKING MACHINE ~71:MANITOU ITALIA S.R.L., Via Cristoforo Colombo 2, Castelfranco Emilia (Modena), 41013, Italy ~72: MARCO IOTTI~ 33:IT ~31:102023000015342 ~32:21/07/2023

2024/05453 ~ Complete ~54:IMPROVEMENTS IN OR RELATING TO ORGANIC COMPOUNDS ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: BROOKS, Matthew Peter~ 33:GB ~31:2118166.4 ~32:15/12/2021

2024/05449 ~ Complete ~54:ANTI-IL13RA2 ANTIBODIES AND USES THEREOF ~71:Phanes Therapeutics, Inc., 11535 Sorrento Valley Road, Suite 400, SAN DIEGO 92121, CA, USA, United States of America ~72: JIA, Haiqun;WU, Huiwen;ZOU, Hui~ 33:US ~31:63/267,681 ~32:08/02/2022

2024/05454 ~ Complete ~54:USE OF ISOXAZOLINECARBOXAMIDE FOR SPROUT INHIBITION ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: DECKWER, Roland;EBBINGHAUS, Dirk;HAAS, Matthias;KÜHNHOLD, Volker;LORENTZ, Lothar;NUTTELMANN, Klaus;SMIT, Thomas Alexander Maria;TOSSENS, Herve~ 33:EP ~31:21214606.2 ~32:15/12/2021

2024/05457 ~ Complete ~54:METHOD FOR THE PRODUCTION OF A GLASS-METAL ATTACHMENT ~71:RIOGLASS SOLAR SCH, SL, PAMA - Parque de Actividades Mediambientales de Andalucia Carretera Aznalcollar - Gerena km 1 41870 Aznalcollar, Sevilla, Spain ~72: FÉLIX AINZ IBARRONDO~ 33:EP ~31:22382076.2 ~32:31/01/2022

2024/05465 ~ Complete ~54:WIG COMBING DEVICE ~71:SHAOYANG ZHITAI HAIR PRODUCTS CO., LTD., Miaoyuan Village, Tangdukou Town, Shaoyang County, Shaoyang City, People's Republic of China ~72: GONG, Jianping;HUANG, Gengjun;PENG, Yu;WANG, Xiaojun~

2024/05456 ~ Complete ~54:MODIFIED GLUTAMATE DEHYDROGENASE AND APPLICATION THEREOF ~71:HUNAN LIER BIOTECH CO., LTD., No. 10 Shan Yan Road, Jia Shan Street Jinshi, Hunan, 415400, People's Republic of China ~72: JUNYING FAN;WEI XU;XINKAI XIE~ 33:CN ~31:202111670071.9 ~32:31/12/2021

2024/05459 ~ Complete ~54:VECTOR CONSTRUCTS FOR DELIVERY OF NUCLEIC ACIDS ENCODING THERAPEUTIC ANTI-IGF-1R ANTIBODIES AND METHODS OF USING THE SAME ~71:KRIYA THERAPEUTICS, INC., 4105 Hopson Rd., Morrisville, North Carolina, 27560, United States of America ~72: DIANA CEPEDA;MICHELE STONE;NACHIKETA GUPTA;RUTH CASTELLANOS;THERESA HEAH;WEIRAN SHEN~ 33:US ~31:63/297,787 ~32:09/01/2022;33:US ~31:63/374,878 ~32:07/09/2022

2024/05455 ~ Complete ~54:TRANSPORTATION MANAGEMENT SYSTEM AND METHOD ~71:THABISO CYRUS MOLOKO, 12 Lincoln Estates, Lincoln Avenue, New Market, Alberton, 1448, South Africa ~72: THABISO CYRUS MOLOKO~ 33:ZA ~31:2021/06785 ~32:14/09/2021

2024/05430 ~ Complete ~54:SPLIT TYPE ULTRASONIC KNIFE HANDLE, ULTRASONIC MACHINING SYSTEM, AND WORKING METHOD ~71:INTELLIGENT MANUFACTURING LONGCHENG LABORATORY, Jiangnan Research Institute of Modern Industry, Changzhou Science and Education City, No. 18 Changwu Middle Road, Wujin District, Changzhou, Jiangsu, 213159, People's Republic of China;Jiangsu Branch of China Academy of Machinery Science and Technology Group Co., Ltd., 1st Floor, Block C, Tianhong Technology Building, Changzhou Science and Education City, No. 801 Changwu Middle Road, Wujin District, Changzhou,

Jiangsu, 213000, People's Republic of China ~72: SHAN, Zhongde;WANG, Xiang;ZHANG, Yundian;ZHU, Zhuozhi;ZHUANG, Bailiang~ 33:CN ~31:202311236849.4 ~32:25/09/2023

2024/05467 ~ Complete ~54:POOL TABLE CAPABLE OF AVOIDING BALL BOUNCE ~71:QIAO, Yuanxu, Building D26, Hongyu Villa, Beidaihe District, Qinhuangdao, People's Republic of China ~72: QIAO, Yuanxu~ 33:CN ~31:202111542227.5 ~32:16/12/2021

2024/05468 ~ Provisional ~54:ROLLING HAIR CLIPPER GUARD ~71:BULELANI MAYEKISO, 16 CORONATION RD, SUNNYRIDGE, South Africa ~72: BULELANI MAYEKISO ~

2024/05429 ~ Complete ~54:MESH PLATE FORMING DIE ~71:Suzhou Vocational University, Suzhou Vocational University, 106 Zhineng Avenue, International Education Park, Suzhou City, Jiangsu Province, 215104, People's Republic of China ~72: CHEN, Qi;LIU, Xin;MAO, Xiangwen;WANG, Aixia;ZHANG, Liang~ 33:CN ~31:202410706377.2 ~32:03/06/2024

. - APPLIED ON 2024/07/15 -

2024/05477 ~ Complete ~54:POSITIONING AND DISTANCE MEASURING DEVICE FOR ENVIRONMENTAL ART DESIGN ~71:Ningde Vocational and Technical College, No.232 Futai Road, Chengbei, Fu'an City, Ningde City, Fujian Province, People's Republic of China ~72: Jun Liu~

2024/05481 ~ Complete ~54:FLEXIBLE HINGE PLATE FOR SKULL RECONSTRUCTION ~71:ROACH, RICHARD WAYNE, 2131 Mirabel Crescent, South Africa ~72: ROACH, RICHARD WAYNE~

2024/05495 ~ Complete ~54:WOUND DRESSING ~71:Essity Hygiene and Health Aktiebolag, GÖTEBORG 405 03, SWEDEN, Sweden ~72: SZYMANSKI, Kolja~

2024/05475 ~ Complete ~54:A HIGHLY SIZE ADAPTIVE STIRRING MILL ~71:China National Building Material Group CO., Ltd., Building 2, Guohai Plaza, No. 17 Fuxing Road, Haidian District, Beijing, People's Republic of China;TIANJIN CEMENT INDUSTRY DESIGN & RESEARCH INSTITUTE CO., LTD, No.1, Yin HeLi Road (North), Bei Chen District, Tianjin, 300400, People's Republic of China ~72: Chang Liu;Di Liu;Lingyun Peng;Wenhai Nie;Xin Du~ 33:CN ~31:202311192691.5 ~32:14/09/2023

2024/05479 ~ Complete ~54:METHOD OF CONNECTING PREFABRICATED SUBWAY STATION COMPONENTS ~71:China Construction Fifth Engineering Division Corp., Ltd., No. 158 Zhongyi 1st Road, Yuhua District, Changsha City, Hunan, 410011, People's Republic of China;China Construction Qingdao Investment and Construction Co., Ltd., 51st Floor, Block A, Huarun Building, No. 6 Shandong Road, Shinan District, Qingdao City, Shandong Province, 266071, People's Republic of China;Qingdao University of Technology, No. 777 Jialingjiang East Road, Huangdao District, Qingdao City, Shandong, 266520, People's Republic of China;Xinjiang University, No. 666 Shengli Road, Tianshan District, Urumqi City, Xinjiang Uygur Autonomous Region, 830046, People's Republic of China ~72: BO, Yinqiu;CHEN, Guokang;CHEN, Xi;HE, Laisheng;LI, Xiaozhong;LI, Yufeng;LIU, Chengzhi;LU, Guohong;QIN, Yongjun;WANG, Guangqun;WU, Gaoming;XIONG, Licai;YIN, Hengqi;YU, Dian;YU, Guangming;ZHANG, Tongzeng;ZHANG, Yanping~

2024/05485 ~ Complete ~54:SOLID ORAL DOSAGE FORMS OF RABEPRAZOLE ~71:Dr. Reddys Laboratories Limited, 8-2-337, Road No. 3, Banjara Hills, India ~72: CHAUDHARI, Sangmesh Mallikarjun;CHOUDHURY, Anup Avijit;KHAN, Gayasuddin;SINGH, Sanjay Kuma;V, Hariharan~ 33:IN ~31:202141060162 ~32:23/12/2021

2024/05489 ~ Complete ~54:BEVERAGE POD SYSTEM WITH IMPROVED SEAL ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: KOLLEP, Alexandre;VUAGNIAUX, Didier~ 33:EP ~31:21216610.2 ~32:21/12/2021

2024/05499 ~ Complete ~54:LIGHTNING PROTECTION DEVICE FOR WIND TURBINE BLADES AND MOUNTING METHOD THEREFOR ~71:ENVISION ENERGY CO., LTD, No.3 Shenzhuang Road, Shengang Street, Jiangyin Wuxi, Jiangsu, 214443, People's Republic of China ~72: HAO MA;JIANXU SUN;JIAYAN BIAN;SHICHANG GONG;ZHENHUA DONG~

2024/05506 ~ Provisional ~54:INNOVATIVE SYSTEM AND METHOD FOR REAL-TIME GROCERY PRICE COMPARISON FROM DIFFERENT RETAIL STORES INSTANTLY IN ONE VIEW USING AI FUNCTIONALITY, PERSONALIZED BUDGET MANAGEMENT, SHARING OF RECIPIES AND INTEGRATED SHOPPING ASSISTANCE. ~71:Sihle Hastings Khanyeza, C402 California road, Ntuzuma, South Africa ~72: Sihle Hastings Khanyeza~

2024/05470 ~ Provisional ~54:FIBER OPTIC POSITIONING SYSTEM ~71:Positionxt (Pty) Ltd., 10 Mont Saint Michel, South Africa ~72: VELDSMAN, Andre~

2024/05472 ~ Provisional ~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~

2024/05484 ~ Complete ~54:A MECHANICAL POLYOLEFIN RECYCLING PROCESS ~71:BOREALIS AG, Trabrennstrasse 6-8, Vienna, Austria ~72: DENIFL, Peter;GOETZLOFF, Christian;HETTRICH-KELLER, Michael;LAMBERTZ, Oliver;MACHL, Doris;PIETTRE, Kilian;PRIESTERS, Hans-Jürgen;VIJAY, Sameer~ 33:EP ~31:21216996.5 ~32:22/12/2021

2024/05476 ~ Complete ~54:A HIGH-EFFICIENCY LOW-RESISTANCE COARSE-FINE GRADIENT CLASSIFYING SEPARATOR AND ITS CLASSIFYING AND DESIGN METHOD ~71:China National Building Material Group CO., Ltd., Building 2, Guohai Plaza, No. 17 Fuxing Road, Haidian District, Beijing, People's Republic of China;TIANJIN CEMENT INDUSTRY DESIGN & RESEARCH INSTITUTE CO., LTD, No.1, Yin HeLi Road (North), Bei Chen District, Tianjin, 300400, People's Republic of China ~72: Haijian Dou;Mingzhe Li;Weili Wang;Zhitao Liu;Zhonghua Qin~ 33:CN ~31:202311022734.5 ~32:14/08/2023

2024/05493 ~ Complete ~54:NUCLEOSIDE FORMULATION ~71:pHion Therapeutics Ltd, 63 University Road Research And Enterprise, BELFAST BT7 1NF, UNITED KINGDOM, United Kingdom ~72: BENNIE, Lindsey Ann;CHAMBERS, Philip;MCCARTHY, Helen~ 33:GB ~31:2118225.8 ~32:16/12/2021

2024/05502 ~ Complete ~54:ALUMINUM ALLOY FLUOROCARBON SPRAYING APPARATUS AND PROCESS ~71:ANHUI BLUE FLAG ALUMINUM CO. , LTD, Suiwu Modern Industrial Park, South Of Wisteria Lane, Suixi County, Huaibei, People's Republic of China ~72: Du Lidong;Liu Lou;Lu Kai;Song Yangyang~ 33:CN ~31:202210669232.0 ~32:14/06/2022

2024/05471 ~ Provisional ~54:A PUMPING SYSTEM ~71:K2014013441 (Pty) Ltd T/A NM Properties, 10 Elsenbroek Street, POTCHEFSTROOM 2531, SOUTH AFRICA, South Africa ~72: VAN JAARSVELD, Maarten Jacobus~

2024/05480 ~ Complete ~54:A DEVICE FOR ENGINEERING SURVEYING AND MAPPING ~71:Chuzhou University, No.1 Huifeng West Road, Nanqiao District, Chuzhou City, Anhui Province, People's Republic of China ~72: Deng Yuechuan;Qian Ruyou~

2024/05483 ~ Complete ~54:CHITOSAN ADSORPTION MATERIAL AND PREPARATION METHOD THEREOF ~71:Chuzhou University, No. 1, West Huifeng Road, Chuzhou City, Anhui Province, 239000, People's Republic of China ~72: Cheng Yuan;Lu Ziyang;Yang Miaomiao~

2024/05488 ~ Complete ~54:CRYSTALLINE INTERMEDIATES ~71:QBIOTICS PTY LTD, SUITE 3A, LEVEL 1, 165 MOGGILL ROAD, TARINGA, QUEENSLAND 4068, AUSTRALIA, Australia ~72: DOMENIGHINI, Luca;FUMAGALLI, Lorena;GAMBINI, Andrea;SARDONE, Nicola~ 33:AU ~31:2021904153 ~32:21/12/2021

2024/05497 ~ Complete ~54:TSP1 INHIBITOR ~71:DAIICHI SANKYO COMPANY, LIMITED, 3-5-1, Nihonbashi Honcho, Chuo-ku, Tokyo, 1038426, Japan;PEPTIDREAM INC., 3-25-23, Tonomachi, Kawasaki-ku, Kawasaki-shi, Kanagawa, 2100821, Japan ~72: AKIHIRO FURUKAWA;HIRONAO SAITO;KAGAYAKI NOGAMI;TAKAHIRO YAMAGUCHI;YUTAKA ISHIGAI~ 33:JP ~31:2022-005132 ~32:17/01/2022

2024/05478 ~ Complete ~54:COMBINED SUPPORT SYSTEM OF PREFABRICATED SUBWAY STATION UNDER CONDITION OF REPEATED HEAVY LOAD ~71:China Construction Fifth Engineering Division Corp., Ltd., No. 158 Zhongyi 1st Road, Yuhua District, Changsha City, Hunan, 410011, People's Republic of China;China Construction Qingdao Investment and Construction Co., Ltd., 51st Floor, Block A, Huarun Building, No. 6 Shandong Road, Shinan District, Qingdao City, Shandong Province, 266071, People's Republic of China;Qingdao University of Technology, No. 777 Jialingjiang East Road, Huangdao District, Qingdao City, Shandong, 266520, People's Republic of China;Xinjiang University, No. 666 Shengli Road, Tianshan District, Urumqi City, Xinjiang Uygur Autonomous Region, 830046, People's Republic of China ~72: BAI, Liyang;CHEN, Guokang;CHEN, Xi;GONG, Zhengjun;HE, Laisheng;LEI, Jun;LI, Yufeng;LU, Guohong;PU, Wanxu;QIN, Yongjun;WANG, Guangqun;WANG, Yudong;XIONG, Licai;YU, Guangming;ZHANG, Tongzeng;ZHANG, Yanping~

2024/05491 ~ Complete ~54:BEVERAGE POD SYSTEM WITH POD CATCHER ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: EISENBART, Alex;KOLLEP, Alexandre;VUAGNIAUX, Didier;ZÜRCHER, Reto Markus~ 33:EP ~31:21216616.9 ~32:21/12/2021

2024/05498 ~ Complete ~54:METHOD AND SYSTEM FOR BENEFICIATION ~71:EESTECH EUROPE HOLDINGS BV, Kingsfordweg 151, 1043 GR, Amsterdam, Netherlands;EESTECH INC, 16192 Coastal Highway Lewes, Delaware 19958, United States of America ~72: CHAD DANIEL LEHMAN;MURRAY JAMES BAILEY~ 33:GB ~31:2118460.1 ~32:17/12/2021

2024/05500 ~ Complete ~54:WHOLE CANE HARVESTING EQUIPMENT AND RELATED DEVICES ~71:MARCHESAN IMPLEMENTOS E MÁQUINAS AGRÍCOLAS TATÚ S/A, Av. Marchesan, 1979, Matão, São Paulo, 15994-900, Brazil ~72: MARCIO APARECIDO SILVEIRA~ 33:BR ~31:BR102021025427-0 ~32:16/12/2021

2024/05504 ~ Complete ~54:COMPLEX REDUCING THE CONDENSATION OF WATER, ARTICLE COMPRISING SUCH A COMPLEX, AND METHOD FOR PRODUCING SUCH A COMPLEX ~71:DECATHLON, 4 Boulevard de Mons, France ~72: GONCALVES, Liza;GOURLET, Inès~ 33:FR ~31:2200491 ~32:20/01/2022

2024/05469 ~ Provisional ~54:NOGO ~71:Asivile Mondile, 51 Maitland Street , Van Riebeeck Hoogte , Kariega , Eastern Cape , 6229, South Africa ~72: Asivile Mondile~

2024/05473 ~ Provisional ~54:TWO-PHASE LAYER GRAPHENE AND ZEOLITE MEMBRANE SYSTEM FOR METHANE SEPARATION FROM OXYGEN ~71:SERROUNE ABDELMOUMEN, N°5 Sturdee Avenue, Suite 301, Rosebank, Johannesburg, 2196, South Africa ~72: SERROUNE ABDELMOUMEN~

2024/05482 ~ Complete ~54:SYSTEM FOR DESIGNING ADVERTISING POLES WITH DUAL RENEWABLE POWER SOURCE AND A METHOD THEREOF ~71:DR. CHAYAN BHATTACHARJEE, DEPARTMENT OF ELECTRICAL ENGINEERING NATIONAL INSTITUTE OF TECHNOLOGY SILCHAR CACHAR, ASSAM, 788010, India;DR. PAWAN KUMAR KUSHWAHA, DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING GALGOTIAS COLLEGE OF ENGINEERING & TECHNOLOGY, KNOWLEDGE PARK II,

GREATER NOIDA, UTTAR PRADESH, 201310, India ~72: DR. CHAYAN BHATTACHARJEE;DR. PAWAN KUMAR KUSHWAHA~

2024/05492 ~ Complete ~54:LOW SUGAR-BASED FOOD COMPOSITIONS WITH ROASTED INGREDIENT ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: GALLE, Sandra;LABAT, Emilie;NOVOTNY, Ondrej;VALLES-PAMIES, Baltasar~ 33:EP ~31:21216853.8 ~32:22/12/2021

2024/05505 ~ Complete ~54:CIRCUIT FOR DIRECT CONTROL OF THE ANODE CURRENT OF AN X- RAY TUBE WITH MONOPOLAR OR BIPOLAR POWER SUPPLY BY MEANS OF THE AUTOMATIC REGULATION OF THE GRID CURRENT ~71:SOCIEDAD ESPAÑOLA DE ELECTROMEDICINA Y CALIDAD, S.A., C/ Pelaya 9-13 Pol. Ind., Spain ~72: DíAZ CARMENA, Ángel;MIRÓN QUIRÓS, Agustín;MOLINA CASLA, José Luis~ 33:ES ~31:PCT/ES2022/070631 ~32:04/10/2022

2024/05487 ~ Complete ~54:METHOD FOR ERECTING A TRANSPORTATION STRUCTURE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elena DI SILVESTRO;Giuseppe SELLITTO;MICHAËL GREMLING~

2024/05490 ~ Complete ~54:BEVERAGE POD SYSTEM WITH POD EJECTOR ~71:Société des Produits Nestlé S.A., Avenue Nestlé 55, VEVEY 1800, SWITZERLAND, Switzerland ~72: EISENBART, Alex;KOLLEP, Alexandre;VUAGNIAUX, Didier;ZÜRCHER, Reto Markus~ 33:EP ~31:21216607.8 ~32:21/12/2021

2024/05494 ~ Complete ~54:HIGH PERFORMANCE THERMAL INSULATION OF A HEAT TREATMENT FURNACE FOR ANNEALING A CONTINUOUSLY MOVING STRIP ~71:John Cockerill S.A., Rue Jean Potier 1, SERAING 4100, BELGIUM, Belgium ~72: PICARD, Paul-Henri~ 33:EP ~31:22157736.4 ~32:21/02/2022

2024/05503 ~ Complete ~54:HOT MELT ADHESIVE COMPOSITION ~71:SASOL SOUTH AFRICA LIMITED, Sasol Place, 50 Katherine Street, SANDTON 2196, SOUTH AFRICA, South Africa ~72: DE JONGE, Johan Gerrit-Jan (Deceased);VAN HELDEN, Pieter;VERMEULEN, Johannes Petrus~ 33:ZA ~31:2022/02256 ~32:23/02/2022

2024/05474 ~ Provisional ~54:ENGINEERED METHYLOMICROBIUM BURYATENSE STRAIN 5GBC1- RO1 FOR ENHANCED METHANE BIOCONVERSION AND BIOFEED PRODUCTION ~71:SERROUNE ABDELMOUMEN, N°5 Sturdee Avenue, ,, Suite 301, Rosebank, Johannesburg, Gauteng, 2196, South Africa ~72: ABDELLATIF SERROUNE;HICHAM SERROUNE;SERROUNE ABDELMOUMEN;SHIO WEI HAU~

2024/05486 ~ Complete ~54:FIBRE CEMENT PLATE AND A WALL STRUCTURE HAVING THE FIBRE CEMENT PLATES ~71:SWISSPEARL DANMARK HOLDING A/S, Gasvaerksvej 24. 1., 9000, Aalborg, Denmark ~72: JENSEN, Mia Werner;POULSEN, Carsten Borum;VIG, Peter Hessellund Moller~ 33:DK ~31:PA202270059 ~32:15/02/2022

2024/05496 ~ Complete ~54:ENVIRONMENTALLY-RESPONSIVE MASKED ANTIBODY AND USE THEREOF ~71:DAIICHI SANKYO COMPANY, LIMITED, 3-5-1, Nihonbashi Honcho, Chuo-ku, Tokyo, 1038426, Japan ~72: KAZUNORI SAEKI;SHOTA KUDO~ 33:JP ~31:2022-019125 ~32:09/02/2022;33:JP ~31:2022-196524 ~32:08/12/2022

2024/05501 ~ Complete ~54:A FOAMING ACIDIC HARD SURFACE CLEANING COMPOSITION ~71:UNILEVER GLOBAL IP LIMITED, Port Sunlight, Wirral, Merseyside, CH62 4ZD, United Kingdom ~72: DHANALAKSHMI THIRUMENI;GANESAN RAJENDIRAN;SHAH FAISAL SYED~ 33:EP ~31:22156473.5 ~32:14/02/2022

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2024/05509 ~ Complete ~54:PYRAZOLOPYRIDINE DERIVATIVES AND USES THEREOF ~71:NOVARTIS AG, Lichtstrasse 35, Switzerland ~72: BONAZZI, Simone;CERNIJENKO, Artiom;COBB, Jennifer Stroka;DALES, Natalie Alysia;DEWHURST, Janetta;HESSE, Matthew James;JAIN, Rama;KERRIGAN, John Ryan;MALIK, Hasnain Ahmed;MANNING, James R;O'BRIEN, Gary;PATTERSON, Andrew W;THOMSEN, Noel Marie-France;TING, Pamela YF~ 33:US ~31:63/161,139 ~32:15/03/2021;33:US ~31:63/164,130 ~32:22/03/2021

2024/05527 ~ Complete ~54:NOVEL PEPTIDES ~71:TEITUR TROPHICS APS, Hjortshøjvangen 112, 8530 Hjortshøj, Denmark ~72: DALBY, Anders;FOSGERAU, Keld;JENSEN, Simon Mølgaard;OLLENDORFF, Mathias Kaas;STRØMGAARD, Kristian~ 33:EP ~31:22155992.5 ~32:09/02/2022;33:EP ~31:22160222.0 ~32:04/03/2022

2024/05531 ~ Complete ~54:SEQUENCES AND METHODS FOR PRODUCTION OF RECOMBINANT BIOLOGICAL MOLECULES IN VESICLES ~71:FUJIFILM Diosynth Biotechnologies UK Limited, Belasis Avenue, BILLINGHAM TS23 1LH, UNITED KINGDOM, United Kingdom;University of Kent, The Registry, CANTERBURY CT2 7NZ , KENT, UNITED KINGDOM, United Kingdom ~72: BAKER, Karen;EASTWOOD, Tara;LENNON, Christopher;MULVIHILL, Daniel~ 33:GB ~31:2118435.3 ~32:17/12/2021

2024/05536 ~ Complete ~54:UHF SPORTS TIMING TAG ASSEMBLY ~71:MyLaps B.V., Zuiderhoutlaan 4, HAARLEM 2012 PJ, THE NETHERLANDS, Netherlands ~72: VERWOERD, Adriaan Klaas~ 33:NL ~31:2030572 ~32:17/01/2022

2024/05512 ~ Complete ~54:ACTIVE VIBRATION DAMPING DEVICE FOR PIPELINE ~71:No. 719 Research Institute of China State Shipbuilding Corporation Limited, No. 19, Yangqiaohu Avenue, Canglong Island Development Zone, Jiangxia District, Wuhan City, Hubei Province, 430205, People's Republic of China ~72: CUI Haijian;LEI Chengyou;NIE Xiuyi;WANG Jiaxuan;WANG Li;ZHANG Lei;ZHOU Liubin~

2024/05516 ~ Complete ~54:A BLOCKCHAIN-BASED INDUSTRIAL DATA GOVERNANCE SYSTEM ~71:Ningbo University of Finance and Economics, No. 899, Xueyuan Road, Haishu District, Ningbo City, People's Republic of China ~72: Chen Zhigang~

2024/05519 ~ Complete ~54:KIND OF LOW FISH MEAL COMPOUND FEED FOR LITOPENAEUS VANNAMEI SUITABLE FOR LOW WATER TEMPERATURE CULTURE CONDITIONS ~71:SOUTHERN MARINE SCIENCE AND ENGINEERING GUANGDONG LABORATORY (ZHUHAI), Haiqin No. 4, No.2 University Road, Tangjiawan Town, Xiangzhou District, Zhuhai City, People's Republic of China;SUN YAT-SEN UNIVERSITY, 135 Xingang Xi Road, Guangzhou City, People's Republic of China ~72: CHEN, Anqi;CHEN, Baoyang;CHEN, Mengdie;NIU, Jin;XIE, Shihua;YAO, Rong;ZHAO, Wei~ 33:CN ~31:2023108917520 ~32:19/07/2023

2024/05522 ~ Complete ~54:PURIFICATION OF CONCENTRATED AQUEOUS HYDROXIDE SOLUTIONS FOR ELECTROLYSIS ~71:AIR PRODUCTS AND CHEMICALS, INC., 1940 Air Products Blvd., Allentown, Pennsylvania, 18106-5500, United States of America ~72: BYUNG HEE KO;SEAN MICHAEL OVERA;WILLIAM J CASTEEL JR~ 33:US ~31:63/528,115 ~32:21/07/2023;33:US ~31:18/409,971 ~32:11/01/2024

2024/05525 ~ Complete ~54:A SYSTEM AND METHOD FOR PRESERVING DATA OBFUSCATION DURING COLLABORATION USING PRIOR OBFUSCATED DATA ~71:OMNISIENT (RF) (PTY) LTD, Great Westerford, Unit SG110, 240 Main Road, Rondebosch, Cape Town, Western Cape, 7700, South Africa ~72: PAUL JOHANNES DE BEER~ 33:GB ~31:2315353.9 ~32:06/10/2023

2024/05533 ~ Complete ~54:NOVEL SUBSTITUTED FUSED BICYCLIC PYRIDINE CARBOXAMIDE COMPOUNDS FOR COMBATING PHYTOPATHOGENIC FUNGI ~71:PI Industries Ltd., Udaisagar Road, UDAIPUR 313001, RAJASTHAN, INDIA, India ~72: AUTKAR, Santosh Shridhar;JAGDALE, Arun R.;JENA, Lalit

Kumar;KLAUSENER, Alexander G.M.;MAHAJAN, Vishal A.;PAREKH, Mithil;RODE, Navnath D.;SAXENA, Rohit;SHARMA, Sukriti;YADAV, Santosh Kumar~ 33:IN ~31:202111059075 ~32:17/12/2021

2024/05507 ~ 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~

2024/05514 ~ Complete ~54:TEST SYSTEM OF SOLID HYDROGEN FUEL CELL BASED ON NETWORK LEARNING ~71:Guangzhou Civil Aviation College, NO.10 Xiangyun West Street, Jichang Road, Guangzhou City, Guangdong Province, People's Republic of China ~72: BAI Jiankun;HE Yanbin;LIN Xiaofeng~

2024/05518 ~ Complete ~54:AN INTELLIGENT CONTROL SYSTEM FOR WIDE INTERCROPPING OF WHEAT AND CORN ~71:Institute of Agricultural Resources and Environment, Ningxia Academy of Agriculture and Forestry Sciences, No. 590 East Huanghe Road, Jinfeng District, Yinchuan City, Ningxia Hui Autonomous Region, 750002, People's Republic of China ~72: Jianxin JIN;Jinqin HE;Jinyin LEI;Linguo GUI;Xiaoting LEI;Yun LUO;Zhirong YIN~

2024/05534 ~ Complete ~54:COSMETIC INGREDIENT ~71:Givaudan SA, Chemin de la Parfumerie 5, VERNIER 1214, SWITZERLAND, Switzerland ~72: FLAMMER, Benedikt Christoph;SEMYTKIVSKA, Nina~ 33:GB ~31:2118446.0 ~32:17/12/2021

2024/05539 ~ Complete ~54:COMPOSITIONS ~71:MEDA PHARMA S.P.A., Via Valosa di Sopra, 9, Italy ~72: GELFI, Elena;MOSCONI, Manuel Roberto~ 33:GB ~31:2200008.7 ~32:01/01/2022

2024/05513 ~ Complete ~54:MULTI-CHANNEL ACTIVE VIBRATION-REDUCING SYSTEM ~71:No. 719 Research Institute of China State Shipbuilding Corporation Limited, No. 19, Yangqiaohu Avenue, Canglong Island Development Zone, Jiangxia District, Wuhan City, Hubei Province, 430205, People's Republic of China ~72: CAO Weiwu;DENG Liangliang;LEI Chengyou;LI Senchen;LU Minyue;MA Xunjun;WANG Li~

2024/05541 ~ Complete ~54:PROCESS FOR CO-PRODUCING AMMONIA AND METHANOL WITH REDUCED CARBON ~71:TOPSOE A/S, Haldor Topsøes Allé 1, 2800, Kgs. Lyngby, Denmark ~72: PER JUUL DAHL~ 33:DK ~31:PA202200227 ~32:21/03/2022

2024/05538 ~ Complete ~54:METHOD FOR DEPOLYMERIZING A POLYMER INTO REUSABLE RAW MATERIAL ~71:Ioniqa Technologies B.V., De Lismortel 31, EINDHOVEN 5612 AR, THE NETHERLANDS, Netherlands ~72: FUFACHEV, Egor Vasilyevich;WOLTERS, Joost Robert~ 33:NL ~31:2030566 ~32:17/01/2022

2024/05508 ~ Provisional ~54:MANAGEMENT SYSTEM AND METHOD ~71:KHOZA, Bongani, 363 Dungarvan Avenue, Winchester Hills, South Africa ~72: KHOZA, Bongani~

2024/05515 ~ Complete ~54:METHOD FOR SLOPE REINFORCEMENT WITH GEOTEXTILES ~71:Nanjing Tech University, No.30 South Puzhu Road, Jiangbei New District, Nanjing, Jiangsu, 211816, People's Republic of China;The First Geological Brigade of Jiangsu Bureau of Geology, No.105 Jiadong Village, Youfang Bridge, Yuhuatai District, Nanjing, Jiangsu, 210041, People's Republic of China ~72: Caikou WANG;Feng ZHOU;Gang LIU;Lingkai ZHANG;Rui ZHU;Tao HUANG;Wanli GUO;Wei CHANG;Wei XING;Xiaoying ZHANG;Xin DONG;Yanwei GUO;Yuquan FENG~

2024/05521 ~ Complete ~54:PLANAR STATOR CONFIGURATIONS FOR AXIAL FLUX MACHINES ~71:E-CIRCUIT MOTORS, INC., 10 Charles Street, Needham Heights, Massachusetts, 02494, United States of America ~72: GEORGE HARDER MILHEIM;STEVEN ROBERT SHAW~ 33:US ~31:63/150,129 ~32:17/02/2021

2024/05526 ~ Complete ~54:A HYBRID PATCH-SLOT ANTENNA WITH CONICAL SEMICIRCULAR POWER DIVIDER AND PIN DIODE ~71:Dr.M.A.BHAGYAVENI, No. 32 New Street, Kottur, Chennai, Tamilnadu, 600 085, India ~72: Dr.M.A.BHAGYAVENI;Dr.T. RAMESH BABU;RATHNA.R~ 33:IN ~31:202341053198 A ~32:08/08/2023

2024/05530 ~ Complete ~54:SUSTAINED RELEASE PHARMACEUTICAL COMPOSITION OF UPADACITINIB ~71:RENATA PHARMACEUTICAL (IRELAND) LIMITED, 13-18 City Quay, Ireland ~72: BOORUGU, Rambabu;GAT, Ganesh Vinayak;KABIR, Syed Omar;KABIR, Syed S. Kaiser;RAHMAN. A.H.M. Masbahur~ 33:US ~31:63/266,947 ~32:20/01/2022

2024/05537 ~ Complete ~54:LPG FUEL COMPOSITIONS, ADDITIVES THEREFOR AND USES THEREOF ~71:TotalEnergies OneTech, 1a Défense 6, 2 Place Jean Millier, COURBEVOIE 92400, FRANCE, France ~72: D'SOUZA, Roark;EDAPPADY, Niranjan;EYDOUX, Franck Georges;KAPOOR, Rohil;MONDKAR, Hemant Sunanda;REDDY, Vishnu Vardhan;SHIRKE, Vrushali Vijay~ 33:EP ~31:22151838.4 ~32:17/01/2022

2024/05511 ~ Complete ~54:STEPLESS VARIABLE FREQUENCY VIBRATION ABSORBER ~71:No. 719 Research Institute of China State Shipbuilding Corporation Limited, No. 19, Yangqiaohu Avenue, Canglong Island Development Zone, Jiangxia District, Wuhan City, Hubei Province, 430205, People's Republic of China ~72: DAI Chengming;DAI Ruijie;DING Ding;DU Saipeng;GUO Hanbei;LIU Haijian;QIANG Lei;SHANG Chao;TAN Haitao;WANG Qiangyong;XIONG Bo;YANG Xuesong;ZHANG Zhenli~

2024/05517 ~ Complete ~54:A BLOCKCHAIN-BASED DATA SECURITY SHARING PLATFORM ~71:Ningbo University of Finance and Economics, No. 899, Xueyuan Road, Haishu District, Ningbo City, People's Republic of China ~72: Chen Zhigang~

2024/05520 ~ Complete ~54:A DISCRETELY ADJUSTABLE WRENCH WITH PREDETERMINED MOUTH SIZES ~71:JOOSTE, Johan, 15 Parkvillas, 21 Achilles Road, South Africa ~72: JOOSTE, Johan~ 33:ZA ~31:2023/09824 ~32:23/10/2023

2024/05524 ~ Complete ~54:ISOFORM-SELECTIVE ANTI-TGF-BETA ANTIBODIES AND METHODS OF USE ~71:GENENTECH, INC., 1 DNA Way, South San Francisco, California, 94080-4990, United States of America ~72: DARYLE DEPIANTO;DHAYA SESHASAYEE;JIA WU;JIAN PING YIN;JOSEPH R ARRON;PATRICK J LUPARDUS;THIRUMALAI RAJAN RAMALINGAM;TIANHE SUN;TULIKA TYAGI;WEI-CHING LIANG;WEIYU LIN;WENDY GREEN HALPERN;YAN WU~ 33:US ~31:62/991,806 ~32:19/03/2020;33:US ~31:63/044,478 ~32:26/06/2020

2024/05532 ~ Complete ~54:SOLID CRYSTALLINE FORMS OF HELICASE-PRIMASE INHIBITORS AND PROCESS OF PREPARATION THEREOF ~71:Innovative Molecules GmbH, Dachauer Str. 65, MÜNCHEN 80335, GERMANY, Germany ~72: GEGE, Christian;KLEYMANN, Gerald~ 33:EP ~31:22151820.2 ~32:17/01/2022;33:EP ~31:22170332.5 ~32:27/04/2022

2024/05523 ~ Complete ~54:A PORTABLE ELECTROCARDIOGRAPHIC MONITORING DEVICE FOR THE GERIATRIC CARDIOLOGY DEPARTMENT ~71:Yan'an University Affiliated Hospital, No. 43, North Street, Baota District, Yan'an City, Shaanxi Province, 716000, People's Republic of China ~72: Fang Lin;Yang Ren~ 33:CN ~31:202410853769.1 ~32:27/06/2024

2024/05529 ~ Complete ~54:COUPLING DEVICE FOR COUPLING VIBRATION SYSTEMS ~71:NORTHROP GRUMMAN LITEF GMBH, Lörracher Strasse 18, Germany ~72: RENDE, Jan~ 33:DE ~31:10 2021 134 351.8 ~32:22/12/2021

2024/05535 ~ Complete ~54:ANTIBODY-DRUG CONJUGATE TARGETING CLAUDIN18.2 ~71:Fortvita Biologics (Singapore) Pte. Ltd., 38 Beach Road, #29-11 South Beach Tower, SINGAPORE 189767, SINGAPORE, Singapore ~72: HE, Kaijie;LIU, Xiaodan;LU, Jia;ZHOU, Shuaixiang~ 33:CN ~31:202111551337.8 ~32:17/12/2021

2024/05540 ~ Complete ~54:INTERLEUKIN-2 MUTEINS FOR THE TREATMENT OF AUTOIMMUNE DISEASES ~71:VISTERRA, INC., 275 2nd Avenue, United States of America ~72: AKRAMOFF, Nicole;MA, Diane;MATHUR, Mohit;OLDACH, David William;SCHACHTER, Asher;SCHULTZ, Michaela;SLOAN, Susan;TUBBS, William C.;YARBROUGH, Jill~ 33:US ~31:63/309,293 ~32:11/02/2022

2024/05510 ~ Complete ~54:INTEGRATED AIRBAG VIBRATION ISOLATOR ~71:No. 719 Research Institute of China State Shipbuilding Corporation Limited, No. 19, Yangqiaohu Avenue, Canglong Island Development Zone, Jiangxia District, Wuhan City, Hubei Province, 430205, People's Republic of China ~72: DAI Chengming;DING Ding;DU Saipeng;GUO Hanbei;LIU Haijian;QIANG Lei;SHANG Chao;TAN Haitao;WANG Qiangyong;XIONG Bo;YANG Xuesong;ZHANG Limei;ZHANG Zhenli~

2024/05528 ~ Complete ~54:METHODS FOR TREATMENT OF SUBJECTS WITH PLAQUE PSORIASIS OF THE SCALP ~71:SUN PHARMACEUTICAL INDUSTRIES LIMITED, Sun House, Plot No. 201 B/1, Western Express Highway, Goregaon (E), India ~72: BALLERINI, Rocco;FUENTES-DUCULAN, Judilyn;NISHANDAR, Tushar;NOGRALES, Kristine;YAO, Siu-Long~ 33:IN ~31:202221004128 ~32:25/01/2022

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2024/05543 ~ Complete ~54:AN ENGINEERING SURVEYING AND MAPPING DEVICE ~71:Chuzhou University, No.1 Huifeng West Road, Nanqiao District, Chuzhou City, Anhui Province, People's Republic of China ~72: Deng Yuechuan;Qian Ruyou~

2024/05545 ~ Complete ~54:A MOBILE MANIPULATOR FOR MACHINING ~71:Beijing Institute of Technology, No.5 Zhongguancun South Street, Haidian District, Beijing City, 100081, People's Republic of China ~72: Changhua Hu~ 33:CN ~31:2023112394516 ~32:25/09/2023

2024/05562 ~ Complete ~54:WOUND CORE PRODUCING APPARATUS AND WOUND CORE PRODUCING METHOD ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8071, JAPAN, Japan ~72: MIZUMURA, Takahito;MOGI, Hisashi~ 33:JP ~31:2022-016395 ~32:04/02/2022

2024/05567 ~ Complete ~54:SAFE AND ENVIRONMENTALLY-FRIENDLY CONSTRUCTION METHOD FOR HYDROGEN SULFIDE-CONTAINING SOIL ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9, Chunxiu Road, Dongcheng District, Beijing 100027, People's Republic of China ~72: TIANLIANG CHEN~ 33:CN ~31:202311281778X ~32:07/10/2023

2024/05573 ~ Complete ~54:YEAST-BASED NUTRIENT AND USES THEREOF ~71:DANSTAR FERMENT AG, Poststrasse 30, Switzerland ~72: FERREIRA, David;ORTIZ-JULIEN, Anne~ 33:EP ~31:22305593.0 ~32:21/04/2022

2024/05542 ~ Provisional ~54:AERIAL WATERPIPE ~71:Paula Steyn, Rietfontein 274 JT Portion 1, South Africa ~72: TL Steyn~ 33:ZA ~31:1 ~32:16/07/2024

2024/05549 ~ Complete ~54:METHOD FOR EVALUATING PRODUCTION POTENTIAL OF VEGETATION ~71:Shanxi Academy of Forestry and Grassland Sciences, No. 105 Xinjian South Road, Taiyuan City, Shanxi Province, 030012, People's Republic of China ~72: CHANG Maolin;CHEN Chun;GAO Long;GUO Bin;GUO Cuiping;HAN Xiaolin;LI Meiliang;MA Jialin;ZHAO Juan;ZHENG Zhili~

2024/05552 ~ Complete ~54:FOOTWEAR STRAP AND FOOTWEAR HAVING THE SAME ~71:Skechers U.S.A., Inc. II, 228 Manhattan Beach Blvd., MANHATTAN BEACH 90266 , CA, USA, United States of America ~72: CHENG, WanLing;WANG, Eric Chi Chiang;XIE, Hui~ 33:CN ~31:202321904385.5 ~32:19/07/2023;33:US ~31:18/438,492 ~32:11/02/2024

2024/05558 ~ Complete ~54:CRYSTALLINE FORM OF GLP-1 RECEPTOR AGONIST AND PREPARATION METHOD THEREFOR ~71:JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., NO. 7 KUNLUNSHAN ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE LIANYUNGANG, JIANGSU 222047, CHINA, People's Republic of China ~72: DU, Zhenxing;LU, Weidong;SHAO, Qiyun;XU, Gujun;YANG, Junran~ 33:CN ~31:202111586541.3 ~32:23/12/2021

2024/05550 ~ Complete ~54:A VEHICLE SUPERVISION SYSTEM FOR INDUSTRIAL PARKS BASED ON THE INTERNET OF THINGS ~71:Wenzhou Polytechnic, University Town, Chashan and Jiangjiaqiao 81, Wenzhou, Zhejiang, People's Republic of China ~72: Wu Shuying~

2024/05551 ~ Complete ~54:AN INDUSTRIAL SITE INFORMATION SECURITY MANAGEMENT SYSTEM ~71:Wenzhou Polytechnic, University Town, Chashan and Jiangjiaqiao 81, Wenzhou, Zhejiang, People's Republic of China ~72: Wu Shuying~

2024/05559 ~ Complete ~54:PHARMACEUTICALLY ACCEPTABLE SALT AND CRYSTALLINE FORM OF GLP-1 RECEPTOR AGONIST AND PREPARATION METHOD THEREFOR ~71:JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., NO. 7 KUNLUNSHAN ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE LIANYUNGANG, JIANGSU 222047, CHINA, People's Republic of China;SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., NO. 279 WENJING ROAD, ECONOMIC AND TECHNOLOGICAL DEVELOPMENT ZONE, MINHANG DISTRICT, SHANGHAI 200245, CHINA, People's Republic of China ~72: DU, Zhenxing;FENG, Jun;HE, Feng;LU, Weidong;SHAO, Qiyun;XU, Gujun;YANG, Junran~ 33:CN ~31:202111584574.4 ~32:23/12/2021

2024/05570 ~ Complete ~54:TARGETED CYTOKINES AND METHODS OF USE THEREOF ~71:XILIO DEVELOPMENT, INC., 828 Winter Street, Waltham, Massachusetts, 02451, United States of America ~72: BENJAMIN NICHOLSON;CARL ULI BIALUCHA;DHEERAJ TOMAR;ERTAN ERYILMAZ;KURT ALLEN JENKINS;PARKER JOHNSON~ 33:US ~31:63/314,926 ~32:28/02/2022;33:US ~31:63/314,928 ~32:28/02/2022

2024/05568 ~ Complete ~54:A ZONED REACTOR FOR THE REFORMING OF NH3 ~71:BASF SE, Carl-Bosch-Strasse 38, 67056, Ludwigshafen am Rhein, Germany ~72: ELIAS CHRISTOPHER FREI;LUKASZ KARWACKI;MATTHIAS FELISCHAK;NILS BOTTKE;PETER HEIDEBRECHT~ 33:EP ~31:22167434.4 ~32:08/04/2022

2024/05544 ~ Complete ~54:AN EDDY CURRENT FLAW DETECTION DEVICE BASED ON MOBILE MANIPULATOR ~71:Beijing Institute of Technology, No.5 Zhongguancun South Street, Haidian District, Beijing City, 100081, People's Republic of China ~72: Changhua Hu~ 33:CN ~31:2023112398451 ~32:25/09/2023

2024/05546 ~ Complete ~54:A MOBILE ASSEMBLY MANIPULATOR ~71:Beijing Institute of Technology, No.5 Zhongguancun South Street, Haidian District, Beijing City, 100081, People's Republic of China ~72: Changhua Hu~ 33:CN ~31:202311240072.9 ~32:25/09/2023

2024/05563 ~ Complete ~54:METHOD AND DEVICE FOR FAST QUANTITATIVE DETERMINATION OF SEED TREATMENT LOADING ~71:Syngenta Crop Protection AG, Rosentalstrasse 67, BASEL 4058, SWITZERLAND, Switzerland ~72: WITMER, David~ 33:EP ~31:22154338.2 ~32:31/01/2022

2024/05560 ~ Complete ~54:METHOD FOR ERECTING A TRANSPORTATION STRUCTURE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elena DI SILVESTRO;Giuseppe SELLITTO;MICHAËL GREMLING~

2024/05571 ~ Complete ~54:LOW TEMPERATURE NH3-REFORMING UNDER ELEVATED PRESSURE ~71:BASF SE, Carl-Bosch-Strasse 38, 67056, Ludwigshafen am Rhein, Germany ~72: ADELHEID SCHULZ;CHIARA BOSCAGLI;ELIAS CHRISTOPHER FREI;JAN PHILIPP HERRMANN;NILS BOTTKE;THOMAS HEIDEMANN;VIRGINIE LANVER~ 33:EP ~31:22160163.6 ~32:04/03/2022

2024/05575 ~ Provisional ~54:DOCSEMUR; CAPSULES; TEABAGS; PURE HEALTH DRINKS ~71:ABDUL NASSER OMAR, 28-6TH AVENUE, RONDEBOSH EAST, South Africa ~72: ABDUL NASSER OMAR~

2024/05547 ~ Complete ~54:COVERT COMMUNICATION SYSTEM BASED ON FEMTOSECOND LASER ~71:SOUTHWEST UNIVERSITY, No.2 Tiansheng Road, Beibei District, Chongqing, People's Republic of China ~72: BIAN Jiayi;DENG Tao;GAO Ziye;LIN Xiaodong;TANG Xi;WANG Fei;WU Zhengmao;XIA Guangqiong;XIE Yingke;XIONG Tao~ 33:CN ~31:2024211388931 ~32:23/05/2024

2024/05554 ~ Complete ~54:PYRIDINE-CONTAINING POLYCYCLIC DERIVATIVE, AND PREPARATION METHOD THEREFOR AND USE THEREOF ~71:JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., Economic and Technological Development Zone, People's Republic of China;SHANGHAI HANSOH BIOMEDICAL CO., LTD., Building 2, No. 3728 Jinke Road, People's Republic of China ~72: DENG, Xinxian;DONG, Jiaqiang;GONG, Zhen;JIN, Fangfang;YU, Wensheng~ 33:CN ~31:202210041733.4 ~32:14/01/2022;33:CN ~31:202211294865.4 ~32:21/10/2022;33:CN ~31:202211474196.9 ~32:22/11/2022

2024/05556 ~ Complete ~54:RAPIDLY DISINTEGRATING BUOYANT COMPOSITION ~71:BIO-LAB, INC., 1725 NORTH BROWN ROAD, LAWRENCEVILLE, GEORGIA 30043, USA, United States of America ~72: ROUSE, David;SAYRE, Curtis;TRENCK, Brian~ 33:US ~31:63/293,275 ~32:23/12/2021

2024/05565 ~ Complete ~54:LABYRINTH FOR CAPTURING AND DESTROYING MOSQUITO LARVAE ~71:Arachnoide Sarl, Villa les Ficus Quartier Camaruche, SAINT BARTHELEMEY - GUADELOUPE 97133 , FRANCE, France;CLOQUELL, Stephane, Villa les ficus Quartier Camaruche, SAINT BARTHELEMY - GUADELOUPE 97133, FRANCE, France ~72: BOUCHONNEAU, Ludovic~ 33:FR ~31:FR2200340 ~32:17/01/2022

2024/05574 ~ Complete ~54:ADVANCED ALUMINUM ELECTROLYSIS CELL ~71:ELYSIS LIMITED PARTNERSHIP, 1 Place Ville Marie Suite 2323 Montréal, Canada ~72: LIU, Xinghua;MOSSER, Benjamin D.~ 33:US ~31:63/311,374 ~32:17/02/2022

2024/05548 ~ Complete ~54:FORMULATION OF SEEDLING SUBSTRATE FOR MELASTOMA DODECANDRUM CUTTINGS AND PREPARATION METHOD THEREOF ~71:Soil and Fertilizer And Resources and Environment Institute, Jiangxi Academy of Agricultural Science, No.602, Nanlian Road, Qingyunpu District, Nanchang City, Jiangxi Province, 330200, People's Republic of China ~72: CHEN, Jin;CHEN, Xia;FENG, Chao;PENG, Huohui;QIU, Caifei;QIU, Xiaoying;SHAO, Caihong~

2024/05553 ~ Complete ~54:MULTIFUNCTIONAL INFUSION SUPPORT ~71:Chongqing University Cancer Hospital, No. 181, Hanyu Road, Shapingba District, Chongqing City, People's Republic of China ~72: Deng Yuhong;Liu Tingting;Lv Jing;Wang Xia~ 33:CN ~31:202420841631.5 ~32:23/04/2024

2024/05557 ~ Complete ~54:IMPROVED SCREENING METHOD FOR GENOME EDITED EVENTS ~71:BASF AGRICULTURAL SOLUTIONS SEED US LLC, 100 PARK AVENUE, FLORHAM PARK, NEW JERSEY 07932,

USA, United States of America ~72: BOSSIER, Eveline;D'HALLUIN, Katelijn;DE VLEESSCHAUWER, David;GOLDS, Timothy, James;MEULEWAETER, Frank~ 33:EP ~31:21216795.1 ~32:22/12/2021

2024/05564 ~ Complete ~54:MIXED PLATINUM RUTHENIUM OXIDE AND ELECTRODES FOR THE OXYGEN EVOLUTION REACTION ~71:BASF SE, Carl-Bosch-Strasse 38, LUDWIGSHAFEN AM RHEIN 67056, GERMANY, Germany ~72: DE, Sandip;HINRICHSEN, Bernd;HIRTH, Sabine;KOTREL, Stefan;MALKO, Daniel;MATTHES, Lars;MUELLER, Phillipp;SCHAEFER, Ansgar~ 33:EP ~31:22152720.3 ~32:21/01/2022

2024/05569 ~ Complete ~54:COMPACT FORCE APPLYING DEVICE ~71:WAGSTAFF, INC., 3910 N. Flora Rd., Spokane Valley, Washington, 99216, United States of America ~72: BRETT THIELMAN;CRAIG CORDILL~ 33:US ~31:17/649,427 ~32:31/01/2022

2024/05555 ~ Complete ~54:TRANSPORTATION STRUCTURE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elena DI SILVESTRO;Giuseppe SELLITTO;MICHAËL GREMLING~

2024/05561 ~ Complete ~54:A WEARABLE DEVICE FOR CONTINUOUS MONITORING OF HEALTH PARAMETERS ~71:Onalabs Inno-Hub, Av. Parc Tecnològic numero 3, Centro de Empresas Parc Tecnològic del Vallès, CERDANYOLA DEL VALLES 08290, SPAIN, Spain ~72: AGUILAR TORÁN, Javier;COLMENA RUBIAL, Valeria;MUÑOZ PASCUAL, Francesc Xavier;PUNTER VILLAGRASA, Jaime;RABOST GARCÍA, Genís~ 33:EP ~31:21383240.5 ~32:30/12/2021;33:EP ~31:21383241.3 ~32:30/12/2021

2024/05566 ~ Complete ~54:HERBICIDE COMBINATIONS ~71:UPL CORPORATION LIMITED, 6th Floor, Suite 157B Harbor Front Building President John Kennedy Street Port Louis, Mauritius;UPL EUROPE LTD, The Centre, 1st Floor Birchwood Park Warrington Cheshire WA3 6YN, United Kingdom ~72: BONNET, Marc;D'INNOCENZO, Sebastien;HUART, Gerald;POLLET, Jean-Philippe~ 33:EP ~31:21306956.0 ~32:29/12/2021

2024/05572 ~ Complete ~54:ELECTROCHEMICAL CELLS ~71:CHARGE CCCV LLC, 2226 Center of Excellence, 45 Murray Hill Road, United States of America ~72: UPRETI, Shailesh;VEERARAGHAVAN, Vishnu~ 33:US ~31:63/301,237 ~32:20/01/2022

2024/05683 ~ Provisional ~54:METHOD AND DEVICE TO SECURE SAFETY NETS OR STEEL MESH TO ROCK ANCHORS OR ROCK BOLTS ~71:RICHARD ANDREAS SCHAFER LAMOS, 22 TOLIP ST, WESTDENE, South Africa ~72: RICHARD ANDREAS SCHAFER LAMOS ~

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2024/05605 ~ Complete ~54:METHOD FOR TREATING WASTE WATERS AND RESIDUE SLUDGE BY MEANS OF CARBONATION AND DECARBONATION IN A CHEMICAL INSTALLATION FOR NITRIDATION IN A MOLTEN SALT BATH ~71:HYDROMECANIQUE ET FROTTEMENT, 69 Avenue Benoît Fourneyron, France ~72: GARCIA, Frédéric;HEAU, Christophe~ 33:FR ~31:2200858 ~32:31/01/2022

2024/05600 ~ Complete ~54:ELLIPTIC CURVE ARITHMETIC IN SCRIPT ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: LARRAIA, Enrique~ 33:GB ~31:2200992.2 ~32:26/01/2022

2024/05604 ~ Complete ~54:METHOD FOR TREATING WASTE WATERS AND RESIDUE SLUDGE BY MEANS OF DECARBONATION IN A CHEMICAL INSTALLATION FOR NITRIDATION IN A MOLTEN SALT BATH ~71:HYDROMECANIQUE ET FROTTEMENT, 69 Avenue Benoît Fourneyron, France ~72: GARCIA, Frédéric;HEAU, Christophe~

2024/05607 ~ Complete ~54:PHARMACEUTICAL COMPOSITION COMPRISING ENAVOGLIFLOZIN FOR PREVENTING OR TREATING OBESITY IN CANINE ANIMALS ~71:DAEWOONG PHARMACEUTICAL CO.,

LTD., 35-14, Jeyakgongdan 4-gil, Hyangnam-eup, Republic of Korea ~72: CHOI, Ji Soo;HUH, Wan;LIM, Hyun-Woo;PARK, Joon Seok~ 33:KR ~31:10-2022-0008671 ~32:20/01/2022

2024/05577 ~ Provisional ~54:SNIPER DRONE ~71:Mathanzima Joseph Notshulwana, 1 Thibault Square, South Africa ~72: Mathanzima Joseph Notshulwana~ 33:ZA ~31:745588 ~32:17/07/2024

2024/05586 ~ Complete ~54:A RAPID DELIVERY NUCLEAR EMERGENCY RADIATION MONITORING SYSTEM AND A METHOD THEREOF ~71:Jiangsu Ocean University, No. 59, Cangwu Road, Haizhou District, Lianyungang City, Jiangsu Province, 222000, People's Republic of China ~72: Jianhua Xue;Pengtao Cao~

2024/05587 ~ Complete ~54:NOVEL ANTI-A2AP ANTIBODIES AND USES THEREOF ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: FISCHER, Melanie;GLUNZ, Julia;HEITMEIER, Stefan;JÖRISSEN, Hannah;SCHULENBURG, Cindy;THIEL, Christoph;WEBER, Ernst;WILMEN, Andreas~ 33:EP ~31:20196259.4 ~32:15/09/2020

2024/05592 ~ Complete ~54:METHOD FOR ERECTING A TRANSPORTATION STRUCTURE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elena DI SILVESTRO;Giuseppe SELLITTO;MICHAËL GREMLING~

2024/05580 ~ Provisional ~54:EAGLE 67 ~71:Mathanzima Joseph Notshulwana, 1 Thibault Square, South Africa ~72: Mathanzima Joseph Notshulwana~ 33:ZA ~31:745588/2024 ~32:17/07/2024

2024/05594 ~ Complete ~54:METHODS AND COMPOSITIONS FOR TREATING BARTH SYNDROME ~71:PROVENTION BIO, INC., 55 Broad Street, 2nd Floor Red Bank, United States of America;UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED, 223 Grinter Hall, Gainesville, United States of America ~72: BYRNE, Barry, John;CORTI, Manuela;DUNFORD, Paul;LEON, Francisco;MILLER, Diana~ 33:US ~31:63/293,514 ~32:23/12/2021

2024/05602 ~ Complete ~54:STABLE MICRONUTRIENT COMPLEX FOR USE IN AGRICULTURAL APPLICATIONS ~71:WINFIELD SOLUTIONS, LLC, 4001 Lexington Avenue North, Arden Hills, Minnesota 55126, United States of America ~72: CATHERINE WHITE;DANNY BROWN;DUSTYN SAWALL;MEERA SIDHESWARAN;SRIDHAR MANNEM~ 33:US ~31:63/305,891 ~32:02/02/2022

2024/05581 ~ Provisional ~54:AVIATION 67 ~71:Mathanzima Joseph Notshulwana, 1Thibault Square, South Africa ~72: Mathanzima Joseph Notshulwana~ 33:ZA ~31:745588/2024 ~32:17/07/2024

2024/05584 ~ Complete ~54:FOLDABLE TANK ~71:Frederick Andre DU PREEZ, 51 Sunningdale Drive, South Africa ~72: Frederick Andre DU PREEZ~ 33:ZA ~31:2023/08097 ~32:22/08/2023

2024/05588 ~ Complete ~54:SMART CONTROL SYSTEM FOR VORTEX-INDUCED VIBRATION OF WIND TURBINE TOWERS BASED ON INTERMITTENT PLASMA ACTUATORS ~71:CHANGSHA UNIVERSITY, No. 98, Hongshan Road, Kaifu District, Changsha City, Hunan Province, 410022, People's Republic of China ~72: Lei Xu;Li Jia;Luo Haiyin;Pan Xiaowang;Shen Lian;Wang Hanfeng;Zhang Xuewen;Zhou Shuai~

2024/05596 ~ Complete ~54:EGFR-CMET–TARGETED COMPOUNDS AND USES THEREOF ~71:AstraZeneca UK Limited, 1 Francis Crick Avenue, Cambridge Biomedical Campus, CAMBRIDGE CB2 0AA, UNITED KINGDOM, United Kingdom;Fusion Pharmaceuticals Inc., 270 Longwood Road, SOUTH HAMILTON L8P 0A6, ONTARIO, CANADA, Canada ~72: AGHEVLIAN, Sadaf;BUCHANAN, Andrew Grier;COMER, Frank Irvine;DU, Qun;DUFFY, Ian R.;GRINSHTEIN, Natalie;KASTURIRANGAN, Srinath;KOSTELNIK, Thomas I.;MAZOR, Yariv;YANG, Chunning~ 33:US ~31:63/291,910 ~32:20/12/2021

2024/05598 ~ Complete ~54:A METHOD OF CONTROLLING PEST ~71:UPL Corporation Limited, 6th Floor, Suite 157B, Harbor Front Building, President John Kennedy Street, PORT LOUIS, MAURITIUS, Mauritius;UPL Europe Ltd., The Centre, 1st Floor, Birchwood Park, WARRINGTON WA3 6YN, CHESHIRE, UNITED KINGDOM, United Kingdom ~72: LÓPEZ, David Roldán;TELLO, Angel Rodríguez~ 33:EP ~31:22382040.8 ~32:21/01/2022

2024/05601 ~ Complete ~54:PROCESS FOR PREPARING A HIGH-PURITY NICKEL SULPHATE SOLUTION ~71:UMICORE, Rue du Marais 31, 1000, Brussels, Belgium ~72: FRANCIS RONDAS;JAN LUYTEN;JORIS ROOSEN;MAARTEN SCHURMANS;WANNES DE MOOR~ 33:EP ~31:21216032.9 ~32:20/12/2021

2024/05603 ~ Complete ~54:DEVICES, SYSTEMS, AND METHODS FOR ALIGNING DRILL RIGS ~71:VERACIO LTD., 2455 South 3600 West, United States of America ~72: CASE, Michael;MORONEY, Geoff;TOMASZEWSKI, Adam~ 33:US ~31:63/291,582 ~32:20/12/2021

2024/05606 ~ Complete ~54:METHOD FOR TREATING WASTE WATERS AND RESIDUE SLUDGE BY MEANS OF CARBONATION IN A CHEMICAL INSTALLATION FOR NITRIDATION IN A MOLTEN SALT BATH ~71:HYDROMECANIQUE ET FROTTEMENT, 69 Avenue Benoît Fourneyron, France ~72: GARCIA, Frédéric;HEAU, Christophe~ 33:FR ~31:2200855 ~32:31/01/2022

2024/05576 ~ Provisional ~54:A METHOD AND SYSTEM OF INITIATING A TELEPHONE CALL BETWEEN TWO COMMUNICATION DEVICES ~71:SEPTEMBER, Joseph, Unit 20 Eldorado Complex, 135 Becksberg Avenue, Lyttelton, CENTURION 0157, Gauteng, SOUTH AFRICA, South Africa ~72: SEPTEMBER, Joseph~

2024/05582 ~ Provisional ~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~

2024/05589 ~ Complete ~54:DEVICE OR METHOD FOR PRODUCING A FOOD PRODUCT FROM A PORTION OF FOOD ~71:EBERHARDT GMBH, Eichendorffstrasse 5, Germany ~72: EBERHARDT, Rainer;EBERHARDT, Ralf~ 33:EP ~31:23189751.3 ~32:04/08/2023

2024/05595 ~ Complete ~54:IGA PROTEASE TRUNCATION, FUSION PROTEIN COMPRISING IGA PROTEASE TRUNCATION, AND USE THEREOF ~71:Peking University First Hospital, No. 8 Xishiku Street, Xicheng District, BEIJING 100034, CHINA (P.R.C.), People's Republic of China;Shanghai Alezyme Pharmaceuticals Ltd., Floor 3, Building 1, No. 400 Fangchun Road China (Shanghai), Pilot Free Trade Zone, Pudong New Area,, SHANGHAI 201210, CHINA (P.R.C.), People's Republic of China ~72: LV, Jicheng;SHU, Chutian;ZHANG, Hong~ 33:CN ~31:202210112254.7 ~32:29/01/2022;33:CN ~31:202310079241.9 ~32:18/01/2023

2024/05593 ~ Complete ~54:A PHARMACEUTICAL COMBINATION OF ANTISPASMODIC AND ANXIOLYTIC AGENT ~71:DROTASTAR LLC, 16192 Coastal Highway, Lewes, United States of America ~72: BERLIA, Aditya;BERLIA, Nishant;BERLIA, Sushma Paul;SINGH, Gurvinder~ 33:IN ~31:202211006919 ~32:09/02/2022

2024/05579 ~ Provisional ~54:H2O ELECRICAL CABLE ~71:Mathanzima Joseph Notshulwana, 1 Thibault Square, South Africa ~72: Mathanzima Joseph Notshulwana~ 33:ZA ~31:745588 ~32:17/07/2024

2024/05585 ~ Complete ~54:TRI-GATE GA2O3 TRANSVERSE MOSFET POWER DEVICE AND PREPARATION METHOD THEREOF ~71:Zhejiang Xinke Semiconductor Co., Ltd., Room 706, Building 23, No. 68 Jiangnan Road, Chunjiang Street, Fuyang District, Hangzhou City, Zhejiang Province, 311400, People's Republic of China ~72: CAO, Mingjie;LI, Jingbo;QI, Hongji;WANG, Xiaozhou;ZHAO, Yan~

2024/05578 ~ Provisional ~54:GUARDIAN ANGEL ~71:Mathanzima Joseph Notshulwana, 1 Thibault Square, South Africa ~72: mathanzima joseph notshulwana~ 33:ZA ~31:745588 ~32:17/07/2024

2024/05583 ~ Provisional ~54:A PROPAGATION TRAY ASSEMBLY ~71:DICK, James Quinton Cameron, 5 Cape Robin Crescent, South Africa;WRIGHT, Brennan Kevin, Spilo Business Park, Cnr Drommedaris and Skoenmaker Street, South Africa ~72: DICK, James Quinton Cameron;WRIGHT, Brennan Kevin~

2024/05591 ~ Complete ~54:COMBINATION TREATMENT OF SMALL-CELL LUNG CANCER ~71:ITM ISOTOPE TECHNOLOGIES MUNICH SE, Lichtenbergstrasse 1, Germany ~72: KOSSATZ, Susanne;MECKEL, Marian;RAUCH, Hartmut;WEBER, Wolfgang;ZHERNOSEKOV, Konstantin~ 33:EP ~31:PCT/EP2022/061254 ~32:27/04/2022

2024/05597 ~ Complete ~54:FUSION PROTEINS COMPOSED OF AN ANTIBODY AND A MUTEIN ~71:Centro de Inmunologia Molecular, Calle 216 esq. 15, Atabey, Playa, LA HABANA 11300, CUBA, Cuba ~72: CASADESÚS PAZOS, Ana Victoria;HERNÁNDEZ GARCÍA, Tays;LEÓN MONZÓN, Kalet~ 33:CU ~31:2021-0104 ~32:21/12/2021

2024/05599 ~ Complete ~54:ACCESSORY TRACK DECK ASSEMBLY ~71:Leer Group, 28858 Ventura Drive, ELKHART 46517, IN, USA, United States of America ~72: DYLEWSKI, II, Eugene A.;SISLO, Michael A.~ 33:US ~31:63/300,791 ~32:19/01/2022;33:US ~31:18/096,966 ~32:13/01/2023

2024/05590 ~ Complete ~54:PREDICTING RECURRENCE FROM FINANCIAL DATA ~71:YODLEE, INC., 621 Hillsborough Street, 10th Floor, United States of America ~72: BANDYOPADHYAY, Ambar;DESHMUKH, Om D.;MANJUNATH, Vinay;PATIL, Deepak;RATHOD, Rushikesh~ 33:US ~31:18/235,264 ~32:17/08/2023

. - APPLIED ON 2024/07/19 -

2024/05612 ~ Complete ~54:A DYNAMIC ADJUSTMENT METHOD FOR STORAGE AREA OF PREFABRICATED COMPONENTS ~71:Shenyang Jianzhu University, No.25, Hunnan Middle Road, Hunnan District, Shenyang City, Liaoning Province, 110168, People's Republic of China ~72: Shunchao Zhang;Shuo Lin;Zhonghua Han~ 33:CN ~31:202311395918.6 ~32:25/10/2023

2024/05622 ~ Complete ~54:RETRANSMISSION METHOD, COMMUNICATION DEVICE AND STORAGE MEDIUM ~71:SHENZHEN TRANSSION HOLDINGS CO., LTD., Room 1702-1703, Desay Building, No.9789 Shennan Road, Hi-tech Park, People's Republic of China ~72: HUANG, Chiunwei;HUANG,Wei;SHEN, Xingya;XIE, Yili~ 33:CN ~31:202311227169.6 ~32:22/09/2023

2024/05618 ~ Complete ~54:AUTOMOBILE SAFETY AND ANTI-THEFT DEVICE ~71:Xinyu University, No. 2666, Sunshine Avenue, High tech Zone, Xinyu City, Jiangxi Province, 338025, People's Republic of China ~72: Li Naigen;Liu Hesheng;Xie Xiaoda;Yan Zhiyong~

2024/05635 ~ Complete ~54:COMBINATION THERAPY INTRAVAGINAL RINGS ~71:The Population Council, Inc., One Dag Hammarskjold Plaza, NEW YORK 10017, NY, USA, United States of America ~72: DANGI, Bindi Ajit;DE GRAAFF, Wouter;FETHERSTON, Susan;HANSRAJ, Bashir Ramzanali;HENDRIKUS VAN LAARHOVEN, Johannes Antonius;KLEINBECK, Kyle Robert;NUTTALL, Jeremy Peter;SPENCE, Patrick Lawrence~ 33:US ~31:63/301,588 ~32:21/01/2022

2024/05608 ~ Provisional ~54:SMART HARNESS ~71:INTUATE GROUP (PTY) LTD, 130 Terrace Road, Sebenza, South Africa ~72: GRUNDLINGH, Martin;JOHNSON, Craig;JONKER, Johan~

2024/05617 ~ Complete ~54:DEVICE FOR RECYCLING AND TREATING DEGRADABLE PLASTICS ~71:Hangzhou Normal University, No. 2318, Yuhangtang Road, Hangzhou City, Zhejiang Province, 310000, People's Republic of China ~72: Liu Zhiquan;Zhang Hangjun~ 33:CN ~31:202311216644X ~32:20/09/2023

2024/05621 ~ Complete ~54:PROCESS AND SYSTEM FOR LITHIUM PRODUCTION ~71:ICSIP PTY LTD, Level 5, 6-10 O'Connell Street, Australia ~72: HUNWICK, Richard James~ 33:AU ~31:2022900080 ~32:17/01/2022

2024/05624 ~ Complete ~54:MEDICINE FORMULA FOR TREATING ANEMIA ~71:Hunan Yueningkang Biotechnology Co.LTD, Baota Community, Tongshan Street, Ningyuan County, Yongzhou City, Hunan Province, People's Republic of China ~72: LIU Shifeng;OUYANG Yaoli~ 33:CN ~31:202211550808.8 ~32:05/12/2022

2024/05625 ~ Complete ~54:METHOD FOR THE TREATMENT OF FERROUS SCRAP COMPRISING MAGNETIC AND NONMAGNETIC MATERIALS AND ASSOCIATED PLANT ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Asier VICENTE ROJO;Philippe Marcel RUSSO~

2024/05631 ~ Complete ~54:SECURITY ELEMENT, CORRESPONDING ENGRAVED INTAGLIO PRINTING PLATE, AND METHODS AND DEVICES FOR PRODUCING, DECODING AND AUTHENTICATING SECURITY MARKING OF SAID SECURITY ELEMENT ~71:SICPA HOLDING SA, Avenue de Florissant 41, PRILLY 1008, SWITZERLAND, Switzerland ~72: DECOUX, Eric;DUCA, Nicola;LEFEBVRE , Olivier~ 33:EP ~31:21216149.1 ~32:20/12/2021

2024/05609 ~ Complete ~54:ORAL CAVITY CLEANING DEVICE FOR ELDERLY CARE ~71:Anhui University of Chinese Medicine, 350 Longzihu Road, Xinzhan District, Hefei (shaoquanhu campus), 230012, People's Republic of China ~72: CONG, Jin;GE, Jiejie;LI, Chunyan;PENG, Sijing;WANG, Xiang;WANG, Xiao;YUAN, Juan~ 33:CN ~31:202410180771.7 ~32:18/02/2024

2024/05643 ~ Complete ~54:2-SUBSTITUTED THIAZOLE HSD17B13 INHIBITORS AND USES THEREOF ~71:INIPHARM, INC., 500 108th Avenue NE, Suite 1100, United States of America ~72: ANANDAN, Sampath Kumar;DURAISWAMY, Athisayamani Jeyaraj;HSU, Heather Kay Webb;KUPPUSAMY, Bharathi Mohan;ODINGO, Joshua;TANTRY, Subramanyam Janardhan~ 33:IN ~31:202211004338 ~32:26/01/2022;33:US ~31:63/342,786 ~32:17/05/2022;33:US ~31:63/377,421 ~32:28/09/2022

2024/05632 ~ Complete ~54:METHOD FOR RECYCLING ELASTOMERS, RECYCLED ELASTOMERS, AND USE OF THE RECYCLED ELASTOMERS ~71:ALVAREZ, Bernardo Barreto, Av. Luiz Bonini, 128, Bariri, SÃO PAULO 17250-000, BRAZIL, Brazil;ALVAREZ, Bernardo Barreto, Av. Luiz Bonini, 128, Bariri, SÃO PAULO 17250-000, BRAZIL, Brazil;DE SOUZA, Luiz Felipe Rodomonte, Rua Marcos Lopes, N272, Apt 214, Torre East, Vila Nova Conceição, SÃO PAULO 04513-080, BRAZIL, Brazil ~72: ALVAREZ, Bernardo Barreto~ 33:BR ~31:BR1020210257164 ~32:20/12/2021

2024/05639 ~ Complete ~54:TRIAZOLONE DERIVATIVE SALT AS NEUTROPHIL ELASTASE INHIBITOR ~71:CHIESI FARMACEUTICI S.P.A., Via Palermo, 26/A, 43122, Parma, Italy ~72: FRANCESCO AMADEI;IRENE BASSANETTI~ 33:EP ~31:21217146.6 ~32:22/12/2021

2024/05644 ~ Complete ~54:COOLING COMPOUNDS AND COMPOSITIONS ~71:V. MANE FILS, 620, route de Grasse, France ~72: GRASSET, Fabien~ 33:EP ~31:22150584.5 ~32:07/01/2022

2024/05623 ~ Complete ~54:CAN END ~71:TOP CAP HOLDING GMBH, Untere Sparchen 50, Austria ~72: PIECH, Gregor, Anton~ 33:DE ~31:10 2023 109 429.7 ~32:14/04/2023

2024/05636 ~ Complete ~54:PREPARATION OF AN IMPROVED COMPOSITION FROM 1-CHLORO-3,3,3-TRIFLUOROPROPENE (HFO-1233ZD) HIGH BOILING RESIDUE BY-PRODUCT ~71:Honeywell International Inc., Intellectual Property Services Group, 855 S. Mint Street, CHARLOTTE 28202, NC, USA, United States of America ~72: CERRI, Gustavo;YAO, Jinhua~ 33:IB ~31:2022/073913 ~32:26/01/2022;33:US ~31:63/331,970 ~32:18/04/2022;33:US ~31:18/083,237 ~32:16/12/2022

2024/05611 ~ Complete ~54:A ONE-TO-MANY COMMUNICATION SERVICE SYSTEM AND METHOD BASED ON TCP PROTOCOL ~71:Hainan Medical University, No.3 Xueyuan Road, Longhua District, Haikou, Hainan, 570000, People's Republic of China ~72: Hao Xiu;Li Yin;Qinghui Sun;Wu Wang;Xuesong Liu;Yuan Wang;Yufei Lu~ 33:CN ~31:202410483343.1 ~32:22/04/2024

2024/05633 ~ Complete ~54:INTEGRATED PROCESS FOR MAKING 1-CHLORO-3,3,3-TRIFLUOROPROPENE (HCFO-1233ZD) FROM A MIXTURE OF HIGH-BOILING FLUORINATED COMPONENTS ~71:Honeywell International Inc., Intellectual Property Services Group, 855 S. Mint Street, CHARLOTTE 28202, NC, USA, United States of America ~72: CERRI, Gustavo;MCCLAINE, Jennifer W.;WANG, Haiyou;YAO, Jinhua~ 33:IB ~31:2022/073904 ~32:26/01/2022;33:US ~31:63/331,966 ~32:18/04/2022;33:US ~31:18/083,238 ~32:16/12/2022

2024/05641 ~ Complete ~54:RECOVERING RARE EARTH ELEMENTS ~71:AUSTRALIAN NATIONAL UNIVERSITY, Acton, Australian Capital Territory, 2601, Australia ~72: ANDREW BERRY~ 33:AU ~31:2022900105 ~32:20/01/2022

2024/05626 ~ Complete ~54:METHOD FOR ERECTING A TRANSPORTATION STRUCTURE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elena DI SILVESTRO;Giuseppe SELLITTO;Michaël GREMLING~

2024/05628 ~ Complete ~54:METHOD FOR MANUFACTURING A BATTERY OF TUBULAR SOLID OXIDE FUEL CELLS AND A BATTERY MANUFACTURED BY THE CLAIMED METHOD ~71:"TOPAZ" LIMITED LIABILITY COMPANY ("TOPAZ" LLC), territoriya Innovacionnogo centra "Skolkovo" Bolshoy bulvar, d., 42, str. 1, et. 1, pom. 334, rab. 54, Moscow, 121205, Russian Federation ~72: GVOZDKOV, Ilya Alekseevich;LEVCHENKO, Egor Aleksandrovich;SIVAK, Aleksandr Vladimirovich;TIMERBULATOV, Ruslan Sergeevich~ 33:RU ~31:2021139763 ~32:29/12/2021

2024/05610 ~ Complete ~54:MATRIX METALLOPROTEASE-CLEAVABLE AND SERINE OR CYSTEINE PROTEASE-CLEAVABLE SUBSTRATES AND METHODS OF USE THEREOF ~71:CYTOMX THERAPEUTICS, INC., 151 OYSTER POINT BOULEVARD, SUITE 400, SOUTH SAN FRANCISCO, CALIFORNIA 94080, USA, United States of America ~72: VASILJEVA, Olga;WINTER, Michael B.~ 33:US ~31:62/776,409 ~32:06/12/2018;33:US ~31:62/778,062 ~32:11/12/2018

2024/05640 ~ Complete ~54:HEAT-FREE MATERIAL DRYING SYSTEM, FILTER PRESS CONTROL METHOD AND FILTER PRESS ~71:ANYONG ENVIRO-TECH (JIANGSU) CO., LTD., No.69, Xingmao Road, Dingmao Street, Zhenjiang New Area, Zhenjiang, Jiangsu, 212009, People's Republic of China ~72: HEPING LIU;JIANFENG GU;JINGDI CAI;JUN WANG;XUEXING FANG~ 33:CN ~31:202210047102.3 ~32:17/01/2022;33:CN ~31:202221092799.8 ~32:09/05/2022;33:CN ~31:202221365762.8 ~32:02/06/2022

2024/05645 ~ Complete ~54:METHODS OF TREATMENT WITH CAR CELLS IN COMBINATION WITH S1P RECEPTOR MODULATORS ~71:PRIOTHERA SAS, 57 avenue du Général de Gaulle, France ~72: BOULCH, Morgane;BOUSSO, Philippe;DERTSCHNIG, Simone;OEHEN, Stephan~ 33:EP ~31:22305171.5 ~32:16/02/2022;33:EP ~31:22305781.1 ~32:27/05/2022

2024/05638 ~ Complete ~54:METHOD - INCLUDING ENERGY STORAGE METHOD - FOR SUPPLYING ENERGY IN THE VICINITY OF THE POINT OF CONSUMPTION USING REGENERATIVE ENERGY SOURCES, AND USE THEREOF ~71:EXCELLENCE - GESELLSCHAFT ZUR OBHUTSVERWALTUNG ERLESENER LIEGENSCHAFTEN UND VERMÖGENSANLAGEN MBH, Schweinfurter Weg 80, 60599 Frankfurt/ Main, Frankfurt, Germany ~72: HARAZIM, Wolfgang~ 33:DE ~31:10 2022 002 127.7 ~32:13/06/2022

2024/05615 ~ Complete ~54:ARTIFICIAL INTELLIGENCE-BASED SMART TOOTHBRUSH FOR ELDERLY PEOPLE ~71:Dr. Deepti Yadav, Professor, Department of Orthodontics and Dentofacial Orthopedics, Inderprastha Dental College & Hospital, Sahibabad, Ghaziabad, Uttar Pradesh, 201010, India;Dr. Farheen Mohammed, Associate Professor, CSE, Lords Institute of Eng. & Tech, Himayath sagar, Hyderabad, Telangana, 500086, India;Dr. Feroza D Mirajkar, Assistant Professor, Department of Electronics and Communication Engineering, Faculty of Engineering and Technology, Khaja Bandanawaz University, Kalaburagi, 585104, Karnataka, India;Dr. Preeti Upadhyay, Professor & HOD, Periodontology, Inderprastha Dental College & Hospital, Sahibabad, Ghaziabad, Uttar Pradesh, 201010, India;Dr. Rahul Paul, Director & Principal, Inderprastha Dental College & Hospital, Sahibabad, Ghaziabad, Uttar Pradesh, 201010, India;Dr. Tanmay Kasbe, Associate Professor, Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore, 452010, Madhya Pradesh, India;Prof. (Dr.) Sailesh Iyer, Dean, Rai School of Engineering, Rai University, Ahmedabad, 382260, Gujarat, India;Sathiya Ayyadurai, Full Time Research Scholar, Department of ECE,M.Kumarasamy College of Engineering, Thalavapalayam, Karur, 639113, Tamil Nadu, India ~72: Dr. Deepti Yadav;Dr. Farheen Mohammed;Dr. Feroza D Mirajkar;Dr. Preeti Upadhyay;Dr. Rahul Paul;Dr. Tanmay Kasbe;Prof. (Dr.) Sailesh Iyer;Sathiya Ayyadurai~

2024/05637 ~ Complete ~54:PACKAGES AND WRAPPER ~71:British American Tobacco (Investments) Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: ALLEN, Thomas;SEBESTENY-GYORE, Katalin~ 33:GB ~31:2200802.3 ~32:21/01/2022

2024/05614 ~ Complete ~54:A NANOFLUID-BASED WASTE HEAT RECOVERY SYSTEM FOR FLUE GAS FROM CATHODE MATERIAL PRODUCTION ~71:KUNMING METALLURGY COLLEGE, No. 388, Xuefu Road, Kunming City, Yunnan Province, People's Republic of China ~72: LEI MA;SONGYUAN ZHANG;YONGJIA LI;ZHIHONG YANG~ 33:CN ~31:2024106783259 ~32:29/05/2024

2024/05634 ~ Complete ~54:AEROSOL PROVISION SYSTEM ~71:Nicoventures Trading Limited, Globe House, 1 Water Street, LONDON WC2R 3LA, UNITED KINGDOM, United Kingdom ~72: BAKER, Darryl;BRUTON, Connor;CROSIER, Mark;KERSEY, Robert;ROSSER, Nicholas~ 33:GB ~31:2200775.1 ~32:21/01/2022

2024/05613 ~ Complete ~54:A PROCESS OF USING A ZNSO4 SOLUTION TO REMOVE IMPURITIES FROM THE LIQUID PHASE AND SIMULTANEOUSLY PREPARE LIQUID-STATE ELECTROLYTIC ADDITIVES ~71:KUNMING METALLURGY COLLEGE, No. 388, Xuefu Road, Kunming City, Yunnan Province, People's Republic of China ~72: JINLIANG ZHANG;SONGYUAN ZHANG;YONGJIA LI;ZHIHONG YANG~ 33:CN ~31:2024107415216 ~32:07/06/2024

2024/05627 ~ Complete ~54:SHUNT AND METHOD FOR TREATING GLAUCOMA ~71:LIQID MEDICAL PROPRIETARY LIMITED, 30 Eden Road, Walmer Estate, Cape Town 7925, SOUTH AFRICA, South Africa ~72: FISCHER, Joshua David;MCCLUNAN, Daemon Bruce~ 33:ZA ~31:2022/00672 ~32:14/01/2022

2024/05629 ~ Complete ~54:VEHICLE FLOOR PANEL REINFORCEMENT MEMBER ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Gilson DONYA;Joel WILSIUS~ 33:IB ~31:PCT/IB2022/052208 ~32:11/03/2022

2024/05619 ~ Complete ~54:MOLECULARLY IMPRINTED PROBE SOLID PHASE MICROEXTRACTION DEVICE ~71:Chuzhou University, No. 1, West Huifeng Road, Chuzhou City, Anhui Province, 239000, People's Republic of China ~72: Cheng Yuan;Lu Ziyang;Yang Miaomiao~

2024/05630 ~ Complete ~54:METHOD FOR ERECTING A TRANSPORTATION STRUCTURE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elena DI SILVESTRO;Giuseppe SELLITTO;Michaël GREMLING~

2024/05646 ~ Complete ~54:BENZIMIDAZOLONE DERIVED INHIBITORS OF BCL6 ~71:Cancer Research Technology Limited, 2 Redman Place, LONDON E20 1JQ, UNITED KINGDOM, United Kingdom;The Institute of Cancer Research: Royal Cancer Hospital, 123 Old Brompton Road, LONDON SW7 3RP, UNITED KINGDOM, United Kingdom ~72: BELLENIE, Benjamin Richard;CARTER, Michael Keith;CHEUNG, Kwai Ming Jack;DAVIS, Owen Alexander;HOELDER, Swen;INNOCENTI, Paolo;LLOYD, Matthew Garth;VARELA RODRÍGUEZ, Ana;WOODWARD, Hannah~ 33:GB ~31:1708502.8 ~32:26/05/2017;33:GB ~31:1806130.9 ~32:13/04/2018

2024/05616 ~ Complete ~54:ECONOMIC MANAGEMENT INFORMATION DISPLAY DEVICE BASED ON ARTIFICIAL INTELLIGENCE ~71:Xinyu University, No. 2666, Yangguang Road, Xinyu High-Tech Development Zone, Xinyu City, Jiangxi Province, 338000, People's Republic of China ~72: Jiang Xunyan;Wang Maoyang;Yi Xianghong;Zhang Yi~

2024/05620 ~ Complete ~54:SAMPLE ANTI-COLLISION PACKING BOX DESIGNED FOR HOUSEHOLD PRODUCTS ~71:Chuzhou University, No. 2, West Langya Road, Chuzhou City, Anhui Province, 239000, People's Republic of China ~72: Huang Menghui~

2024/05642 ~ Complete ~54:PHARMACEUTICAL COMPOSITIONS COMPRISING ANTI-TISSUE FACTOR ANTIBODY-DRUG CONJUGATES ~71:EXELIXIS, INC., 1851 Harbor Bay Parkway, Alameda, California, 94502, United States of America ~72: HUI LI;MARK REYNOLDS;RAJIV MAHAJAN~ 33:US ~31:63/301,994 ~32:21/01/2022

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2024/05667 ~ Complete ~54:PROCESS FOR THE PRODUCTION OF MICROFIBRILLATED CELLULOSE FROM HIGH-YIELD KRAFT PULP, MICROFIBRILLATED CELLULOSE OBTAINABLE BY SAID PROCESS AND KRAFT PULP AND PAPER PRODUCTS COMPRISING SAID MICROFIBRILLATED CELLULOSE ~71:RAIZ - INSTITUTO DE INVESTIGAÇÃO DA FLORESTA E PAPEL, Quinta De S. Francisco Rua José Estevão (EN 230-1), Portugal ~72: ALVES RAMOS RODRIGUES, Ricardo Jorge;MARTINS LOURENÇO, Ana Filipa;RAMOS DOS SANTOS, Bruna Filipa~ 33:PT ~31:PT117870 ~32:23/03/2022

2024/05673 ~ Complete ~54:A/M/X CRYSTALLINE MATERIAL, PHOTOVOLTAIC DEVICE, AND PREPARATION METHOD THEREFOR ~71:Contemporary Amperex Technology Co., Limited, No.2 Xingang Road, Zhangwan Town, Jiaocheng District, NINGDE CITY 352100, FUJIAN, CHINA (P.R.C.), People's Republic of China ~72: CHEN, Guodong;GUO, Yongsheng;LIU, Zhaohui;OUYANG, Chuying;SU, Shuojian;WANG, Yandong;WANG, Yanfen~

2024/05664 ~ Complete ~54:SINGLE-DOMAIN HIGH AFFINITY ANTIBODIES AND METHODS OF USE THEREOF ~71:RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, 83 SOMERSET STREET, NEW BRUNSWICK, NEW JERSEY 08901, USA, United States of America ~72: HATEFI, Arash;NIKKHOI, Shahryar, Khoshtinat~ 33:US ~31:63/294,664 ~32:29/12/2021;33:US ~31:63/357,724 ~32:01/07/2022

2024/05674 ~ Complete ~54:LOW-CARBON IRONMAKING METHOD BY DIRECTLY REDUCING IN A SUSPENDED STATE AND SMELTING-SEPARATING IN A SIDE-BLOWN FURNACE ~71:CHINA ENFI ENGINEERING CORPORATION, 12 Fuxing Road, Haidian District, 100038, Beijing, People's Republic of China;CHINA NONFERROUS ENGINEERING CO., LTD., 12 Fuxing Road, Haidian District, 100038, Beijing, People's Republic of China ~72: XINGNAN WANG;XUEGANG CHEN;YAGUANG GUO;ZHONGYE PEI~ 33:CN ~31:202310223655.4 ~32:09/03/2023

2024/05655 ~ Complete ~54:PROCESS FOR SMELTING CHROMITE AND SYSTEM THEREOF ~71:CHINA ENFI ENGINEERING CORPORATION, 12 Fuxing Road, Haidian District, 100038, Beijing, People's Republic of China;CHINA NONFERROUS ENGINEERING CO., LTD., 12 Fuxing Road, Haidian District, 100038, Beijing, People's Republic of China ~72: CHONG LI;GUOLI XU;MIN LI;MU CUI;SHUCHAO LI;XIAODAN WANG;XIAOFENG XU;ZHENZHEN SONG~ 33:CN ~31:202311412069.0 ~32:27/10/2023;33:CN ~31:202311500284.6 ~32:10/11/2023

2024/05660 ~ Complete ~54:APPARATUS FOR DISCHARGING CONTENTS OF A CONTAINER ~71:GOSSAMER MACHINERY (PTY) LTD, 51 B Lourens Street, South Africa ~72: JANSE VAN RENSBURG, Rudolf Georg~

2024/05669 ~ Complete ~54:HEATING METHOD OF A SEMI-FINISHED METAL PRODUCTS ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Akshay BANSAL;Benjamin BOISSIERE;Gérard GRIFFAY~ 33:IB ~31:PCT/IB2022/053816 ~32:25/04/2022

2024/05672 ~ Complete ~54:FISCHER-TROPSCH CATALYST ACTIVATION ~71:BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom;Johnson Matthey Davy Technologies Limited, 5th Floor, 25 Farringdon Street, LONDON EC4A 4AB, UNITED KINGDOM, United Kingdom ~72: BAKER, Rob;CLARKSON, Jay Simon;COE, Andrew James;MERCER, Richard J.;PATERSON, Alexander James;WEST, John~ 33:EP ~31:21217621.8 ~32:23/12/2021

2024/05652 ~ Complete ~54:HEAT TREATMENT PROCESS FOR METAL WORKPIECE ~71:Harbin Xinhua Aviation Industry Co., Ltd., Gongnong Village, Pingfang Town, Pingfang District, Harbin City, Heilongjiang, 150066, People's Republic of China ~72: KANG, Geng;LAPATSIN, Siarhei;SU, Lankui;SUN, Daxin;TANG, Jiachao;ZHURAVKOV, Michael~

2024/05671 ~ Complete ~54:AUTOMATED EXTERNAL DEFIBRILLATOR ~71:CellAED Life Saver Pty Ltd, 1 Lesley Close, Elanora Heights, SYDNEY 2101, NEW SOUTH WALES, AUSTRALIA, Australia ~72: CASEY, Donovan Lachlan;TEBER, Erol Erdogan~ 33:AU ~31:2021904260 ~32:23/12/2021

2024/05680 ~ Complete ~54:METHODS AND SYSTEMS FOR PERFORMING DATABASE OPERATIONS ~71:XERO LIMITED, 19-23 Taranaki Street, New Zealand ~72: MCFAULL, Cassandra;THORNBURROW, Geoff~ 33:AU ~31:2022900112 ~32:21/01/2022

2024/05648 ~ Complete ~54:A HEMODIALYSIS ARTERIOVENOUS ARTIFICIAL ENDOVASCULAR FISTULA VASCULAR COMPRESSION HEMOSTAT ~71:The First Affiliated Hospital of Shihezi University, No. 107, Bei Er Road, Shihezi City, Xinjiang Uygur Autonomous Region, People's Republic of China ~72: YANG Xiaoping;ZHANG Chunjiang;ZHANG Guorui;ZHANG Jinping;ZHAO Dan~

2024/05656 ~ Complete ~54:MIST INHALER DEVICES ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~ 33:US ~31:17/122,025 ~32:15/12/2020;33:US ~31:17/220,189 ~32:01/04/2021

2024/05658 ~ Complete ~54:NOBLE METAL CATALYSTS AND PROCESSES FOR REFORMING OF METHANE AND OTHER HYDROCARBONS ~71:GAS TECHNOLOGY INSTITUTE, 1700 S. Mount Prospect Rd. Des Plaines, Illinois, 60018, United States of America ~72: JIM WANGEROW;MARTIN B LINCK;PEDRO ORTIZ-TORAL;TERRY L MARKER~

2024/05650 ~ Complete ~54:PERSONALISED CARD AND SYSTEM FOR DESIGNING SAME ~71:MABASA, Sicelo Lawrence, 14 GOOSEN STREET, THE ORCHARDS, PRETORIA, GAUTENG, South Africa;VUMA,

Tshiamo Ashley, 14 GOOSEN STREET, THE ORCHARDS, PRETORIA, GAUTENG, South Africa ~72: MABASA, Sicelo Lawrence;VUMA, Tshiamo Ashley~ 33:ZA ~31:2023/05671 ~32:26/05/2023

2024/05662 ~ Complete ~54:PASSENGER RADIAL TIRE FORMING MACHINE AND CASE THEREOF ~71:MESNAC CO., LTD., Room 202, Building 1, Zone B, International Blue Bay Creative Park, No. 31 Xinye Road, HighTech Zone Qingdao,, People's Republic of China;QINGDAO MESNAC MACHINERY & ELECTRIC ENGINEERING CO., LTD., Yingjiu Road, South of Industry Zone Road, Jiaodong Street, Jiaozhou Qingdao,, People's Republic of China ~72: CHEN, Yaxiong;SUN, Fengxin;YANG, Huili~ 33:CN ~31:202123260108.9 ~32:22/12/2021

2024/05675 ~ Complete ~54:EXPANSION JOINT FILLING MATERIAL AND PREPARATION METHOD THEREOF ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9, Chunxiu Road, Dongcheng District, Beijing 100027, People's Republic of China ~72: QIAOLIANG TANG~ 33:CN ~31:2023106055986 ~32:26/05/2023

2024/05647 ~ Provisional ~54:TECHNOT PROCUREMENT E-SUBMISSION ~71:Narius William Tshepo Ngwatle, 1717 B, South Africa ~72: Narius William Tshepo Ngwatle~

2024/05649 ~ Complete ~54:HUMANIZED ANTIBODIES TO TNF-LIKE LIGAND 1A (TL1A) AND USES THEREOF ~71:CEDARS-SINAI MEDICAL CENTER, 8700 Beverly Blvd., United States of America;PROMETHEUS BIOSCIENCES, INC., 9410 Carroll Park Drive, United States of America ~72: BILSBOROUGH, Janine;DICKERSON, Cindy T.;HENKLE, Bradley;MCNEELEY, Patricia;REISSMAN, Matthew;ROJAS, Rafael;TARGAN, Stephan R.;WATKINS, Jeffry D.~ 33:US ~31:62/925,736 ~32:24/10/2019

2024/05670 ~ Complete ~54:FISCHER-TROPSCH SYNTHESIS STARTUP ~71:BP P.L.C., 1 St. James's Square, LONDON SW1Y 4PD, UNITED KINGDOM, United Kingdom;Johnson Matthey Davy Technologies Limited, 5th Floor, 25 Farringdon Street, LONDON EC4A 4AB, UNITED KINGDOM, United Kingdom ~72: CLARKSON, Jay Simon;COE, Andrew James;PATERSON, Alexander James~ 33:EP ~31:21217615.0 ~32:23/12/2021

2024/05681 ~ Complete ~54:COMPOSITIONS AND METHODS FOR CANCER IMMUNOTHERAPY ~71:MURAL ONCOLOGY, INC., 852 Winter Street, United States of America ~72: DALAL, Rita;REGE, Bhaskar;REGE, Jessicca;SUN, Lei~ 33:US ~31:63/309,199 ~32:11/02/2022

2024/05665 ~ Complete ~54:FOLLOW-UP CONTROL METHOD AND SYSTEM FOR FORMING MACHINE ~71:MESNAC CO., LTD., Room 202, Building 1, Zone B, International Blue Bay Creative Park, No. 31 Xinye Road, HighTech Zone Qingdao,, People's Republic of China;QINGDAO MESNAC MACHINERY & ELECTRIC ENGINEERING CO., LTD, Yingjiu Road, South of Industry Zone Road, Jiaodong Street, Jiaozhou Qingdao,, People's Republic of China ~72: CHEN, Yaxiong;HOU, Dongyun;LIU, Yunfei;XIE, Gang;YANG, Huili~ 33:CN ~31:202111585297.9 ~32:22/12/2021

2024/05651 ~ Complete ~54:APPARATUS FOR ACUPUNCTURE, TUINA, MAGNETIC THERAPY, AND MASSAGE ~71:Nanjing University of Chinese Medicine, No. 282 Hanzhong Road, Nanjing, Jiangsu Province, People's Republic of China ~72: CHEN Zhewei;FANG Yi;GAO Zishan;GONG Jiaxuan;WANG Chun;WU Yunchuan;XIA Youbing;XIONG Ying~

2024/05654 ~ Complete ~54:STABLE GRANISETRON HYDROCHLORIDE TABLET AND PREPARATION METHOD THEREFOR ~71:Fuan Pharmaceutical Group Ningbo Tianheng Pharmaceutical Co., Ltd., 366 Anping Road, Zhaobaoshan Street, Zhenhai District, Ningbo City, Zhejiang Province, People's Republic of China ~72: Benkai Qin;Hangyu Zhao;Kaiwei Luo;Lin Qu;Menglong Dai;Wei Wang;Yaqing Liu;Yonghua Yu;Yuchen Su;Zebei Liu~ 33:CN ~31:2023116207097 ~32:30/11/2023

2024/05659 ~ Complete ~54:PROCESSES AND SYSTEMS FOR REFORMING OF METHANE AND LIGHT HYDROCARBONS TO LIQUID HYDROCARBON FUELS ~71:GAS TECHNOLOGY INSTITUTE, 1700 S. Mount Prospect Rd. Des Plaines, Illinois, 60018, United States of America ~72: JIM WANGEROW;MARTIN B LINCK;PEDRO ORTIZ-TORAL;TERRY L MARKER~

2024/05676 ~ Complete ~54:CONSTRUCTION METHOD OF CAST-IN-PLACE PILE ~71:CHINA HARBOUR ENGINEERING COMPANY LTD., No. 9,Chunxiu Road, Dongcheng District, Beijing, 100027, People's Republic of China ~72: YEQING YUE~ 33:CN ~31:2023112241135 ~32:21/09/2023

2024/05678 ~ Complete ~54:SIGNALING GENERAL CONSTRAINTS INFORMATION FOR 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;JONATHAN GAN;YUE YU~ 33:US ~31:63/266,615 ~32:10/01/2022;33:US ~31:63/266,616 ~32:10/01/2022;33:US ~31:63/266,765 ~32:13/01/2022

2024/05682 ~ Complete ~54:INHIBITORS OF CDK4/6 KINASE ~71:KINNATE BIOPHARMA INC., 12830 El Camino Real, Suite 150, United States of America ~72: COX, Jason M.;KANIA, Robert S.;KANOUNI, Toufike;OUYANG, Xiaohu S.;TYHONAS, John~ 33:US ~31:63/302,973 ~32:25/01/2022;33:US ~31:63/342,432 ~32:16/05/2022

2024/05653 ~ Complete ~54:DEVICE AND METHOD FOR PREPARING GRAPHENE FILMS ~71:Jiangsu Xingteliang Technology Co., Ltd, No.8 Donglai Dongli Road, Yang Shezhen, Zhangjiagang City, Suzhou City, Jiangsu Province, People's Republic of China ~72: Zhoujie;Zhouzhengxing~

2024/05661 ~ Complete ~54:PREPARED ALCOHOLIC BEVERAGE AND SYRUP FOR PREPARING SAME ~71:AMONÉ LOUISE VAN DER MERWE, 41 Stonewood Drive, Stonewood Estate, Kraaifontein, Cape Town, 7069, South Africa ~72: AMONÉ LOUISE VAN DER MERWE~

2024/05663 ~ Complete ~54:CONTROL METHOD AND CONTROL SYSTEM FOR TIRE FORMING MACHINE, AND READABLE STORAGE MEDIUM ~71:MESNAC CO., LTD., Room 202, Building 1, Zone B, International Blue Bay Creative Park, No. 31 Xinye Road, HighTech Zone Qingdao,, People's Republic of China;QINGDAO MESNAC MACHINERY & ELECTRIC ENGINEERING CO., LTD., Yingjiu Road, South of Industry Zone Road, Jiaodong Street, Jiaozhou Qingdao,, People's Republic of China ~72: CHEN, Yaxiong;HOU, Dongyun;LIU, Yunfei;XIE, Gang;YANG, Huili~ 33:CN ~31:202111585277.1 ~32:22/12/2021

2024/05666 ~ Complete ~54:KRAFTLINER PAPER MADE FROM MECHANICAL PULP AND CHEMICAL PULP AND PAPER PRODUCTS CONTAINING SAME ~71:RAIZ - INSTITUTO DE INVESTIGAÇÃO DA FLORESTA E PAPEL, Quinta De S. Francisco Rua José Estevão (EN 230-1), Portugal ~72: ALMEIDA FERREIRA, Catarina Isabel;DE OLIVEIRA RODRIGUES PINTO, Paula Cristina;RAMOS DOS SANTOS, Bruna Filipa;RICARDO JORGE, Alves Ramos Rodrigues~ 33:PT ~31:PT117752 ~32:24/01/2022

2024/05668 ~ Complete ~54:TWO-STAGE FEEDING SYSTEM, TWO-STAGE BUILDING MACHINE, UNI-STAGE BUILDING MACHINE, AND FEEDING METHOD ~71:MESNAC CO., LTD., Room 202, Building 1, Zone B, International Blue Bay Creative Park, No. 31 Xinye Road, HighTech Zone Qingdao,, People's Republic of China;QINGDAO MESNAC MACHINERY & ELECTRIC ENGINEERING CO., LTD., Yingjiu Road, South of Industry Zone Road, Jiaodong Street, Jiaozhou Qingdao,, People's Republic of China ~72: HOU, Dongyun;LIU, Zhibin;QI, Kun;YANG, Huili~ 33:CN ~31:202111585297.9 ~32:22/12/2021

2024/05677 ~ Complete ~54:A TWO-STEP PROCESS AND SYSTEM FOR PREPARING A LIQUID OAT BASE OR DRINK FROM AN OAT DERIVED MATERIAL ~71:OATLY AB, Box 588, 201 25, MALMÖ, Sweden ~72: DAVID HELLBORG;JOAKIM BJUNÖ;KARIN PETERSSON;SOFIA EHLDE~

2024/05679 ~ Complete ~54:HEAT EXTRACTION SYSTEM AND METHOD FOR EXTREME ENVIRONMENTS ~71:CGG SERVICES SAS, 27, Avenue Carnot, 91300, Massy, France ~72: ELISHA DRUMM;MARIANE PETER-BORIE;ROBERT CROSSLEY~ 33:FR ~31:FR2308348 ~32:01/08/2023

2024/05657 ~ Complete ~54:A NICOTINE DELIVERY DEVICE ~71:SHAHEEN INNOVATIONS HOLDING LIMITED, Unit 2, Level 7, Al Sila Tower, Abu Dhabi Global Market Square, Al Maryah Island, Abu Dhabi, United Arab Emirates ~72: CLEMENT LAMOUREUX;IMAD LAHOUD;JEFF MACHOVEC;MOHAMMED ALSHAIBA SALEH GHANNAM ALMAZROUEI;SAJID BHATTI~ 33:US ~31:17/122,025 ~32:15/12/2020;33:US ~31:17/220,189 ~32:01/04/2021

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2024/05694 ~ Complete ~54:GENERAL MOVEMENTS ASSESSMENT SYSTEM FOR INFANTS BASED ON SENSING MOTION MONITORING ~71:The First Affiliated Hospital of Bengbu Medical College, No. 287, Changhuai Road, Longzihu District, Bengbu City, Anhui Province, People's Republic of China ~72: CAI Ronglan;YANG Lijuan;ZHU Ming~

2024/05684 ~ Provisional ~54:PROGRAMMABLE DEVICE ~71:Tylo SCOTT, Hoogkar 12, Netherlands ~72: Tylo SCOTT~

2024/05688 ~ Complete ~54:APPARATUSES FOR SOIL AND SEED MONITORING ~71:PRECISION PLANTING LLC, 23207 Townline Road, Tremont, United States of America ~72: HODEL, Jeremy;STRNAD, Michael~ 33:US ~31:62/962,795 ~32:17/01/2020

2024/05691 ~ Complete ~54:A RECORDING DEVICE BASED ON THE REAL-TIME IMAGING EFFECT OF AR GLASSES ~71:Xingchen Lu, No.3 Wenyuan Road, Xianlin University Town, Qixia District, Nanjing City, Jiangsu Province, People's Republic of China;Xuan Zhang, No.3 Wenyuan Road, Xianlin University Town, Qixia District, Nanjing City, Jiangsu Province, People's Republic of China;Yuxiao Gu, No.3 Wenyuan Road, Xianlin University Town, Qixia District, Nanjing City, Jiangsu Province, People's Republic of China ~72: Xingchen Lu;Xuan Zhang;Yuxiao Gu~

2024/05707 ~ Complete ~54:ANTI-B7-H3 COMPOUNDS AND METHODS OF USE ~71:Regents of the University of Minnesota, 600 McNamara Alumni Center, 200 Oak Street SE, MINNEAPOLIS 55455-2020 , MN, USA, United States of America ~72: HACKEL, Benjamin;HARTHORN, Abbigael~ 33:US ~31:63/302,290 ~32:24/01/2022

2024/05703 ~ Complete ~54:METHODS OF TREATMENT FOR CYSTIC FIBROSIS ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: BARTLOMIEJ BOREK;DAVID RHEE;JENNIFER LU;JULIE LATERREUR;VALENTIN PRIETO CENTURION~ 33:US ~31:63/306,344 ~32:03/02/2022

2024/05708 ~ Complete ~54:ANTI-B7-H3 COMPOUNDS AND METHODS OF USE ~71:Regents of the University of Minnesota, 600 McNamara Alumni Center, 200 Oak Street SE, MINNEAPOLIS 55455-2020 , MN, USA, United States of America ~72: HACKEL, Benjamin;HARTHORN, Abbigael~ 33:US ~31:63/302,296 ~32:24/01/2022

2024/05686 ~ Provisional ~54:A PURCHASING AID ~71:SITHOLE, Simphiwe, Eric, 120 LIBRARY GARDENS, 51 HELEN JOSEPH STREET, MARSHALLTOWN, JOHANNESBURG, 2001, SOUTH AFRICA, South Africa ~72: SITHOLE, Simphiwe, Eric~

2024/05701 ~ Complete ~54:DISTRIBUTION MANIFOLD ~71:WEIR MINERALS NETHERLANDS B.V., Egtenrayseweg 9, Netherlands ~72: STROEKEN, Johannes;UMMENTHUN, Frank~ 33:GB ~31:2202050.7 ~32:16/02/2022

2024/05706 ~ Complete ~54:ELLIPTIC CURVE ARITHMETIC IN SCRIPT ~71:nChain Licensing AG, Grafenauweg 6, ZUG 6300, SWITZERLAND, Switzerland ~72: LARRAIA, Enrique~ 33:GB ~31:2200993.0 ~32:26/01/2022

2024/05685 ~ Provisional ~54:NON-LINEAR REACTOR ~71:Jacobus Johannes van der Merwe, 1060 Pierneef Street, Villieria, South Africa ~72: Jacobus Johannes van der Merwe~

2024/05695 ~ Complete ~54:NOVEL CONSTRUCTS FOR CHIMERIC ANTIGEN RECEPTORS ~71:Carisma Therapeutics Inc., 3675 Market Street, Ste 200, PHILADELPHIA 19104, PA, USA, United States of America ~72: ANDERSON, Nicholas;KLICHINSKY, Michael;MINUTOLO, Nicholas~ 33:US ~31:63/034,873 ~32:04/06/2020;33:US ~31:63/044,934 ~32:26/06/2020;33:US ~31:63/082,584 ~32:24/09/2020

2024/05687 ~ Complete ~54:GROWTH PROMOTING RHIZOBACTERIA COMPOUND MICROBIAL AGENT AS WELL AS PREPARATION METHOD AND APPLICATION THEREOF ~71:Yancheng Teachers University, No. 2, Xiwang Avenue South Road, Tinghu District, Yancheng City, Jiangsu Province, 224007, People's Republic of China;Yancheng Tinghu District Dezerui Biotechnology Co., Ltd., Room 407 (6), Laboratory Building 72, Tongyu Campus, Yancheng Teachers University, No. 50, Kaifang Avenue Middle Road, Tinghu District, Yancheng City, Jiangsu Province, 224005, People's Republic of China ~72: HONG, Jian;KANG, Yijun;SHEN, Min;SUN, Tao;WANG, Huanli;WU, Limeng;XIAO, Jiaxin;XU, Yang;YOU, Ruiqiang~ 33:CN ~31:202410300123.0 ~32:15/03/2024

2024/05693 ~ Complete ~54:ANTI-COLLAPSE DEVICE AND METHOD FOR GROUND DIRECTIONAL DRILLING IN FAULT FRACTURE AREA ~71:Beijing China Coal Mine Engineering Co.,Ltd., Room 400-453, Floor 4, Building 64, No.5 Qingniangou Road, Chaoyang District, Beijing, 100013, People's Republic of China;CHINA UNIVERSITY MINING AND TECHNOLOGY-BEIJING, No. Ding-11 Xueyuan Road, Haidian District, Beijing, 100083, People's Republic of China ~72: AN, Xuliang;CHEN, Dongdong;DENG, Yun;DING, Zhenyu;GAO, Xiaogeng;HE, Hongwei;HE, Wen;LI, Shengsheng;WANG, Zhiqiang;XIANG, Junxing;XIE, Fuxing;XIE, Tengda;YANG, Hongjun;YANG, Xiangyu;YANG, Xue;ZHANG, Zhifeng;ZHANG, Zhixuan;ZHAO, Wenkang~

2024/05697 ~ Complete ~54:CROP INPUT APPLICATION APPARATUS, SYSTEMS AND METHODS ~71:MA INDUSTRIES, LLC, 180 Detroit Avenue, Morton, IL, United States of America ~72: ABERLE, Reid;BAURER, Phil;HESTERBERG, Connor;KOCH, Justin;MOORE, Nowell;NAFZIGER, Tyler;NUEST, Steven;SAUDER, Gregg;SAUDER, Talon;SAUDER, Timothy;WAREMBURG, Kyle;WELTE, Jonathan~ 33:US ~31:63/266,563 ~32:07/01/2022;33:US ~31:63/373,707 ~32:27/08/2022

2024/05702 ~ Complete ~54:DOWN FEATHER SEPARATION PRODUCTION PROCESS ~71:LU'AN FENGYU ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD., University of Science and Technology Park, Centralized Demonstration Park, Lu'an, Anhui, 237000, People's Republic of China;THE SEA FEATHER LIMITED COMPANY OF LU'AN, Gaocheng East Road, Economic And Technological Development Zone, Lu'an, Anhui, 237000, People's Republic of China;WEST ANHUI UNIVERSITY, The West of Yunlu Bridge, Lu'an, Anhui, 237000, People's Republic of China ~72: LI, Lingang;QIN, Yu;YU, Jingui;YU, Xueyong;ZHU, Yelong~ 33:CN ~31:202111614028.0 ~32:27/12/2021

2024/05690 ~ Complete ~54:AN ARTIFICIAL INTELLIGENCE IMAGE RECOGNITION SYSTEM BASED ON ADAPTIVE MULTIMODAL FUSION AND REINFORCEMENT LEARNING STRATEGY ~71:Xingchen Lu, No.3 Wenyuan Road, Xianlin University Town, Qixia District, Nanjing City, Jiangsu Province, People's Republic of China;Xuan Zhang, No.3 Wenyuan Road, Xianlin University Town, Qixia District, Nanjing City, Jiangsu Province, People's Republic of China;Yuxiao Gu, No.3 Wenyuan Road, Xianlin University Town, Qixia District, Nanjing City, Jiangsu Province, People's Republic of China ~72: Xingchen Lu;Xuan Zhang;Yuxiao Gu~

2024/05692 ~ Complete ~54:AN IMPROVED ROOFTOP TENT ASSEMBLY FOR VEHICLES ~71:Sam May, 91 Maitland Road, Minlaton, 5575, Australia ~72: Sam May~ 33:AU ~31:2023902348 ~32:24/07/2023

2024/05698 ~ Complete ~54:A TRIPLE DECK VIBRATORY SCREEN AND A METHOD OF USING A TRIPLE DECK VIBRATORY SCREEN ~71:MUNTON, Timothy, John, 14 KILLARNEY VILLAGE, 5TH STREET, KILLARNEY, JOHANNESBURG, 2193, South Africa ~72: MUNTON, Timothy, John~ 33:ZA ~31:2022/01259 ~32:27/01/2022

2024/05699 ~ Complete ~54:ENGINEERED EXOSOME FOR PROMOTING HEALING OF DIABETIC WOUNDS,AND PREPARATION METHOD AND APPLICATION THEREOF ~71:CHINESE PLA GENERAL HOSPITAL, No. 28 Fuxing Road, Haidian District,, Beijing, 100853, People's Republic of China ~72: CHU, Ziqiang;FU, Xiaobing;MA, Kui;ZHANG, Cuiping~ 33:CN ~31:202310354160.5 ~32:04/04/2023

2024/05705 ~ Complete ~54:METHODS FOR SYNTHESIZING 1H-FURO[3,2-B]IMIDAZO[4,5-D]PYRIDINE COMPOUNDS ~71:Hangzhou Highlightll Pharmaceutical Co., Ltd, RM 301/302, BLDG 4, Hexiang Science & Technology Center, Qiantang District, HANGZHOU 310018, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: DUAN, Yaya;HUANG, Junmin;LI, Shuangjiang;LIANG, Congxin;SHI, Guoqiang;YAN, Pucha~ 33:CN ~31:202111658903.5 ~32:30/12/2021

2024/05689 ~ Complete ~54:PART DETECTION DEVICE ~71:Harbin Xinhua Aviation Industry Co., Ltd., Gongnong Village, Pingfang Town, Pingfang District, Harbin City, Heilongjiang, 150066, People's Republic of China ~72: KANG, Geng;LAPATSIN, Siarhei;SU, Lankui;SUN, Daxin;TANG, Jiachao;ZHURAVKOV, Michael~

2024/05696 ~ Complete ~54:PERMISSION-BASED CONTROLLING NETWORK ARCHITECTURES AND SYSTEMS, HAVING CELLULAR NETWORK COMPONENTS AND ELEMENTS MODIFIED TO HOST PERMISSION CONTROLLING SCHEMAS DESIGNED TO FACILITATES ELECTRONIC PEER-TO-PEER COMMUNICATION SESSIONS BETWEEN MEMBER COMPUTING DEVICES BASED ON CELLULAR COMMUNICATION SIGNALS IN ACCORDANCE WITH NOVEL CELLULAR COMMUNICATIONS PROTOCOLS, AND METHODS FOR USE THEREOF ~71:STARKEYS LLC, 1732 1st Avenue, # 21468, New York, NY 10128-5177, United States of America ~72: KAHN, Ari~ 33:US ~31:17/567,044 ~32:31/12/2021;33:US ~31:17/567,051 ~32:31/12/2021;33:US ~31:17/750,389 ~32:22/05/2022;33:US ~31:17/750,392 ~32:22/05/2022;33:US ~31:17/829,145 ~32:31/05/2022;33:US ~31:17/862,402 ~32:11/07/2022

2024/05700 ~ Complete ~54:AUTOPHAGOSOME, AND EXTRACTION METHOD AND APPLICATION THEREOF ~71:CHINESE PLA GENERAL HOSPITAL, No. 28 Fuxing Road, Haidian District,, Beijing, 100853, People's Republic of China ~72: CUI, Shengnan;FU, Xiaobing;LIU, Xi;TIAN, Guanglei;ZHANG, Cuiping~ 33:CN ~31:202310779644.4 ~32:29/06/2023

2024/05704 ~ Complete ~54:DRUG DELIVERY DEVICE SAFETY SYSTEM ~71:REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: ANDREW DUMONT;BRYAN GRYGUS;DANIEL HALBIG;PAIGE WAECHTER;PARKER VALDEZ;SINDHUJA KUCHIBHATLA;TREVOR LANGLEY~ 33:US ~31:63/302,989 ~32:25/01/2022;33:US ~31:63/305,763 ~32:02/02/2022;33:US ~31:63/480,904 ~32:20/01/2023

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2024/05711 ~ Complete ~54:SAFE CONSTRUCTION METHOD FOR PREFABRICATED EXTERNAL FLUE OF SUPER HIGH-RISE BUILDING ~71:THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, No.0169 Qianhai Road, Nanshan Subdistrict, Nanshan District, Shenzhen, 518000, People's Republic of China ~72: HUANG, Shengwei;LI, Zhengdao;LIU, Guoping;LIU, Haojie;LIU, Jianyi;MA, Teng;WEN, Changhong;ZHANG, Jinsheng;ZHANG, Yunpeng;ZOU, Liu~

2024/05736 ~ Complete ~54:AZAINDOLE DERIVATIVES AND THEIR USE AS ERK KINASE INHIBITORS ~71:AGV DISCOVERY, 2196 Boulevard de la Lironde Parc Agropolis II Bât 2, 34980, Montferrier-sur-Lez, France;CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, 3, rue Michel Ange, 75016, PARIS, France;INSERM (INSTITUT NATIONAL DE LA SANTÉ ET DE LA RECHERCHE MÉDICALE), 101, rue de, Tolbiac, 75013, Paris, France;UNIVERSITE DE MONTPELLIER, 163 rue Auguste Broussonnet, 34090, Montpellier, France ~72: AURÉLIEN BIECHY;CÉDRIC BORIES;JEAN-FRANÇOIS GUICHOU;LOÏC MATHIEU;MURIEL GELIN~ 33:EP ~31:22305031.1 ~32:14/01/2022

2024/05735 ~ Complete ~54:METHOD AND DEVICE FOR NON-DESTRUCTIVELY TESTING A CONNECTION POINT IN A COMPONENT ASSEMBLY ~71:EJOT SE & CO. KG, Astenbergstrasse 21, Germany ~72: MAIWALD, Mario;MUELLER, Toni;WERKMEISTER, Marco~ 33:DE ~31:10 2022 102 940.9 ~32:08/02/2022

2024/05738 ~ Complete ~54:METHOD FOR PRODUCING AN INORGANIC FILTRATION MEDIUM THROUGH INTERMESHING AND OBTAINED MEMBRANE ~71:TECHNOLOGIES AVANCEES ET MEMBRANES INDUSTRIELLES, ZA Les Laurons, 26110, Nyons, France ~72: JÉRÔME ANQUETIL;PHILIPPE LESCOCHE~ 33:FR ~31:FR2114668 ~32:30/12/2021

2024/05717 ~ Complete ~54:AUTHORIZATION METHOD AND SYSTEM BASED ON PAYMENT METHOD OF ENERGY STORAGE POWER SUPPLY EQUIPMENT ~71:Dongguan YOHOO Electronic Technology Co., Ltd., A Building No.12, Xincheng Road, Zhenxing District, Shangsha Community, Changan Town, Dongguan, Guangdong, People's Republic of China ~72: Bisong GUO;Jiangyu HU;Kai CAO;Wenyi PENG;Yang LUO~

2024/05726 ~ Complete ~54:PROTEIN TYROSINE PHOSPHATASE INHIBITORS AND USES THEREOF ~71:NERIO THERAPEUTICS, INC., 11099 North Torrey Pines Road, Suite 290, United States of America ~72: DURON, Sergio G.;ROLAND, Jason~ 33:US ~31:63/305,789 ~32:02/02/2022

2024/05739 ~ Complete ~54:GJB2 REGULATORY ELEMENTS AND USES THEREOF ~71:DECIBEL THERAPEUTICS, INC., 1325 Boylston Street Suite 500, Boston, Massachusetts, 02215, United States of America;REGENERON PHARMACEUTICALS, INC., 777 Old Saw Mill River Road, Tarrytown, New York, 10591, United States of America ~72: DANIELA DI BATTISTA MIANI;GABRIELA PREGERNIG;JOSEPH BURNS;KATHRYN ELLIS;KEVIN LEBO;LEAH SABIN;MEGHAN DRUMMOND SAMUELSON;SARAH CANCELARICH;TYLER GIBSON~ 33:US ~31:63/306,928 ~32:04/02/2022;33:US ~31:63/306,941 ~32:04/02/2022

2024/05714 ~ Complete ~54:STIRRING MACHINE FOR HIGH VISCOSITY LIQUID STIRRING ~71:Wenzhou Polytechnic, University Town, Chashan and Jiangjiaqiao 81, Wenzhou, Zhejiang, People's Republic of China ~72: Fang Liwei~

2024/05713 ~ Complete ~54:AN EVALUATION METHOD FOR ECOLOGICAL SENSITIVITY AND FUNCTIONAL AREA SUITABILITY OF VILLAGES AND TOWNS ~71:Anhui Science and Technology University, Donghua Road, Fengyang County, Chuzhou City, Anhui Province, 233100, People's Republic of China ~72: Baojuan ZHOU;Chenchen YUAN;Qiudi WANG;Wei ZHANG;Yuanyuan JIA~

2024/05719 ~ Complete ~54:GENETIC MODIFICATIONS FOR XENOTRANSPLANTATION ~71:THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, 412 LOW MEMORIAL LIBRARY, 535 WEST 116TH STREET, NEW YORK, NEW YORK 10027, USA, United States of America ~72: HAWLEY, Robert, J.;SYKES, Megan~ 33:US ~31:63/304,220 ~32:28/01/2022

2024/05731 ~ Complete ~54:SYSTEMS, METHODS, AND DEVICES FOR PATHOGEN IDENTIFICATION ~71:Deepull Diagnostics S.L., Baldiri Reixac, 4-8, BARCELONA 08028, BARCELONA, SPAIN, Spain ~72: BRU

GIBERT, Rafael;CARRERA FABRA, Jordi;COSGAYA CASTRO, Clara;MARTÍNEZ MOLINER, Verónica~ 33:US ~31:63/299,611 ~32:14/01/2022

2024/05718 ~ Complete ~54:BENZOISOTHIAZOLE AND BENZOISOXAZOLE COMPOUNDS FOR THE TREATMENT OF MENTAL DISORDERS ~71:SUVEN LIFE SCIENCES LIMITED, 6th Floor, Serene Chambers, Road – 5, Avenue – 7, India ~72: BADANGE, Rajesh, Kumar;BENADE, Vijay;BOJJA, Kumar;JASTI, Venkateswarlu;JAYARAJAN, Pradeep;MOHAMMED, Abdul Rasheed;NIROGI, Ramakrishna;SHINDE, Anil Karbhari;SUBRAMANIAN, Ramkumar~ 33:IN ~31:202241004969 ~32:29/01/2022

2024/05725 ~ Complete ~54:METHOD FOR ERECTING A TRANSPORTATION STRUCTURE ~71:ARCELORMITTAL, 24-26 Boulevard d'Avranches, Luxembourg ~72: Elena DI SILVESTRO;Giuseppe SELLITTO;Michaël GREMLING~

2024/05733 ~ Complete ~54:METHODS AND DEVICES FOR PERFORMING AN ANALYTICAL MEASUREMENT ~71:F. Hoffmann-La Roche AG, Grenzacherstrasse 124, BASEL 4070, SWITZERLAND, Switzerland ~72: BERG, Max;HAILER, Fredrik;LIMBURG, Bernd~ 33:EP ~31:22156299.4 ~32:11/02/2022

2024/05712 ~ Complete ~54:COMPREHENSIVE CONSTRUCTION METHOD OF ROOF FLOWER TRELLIS BASED ON FRAME CLIMBING CONDITION ~71:THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, No.0169 Qianhai Road, Nanshan Subdistrict, Nanshan District, Shenzhen, 518000, People's Republic of China ~72: DAI, Lihan;FENG, Ruili;LI, Nan;LUO, yanhui;PENG, Pan;PING, Xiaolei;WANG, Shanfeng;XIAO, Zhipeng;YE, Hao;YU, Huanteng~

2024/05716 ~ Complete ~54:EXTENSIBLE PREFABRICATED UNDERGROUND STRUCTURE SYSTEM AND CONSTRUCTION METHOD ~71:Hunan University of Technology, No. 88, Mount Taishan West Road, Tianyuan District, Zhuzhou City, Hunan Province, People's Republic of China ~72: BIN Jia;BU Guobin;HE Chengxin;HE Jie;LIU Binghao;LIU Fangcheng;PAN Chi;WU Junpeng;XIE Jiahui;XU Zhuojun~

2024/05720 ~ Complete ~54:HETEROAROMATIC NITROGEN-OXIDE COMPOUND, PREPARATION METHOD THEREFOR, AND USE THEREOF ~71:BEIJING AVISTONE BIOTECHNOLOGY CO., LTD., ROOM 502, 5F BUILDING B, NO. 2 LIZEZHONG'ER ROAD, CHAOYANG DISTRICT, BEIJING 100102, CHINA, People's Republic of China ~72: LAN, Wenli;LI, Gong;LI, Xiangqiu;ZHANG, Peilong~ 33:CN ~31:202111640604.9 ~32:29/12/2021

2024/05722 ~ Complete ~54:LIQUID FORMULATION COMPRISING A FUSION PROTEIN INCLUDING A-GALACTOSIDASE A ~71:GREEN CROSS CORPORATION, 107, IHYEON-RO 30BEON-GIL, GIHEUNG-GU, YONGIN-SI, GYEONGGI-DO, 16924, REP OF KOREA, Republic of Korea;HANMI PHARM. CO., LTD., 214, MUHA-RO, PALTAN-MYEON, HWASEONG-SI, GYEONGGI-DO 18536, REPUBLIC OF KOREA, Republic of Korea ~72: HONG, Sung Hee;JANG, Doo Seo;KIM, Jin Young;KIM, Miroo;KIM, Sang, Yun;PARK, Da-eui;PARK, Jun Sub;SON, Jae Woon;YI, Shin-Ae;YOO, Miri~ 33:KR ~31:10-2022-0032090 ~32:15/03/2022

2024/05730 ~ Complete ~54:WOUND IRON CORE MANUFACTURING DEVICE AND WOUND IRON CORE MANUFACTURING METHOD ~71:NIPPON STEEL CORPORATION, 6-1, Marunouchi 2-chome, Chiyoda-ku, TOKYO 1008071, JAPAN, Japan ~72: MIZUMURA, Takahito;MOGI, Hisashi~ 33:JP ~31:2022-016397 ~32:04/02/2022

2024/05709 ~ Provisional ~54:FINSLEE ~71:MOCOWEST (PTY) LTD, 550A/86 Mokalane Street, Naledi, South Africa;Silindile Benedict Mfeka, 3083 Themba Drive, Zola1, South Africa;Thabiso Herman Khotle, 550A/86 Mokalane street, Naledi, South Africa ~72: Silindile Benedict Mfeka;Thabiso Herman Khotle~ 33:ZA ~31:ZA20240701084 ~32:01/07/2024

2024/05721 ~ Complete ~54:LYOPHILIZED FORMULATION COMPRISING A FUSION PROTEIN INCLUDING A-GALACTOSIDASE A ~71:GREEN CROSS CORPORATION, 107, IHYEON-RO 30BEON-GIL, GIHEUNG-GU, YONGIN-SI, GYEONGGI-DO, 16924, REP OF KOREA, Republic of Korea;HANMI PHARM. CO., LTD., 214, MUHA-RO, PALTAN-MYEON, HWASEONG-SI, GYEONGGI-DO 18536, REPUBLIC OF KOREA, Republic of Korea ~72: HONG, Sung Hee;JANG, Doo Seo;KIM, Jin Young;KIM, Miroo;KIM, Sang, Yun;PARK, Da-eui;PARK, Jun Sub;SON, Jae Woon;YI, Shin-Ae;YOO, Miri~ 33:KR ~31:10-2022-0032091 ~32:15/03/2022

2024/05723 ~ Complete ~54:MOULD FOR ALUMINOTHERMIC WELDING OF RAILS ~71:PANDROL, Zone Industrielle Rue du Bas Pré, France ~72: BORDERY, Pierre;MERESSE, Clément;WINIAR, Lionel~ 33:FR ~31:2114504 ~32:24/12/2021

2024/05732 ~ Complete ~54:BIFACIAL SEALED GAS DIFFUSION ELECTRODE ~71:Form Energy, Inc., 30 Dane Street, SOMERVILLE 02143, MA, USA, United States of America ~72: DONAHEY, Glenn;MCKIBBEN, Nicholas;PATRICK, Meghan Marya;REYNOLDS, Christopher Thomas;TARASOV, Vladimir Sergeyevich;TRAINI, Erica Skye;WOOD, Christopher Evan;WOODFORD, William Henry;YANG, Kalina~ 33:US ~31:63/304,425 ~32:28/01/2022

2024/05770 ~ Provisional ~54:MULTI-PURPOSE COOLER BAG ~71:Ivan Wikus Steyl, 19 Skylab Crescent, Steiltes, South Africa ~72: Ivan Wikus Steyl~

2024/05737 ~ Complete ~54:NOVEL USE OF MELANOCORTIN-1 RECEPTOR AGONIST ~71:MITSUBISHI TANABE PHARMA CORPORATION, 3-2-10, Dosho-machi, Chuo-ku, Osaka-shi, Osaka, 5418505, Japan ~72: MASAHIRO KONDO;TSUYOSHI SUZUKI;YUKO KAWANO~ 33:JP ~31:2022-013759 ~32:31/01/2022

2024/05727 ~ Complete ~54:MOULDED POLYMER ARTICLE AND MANUFACTURE THEREOF ~71:Bockatech Ltd, Burnham House, Splash Lane, Wyton, HUNTINGDON PE28 2AF, UNITED KINGDOM, United Kingdom ~72: BOCKING, Chris;CLARKE, Peter Reginald~ 33:GB ~31:2200952.6 ~32:25/01/2022

2024/05715 ~ Complete ~54:DATA PROCESSING DEVICE FOR CROSS-BORDER E-COMMERCE ~71:Zhejiang Industry and Trade Vocational College, No. 717 Fudong Road, Wenzhou City, Zhejiang Province, People's Republic of China ~72: Gao Tiange;Huang Beilei;Jin Xiujin;Liu Min;Liu Yingjun;Wu Qifan~

2024/05734 ~ Complete ~54:APPARATUS AND METHOD FOR GAS-LIQUID SEPARATION OF A FISCHER-TROPSCH REACTOR OUTLET STREAM ~71:Johnson Matthey Davy Technologies Limited, 5th Floor, 25 Farringdon Street, LONDON EC4A 4AB, GREATER LONDON, UNITED KINGDOM, United Kingdom ~72: BENCE, Roger Kenneth;CLARKSON, Jay Simon;COE, Andrew James~ 33:GB ~31:2203544.8 ~32:15/03/2022

2024/05724 ~ Complete ~54:COMPOSITIONS AND METHODS FOR INHIBITING EXPRESSION OF PREKALLIKREIN (PKK) PROTEIN ~71:SHANGHAI ARGO BIOPHARMACEUTICAL CO., LTD., 337 Shahe Road, J2026, Room 1_203, People's Republic of China ~72: SHAO, Pengcheng Patrick;SHU, Dongxu;XIA, Shiwei~ 33:CN ~31:PCT/CN2022/074535 ~32:28/01/2022

2024/05728 ~ Complete ~54:LOCATION-BASED OPERATING OF DEVICES IN AN INDUSTRIAL PLANT ~71:ABB Schweiz AG, Bruggerstrasse 66, BADEN 5400, SWITZERLAND, Switzerland ~72: BAUER, Philipp;GAMER, Thomas;MENDOZA, Francisco;SCHULZ, Dirk~

2024/05710 ~ Complete ~54:CONSTRUCTION METHOD FOR ULTRAHIGH CLIMBING FRAME ~71:THE SECOND CONSTRUCTION ENGINEERING COMPANY LTD. OF CHINA CONSTRUCTION SECOND ENGINEERING BUREAU, No.0169 Qianhai Road, Nanshan Subdistrict, Nanshan District, Shenzhen, 518000, People's Republic of China ~72: Feng, Ruili;HU, Pan;LI, Chengjun;LIN, Dongqin;WANG, Gang;WANG, Hongjun;WU, Huihui;YUAN, Xin;ZHANG, Ansheng;ZHANG, Fengmin~

2024/05729 ~ Complete ~54:SYNTHESIS OF A KIF18A INHIBITOR ~71:AMGEN INC., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: CAILLE, Sebastien;CORBETT, Michael Thomas;GREENE, Daniel Gerard;WEI, Carolyn~ 33:US ~31:63/303,470 ~32:26/01/2022

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2024/05749 ~ Complete ~54:FLEXIBLE COMPOSITE ~71:Concrete Canvas Technology Ltd., Unit 3, Block A22 Severn Road, Treforest Industrial Estate, PONTYPRIDD CF37 5SP, SOUTH WALES, UNITED KINGDOM, United Kingdom ~72: BREWIN, Peter Eric;COX, Daniel;KOHLMAN, Randolph S.;ROSE, Graham;SAVAGE, Mark~ 33:GB ~31:1619738.6 ~32:22/11/2016

2024/05763 ~ Complete ~54:PYRIMIDINES FOR DEGRADING BRUTON'S TYROSINE KINASE ~71:AbbVie Inc., 1 North Waukegan Road, Ap34-2, NORTH CHICAGO 60064, IL, USA, United States of America ~72: ADAMS, Ashley M.;BIAN, Zhiguo;BIANNIC, Berenger;BURKE, Jason P.;JIA, Zhaozhong J.;JIANG, Xingyu;KATCHER, Matthew H.;MALI, Venkat Reddy;MARIN, Violeta L.;MORTEZAEI, Shahab;NOEY, Elizabeth L.;OKANO, Akinori;PAYETTE, Joshua N.;RIVKIN, Alexey A.;SCHOLZ, Spencer O.;WOLLER, Kevin R.;ZABLOCKI, Jeffery A.;ZHAO, Xianrui~ 33:US ~31:63/322,505 ~32:22/03/2022

2024/05745 ~ Complete ~54:TEACHING AID FOR MENTAL HEALTH EDUCATION ~71:Chuzhou city Career Academy, 101 Zuiweng West Road, Chuzhou City, Anhui Province, 239000, People's Republic of China ~72: GU Lianlian;YANG Rujiang~

2024/05758 ~ Complete ~54:NON-DESTRUCTIVE QUANTITATIVE DETERMINATION OF AT LEAST ONE PERFORMANCE INDICATOR IN REARING A POPULATION OF LIVE INSECTS IN A COMPLEX MEDIUM ~71:Ynsect, 1 Rue Pierre Fontaine, ÉVRY-COURCOURONNES CEDEX 91058, FRANCE, France ~72: ARMENJON, Benjamin;DARAI, Laura;LORRETTE, Bénédicte;NOURI, Maroua;RICHARD, Jérôme~ 33:FR ~31:2114582 ~32:28/12/2021

2024/05762 ~ Complete ~54:SYSTEMS, METHODS, AND DEVICES FOR ANTIMICROBIAL SUSCEPTIBILITY TESTING ~71:Deepull Diagnostics S.L., Baldiri Reixac, 4-8, BARCELONA 08028, BARCELONA, SPAIN, Spain ~72: BRU GIBERT, Rafael;CARRERA FABRA, Jordi;MARÍ ALMIRALL, Marta;SANGLAS BAULENAS, Ariadna~ 33:US ~31:63/299,555 ~32:14/01/2022

2024/05750 ~ Complete ~54:METHOD FOR PREDICTING QUANTITY OF ELECTRICITY LOSS CAUSED BY DUST IN PHOTOVOLTAIC POWER STATION BASED ON AI MODEL TRAINING ~71:SPIC INTEGRATED SMART ENERGY TECHNOLOGY CO., LTD, 1-14-298, 2nd Floor, No. 136 Xiwai Street, Xicheng District, Beijing, People's Republic of China ~72: LING YANG;XIN LI~ 33:CN ~31:2023109199734 ~32:26/07/2023

2024/05755 ~ Complete ~54:HYPOXIA-INDUCED EXOSOME OF HUMAN UMBILICAL CORD MESENCHYMAL STEM CELLS, AND PREPARATION METHOD AND APPLICATION THEREOF ~71:CHINESE PLA GENERAL HOSPITAL, No.28 Fuxing Road, Haidian District,, Beijing, 100853, People's Republic of China ~72: CHU, Ziqiang;FU, Xiaobing;MA, Liqian;ZHANG, Cuiping~ 33:CN ~31:202310348957.4 ~32:04/04/2023

2024/05740 ~ Provisional ~54:CABLE JOINT ~71:TERRAPID TECHNOLOGIES (PTY) LTD, 13 Riverside Estate, 497-JQ, Jukskeidrif Road, South Africa ~72: ATKINS, David Seagrave~

2024/05743 ~ Complete ~54:POWER TRANSMISSION LINE DEFECT IMAGE SELECTIVE-SHOOTING METHOD ~71:Changchun Institute of Technology, No. 395 Kuanping Road, Chaoyang District, Changchun City, Jilin Province, 130012, People's Republic of China;Jilin Sport University, No. 2476 Ziyou Road, Changchun City, Jilin Province, 130022, People's Republic of China ~72: FU, Li'an;LIU, Hongxi;PU, Pengshuai;SU,

Xiaoying;TANG, Chuqiao;WANG, Chaoqun;WANG, Chaoyong;WANG, Hongyan;XU, Yanjuan;YANG, Yixu;ZHAO, Ziyi~

2024/05751 ~ Complete ~54:METHOD AND SYSTEM OF TRAINING PHOTOVOLTAIC POWER GENERATION CAPACITY MODEL BASED ON PRIOR AND POSTERIOR MODEL FUSION ~71:SPIC INTEGRATED SMART ENERGY TECHNOLOGY CO., LTD, 1-14-298, 2nd Floor, No. 136 Xiwai Street, Xicheng District, Beijing, People's Republic of China ~72: LING YANG;XIAORAN ZHENG;ZHIYUAN ZHAO~ 33:CN ~31:2023109198799 ~32:26/07/2023

2024/05757 ~ Complete ~54:IMPULSE PROPULSION SYSTEM ~71:WARPA (World Advance Research Project Agency), 30 Chemin Boudou, TOULOUSE 31200 , FRANCE, France ~72: GENESTE, Jean-François~ 33:FR ~31:2114570 ~32:28/12/2021

2024/05766 ~ Complete ~54:RECONSTRUCTION OF A PATIENT-SPECIFIC CENTRAL ARTERIAL PRESSURE WAVEFORM MORPHOLOGY FROM A DISTAL NON-INVASIVE PRESSURE MEASUREMENT ~71:HEMOLENS DIAGNOSTIC SPÓLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA, Ul. Legnicka, nr 48G 54-202 Wroclaw, Poland ~72: IZABELA POPIEL;KRYSPIN MIROTA~

2024/05756 ~ Complete ~54:WET CARBON CAPTURE PROCESS COUPLING WATER BALANCE CONTROL WITH UTILIZATION OF INTERNAL HEAT OF SYSTEM ~71:Tongxing Environmental Protection Technology Co., Ltd, Industrial Park In Qingxi Town , Hanshan County, Maanshan City, People's Republic of China ~72: Huang Zhongbin;Lv Wenbin;Ye Huang;Zheng Yong~ 33:CN ~31:202311837562.7 ~32:28/12/2023

2024/05746 ~ Complete ~54:SEMI-DOMESTICATION OF THE LONGHORN BEETLE THYSIA WALLICHII AND ITS NUTRITIVE VALUE ~71:Nagaland University, Nagaland University, Lumami Headquarters, Zunheboto District, Nagaland, 798627, India ~72: B. Ao;L Jing (Don Bosco College Kohima);L Mozhui;L N Kakati (Downtown University);M C Rusta;P. Kiewhuo;V B Meyer Rochow (Department of Genetics and Physiology, Department of Ecology and Genetics, Oulu, Finland)~ 33:IN ~31:202431040905 ~32:27/05/2024

2024/05759 ~ Complete ~54:MIXING SYSTEM ~71:Casale SA, Via Giulio Pocobelli 6, LUGANO 6900, SWITZERLAND, Switzerland ~72: BERETTI, Andrea;CEREA, Iacopo~ 33:EP ~31:22153467.0 ~32:26/01/2022

2024/05744 ~ Complete ~54:NEGATIVE CARBON REINFORCED RECYCLED AGGREGATE DRAINAGE PILE FOR LARGE PORE CEMENT STABILIZED INDUSTRIAL BUILDING SOLID WASTE AND PREPARATION PROCESS THEREOF ~71:CHINA FIRST HIGHWAY ENGINEERING GROUP CO., LTD, Shitong Building A, Zhoujiajing, Guanzhuang, Chaoyang District, Beijing, 100024, People's Republic of China;Nanjing Lvzhi Geotechnical Technology Co., Ltd., Room 1031, 1/F, Building 9, Zhongke Innovation Plaza, No. 150 Pubin Road, Jiangbei New District, Nanjing, Jiangsu Province, 210000, People's Republic of China;Nanjing Tech University, No.30 Puzhu South Road, Jiangbei New District, Nanjing City, Jiangsu Province, 211816, People's Republic of China ~72: Haiyan JIANG;Jiancai HAO;Jitao DAI;Leilei GU;Shengnian WANG;Xingwang PENG;Zhijian WU~

2024/05747 ~ Complete ~54:NEW PREPARATION METHOD FOR TERNARY ALLOY TYPE CDSES QUANTUM DOTS ~71:Henan University of Urban Construction, Longxiang Avenue, Xincheng District, Pingdingshan City, Henan Province, 467036, People's Republic of China ~72: Chen Xiaoxu;Dong Yuting;Geng Hongchao;Huang Zhenzhen;Kang Haiyan;Li Xiaolan;Mao Yanli;Peng Rongfu;Shi Mengyao;Song Zhongxian;Wang Chaohai;Xu Linlang;Yan Xiaole;Yan Xu;Yan Yuzhang;Zhang Xia;Zhong Sijie;Zhu Xinfeng~

2024/05754 ~ Complete ~54:SLEEVE AND METHOD FOR THERMALLY-INSULATING A BLAST HOLE ~71:GLENCORE OPERATIONS SOUTH AFRICA (PTY) LIMITED, 39 Melrose Blvd, 3rd Floor,, South Africa ~72: STENZEL, Gerhard Johann~ 33:ZA ~31:2022/04166 ~32:21/04/2022

2024/05741 ~ Complete ~54:3D PRINTING PROCESS PARAMETER OPTIMIZATION METHOD FOR REDUCING THERMAL DEFORMATION OF WORKPIECE ~71:Huaxi Jingchuang Medical Technology (Chengdu) Co., Ltd., Floor 12-13, Building 5, 171 Hele Second Street, Chengdu High-tech Zone, China (Sichuan) Pilot Free Trade Zone, 610095, People's Republic of China ~72: LIU, Yichen~

2024/05765 ~ Complete ~54:ELECTRONIC DEVICE AND OPERATION METHOD THEREOF ~71:SAMSUNG ELECTRONICS CO., LTD., 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea ~72: DONGWAN PARK~ 33:KR ~31:10-2022-0014931 ~32:04/02/2022

2024/05742 ~ Complete ~54:NEW GREEN ENERGY-SAVING HOUSE ~71:Muci YUE, No. 136 Huaian East Road, Yuhua District, Shijiazhuang City, Hebei Province, 050031, People's Republic of China;Weijie CAO, No. 136 Huaian East Road, Yuhua District, Shijiazhuang City, Hebei Province, 050031, People's Republic of China;Xiuling CAO, No. 136 Huaian East Road, Yuhua District, Shijiazhuang City, Hebei Province, 050031, People's Republic of China ~72: Binbin WANG;Haiyan XU;Liang YU;Muci YUE;Weijie CAO;Xiuling CAO;Yuxin ZHAI~

2024/05760 ~ Complete ~54:SYSTEMS AND METHODS FOR MODULATION OF DEEP BRAIN CIRCUITS ~71:University of Utah Research Foundation, 615 Arapeen Drive, Suite #310, SALT LAKE CITY 84108, UT, USA, United States of America ~72: KUBANEK, Jan~ 33:US ~31:63/296,252 ~32:04/01/2022

2024/05752 ~ Complete ~54:COLLISION MITIGATION DEVICE ~71:DARYL ANTHONY SPENCER, 4 Vian Road, Winston Park, South Africa ~72: SPENCER, Daryl Anthony~ 33:ZA ~31:2023/07558 ~32:31/07/2023

2024/05768 ~ Complete ~54:SYSTEM AND METHOD FOR PRODUCING A VIDEO STREAM ~71:LIVEARENA TECHNOLOGIES AB, Box 112 08, Sweden ~72: BJÖRKMAN, Andreas;BLANKENS, Per;ERLMAN, Lars;NILSSON, Anders;RAGNARSSON, Marcus;SÖRQVIST, Maxx~ 33:SE ~31:2250113-4 ~32:04/02/2022

2024/05748 ~ Complete ~54:UNIVERSAL ABT COMPOUNDS AND USES THEREOF ~71:Kleo Pharmaceuticals, Inc., 25 Science Park, Suite 2D, 150 Munson Street, NEW HAVEN 06511, CT, USA, United States of America ~72: SPIEGEL, David Adam;WELSCH (Deceased), Matthew Ernest~ 33:US ~31:62/537,034 ~32:26/07/2017

2024/05753 ~ Complete ~54:GAS CYLINDER MANAGEMENT SYSTEM AND METHOD ~71:IGV SYSTEMS (PTY) LTD., 7 Platinum Street, Goedeburg, BENONI 1501, Gauteng, SOUTH AFRICA, South Africa ~72: STOLS, Andries Albertus;STOLS, Dijon~ 33:ZA ~31:2023/07078 ~32:14/07/2023

2024/05761 ~ Complete ~54:CANCER TREATMENT TARGETING DLL3 ~71:Amgen Inc., One Amgen Center Drive, THOUSAND OAKS 91320-1799, CA, USA, United States of America ~72: CHEN, Xi;GOLDRICK, Amanda;HASHEMI SADRAEI, Nooshin;KISTLER, Mira;MINOCHA, Mukul~ 33:US ~31:63/313,119 ~32:23/02/2022;33:US ~31:63/429,311 ~32:01/12/2022

2024/05767 ~ Complete ~54:SYSTEM AND METHOD FOR PRODUCING A VIDEO STREAM ~71:LIVEARENA TECHNOLOGIES AB, Box 112 08, Sweden ~72: BJÖRKMAN, Andreas;BLANKENS, Per;ERLMAN, Lars;NILSSON, Anders;RAGNARSSON, Marcus;SÖRQVIST, Maxx~ 33:SE ~31:2250113-4 ~32:04/02/2022

2024/05764 ~ Complete ~54:EXPRESSION CASSETTES FOR TREATING EPILEPSY AND NEUROPATHIC PAIN ~71:Trames Bio, Inc., 1111 Broadway #1300, OAKLAND 94607, CA, USA, United States of America ~72: KERAVALA, Annahita~ 33:US ~31:63/304,960 ~32:31/01/2022;33:US ~31:63/312,480 ~32:22/02/2022

2024/05769 ~ Complete ~54:USE OF RETINAL PIGMENT EPITHELIAL CELLS IN REPLACEMENT OF CORNEAL ENDOTHELIA ~71:EYE INSTITUTE OF SHANDONG FIRST MEDICAL UNIVERSITY, No.5 Yanerdao

Road, Qingdao, People's Republic of China ~72: DONG, Chunxiao;DUAN, Haoyun;LI, Zongyi;SHI, Weiyun;ZHOU, Qingjun~

. - APPLIED ON 2024/07/26 -

2024/05772 ~ Provisional ~54:A PEEL-AWAY TOILET SEAT COVER ~71:Loubser; Nicholas Everhardus, 91 Sleigh Street, Country Club, South Africa ~72: Loubser; Nicholas Everhardus~

2024/05784 ~ Complete ~54:MINERAL ADMIXTURE FOR INHIBITING TEMPERATURE RISE OF CONCRETE HYDRATION AND PREPARATION AND APPLICATION THEREOF ~71:China Road And Bridge Corporation, No.88,Andingmenwai Avenue C,Dongcheng District, Beijing, 100011, People's Republic of China ~72: Bile CHEN;Bo YANG;Chao GAO;Chaoqun TANG;Fei DU;Feng ZENG;Gang LI;Jingliang XIA;Ruizheng LI;Xisheng FANG~ 33:CN ~31:2022105297907 ~32:16/05/2022

2024/05785 ~ Complete ~54:ALIGNMENT DEVICE FOR AN ELECTRIC CELL STACK, PARTICULARLY A FUEL CELL STACK ~71:POWERCELL SWEDEN AB, Ruskvädersgatan 12,, Sweden ~72: FLINK, Johan;MUNTHE, Stefan;VELÉN, Robin~ 33:SE ~31:2250133-2 ~32:10/02/2022

2024/05796 ~ Complete ~54:TREATMENT OF CARDIOPULMONARY DISORDERS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Bayer Pharma Aktiengesellschaft, Müllerstr. 178, BERLIN 13353, GERMANY, Germany ~72: BECKER, Guido;BECKER-PELSTER, Eva Maria;BOTHE, Clemens;DIETZ, Lisa;EGGER, Julian;FABER, Helene;FEY, Peter;HAHN, Michael;JUNG, David;KEIL, Birgit;LANG, Dieter;MUNDRY, Tobias;NAGELSCHMITZ, Johannes;OLENIK, Britta;PARRY, Mark;RICHTER, Annett;RÖSLER, Bernd;SALEH, Soundos;SCHIRMER, Heiko;TEREBESI, Ildiko;TINEL, Hanna;VITRE, Cecile;WARD, David;WEIMANN, Gerrit~ 33:EP ~31:21218165.5 ~32:29/12/2021

2024/05788 ~ Complete ~54:METHOD AND DEVICE FOR EVALUATING STABILITY OF SODA RESIDUE DAM BODY ~71:CCTEG COAL MINING RESEARCH INSTITUTE, Tiandi Building, No.5 Qingniangou Road, Chaoyang District, Beijing, China 100013, People's Republic of China ~72: CHAO GAO;GUOCAN TIAN;LEI XU;WEINAN DENG;XUDONG ZHANG;YIXIN LIU;YUJUN ZHANG;ZHUORAN LIU~ 33:CN ~31:202310077098X ~32:16/01/2023

2024/05792 ~ Complete ~54:SEED TREATMENT METHODS FOR INCREASING YIELD IN CROP PLANTS ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany ~72: ANDRIEUX, Marc;GRANDJEAN, Pierre;KLÜKEN, Michael Agostinos;LABORIE, Bénédicte;RIST, Marc André;TARROUX, Florent~ 33:EP ~31:21218013.7 ~32:28/12/2021

2024/05786 ~ Complete ~54:VOLTAGE MONITORING DEVICE FOR AN ELECTRIC STACK, PARTICULARLY FOR A FUEL CELL STACK ~71:POWERCELL SWEDEN AB, Ruskvädersgatan 12,, Sweden ~72: FLINK, Johan;MUNTHE, Stefan;VELÉN, Robin~ 33:SE ~31:2250131-6 ~32:10/02/2022

2024/05777 ~ Complete ~54:HEAT DISSIPATION AND WEAR-RESISTANT DEVICE FOR CONCRETE VIBRATING ROD ~71:Wuhan Polytechnic University, No. 68, Xuefu South Road, Changqing Garden, Dongxihu District, Wuhan City, Hubei Province, People's Republic of China ~72: LI Junjie;LIU Songlin;LIU Zijun;MA Yuxi;SHU Feng;ZHENG Zhongyi~ 33:CN ~31:202311273948.X ~32:28/09/2023

2024/05781 ~ Complete ~54:MULTIFUNCTIONAL NEWBORN KANGAROO-STYLE CARRIER ~71:Beijing Changping District Hospital of Integrated Traditional Chinese and Western Medicine, No. 219, Huangping Road, Changping District, Beijing, People's Republic of China ~72: Jinbao Yang;Mingzhu Xu;Xiaohan Chen;Xiaojun Chen;Yusheng Yang;Zeqi Yang~

2024/05798 ~ Complete ~54:ANTIBODIES TO PROGRAMMED CELL DEATH PROTEIN 1 THAT ARE PD-1 AGONISTS ~71:Georgiamune Inc., 942 Clopper Road, GAITHERSBURG 20878, MD, USA, United States of America ~72: KHLEIF, Samir;MKRTICHYAN, Mikayel~ 33:US ~31:63/304,365 ~32:28/01/2022

2024/05782 ~ Complete ~54:ANTIBODIES, USES & METHODS ~71:KYMAB LIMITED, The Bennet Building (B930), Babraham Research Campus, United Kingdom ~72: BLAND-WARD, Philip;CAMPBELL, Jamie;HOLMES, Steve;KEEN, Leslie Susan;KIRBY, Ian;KOSMAC, Miha;TKACHEV, Victor~ 33:WO ~31:PCT/GB2015/050614 ~32:03/03/2015;33:US ~31:14/700,896 ~32:30/04/2015;33:US ~31:14/811,163 ~32:28/07/2015;33:GB ~31:1516008.8 ~32:09/09/2015;33:US ~31:14/935,937 ~32:09/11/2015;33:US ~31:14/955,843 ~32:01/12/2015

2024/05790 ~ Complete ~54:METHODS AND SYSTEM BASED ON ADVANCED ENERGY SAVING APPLIED TO FREQUENCY INVERTERS OF INDUCTION MOTORS ~71:WEG DRIVES & CONTROLS AUTOMAÇÃO LTDA., Avenida Prefeito Waldemar Grubba, 3.300, Villa Lalau, Jaraguá do Sul, Santa Catarina, 89256-900, Brazil ~72: ADALBERTO JOSÉ ROSSA;CARLOS AFONSO HÜMMELGEN;CLEYSON AMORIM COSTA;ITAMAR FERNANDES SOARES;JACQUES ROBERTH RUTHES;MARIO DE AZAMBUJA TURQUETI~ 33:US ~31:63/323,826 ~32:25/03/2022

2024/05797 ~ Complete ~54:MULTI-SUBSTITUTED URACIL DERIVATIVE AND PREPARATION METHOD THEREFOR AND APPLICATION THEREOF ~71:Hangzhou Adamerck Pharmlabs Inc., Room 301, Building 2-2, No.2073, Jinchang Road, Liangzhu Street Yuhang District, HANGZHOU 311112, ZHEJIANG, CHINA (P.R.C.), People's Republic of China ~72: QI, Youmao~ 33:CN ~31:202111641890.0 ~32:29/12/2021

2024/05778 ~ Complete ~54:A FUZZY COMPREHENSIVE PREDICTION AND EVALUATION METHOD FOR KARST GROUND COLLAPSE RISK ~71:Kunming University of Science and Technology, No. 253 Xuefu Road, Wuhua District, Kunming City, Yunnan Province, 650093, People's Republic of China;Yunnan Geological Engineering Survey and Design Research Institute Limited Company, No. 47 Liming Road, Guandu District, Kunming City, Yunnan Province, 650041, People's Republic of China;Yunnan Hongkai Investment Co., Ltd., No. 455, Huancheng East Road, Panlong District, Kunming City, Yunnan Province, 650000, People's Republic of China ~72: Feng Pan;Guangshu Yang;Han Zhou;He Chang;Jiaorong Hu;Jie Lv;Li Zhou;Ruyan Li;Shengdong Huang;Xiaojun Zheng;Xingyong Han;Yongfeng Yan~

2024/05771 ~ Provisional ~54:A DEVICE FOR SHAPING OR FORMING A TIP OF AN ENDOVASCULAR CATHETER ~71:MIN MEDICAL INNOVATION NETWORK GmbH, Franz Schalk - Platz 9/2, Austria ~72: FLATSCHER, Michael~

2024/05776 ~ Complete ~54:SAFETY SYSTEM FOR OPERATING MACHINES ~71:MANITOU ITALIA S.R.L., Via Cristoforo Colombo 2, Castelfranco Emilia (Modena), 41013, Italy ~72: MARCO IOTTI~ 33:IT ~31:102023000016635 ~32:03/08/2023

2024/05780 ~ Complete ~54:AN EARTHQUAKE-RESISTANT BUILDING DESIGN STRUCTURE ~71:Nanchong Vocational and Technical College, No.96 Hongfa road, Gaoping district, Nanchong city, Sichuan province, 637000, People's Republic of China ~72: Yong Zhang~

2024/05783 ~ Complete ~54:COMPOUNDS ~71:GLAXOSMITHKLINE INTELLECTUAL PROPERTY DEVELOPMENT LIMITED, GSK Medicines Research Centre, Gunnels Wood Road, United Kingdom;UNIVERSITY OF DUNDEE, No. 11 Perth Road, Dundee, United Kingdom ~72: BATES, Robert;CLEGHORN, Laura A T;DAVIS, Susan H;ENCINAS, Lourdes;GREEN, Simon R;WYATT, Paul G~ 33:EP ~31:22382144.8 ~32:21/02/2022

2024/05789 ~ Complete ~54:BLOOD-BRAIN BARRIER PERMEABLE FUSION PROTEIN AND USES THEREOF ~71:IMNEWRUN, INC., 5F, A-dong, N Center, 2066 Seobu-ro, Jangan-gu, Suwon-si, Gyeonggi-do, 16419,

Republic of Korea ~72: EUN A LEE;HAN JOO KIM;YONG IL AN~ 33:KR ~31:10-2021-0194319 ~32:31/12/2021;33:KR ~31:10-2022-0189752 ~32:29/12/2022

2024/05774 ~ Complete ~54:A DEEP HIGH-TEMPERATURE THERMAL RESERVOIR SIMULATION SYSTEM THAT INTEGRATES 3D PRINTING TECHNOLOGY ~71:Northeastern University, NO.3-11, Wenhua Road, Heping District, Shenyang, Liaoning Province, 110819, People's Republic of China ~72: Chuan WANG;Jianyu XU;Jiasong YANG;Ming WU;Xiating FENG;Xin WANG;Xiwei ZHANG;Yu QIN;Yulong ZHANG;Zaobao LIU~

2024/05775 ~ Complete ~54:A GEOTHERMAL RESOURCE DEVELOPMENT SIMULATION SYSTEM BASED ON 3D PRINTING MODEL ~71:Northeastern University, NO.3-11, Wenhua Road, Heping District, Shenyang, Liaoning Province, 110819, People's Republic of China ~72: Chuan WANG;Fei WANG;Jianyu XU;Jiasong YANG;Ming WU;Xiating FENG;Xin WANG;Xiwei ZHANG;Yulong ZHANG;Zaobao LIU~

2024/05779 ~ Complete ~54:FLOW-CONTROLLED HIGH-ACTIVITY SELENIUM PRODUCTION DEVICE ~71:Zhaoqing Tianying Biotechnology Co., Ltd., No.1, Huangtang East Road, Duanzhou District, Zhaoqing City, Guangdong Province, 526040, People's Republic of China ~72: Meiqing Liang;Yongquan Liang;Zhuguang He~ 33:CN ~31:202322043488.3 ~32:01/08/2023

2024/05793 ~ Complete ~54:INDAZOLE COMPOUND AND PHARMACEUTICAL ~71:Nippon Shinyaku Co., Ltd., 14, Kisshoin Nishinosho Monguchicho, Minami-ku, Kyoto-shi, KYOTO 6018550, JAPAN, Japan ~72: FUKUI , Tomomi;HASHIMOTO, Kosuke;KAKUTANI, Mai;TAKITA, Hirofumi;YAMAGUCHI, Hiroshi~ 33:JP ~31:2021-215221 ~32:28/12/2021

2024/05794 ~ Complete ~54:PROCESS FOR PREPARING (5S)-{[2-(4-CARBOXYPHENYL)ETHYL] |2-(2-{|3-CHLORO-4'-(TRIFLUOROMETHYL)BIPHENYL-4- YL]METHOXY}PHENYL)ETHYL]AMINOL-5,6,7,8-TETRAHYDROQUINOLINE-2-CARBOXYLIC ACID AND ITS CRYSTALLINE FORMS FOR USE AS PHARMACEUTICALLY ACTIVE COMPOUND ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Bayer Pharma Aktiengesellschaft, Müllerstr. 178, BERLIN 13353, GERMANY, Germany ~72: BECKER, Guido;BOTHE, Clemens;EGGER, Julian;FABER, Helene;FEY, Peter;KEIL, Birgit;OLENIK, Britta;RÖSLER, Bernd;SCHIRMER, Heiko~ 33:EP ~31:21218163.0 ~32:29/12/2021

2024/05799 ~ Complete ~54:PATH SWITCHING BETWEEN A PC5 INTERFACE AND A UU INTERFACE ~71:InterDigital Patent Holdings, Inc., 200 Bellevue Parkway, Suite 300, WILMINGTON 19809, DE, USA, United States of America ~72: ABBAS, Taimoor;AHMAD, Saad;FERDI, Samir;PERRAS, Michelle;SHI, Xiaoyan;SON, Jung Je~ 33:US ~31:63/303,733 ~32:27/01/2022;33:US ~31:63/321,977 ~32:21/03/2022;33:US ~31:63/390,384 ~32:19/07/2022

2024/05773 ~ Complete ~54:METHOD FOR RAPIDLY DETECTING PATHOGENS IN AGRICULTURAL WATER ~71:Jiangsu Academy of Agricultural Sciences, 50 Zhongling Street, Nanjing City, Jiangsu Province, 210014, People's Republic of China ~72: DU, Xuefei;HE, Xin;LI, Bin;LI, Dandi;LIU, Xianjin;LIU, Yuan;SCHMIDT, Stefan;XIE, Yajing;XU, Chongxin;ZHANG, Cunzheng~

2024/05787 ~ Complete ~54:FUEL CELL STACK ~71:POWERCELL SWEDEN AB, Ruskvädersgatan 12,, Sweden ~72: STENEBY, Bengt~ 33:SE ~31:2250134-0 ~32:11/02/2022

2024/05791 ~ Complete ~54:METHODS OF PREPARING AND CRYSTALLINE FORMS OF (6A,12A)-17-AMINO-12-METHYL-6,15-BIS(TRIFLUOROMETHYL)-13,19-DIOXA-3,4,18-TRIAZATRICYCLO[12.3.1.12,5]NONADECA-1(18),2,4,14,16-PENTAEN-6-OL ~71:VERTEX PHARMACEUTICALS INCORPORATED, 50 Northern Avenue, Boston, Massachusetts, 02210, United States of America ~72: ALES MEDEK;ANDREY PERESYPKIN;DANIEL JAMES MACK;DAVID A SIESEL;JINGLAN ZHOU;KEVIN

GAGNON;MINSON BAEK;MUNA SHRESTHA;PAUL TIMOTHY ANGELL;STEFANIE ROEPER;YI SHI~ 33:US ~31:63/306,443 ~32:03/02/2022;33:US ~31:63/308,456 ~32:09/02/2022

2024/05795 ~ Complete ~54:PHARMACEUTICAL DRY POWDER INHALATION FORMULATION ~71:Bayer Aktiengesellschaft, Kaiser-Wilhelm-Allee 1, LEVERKUSEN 51373, GERMANY, Germany;Bayer Pharma Aktiengesellschaft, Müllerstr. 178, BERLIN 13353, GERMANY, Germany ~72: BECKER, Guido;BECKER-PELSTER, Eva Maria;BOTHE, Clemens;DIETZ, Lisa;EGGER, Julian;FABER, Helene;FEY, Peter;HAHN, Michael;JUNG, David;KEIL, Birgit;LANG, Dieter;MUNDRY, Tobias;NAGELSCHMITZ, Johannes;OLENIK, Britta;PARRY, Mark;RICHTER, Annett;RÖSLER, Bernd;SALEH, Soundos;SCHIRMER, Heiko;TEREBESI, Ildiko;TINEL, Hanna;VITRE, Cecile;WARD, David;WEIMANN, Gerrit~ 33:EP ~31:21218160.6 ~32:29/12/2021

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

Application Number	Assignor	Assignee
2021/01329	YEOMANS, ALLAN JAMES	YS2 HUMUS PTY LIMITED
2006/00806	BIOVEX LIMITED	BIOVEX GROUP, INC.
2006/00806	BIOVEX GROUP, INC.	BIOVEX, INC.
2024/02385	INNOPEAK TECHNOLOGY, INC.	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
2021/08001	THE PROCTER & GAMBLE COMPANY	INTERNATIONAL N&H DENMARK APS
2020/03700	WELLSTAT THERAPEUTICS CORPORATION	PHARMA CINQ, LLC
2018/08040	WELLSTAT THERAPEUTICS CORPORATION	PHARMA CINQ, LLC
2018/08041	WELLSTAT THERAPEUTICS CORPORATION	PHARMA CINQ, LLC
2015/04954	WELLSTAT THERAPEUTICS CORPORATION	PHARMA CINQ, LLC
2013/07589	WELLSTAT THERAPEUTICS CORPORATION	PHARMA CINQ, LLC
2010/05872	WELLSTAT THERAPEUTICS CORPORATION	PHARMA CINQ, LLC
2010/06929	WELLSTAT THERAPEUTICS CORPORATION	PHARMA CINQ, LLC
2007/03194	WELLSTAT THERAPEUTICS CORPORATION	PHARMA CINQ, LLC
2024/04720	GENZYME CORPORATION	PRINCIPIA BIOPHARMA INC.
2012/03379	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2021/06939	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2013/02821	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2014/00123	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2013/05165	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2016/00139	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2010/07334	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD

Application Number	Assignor	Assignee
2017/04165	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
20709/0816	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2010/03154	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2013/08833	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2008/07599	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2017/04113	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2017/08610	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2013/09129	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2009/08396	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2014/09356	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2021/06939	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2020/05705	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2020/02828	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2009/07393	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2010/04307	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2009/07394	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2012/03819	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2014/02215	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2012/09500	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2012/05705	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2013/06584	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2011/06841	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2014/04805	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2013/08834	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2010/06691	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2013/07930	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD

Application Number	Assignor	Assignee
2016/01564	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2009/07392	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2013/09414	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2012/07517	TOLMAR, INC.	BESINS HEALTHCARE LUXEMBOROUG S.A.R.L.
2008/05183	THE RODRIGUEZ AND TABET FAMILY REVOCABLE TRUST DATED JULY 28, 2015, AS AMENDED ON NOVEMBER 19, 2019	ROCK ENGINEERED MACHINERY COMPANY, INC., dba REMco
2024/02384	INNOPEAK TECHNOLOGY, INC.	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
2024/00051	ZHENGZHOU RESEARCH INSTITUTE OF MECHANICAL ENGINEERING CO., LTD	ZRIME GEARING TECHNOLOGY CO., LTD.
2011/09038	HITACHI ENERGY SWITZERLAND AG	HITACHI ENERGY LTD
2015/07553	BASF CORPORATION	BASF MOBILE EMISSIONS CATALYSTS LLC
2015/07550	BASF CORPORATION	BASF MOBILE EMISSIONS CATALYSTS LLC
2015/03449	BASF CORPORATION	BASF MOBILE EMISSIONS CATALYSTS LLC
2019/01247	PROQR THERAPEUTICS II B.V	LABORATOIRES THEA
2017/05331	PROQR THERAPEUTICS II B.V	LABORATOIRES THEA
2021/00026	XINFU (BEIJING) MEDICAL TECHNOLOGY CO., LTD.	BEIJING YISHENG BIOTECHNOLOGY CO., LTD.
2016/08166	GEBERIT INTERNATIONAL AG	GEBERIT HOLDING AG
2021/00586	ATMOR INDUSTRIES LTD.	CHROMAGEN ISRAEL LTD
2019/04856	GEBERIT INTERNATIONAL AG	GEBERIT HOLDING AG
2021/01872	ROBERTS, ERNEST, STEPHANUS, JOHANNES	JCP ROOFING (PTY) LTD
2021/02438	ONCOPEPTIDES AB	ONCOPEPTIDES INNOVATION AB
2021/07092	ONCOPEPTIDES AB	ONCOPEPTIDES INNOVATION AB
2021/02492	ONCOPEPTIDES AB	ONCOPEPTIDES INNOVATION AB
2013/08765	ONCOPEPTIDES AB	ONCOPEPTIDES INNOVATION AB
2018/02816	ONCOPEPTIDES AB	ONCOPEPTIDES INNOVATION AB
2024/00455	ONCOPEPTIDES AB	ONCOPEPTIDES INNOVATION AB
2017/07226	ONCOPEPTIDES AB	ONCOPEPTIDES INNOVATION AB
2015/03635	ONCOPEPTIDES AB	ONCOPEPTIDES INNOVATION AB
2012/06577	SHARP, DAVID A.	KADANT CANADA CORP.
2024/03255	INTERGALACTIC THERAPEUTICS, INC.	ALDEVRON, LLC
2021/10549	WEIFANG NEW GREENING CO. LTD.	WEIFANG NUCHLOR CHEMICAL CO., LTD.
2022/10237	WEIFANG NEW GREENING CO. LTD.	WEIFANG NUCHLOR CHEMICAL CO., LTD.
2014/04218	E.I. DU PONT DE NEMOURS AND COMPANY	DUPONT INDUSTRIAL BIOSCIENCES USA, LLC
2014/04218	DUPONT INDUSTRIAL BIOSCIENCES USA, LLC	COVATION INC.

Application Number	Assignor	Assignee
2018/07827	E.I. DU PONT DE NEMOURS AND COMPANY	DUPONT INDUSTRIAL BIOSCIENCES USA, LLC
2018/07827	DUPONT INDUSTRIAL BIOSCIENCES USA, LLC	COVATION INC.
2020/01681	CMTE DEVELOPMENT LIMITED	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL ORGANISATION
2019/03070	JETTI RESOURCES	JETTI RESOURCES, LLC
2019/03070	THE UNIVERSITY OF BRITISH COLUMBIA	JETTI RESOURCES, LLC
2023/05369	BASF CORPORATION	BASF MOBILE CATALYSTS LLC
2016/01318	ALSTOM TRANSPORT TECHNOLOGIES	ALSTOM HOLDINGS
2023/08002	MEDSHINE DISCOVERY INC.	D3 BIO (WUXI) CO., LTD.
2016/03860	ALSTOM TRANSPORT TECHNOLOGIES	ALSTOM HOLDINGS
2023/08161	MEDICAL DIAGNOSTECH (PTY) LTD	BIOTAG (PTY) LTD
2024/04200	ZHEJIANG CHINESE MEDICAL UNIVERSITY	YUHAO WANG
2007/04896	ARAVEN, S.L.	SHOP AND ROLL ESPANA, S.L.
2016/07194	BASF CORPORATION	BASF MOBILE EMISSIONS CATALYSTS LLC
2017/03326	BASF CORPORATION	BASF MOBILE EMISSIONS CATALYSTS LLC
2023/00152	MEDSHINE DISCOVERY INC.	CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD.
2014/08734	AICURIS GMBH & CO. KG	AIC316 GMBH
2014/01774	AICURIS GMBH & CO. KG	AIC316 GMBH
2014/01773	AICURIS GMBH & CO. KG	AIC316 GMBH
2023/02445	ZHENGZHOU UNIVERSITY OF INDUSTRIAL TECHNOLOGY	SHENZHEN JINCHAO TECHNOLOGY CO., LTD.
2020/07099	HYCROFT MINING HOLDING CORPORATION	ALDERLEY GOLD CORP.
2014/07064	SENIENT NATURAL EXTRACTION INC.	SENSIENT FLAVORS INTERNATIONSAL INC.
2022/06989	GENZYME CORPORATION	PRINCIPIA BIOPHARMA INC.

CHANGE OF NAME IN TERMS OF REGULATION 39

Application Number	In the name of	New name
2023/11595	TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION	TMEIC CORPORATION
2019/02691	MYOVANT SCIENCES GMBH	SUMITOMO PHARMA SWITZERLAND GMBH
2019/02690	MYOVANT SCIENCES GMBH	SUMITOMO PHARMA SWITZERLAND GMBH
2021/04831	THE CLIMATE CORPORATION	CLIMATE LLC
2020/01789	DELLA TOFFOLA S.P.A.	OMNIA DELLA TOFFOLA S.P.A.
2020/00407	DELLA TOFFOLA S.P.A.	OMNIA DELLA TOFFOLA S.P.A.
2023/05800	AGRICOLA LUSIA S.R.L.	ALL CITRUS S.R.L.
2012/02717	BOTANIC CENTURY (BEIJING)	REDUCOSE LIMITED

Application Number	In the name of	New name
	CO., LTD.	
2020/04574	BMA BRAUNSCHWEIGISCHE MASCHINENBAUANSTALT AG	BMA BRAUNSCHWEIGISCHE MASCHINENBAUANSTALT GMBH
2004/08928	NEXTER MUNITIONS SA	KNDS AMMO FRANCE
2020/00812	LABORATORIOS LETI S.L. UNIPERSONAL	LETI PHARMA, S.L.
2006/09449	NEXTER SYSTEMS	KNDS FRANCE
2024/00258	BMA BRAUNSCHWEIGISCHE MASCHINENBAUANSTALT AG	BMA BRAUNSCHWEIGISCHE MASCHINENBAUANSTALT GMBH
2008/04372	NEXTER SYSTEMS	KNDS FRANCE
2021/02222	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2022/03503	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2007/07512	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2013/06130	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2022/10018	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2022/10017	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2022/11003	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2022/03616	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2023/06224	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2024/01735	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2023/02900	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2022/09990	HEPTARES THERAPEUTICS LIMITED	NXERA PHARMA UK LIMITED
2020/02440	SCHOTT FLAT GLASS CR, S.R.O.	SCHOTT TERMOFROST S.R.O.
2024/01592	INSUSENSE APS	VESPER BIO APS
2022/04747	KEMPHARM, INC.	ZEVRA THERAPEUTICS, INC.
2022/09436	KEMPHARM, INC.	ZEVRA THERAPEUTICS, INC.
2022/04678	KEMPHARM, INC.	ZEVRA THERAPEUTICS, INC.

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

Application Number	Licensor	Licensee
2012/02717	BOTANIC CENTURY (BEIJING) CO. LTD.	IMINONORM LIMITED

PATENT APPLICATIONS ABANDONED OR WITHDRAWN

Application Number	Not Open	Date
2024/02145	WITHDRAWN	02/04/2024
2024/02144	WITHDRAWN	02/04/2024
2024/02641	WITHDRAWN	11/04/2024
2022/02030	WITHDRAWN	23/07/2024

APPLICATION FOR RESTORATION OF A LAPSED PATENT

THE PATENTS ACT, No. 57 OF 1978

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

Notice is hereby given that **FRASER ALEXANDER TAILINGS, A DIVISION OF FRASER ALEXANDER (PROPRIETARY) LIMITED,** whose address for service is **WOLMARANS AND SUSAN INC, RANDBURG** has applied to the registrar for the restoration of Patent No **2007/10569** entitled **HYDRAULIC MONITORING GUN**, dated **04/12/2007**, which lapsed on **04/12/2018** 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 **SUPREME MOULDINGS (PTY) LIMITED,** whose address for service is **BOUERS INC, HYDE PARK** has applied to the registrar for the restoration of Patent No **2009/03838** entitled **A DECORATIVE ELONGATE ITEM**, dated **02/06/2009**, which lapsed on **02/06/2023** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **OMNIBLEND INNOVATION PTY LIMTED,** whose address for service is **ADAMS & ADAMS, PRETORIA** has applied to the registrar for the restoration of Patent No **2016/03675** entitled **COMPOSITION AND METHOD FOR CONTROL OF POST-PRANDIAL GLUCOSE,** dated **19/11/2014**, which lapsed on **19/11/2023** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **ROBOTIC LAWN CARE SWEDEN AB** whose address for service is **SPOOR & FISHER, CENTURION** has applied to the registrar for the restoration of Patent No **2018/04254** entitled **METHOD AND MEANS FOR MOWING LAWNS**, dated **23/11/2016**, which lapsed on **23/11/2023** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **SETEVOX (PTY) LTD** whose address for service is **HAHN & HAHN INC, PRETORIA** has applied to the registrar for the restoration of Patent No **2015/01173** entitled **BLAST SHIELD FOR MINE ROOF SUPPORTS**, dated **22/07/2013**, which lapsed on **22/07/2022** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **SETEVOX (PTY) LTD** whose address for service is **HAHN & HAHN INC, PRETORIA** has applied to the registrar for the restoration of Patent No **2015/01177** entitled **MINE ROOF SUPPORT**, dated **22/07/2013**, which lapsed on **22/07/2022** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **KAMEN, ROBERT** whose address for service is **HAHN & HAHN INC, PRETORIA** has applied to the registrar for the restoration of Patent No **2019/05338** entitled **BIOHAZARDOUS MATERIAL TRANSPORTING PIG**, dated **06/06/2017**, which lapsed on **06/06/2021** 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 **PHARMA CINQ, LLC** whose address for service is **DM KISCH INC, PRETORIA** has applied to the registrar for the restoration of Patent No **2015/04954** entitled **AMINE COMPOUNDS HAVING ANTI-INFLAMMATORY, ANTIFUNGAL, ANTIPARASITIC AND ANTICANCER ACTIVITY**, dated **31/01/2014**, which lapsed on **31/01/2023** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **PHARMA CINQ, LLC** whose address for service is **DM KISCH INC, PRETORIA** has applied to the registrar for the restoration of Patent No **2018/08040** entitled **ENVELOPED VIRUS RESISTANT TO COMPLEMENT INACTIVATION FOR THE TREATMENT OF CANCER**, dated **10/05/2018**, which lapsed on **10/05/2023** owing to the non-payment of the prescribed renewal fee.

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

Notice is hereby given that **PHARMA CINQ, LLC** whose address for service is **DM KISCH INC, PRETORIA** has applied to the registrar for the restoration of Patent No **2020/03700** entitled **COMPOSITIONS AND DEVICES FOR SYSTEMIC DELIVERY OF URIDINE**, dated **01/02/2019**, which lapsed on **01/02/2023** owing to the non-payment of the prescribed renewal fee.

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

THE PATENTS ACT, No. 57 OF 1978

VOLUNTARY SURRENDER OF A PATENT UNDER SECTION 64 (1), REGULATION 67 OF THE ACT

Notice is hereby given that **FLITCH PREPAID (PTY) LTD 120 Dorp Street 7600 Stellenbosch** has offered to surrender South African Patent No: **2023/03923**. South African Patent No: **2023/03923** is deemed to be revoked as of **12/07/2024.**

Any person may give notice of opposition to the voluntary surrender of the patent within two months of the advertisement hereof.

APPLICATIONS TO AMEND SPECIFICATION

THE PATENTS ACT, 1978

APPLICATIONS TO AMEND SPECIFICATION

Applicant: KAIRISH INNOTECH PRIVATE LTD. 72-73, 7th Floor, Plot 215, Free Press House Free Press Journal Marg, Nariman Point, 400021 Mumbai. Request permission to amend the specification of letters patent no: **2023/10794** of **22/11/2023** for **APPARATUS AND SYSTEM FOR DRUG RECONSTITUTION BY LIQUID TRANSFER**.

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: UNILEVER GLOBAL IP LIMITED of **PORT SUNLIGHT, WIRRAL, MERSEYSIDE, CH62 4ZD, UNITED KINGDOM.** Request permission to amend the specification of letters patent no: **2022/12908** of **28 NOVEMBER 2022** for **SANITIZING COMPOSITION**

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: ASTELLAS PHARMA INC. a Japanese company of, 3-11, Nihonbashi-Honch 2-chome, Chuo-ku, Tokyo 103-8411., MEDIVATION PROSTATE THERAPEUTICS LLC 66 Hudson Boulevard East, New York, NY 10001-2192. Request permission to amend the specification of letters patent no: **2015/01847** of **18/03/2015** for **FORMULATIONS OF ENZALUTAMIDE.**

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: BIOREM ENGINEERING SA Rue des Cèdres, 9 1920 MARTIGNY. Request permission to amend the specification of letters patent no: **2021/01067** of **02/08/2019** for **CITRATE PERHYDRATES AND USES THEREOF**.

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

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

Registrar of Patents

Applicant: Binding Solutions Limited Materials Processing Institute, Easton Road, MIDDLESBROUGH TS6 6US, CLEVELAND, UNITED KINGDOM. Request permission to amend the specification of letters patent no: **2019/01091** of **20/02/2019** for **BRIQUETTES**.

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: STRAIT ACCESS TECHNOLOGIES HOLDINGS (PTY) LTD 313 Chris Barnard Building, University of Cape Town, Anzio Road 7925 Observatory. Request permission to amend the specification of letters patent no: **2018/06279** of **18/09/2018** for **AN INFLATABLE INSERTION DEVICE FOR PERCUTANEOUS INSERTION**.

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: KAIRISH INNOTECH PRIVATE LTD. 72-73, 7th Floor, Plot 215, Free Press House Free Press Journal Marg, Nariman Point, 400021 Mumbai. Request permission to amend the specification of letters patent no: **2023/10794** of **22/11/2023** for **APPARATUS AND SYSTEM FOR DRUG RECONSTITUTION BY LIQUID TRANSFER**.

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

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

Registrar of Patents

Applicant: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL) SE-164 83 Stockholm. Request permission to amend the specification of letters patent no: **2020/07503 of 02/12/2020** for **SIGNALING PARAMETER VALUE INFORMATION IN A PARAMETER SET TO REDUCE THE AMOUNT OF DATA CONTAINED IN AN ENCODED VIDEO BITSTREAM**.

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: JIANGSU HENGRUI MEDICINE CO., LTD. No. 7 Kunlunshan Road, Economic and Technological Development Zone, Lianyungang, Jiangsu, 222047., SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD. No. 279 Wenjing Road, Minhang District Shanghai 200245. Request permission to amend the specification of letters patent no: **2021/06721** of **10/09/2021** for **PHARMACEUTICAL COMPOSITION CONTAINING ANTIBODY AGAINST IL-5 AND USE THEREOF.**

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

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

Registrar of Patents

Applicant: ASTELLAS PHARMA INC. a Japanese company of, 3-11, Nihonbashi-Honch 2-chome, Chuo-ku, Tokyo 103-8411., MEDIVATION PROSTATE THERAPEUTICS LLC 66 Hudson Boulevard East, New York, NY 10001-2192. Request permission to amend the specification of letters patent no: **2015/01847** of **18/03/2015** for **FORMULATIONS OF ENZALUTAMIDE.**

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:

COMPLETE SPECIFICATIONS ACCEPTED AND ABRIDGEMENTS OR ABSTRACTS THEREOF

Complete specifications in respect of the under mentioned applications for letters Patent have been accepted by the Registrar of Patents.

THE PATENTS ACT, 1978 (ACT NO. 57 OF 1978)

In terms of section 42 (b) of the Patents Act, 1978, a patent shall be deemed to have been sealed and granted as from the date of publication of the acceptance.

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

Registrar of Patents

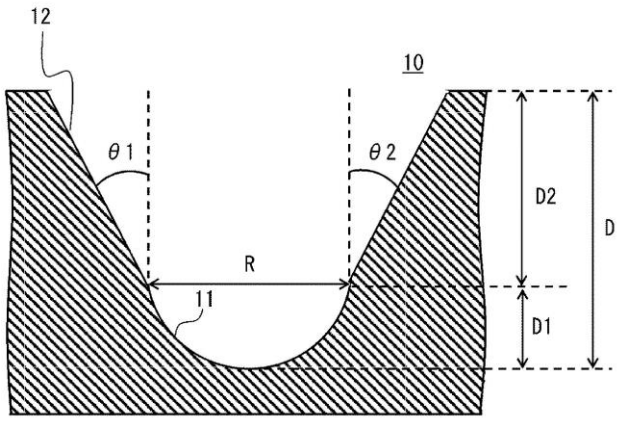
21: 2012/08460. 22: 2012/11/09. 43: 2024/05/16
51: H04N
71: Samsung Electronics Co., Ltd.
72: MIN, Jung-Hye, HAN, Woo-Jin, KIM, Il-Koo
33: US 31: 61/323,449 32: 2010-04-13
54: VIDEO-ENCODING METHOD AND VIDEO-ENCODING APPARATUS USING PREDICTION UNITS BASED ON ENCODING UNITS DETERMINED IN ACCORDANCE WITH A TREE STRUCTURE, AND VIDEO-DECODING METHOD AND VIDEO-DECODING APPARATUS USING PREDICTION UNITS BASED ON ENCODING UNITS DETERMINED IN ACCORDANCE WITH A TREE STRUCTURE
00: -

Disclosed is a video-encoding method using prediction units based on encoding units determined in accordance with a tree structure, wherein the video encoding method involves: dividing an image of a video into one or more maximum encoding units; encoding, for each maximum encoding unit, the image on the basis of encoding units for each coded depth, which are divided hierarchically in accordance with coded depths, and on the basis of partition types determined on the basis of the coded depths of the encoding units for each coded depth to determine encoding units in accordance with a tree structure; and outputting data encoded on the basis of encoding units determined in accordance with a

tree structure and on the basis of partition types, information on coded depths and encoding modes, and information on an encoding unit structure, which indicates encoding unit sizes and variable coded depths.

110 ... Unit for dividing an image into maximum encoding units
120 ... Encoding unit determining unit
130 ... Output unit

21: 2015/09018. 22: 2015/12/10. 43: 2024/05/02
51: C12M; C12N
71: Public University Corporation Yokohama City University, Corning Incorporated
72: EJIRI, Yoko, AYANO, Satoru, FUKUHARA, Naoto, TANIGUCHI, Hideki, TAKEBE, Takanori
33: JP 31: 2013-120915 32: 2013-06-07
54: CULTURE VESSEL AND CULTURE METHOD
00: -
A microspace structure for highly efficiently producing spheroids of uniform size and easily replacing and recovering culture medium is designed, and a culture vessel having the designed microspace structure is provided. A plurality of recesses (10) comprising a bottom part (11) and an opening part (12) are arranged in the culture vessel. The bottom part (11) has the shape of either a hemisphere or a truncated cone, and the opening part (12) is constituted by walls having a taper angle of from 1° to 20° and surrounding an area from the boundary with the bottom part (11) to the end part of the recess (10). In addition, the equivalent diameter at the boundary is from 50 μm to 2 mm, the depth from the bottom of the bottom part (11) to the end part is 0.6 to 3 times the equivalent diameter, the walls constituting the opening part (12) form a continuous surface with the bottom part (11), and the slope of the continuous surface changes at the boundary.

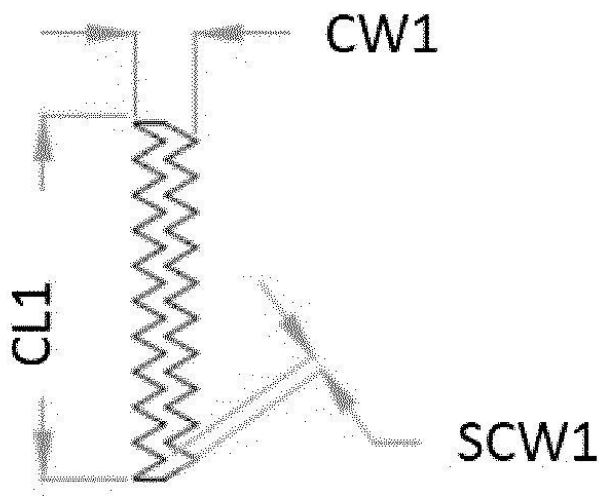


21: 2016/06939. 22: 2016/10/10. 43: 2024/05/16
51: A61K; A61Q
71: Colgate-Palmolive Company
72: PRENCIPE, Michael, FISHER, Steven Wade
54: ORAL CARE COMPOSITION CONTAINING SILICA AND ZINC CITRATE
00: -
An oral care composition comprising (a) a silica abrasive having an average particle size of no greater than the diameter of a dentin tubule, or, alternatively 8 microns or less; (b) zinc citrate, (c) a bioadhesive agent, and (d) an anticalculus agent. The oral care composition can reduce or inhibit biofilm formation and/or dentinal hypersensitivity in an oral cavity.

21: 2017/06740. 22: 2017/10/06. 43: 2024/05/23
51: A61K; C07K
71: ANAPTYSBIO, INC.
72: KEHRY, Marilyn, KING, David J., DA SILVA CORREIA, Jean
33: US 31: 62/141,353 32: 2015-04-01
54: ANTIBODIES DIRECTED AGAINST T CELL IMMUNOGLOBULIN AND MUCIN PROTEIN 3 (TIM-3)
00: -
The invention relates to an isolated immunoglobulin heavy chain polypeptide and an isolated immunoglobulin light chain polypeptide that bind to protein encoded by the T Cell Immunoglobulin and Mucin Protein - 3 (TIM-3). The invention provides a TIM-3 - binding agent that comprises the aforementioned immunoglobulin heavy chain polypeptide and immunoglobulin light chain polypeptide. The invention also provides related vectors, compositions , and methods of using the TIM-3-binding agent to treat a disorder or disease

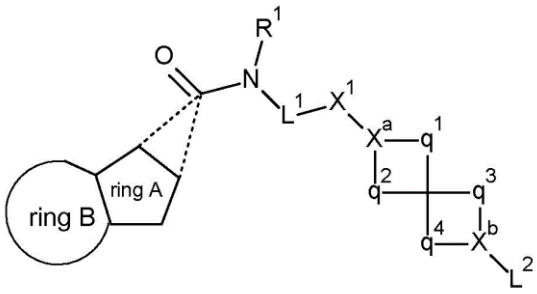
that is responsive to TIM-3 inhibition, such as cancer, an infectious disease, or an autoimmune disease.

21: 2017/08023. 22: 2017/11/24. 43: 2024/06/28
51: A24B
71: PHILIP MORRIS PRODUCTS S.A.
72: ZUCHUAT, FABIEN, VIRAG, OTTO
33: EP 31: 15169992.3 32: 2015-05-29
54: METHOD OF MAKING TOBACCO CUT FILLER
00: -
A tobacco cut filler comprises a first tobacco material cut in accordance with a first cut specification, wherein the first cut specification sets at least predetermined first cut width and first cut length



21: 2017/08667. 22: 2017/12/19. 43: 2024/05/22
51: C07D; A61K; A61P
71: PRINCIPIA BIOPHARMA INC.
72: GOLDSTEIN, DAVID, OWENS, TIMOTHY D
33: US 31: 62/170,547 32: 2015-06-03
33: US 31: 62/271,689 32: 2015-12-28
54: TYROSINE KINASE INHIBITORS
00: -
The present disclosure provides compounds that are tyrosine kinase inhibitors, in particular Bruton tyrosine kinase ("BTK") inhibitors, and are therefore useful for the treatment of diseases treatable by inhibition of BTK such as cancer, autoimmune, inflammatory, and thromboembolic diseases. Also provided are pharmaceutical compositions containing such compounds and processes for preparing such compounds.

21: 2017/08692. 22: 2017/12/20. 43: 2024/05/02
51: A61K; A61P; C07D
71: Janssen Sciences Ireland UC
72: GUILLEMONT, Jérôme Émile Georges, MOTTE, Magali Madeleine Simone, RABOISSON, Pierre Jean-Marie Bernard, TAHRI, Abdellah
33: EP(IE) 31: 15174936.3 32: 2015-07-02
54: ANTIBACTERIAL COMPOUNDS
00: -
The present invention relates to the following compounds, wherein the integers are as defined in the description, and where the compounds may be useful as medicaments, for instance for use in the treatment of tuberculosis.



(IA)

21: 2018/02119. 22: 2018/04/03. 43: 2024/06/27
51: A01C
71: PRECISION PLANTING LLC
72: STUBER, Luke
33: US 31: 62/212,419 32: 2015-08-31
54: SYSTEMS, METHODS, AND APPARATUS FOR MULTI-ROW AGRICULTURAL IMPLEMENT CONTROL AND MONITORING
00: -
Systems, methods and apparatus are provided for monitoring and controlling an agricultural implement, including seed planting implements. Systems, methods and apparatus are provided for detecting seeds being conveyed by seed conveyor. Systems, methods and apparatus are provided for monitoring and controlling deposition of secondary crop inputs such as fertilizer and insecticide.

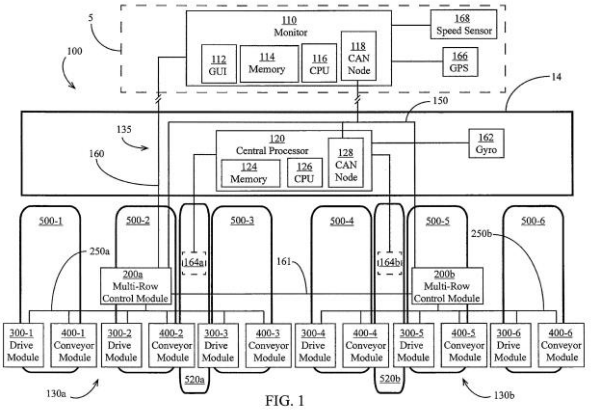
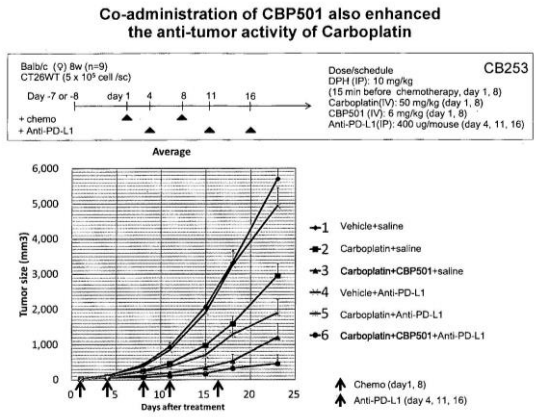


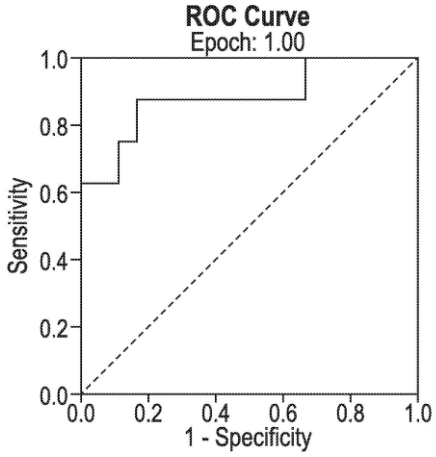
FIG. 1



21: 2018/02606. 22: 2018/04/19. 43: 2024/05/10
51: A61K; A61Q
71: Colgate-Palmolive Company
72: MORGAN, Andre, MELLO, Sarita Vera, GEORGES, Marian
54: COMPOSITIONS FOR DENTAL VARNISHES AND METHODS OF MAKING AND USING SAME
00: -
The disclosure describes compositions for dental varnishes, methods of making the compositions, and methods of using the compositions, such as in the treatment and prevention of hypersensitivity in teeth.

21: 2018/02966. 22: 2018/05/07. 43: 2024/05/16
51: A61K; A61P; C07K
71: CanBas Co., Ltd.
72: KAWABE, Takumi
33: US 31: 62/245,899 32: 2015-10-23
54: PEPTIDES AND PEPTIDOMIMETICS IN COMBINATION WITH T CELL ACTIVATING AND/OR CHECKPOINT INHIBITING AGENTS FOR CANCER TREATMENT
00: -
This invention provides compounds including peptides and peptidomimetics that can be used to treat cell proliferative disorders, such as those associated with benign and malignant tumor cells, and combinations of T cell activating agents and/or an immune checkpoint inhibitors with and without peptides and peptidimimetics. The invention compounds and combinations can be used to inhibit cell growth, such as treat a tumor or cancer.

21: 2018/07505. 22: 2018/11/08. 43: 2024/05/23
51: C07J; G01N
71: Indiana University Research & Technology Corporation
72: PATIL, Dr. Avinash Shivaputrappa
33: US 31: 62/332,174 32: 2016-05-05
54: QUANTITATIVE PROFILING OF PROGESTERONE METABOLITES FOR THE PREDICTION OF SPONTANEOUS PRETERM DELIVERY
00: -
Disclosed are methods for identifying a pregnant female who is susceptible to spontaneous preterm delivery. In particular, disclosed are methods for identifying a pregnant female who is susceptible to spontaneous preterm delivery based on ratios of steroids in samples obtained from the pregnant female.



21: 2018/07769. 22: 2018/11/19. 43: 2024/05/16
51: A61K; A61Q
71: Colgate-Palmolive Company

72: DOGO-ISONAGIE, Cajetan, FEI, Lin, CHOPRA, Suman, GRONLUND, Jennifer

54: PEROXYMONOSULFATE TOOTHPOWDER COMPOSITION FOR TENACIOUS STAINS

00: -

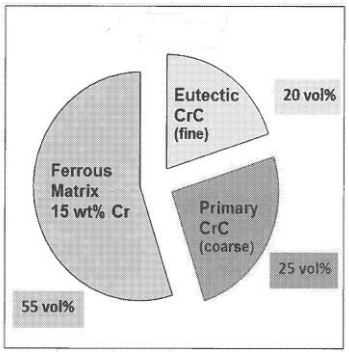
A solid oral care composition, e.g., a tablet or powder, comprising an alkali metal peroxymonosulfate as an effective bleaching agent for the bleaching of tenacious tooth stains, such as tobacco stains and coffee stains.

21: 2018/08422. 22: 2018/12/13. 43: 2024/06/27
51: C22C
71: Weir Minerals Australia Ltd
72: DOLMAN, Kevin Francis, LUCEY, Timothy Justin
33: AU 31: 2016902490 32: 2016-06-24

54: EROSION AND CORROSION RESISTANT WHITE CAST IRONS

00: -

A casting of a hypereutectic white iron that, in an as-cast form of the casting, has a microstructure that includes a ferrous matrix that contains 12-20 wt.% chromium in solution in the matrix, eutectic chromium carbides dispersed in the matrix, primary chromium carbides dispersed in the matrix, and optionally secondary carbides dispersed in the matrix. The eutectic carbides are 15-25 vol.% of the casting and the primary carbides are 25-35 vol.% of the casting. When present, the secondary carbides are up to 6 vol.% of the casting.



21: 2019/00173. 22: 2019/01/10. 43: 2024/05/22
51: C22C
71: Uddeholms AB
72: KARAMCHEDU, Venkata Seshendra, MEDVEDEVA, Anna, OIKONOMOU, Christos, SPARREVOHN VANG, Jesper Erik Joachim, DAMM, Petter
33: SE 31: 1650850-9 32: 2016-06-16

54: STEEL SUITABLE FOR PLASTIC MOULDING TOOLS

00: -

The invention relates steel suitable for plastic moulding tools. The steel comprises the following main components (in wt. %): C 0.02 -0.04, Si 0.1 -0.4, Mn 0.1 -0.5, Cr 11 -13, Ni 7-10, Mo 1 -25, Al 1.4 -2.0, N 0.01 -0.15, optional elements and impurities balance. The invention is also directed to pre-alloyed powders made from said alloy, the use of 1 such powder as well as AM articles produced from said powder.

21: 2019/00367. 22: 2019/01/18. 43: 2024/05/16
51: A61K; A61P
71: ISA Pharmaceuticals B.V.
72: MULDER, Gwenn Eveline
33: EP(NL) 31: 16175215.9 32: 2016-06-20

54: FORMULATION OF A PEPTIDE VACCINE

00: -

The invention relates to a novel reconstitution composition, a pharmaceutical composition and kit of parts comprising said reconstitution composition. The invention further relates to a method of treatment using said pharmaceutical composition and/or the pharmaceutical composition for use as a medicament. Also provided is a method for reconstituting dried peptides and a method for preparing a pharmaceutical composition using the reconstitution composition of the invention.

21: 2019/01050. 22: 2019/02/19. 43: 2024/05/16
51: F04D
71: KSB SAS
72: PETIT, Nicolas, GONZALEZ, Stéphanie, KAMINSKI, Mateusz, JAGER, Christoph
33: FR 31: 18 70195 32: 2018-02-22

54: FINGER PUMP

00: -

In this pump, the angle between the imaginary tangent plane to the lip and passing through the axis and an imaginary straight line, perpendicular to the axis and passing through the point furthest from the axis of intersection of the upper surface of a finger with the lateral leading surface of this finger, is between 110 and 140°.

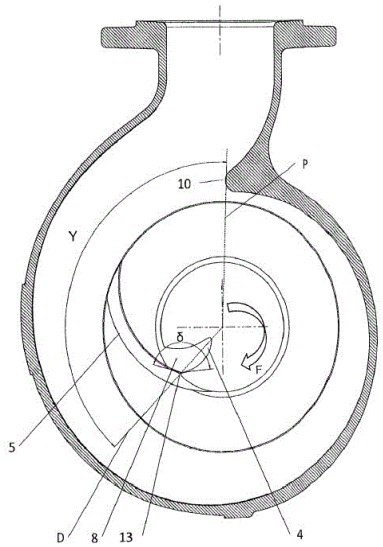
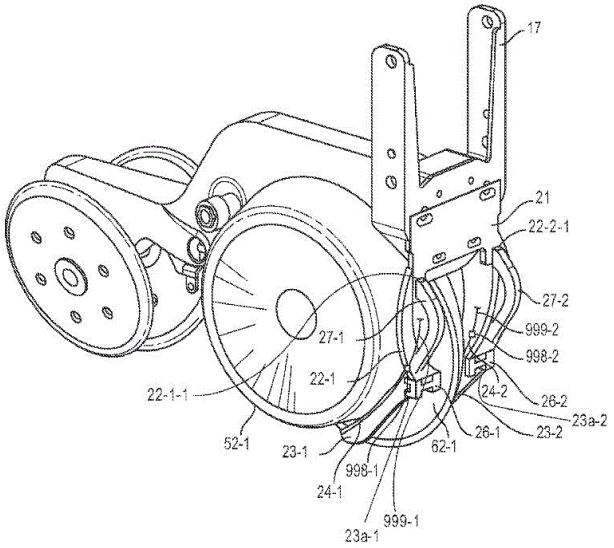


Fig. 3

View from above

21: 2019/01657. 22: 2019/03/18. 43: 2024/06/10
51: A01B; A01C
71: PRECISION PLANTING LLC
72: HODEL, Jeremy, URBANIAK, Douglas
33: US 31: 62/395,840 32: 2016-09-16
33: US 31: 62/423,724 32: 2016-11-17
33: US 31: 62/436,935 32: 2016-12-20
33: US 31: 62/447,810 32: 2017-01-18
33: US 31: 62/526,201 32: 2017-06-28
54: SYSTEMS, METHODS, AND APPARATUS FOR AGRICULTURAL MATERIAL APPLICATION
00: -
Described herein is an agricultural row unit that has a knife disposed ahead of the gauge wheel for delivering material to soil adjacent to a trench. In one example, an agricultural toolbar includes a frame, a wheel mounted to the frame, and a knife disposed ahead of the wheel and comprising a material delivery conduit disposed on, through, or adjacent the knife.

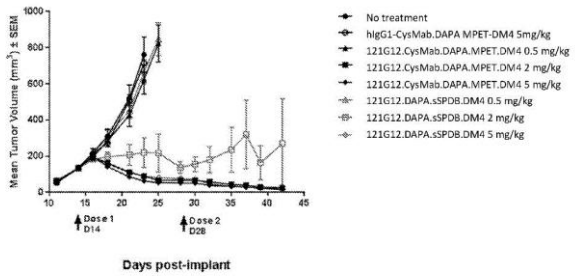


21: 2019/02247. 22: 2019/04/10. 43: 2024/07/04
51: A01N; A61B; A61K
71: BIOVERATIV USA INC.
72: PANICKER, Sandip, PARRY, Graham, STAGLIANO, Nancy, E.
33: US 31: 62/407,390 32: 2016-10-12
54: ANTI-C1S ANTIBODIES AND METHODS OF USE THEREOF
00: -
The present disclosure provides antibodies that specifically bind complement pathway component C1s. The present disclosure provides nucleic acids comprising nucleotide sequences encoding the anti-C1s antibodies; and host cells comprising the nucleic acids. The present disclosure provides compositions comprising the anti-C1s antibodies. The present disclosure provides methods of use of the anti-C1s antibodies.

21: 2019/02969. 22: 2019/05/13. 43: 2024/05/27
51: B01J C01B
71: BASF SE
72: PARVULESCU, Andrei-Nicolae, MÜLLER, Ulrich, VOGELSANG, Regina, BRUNS, Nicole, Sabine, WEIDERT, Jan-Oliver
33: EP 31: 16203604.0 32: 2016-12-13
54: A PROCESS FOR THE PREPARATION OF A TITANIUM-CONTAINING ZEOLITE
00: -
A process comprising hydrothermally synthesizing a titanium-containing zeolitic material having framework type MWW in the presence of an MWW template compound, obtaining a mother liquor

comprising water, a first portion of the MWW template compound and a titanium-containing zeolitic material having framework type MWW comprising a second portion of the MWW template compound, separating the first portion of the MWW template compound from the mother liquor and recycling the first portion of the MWW template compound into a hydrothermal synthesis of a titanium-containing zeolitic material having framework type MWW.

21: 2019/04218. 22: 2019/06/27. 43: 2024/07/08
51: A61K; C07K
71: NOVARTIS AG
72: BENDER, Steven, CHARLTON, Tracy, GALKIN, Anna, GEIERSTANGER, Bernhard, GLASER, Scott, Martin, KASIBHATLA, Shailaja, KNUTH, Mark, ROTTMANN, Sabine, RUE, Sarah, SPRAGGON, Glen, UNO, Tetsuo
33: US 31: 62/454,476 32: 2017-02-03
54: ANTI-CCR7 ANTIBODY DRUG CONJUGATES
00: -
This application discloses anti-CCR7 antibodies, antigen binding fragments thereof, and antibody drug conjugates of said antibodies or antigen binding fragments. The invention also relates to methods of treating or preventing cancer using the antibodies, antigen binding fragments, and antibody drug conjugates. Also disclosed herein are methods of making the antibodies, antigen binding fragments, and antibody drug conjugates, and methods of using the antibodies and antigen binding fragments as diagnostic reagents.



21: 2019/04779. 22: 2019/07/19. 43: 2024/05/16
51: A61M
71: Johnson & Johnson Consumer Inc.
72: ALARY, Marc, HOPSON, Peyton, LIU, Jan-Joo, LUNDE, Erik, PATEL, Bharat, MORANO, Emanuel
33: US 31: 62/437,800 32: 2016-12-22
54: MICRONEEDLE ARRAYS AND METHODS FOR MAKING AND USING
00: -
An array of differing microneedles can be accurately achieved including a film having first (22) and second (24), outwardly facing major surfaces. The first, outwardly facing major surface has a plurality of stratum comeum piercing microneedles extending therefrom, and the plurality of microneedles includes a plurality of first microneedles having a first benefit agent and a plurality of second microneedles having a second benefit agent.

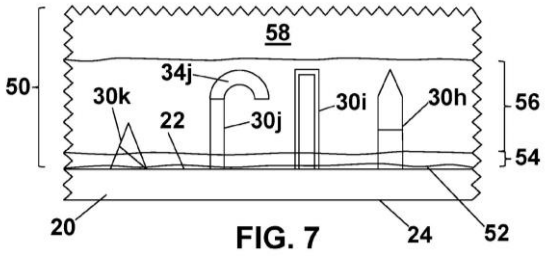
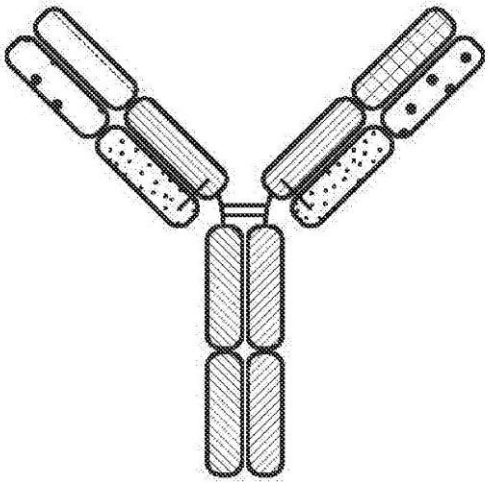


FIG. 7

21: 2019/05462. 22: 2019/08/19. 43: 2024/05/16
51: A61K; C07K; C12N; C12P
71: Dragonfly Therapeutics, Inc.
72: CHANG, Gregory P., CHEUNG, Ann F., HANEY, William, LUNDE, Bradley M., PRINZ, Bianka
33: US 31: 62/461,146 32: 2017-02-20
54: PROTEINS BINDING HER2, NKG2D AND CD16
00: -
Multi-specific binding proteins that bind HER2, the NKG2D receptor, and CD 16 are described, as well as pharmaceutical compositions and therapeutic methods useful for the treatment of cancer.



21: 2019/07025. 22: 2019/10/24. 43: 2024/05/22
51: A61M; A61N
71: Milestone Scientific, Inc.
72: HOCHMAN, Mark N., CHOQUET, Olivier
33: US 31: 15/587,119 32: 2017-05-04
33: US 31: 62/501,546 32: 2017-05-04
54: METHOD AND APPARATUS FOR PERFORMING A PERIPHERAL NERVE BLOCK
00: -
A system for infusing medication into a mammalian subject is provided. The system includes an injection system for controlling a flow of fluid from a fluid reservoir to a needle. A sensor is provided that detects a characteristic indicative of the fluid pressure in the needle. The injection system controls the flow of fluid to the needle in response to the characteristic detected by the sensor and the sensor continuously detects the characteristic as the needle is inserted into the subject. The system further includes a conductive element for providing electric nerve stimulation, wherein the system provides electric nerve stimulation in response to the sensor detecting a pressure exceeding an upper limit.

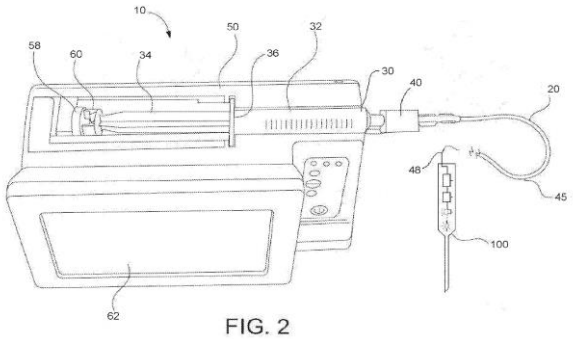
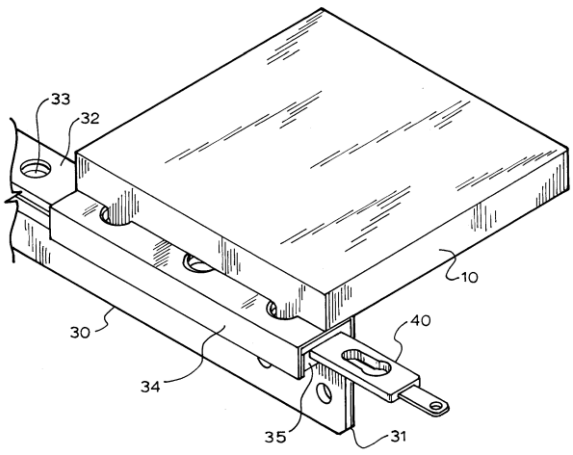


FIG. 2

21: 2019/07580. 22: 2019/11/15. 43: 2024/06/28
51: B07B
71: SCHENCK PROCESS AUSTRALIA PTY LIMITED
72: MAMMADOV, Asad, THANGAVELU, Murugavel, STRONG, Craig
33: AU 31: 2017902146 32: 2017-06-06
54: MINING SCREENING PANEL FIXING SYSTEM
00: -
To address the problem of safety and ease of installation of mining screen panels it is proposed to provide a system where panels can be placed in position and then locked using a mechanical or electrical actuation. The lugs of the screen panels are locked an actuatable mechanism, that allows the panels to be placed and then secured by actuation. The actuation mechanism is preferably enclosed in a beam below the panel.



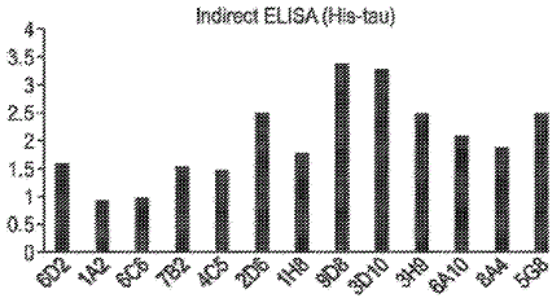
21: 2019/07819. 22: 2019/11/26. 43: 2024/05/15
51: C07K A61K
71: PROTHENA BIOSCIENCES LIMITED
72: PAYNE, Philip, BARBOUR, Robin, ALEXANDER, Svetlana, RENZ, Mark, E., GAI,

Shuning, DOLAN, Philip, James, NIJJAR, Tarlochan, S.
33: US 31: 62/500,427 32: 2017-05-02
33: US 31: 62/580,408 32: 2017-11-01

54: ANTIBODIES RECOGNIZING TAU

00: -

The invention provides antibodies that specifically bind tau. The antibodies inhibit or delay tau-associated pathologies and associated symptomatic deterioration.



21: 2019/07822. 22: 2019/11/26. 43: 2024/05/16
51: A01K; C12N
71: EGGXYT LTD
72: OFFEN, Daniel
33: US 31: 62/510,921 32: 2017-05-25

54: METHODS FOR GENDER DETERMINATION OF AVIAN EMBRYOS IN UNHATCHED EGGS AND MEANS THEREOF

00: -

The present invention relates to methods of fertilization and gender determination and identification in avian subjects. More specifically, the invention provides non-invasive methods using transgenic avian animals that comprise at least one reporter gene, specifically, RFP, integrated into at least one gender chromosome Z or W. The transgenic avian animals of the invention are used for gender determination and selection of embryos in unhatched avian eggs.

21: 2019/08057. 22: 2019/12/04. 43: 2024/05/23
51: C12Q
71: EVONIK OPERATIONS GMBH
72: FLÜGEL, Monika, PELZER, Stefan, VAN IMMERSEEL, Filip, DUCATELLE, Richard, GOOSSENS, Evy, HARK, Sarah, THIEMANN, Frank, BÖHL, Florian
33: EP 31: 17170811.8 32: 2017-05-12
33: US 31: 62/531,000 32: 2017-07-11
33: CN 31: 201710646838.1 32: 2017-08-01

54: METHOD FOR DETECTING C. PERFRINGENS INDUCED DISEASES IN ANIMALS

00: -

The present invention relates to a method for detecting C. perfringens induced diseases in animals, the method comprising: a) collecting sample material of a specific animal or of a specific group of animals at consecutive points in time; b) determining the amount of a first marker and a second marker contained in the sample material; and c) determining the ratio of the first marker to the second marker contained in the sample material; wherein the first marker comprises a polynucleotide sequence being specific for the C. perfringens sub-species inducing the targeted disease; and the second marker comprises a polynucleotide being specific for the species C. perfringens; and wherein an increase in the ratio of the first marker to the second marker in the analyzed sample material over time is an indication of the targeted disease.

21: 2019/08476. 22: 2019/12/19. 43: 2024/05/16
51: A23C; A23J; A23L
71: Société des Produits Nestlé S.A.
72: SCHMITT, Christophe Joseph Etienne, MARCHESINI, Giulia, WILDE, Sandra Catharina, KOLODZIEJCZYK, Eric Stanislas, PHILIP, Coline
33: EP(CH) 31: 17174035.0 32: 2017-06-01

54: A METHOD OF PRODUCING A FOOD OR BEVERAGE PRODUCT WITH FREE DIVALENT CATIONS DAIRY AND PLANT PROTEIN AGGREGATION

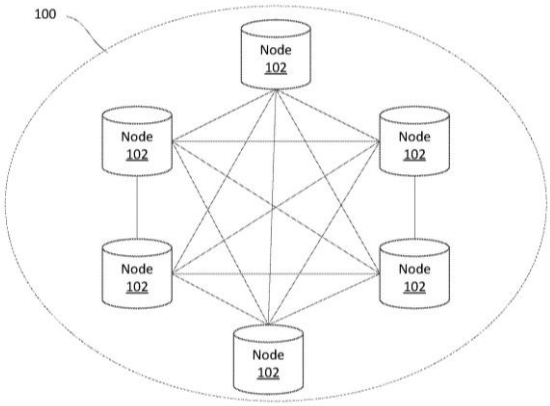
00: -

The invention relates to a method of producing a food or beverage product, comprising the steps of: providing an ingredient composition comprising micellar caseins, whey protein and plant protein having a pH of 5.9 - 7.1, preferably 6.2 - 6.8, and having a concentration of 1 to 15 wt. % of total proteins, and wherein the composition has a micellar casein to whey protein ratio of, 90/10 to 60/40 and a micellar caseins and whey protein to plant protein ratio of 80/20 to 20/80, adding divalent cations to provide a concentration of 2.0 - 10 mM free divalent cations in the ingredient composition and subsequently heat treating the ingredient composition to form agglomerated proteins comprising micellar casein, whey protein and plant proteins, the agglomerates having a size of 5 to 50 microns as measured by D(4,3) mean diameter as

measured by laser diffraction. The invention also relates to a product obtained by this method.

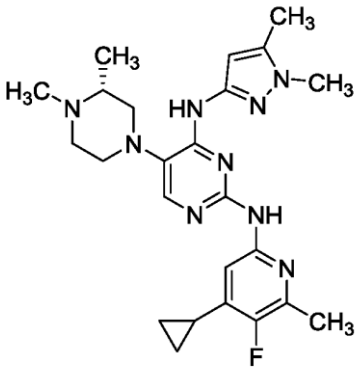
21: 2020/00535. 22: 2020/01/27. 43: 2024/05/13
51: H04L
71: nChain Holdings Limited
72: JOSEPH, Daniel
33: GB 31: 1710283.1 32: 2017-06-28
54: System and Method for Hierarchical Token Distribution on Blockchain Network
00: -

A method to participate in a blockchain-implemented token distribution process is disclosed. The token distribution process divides an initial quantity of tokens at an input address associated with an input node into a plurality of sub-quantities and distributes the sub-quantities to multiple output addresses associated with respective output nodes using a blockchain. The token distribution process is implemented collectively by the input node, the output nodes, and a plurality of mixer nodes. The method, which may be implemented at a mixer node (*Uij*), includes: identifying an upstream node (*Ui*) and a plurality of downstream nodes (*Uijk*) associated with the mixer node; collaborating with the upstream node to generate a first commitment channel (*Ui*→ *Uij*) for a first transaction between the upstream node and the mixer node; and for each of the plurality of downstream nodes: collaborating with the downstream node to generate a second commitment channel (*Uij*→ *Uijk*) for a second transaction between the mixer node and the downstream node, wherein an unlocking script for the first transaction is derived from an unlocking script for any one of the second transactions.



21: 2020/00903. 22: 2020/02/12. 43: 2024/06/11
51: A61K; C07D; A61P
71: ZYDUS LIFESCIENCE LIMITED
72: SINGH, Kumar Kamlesh, SINGH, Nikhil Amar, CHARAN, Ganapatdan Shimbhu, SHAH, Nimeshkumar Mukeshkumar, NARODE, Sunil Dnyaneshwar, VACHHANI, Dipakkumar Dhanjibhai, PATIL, Amol Kashinath, KHAIRNAR, Sandip Pundlik
33: IN 31: 201721031453 32: 2017-09-05
33: IN 31: 201721034342 32: 2017-09-27
54: A PROCESS FOR PREPARATION OF TRIAMINOPYRIMIDINE COMPOUND AND INTERMEDIATES THEREOF
00: -

The present invention relates to triaminopyrimidine compound 1, or pharmaceutically acceptable salts thereof, or hydrates, or solvates, or polymorphs, or optically active forms thereof, in solid state forms. The invention also relates to a process for preparation of triaminopyrimidine compound and intermediates thereof. The present invention also relates to a pharmaceutical composition comprising pure triaminopyrimidine compound, useful for preventing or treating malaria.

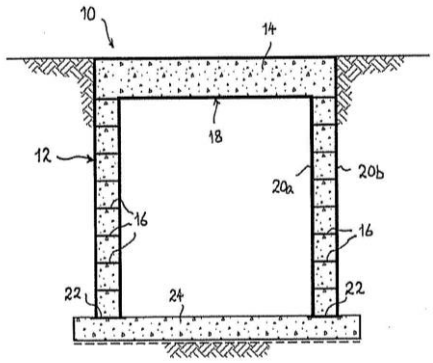


1

21: 2020/01036. 22: 2020/02/19. 43: 2024/07/17
51: E04B; E04G
71: LYCOPODIUM MINERALS PTY LTD
72: RUGGIERO, Bruno, LAIRD, John, Muir
33: AU 31: 2019901106 32: 2019-04-01
54: INTEGRATED FORMWORK METHOD FOR CONCRETE STRUCTURES
00: -

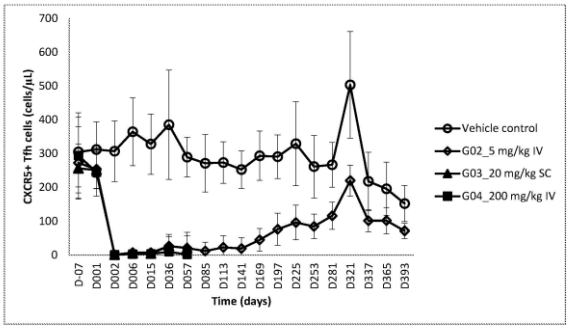
A method of constructing an integrated formwork and reinforced concrete structure 18 is described. The method comprises providing an exterior steel shell 12 adapted to provide reinforcement and also to function as a formwork for concrete. The exterior

steel shell 12 includes a plurality of ties and reinforcing elements 16 which also serve to maintain dimensional stability prior to concrete placement. The method also comprises pouring concrete 14 into the exterior steel shell 12 and allowing it to cure to form a reinforced concrete structure 18. In use, the exterior steel shell 12 forms a permanent and integral component of the reinforced concrete structure 18. An integrated formwork and reinforcement arrangement 10 for a reinforced concrete structure is also provided.



21: 2020/01883. 22: 2020/03/24. 43: 2024/05/22
51: C23C C11D C23G
71: CHEMETALL GMBH
72: DAHLENBURG, Olaf, KOLBERG, Thomas, SEIDER, Lisa
33: EP 31: 17188783.9 32: 2017-08-31
54: IMPROVED METHOD FOR NICKEL-FREE PHOSPHATING METAL SURFACES
00: -
The present invention relates to a method for the substantially nickel-free phosphating of a metal surface, in which a metal surface is treated with the following compositions one after the other: i) with an alkaline, aqueous cleaning agent composition, which contains at least a water-soluble silicate, and ii) with an acidic, aqueous, substantially nickel-free phosphating composition, which comprises zinc ions, manganese ions and phosphate ions. The invention also relates to the above cleaning agent composition itself and to a metal surface phosphate-coated by means of the above method and use thereof.

21: 2020/02760. 22: 2020/05/14. 43: 2024/07/02
51: C07K
71: Pfizer Inc., THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
72: GROTH, Rachel, SNYDER, William, Brian, CAO, Xianjun, DUNN, Robert, Joseph, DAL PORTO, Joseph, KARIN, Michael
33: US 31: 62/593,830 32: 2017-12-01
33: US 31: 62/732,985 32: 2018-09-18
54: ANTI-CXCR5 ANTIBODIES AND COMPOSITIONS AND USES THEREOF
00: -
The invention provides antibodies, and antigen-binding fragments thereof, that specifically bind to CXCR5. The antibodies can be afucosylated and exhibit increased ADCC compared with the otherwise identical fucosylated antibodies. The invention includes uses, and associated methods of using the antibodies.

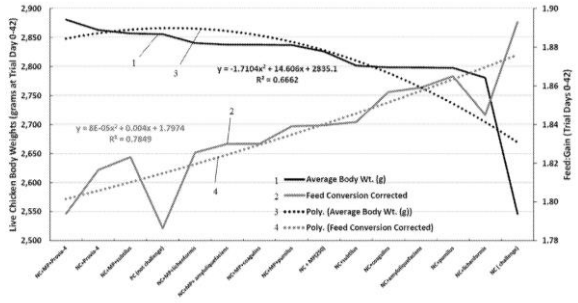


21: 2020/03070. 22: 2020/05/25. 43: 2024/07/02
51: A61K; C12N
71: INSTITUT PASTEUR, CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE
72: MATEO, Mathieu, BAIZE, Sylvain, TANGY, Frédéric
33: US 31: 62/609,155 32: 2017-12-21
54: LASSA VACCINE
00: -
The invention relates to recombinant measles virus expressing Lassa virus polypeptides, and concerns in particular immunogenic LASV particles expressed by a measles virus and/or virus like particles (VLPs) that contain proteins of a Lassa virus. These particles are recombinant infectious particles able to replicate in a host after an administration. The invention provides means, in particular nucleic acid constructs, vectors, cells and rescue systems to produce these recombinant infectious particles. The invention also relates to the use of these recombinant infectious particles, in particular under the form of a composition, more particularly in a

vaccine formulation, for the treatment or prevention of an infection by Lassa virus.

21: 2020/04572. 22: 2020/07/23. 43: 2024/05/22
51: A23K
71: OmniGen Research, LLC
72: JOHNSON, A. Bruce, BAFUNDO, Kenneth W.
33: US 31: 62/621,196 32: 2018-01-24
54: BACILLUS COMBINATION FOR ADMINISTRATION TO ANIMALS
00: -

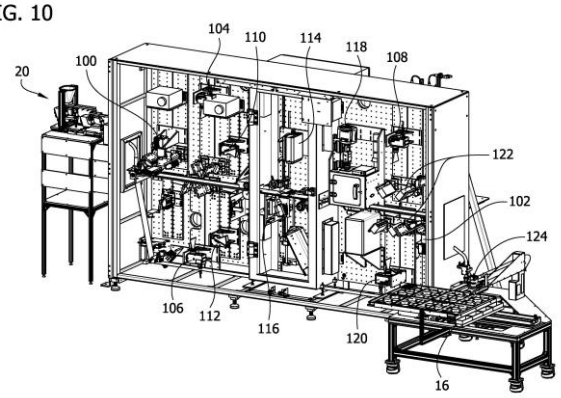
Embodiments of a composition comprising three or four Bacillus species selected from *Bacillus amyloliquefaciens*, *Bacillus subtilis*, *Bacillus licheniformis* and *Bacillus coagulans* are disclosed. The composition may further comprise, or be used in combination with, feed and/or feed supplements, including feed supplements comprising yucca, quillaja, silica, mineral clay, glucan, mannans, or combinations thereof. Also disclosed is a method of administering the composition and/or combination to animals, such as poultry.



21: 2020/05450. 22: 2020/09/01. 43: 2024/07/08
51: A01C; B07C
71: MONSANTO TECHNOLOGY LLC
72: BORROWMAN, Eric L., CHAUDHARY, Govind, KOHNE, Jeffrey L., WHITE, Brad D., ZHANG, Chi, CHEN, Hsin-Chen, KOTYK, Johnny, J., POMPE VAN MEERDERVOORT, Louis, M., RADER, Randall, K.
33: US 31: 62/642,684 32: 2018-03-14
54: SEED IMAGING
00: -

A seed imaging system for imaging seeds includes a seed transfer station configured to move seeds through the system. An imaging assembly includes a first camera mounted relative to the seed transfer station and configured to acquire images of the seeds as the seeds move through the system. A second camera is mounted relative to the seed transfer station and is configured to acquire images of the seeds as the seeds move through the system. The second camera has an imaging modality different from an imaging modality of the first camera. First and second cameras may be disposed above and below the seed transfer stations, such as a transparent belt.

FIG. 10



21: 2020/05801. 22: 2020/09/18. 43: 2024/07/18
51: C07K
71: SANOFI
72: DUTHE, Didier, HEMET, Céline, MOTHES, Benoit, PEZZINI, Jérome
33: EP 31: 18305338.8 32: 2018-03-27
54: FULL FLOW-THROUGH PROCESS FOR PURIFYING RECOMBINANT PROTEINS
00: -

The present invention concerns a method for purifying a protein comprising in a continuous mode: one filtration step involving the use of at least one chelating agent, an exchanging step involving the use of at least one diafiltration membrane, and a polishing step involving the use of a combination of membrane adsorbers, wherein two membrane adsorbers of said combination are orthogonal in terms of mechanism of action.

21: 2020/06285. 22: 2020/10/09. 43: 2024/05/22
51: B21J; B21K
71: Clinton Machine, Inc.
72: LOZNAK, Ted L., DOMAGALA, Thomas Stanley
33: US 31: 62/656,630 32: 2018-04-12
54: INDUCTION HEATING LINE BILLET PUSHOUT SYSTEM AND METHOD WITH JOINTED PUSH ROD ASSEMBLY
00: -

A billet pushout system is provided for an electric induction billet heating line with long length revolute

jointed pushout rods forming a non-jamming pushout rod assembly that is stored in a linear enclosure connected to an arcuate enclosure that deploys and retracts the pushout rod assembly to and from the electric induction billet heating line.

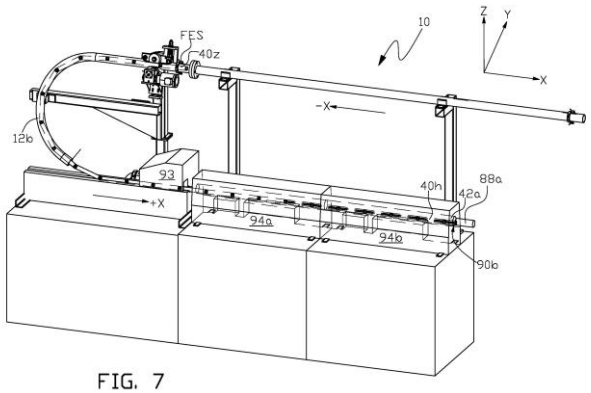


FIG. 7

21: 2020/06503. 22: 2020/10/20. 43: 2024/07/08
51: A01K; C07K
71: REGENERON PHARMACEUTICALS, INC.
72: LAI, Ka-man, Venus, MUJICA, Alexander, O., HAXHINASTO, Sokol, MURPHY, ANDREW, J, ZARUHI, Hovhannisyan
33: US 31: 62/698,459 32: 2018-07-16
33: US 31: 62/867,477 32: 2019-06-27

54: NON-HUMAN ANIMAL MODELS OF DITRA DISEASE AND USES THEREOF

00: -

This disclosure relates to genetically modified rodent animals and rodent models of human diseases. More specifically, this disclosure relates to genetically modified rodents whose genome comprises a humanized Il1rl2 gene (coding for the IL1rl2 subunit of the IL-36R protein) and human IL-36, and ligand genes. The genetically modified rodents disclosed herein display enhanced skin and intestinal inflammation as a preclinical model of psoriasis and IBD, respectively, and serve as a rodent model of human DITRA disease.

21: 2020/06504. 22: 2020/10/20. 43: 2024/07/08
51: A61K; C07K; A61P
71: REGENERON PHARMACEUTICALS, INC.
72: PEREZ BAY, Andres, ANDREEV, Julian, POTOCKY, Terra, DUAN, Xunbao
33: US 31: 62/664,924 32: 2018-04-30
33: US 31: 62/728,622 32: 2018-09-07
33: US 31: 62/825,144 32: 2019-03-28

54: ANTIBODIES, AND BISPECIFIC ANTIGEN-BINDING MOLECULES THAT BIND HER2 AND/OR APLP2, CONJUGATES, AND USES THEREOF

00: -

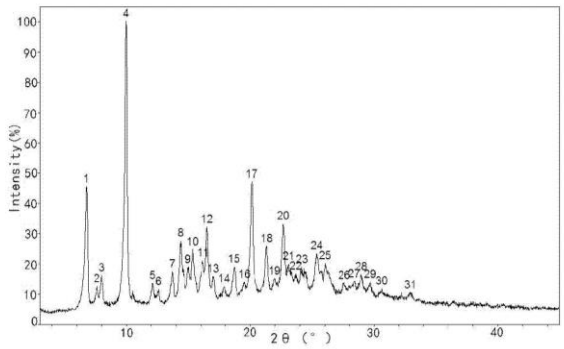
The protein known as human epidermal growth factor 2 (HER2) is expressed in breast cancer cells and its expression is correlated with aggressive tumor growth. The present invention provides novel full-length human (IgG) antibodies that bind to human HER2 (monospecific antibodies) or to APLP2 (monospecific antibodies). The present invention also provides novel bispecific antibodies (bsAbs) that bind to both HER2 and APLP2 and mediate internalization and degradation of HER2 via the APLP2 complex in the presence of HER2-expressing tumors. Described are bispecific antigen-binding molecules and ADCs comprising a first antigen-binding domain that specifically binds human APLP2, and a second antigen-binding domain that specifically binds human HER2. The described bispecific ADCs are capable of inhibiting the growth of certain tumors expressing HER2 and may be useful for the treatment of breast cancer and disorders in which targeting a therapeutic agent to HER2-expressing tumor cell is desirable and/or therapeutically beneficial. For example, the bispecific antibodies of the invention are useful for the treatment of breast cancers, including breast cancers having a IHC2+ classification. The present invention also includes anti-HER2 antibody drug conjugates which inhibit tumor growth in vivo.

21: 2020/07034. 22: 2020/11/11. 43: 2024/05/02
51: C07D
71: Hutchison MediPharma Limited
72: WU, Zhenping, LI, Wenji, FENG, Ling
33: CN 31: 201810360892.4 32: 2018-04-20

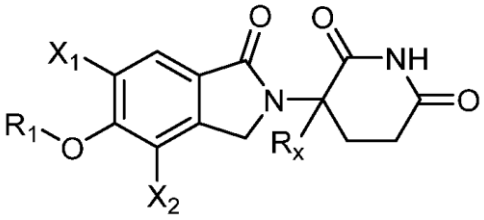
54: THE CRYSTALLINE FORMS OF A COMPOUND

00: -

The present invention belongs to the pharmaceutical field, and provides crystalline forms, solvates and the crystalline forms thereof of the compound (*S*)-4-amino-6- ((1- (3-chloro-6-phenylimidazo [1, 2-*b*] pyridazin-7-yl) ethyl) amino) pyrimidine-5-carbonitrile, and the pharmaceutical compositions comprising the same as well as the methods of preparing the same and the use thereof.

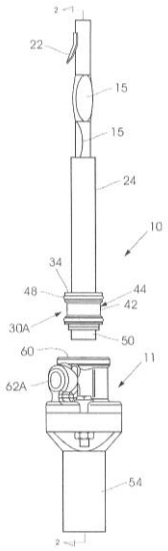


21: 2020/07154. 22: 2020/11/17. 43: 2024/07/19
51: A61K; C07D; A61P
71: NOVARTIS AG
72: THOMSEN, Noel, Marie-France, BONAZZI, Simone, CERNIJENKO, Artiom, VISSER, Michael, Scott, ADCOCK, Claire, LAM, Philip, LINKENS, Kathryn Taylor, MALIK, Hasnain Ahmed
33: US 31: 62/695,920 32: 2018-07-10
33: US 31: 62/835,543 32: 2019-04-18
54: 3-(5-HYDROXY-1-OXOISOINDOLIN-2-YL)PIPERIDINE-2,6-DIONE DERIVATIVES AND THEIR USE IN THE TREATMENT OF IKAROS FAMILY ZINC FINGER 2 (IKZF2)-DEPENDENT DISEASES
00: -
The present disclosure provides a compound of Formula (I'): or a pharmaceutically acceptable salt, hydrate, solvate, prodrug, stereoisomer, or tautomer thereof, wherein Rx, X1, X2, and R1 are as defined herein, and its use in the treatment of IKAROS Family Zinc Finger 2 (IKZF2)-dependent diseases.



(I')

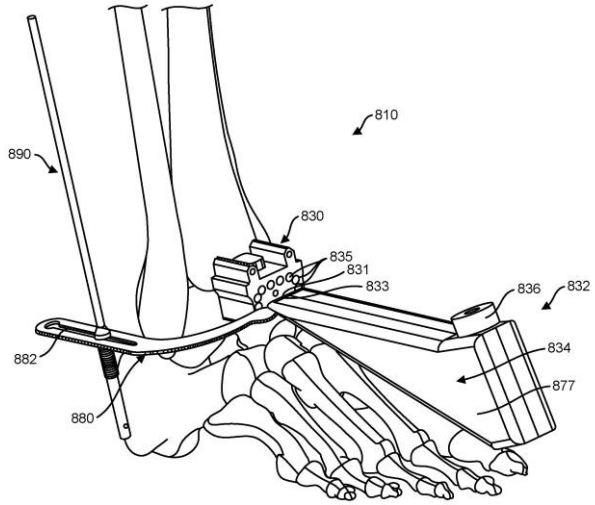
21: 2020/07181. 22: 2020/11/18. 43: 2024/07/11
51: E21D
71: INNOVATIVE MINING PRODUCTS (PTY) LTD
72: CROMPTON, Brendan Robert, CAWOOD, Martin, ABREU, Rual, PASTORINO, Paolo Ettore
33: ZA 31: 2019/07725 32: 2019-11-22
54: RESIN-GROUTED ROCK BOLT ASSEMBLY WITH AN ADAPTED SEALING BUSH
00: -
A single-use sealing bush which is adapted to form a sealing interface between a rock bolt and a nozzle of a grout delivery system, the sealing bush including a cylindrical body defined between a first end and a second end; a hole in the first end of the body that is adapted to receive the rock bolt; a pair of spaced apart annular ridges, on an outer cylindrical surface of the body, between which a grout distributing channel is defined; and an aperture which connects the channel to the recess; wherein each annular ridge is adapted to seal against the nozzle in a position which communicates a grout inlet port of the nozzle with the grout distributing channel.



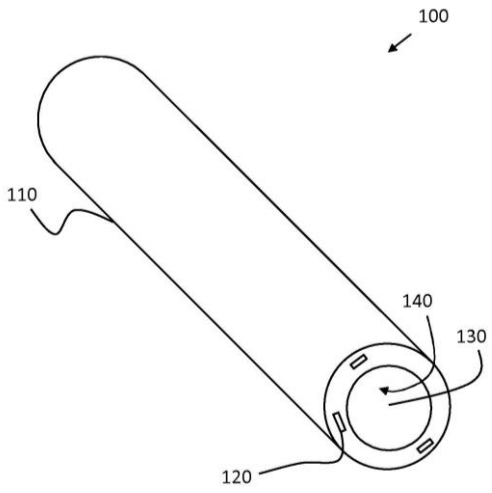
21: 2020/07406. 22: 2020/11/27. 43: 2024/05/24
51: C12N
71: ESTEVE PHARMACEUTICALS, S.A., UNIVERSITAT AUTÓNOMA DE BARCELONA
72: BOSCH TUBERT, María Fátima, SANCHEZ CLARES, Víctor, RIBERA SANCHEZ, Albert, c/ Ali Bei 29, 4º, 2ª
33: EP 31: 18382373.1 32: 2018-05-30
54: ADENOASSOCIATED VIRUS VECTORS FOR THE TREATMENT OF MUCOPOLYSACCHARIDOSES TYPE IV A
00: -
The present invention provides new polynucleotide sequences, adeno-associated virus-derived vectors and pharmaceutical compositions containing the same for the treatment of lysosomal storage disorders and specially, for the treatment of mucopolysaccharidosis type IVA or Morquio A syndrome.

21: 2020/07414. 22: 2020/11/27. 43: 2024/05/22
51: A23G
71: Société des Produits Nestlé S.A.
72: AEBI, Marcel, OPET, Nathan, CHANDRASEKARAN, Shantha Nalur
33: US 31: 62/669114 32: 2018-05-09
54: COMPOSITION FOR COATING FROZEN CONFECTIONERY AND A PROCESS FOR MANUFACTURING SAME
00: -
The invention relates to a composition for coating a frozen confection, the composition comprising, expressed in weight % (based on the total weight of the coating), 50 to 60 wt% of non-fat solids, 40 to 50 wt% of fat, which comprises a fat blend of hardening fat and liquid oil, wherein the fat blend consisting of 45 to 55wt % of liquid fat and 55 to 45 wt % of hardening fat, and wherein the hardening fat comprises at least 8 % anhydrous milk fat, preferably 8 to 22% milk fat, and wherein the composition is free from water. The invention also relates to a method for making the coating composition.

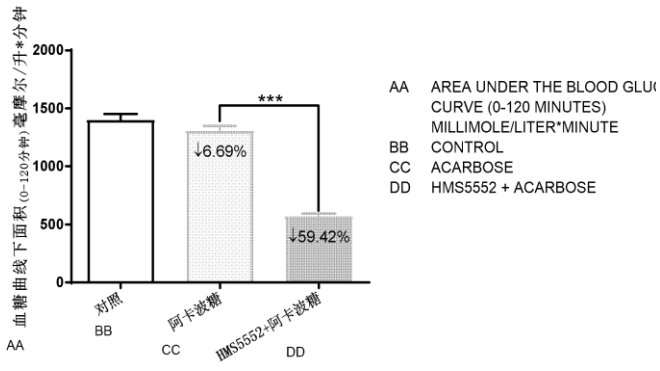
21: 2020/07421. 22: 2020/11/27. 43: 2024/05/23
51: A61B; A61F
71: Paragon 28, Inc.
72: BARMES, Frank D., LEE, Daniel J., LATT, Leonard Daniel
33: US 31: 62/664,663 32: 2018-04-30
54: LASER-BASED IMPLANT ALIGNMENT AND RESECTION GUIDE SYSTEMS AND RELATED METHODS
00: -
Laser-based implant guide systems and methods that align an implant with an axis of an anatomical structure of interest are disclosed. The systems include a target base configured to couple to a patient in alignment with the axis, and a target member configured to couple to the target base that includes a visual indication of the location of the axis. The systems further include an implant guide that includes a laser device and a resection guide. The implant guide is configured to adjust at least one of the position and the orientation of the laser device with respect to the anatomical structure of interest such that a laser line projecting from the laser device is aligned with the visual indication of the target member, and the resection guide facilities implantation of the implant in a resected portion of the anatomical structure of interest in alignment with the axis.



21: 2020/07452. 22: 2020/11/30. 43: 2024/05/17
51: A24F; H05B
71: Nicoventures Trading Limited
72: AOUN, Walid Abi
33: GB 31: 1809786.5 32: 2018-06-14
54: INDUCTION HEATING SYSTEM AND HEATER
00: -
An inductive heater for an aerosol generating device is provided. The inductive heater comprises a heater element for heating aerosol generating material. The heater element comprises a ceramic member and susceptor material integrally formed with the ceramic member. The susceptor material is arranged in use to be heated by electromagnetic induction.



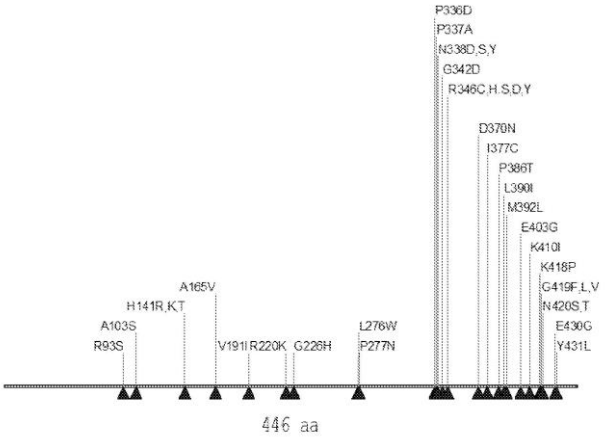
21: 2020/07687. 22: 2020/12/09. 43: 2024/05/23
51: A61K; A61P
71: HUA MEDICINE (SHANGHAI) LTD.
72: CHEN, Li, LI, Yongguo, WANG, Gaosen, GAO, Huisheng
33: CN 31: 201810556685.6 32: 2018-05-31
54: PHARMACEUTICAL COMBINATION, COMPOSITION AND FORMULATION CONTAINING GLUCOKINASE ACTIVATOR AND α -GLUCOSIDASE INHIBITOR, PREPARATION METHODS AND USES THEREOF
00: -
A pharmaceutical combination comprises a glucokinase activator or a pharmaceutically acceptable salt thereof, an isotope labeled form thereof, a crystalline form thereof, a hydrate, a solvate, a diastereomeric or enantiomeric form thereof and an α-glucosidase inhibitor. A pharmaceutical composition, a fixed dose combination formulation, a preparation method for and the use of the pharmaceutical composition and the fixed dose combination formulation.



21: 2020/07688. 22: 2020/12/09. 43: 2024/05/23
51: A61K; A61P
71: HUA MEDICINE (SHANGHAI) LTD.
72: CHEN, Li, LI, Yongguo, WANG, Gaosen, GAO, Huisheng
33: CN 31: 201810556685.6 32: 2018-05-31
54: PHARMACEUTICAL COMBINATION, COMPOSITION, AND COMBINATION FORMULATION CONTAINING GLUCOKINASE ACTIVATOR AND PPAR RECEPTOR ACTIVATOR, AND PREPARATION METHODS, AND USES THEREOF
00: -
The present invention relates to a pharmaceutical combination. The pharmaceutical combination comprises a glucokinase activator or a pharmaceutically acceptable salt of same, an isotope labeled compound of same, a crystal form, hydrate, solvate, diastereomer or enantiomer form of same, and a PPAR receptor activator. The present invention further relates to a pharmaceutical composition, a fixed dose combination formulation, and a preparation method for and uses of the pharmaceutical composition and fixed dose combination formulation.

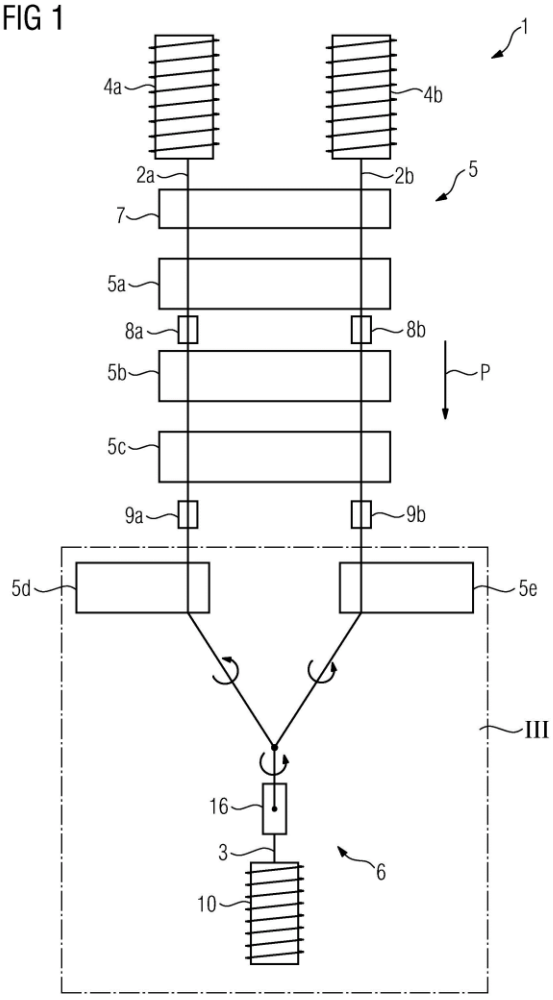
21: 2020/07810. 22: 2020/12/15. 43: 2024/07/03
51: C12N
71: QINGDAO KINGAGROOT CHEMICAL COMPOUND CO., LTD.
72: LIAN, Lei, MO, Sudong, LI, Huarong, YUAN, Guangdi, LI, Zhenguo, ZHANG, Junjie, DING, Dehui, CHEN, Bo, LIU, Guizhi, SONG, Chao, WANG, Lei
33: CN 31: 201810565916.X 32: 2018-06-04
33: CN 31: 201910077823.7 32: 2019-01-28
54: MUTANT P-HYDROXYPHENYLPYRUVATE DIOXYGENASE, AND CODING NUCLEIC ACID AND USE THEREOF
00: -
Disclosed are a mutant p-hydroxyphenylpyruvate dioxygenase (HPPD) protein, a biologically active fragment thereof and an isolated polynucleotide comprising a nucleic acid sequence encoding the protein or fragment, wherein the mutant p-hydroxyphenylpyruvate dioxygenase (HPPD) protein or the biologically active fragment thereof retains or enhances its property of catalyzing the conversion of p-hydroxyphenylpyruvic acid (HPP) into homogentisic acid, and is less sensitive to HPPD inhibitors than wild-type HPPD. Also disclosed are a nucleic acid construct, expression vector and host cell comprising the polynucleotide, as well as a

method for producing a plant that has the property of catalyzing the conversion of p-hydroxyphenylpyruvic acid (HPP) into homogentisic acid, and at the same time, has a reduced sensitivity to HPPD inhibitory herbicides.



21: 2020/07869. 22: 2020/12/17. 43: 2024/05/22
51: D01H; D02G
71: Südwolle Group GmbH
72: KAMINSZKY, Robert Daniel, MAGALHAES DE SA ALCINO, Miguel, THOUVAY, Stéphane
33: DE 31: 10 2017 124 659.2 32: 2017-10-23
54: METHOD AND APPARATUS FOR PRODUCING A YARN
00: -
A method of producing at least one yarn (3) formed by spinning at least two individual fibers (2a – 2c), comprising the following steps:- providing at least two individual fibers (2a – 2c), to be spun to form the at least one yarn (3) to be produced,- feeding the at least two provided fibers (2a – 2c) to a spinning device (6) comprising at least one spindle element or bobbin element (10) via a guide device (5) comprising a plurality of, in particular cylinder-like or cylindrical, guide elements (5a-5e),-spinning the fed fibers (2a, 2b) in the spinning device (6), forming the at least one yarn (3) to be produced, wherein the at least two fibers (2a, 2b) are fed to the spinning device (6) via at least two separate, in particular cylinder-like or cylindrical, guide elements (5d, 5e) that are arranged such that they are spatially separated from one another in at least one spatial direction.

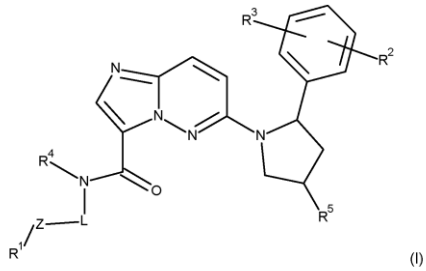
FIG 1



21: 2021/00107. 22: 2021/01/07. 43: 2024/07/08
51: A61K; C07K; A61P
71: REGENERON PHARMACEUTICALS, INC.
72: KIRSHNER, Jessica, R., DELFINO, Frank, DILILLO, David, SINESHCHEKOVA, Olga, BRAY, Kevin, MEAGHER, Thomas, Craig
33: US 31: 62/700,615 32: 2018-07-19
54: CHIMERIC ANTIGEN RECEPTORS WITH BCMA SPECIFICITY AND USES THEREOF
00: -
B-cell maturation antigen (BCMA) is expressed on malignant plasma cells. The present invention provides BCMA-specific chimeric antigen receptors and cells expressing such chimeric antigen receptors. In certain embodiments, engineered cells expressing the chimeric antigen receptors of the present invention are capable of inhibiting the growth of tumors expressing BCMA. The engineered cells of

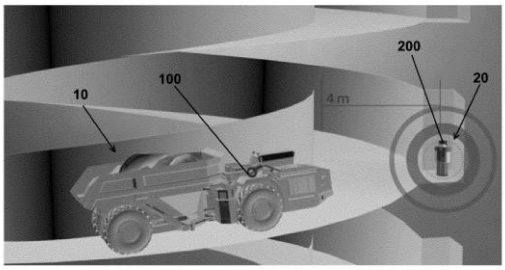
the invention are useful for the treatment of diseases and disorders in which an upregulated or induced BCMA-targeted immune response is desired and/or therapeutically beneficial. For example, engineered cells expressing the BCMA-specific chimeric antigen receptors of the invention are useful for the treatment of various cancers, including multiple myeloma.

21: 2021/00159. 22: 2021/01/11. 43: 2024/06/25
51: A61K; C07D; A61P
71: BENEVOLENTAI BIO LIMITED
72: BROWN, Alan, GLEN, Angela
33: GB 31: 1813791.9 32: 2018-08-23
54: IMIDAZO[1,2-B]PYRIDAZINES AS TRK INHIBITORS
00: -
The present invention relates to certain imidazo[1,2-b]pyridazine compounds and the pharmaceutically acceptable salts of such compounds. The invention also relates to the processes for the preparation of the compounds, compositions containing the compounds, and the uses of such compounds and salts in treating diseases or conditions associated with tropomyosin-related kinase (Trk), activity. More specifically the invention relates to the compounds and their salts useful as inhibitors of Trk. Formula (I) wherein R^1, R^2, R^3, R^4 and R^5, L and Z are as defined herein.

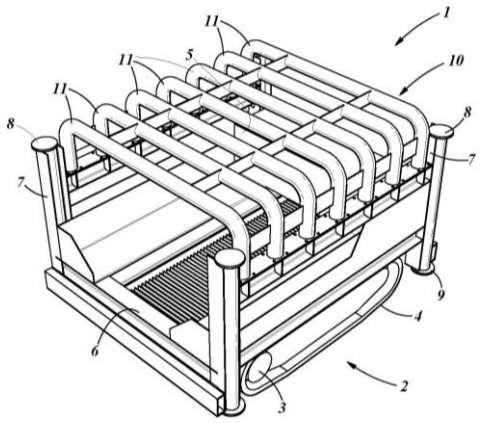


(I)

21: 2021/00178. 22: 2021/01/11. 43: 2024/05/02
51: G08B; G08G; H04W
71: Newtrax Holdings Inc.
72: CERVINKA, Alexandre, BOUCHARD, Martin
33: US 31: 62/702,313 32: 2018-07-23
54: METHOD AND SYSTEM FOR ACKNOWLEDGING PRESENCE IN A CONTEXT-AWARE ENVIRONMENT
00: -
A method for acknowledging presence in a context-aware environment comprises the steps of detecting, with at least one context awareness mechanism, if a context-aware device is within a predetermined range or distance. The method further comprises the vehicle device or personal device being within a range of the moving vehicle sending a request of acknowledgment to the vehicle device or personal device. In events where the moving vehicle device does not receive an acknowledgment from another vehicle or a worker within a predetermined duration, the moving vehicle is automatically stopped. In events where the moving vehicle device receives an acknowledgment from all the devices within the predetermined range, the device of the moving vehicle considers the context as non-hazardous and the vehicle may continue along its path.

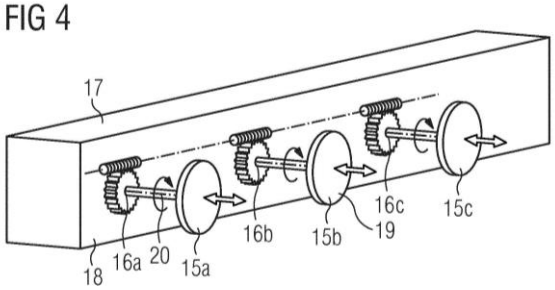


21: 2021/00463. 22: 2021/01/20. 43: 2024/07/19
51: E21D
71: ANDREAS NICOLAAS DE KOKER
72: NICOLAAS JACOBUS PIENAAR
33: ZA 31: 2018/04887 32: 2018-07-25
54: SAFETY APPARATUS AND METHOD
00: -
This invention relates to a safety cage apparatus (1) and method and more particularly, to a safety cage apparatus (1) and method that facilitates installation of roof bolts (16) using handheld drills and other underground work. The safety cage apparatus (1) has a protective cage (10) for protecting a person (12) therein and an opening (19) in a top and sides thereof for allowing equipment to be extended therethrough to work a hanging wall (20) and side wall of a mine.



21: 2021/00478. 22: 2021/01/22. 43: 2024/05/23
51: B21B
71: Primetals Technologies Austria GmbH
72: MOSER, Friedrich
33: EP(AT) 31: 18185390.4 32: 2018-07-25
54: METHOD AND DEVICE FOR ASCERTAINING THE LATERAL STRIP CONTOUR OR THE POSITION OF THE STRIP EDGES OF A RUNNING METAL STRIP
00: -
The invention relates to a device for ascertaining the lateral strip contour and/or the position of the strip edges of a metal strip, comprising at least one sensing element for ascertaining suitable measurement data. The sensing element is integrated into a lateral guide (17) together with a main part module of the metal strip conveying device. The lateral guide (17) comprises at least one wear element (15a, 15b, 15c) which is arranged in the lateral guide and which comprises a wear element adjusting device that can be rotated about a rotational axis (20) substantially perpendicular to a guide plane of the lateral guide (17). The wear element (15a, 15b, 15c) together with the wear element adjusting device is designed as a sensing element. In an operating method, at least one sensing element (15a, 15b, 15c) is brought into contact with a lateral edge at a starting time, and suitable measurement data is ascertained using the sensing element while the metal strip runs past the sensing element. The strip course can be corrected on the basis of the ascertained measurement data using corrective measures on one or more roll stands and/or on one or more lateral guides (17) of the rolling mill.

FIG 4



21: 2021/00583. 22: 2021/01/27. 43: 2024/06/20
51: F24D; F24H; F28D; F28F
71: SUNAMP LIMITED
72: BISSELL, Andrew, GATAORA, Santokh, NICHOLSON, Jonathan, DOAK, Kieran
33: GB 31: 1812303.4 32: 2018-07-27
54: INTERNALLY HEATED PHASE CHANGE MATERIAL HEAT BATTERIES
00: -
There is herein defined phase change material (PCM) battery designs which are heated. More particularly, there is described integrally and/or internally located heating devices (e.g. electrical heating devices) in a range of heat batteries containing PCM. In particular, there is described a PCM heat battery comprising: a PCM enclosure capable of holding PCM; PCM located in the enclosure; an electronic control system for the PCM heat battery; a heating device located in the PCM heat battery; wherein the heating device is capable of heating and/or charging the PCM.

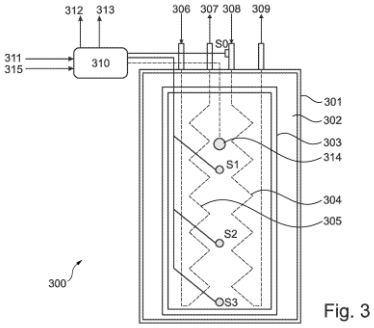
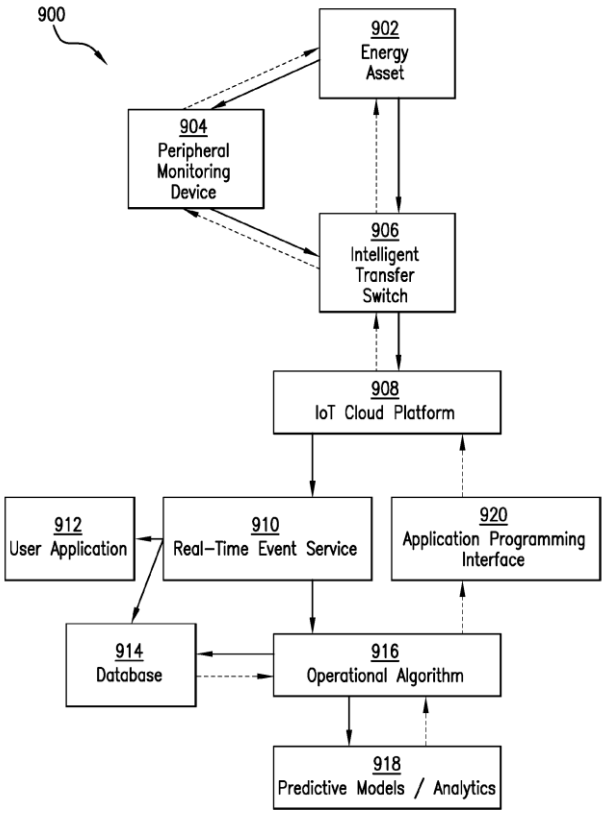


Fig. 3

21: 2021/00854. 22: 2021/02/08. 43: 2024/05/23
51: A61K; A61Q
71: Colgate-Palmolive Company
72: FAN, Aixing, BOYD, Thomas, LE, Lan
54: PERSONAL CARE COMPOSITIONS
00: -
Described herein are personal care compositions comprising a solid vinylpyrrolidone/vinyl acetate

copolymer; a vinylpyrrolidone/vinyl acetate copolymer; and a cosmetically acceptable carrier. Methods of making and using the same are also described.

21: 2021/00974. 22: 2021/02/12. 43: 2024/06/10
51: B60L; H02J
71: SHYFT POWER SOLUTIONS, INC.
72: STITES-CLAYTON, Cole, DAVIS, Tyler, ENEYO, Ugwem
33: US 31: 62/698,197 32: 2018-07-15
54: APPARATUSES, METHODS AND SYSTEMS FOR INTELLIGENT AND FLEXIBLE TRANSFER SWITCHES
00: -
The present inventive concepts comprise a connected, intelligent transfer switch system that permits remote metering, monitoring and control of energy sources connected to a device both by hardwired and wireless connection, and the method for operating this system is disclosed. The inventive concepts represent a significant improvement upon existing transfer switch systems by incorporating advanced monitoring and control capabilities of all energy resources connected to a building, such as fossil-fuel powered generators, battery storage systems, solar photovoltaic arrays, wind turbines, utility grid connections, controllable loads, or other technologies which generate, store or consume energy. The inventive concepts further provide means for flexible and intelligent operation of these resources through a dedicated network communication connection which enables advanced operational decision-making to determine optimal switching actions and real-time interaction through user-facing digital interfaces.



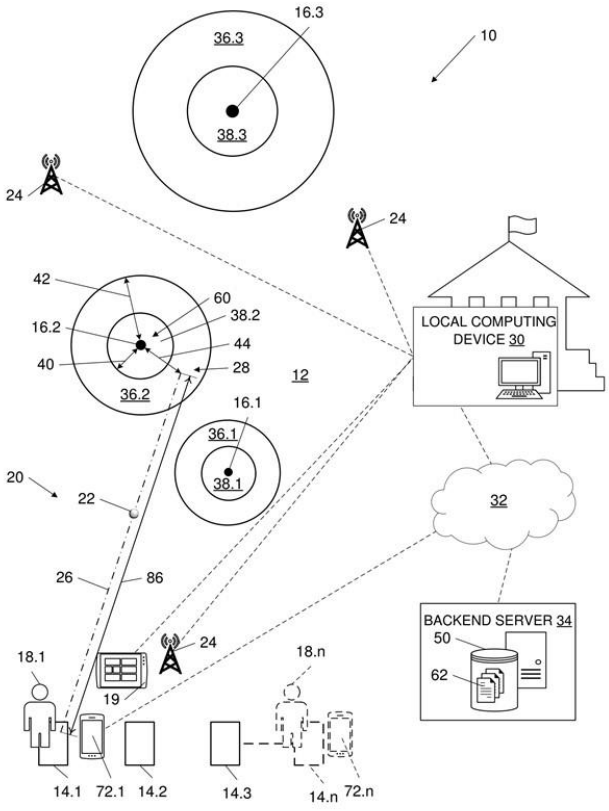
21: 2021/01002. 22: 2021/02/15. 43: 2024/07/08
51: C12N; G01N
71: GENZYME CORPORATION
72: O'RIORDAN, Catherine, R., JIN, Xiaoying, LIU, Lin, ZHANG, Kate
33: US 31: 62/375,314 32: 2016-08-15
54: METHODS FOR DETECTING AAV
00: -
Provided herein are methods for determining the serotype of a virus particle and/or or determining the heterogeneity of a virus particle (e.g., an AAV particle). In other embodiments, the invention provides methods to determine the heterogeneity of AAV particles. In some aspects, the invention provides viral particles (e.g., rAAV particles) with improved stability and/or improved transduction efficiency by increasing the acetylation and/or deamidation of capsid proteins.

21: 2021/01172. 22: 2021/02/22. 43: 2024/06/11
51: A63B
71: ALPHAWAVE GOLF (PTY) LTD
72: MARAIS, Sarel Jacobus, LONGLEY, Nicholas Ian, MATTHYSEN, Nardus
33: US 31: 62/702,951 32: 2018-07-25

54: A SKILL LEVEL DETERMINATION AND MANAGEMENT SYSTEM AND METHOD

00: -

There is provided a skill level determination and management system and method. The system includes a sensor for automatically sensing shot data of a golf shot hit by a golfer on a range area towards a target on the range area. A comparing component is provided for comparing an end location of the golf shot to a target location and grading the shot, taking into consideration at least a difference between the end location of the golf shot and the target location, and a skill level associated with the golfer. A skill level management component is provided for updating the skill level associated with the golfer based on the grade.



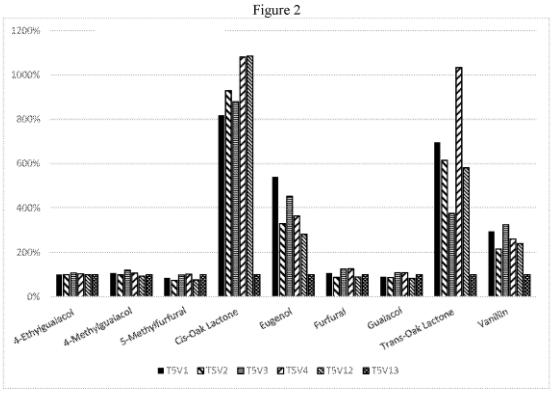
21: 2021/01695. 22: 2021/03/12. 43: 2024/06/25
51: C12G; C12H
71: INTELLECTUAL PROPERTY PTY LTD
72: LANGE, Darren
33: AU 31: 2018903242 32: 2018-09-03

54: METHOD FOR CONDITIONING WOOD BARRELS

00: -

Disclosed herein is a process for the conditioning of wood barrels, in particular, a process for the rapid conditioning of wood barrels. The disclosed process may comprise one or more steps comprising: subjecting a wood barrel to heat to increase the temperature of the wood; contacting the heated internal surface of the wood barrel with a fluid additive; and then optionally: subjecting the interior of the wood barrel to a pressurised environment; and/or subjecting the wood barrel to further heating; repeating one or more steps; and allowing the wood barrel to cool, or cooling the wood barrel, to provide a conditioned wood barrel. Also disclosed is another process comprising the step of providing a bladder and a liquid additive within the interior of a wood barrel for a predetermined time to facilitate absorbing the additive into the wood, wherein the bladder reduces the interior volume of the wood barrel such that the liquid additive is in contact with the internal surface of the barrel. Also disclosed herein are conditioned wood barrels and uses thereof.

Figure 2



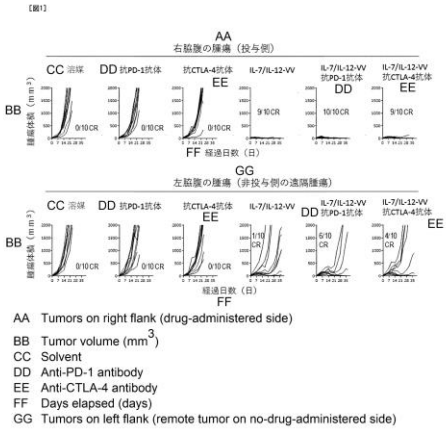
21: 2021/02020. 22: 2021/03/25. 43: 2024/05/03
51: A61K; A61P
71: Astellas Pharma Inc.
72: NAKAO , Shinsuke, KAWASE , Tatsuya
33: JP 31: 2018-179632 32: 2018-09-26

54: CANCER THERAPY BY COMBINATION USE OF ONCOLYTIC VACCINIA VIRUS AND IMMUNE CHECKPOINT INHIBITOR, AND PHARMACEUTICAL COMPOSITION AND COMBINATION MEDICINE FOR USE IN THE CANCER THERAPY

00: -

The present invention provides a combination therapy of genetically modified vaccinia virus

(particularly oncolytic vaccinia virus) and another cancer therapy for use in treating cancer, and a pharmaceutical composition and a combination kit for use in the therapy. More specifically, the invention provides a therapy with vaccinia virus containing a polynucleotide encoding interleukin-7 (IL-7) and a polynucleotide encoding interleukin-12 (IL-12) in combination with an immune checkpoint inhibitor, and a pharmaceutical composition and a combination kit for use in the therapy.



21: 2021/02096. 22: 2021/03/29. 43: 2024/05/23
51: H04W
71: ZTE CORPORATION
72: GUO, Hua, HE, Minjie, DING, Fuhao
33: CN 31: 201910320128.9 32: 2019-04-19

54: NETWORK ROAMING AND INTERCOMMUNICATION METHOD, DEVICE, AND SYSTEM

00: -

Embodiments of the present disclosure disclose a network roaming and intercommunication method, device, and system. The method comprises: a first network element receives a registration request of a user of an NG network under a second deployment method, wherein the first network element is a network element in an NG network under a first deployment method, the first network element being responsible for the security management, mobility management, and connection management of the user, and N is an integer greater than or equal to 2; the first network element communicates with a roaming and intercommunication device to acquire a first security authentication information and a first subscription data, wherein the first security authentication information is the user's security authentication information in the NG network under the first deployment method, said user being in the NG network under the second deployment method, and the first subscription data is the user's subscription data in the NG network under the first deployment method, said user being in the NG network under the second deployment method.

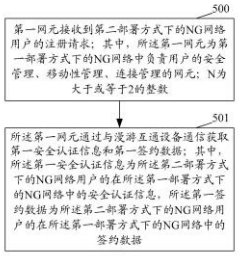


图 5

500 FIRST NETWORK ELEMENT RECEIVES REGISTRATION REQUEST OF USER OF NG NETWORK UNDER SECOND DEPLOYMENT METHOD, WHEREIN FIRST NETWORK ELEMENT IS NETWORK ELEMENT IN NG NETWORK UNDER FIRST DEPLOYMENT METHOD, FIRST NETWORK ELEMENT BEING RESPONSIBLE FOR SECURITY MANAGEMENT, MOBILITY MANAGEMENT, AND CONNECTION MANAGEMENT OF USER, AND N IS INTEGER GREATER THAN OR EQUAL TO 2

501 FIRST NETWORK ELEMENT COMMUNICATES WITH ROAMING AND INTERCOMMUNICATION DEVICE TO ACQUIRE FIRST SECURITY AUTHENTICATION INFORMATION AND FIRST SUBSCRIPTION DATA, WHEREIN FIRST SECURITY AUTHENTICATION INFORMATION IS USER'S SECURITY AUTHENTICATION INFORMATION IN NG NETWORK UNDER FIRST DEPLOYMENT METHOD, SAID USER BEING IN NG NETWORK UNDER SECOND DEPLOYMENT METHOD, AND FIRST SUBSCRIPTION DATA IS USER'S SUBSCRIPTION DATA IN NG NETWORK UNDER FIRST DEPLOYMENT METHOD, SAID USER BEING IN NG NETWORK UNDER SECOND DEPLOYMENT METHOD

21: 2021/02101. 22: 2021/03/29. 43: 2024/07/01
51: B60P; B60R; F16B
71: TRELLEBORG IZARRA SA
72: ALBERDI BALZOLA, Alberto, SAMUELSON, Carl
33: SE 31: 1851258-2 32: 2018-10-15

54: METHOD AND SYSTEM FOR MOUNTING LINING ELEMENTS AND THE LIKE

00: -

A method for attaching lining elements to a structure exposed to wear using an interface engagement fastening arrangement is disclosed. The method involves the steps of attaching strips or sheets provided with a first part (50a) of the interface engagement fastening arrangement to a mounting surface (72) of the structure (70); providing lining elements (10') having a second (50b) part of the interface engagement fastening arrangement; and attaching the second part (50b) of the lining elements (10') to the exposed first part (50a) of the interface engagement fastening arrangement so that these parts (50a, 50b) are inter-engaged. By this engagement of the first (50a) and second (50b) parts of the interface engagement fastening arrangement, the aimed-at lining element mounting is obtained.

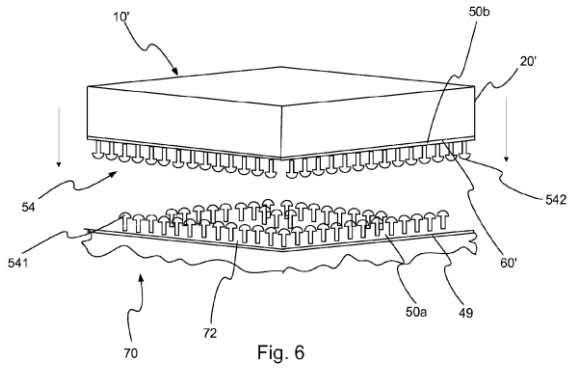


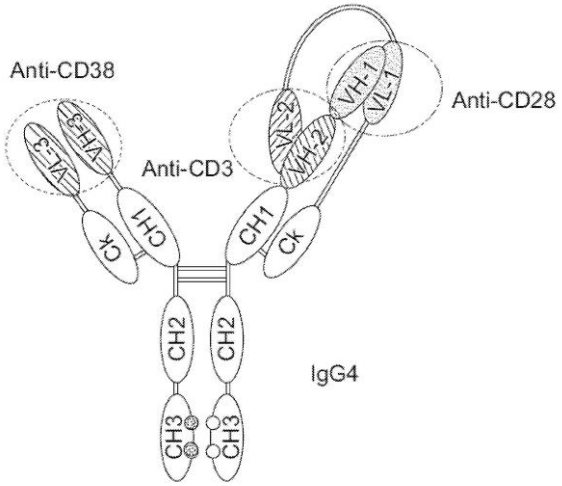
Fig. 6

21: 2021/02223. 22: 2021/04/01. 43: 2024/07/08
51: C07K; C12N
71: SANOFI
72: YANG, Zhi-Yong, XU, Ling, WEI, Ronnie, WU, Lan, SEUNG, Edward, PRADES, Catherine, NABEL, Gary, DABDOUBI, Tarik, CAMERON, Béatrice, LEMOINE, Cendrine
33: US 31: PCT/US2018/055084 32: 2018-10-09
33: US 31: 62/831,572 32: 2019-04-09
33: US 31: 62/831,608 32: 2019-04-09
33: EP 31: 19306097.7 32: 2019-09-11

54: TRISPECIFIC ANTI-CD38, ANTI-CD28, AND ANTI-CD3 BINDING PROTEINS AND METHODS OF USE FOR TREATING VIRAL INFECTION

00: -

The disclosure provides methods of treating viral infection using trispecific binding proteins comprising four polypeptide chains that form three antigen binding sites that specifically bind a CD38 polypeptide (e.g, human and/or cynomolgus monkey CD38 polypeptides), a CD28 polypeptide, and a CD 3 polypeptide.



21: 2021/02298. 22: 2021/04/07. 43: 2024/06/21
51: H04L; G06Q
71: BLUEVISION IT MANAGEMENT LTD.
72: VAN WYK, FRANS-PIETER, COETZER, CHRISTO

54: A SYSTEM FOR, AND A METHOD OF CREATING CYBERSECURITY SITUATIONAL AWARENESS, THREAT DETECTION AND RISK DETECTION WITHIN THE INTERNET-OF-THINGS SPACE

00: -

According to a first aspect of the invention, there is provided a system for facilitating the creation of cybersecurity situational awareness, threat detection and risk detection within the Internet-of-Things space, said system including one or more of the following: one or more sensor/s operable to ingest and/or passively collect data, and feed accepted data to a cloud-based platform; a central repository, operable to run on one or more distributed node/s in a cloud environment and/or one or more virtual machines, wherein said central repository is operable to store and/or retrieve and/or mine data from said one or more sensor/s, in use; and an alarm mechanism, operable to alert a user to a breach of or more predetermined cybersecurity rules, wherein said rules are either created manually or inferred from the central repository by way of pattern recognition algorithms, to enable one or more anomalies to be appropriately flagged, in use.

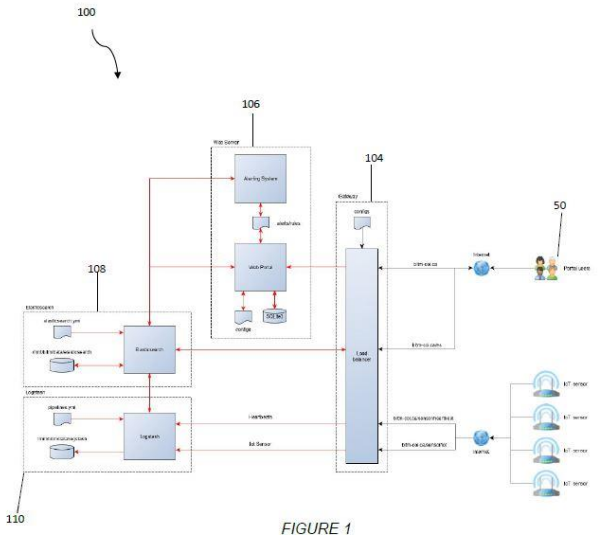
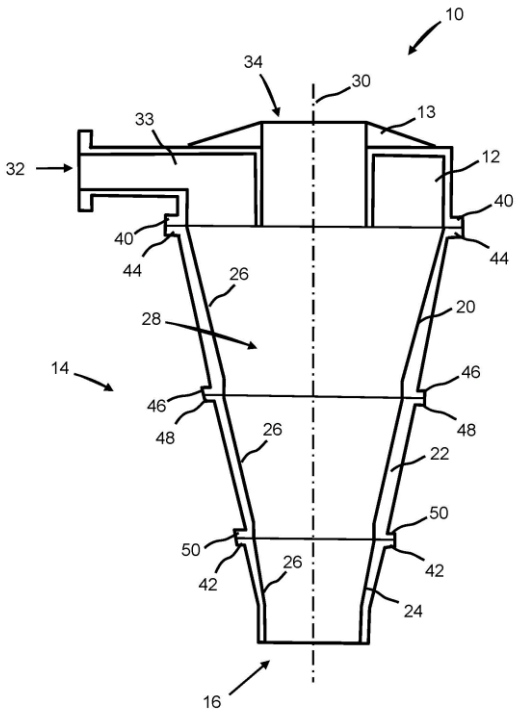


FIGURE 1

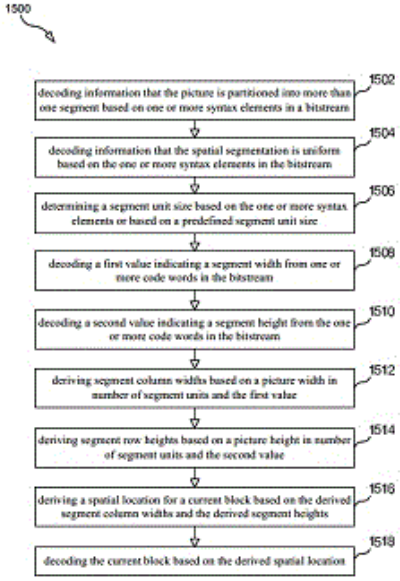
21: 2021/02343. 22: 2021/04/09. 43: 2024/06/21
51: G01N
71: REGENERON PHARMACEUTICALS, INC.
72: WANG, Shunhai
33: US 31: 62/750,583 32: 2018-10-25
54: METHODS FOR ANALYSIS OF VIRAL CAPSID PROTEIN COMPOSITION
00: -
Methods of determining the stoichiometry of a viral capsid and/or determining the heterogeneity of protein components in a viral capsid are disclosed.

21: 2021/02987. 22: 2021/05/04. 43: 2024/05/23
51: C11D
71: COLORANTS INTERNATIONAL LTD
72: CATANOIU, Gabriela, HECKMANN, Heino, OSWALD, Harald, SOHLING, Ulrich, WAGDARE, Nagesh, Appasaheb, SHIRKE, Jayavant, Ratan, LAMNE, Sanjay
33: EP 31: 18211210.2 32: 2018-12-10
54: AN ENCAPSULATED DYE COMPOSITION AND A METHOD FOR PREPARATION THEREOF
00: -
The present invention relates to an encapsulated dye composition and a method for preparation thereof. The encapsulated dye composition of the present disclosure is found to be non-bleeding encapsulated dye. The encapsulated dye composition comprises a carrier consisting of a mixture of silica and clay, and a dye encapsulated in the carrier. The encapsulated dye optionally comprises a binder.

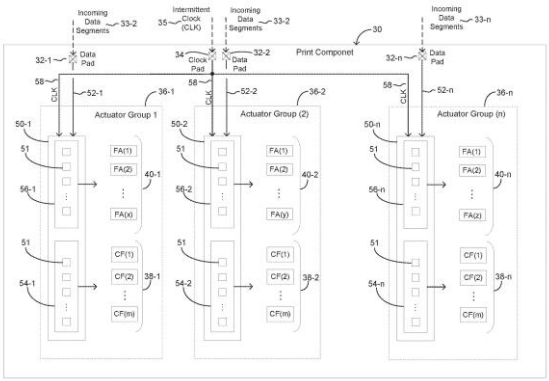
21: 2021/03943. 22: 2021/06/08. 43: 2024/05/23
51: B04C
71: Vulco S.A.
72: SCHMIDT, Mark, CEPEDA, Eduardo, LAGOS, Jorge
33: GB 31: 1821140.9 32: 2018-12-21
54: HYDROCYCLONE
00: -
A part-conical section (20,22) for use as part of a separation chamber (14) of a hydrocyclone (10) is described. The part-conical section comprises: an upper end defining internal and external diameters and including an upper mount (44,48); a lower end defining smaller internal and external diameters than the upper end, and including a lower mount (46,50); and a sidewall (26) defining an internal passageway (28) along a fluid transport axis (30) and an external surface. The internal passageway extends from the upper end to the lower end and defines a radially-inward tapering portion with respect to the fluid transport axis, and a non-inwardly-tapering portion with respect to the fluid transport axis. The tapering portion extends from the upper end to the non-inwardly-tapering portion, and the non- inwardly-tapering portion extends from a narrow end of the tapering portion to the lower end. A spigot (24) and a hydrocyclone (10) are also described.



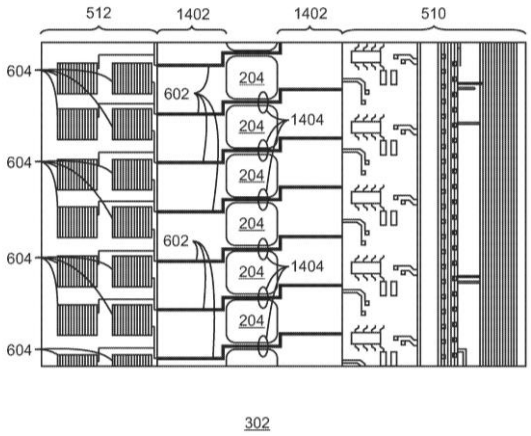
21: 2021/04016. 22: 2021/06/10. 43: 2024/06/25
51: H04N
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: MITRA DAMGHANIAN, MARTIN PETTERSSON, RICKARD SJÖBERG
33: US 31: 62/793,353 32: 2019-01-16
54: VIDEO CODING COMPRISING UNIFORM TILE SPLIT WITH REMAINDER
00: -
Method for decoding a picture, comprising: decoding information that the picture is partitioned into more than one segment based on one or more syntax elements in a bitstream; decoding information that the spatial segmentation is uniform based on the one or more syntax elements; determining a segment unit size based on the one or more syntax elements or based on a predefined segment unit size; decoding a first value indicating a segment width from one or more code words in the bitstream; decoding a second value indicating a segment height from the one or more code words; deriving segment column widths based on a picture width in number of segment units and the first value; deriving segment row heights based on a picture height in number of segment units and the second value; deriving a spatial location for a current block based on the derived segment column widths and the derived segment heights; and decoding the current block based on the derived spatial location.



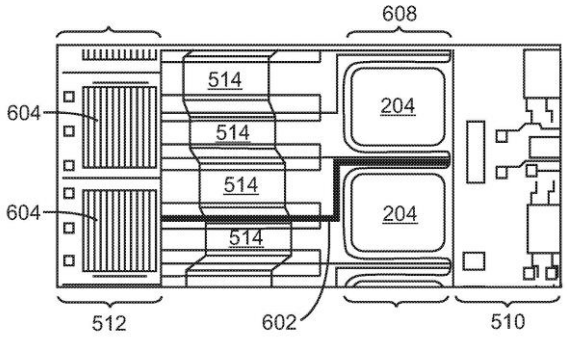
21: 2021/04424. 22: 2021/06/25. 43: 2024/05/02
51: B41J
71: Hewlett-Packard Development Company, L.P.
72: GARDNER, James Michael, LINN, Scott A., CUMBIE, Michael W.
54: PRINT COMPONENT WITH MEMORY ARRAY USING INTERMITTENT CLOCK SIGNAL
00: -
A print component includes a plurality of data pads, a clock pad to receive an intermittent clock signal, and a plurality of actuator groups each corresponding to a different liquid type and to a different one of the data pads. Each actuator group includes a plurality of configuration functions, an array of fluid actuators, and an array of memory elements including a first portion corresponding to the plurality of configuration functions and a second portion corresponding to the array of fluid actuators. Each time the intermittent clock signal is present on the clock pad, the array of memory elements to serially load a segment of data bits from the corresponding data pad, including loading a first portion of data bits into the first portion of memory elements, and loading a second portion of data bits into the second portion of memory elements.



21: 2021/04426. 22: 2021/06/25. 43: 2024/05/02
51: B41J
71: Hewlett-Packard Development Company, L.P.
72: GARDNER, James Michael, FULLER, Anthony M., CUMBIE, Michael W., LINN, Scott A.
54: DIE FOR A PRINTHEAD
00: -
A die for a printhead is described herein. The die includes a number of fluid feed holes disposed in a line parallel to a longitudinal axis of the die, wherein the fluid feed holes are formed through a substrate of the die. A number of fluidic actuators are proximate to the fluid feed holes to eject fluid received from the plurality of fluid feed holes. The die includes logic circuitry to operate the fluidic actuators, wherein the logic circuitry is disposed on a first side of the plurality of fluid feed holes. Power circuitry to power the plurality of fluidic actuators is disposed on an opposite side of the fluid feed holes from the logic circuitry. Activation traces are disposed between each of the fluid feed holes to couple the logic circuitry to the power circuitry.



21: 2021/04427. 22: 2021/06/25. 43: 2024/05/02
51: B41J
71: Hewlett-Packard Development Company, L.P.
72: CUMBIE, Michael W., LINN, Scott A., FULLER, Anthony M., GARDNER, James Michael
54: DIE FOR A PRINTHEAD
00: -
A die for a printhead is described herein. The die includes a number of fluid feed holes disposed in a line parallel to a longitudinal axis of the die, wherein the fluid feed holes are formed through a substrate of the die. The die includes a number of fluidic actuators, proximate to the fluid feed holes, to eject fluid received from the fluid feed holes. Circuitry on the die operates the fluidic actuators, wherein traces are provided in layers between adjacent fluid feed holes, connecting circuitry on each side of the fluid feed holes.



21: 2021/05055. 22: 2021/07/19. 43: 2024/05/16
51: A61K; A61P; C07K; C12N
71: Gliknik Inc.
72: BLOCK, David S., OLSEN, Henrik
33: US 31: 62/196,478 32: 2015-07-24
54: FUSION PROTEINS OF HUMAN PROTEIN FRAGMENTS TO CREATE ORDERLY MULTIMERIZED IMMUNOGLOBULIN FC COMPOSITIONS WITH ENHANCED COMPLEMENT BINDING
00: -
The current invention involves a series of fully recombinant multimerized forms of immunoglobulin Fc which thereby present polyvalent immunoglobulin Fc to immune cell receptors. The fusion proteins exist as both homodimeric and highly ordered multimeric fractions, termed stradomers. The invention involves stradomers that increase multimerization and bind preferentially to complement and that are useful in the treatment and prevention of disease.

21: 2021/05301. 22: 2021/07/27. 43: 2024/05/23
51: C07H C12N
71: SIRNAOMICS, INC.
72: ZHANG, Peter, LU, Xiaoyong, EVANS, David, M., LU, Patrick, Y., LU, Alan, XU, John
33: US 31: 62/786,213 32: 2018-12-28
54: TARGETED DELIVERY OF THERAPEUTIC MOLECULES
00: -
The invention relates to the targeted delivery of therapeutic molecules to organs, tissues, and cells of humans and other mammals. The invention is directed to a chemical construct for delivering such therapeutic molecules and to methods of making and using the constructs.

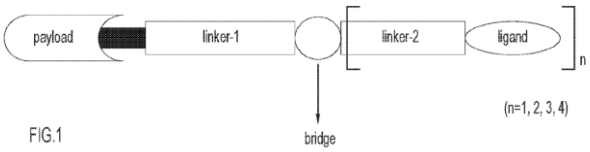


FIG.1

21: 2021/05595. 22: 2021/08/10. 43: 2024/06/11
51: G06F; H04L
71: TMRW FOUNDATION IP SARL
72: YERLI, Cevat
33: US 31: 17/006,327 32: 2020-08-28
54: SYSTEM AND METHOD ENABLING INTERACTIONS IN VIRTUAL ENVIROMENTS
00: -
A system enabling interactions in virtual environments comprises one or more cloud server computers comprising at least one processor and memory storing data and instructions implementing a virtual environment platform comprising at least one virtual environment; at least one camera obtaining live data feed from a user of a client device; and a client device communicatively connected to the one or more cloud server computers and at least one camera. The system generates a user graphical representation from the live data feed that is inserted into a selected virtual environment and is therein updated, enabling real-time multi-user collaboration and interactions in the virtual environment. Suitable system architectures and methods thereof are also herein disclosed.

21: 2021/05895. 22: 2021/08/17. 43: 2024/07/04
51: C12N
71: SHANGHAITECH UNIVERSITY
72: CHEN, Jia, YANG, Bei, YANG, Li, HUANG, Xingxu, WANG, Lijie
33: CN 31: PCT/CN2019/074577 32: 2019-02-02
54: INHIBITION OF UNINTENDED MUTATIONS IN GENE EDITING
00: -
Provided are fusion proteins and related molecules useful for conducting base editing with reduced or no off-target mutations. The fusion protein may include a first fragment comprising a nucleobase deaminase or a catalytic domain thereof, a second fragment comprising a nucleobase deaminase inhibitor, and a protease cleavage site between the first fragment and the second fragment. Also provided are improved prime editing systems, including prime editing guide RNA with improved stability.

21: 2021/07289. 22: 2021/09/28. 43: 2024/05/02
51: B61L; G01C; G07C
71: Wi-Tronix, LLC
72: JORDAN, Lawrence B., SCHABELL, Brandon, WEAVER, Bryan, GANESAN, Pradeep, MARTINEZ, Roger, RATHINAVEL, Jagadeeswaran, MURILLO AMAYA, Sergio E.
33: US 31: 62/825,943 32: 2019-03-29
54: AUTOMATED SIGNAL COMPLIANCE MONITORING AND ALERTING SYSTEM
00: -
A data acquisition and recording system (DARS) for mobile assets that includes a data recorder and an automated signal monitoring and alerting system. The data recorder includes a data encoder, an onboard data manager, a vehicle event detector, at least one local memory component, and a queueing repository. DARS processes data from at least one input sensor and stores a compressed record of the data at least once per second in the local memory module. DARS is designed to run in near real-time mode, storing a full record comprising five minutes of data to a remote memory module every five minutes, and in real-time mode, streaming data to the remote memory module by uploading a record of data at least once per second and up to once every tenth of a second. Remotely located users can view video, audio, and data acquired by DARS through a web browser, which provides for quicker emergency response, validate the effectiveness of repairs and rerouting, and monitor crew performance and safety, and receive signal compliance and signal violations in real-time.

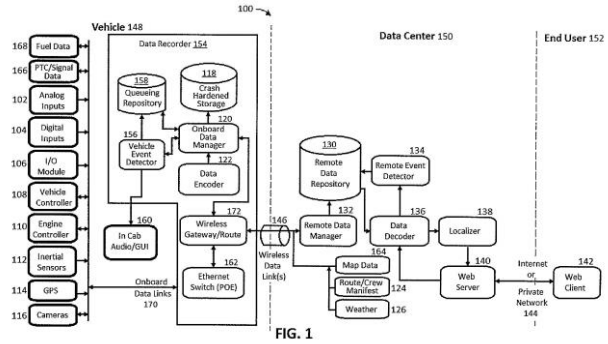
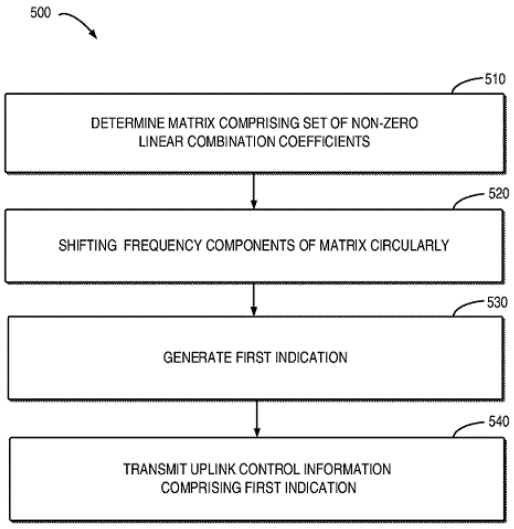


FIG. 1

21: 2021/08305. 22: 2021/10/27. 43: 2024/05/23
51: H04L
71: NOKIA TECHNOLOGIES OY
72: TOSATO, Filippo, MASO, Marco, NHAN, Nhat-Quang, LIU, Hao
54: UPLINK CONTROL INFORMATION
00: -
Embodiments of the present disclosure relate to methods, devices, apparatuses and computer readable storage media for Uplink Control Information (UCI) design. The method comprises determining, at a terminal device, a matrix comprising a set of non-zero linear combination coefficients for quantizing a channel between the terminal device and a network device, the matrix having spatial components and frequency components; shifting the frequency components of the matrix circularly, such that a target coefficient of the set of non-zero linear combination coefficients is located in a frequency component with a predetermined index of the frequency components in a shifted matrix; generating a first indication indicating the spatial component associated with the target coefficient in the matrix; and transmitting, to the network device, uplink control information comprising the first indication. In this way, a new solution for designing the UCI may reduce the overhead for reporting the parameters in the "UCI part 1" and "UCI part 2".



21: 2021/08310. 22: 2021/10/27. 43: 2024/07/08
51: A61K
71: NYMOX CORPORATION
72: AVERBACK, Paul
33: US 31: 16/410,639 32: 2019-05-13
54: METHOD OF ENHANCING THE THERAPEUTIC EFFICACY OF FEXAPOTIDE TRIFLUTATE IN TREATING LUTS
00: -
Disclosed are methods of enhancing the therapeutic efficacy of Fexapotide Triflutate (TF) in treating LUTS, both irritative and obstructive, that include administering a composition comprising FT at least twice over a period spanning more than one year. The methods are capable of providing an enhanced therapeutic effect in treating nocturia, and in improving urinary flow, when compared to the therapeutic effect achieved by administration of the same or twice the total amount of FT administered.

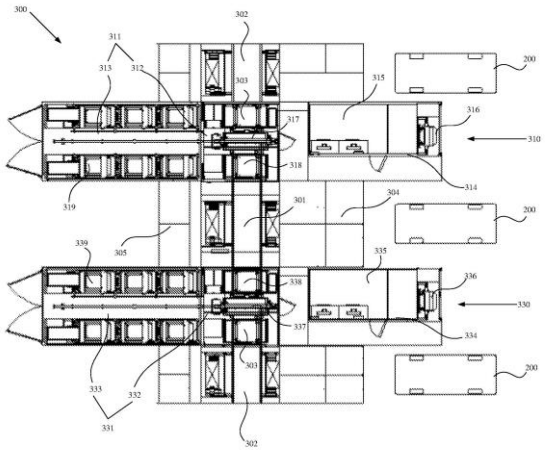
21: 2021/08310. 22: 2021/10/27. 43: 2024/07/08
51: A61K
71: NYMOX CORPORATION
72: AVERBACK, Paul
33: US 31: 16/410,639 32: 2019-05-13
54: METHOD OF ENHANCING THE THERAPEUTIC EFFICACY OF FEXAPOTIDE TRIFLUTATE IN TREATING LUTS
00: -
Disclosed are methods of enhancing the therapeutic efficacy of Fexapotide Triflutate (TF) in treating LUTS, both irritative and obstructive, that include administering a composition comprising FT at least twice over a period spanning more than one year.

The methods are capable of providing an enhanced therapeutic effect in treating nocturia, and in improving urinary flow, when compared to the therapeutic effect achieved by administration of the same or twice the total amount of FT administered.

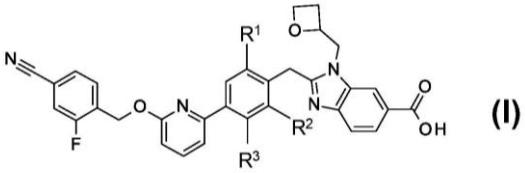
21: 2021/08521. 22: 2021/11/02. 43: 2024/06/25
51: A61K; A61P
71: NYMOX CORPORATION
72: AVERBACK, Paul
33: US 31: 16/410,685 32: 2019-05-13
54: METHOD OF IMPROVING LOWER URINARY TRACT SYMPTOMS
00: -
The embodiments include methods of improving the symptoms of mammals having LUTS, using compositions containing Fexapotide Triflutate and a pharmaceutically acceptable carrier. The method includes, but is not limited to, administering Fexapotide Triflutate intramuscularly, orally, intravenously, intrathecally, intratumorally, intranasally, topically, transdermally, etc., either alone or with a carrier to a mammal in need thereof.

21: 2021/09116. 22: 2021/11/16. 43: 2024/04/17
51: A61K; C07K; A61P
71: UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG
72: WEISS, Stefan Franz Thomas, CUTTLER, Katelyn, OTGAAR, Tyrone Chad, VAN DER MERWE, Eloise, BIGNOUX, Monique J.
33: ZA 31: 2019/02879 32: 2019-05-09
54: A METHOD OF DECREASING CONCENTRATION OF TAU (τ) PROTEIN AND/OR PHOSPHORYLATED TAU (τ) PROTEIN
00: -
This disclosure relates to a method of decreasing concentration of tau (t) protein and/or phosphorylated tau (t) protein in a target cell of a human or animal subject having Alzheimer's Disease (AD). The disclosure extends to use of biopharmaceutical agents including (i). 37 kDa/67 kDa laminin receptor precursor/ high affinity laminin receptor (LRP/LR) and/or a fragment thereof, or (ii). a transfecting agent for the expression of LRP/LR, for use in treating Alzheimer's Disease (AD).

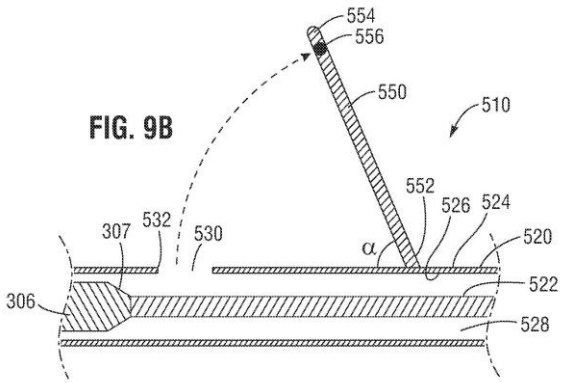
21: 2021/09325. 22: 2021/11/19. 43: 2024/07/09
51: B60K; B60S
71: SHANGHAI DIANBA NEW ENERGY TECHNOLOGY CO., LTD., AULTON NEW ENERGY AUTOMOTIVE TECHNOLOGY GROUP
72: ZHANG, Jianping, HUANG, Chunhua, ZOU, Rui, WAN, Libin, ZHOU, Junqiao
33: CN 31: 201711240305.X 32: 2017-11-30
54: BATTERY SWAPPING STATION AND CONTROL METHOD THEREFOR
00: -
Disclosed are a battery swapping station and a control method therefor. The battery swapping station comprises: a first charging compartment and a second charging compartment; a first battery swapping platform, the first battery swapping platform being arranged between the first charging compartment and the second charging compartment; a first shuttle and a second shuttle, both of which respectively travel back and forth between the first charging compartment, the second charging compartment, and the first battery swapping platform; and a control unit, the control unit being electrically connected to the first shuttle and to the second shuttle, used for controlling the first shuttle and the second shuttle to perform the following operation: when operating a same vehicle on the first battery swapping platform, if the first shuttle is executing either operation of battery unmounting or battery mounting, the second shuttle executes the other operation of battery unmounting or battery mounting. The battery swapping station and the control method therefor, by means of alternating operations of the first shuttle and the second shuttle, reduces the waiting time for vehicles when swapping batteries, thus increasing the battery swapping efficiency of the battery swapping station.



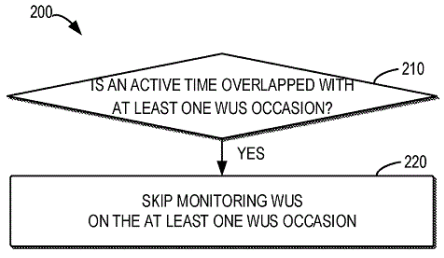
21: 2021/09587. 22: 2021/11/25. 43: 2024/05/21
51: A61K; A61P; C07D
71: Eli Lilly and Company
72: COATES, David Andrew, FIELDS, Todd, HO, Joseph Daniel, QU, Fucheng
33: US 31: 62/868,117 32: 2019-06-28
54: GLUCAGON-LIKE PEPTIDE 1 RECEPTOR AGONISTS
00: -
In an embodiment, the present invention provides a compound of the formula: or a pharmaceutically acceptable salt thereof, and methods of using this compound for treating type II diabetes mellitus.



21: 2021/09733. 22: 2021/11/29. 43: 2024/05/17
51: A61F; A61M
71: Edwards Lifesciences Corporation
72: SCHWARCZ, Elazar Levi, COHEN, Oren, WITZMAN, Ofir
33: US 31: 62/978,193 32: 2020-02-18
54: APPARATUS FOR MONITORING VALVE EXPANSION
00: -
Embodiments of a prosthetic valve delivery apparatus are disclosed. The delivery apparatus can include an indicator arm changeable between a first configuration and a second configuration. The second configuration is different from the first configuration in location or shape of the indicator arm. The indicator arm can be configured to remain in the first configuration when a diameter of the prosthetic valve is smaller than a first predetermined size, and change to the second configuration when the diameter of the prosthetic valve is expanded to the first predetermined size.

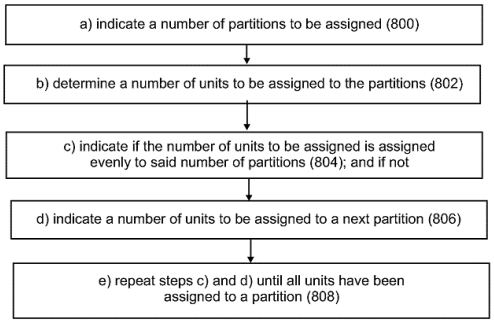


21: 2021/10155. 22: 2021/12/08. 43: 2024/05/23
51: H04W
71: NOKIA TECHNOLOGIES OY
72: WU, Chunli, TURTINEN, Samuli, KOSKINEN, Jussi-Pekka
54: WAKE UP SIGNALING HANDLING IN DISCONTINUOUS RECEPTION
00: -
Embodiments of the present disclosure relate to handling wake up signaling in discontinuous reception. A method comprises determining, at an apparatus, whether an active time during which the apparatus monitors transmissions from a further apparatus overlaps with at least one occasion for monitoring wake up signaling. The method further comprises in response to the active time overlapping with the at least one occasion, skipping monitoring wake up signaling on the at least one occasion. As such, power consumption for monitoring wake up signaling during the active time can be reduced.

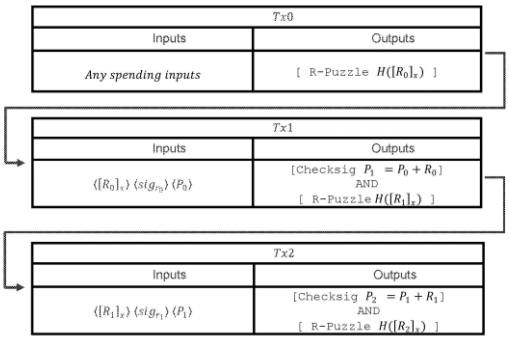


21: 2021/10475. 22: 2021/12/15. 43: 2024/05/23
51: H04N
71: NOKIA TECHNOLOGIES OY
72: HANNUKSELA, Miska
33: FI 31: 20195465 32: 2019-06-03
54: AN APPARATUS AND A METHOD FOR VIDEO CODING AND DECODING
00: -

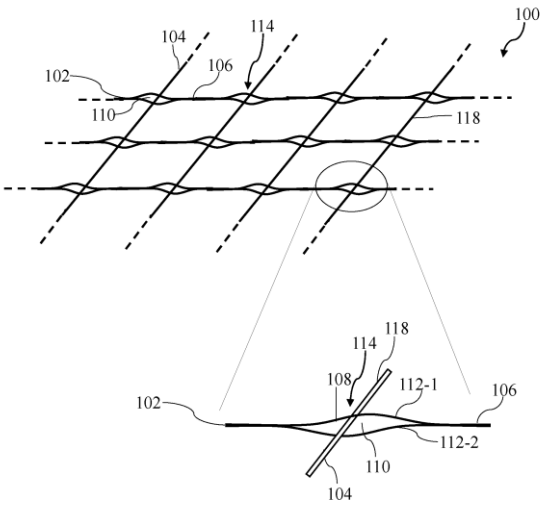
A method for video encoding or decoding comprising determining a number of units to be assigned to the partitions; indicating or inferring a number of explicitly sized partitions to be assigned; indicating sizes for or a number of units in the explicitly sized partitions; and indicating or inferring a number of evenly sized partitions to be assigned.



21: 2021/10604. 22: 2021/12/17. 43: 2024/05/23
51: H04L
71: nChain Holdings Limited
72: WAHAB, Jad, ZHANG, Wei, DOIRON, Brock, VAUGHAN, Owen, WRIGHT, Craig
33: GB 31: 1907395.6 32: 2019-05-24
54: BLOCKCHAIN TRANSACTION COMPRISING RUNNABLE CODE FOR HASH-BASED VERIFICATION
00: -
A method comprising, at a node of a blockchain network: obtaining a first transaction including runnable code specifying a reference instance of an r-part of ant ECDSA signature; receiving a second transaction including information comprising at least an s-part of the ECDSA signature, and obtaining a public key wherein the ECDSA signature signs a message based on a corresponding private key; and running the code from the first transaction, the code being configured to return a result of true, irrespective of whose private key was used as the first private key, on condition that: the ECDSA verification function, as applied to the ECDSA signature, verifies that the s-part received in the second transaction corresponds to the reference instance of the r-part specified by the first transaction, given the message received in the second transaction and the obtained first public key.



21: 2022/00223. 22: 2022/01/04. 43: 2024/06/26
51: B29D; B66C; D04G; D04H
71: TAMA GROUP
72: BLICH, Uri, EITAN, Rotem
33: US 31: 62/863,909 32: 2019-06-20
54: A NET
00: -
A net including a plurality of transverse bands, intersecting a plurality of longitudinal bands, the plurality of longitudinal bands each comprising two intermittently adhered films forming channels at discontinuities of adhesion between the films, and wherein at least one intersection of the longitudinal and transverse bands at least one transverse band is threaded through at least one of the channels of at least one longitudinal band.



21: 2022/00411. 22: 2022/01/07. 43: 2024/05/08
51: A61K; C07C; A61P
71: PHARMALEADS
72: PORAS, Hervé, FOURNIE-ZALUSKI, Marie-Claude, ROQUES, Bernard
33: FR 31: 1907537 32: 2019-07-05

54: N-FORMYLHYDROXYLAMINES AS NEPRILYSIN (NEP) INHIBITORS, IN PARTICULAR AS MIXED AMINOPEPTIDASE N (APN) AND NEPRILYSIN (NEP) INHIBITORS

00: -

The present invention relates to a compound of following formula (I):

$H\text{-}CO\text{-}N(OH)\text{-}CH_2\text{-}CH(R_1)\text{-}CO\text{-}NH\text{-}(CH_2)_n\text{-}CH(R_2)\text{-}(CH_2)_m\text{-}CO\text{-}R_3$ (I)

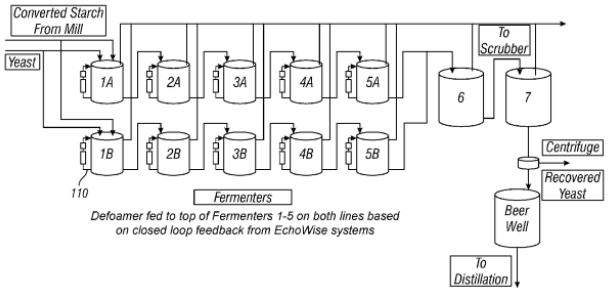
as well as a pharmaceutically acceptable salt and/or solvate thereof. The present invention also pertains to a pharmaceutical composition comprising at least one compound of formula (I) and at least one pharmaceutically acceptable excipient. The present invention also relates to the use of a compound of formula (I), or a pharmaceutically acceptable salt and/or solvate thereof, or a composition comprising it, as analgesic, anxiolytic, antidepressant or anti-inflammatory.

21: 2022/01094. 22: 2022/01/24. 43: 2024/05/08
51: B01D; C12M
71: BUCKMAN LABORATORIES INTERNATIONAL, INC.
72: MAGNESS, Bret, DUCATTI, João, LOPES, Erika Balzuweit, SANTOS, Egnaldo Dos, KURTZ, John, MORGANTE, Carolina, Mendes, BARROS, Rafael Lopes Duarte, HOWARD, Dave, SHARMA, Amit, BRANDEBURG, Nate, KUZNETSOV, Dimitri
33: US 31: 62/873,831 32: 2019-07-12
33: US 31: 62/880,522 32: 2019-07-30
33: US 31: 63/001,975 32: 2020-03-30

54: SYSTEM AND METHOD FOR OPTIMIZATION OF THE FERMENTATION PROCESS

00: -

The invention comprises one or more gas volume fraction measurement devices operatively connected to one or more controllers and one or more deaeration mechanisms which receive control signals from said one or more controllers and perform an act on the system, such as by controlling a level of deaeration chemistry into some portion of the fermentation system. In one embodiment, the deaeration mechanism is an antifoam feed pump which pumps antifoam chemistry into a feed line of the fermenter in response to the measured gas volume fraction in the fermenter's recirculation loop, in an amount determined by the controller to be effective to reduce foaming and lower column height in the fermenter.

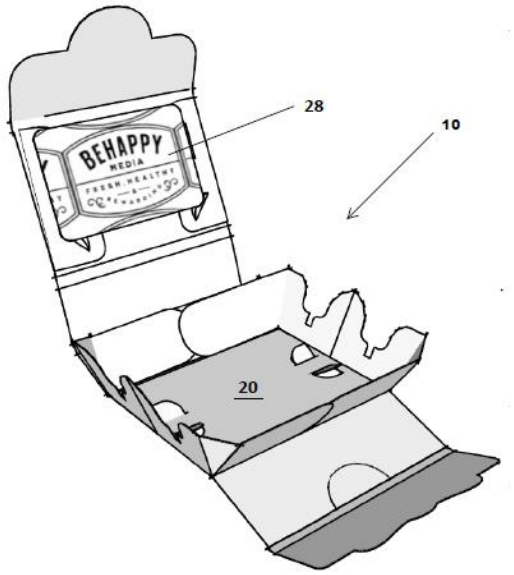


21: 2022/01139. 22: 2022/01/25. 43: 2024/06/28
51: B65D
71: GRADUS-SAMSON, Kyle
72: GRADUS-SAMSON, Kyle
33: ZA 31: 2020/06898 32: 2021-11-05

54: EGG CARTON WRAPPING AID

00: -

The invention relates to an egg carton wrapping aid which includes a top panel and a bottom panel connected to the top panel wherein the top and bottom panels are sized, shaped and configured to, in an operative wrapping condition, wrap around at least a 5 portion of at least two egg cartons to join the cartons together laterally and a pair of opposing side panels extending from a peripheral region of the bottom panel and at least a pair of extension panels extending from peripheral side regions of the side panels, the opposing side panels and pair of extension panels being configured to fold to form an egg carton receiving zone which is sized, shaped and configured to receive 10 and retain, in use, at least two egg support cups of each egg carton therein in a folded condition.



21: 2022/01336. 22: 2022/01/27. 43: 2024/06/11
51: A61K; C07D; A61P
71: QURIENT CO., LTD.
72: NAM, Kiyean, KIM, Jaeseung, JUNG, Chunwon, LEE, Saeyeon

54: DIFFERENT FORMS OF 6-CHLORO-2-ETHYL-N-(4-(4-(4-(TRIFLUOROMETHOXY)PHENYL)PIPERIDINE-1-YL)BENZYL)IMIDAZO[1,2-A]PYRIDINE-3-CARBOXAMIDE

00: -

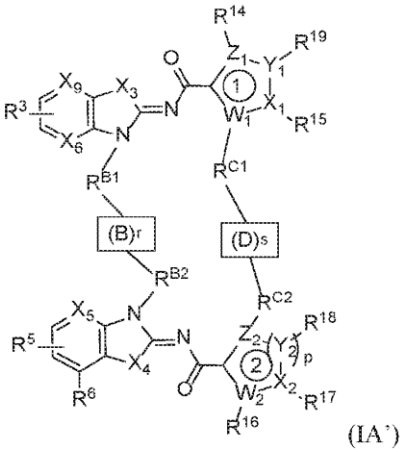
The present invention relates to different forms of the compound 6-chloro-2-ethyl-N-(4-(4-(4-(trifluoromethoxy)phenyl)piperidine-1-yl)benzyl)imidazo[1,2-a]pyridine-3-carboxamide and to methods of making such forms/compounds. The present invention furthermore relates to mono-acid addition salts thereof, to methods of making such mono-acid addition salts and to pharmaceutical compositions comprising any of the aforementioned compounds. Furthermore, the present invention relates to uses of any of these compounds.

21: 2022/01505. 22: 2022/02/02. 43: 2024/05/08
51: A61K; C07D; A61P
71: MERSANA THERAPEUTICS, INC.
72: DUVALL, Jeremy R., BENTLEY, Keith W., JONES, Brian D., KELLEHER, Eugene W., RAY, Soumya S., THOMAS, Joshua D., TOADER, Dorin
33: US 31: 62/882,081 32: 2019-08-02
33: US 31: 62/944,643 32: 2019-12-06
33: US 31: 62/982,935 32: 2020-02-28

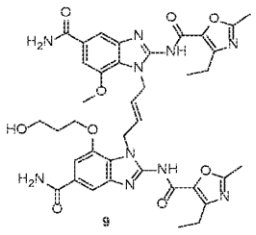
54: BIS-[N-((5-CARBAMOYL)-1H-BENZO[D]IMIDAZOL-2-YL)-PYRAZOL-5-CARBOXAMIDE] DERIVATIVES AND RELATED COMPOUNDS AS STING (STIMULATOR OF INTERFERON GENES) AGONISTS FOR THE TREATMENT OF CANCER

00: -

The present disclosure relates to compounds of formula (IA') as STING (Stimulator of Interferon Genes) agonists for use in the treatment of e.g. cancer, obesity, liver injuries, sugar-lipid metabolism and virus infections. The present description discloses the synthesis and characterisation of exemplary compounds as well as pharmacological data thereof (e.g. pages 128 to 286; examples 1 to 54; tables 1, 2a, 2b and 3). An exemplary compounds is e.g. example 1: (E)-N-(5-carbamoyl- l-(4-(5-carbamoyl-2-(4-ethyl-2-methyloxazole-5-carboxamido)-7- (3-hydroxypropoxy)-1H-benzo[d]imidazol-1-yl)but-2-en-1-yl)-7- methoxy-1H-benzo[d]imidazol-2-yl)-4-ethyl-2-methyloxazote-5-carboxamide (compound 9).



(IA')

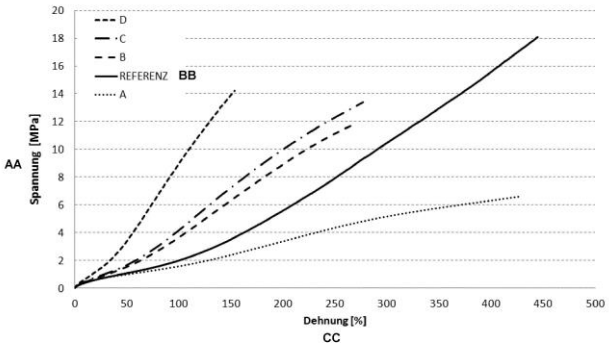


(compound 9)

21: 2022/01521. 22: 2022/02/03. 43: 2024/05/23
51: B01F; C09C

71: SunCoal Industries GmbH
72: WITTMANN, Tobias, BERGEMANN, Klaus
33: DE 31: 10 2015 014 956.3 32: 2015-11-21
54: PARTICULATE CARBON MATERIAL PRODUCIBLE FROM RENEWABLE RAW MATERIALS AND METHOD FOR ITS PRODUCTION
00: -

The present invention relates to a particulate carbon material that can be produced from renewable raw materials, in particular from biomass containing lignin, comprising: a ^{14}C content that corresponds to that of the renewable raw materials, said content being preferably greater than 0.20 Bq/g carbon, especially preferably greater than 0.23 Bq/g carbon, but preferably less than 0.45 Bq/g carbon in each case; a carbon content in relation to the ash-free dry substance of between 60 ma.% and 80 ma. %; an STSA surface area of the primary particles of at least 5 m^2/g and at most 200 m^2/g; and an oil absorption value (OAN) of between 50 ml/100g and 150ml/100g. The present invention also relates to a method for producing said carbon material and to the use thereof.

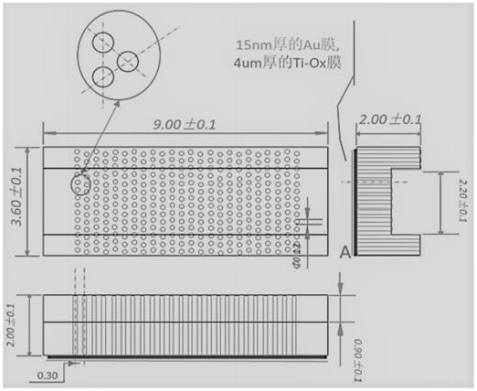


FIGUR 1

AA Stress [MPa]
BB Reference
CC Strain

21: 2022/01684. 22: 2022/02/08. 43: 2024/05/08
51: A24F
71: SHANGHAI QV TECHNOLOGIES CO., LTD.
72: PENG, Xiaofeng, PENG, Qiwen
33: CN 31: 201910742101.9 32: 2019-08-13
54: A NOVEL ATOMIZATION CORE
00: -

The present invention relates to the field of atomization applications. More specifically, the invention discloses a novel atomization core, comprising a core substrate and a heating body on the core substrate, wherein the core substrate is made of a dense material, with e-liquid transferring perforations distributed in the substrate; the diameter of the e-liquid transferring perforations is 1-250 μm; the wall spacing between two adjacent e-liquid transferring perforations is less than 500 μm; and the porosity of the dense ceramics is less than 30%. The disclosed novel atomization core can perform not only similar in-situ atomizing by controllable fluidic channels formed in the dense substrate but also quantified or dose controlled vaping by quantified flow control, further uniform vaping by controlled atomizing nucleation process and particle growing process. At the same time, ceramic powder and relatively toxic and harmful substances caused by the porous ceramic itself are avoided from entering the atomized aerosol, thereby a safer quantitative atomization is achieved.



15nm 厚的 Au 膜	15nm thick Au film
4um 厚的 Ti-Ox 膜	4μm thick Ti-Ox film

21: 2022/02110. 22: 2022/02/18. 43: 2024/06/11
51: E21B
71: LONGYEAR TM, INC.
72: DRENTH, Christopher L., CORONA, Robert Andrew
33: US 31: 16/544,333 32: 2019-08-19
33: US 31: 16/813,135 32: 2020-03-09
54: CONTINUOUS SAMPLING DRILL BIT
00: -

A drill bit comprises a first and a second body received within the first body. Each of the first body and second body has a respective crown, each crown having an inner and an outer operative

circumference. The outer operative circumference of the second body and the inner operative circumference of the first body can define a first volume that can receive a tubular core sample. The second body can define a break surface that breaks the tubular core sample into core pieces. The drill bit can be employed in a borehole with a reverse circulation system that pumps fluid around an outer surface of the bit, and returning fluid can carry the core pieces out of the borehole.

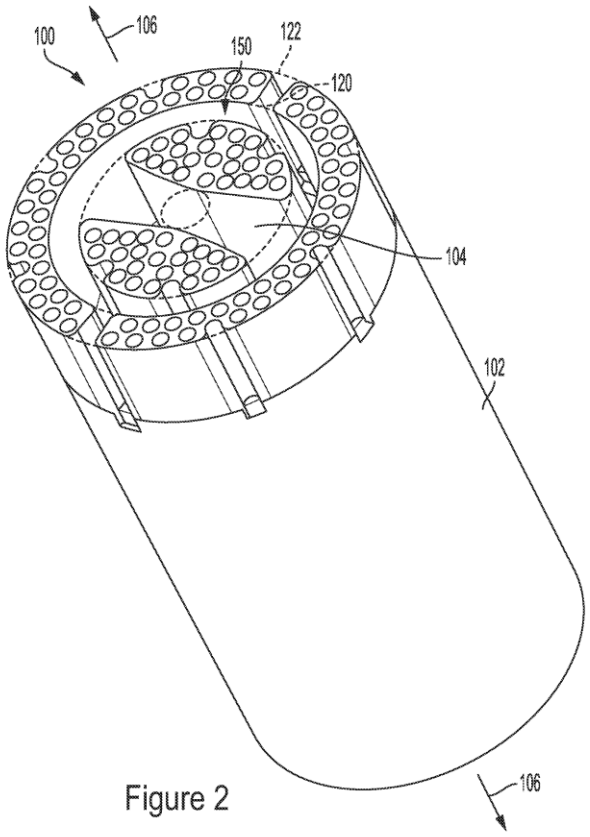
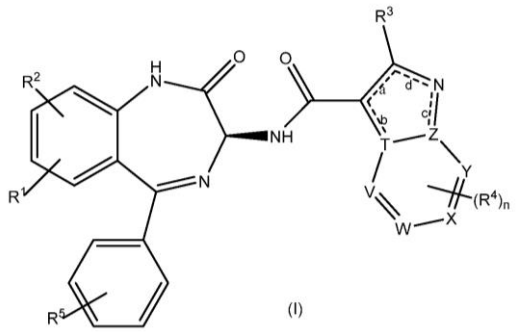
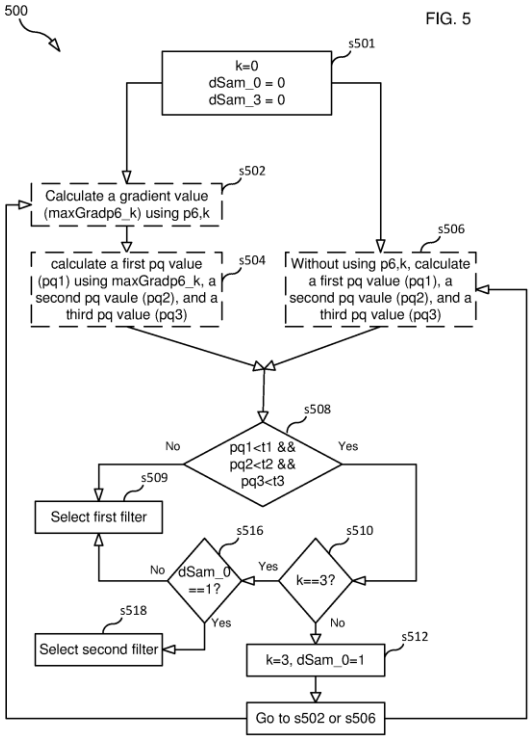


Figure 2

21: 2022/02375. 22: 2022/02/24. 43: 2024/06/07
51: A61K; C07D; A61P
71: PFIZER INC.
72: COCKERILL, George Stuart, GOOD, James, AVERY, Craig Alex, COCHRANE, Edward James, WARNER, Andrew Joseph
33: GB 31: 1911944.5 32: 2019-08-20
54: PHARMACEUTICAL COMPOUNDS
00: -
Benzodiazepine derivatives of formula (I): (I) wherein: each of R1 and R2 is independently H or halo; either (i) T is N, Z is C, ---a--- and --¬c--- are bonds, and ---b--- and ---d--- are absent; or (ii) T is C, Z is N, ---b--- and ---d--- are bonds, and ---a--- and ---c--- are absent; each of R3 and R4 is independently halo, -OR6, -NR6R7, -COR8, -C(O)OR8, -CON(R8)2 or -R6; R5 is H or halo; each of R6 and R7 is independently H or a group selected from C1-C6 alkyl, C3-C10 cycloalkyl, C6-C10 aryl, 4- to 10-membered heterocyclyl and 4- to 10-membered heteroaryl, the group being unsubstituted or substituted; R8 is H or C1-C6 alkyl, each R8 being the same or different when two are present; n is 0 or 1; and one of V, W, X and Y is N or CH and the other three are CH; and the pharmaceutically acceptable salts thereof are inhibitors of RSV and can therefore be used to treat or prevent an RSV infection.

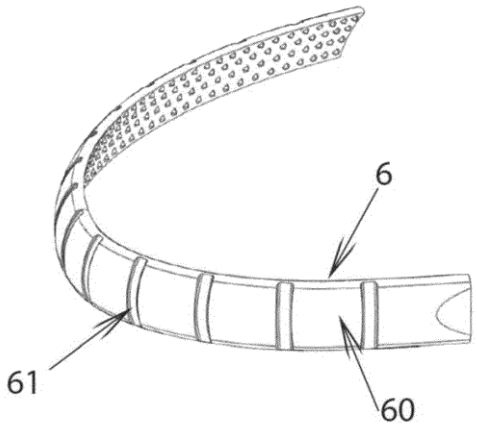

(I)

21: 2022/02419. 22: 2022/02/25. 43: 2024/06/05
51: H04N
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: ANDERSSON, Kenneth, ENHORN, Jack
33: US 31: 62/897,004 32: 2019-09-06
54: DEBLOCKING FILTER SELECTION IN VIDEO OR IMAGE CODING
00: -
The long filter decision in VVC is modified by adding at least one gradient check that at least includes sample p6 or q6. This makes it possible to avoid using the long filters when there is some natural structure at sample p6 or q6. In one specific embodiment at least two gradient checks including both q6 and p6 are added. In another embodiment, the dpq threshold is modified from beta >> 2 to beta >> 4. This threshold change embodiment may be used in conjunction with or instead of the embodiment in which a gradient check that includes p6 and/or q6 is added to the long filter decision.



21: 2022/02599. 22: 2022/02/28. 43: 2024/06/26
51: B23B
71: SULZER (SOUTH AFRICA) HOLDINGS (PTY) LTD
72: MARIUS IMANIEL ACKERMANN
33: ZA 31: 2020/07466 32: 2020-11-30
54: THRUST LEG
00: -
This invention relates to a thrust leg and more particularly, but not exclusively, to a hydraulic thrust leg for supporting a rock drill. The thrust leg having a body with a first, a second and a third flow path, the first flow path extending between an inlet and an outlet nozzle for connecting equipment; the second flow path extending from the inlet and splitting to a first secondary flow path that extends through a first opening and into an outer tube of the thrust leg and a second secondary flow path that extends through a first valve and through a second opening in the inner tube of the body of the thrust leg; and the third flow path extending from the inlet and into the first secondary flow path that extends through a first opening and into the outer tube of the thrust leg.

21: 2022/02877. 22: 2022/03/09. 43: 2024/06/13
51: A61B
71: OROMI, Gaston Enrique, EMEDICAL SOCIEDAD ANONIMA
72: LOPEZ, Federico
33: UY 31: 38363 32: 2019-09-09
54: ELASTIC PROSTHETICS OF RIBS
00: -
A prosthesis for splinting or replacing a rib, wherein it comprises a piece (60) curved in the longitudinal direction and in the transverse sense, which defines a concave face and a convex face, said prosthesis having a warping on its longitudinal axis and two or more transverse grooves (61) on its convex face to support the means for fixing the ribs. The prosthesis may eventually contain a line of radiopaque material that facilitates its radiological visibility.



21: 2022/02919. 22: 2022/03/10. 43: 2024/06/11
51: H04B; H04L
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: LOPEZ, Miguel, WILHELMSSON, Leif
54: P MATRICES FOR EHT
00: -
Methods and apparatus are provided. In an example aspect, a method of transmitting a multicarrier symbol comprising a plurality of subcarriers simultaneously from a plurality of antennas is provided. Each subcarrier is associated with a respective orthogonal matrix. The method comprises transmitting the symbol from the plurality of antennas such that, for each antenna, the symbol transmitted from each subcarrier is multiplied by an element of a respective row of the matrix associated with the subcarrier, wherein the row is associated

with the antenna. The matrices are selected such that from each antenna, the symbol transmitted from at least one subcarrier is multiplied by a non-zero element, and the symbol transmitted from at least one other subcarrier is multiplied by a zero element.

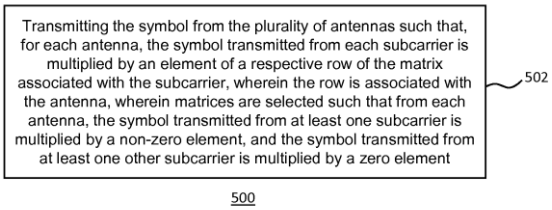


FIG. 5a

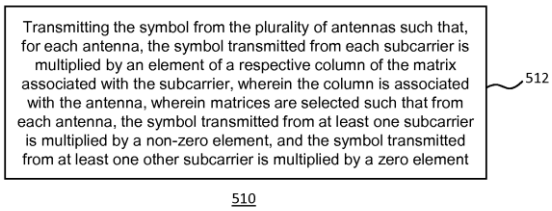
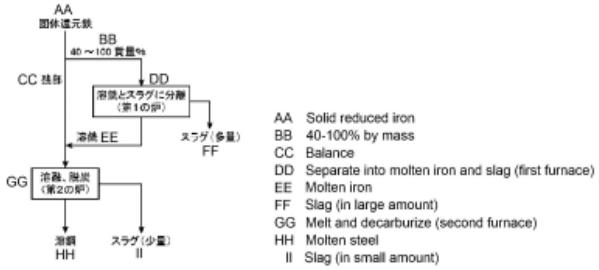


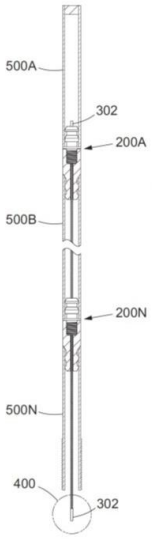
FIG. 5b

21: 2022/05336. 22: 2022/05/13. 43: 2024/05/07
51: A01N; A01P
71: LAINCO, S.A
72: BALLESTA PEREZ, Jordi, LAVADO LLAMAS, Antonio Miguel, CORES ARAGUNDE, Hugo
33: ES 31: P201930950 32: 2019-10-29
54: PHYTOSANITARY COMPOSITION FOR USE AS A BACTERICIDE
00: -
The present invention relates to a phytosanitary composition with bactericidal effect, which comprises eucalyptus oil, at least one diluent, at least one surfactant and at least one antioxidant; and to the use of the composition as a bactericide in the protection of plants.

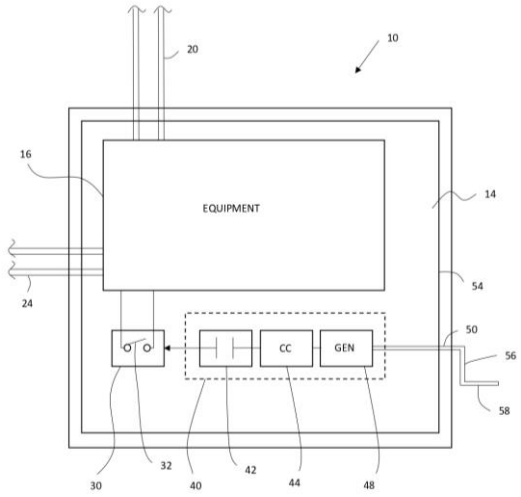
21: 2022/05543. 22: 2022/05/19. 43: 2024/05/22
51: C21B; C21C
71: Kabushiki Kaisha Kobe Seiko Sho (Kobe Steel, Ltd.)
72: TOKUDA, Koji, MIMURA, Tsuyoshi
33: JP 31: 2019-210829 32: 2019-11-21
54: METHOD FOR PRODUCING MOLTEN STEEL
00: -
With respect to a method for producing a molten steel according to one aspect of the present invention, a solid reduced iron contains a total of 3.0% by mass or more of SiO_2 and Al_2O_3 and 1.0% by mass or more of carbon; the proportion of iron metal in all iron contents contained in the solid reduced iron is 90% by mass or more; and the excessive carbon content Cx in the carbon contained in the solid reduced iron is 0.2% by mass or more. This method for producing a molten steel comprises: a step wherein from 40% by mass to 100% by mass of the solid reduced iron is melted in a first furnace, thereby being separated into a molten iron that has a carbon content of from 2.0% by mass to 5.0% by mass and a temperature of from 1,350°C to 1,550°C and a slag that has a degree of basicity of from 1.0 to 1.4; and a step wherein the balance of the solid reduced iron is melted together with the molten iron, which has been separated in the first furnace, and the molten material is decarburized by blowing oxygen thereto in a second furnace, thereby obtaining a molten steel.



21: 2022/06302. 22: 2022/06/07. 43: 2024/07/17
51: E21D
71: RSC MININT (PTY) LTD
72: STEYN, Johann
54: INDICATOR FOR A MODULAR ROCK BOLT
00: -
An indicator for determining the assembly status of a rock bolt consisting of a series of interconnectable hollow rock bolt components, the indicator including; at least one coupler for interconnecting two contiguous rock bolt componentS and an elongate flexible member extending through a bore formed in the coupler, with a first end and a second end of the flexible member each having a formation which prevents the elongate flexible member from being withdrawn from the bore, the flexible member being locatable within the interconnectable hollow rock bolt components so that, in use the first end is located within a leading rock bolt component and the second end is located within a trailing rock bolt component, so that, once assembled the second end protruding from the trailing rock bolt component provides a visual indication of the assembly status of the rock bolt.



21: 2022/06961. 22: 2022/06/20. 43: 2024/07/15
51: H02B
71: MARCUS, Dean Shane, MARCUS, Stanley
72: MARCUS, Dean Shane, MARCUS, Stanley
33: ZA 31: ZA2021/03701 32: 2021-05-31
54: SUBSTATION OPERATION
00: -
A substation, particularly a mini substation, comprising: an enclosure with electrical equipment and a safety circuit arrangement inside thereof, which, when activated allows the electrical equipment to be functional, and an electrical energy source for activating the safety circuit arrangement, wherein the electrical energy source comprises an energy storage device and a generator which is operable to input electrical energy into the energy storage device to enable activation of the safety circuit arrangement. The substation includes an actuator, which is accessible externally of the enclosure, which may be used to cause the operation of the generator. The energy storage device preferably includes a bank of capacitors, which may be charged by the energy source. The safety circuit arrangement comprises of a motorized switchgear which is operable to control the supply of power to the electrical equipment and which is powered by energy provided by the energy storage device.



21: 2022/08764. 22: 2022/08/03. 43: 2024/05/23
51: A23N
71: GRACE EUODIA INVESTMENTS (PTY) LTD
72: BERLEIN, Anthony Walter
33: WO 31: PCT/IB2020/061624 32: 2020-12-08
33: ZA 31: 2019/07766 32: 2019-12-09
54: NUT CRACKER
00: -
A nut cracker comprising a base adjustably secured to a supporting surface, a set of cracker plates comprising a movable plate and fixed plate defining a cracking space with a predeterminable size with an inlet and an outlet, the fixed plate being adjustably secured to the supporting surface and the movable plate being adjustably secured to at least one slide secured to the base, with angles of the fixed and movable plates relative to their support planes being adjustable between 45° and 90°, the base being slidingly adjustable relative to the supporting surface to adjust and set the mean size of the cracking space, the movable plate being driven by reciprocating drive means which reciprocally moves the movable plate with respect to the fixed plate on the slide.

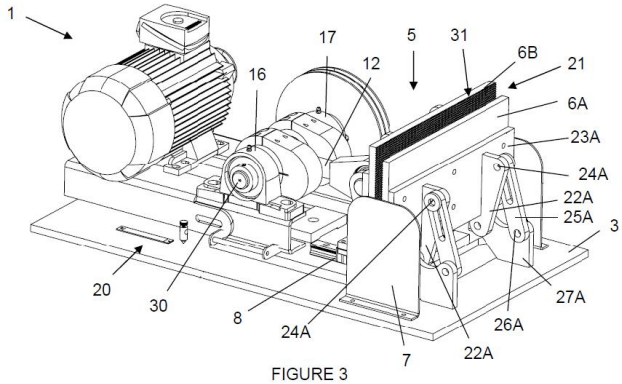


FIGURE 3

21: 2022/10228. 22: 2022/09/14. 43: 2024/05/10
51: F16L
71: S & B TECHNICAL PRODUCTS, INC.
72: QUESADA, Guido
33: US 31: 16/801,874 32: 2020-02-26
54: SEALING AND RESTRAINT SYSTEM FOR JOINING PLASTIC PIPE SECTIONS HAVING PRE-FORMED SOCKETS
00: -
A sealing and restraint system is shown for joining the spigot and socket ends of two sections of plastic pipe to form a pipe joint. The socket pipe ends are preformed at the factory with an internal raceway which receives both a sealing ring and a companion gripping ring. The sealing ring is an elastomeric member having a periphery with a protruding ear formed at one circumferential location. The companion gripping ring is a hardened member having one opening gap in the circumference thereof. The protruding ear on the sealing ring fits within the opening gap in the gripping ring, engagement of the protruding ear within the opening gap serving to prevent extrusion of the sealing ring within the gap in the gripping ring and also limiting closure of the gripping ring after engagement of the spigot end with the socket pipe end as the pipe joint is assembled.

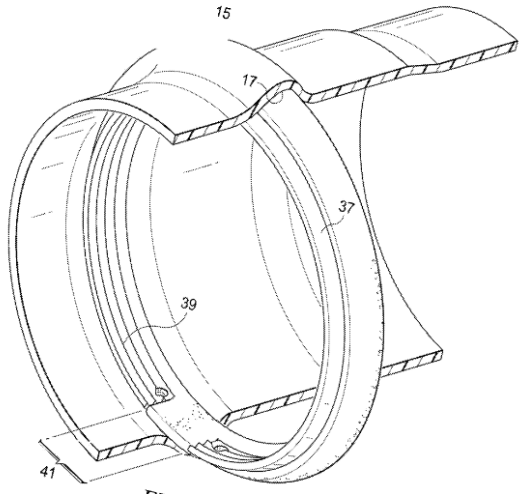
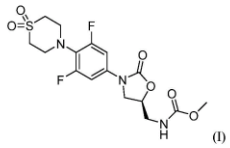


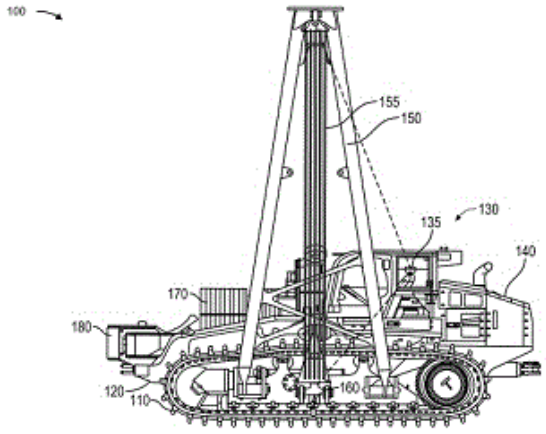
FIG. 5

21: 2022/10261. 22: 2022/09/15. 43: 2024/05/23
51: A61K; A61P; C07D
71: Merck Sharp & Dohme LLC
72: CROWLEY, Brendan M., NANTERMET, Philippe, OLSEN, David B., SUZUKI, Takao, YANG, Lihu, YOU, Lanying
33: PCT/CN 31: 2020/080359 32: 2020-03-20
54: OXAZOLIDINONE COMPOUND AND METHODS OF USE THEREOF AS AN ANTIBACTERIAL AGENT
00: -
The present invention relates to the oxazolidinone compound of Formula (I): and pharmaceutically acceptable salts thereof. The present invention also relates to compositions containing the compound of Formula (I). The invention also provides methods for inhibiting growth of mycobacterial cells as well as a method of treating mycobacterial infections by *Mycobacterium tuberculosis* by administering a therapeutically effective amount of Formula (I) and/or a pharmaceutically acceptable salt thereof, or a composition comprising such compound and/or salt.

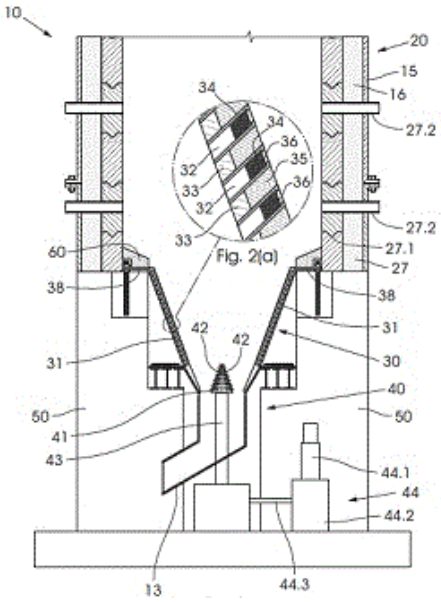

(I)

21: 2022/10339. 22: 2022/09/19. 43: 2024/05/02
51: B66C; F16L
71: CATERPILLAR INC.
72: CALDWELL, CURTIS J, VANCE, DONALD L, BARBIER, BENJAMIN
33: US 31: 17/449,896 32: 2021-10-04
54: PIPELAYER MACHINE WITH REAR ENGINE CONFIGURATION
00: -
A pipelayer machine (100) may comprise a machine chassis (120); an operator cabin (130) supported by

the machine chassis (120); an engine (140) supported by the machine chassis (120); and a boom (150) coupled to the machine chassis (120). The operator cabin (130) may include a seat assembly (135). The operator cabin (130) may be stationary with respect to the machine chassis (120). The pipelayer machine (100) may comprise a front portion and a rear portion. The engine (140) may be provided in the rear portion. The boom (150) may be provided forward with respect to the seat assembly (135).



21: 2022/10515. 22: 2022/09/22. 43: 2024/05/22
51: F27B
71: CSIR
72: MAPIRAVANA, JOSEPH
33: ZA 31: 2021/07350 32: 2021-09-30
54: VERTICAL SHAFT KILN
00: -
This invention relates to a vertical shaft kiln, and more particularly but not exclusively to a discharge mechanism for a vertical shaft kiln. The invention furthermore also relates to an air intake configuration of a vertical shaft kiln, and more particularly but not exclusively to an air intake configuration in a bottom discharge section of a vertical shaft kiln. Finally, the invention also relates to a method of operating a vertical shaft kiln, and to a new use for a vertical shaft kiln. The vertical shaft kiln includes a central column having an operatively upper end into which raw material is fed, and an operatively lower end from which processed material exits the column. A discharge section is provided at the operatively lower end of the column, and a rotating discharge device is located in a lower part of the kiln for aiding in the removal of the processed material from the kiln.



21: 2022/10524. 22: 2022/09/22. 43: 2024/05/16
51: A61K
71: BIONTECH SE
72: SAHIN, UGUR, GÜLER, ALPTEKIN, KUHN, ANDREAS, MUIK, ALEXANDER, VOGEL, ANNETTE, WALZER, KERSTIN, WITZEL, SONJA, HEIN, STEPHANIE, TÜRECI, ÖZLEM
33: EP 31: PCT/EP2020/083435 32: 2020-11-25
33: EP 31: PCT/EP2020/084342 32: 2020-12-02
33: EP 31: PCT/EP2021/052572 32: 2021-02-03
33: EP 31: PCT/EP2020/066968 32: 2020-06-18
33: EP 31: PCT/EP2020/073668 32: 2020-08-24
33: EP 31: PCT/EP2020/082601 32: 2020-11-18
33: EP 31: PCT/EP2020/085653 32: 2020-12-10
33: EP 31: PCT/EP2020/081981 32: 2020-11-12
33: EP 31: PCT/EP2020/087844 32: 2020-12-23
33: EP 31: PCT/EP2021/050875 32: 2021-01-15
33: EP 31: PCT/EP2021/054622 32: 2021-02-24
33: EP 31: PCT/EP2020/061239 32: 2020-04-22
33: EP 31: PCT/EP2020/068174 32: 2020-06-26
33: EP 31: PCT/EP2020/069805 32: 2020-07-13
33: EP 31: PCT/EP2020/071733 32: 2020-07-31
33: EP 31: PCT/EP2020/071839 32: 2020-08-03
33: EP 31: PCT/EP2020/081544 32: 2020-11-09
33: EP 31: PCT/EP2021/050027 32: 2021-01-04
33: EP 31: PCT/EP2021/050874 32: 2021-01-15
33: EP 31: PCT/EP2021/051772 32: 2021-01-26
33: EP 31: PCT/EP2020/082989 32: 2020-11-20
33: EP 31: PCT/EP2020/085145 32: 2020-12-08
33: EP 31: PCT/EP2021/052716 32: 2021-02-04
54: CORONAVIRUS VACCINE
00: -

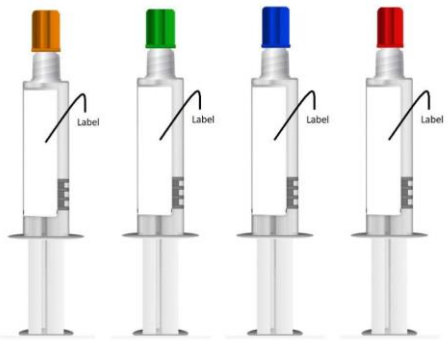
This disclosure relates to the field of RNA to prevent or treat coronavirus infection. In particular, the present disclosure relates to methods and agents for vaccination against coronavirus infection and inducing effective coronavirus antigen-specific immune responses such as antibody and/or T cell responses. These methods and agents are, in particular, useful for the prevention or treatment of coronavirus infection. Administration of RNA disclosed herein to a subject can protect the subject against coronavirus infection. Specifically, in one embodiment, the present disclosure relates to methods comprising administering to a subject RNA encoding a peptide or protein comprising an epitope of SARS-CoV-2 spike protein (S protein) for inducing an immune response against coronavirus S protein, in particular S protein of SARS-CoV-2, in the subject, i.e., vaccine RNA encoding vaccine antigen. Administering to the subject RNA encoding vaccine antigen may provide (following expression of the RNA by appropriate target cells) vaccine antigen for inducing an immune response against vaccine antigen (and disease-associated antigen) in the subject. In December 2019, a pneumonia outbreak of unknown cause occurred in Wuhan, China and it became clear that a novel coronavirus (severe acute respiratory syndrome coronavirus 2; SARS-CoV-2) was the underlying cause. The genetic sequence of SARS-CoV-2 became available to the WHO and public (MN908947.3) and the virus was categorized into the betacoronavirus subfamily. By sequence analysis, the phylogenetic tree revealed a closer relationship to severe acute respiratory syndrome (SARS) virus isolates than to another coronavirus infecting humans, namely the Middle East respiratory syndrome (MERS) virus. On February 2nd, a total of 14'557 cases were globally confirmed in 24 countries including Germany and a subsequent self-sustaining, human-to-human virus spread resulted in that SARS-CoV-2 became a global epidemic.

21: 2022/10911. 22: 2022/10/04. 43: 2024/05/23
51: C09D
71: SICPA HOLDING SA
72: VEYA, Patrick
33: EP(CH) 31: 20161164.7 32: 2020-03-05
54: UV-VIS RADIATION CURABLE SECURITY INKS

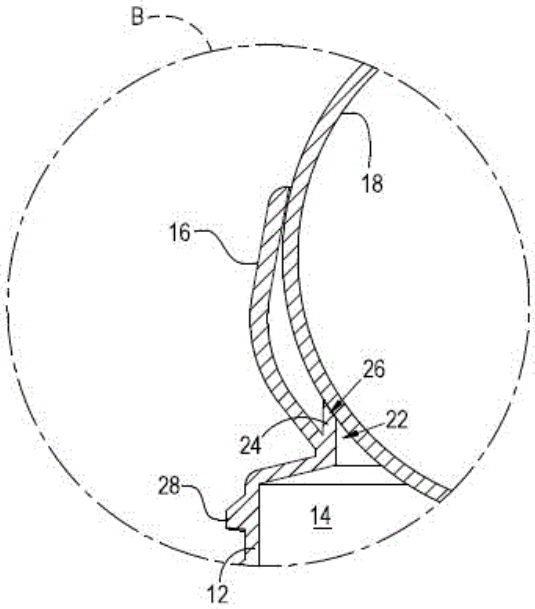
00: -
The present invention relates to the field of security inks suitable for printing security features on substrates, in particular on security documents or articles as well as security features made from said security inks, and security documents comprising a security feature made from said security inks. In particular, the invention provides UV-Vis radiation cation ically curable security inks and UV-Vis radiation curable hybrid security inks comprising an ink vehicle and pigments comprising a flake-shaped non- metallic or metallic substrate comprising one or more at least partial coating layers, an at least partial surface treatment layer made of one or more surface modifiers based on perfluoropolyethers.

21: 2022/11296. 22: 2022/10/14. 43: 2024/06/27
51: A61M
71: Donovan Clayton Kgomotso Lekola
72: Donovan Clayton Kgomotso Lekola
54: A MEDICAL SYRINGE

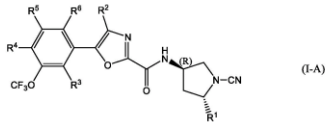
00: -
The syringe lids have varying colours to indicate the pre-filled fluid composition. The syringe comprises a tactile function to the extent the syringe comprises a raised pattern at a section of the barrel, alternately on base of the plunger. The pattern enables users to determine the pre-filled fluid composition. The raised pattern may be applied on the label and / or the barrel. This pattern will be akin to brail labelling of the syringe. The syringes are additionally designed to reduce the risk of vascular damage due to higher delivery pressures caused by smaller diameter designs. The barrel and plunger diameters are optimized to attenuate the delivery pressure generated at the tip of the syringe.

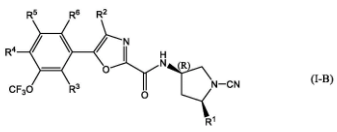


21: 2022/12065. 22: 2022/11/04. 43: 2024/05/27
51: A45D; B05C
71: EVOTEC PLASTICS PROPRIETARY LIMITED
72: LIEBENTRITT, Gernot
54: ROLL-ON APPLICATORS
00: -
A roll-on applicator 10 for dispensing a liquid formulation, comprises a plastics container 12 defining a chamber 14 for holding the liquid formulation; a plastics ball cage 16; a ball 18 rotatably mounted within the ball cage; and a removable cap 20. The ball cage 16 defines a cup-shaped seat within which the ball 18 is received and captured. The ball cage 16 has a sealing lip 22 comprising a resiliently flexible inwardly-projecting support formation 24 and an annular ball-contacting concave-curved sealing face 26 conforming to the curvature of the ball. The resilient flexibility of the support formation 24 maintains sealing contact between the sealing face and the ball when the cap is screwed onto the container. The concave curved sealing face 26 provides a relatively large sealing surface in contact with the ball, providing an effective seal between the ball and the ball cage.



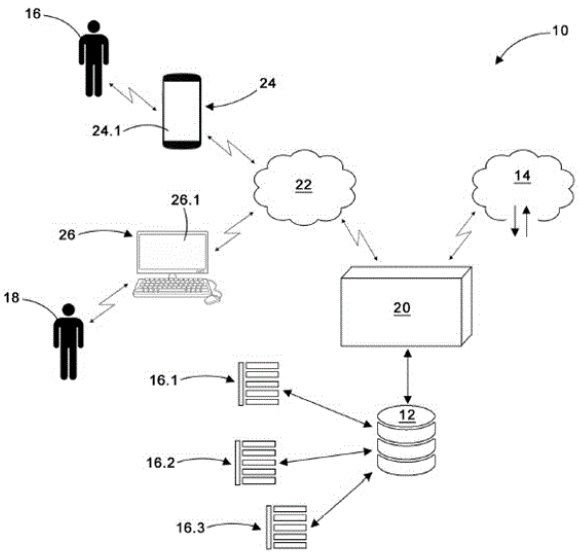
21: 2022/12137. 22: 2022/11/07. 43: 2024/05/22
51: A61K; A61P; C07D
71: Mission Therapeutics Limited
72: LUCKHURST, Christopher Andrew, KEMP, Mark Ian, THOMPSON, Paul William
33: GB 31: 2005250.2 32: 2020-04-08
54: N-CYANOPYRROLIDINES WITH ACTIVITY AS USP30 INHIBITORS
00: -
The present invention relates to a class of N-cyanopyrrolidines with activity as inhibitors of the deubiquitylating enzyme USP30, having utility in a variety of therapeutic areas, including conditions involving mitochondrial dysfunction, cancer and fibrosis.


(I-A)


(I-B)

21: 2022/12432. 22: 2022/11/15. 43: 2024/05/23
51: B67D
71: MARAIS, David, John

72: MARAIS, David, John
33: ZA 31: 2021/09751 32: 2021-11-30
54: GOODS AND SERVICE FACILITATION
00: -
The invention provides a need generating and facilitation system. The system includes a database of goods/service providers categorized into the particular goods and services that the goods/service providers offer, and an online platform operatively connected to the database of goods/service providers. The online platform is operable to receive a request for desired goods/services from a client, to access the database of goods/service providers, to match a potential goods/service provider with the request for desired goods/services, and to initiate contact between the client and the potential goods/service provider.



21: 2022/12440. 22: 2022/11/15. 43: 2024/07/15
51: F42B
71: BEUKES, Christo Andre
72: BEUKES, Christo Andre
33: ZA 31: 2020/04514 32: 2020-07-22
54: CONDUCTOR FOR USE WITH A DETONATOR AND DETONATOR ASSEMBLY
00: -
A detonator which includes a tube which is open at one end and closed at an opposing end, an explosive and a printed circuit board with electronic components on the board, a conductor with exposed wires which extend through the open end and which are kept in electrical engagement with contacts on the board, and a sealing member which is engaged with the open end and the conductor.

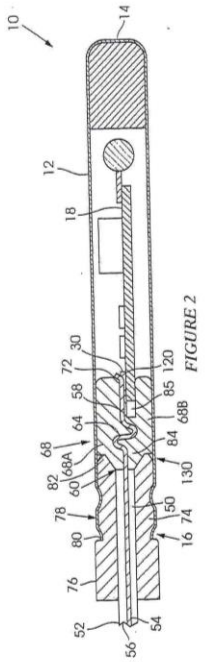
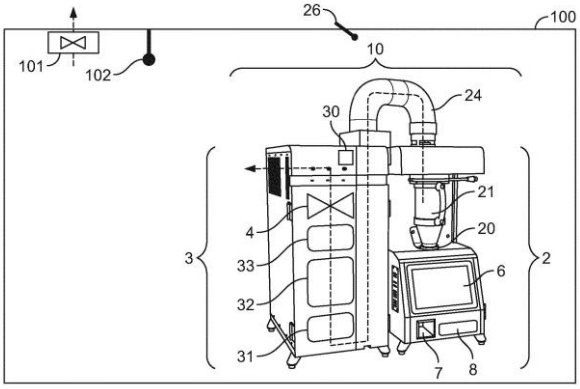


FIGURE 2

21: 2022/13094. 22: 2022/12/02. 43: 2024/05/02
51: A23F; A23N
71: Société des Produits Nestlé S.A.
72: DUBIEF, Flavien Florent, MOREND, Joël
33: EP(CH) 31: 20173946.3 32: 2020-05-11
54: METHOD TO ROAST COFFEE BEANS
00: -
The invention concerns a method to roast coffee beans in a room (100), said method comprising the steps of wherein, when at least one roasting operation is implemented, - obtaining desired roasting data input of said at least one roasting operation, said desired data input, - getting access to information relative to the room and to the coffee beans roasting apparatus, and - before initiating the at least one roasting operation:. determining the concentration of each contaminant generated in the room during said at least one roasting operation,. for each contaminant, comparing the determined concentration of said contaminant generated in the room with the concentration of said contaminant authorized according to local health and safety regulations.

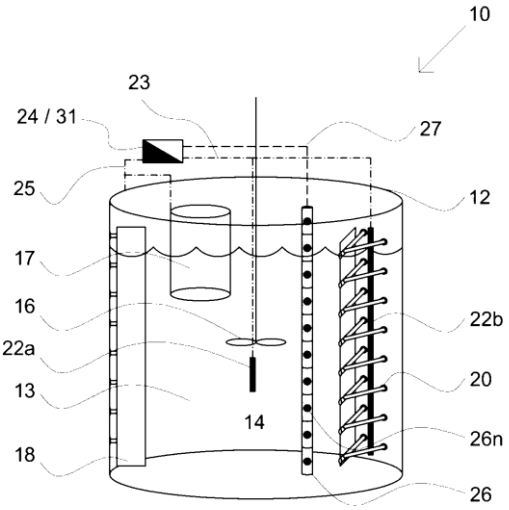


21: 2022/13540. 22: 2022/12/14. 43: 2024/05/15
51: G01N C23F
71: WISEGROW INVESTMENTS PTY LTD
72: HARRISON, Giles
33: AU 31: 2020901766 32: 2020-05-29

54: SURFACE CORROSION MONITORING SYSTEM

00: -

A surface corrosion monitoring system for a containment structure is disclosed. The surface corrosion monitoring system includes an electrode arrangement comprising an electrode electrically coupled with said structure, and a DC power supply arranged, in use, to deliver a predetermined voltage to the electrode which is sufficient to passivate and/or polarise or immunise an interior surface of said structure. The system also includes an electrode array comprising a plurality of spaced reference electrodes mounted on a framework, wherein each reference electrode is proximal to a localised interior surface of said structure and is arranged to measure a local potential indicative of current demand of the localised interior surface of the containment structure. A monitoring unit is also provided to monitor the local potentials measured by respective reference electrodes.

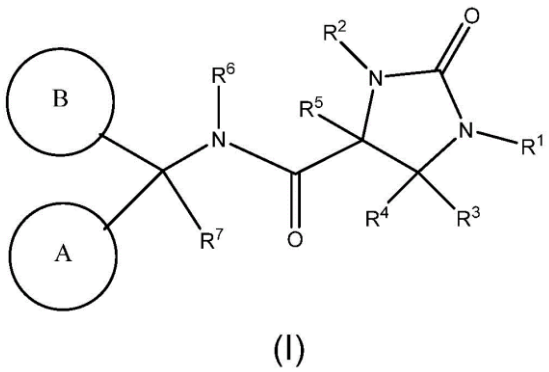


21: 2022/13566. 22: 2022/12/14. 43: 2024/05/02
51: C07D
71: Merck Sharp & Dohme LLC
72: ARASAPPAN, Ashok, BELL, Ian M., BUNGARD, Christopher James, BURGEY, Christopher S., COX, Jason M., KELLY III, Michael J., LAYTON, Mark E., LIU, Hong, LIU, Jian, PERKINS, James J., SHAH, Akshay A., VANHEYST, Michael David, WU, Zhe
33: US 31: 63/040,461 32: 2020-06-17

54: 2-OXOIMIDAZOLIDINE-4-CARBOXAMIDES AS NAV1.8 INHIBITORS

00: -

Novel compounds of the structural formula (I), and the pharmaceutically acceptable salts thereof, are inhibitors of Na1.8 channel activity and may be useful in the treatment, prevention, management, amelioration, control and suppression of diseases mediated by Na1.8 channel activity. The compounds of the present invention may be useful in the treatment, prevention or management of pain disorders, cough disorders, acute itch disorders, and chronic itch disorders.



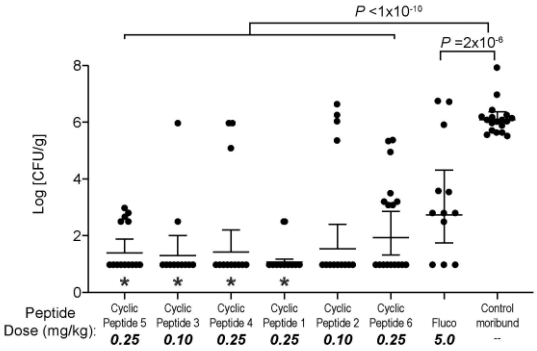
(I)

21: 2022/13770. 22: 2022/12/20. 43: 2024/05/22
51: A61K; A61P; C07K
71: The University of Southern California
72: SELSTED, Michael E., TRAN, Dat Q., SCHAAL, Justin B., BASSO, Virginia
33: US 31: 63/044,943 32: 2020-06-26

54: COMPOSITIONS AND METHODS FOR TREATMENT OF FUNGAL INFECTIONS

00: -

Peptide analogs of θ-defensin have been developed that provide a biphasic effect in treating disseminated fungal disease and/or associated septic shock. These analogs are active at concentrations below those needed to provide a fungicidal effect, and function by initially mobilizing effector cells of the immune system to address the infective organism followed by regulation of the immune system to down regulate the inflammatory response. These θ-defensin analogs are protective at concentrations where naturally occurring θ-defensins have no apparent effect, and include a core set of structural and sequence features not found in native θ-defensins.

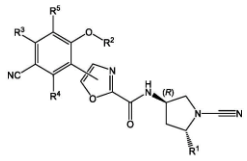


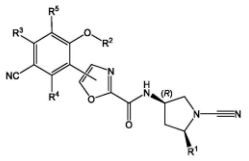
21: 2022/13866. 22: 2022/12/21. 43: 2024/05/22
51: A61K; A61P; C07D
71: Mission Therapeutics Limited
72: LUCKHURST, Christopher Andrew, KEMP, Mark Ian, THOMPSON, Paul William
33: GB 31: 2008401.8 32: 2020-06-04

54: N-CYANOPYRROLIDINES WITH ACTIVITY AS USP30 INHIBITORS

00: -

The present invention relates to a class of N-cyanopyrrolidines with activity as inhibitors of the deubiquitylating enzyme USP30, having utility in a variety of therapeutic areas, including conditions involving mitochondrial dysfunction, cancer and fibrosis: (formulae (I)(i) and (I)(ii)).



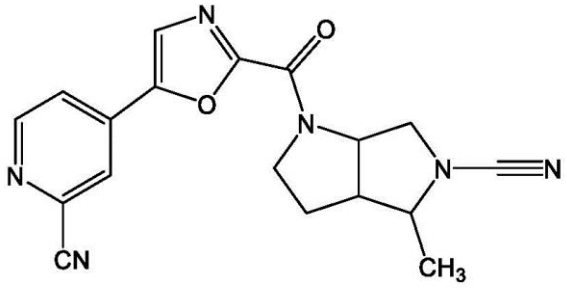


21: 2022/13877. 22: 2022/12/21. 43: 2024/05/22
51: A61K; A61P; C07D
71: Mission Therapeutics Limited
72: LUCKHURST, Christopher Andrew, KEMP, Mark Ian, THOMPSON, Paul William, STOCKLEY, Martin Lee
33: GB 31: 2008598.1 32: 2020-06-08

54: 1-(5-(2-CYANOPYRIDIN-4-YL)OXAZOLE-2-CARBONYL)-4-METHYLHEXAHYDROPYRROLO[3,4-B]PYRROLE-5(1H)-CARBONITRILE AS USP30 INHIBITOR FOR USE IN THE TREATMENT OF MITOCHONDRIAL DYSFUNCTION, CANCER AND FIBROSIS

00: -

The present invention relates to hexahydropyrrolo[3,4-b]pyrrole-5(1H)-carbonitriles with activity as inhibitors of the deubiquitylating enzyme USP30, having utility in a variety of therapeutic areas, including conditions involving mitochondrial dysfunction, cancer and fibrosis:.

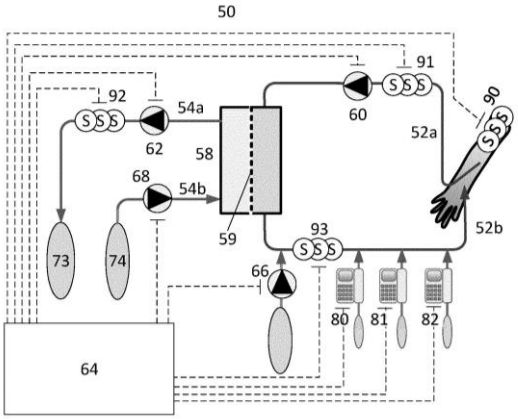


21: 2022/13887. 22: 2022/12/21. 43: 2024/05/23
51: A61M
71: Gambro Lundia AB
72: HOBRO, Sture, FORSAL, Innas, HANCOCK, Viktoria, NILSSON, Anders
33: SE 31: 2050621-8 32: 2020-06-01

54: SYSTEM AND METHOD FOR EXTRACORPOREAL BLOOD TREATMENT

00: -

The present application relates to an extracorporeal blood treatment system (50) for treating a subject, the system comprising: an extracorporeal blood circuit (52); a dialysate fluid circuit (54); said extracorporeal blood circuit and dialysate fluid circuit being divided by a membrane (56) of a filtration unit (58); at least one blood pump (60) for controlling the flow of blood through the blood circuit; at least one dialysate fluid pump (62) for controlling the flow of dialysate fluid through the dialysate fluid circuit (54); a system computing unit (64) operatively connected to the blood pump and the dialysate fluid pump, said system computing unit having at least one input means; wherein the system computing unit is adapted for receiving a desired blood concentration GLN_b of glutamine, for receiving a desired blood concentration $GLUCOSE_b$ of glucose, and for receiving a desired blood concentration of a ketone body $KETONE_b$; the system computing unit being adapted for controlling said blood pump and said dialysate fluid pump so as the actual concentration value GLN_a of glutamine is driven towards GLN_b and the actual concentration value $GLUCOSE_a$ of glucose is driven towards D_b. and the actual concentration value of ketone bodies is driven towards $KETONE_a$. The application also relates to a therapy set for use in the extracorporeal blood treatment system, a method for treating cancer using the system, a controller for controlling the method as well as a dialysis liquid suitable for the method.



21: 2022/13916. 22: 2022/12/22. 43: 2024/06/11
51: E02F; E21B
71: EDDY PUMP CORPORATION
72: WAHLGREN, Daniel, DURAN, Hector, GONZALEZ, Roberto
33: US 31: 17/668,099 32: 2022-02-09
33: US 31: 17/832,827 32: 2022-06-06
54: FLOAT APPARATUS
00: -

A float apparatus includes a buoyant device that has an outer surface with a first end portion, a second end portion and an elongated portion. The elongated portion extends from the first end portion to the second end portion. The buoyant device is shaped and configured to attach to a conduit. The elongated portion of the outer surface has a concaved section that extends from the first end portion to the second end portion. The concaved section has a shape that complements an outer radius of the conduit with the buoyant device attached to the conduit.

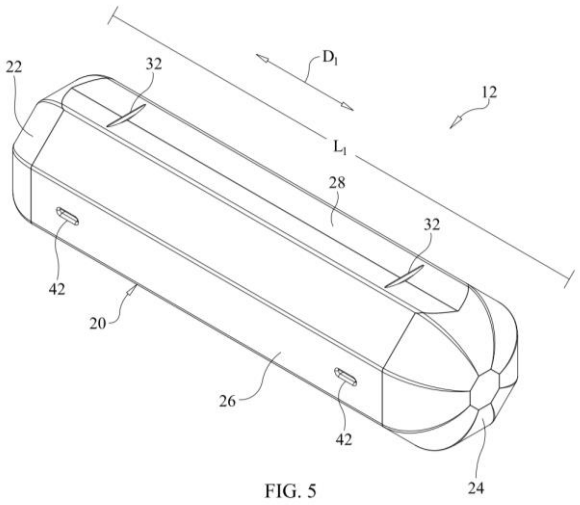


FIG. 5

21: 2023/00151. 22: 2023/01/03. 43: 2024/07/05
51: A24B; A61K
71: PHILIP MORRIS PRODUCTS S.A.
72: BRUUN, Heidi Ziegler, JAKOBSEN, Bine Hare, STAHL, My Ly Lao
33: DK 31: PCT/DK2020/050159 32: 2020-06-05
33: DK 31: PCT/DK2020/050160 32: 2020-06-05
33: DK 31: PCT/DK2020/050161 32: 2020-06-05
33: DK 31: PCT/DK2020/050162 32: 2020-06-05
33: DK 31: PCT/DK2020/050163 32: 2020-06-05
54: NON-TOBACCO ORAL NICOTINE POUCH COMPOSITION
00: -

A non-tobacco oral nicotine pouch composition is disclosed, the pouch composition comprising water in an amount of at least 15 % by weight of the pouch composition, nicotine, and at least one sugar alcohol, wherein the pouch composition is free of humectants consisting of alginate, propylene glycol, hydroxypropyl cellulose and glycerol. Also, an oral pouched nicotine product is disclosed.

21: 2023/00212. 22: 2023/01/04. 43: 2024/05/17
51: G06F
71: LEGISLATE TECHNOLOGIES LIMITED
72: BRECQUE, Charles
33: US 31: 63/036,729 32: 2020-06-09
33: US 31: 63/119,095 32: 2020-11-30
33: US 31: 17/212,520 32: 2021-05-25
54: SYSTEM AND METHOD FOR AUTOMATED DOCUMENT GENERATION
00: -

A semantic document generation system is described. The semantic document generation system receives an indication of a type of a

document to be generated and plurality of terms for the document from a plurality of sources. The terms are converted into triples. A plurality of rules governing the terms of the document is applied to the triples to generate a knowledge graph and determine whether terms from the different parties are compatible. The terms are determined to be compatible in a case where the plurality of rules governing terms of the document is satisfied. If at least one set of terms is non-compatible, the system reconciles the non-compatible terms in the generated knowledge graph until all the terms are compatible, and generates the document based at least on the reconciled knowledge graph.

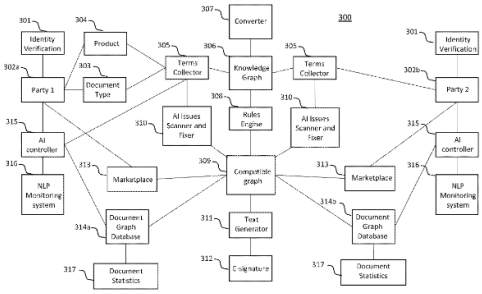


FIG. 3

21: 2023/00425. 22: 2023/01/10. 43: 2024/05/27
51: B82Y; H01G
71: Tshwane University of Technology, CSIR
72: RAY, Suprakas, SADIKU, Emmanuel, FOLORUNSO, Oladipo, HAMAM, Yskandar, KUMAR, Neeraj
33: ZA 31: 2021/09749 32: 2021-11-30
54: NANOCOMPOSITE MATERIALS
00: -
The present invention discloses a nanocomposite material including hybrid nanoparticles of copper oxide and graphene oxide, in particular, reduced graphene oxide, in a polymer matrix material.

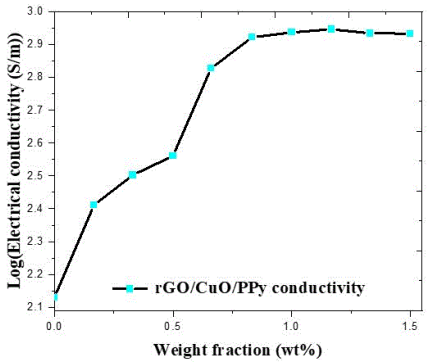


Figure 1. Electrical conductivity measurement of rGO/CuO/PPy

21: 2023/00535. 22: 2023/01/12. 43: 2024/05/08
51: G06F; G06K; G07C; H04W
71: THOUGHTFUL PTY LIMITED
72: FRIEDMAN, Adam, TO, Kwok Kit Jamie
33: AU 31: 2020902724 32: 2020-08-04
54: SYSTEM AND METHOD FOR PERSISTENT CONTACTLESS CHECK-IN
00: -
A method for persistent contactless check-in by a user device, including: detecting a NCC tag at a location including a uniform resource locator (URL); receiving the URL; determining whether a cookie associated with the domain is stored on the user device; identifying, if there is a stored cookie, a unique identifier (ID) stored in local storage of the user device; sending at least one HTTP request to an application server based on the remote server address; receiving at least one HTTP response; and, if the HTTP request did not include the unique ID, the user device receiving a newly generated cookie with a domain attribute including the domain, and storing the cookie on the user device for use when a further NCC tag is detected with a domain in the domain attribute of the cookie, and storing the new unique ID.

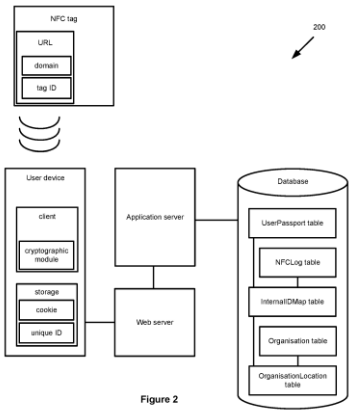
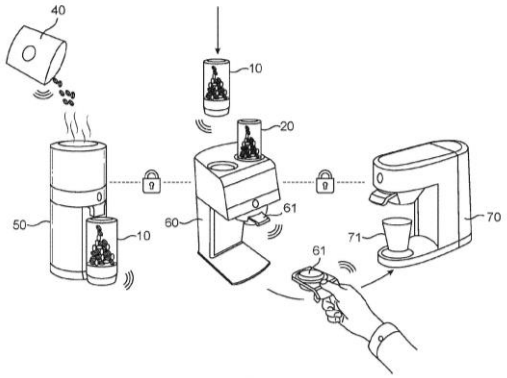


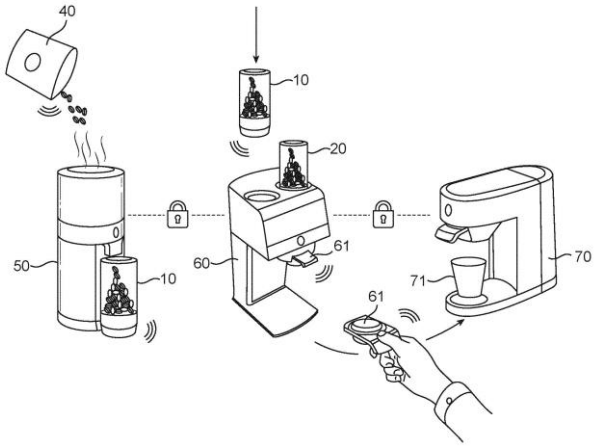
Figure 2

21: 2023/00772. 22: 2023/01/17. 43: 2024/05/02
51: A47J
71: Société des Produits Nestlé S.A.
72: AIT BOUZIAD, Youcef, YOAKIM, Alfred
33: EP(CH) 31: 20181829.1 32: 2020-06-24
54: ROASTING AND GRINDING APPARATUS FOR COFFEE BEANS
00: -
The invention relates to a roasting and grinding apparatus for coffee beans comprising a roasting device (50) and an associated grinding device (60); the roasting device (50) being configured for receiving coffee beans of a certain type that will be roasted, the roasting device (50) comprising reading means (53) to identify the characteristics of the coffee beans dispensed to it, the roasting device (50) further comprising a control unit configuring the roasting profile of the beans according to the characteristics retrieved from the reading means (53) and/or from the characteristics of the beans in a database (51) in this control unit and/or according to the user's input; the roasted coffee beans being dispensed into a beans container (10, 20), the beans container (10, 20) comprising programmable identification means where product parameters of the roasted coffee beans of a certain type are encoded on it by an encoder (52) in the roasting device; the grinding device (60) comprising one or more housings for receiving one or more beans containers (10, 20); the grinding device (60) comprising a reader (62) to obtain the information of the product parameters of the roasted coffee beans of the one or more beans containers (10, 20); the grinding device (60) further comprising a control unit configured to adapt the grinding size and the quantity of roasted coffee beans to be delivered from the coffee beans containers (10, 20) for obtaining a certain coffee quantity and/or a certain coffee blend quantity from each beans container to be grinded according to these product parameters and/or according to a recipes database (64), and/or according to the user's input. The invention further relates to a method for roasting and grinding coffee beans using a roasting and grinding apparatus as the ones described, and to the use of such a roasting and grinding apparatus.

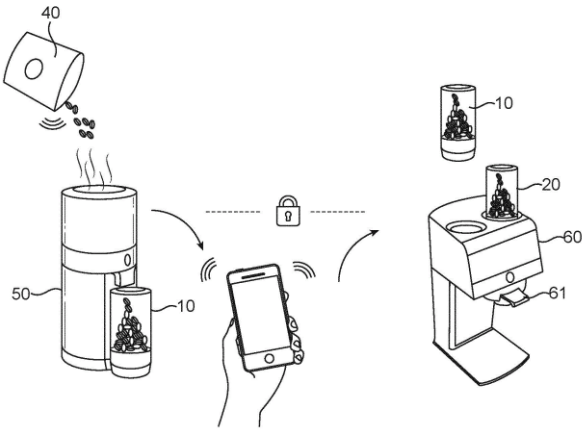


21: 2023/00773. 22: 2023/01/17. 43: 2024/05/02
51: A47J
71: Société des Produits Nestlé S.A.
72: AIT BOUZIAD, Youcef, YOAKIM, Alfred
33: EP(CH) 31: 20181832.5 32: 2020-06-24
54: GRINDING AND EXTRACTION APPARATUS FOR COFFEE BEANS
00: -
The invention relates to a grinding and extraction apparatus for roasted coffee beans comprising a grinding device (60) and an associated extraction device (70); the grinding device (60) comprising one or more housings for receiving one or more beans containers (10, 20) with roasted coffee beans of the same or different types; the grinding device (60) comprising a reader (62) to obtain the information of the product parameters of the roasted coffee beans of the one or more beans containers (10, 20); the grinding device (60) further comprising a control unit configured to adapt the grinding size and the quantity of roasted coffee beans for obtaining a certain coffee blend from each beans container to be grinded according to these product parameters and/or according to a recipes database (64) comprising the beverage information associated to the beverage to be prepared; the grinding device (60) further comprising an encoder (62) to encode the beverage information on programmable

identification means (65) on a product holder (61) in the grinding device (60), to where the grinded coffee is sent; the extraction device (70) being configured for receiving the product holder (61) and comprising reading means (72) to identify the beverage information in the said product holder identification means (65), the extraction device (70) further comprising a control unit to extract the beverage according to the beverage information retrieved and/or from the beverage information retrieved from a beverage database in this control unit. Moreover, the invention relates to a method for grinding roasted coffee beans and preparing a beverage from them using a grinding and extraction apparatus as the one described, and also refers to the use of a grinding and extraction apparatus as the one described for delivering a certain beverage from roasted coffee beans.



21: 2023/00775. 22: 2023/01/17. 43: 2024/05/02
51: A23N; A47J
71: Société des Produits Nestlé S.A.
72: AIT BOUZIAD, Youcef, YOAKIM, Alfred, SAVIOZ, Grégory
33: EP(CH) 31: 20181830.9 32: 2020-06-24
54: ROASTING AND PROCESSING APPARATUS FOR COFFEE BEANS
00: -
The invention relates to a roasting and processing apparatus for coffee beans comprising a roasting device (50) and an associated coffee processing device (60, 70); the roasting device (50) being configured for receiving coffee beans of a certain type that will be roasted, the roasting device comprising reading means (53) to identify the characteristics of the coffee beans dispensed to it, the roasting device (50) further comprising a control unit configuring the roasting profile of the beans according to the characteristics retrieved from the reading means (53) and/or from the characteristics of the beans in a database (51) in this control unit and/or according to the user input; the roasted coffee beans being transferred into a coffee processing device (60, 70) for beverage preparation, the roasting device (50) comprising a data transfer function to communicate product parameters of the roasted coffee beans of a certain type to the coffee processing device (60, 70); the coffee processing device (60, 70) receiving roasted coffee beans of one or more types from the roasting device (50); the coffee processing device comprising a data reader (62, 72) to obtain the information of the product parameters of the roasted coffee beans; the coffee processing device (60, 70) further comprising a control unit configured to adapt the processing parameters used for the beverage preparation as a function of the product parameters of the roasted coffee beans. Furthermore, the invention relates to a method for roasting and processing coffee beans using a roasting and processing apparatus as the one described. Also, the invention relates to the use of a roasting and processing apparatus as the one described for delivering a coffee beverage of a certain type and/or a certain quantity of grinded coffee.

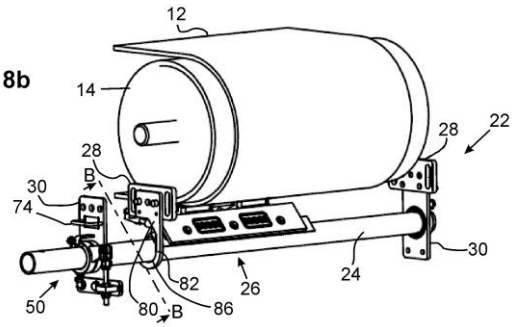


21: 2023/00836. 22: 2023/01/18. 43: 2024/05/02
51: A01N; A01P
71: UPL Corporation Limited, UPL Europe Ltd
72: SCHILLING, Brian, MCCREA, Trent

33: CA 31: 3,087,467 32: 2020-07-21
33: US 31: 63/054,573 32: 2020-07-21
54: FUNGICIDAL COMPOSITION
00: -
Described herein are fungicidal compositions and methods of controlling and/or suppressingphytopathogenic fungi and fungus-like pathogens and maintaining crop health. Particularlydescribed are fungicidal compositions and methods of controlling the phytopathogenic fungiand the Aphanomyces fungus-like pathogen and maintaining crop health in crops susceptibleto infection.

21: 2023/01019. 22: 2023/01/24. 43: 2024/05/23
51: B65G
71: KILL-FRECH, Cornelia
72: KIEL, Martin, WEIMANN, Claus
33: DE 31: 10 2020 131 557.0 32: 2020-11-27
33: DE 31: 10 2020 131 558.9 32: 2020-11-27
54: CONVEYOR BELT SCRAPER SYSTEM WITH SIMPLE MAINTENANCE
00: -
The invention relates to a scraper system for a conveyor belt (12), to a belt conveyor (10) comprising same, and to a method for carrying out installation, testing, or maintenance work. The scraper system comprises a system support (24) and at least one scraper module (26, 126) which is installed on the system support (24) and comprises a scraper element (42) for contacting the conveyor belt (12). In order to allow parts of the scraper system to be easily accessed for installation, testing, or maintenance purposes, a mounting (20) is provided for the system support (24), comprising at least one attachment part (28) for a stationary attachment relative to the belt frame (16) of the conveyor belt, a holding element (30) for attaching the system support (24) to the attachment part (28), and a support element (80) on the attachment part (28). The holding element (30) is coupled to the system support (24) via a clamping assembly (50) such that a torque can be applied to the system support (24) about the longitudinal axis thereof, and the holding element (30) is releasably connected to the attachment part (28). In an operational arrangement, the holding element (30) is connected to the attachment part (28) such that the system support (24) is held on the attachment part (28) via the holding element (30), and in an installation arrangement, the holding element (30) is released from the attachment part (28). The system support (24) together with a scraper module (26, 126) and the holding element (30) can be pulled out in the longitudinal direction of the system support (24) into a pull-out position such that the scraper module (26, 126) passes by the attachment part (28) upon pulling out the system support (24). In the pull-out position, the support element (80) supports the system support (24).

Fig. 8b



21: 2023/01020. 22: 2023/01/24. 43: 2024/05/23
51: B65G
71: KILL-FRECH, Cornelia
72: KIEL, Martin, WEIMANN, Claus, HEIDHUES, Dirk
33: DE 31: 10 2020 131 557.0 32: 2020-11-27
33: DE 31: 10 2020 131 558.9 32: 2020-11-27
54: SCRAPER WITH AN EASILY REPLACEABLE SCRAPER ELEMENT
00: -
The invention relates to a scraper (18) for a conveyor belt (12), to a scraper module (26, 126) for same, to a belt conveyor (10) comprising same, and to a method for replacing a scraper element (42) on a scraper (18) or belt conveyor (10). The scraper (18) according to the invention comprises a system support (24) with at least one scraper module (26, 126). The scraper module (26, 126) has a base element (32) arranged on the system support (24) and a scraper element (42) for contacting the conveyor belt (12). In order to allow a particularly simple replacement of the scraper element (42), the scraper element (42) is rotatably attached about a rotational axis (64) relative to the base element (32) by means of a rotational coupling. The rotational coupling is designed such that in a rotatable position of the scraper element (42) within a fixed angular

range (68b), the scraper element (42) is rigidly coupled to the base element (32) in the direction of the rotational axis (64), and in a rotatable position of the scraper element (42) within a release angular range (68a), the scraper element (42) can be released from the base element (32) in the direction (20) of the rotational axis (64).

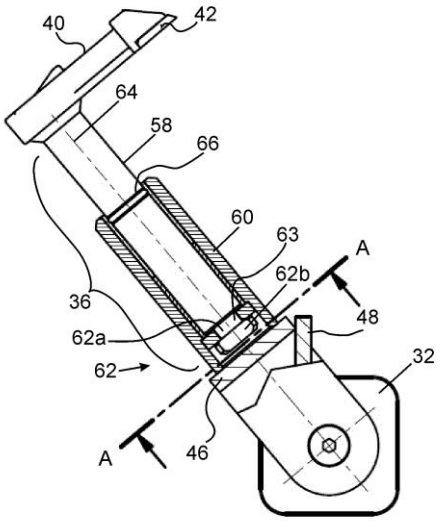
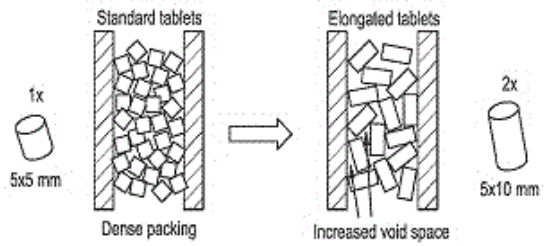


Fig. 5

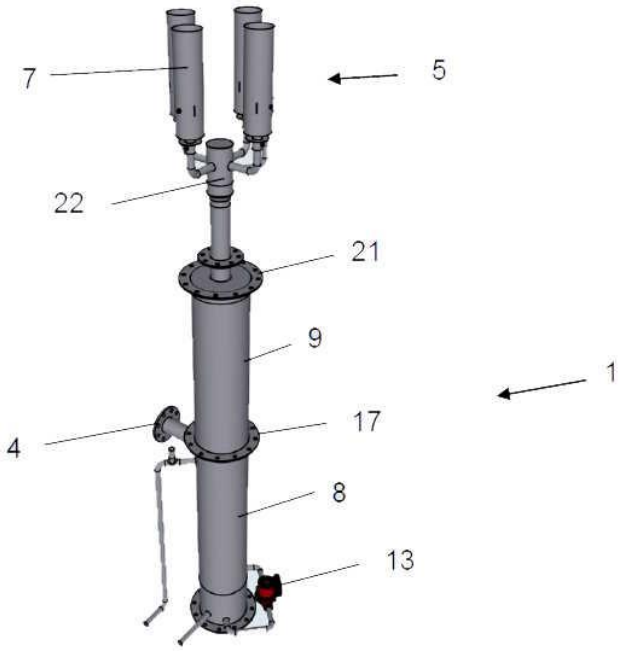
21: 2023/01054. 22: 2023/01/24. 43: 2024/05/28
51: B01J; C07C
71: DOW TECHNOLOGY INVESTMENTS LLC
72: GROHOL, DANIEL, BARTON, DAVID G
33: US 31: 63/046,350 32: 2020-06-30
54: PROCESSES FOR REDUCING THE RATE OF PRESSURE DROP INCREASE IN A VESSEL
00: -

The present invention generally relates to processes for reducing the rate of pressure drop increase in a vessel used for hydrogenation of aldehydes to alcohols. In one embodiment, the process comprises replacing a first set of catalyst pellets with a second set of catalyst pellets, wherein the second set of catalyst pellets have a higher average aspect ratio than the first set of catalyst pellets, a different shape than the first set of catalyst pellets, or a combination thereof, and wherein a void fraction of the second set of catalyst pellets is greater than the void fraction of the first set of catalyst pellets, wherein a pressure drop rate increase of the vessel partially filled with the second set of catalyst pellets is less than a pressure drop rate increase of the vessel partially filled with the first set of catalyst pellets when operated under substantially similar conditions.



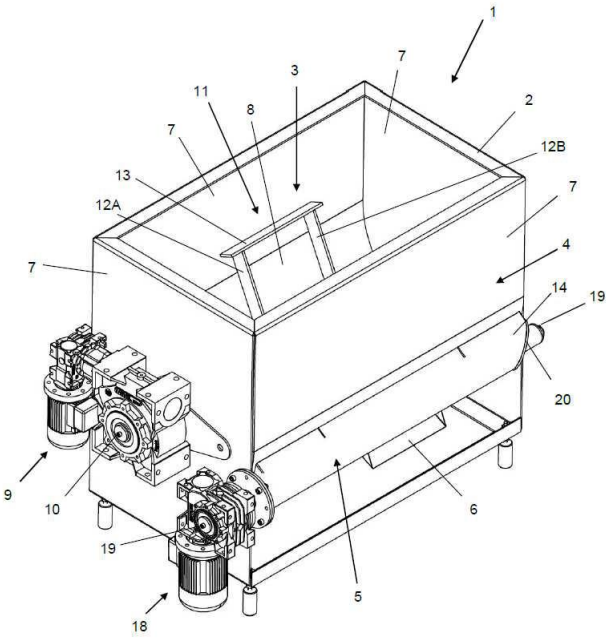
21: 2023/01065. 22: 2023/01/25. 43: 2024/05/27
51: F16J
71: GIFFORD, Jason Laurence
72: GIFFORD, Jason Laurence
33: ZA 31: 2021/08171 32: 2021-10-25
54: HYDRAULIC SEAL
00: -

There is disclosed a hydraulic seal for a gas comprising a sealed lower chamber and a sealed upper chamber each configured to contain a fluid in which the gas is substantially not dissolvable, configured for the fluid to be at rest within the lower chamber with the fluid head configured to exceed the pressure of gas in the gas supply line to provide a hydraulic seal by preventing the gas from flowing from the gas supply through the gas inlet in the lower chamber, and in use for fluid to be pumped from the lower chamber into the upper chamber to reduce the fluid head to a pressure lower than the pressure of gas in the gas supply line which opens the hydraulic seal and allows the gas to flow from the gas supply through the gas inlet in the lower chamber.



21: 2023/01099. 22: 2023/01/25. 43: 2024/05/27
51: C08J
71: EVONIK OPERATIONS GMBH
72: TRASSL, Christian, BERNHARD, Kay, ROOSEN, Dirk, HOLLEYN, Denis, PAREMAL, Vinod
33: EP 31: 20183473.6 32: 2020-07-01
54: PEI PARTICLE FOAMS WITH DEFINED RESIDUAL BLOWING AGENT CONTENT
00: -
Polymer foams based on polyetherimides (PEI) meet the legal requirements of the aerospace industry for both the interior and exterior of aircraft.

21: 2023/01135. 22: 2023/01/27. 43: 2024/05/27
51: B02C; B09B; C05F
71: GIFFORD, Jason Laurence
72: GIFFORD, Jason Laurence
33: ZA 31: 2021/05533 32: 2021-10-29
54: ORGANIC WASTE PROCESSOR
00: -
There is disclosed an organic waste processor comprising at least one chamber containing an inlet and an outlet for organic waste material, a mixer, a heating element, forced convection means, and a recirculator, with the inlet configured to enable loading of organic waste material, processing media and microorganisms into the chamber, and the outlet configured to enable discharge of composted organic waste material from the chamber, the mixer configured to mix organic waste material in the chamber, the heating element configured to heat organic waste material in the chamber, forced convection means configured to induce airflow across an operatively upper surface of organic waste material in the chamber to absorb at least some moisture from within the chamber and extract air from the chamber, and the recirculator configured to move organic waste material from a first position in the chamber to a second position in the chamber.



21: 2023/01215. 22: 2023/01/30. 43: 2024/07/16
51: A01N; C07D; A01P
71: SHANDONG UNITED PESTICIDE INDUSTRY CO., LTD.
72: TANG, Jianfeng, CHI, Huiwei, WU, Jianting, XU, Longxiang, ZHAO, Gongwen, LI, Dongrong, HAN, Jun, WANG, Dandan, YUAN, Xue
33: CN 31: 202010622002.X 32: 2020-07-01
54: USE OF TRIFLOXYSTROBIN FOR PREVENTION AND TREATMENT OF AGRICULTURAL PEST INSECTS AND MITES
00: -
Provided is the use of trifloxystrobin for the prevention and treatment of agricultural pest insects and mites. The trifloxystrobin can be configured as an agriculturally allowable emulsifiable concentrate, aqueous emulsion, aqueous solution, wettable powder, microemulsion, suspension, capsule, suspension, or water dispersible granule, wherein the content of the trifloxystrobin in the dosage form is 1–80%. The trifloxystrobin has an outstanding effectiveness of control of agricultural pest insects

and mites, and trifloxystrobin is a new compound, and there is no cross-resistance with existing products.

21: 2023/01268. 22: 2023/01/31. 43: 2024/05/22
51: B65G
71: LAITRAM, L.L.C.
72: BOGLE, DAVID W
33: US 31: 63/084,921 32: 2020-09-29
54: ROTATABLE RETAINER FOR HINGE RODS
00: -
A rotatable retainer for hinge rods in modular conveyor belts. The rod retainer includes a plug that is rotatably received in a socket in the edge portion of a conveyor belt module. An aperture through the plug is adjustable between a first locked and operational position guiding a hinge rod obliquely into a hinge-joint passageway between adjacent rows of belt modules and an unlocked second position guiding the hinge rod straight into the passageway. A sideguard, such as for a stacker belt, can optionally be formed with the plug.

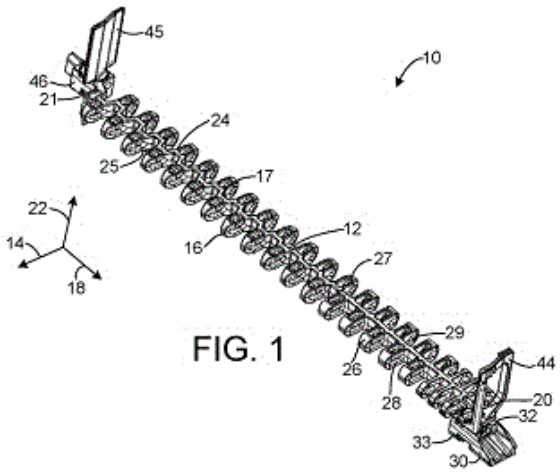
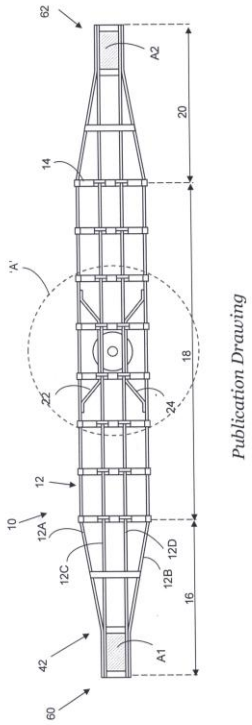


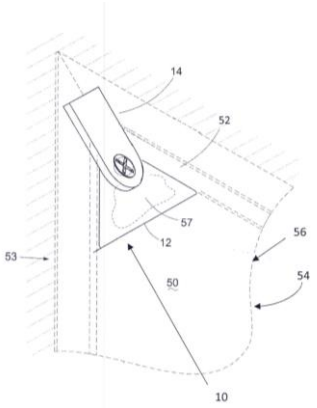
FIG. 1

21: 2023/01337. 22: 2023/02/02. 43: 2024/04/19
51: E21D
71: DDT MECHANISED MINING SERVICES (PTY) LTD
72: VAN NIEKERK, Dennis
33: ZA 31: 2021/08540 32: 2021-11-02
54: WALL SUPPORT STRAP
00: -
A wall support strap which includes a plurality of tendons and a plurality of strap members which connect at least two of the tendons to each other, such that a first end region, a middle region and a second end region are defined, wherein in the middle region the tendons are spaced apart and parallel to one another and in the first and second end regions outer tendons converge and are connected to respective inner tendons, and wherein the middle region includes at least one cross tendon which is connected to an outer tendon and extends to, and is connected to. an inner tendon, whereby a first acute angle is formed between the cross tendon and the outer tendon, and a second acute angle is formed between the cross tendon and the inner tendon.



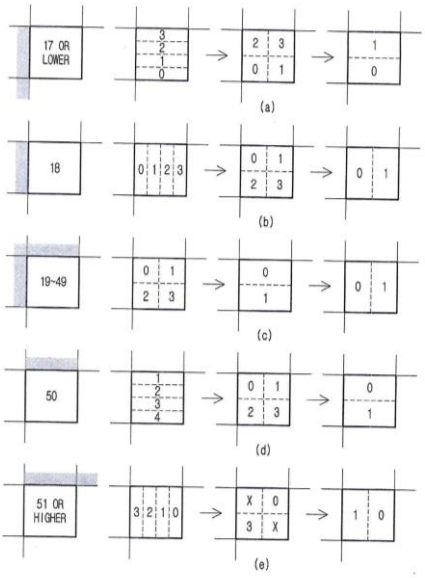
21: 2023/01338. 22: 2023/02/02. 43: 2024/04/19
51: H99Z
71: SCHARFFENORTH, Ronald Ralph
72: SCHARFFENORTH, Ronald Ralph
33: ZA 31: 2022/05307 32: 2022-05-13
54: A SECURITY DEVICE
00: -
A security device for use with a glass pane which is mounted to a frame which is attached to a supporting structure, the pane having an outer exposed side and an inner protected side, the security device comprising a first securing member which is configured to be secured to a surface of the

inner protected side, a second securing member which is configured to be secured to the frame or to the supporting structure, and a fastener which secures the second securing member to the first securing member.



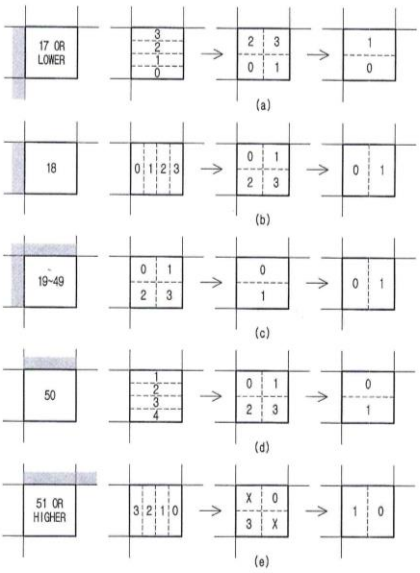
21: 2023/01406. 22: 2023/02/03. 43: 2024/07/15
51: H04N
71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC.
72: KIM, Ki Baek
33: KR 31: 10-2018-0037812 32: 2018-04-01
54: METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE
00: -

The objective of the present invention is to provide a method and an apparatus for intra prediction. In addition, the objective of the present invention is to provide a method and an apparatus for intra prediction on a sub-block unit basis. Furthermore, the objective of the present invention is to provide a method and an apparatus for determining a division and an encoding order of subblock units.

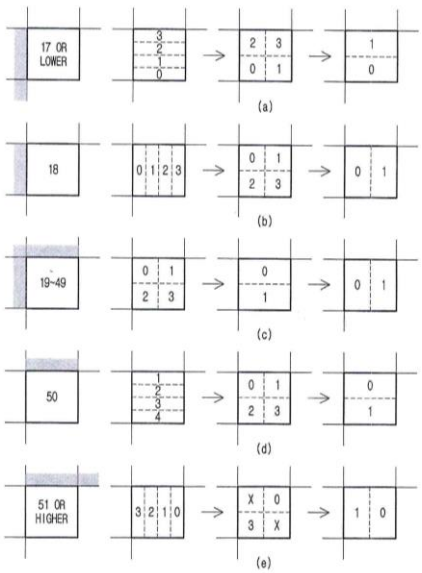


21: 2023/01408. 22: 2023/02/03. 43: 2024/07/15
51: H04N
71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC.
72: KIM, Ki Baek
33: KR 31: 10-2018-0037812 32: 2018-04-01
54: METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE
00: -

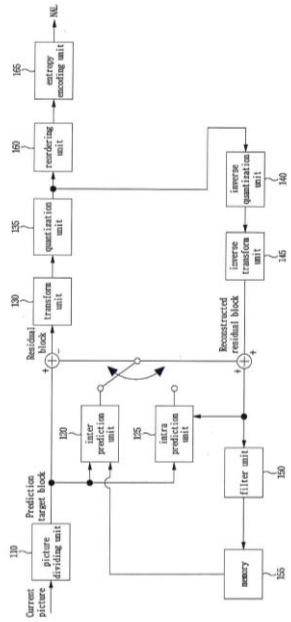
The objective of the present invention is to provide a method and an apparatus for intra prediction. In addition, the objective of the present invention is to provide a method and an apparatus for intra prediction on a sub-block unit basis. Furthermore, the objective of the present invention is to provide a method and an apparatus for determining a division and an encoding order of subblock units.



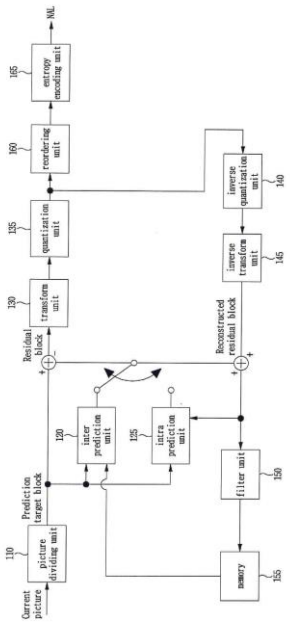
21: 2023/01409. 22: 2023/02/03. 43: 2024/07/15
51: H04N
71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC.
72: KIM, Ki Baek
33: KR 31: 10-2018-0037812 32: 2018-04-01
54: METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE
00: -
The objective of the present invention is to provide a method and an apparatus for intra prediction. In addition, the objective of the present invention is to provide a method and an apparatus for intra prediction on a sub-block unit basis. Furthermore, the objective of the present invention is to provide a method and an apparatus for determining a division and an encoding order of subblock units.



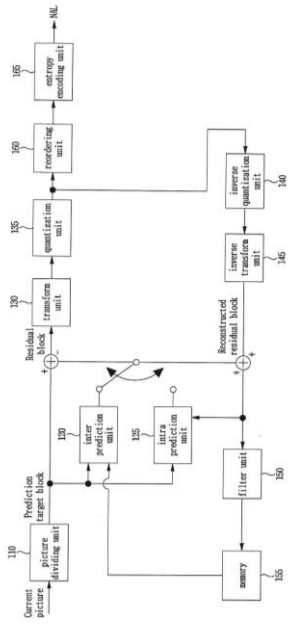
21: 2023/01411. 22: 2023/02/03. 43: 2024/07/15
51: H04N
71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC.
72: KIM, Ki Baek
33: KR 31: 10-2018-0173164 32: 2018-12-28
33: KR 31: 10-2018-0173228 32: 2018-12-29
54: INTRA PREDICTION-BASED VIDEO ENCODING/DECODING METHOD AND DEVICE
00: -
A video encoding/decoding method and device according to the present invention may: determine a reference area for the intra prediction of the current block; derive the intra prediction mode of the current block; and decode the current block on the basis of the reference area and the intra prediction mode.



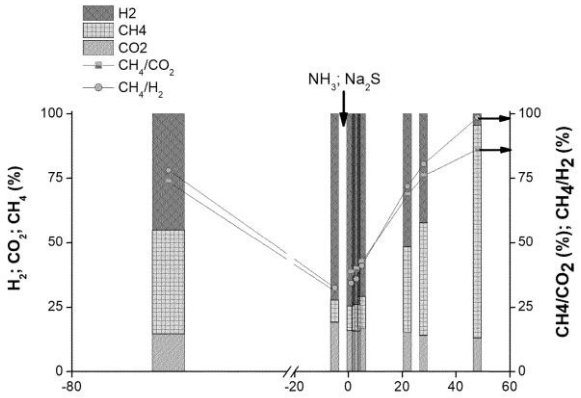
21: 2023/01412. 22: 2023/02/03. 43: 2024/07/15
51: H04N
71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC.
72: KIM, Ki Baek
33: KR 31: 10-2018-0173164 32: 2018-12-28
33: KR 31: 10-2018-0173228 32: 2018-12-29
54: INTRA PREDICTION-BASED VIDEO ENCODING/DECODING METHOD AND DEVICE
00: -
A video encoding/decoding method and device according to the present invention may: determine a reference area for the intra prediction of the current block; derive the intra prediction mode of the current block; and decode the current block on the basis of the reference area and the intra prediction mode.



21: 2023/01413. 22: 2023/02/03. 43: 2024/07/15
51: H04N
71: B1 INSTITUTE OF IMAGE TECHNOLOGY, INC.
72: KIM, Ki Baek
33: KR 31: 10-2018-0173164 32: 2018-12-28
33: KR 31: 10-2018-0173228 32: 2018-12-29
54: INTRA PREDICTION-BASED VIDEO ENCODING/DECODING METHOD AND DEVICE
00: -
A video encoding/decoding method and device according to the present invention may: determine a reference area for the intra prediction of the current block; derive the intra prediction mode of the current block; and decode the current block on the basis of the reference area and the intra prediction mode.



21: 2023/01529. 22: 2023/02/07. 43: 2024/06/25
51: C12P
71: ELECTROCHAEA GMBH
72: RODRIGO, Jose, PATEL, Nitant, COCIANCICH, Matteo, HAFENBRADL, Doris
33: DE 31: 10 2020 123 184.9 32: 2020-09-04
54: METHOD TO PRODUCE A SYNTHESIS PRODUCT, E.G. METHANE UTILIZING METHANOGENIC MICROORGANISMS IN A MICROBIAL ELECTROLYSIS CELL (MEC) BY APPLYING A SEPARATED NUTRIENT FEEDING STRATEGY
00: -
The present invention refers to a method to produce methane or at least one other synthesis product by methanogenic microorganisms in a microbial electrolysis cell (MEC), while applying a separated nutrient feeding supply in a discrete or a continuous manner.



21: 2023/01866. 22: 2023/02/15. 43: 2024/05/27
51: H02H
71: Zhuzhou CRRC Times Electric Co., Ltd.
72: SHANG, Jing, XU, Shaolong, HUANG, Hao, FU, Gang, GAN, Weiwei, ZHANG, Zhibing, ZOU, Dangbing, CHEN, Jinyu, LIN, Zhenjun, ZOU, Donghai, XUE, Xin
33: CN 31: 202010751203.X 32: 2020-07-30
54: CONTROL DEVICE AND METHOD FOR TRACTION CONVERTER
00: -
A control device and a control method for a traction converter. The control device comprises a voltage measurement circuit and a transmission control unit. The voltage measurement circuit is used for measuring a power grid voltage and outputting a voltage signal. The transmission control unit is used for determining a power supply mode of a line according to the voltage signal, obtaining, by means of calculation, the power grid voltage according to the voltage signal, and controlling an operation mode of a main circuit of the traction converter according to the power supply mode and the power grid voltage. The control device can automatically detect a power supply mode and control an operation mode of a main circuit of a traction converter, thereby avoiding the risk of human misoperation, and improving the running safety of a rail vehicle.

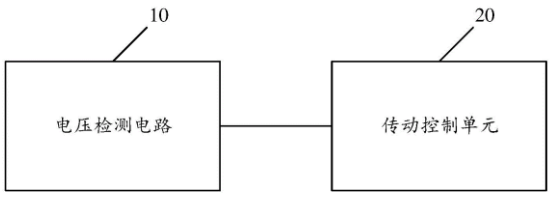
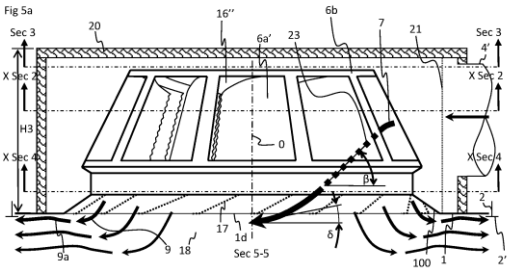


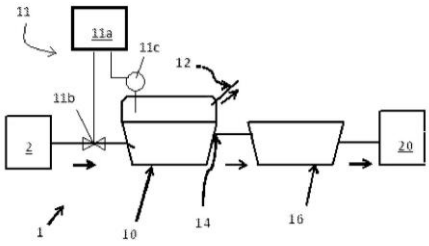
图 1

10 Voltage measurement circuit
20 Transmission control unit

21: 2023/02153. 22: 2023/02/21. 43: 2024/06/07
51: F24F
71: KAIP PTY LIMITED
72: BADENHORST, Sean, TENISON, Nicholas
33: AU 31: 2020902971 32: 2020-08-20
54: DIFFUSER UNIT AND METHOD OF DIFFUSING AN AIRFLOW
00: -
A diffuser unit having a damper compartment with a plurality of damper apertures. The damper apertures are open or closed by respective damper doors to induce a swirl to air exiting the diffuser via an air deflector which may be a diffuser with diffuser blades or a perforated plate. Alternative embodiments relate to a method of diffusing an airflow and a method of determining an airflow rate for a diffuser unit.



21: 2023/02406. 22: 2023/02/23. 43: 2024/05/27
51: C02F
71: Suez International
72: ALCOVER, Esther, SAUR, Thibaut, ROUEZ, Maxime
33: FR 31: 2007798 32: 2020-07-24
54: BIOLOGICAL TREATMENT OF EFFLUENTS RICH IN CARBONACEOUS MATTER AND NITROGEN WITH BIOGAS PRODUCTION
00: -
The invention relates to a method for biological treatment of an effluent, the effluent to be treated containing nitrogen in the form of ammonium and having a carbonaceous matter concentration measured by the chemical oxygen demand COD greater than or equal to 1 g per litre of effluent, the method comprising: a) a step of anaerobic digestion of the effluent to be treated in order to produce biogas and a digestate constituting a first liquid effluent having a reduced carbonaceous matter content, this step being implemented in a covered lagoon provided with a biogas recovery device, b) a step of biological treatment of the digestate obtained in step (a) in order to produce a second liquid effluent with reduced nitrogen content.

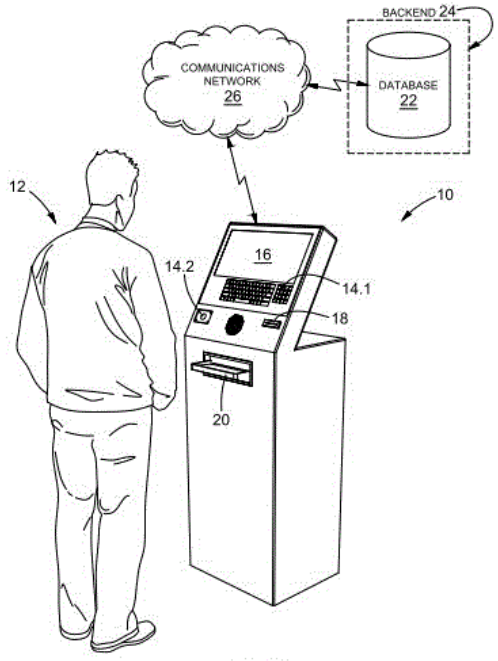


21: 2023/02533. 22: 2023/02/24. 43: 2024/05/23
51: C04B
71: CONSTRUCTION RESEARCH & TECHNOLOGY GMBH
72: BANDIERA, Massimo, SCHWESIG, Peter, SACHSENHAUSER, Bernhard, DHERS, Sebastian
33: EP 31: 20192857.9 32: 2020-08-26
54: LIMESTONE CALCINED CLAY CEMENT (LC3) CONSTRUCTION COMPOSITION
00: -
A limestone calcined clay cement construction composition comprises a) a cementitious binder comprising one or more calcium silicate mineral phases and one or more calcium aluminate mineral phases, and having a Blaine surface area of at least 3800 cm^2/g, in an amount of 180 to 400 kg per m^3 of the freshly mixed construction composition; b) a supplementary cementitious material having a Dv90 of less than 200 µm, in a total amount of 50 to 100 parts by weight, relative to 100 parts by weight of cementitious binder a), the supplementary cementitious material comprising (b-1) a calcined clay material and (b-2) a carbonate rock powder in a weight ratio of (b-1) to (b-2) in the range of 0.5 to 2; c) optionally, an extraneous aluminate source; d) a

sulfate source; and e) a polyol in an amount of 0.3 to 2.5 wt.-%, relative to the amount of cementitious binder a). The composition contains available aluminate, calculated as Al(OH)4–, from the calcium aluminate mineral phases plus the optional extraneous aluminate source, per 100 g of cementitious binder a), in a total amount of at least 0.08 mol, if the amount of cementitious binder a) is in the range of 180 to less than 220 kg per m³ of the freshly mixed composition, at least 0.06 mol, if the amount of cementitious binder a) is in the range of 220 to less than 280 kg per m³ of the freshly mixed composition, and at least 0.05 mol, if the amount of cementitious binder a) is 280 kg or more per m³ of the freshly mixed composition; and the molar ratio of total available aluminate to sulfate is 0.4 to 2.0. The construction composition further comprises f) an ettringite formation controller comprising (i) glyoxylic acid, a glyoxylic acid salt and/or a glyoxylic acid derivative; and (ii) at least one of (ii-a) a borate source and (ii-b) a carbonate source, wherein the carbonate source is selected from inorganic carbonates having an aqueous solubility of 0.1 g·L-1 or more, organic carbonates, and mixtures thereof; and g) a co-retarder selected from (g-1) a-hydroxy monocarboxylic acids and salts thereof, (g-2) phosphonic acids and salts thereof, (g-3) polycarboxylic acids and salts thereof, and mixtures thereof. The limestone calcined clay cement construction composition is a reduced carbon footprint composition and exhibits high early strength, high final strength, sufficient open time and high durability. Ingredients of the construction composition are abundantly available.

21: 2023/03315. 22: 2023/03/03. 43: 2024/05/15
51: A23L; A23K
71: MARS, INCORPORATED
72: LEROUXEL, M. NICOLAS
33: EP 31: 20198127.1 32: 2020-09-24
54: FOOD COMPOSITIONS AND APPLICATIONS THEREOF
00: -
The present disclosure relates to a food composition, product thereof and kits; including a combination of: (i) a camosic acid source, (ii) a hydroxytyrosol source, and (iii) a tannin source. The disclosure also relates to such food compositions, products and kits for use as a preservative and/or for use as a medicament, in particular in a method for eliciting or increasing an immune response of an animal.

21: 2023/03411. 22: 2023/03/08. 43: 2024/07/11
51: G06F; G06Q
71: SELECT REGISTRATIONS (PTY) LTD
72: HENNING, Lourens Andor Francois
33: ZA 31: 2022/01473 32: 2022-02-02
54: VEHICLE LICENSE RENEWAL KIOSK
00: -
The invention relates to a self-service vehicle license renewal kiosk allowing a customer 12 to conveniently renew a vehicle license for a vehicle.

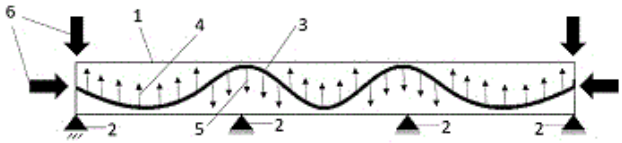


21: 2023/03413. 22: 2023/03/08. 43: 2024/05/23
51: B29B B29C C08J B01J B29K
71: EVONIK OPERATIONS GMBH
72: TRASSL, Christian, NIEPERT, Melanie, HOPF, Florian, HOLLEYN, Denis, GANGLAUF, Mona
33: EP 31: 20191446.2 32: 2020-08-18
54: PRODUCTION OF HIGH TEMPERATURE POLYMER BASED PELLETS BY UNDERWATER PELLETIZATION AT ELEVATED WATER TEMPERATURE TO PRODUCE (RIGID) BEAD FOAMS
00: -
Process for producing (rigid) bead foams by a process of underwater pelletization from a polymer composition featuring at least one polymer which

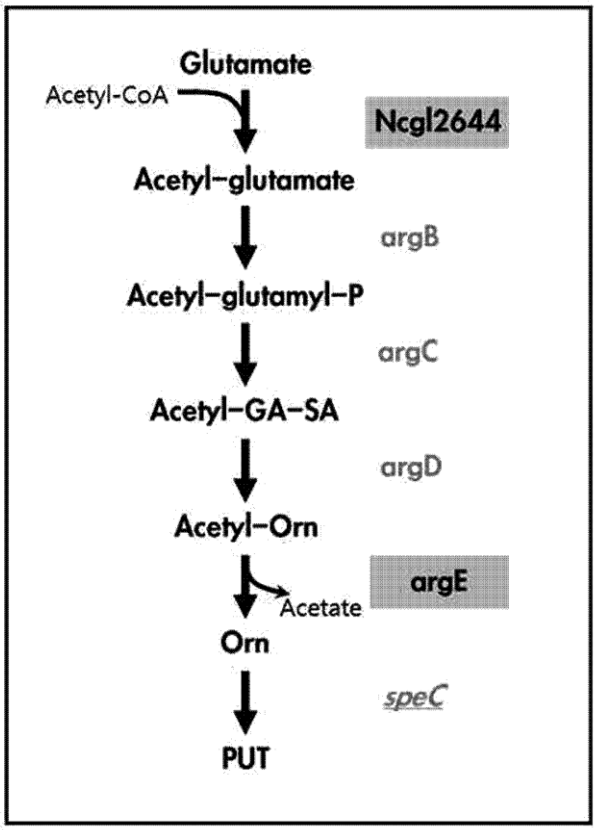
has a glass transition temperature according to ISO 11357-2 (publication: 2014-07) of at least 180°C, wherein the extruder polymer melt is conveyed in a pressurized first water circuit, wherein the pressure is in the range from 0.2 to 30 bar and the water temperature in the water circuit is in the range from 105°C to 180°C, and the use of these (rigid) bead foams.

21: 2023/03414. 22: 2023/03/08. 43: 2024/05/23
51: C12N C07K C12P
71: CJ CHEILJEDANG CORPORATION
72: PARK, Hye Min, KIM, So-Yeon, SIM, Hee-jin, YOO, Hyeryun, LEE, Jin Nam
33: KR 31: 10-2020-0115569 32: 2020-09-09
54: NOVEL O-PHOSPHOSERINE EXPORT PROTEIN AND METHODS FOR PRODUCING O-PHOSPHOSERINE, CYSTEINE, AND CYSTEINE DERIVATIVE USING SAME
00: -
The present application relates to a novel O-phosphoserine export protein and methods for producing O-phosphoserine, cysteine, and a cysteine derivative using the O-phosphoserine export protein.

21: 2023/03424. 22: 2023/03/08. 43: 2024/05/23
51: E04B; E04C
71: NV BEKAERT SA, CCL STRESSING INTERNATIONAL LTD
72: THOOFT, HENDRIK, HAYEK, CAROL
33: EP 31: 20250002.1 32: 2020-09-08
54: POST-TENSIONED CONCRETE WITH FIBERS FOR SLABS ON SUPPORTS
00: -
The present invention concerns a concrete slab resting on at least two supports, the slab comprising conventional concrete and a combined reinforcement of both draped post-tension steel strands and fibers, said post-tension steel strands - having a diameter ranging from 5 mm to 20 mm, - having a tensile strength higher than 1700 MPa, said fibers being either steel fibers and being present in a dosage ranging from 10 kg/m³ to 75 kg/m³ or being macro-synthetic fibers and being present in a dosage ranging from 1,5 kg/m³ to 9,0 kg/m³, whereby the slab and the supports are fully connected, partially connected or fully disconnected.



21: 2023/03479. 22: 2023/03/10. 43: 2024/05/23
51: C12N C12P
71: CJ CHEILJEDANG CORPORATION
72: LEE, Jaehun, LEE, Kyoung Min, BAE, Hyun-jung
33: KR 31: 10-2020-0101894 32: 2020-08-13
54: MICROORGANISM FOR PRODUCING PUTRESCINE AND PROCESS FOR PRODUCING PUTRESCINE BY USING SAME
00: -
The present invention relates to a microorganism for producing putrescine and a process for producing putrescine by using same.

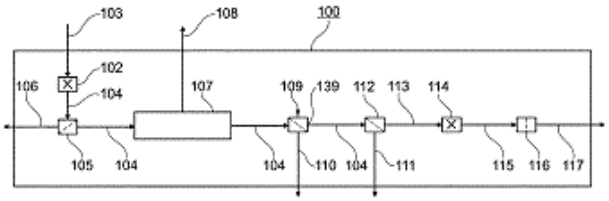


21: 2023/03489. 22: 2023/03/10. 43: 2024/05/02
51: C10L; B09B
71: RWE GENERATION NL B.V.
72: EURLINGS, JOHANNES THEODORUS GERARDUS MARIE
33: EP 31: 20204802.1 32: 2020-10-29

54: PELLETIZING FACILITY FOR THE GENERATION OF SOLID RECOVERED FUEL PELLETS AND USE OF THE SAME IN TORREFICATION

00: -

The pelletizing facility (100) according to the present invention allows the manufacture of solid recovered fuel pellets from municipal solid waste without separating parts of the municipal solid waste before starting the pelletizing process. Thus, a higher amount of the municipal solid waste can actually be used to manufacture solid recovered fuel pellets. The pelletizing facility (100) as well as the method according to the invention can be used in particular to manufacture solid recovered fuel pellets that can be used in the production of hydrogen and/or carbon dioxide enriched syngas by a torrefaction of the solid recovered fuel pellets with a subsequent gas treatment.

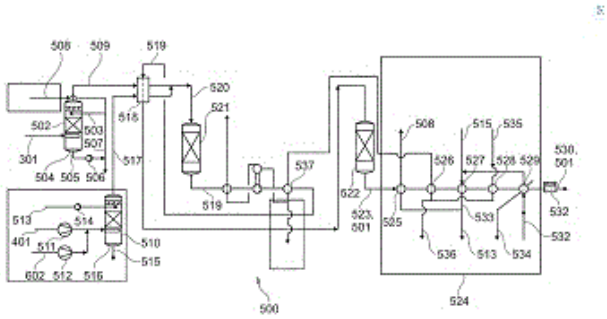


21: 2023/03500. 22: 2023/03/10. 43: 2024/05/30
51: C10K; C10L; C01B
71: RWE GENERATION NL B.V.
72: EURLINGS, JOHANNES THEODORUS GERARDUS MARIE
33: EP 31: 20204800.5 32: 2020-10-29

54: CO SHIFT UNIT FOR THE CONVERSION OF SOLID WASTE INTO SYNGAS

00: -

The CO shift unit 500 as part of the plant 1 for conversing solid waste into a product gas stream comprising hydrogen allows an energy efficient use of the low temperature heat energy in the low temperature heat recovery unit 524 to heat process water streams used in the plant 1.



21: 2023/03535. 22: 2023/03/13. 43: 2024/05/23
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: -

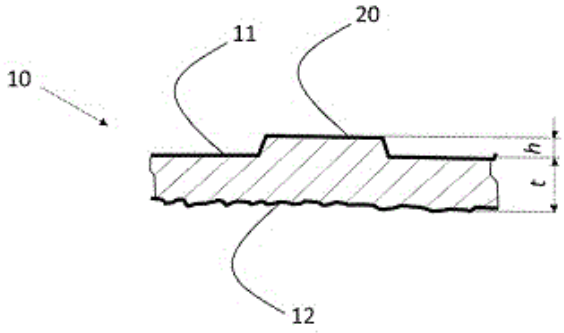
The present invention discloses a disruptive low capital and operational cost logistics system and method that provides for fast and massive delivery of e-commerce merchandise, including same day delivery, of thousands of items and packages, in extensive geographical areas, such as whole states, countries and continents, reducing the need for building, operating, or using multiple fulfillment warehouses located near the consumers as in traditional e-commerce logistics, creating a revolution in the e-commerce industry worldwide.

21: 2023/03537. 22: 2023/03/13. 43: 2024/05/23
51: B21H; B21B; B44B
71: CONSTELLIUM ISSOIRE
72: LORENZINO, PABLO
33: FR 31: FR2010325 32: 2020-10-09

54: SHEET METAL PLATE WITH RAISED AREAS FOR CREATING INDUSTRIAL FLOORING WITH IMPROVED ADHESIVE PROPERTIES

00: -

The invention relates to a sheet metal plate (10) for creating flooring (30), in particular for industrial vehicles, having on its upper surface (11) a plurality of raised patterns, each raised pattern comprising one or more protruding portions (20), the raised patterns being arranged periodically, discreetly and in orderly fashion, the height h of the raised patterns being between 0.3 and 3 mm, characterised in that the plate has, on its lower surface (12), which is intended to be bonded to a support member, a rough surface the roughness Rmax of which is between 10 µm and 250 µm. The invention also relates to the method of producing said plate and the use of said sheet metal plate for creating flooring for industrial vehicles, preferably flooring for refrigerated vehicles.

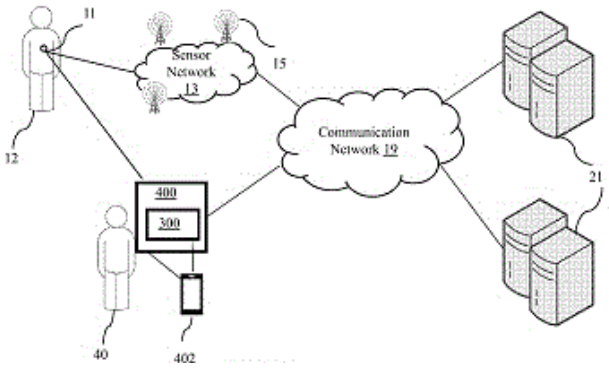


21: 2023/03574. 22: 2023/03/14. 43: 2024/05/23
51: H04W; G01S; G07C; H04B
71: CARNIVAL CORPORATION
72: PADGETT, JOHN, JUNGEN, MICHAEL G, STEELE, DOUGLAS, PRESTENBACK, KYLE, CRIADO, RICHARD J, BALL, VINCE, LEONARDS, ADAM, CURTIS, GLENN, VELLON, MANNY, MENDIUK, PATRICK, LAM, SANDER
33: US 31: 17/067,468 32: 2020-10-09

54: ANTENNA DEVICE FOR A WIRELESS GUEST ENGAGEMENT SYSTEM AND METHODS FOR MAKING AND USING THE SAME

00: -

A guest engagement system and associated methods provide seamless engagement with guests of facilities through the use of wireless sensing technologies. The system makes use of individual guest devices which are carried by guests and used to automatically identify and authenticate the guests throughout the facility. Services can thereby be seamlessly provided to the guests throughout the facility. The services include automatic unlocking of doors, including hotel or state room doors, based on the guests immediate proximity to their assigned rooms door. The services also include automated payment services provided at checkout or vending terminals, and automated log-on to interactive displays and portals, among others, based on secure wireless authentication of the guest devices. Antenna devices and methods for making and using the same are disclosed. An exemplary antenna device can include first and second wireless communication antennas configured to operate using first and second communication standards, respectively.



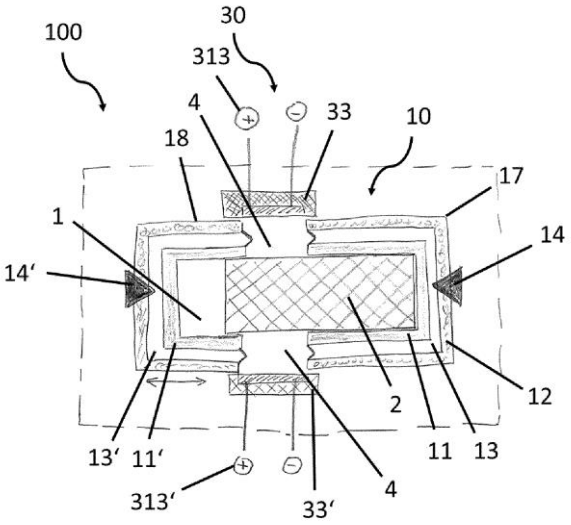
21: 2023/03600. 22: 2023/03/15. 43: 2024/05/23
51: F01K
71: OOXOJ GMBH
72: SCHWERTNER, Heiko

54: DEVICE FOR RECEIVING, STORING AND RELEASING THERMAL ENERGY

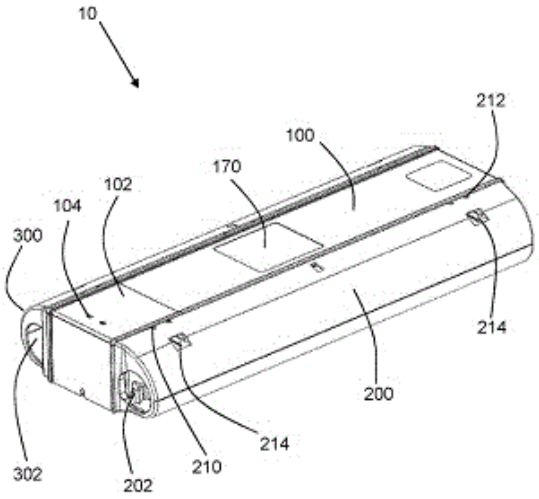
00: -

A device for receiving, storing and releasing thermal energy, the device comprising a thermally insulated enclosure defining a cavity; at least one thermal energy storage material disposed within said cavity; at least one energy source configured for charging said thermal energy storage material with thermal energy; and a thermal energy converter configured for receiving thermal energy from said thermal energy storage material; wherein said thermally insulated enclosure comprises an inner wall, an outer wall and a substantially gas-tight interior void delimited by the inner wall and the outer wall, and wherein the outer wall comprises at least one flow regulator in fluid commu nication with the interior

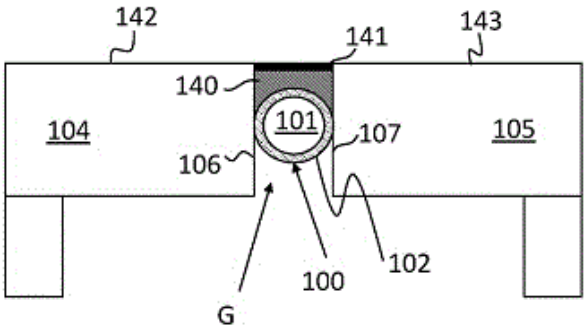
void and configured to supply and re move working fluids to and from the inner void.



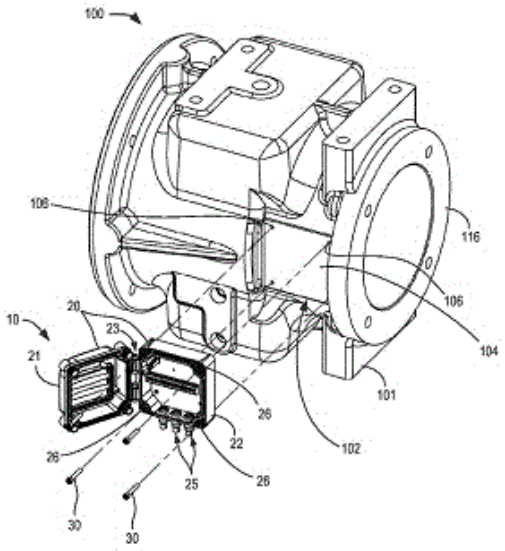
21: 2023/03603. 22: 2023/03/15. 43: 2024/05/23
51: A01M
71: RENTOKIL INITIAL 1927 PLC
72: MCCAIG, JOHN, MILVERTON, OLIVER JOHN LINDSEY, FORD, CHRISTOPHER, REININK, CHRIS BERND
33: GB 31: 2014858.1 32: 2020-09-21
54: PEST TRAPS
00: -
A pest trap comprising a main body. A first chamber connected to the main body has an opening arranged to allow a pest to enter the first chamber, there being a movable closure to the opening of the first chamber. A second chamber connected to the main body also has an opening arranged to allow a pest to enter the second chamber, again there being a movable closure to the opening of the second chamber. The pest trap is arranged, in response to a sensor mechanism detecting the presence of a pest in the first or second chamber, to close the movable closure to the opening of the first or second chamber, and to activate a kill mechanism to release a fluid into the first or second chamber to kill the pest.



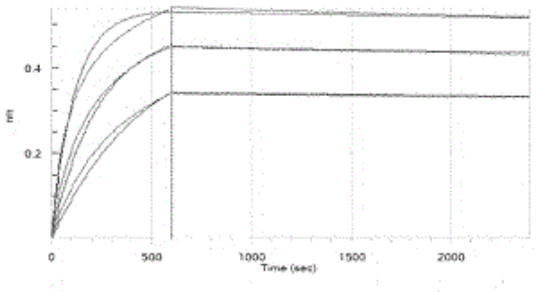
21: 2023/03604. 22: 2023/03/15. 43: 2024/05/23
51: E04B
71: RENTOKIL INITIAL 1927 PLC
72: BROWN, MARK, JONES, CRAIG ALAN
33: GB 31: 2014939.9 32: 2020-09-22
54: EXPANSION JOINT
00: -
An expansion joint for providing a rodent-proof barrier. The expansion joint comprises an elongate core formed of a resiliently deformable material, and a flexible sheath of a barrier material covering at least a part of the elongate portion of the elongate core. The elongate portion of the elongate core is compressible in a direction perpendicular to a line between the first and second ends of the elongate core, the elongate core being arranged to be compressed and inserted into a gap between first and second building structures, and to expand after insertion into the gap so that the expansion joint is held in place within the gap by friction between the surface of the flexible sheath and the surfaces of the first and second building structures.



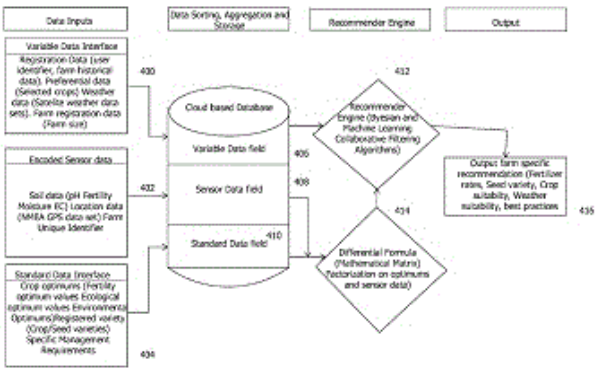
21: 2023/03606. 22: 2023/03/15. 43: 2024/05/23
51: F04D; G01D
71: CORNELL PUMP COMPANY LLC
72: LINDEMAN, ADAM, JOHNSON, ERICK, O'CALLAGHAN, COLIN, ENTERLINE, ANDREW
33: US 31: 63/083,158 32: 2020-09-25
54: MOUNTING POCKET FOR REMOTE EQUIPMENT MONITORING DEVICE
00: -
A mounting pocket is provided for attaching a monitoring device to a pump bearing frame. The mounting pocket includes a recessed area located on an external side of the pump bearing frame, a flat surface within the recessed area; and at least four threaded mounting holes extending into the flat surface. At least a part of the drive bearing portion has a reduced radial wall thickness adjacent the flat surface. The threaded mounting holes are configured to receive threaded bolts from the monitoring device to secure the flat surface against a rear surface of the monitoring device. The flat surface is configured to transfer at least one of vibration or thermal energy from the pump bearing frame through the flat surface to the monitoring device.



21: 2023/03645. 22: 2023/03/16. 43: 2024/05/15
51: A61K; A61P; C07K
71: XBIOTECH INC.
72: SIMARD, JOHN, SHIVASWAMY, SUSHMA, KUZMICHEVA, GALINA
33: CA 31: 3,095,679 32: 2020-10-07
54: TRUE HUMAN ANTIBODY SPECIFIC FOR INTERLEUKIN 1 ALPHA (IL-1ALPHA)
00: -
Fully human monoclonal Abs includes (i) an antigen-binding variable region that exhibits very high binding affinity for IL-1α and (ii) a constant region that is effective at both activating the complement system though C1q binding and binding to several different Fc receptors.



21: 2023/03646. 22: 2023/03/16. 43: 2024/05/23
51: H04Q; A01B; A01C; G06Q
71: BOSIRE, BRIAN , WADONGO, EVANS
72: BOSIRE, BRIAN, WADONGO, EVANS
33: KE 31: KE/P/2020/003709 32: 2020-08-19
54: WIRELESS SOIL TESTER WITH REAL-TIME OUTPUT
00: -
The disclosure relates to agricultural sensors for precision farming. It tests for soil moisture content, Potential of Hydrogen (pH), salinity, nutritional content, farm topology and employs the Internet of Things (IoT) technologies to analyze the data and make a prescription in real time. The disclosure is a combination of a handheld portable device system and a cloud-based analytics Platform. The hand-held device system contains a micro-processor, memory, keypad input interfaced with the output via a display, signal conditioner, data encoder and decoder, local bus allowing for in system communication, communications module with wireless communications capability and power management module. The hand-held device has attached probes for manual insertion into the soil for testing. The cloud-based platform consists of a database, algorithm and Application Programming Interface (API) which receives device data for processing. The derived recommendations are routed to an output gateway and in readable text format.



21: 2023/03647. 22: 2023/03/16. 43: 2024/05/23
51: B60D
71: VBG GROUP AB (PUBL)
72: THORÈN, ANDERS, BOSTRÖM, HENRIK
33: EP 31: 20197469.8 32: 2020-09-22
54: REPLACEABLE SUPPORT MEMBER FOR A TRAILER COUPLING
00: -
A replaceable support member for a trailer coupling, the support member being intended to support an eye of a drawbar when the eye is secured by a vertically movable coupling pin, the support member thereby being susceptible to wear by the eye. At least a front supporting surface of the support member is formed by a elastically deformable portion, which has such a shape that, when the support member is arranged in a coupling, there will be substantially no gap between the front supporting surface and the front of the eye, so that, in use, when the drawbar is pushed upwards, the front of the eye will be pressed downwards, and compress the elastically deformable potion of the support member. By making at least part of the support member of a elastically deformable/compressible material, no gap is required between the front surface of the support member and the eye.

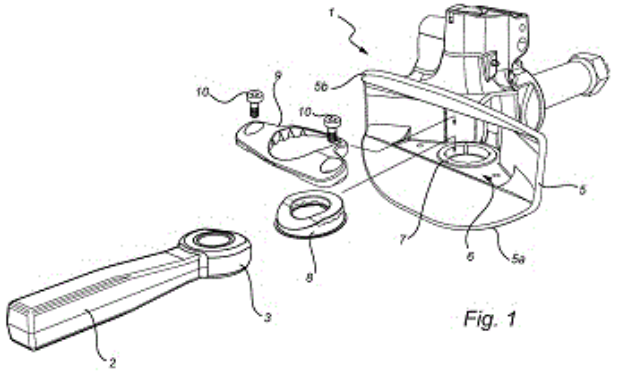
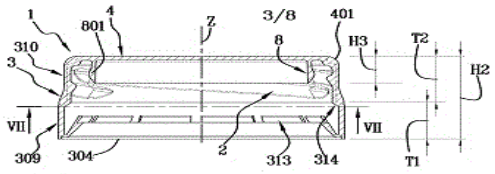


Fig. 1

21: 2023/03648. 22: 2023/03/16. 43: 2024/05/13
51: B65D
71: SACMI COOPERATIVA MECCANICI IMOLA SOCIETÀ COOPERATIVA
72: FALZONI, ALESSANDRO
33: IT 31: 102020000022474 32: 2020-09-23
54: CAP FOR CONTAINER
00: -
The closing cap 1 for a container comprises a lateral wall 3 extending around an axis Z and a transversal wall 4 positioned at one end of the lateral wall. A separating line 5 is provided on the lateral wall to define a retaining ring 301, which comprises a retaining portion 303 which extends as far as a free edge 304 of the retaining ring and is configured to internally engage with a locking ring of a neck of the container in such a way as to remain anchored to the neck, and a closing element 302 which can removably engage with the neck, so as to open or close the container. The cap additionally comprises an incision line 7 also provided on the lateral wall to define, together with the separating line, at least one connecting band 306, 307 for connecting the closing element and the retaining portion to each other. The cap comprises: a coupling structure 2 positioned inside the lateral wall for removably coupling the closing element to the neck of the container, the lateral wall having a first portion 309, without the coupling structure and on which the separating line and the incision line are made, which has a first height T1 measured along an axis parallel to the axis starting from the free edge, and a second portion 310 provided with the coupling structure, which has a second height T2 measured along an axis parallel to the axis starting from the transversal wall. The ratio between the second height and the first height is less than or equal to 2.00 so that the connecting

band can be made in the first portion with suitable dimensions.



21: 2023/03669. 22: 2023/03/17. 43: 2024/05/23
51: C07C; B01D
71: NIPPON SHOKUBAI CO., LTD.
72: MUKAE, MASASHI, TAKEMOTO, YASUTAKA, WADA, HIROKI
33: JP 31: 2020-153286 32: 2020-09-11
33: JP 31: 2021-001398 32: 2021-01-07
54: PURIFICATION DEVICE
00: -
The present invention provides a method for obtaining high-quality products. The purification device according to the present invention is for purifying crystals. The purification device is configured to include: a hydraulic washing column provided with an extract port for a circulating slurry including crystals and a return port for an extracted circulating liquid including a molten liquid of crystals; a pipe for supplying a crystal-containing slurry to the hydraulic washing column; a filter for filtering the crystal-containing slurry in the hydraulic washing column; a pipe that is connected to the filter and that is for extracting a mother liquid; and equipment for melting crystals included in the circulating slurry extracted through the extract port. The distance from a lower end of the filter to an average height of the bottom surface in the hydraulic washing column is 1,000 mm or more.

21: 2023/03670. 22: 2023/03/17. 43: 2024/05/23
51: A61K; A61P
71: DALIAN FUSHENG NATURAL MEDICINE DEVELOPMENT CO., LTD.
72: WANG, SHUO, FU, LI, LIU, YANG, LU, MINGMING, LIN, RONGXIN, FU, WENFEI, FENG, XUE
33: CN 31: 202010861400.7 32: 2020-08-25
54: COMPOSITION OF GINSENOSIDES RG3 AND RG5 AND ANTI-TUMOR PHARMACEUTICAL USE THEREOF
00: -
A composition of ginsenoside Rg3 and ginsenoside Rg5, a preparation method therefor, and applications thereof in preparation of medications capable of improving drug resistance of immune, anti-tumor, and anti-tumor targeted medications, and reducing toxic and side reactions in radiotherapy and chemotherapy or resisting fatigue, and in preparation of food and health care products.

21: 2023/03671. 22: 2023/03/17. 43: 2024/05/23
51: A61K; A61P
71: DALIAN FUSHENG NATURAL MEDICINE DEVELOPMENT CO., LTD.
72: WANG, SHUO, FU, LI, FENG, XUE, LIU, YANG, LIN, RONGXIN, HOU, JIRUI, LU, MINGMING, FU, WENFEI, LU, QI, ZHOU, QINGFENG
33: CN 31: 202010923837.9 32: 2020-09-04
33: CN 31: 202010959266.4 32: 2020-09-14
54: FORSYTHIAE FRUCTUS COMPONENT AND OPTIONAL GINSENG COMPONENT, AND USE THEREOF
00: -
Provided is a composition with antiviral, antipyretic, anti-inflammatory and/or immunity-improving effects, which composition comprises a Forsythiae fructus component and can also comprise a Ginseng component, wherein the Forsythiae fructus component is phillyrin, a phillyrin derivative or a composition of phillyrin and phillygenin. The composition can be used for preparing drugs or food products or health-care products having corresponding functions, and can also be used for preparing anti-cytomegalovirus preparations.

21: 2023/03672. 22: 2023/03/17. 43: 2024/05/23
51: A01N; A01P; A61K
71: UNILEVER GLOBAL IP LIMITED
72: DONG, SIYU, JIANG, HEJIAN, YANG, LIZHE, YIN, QIN
33: EP 31: 20211747.9 32: 2020-12-04
33: CN 31: PCT/CN2020/122205 32: 2020-10-20
54: METHOD FOR MICROBIOME BALANCING
00: -
The present invention relates to use of a composition comprising a quaternary ammonium compound and a licorice extract in microbiome balancing on a surface, wherein balancing means selectively reducing the number of microbes selected from Escherichia Coli and Staphylococcus aureus, while having less effect on or selectively increasing the number of microbes of Staphylococcus Epidermidis; wherein the licorice

extract is glycyrrhiza root extract; wherein the weight ratio of the quaternary ammonium compound to the licorice extract ranges from 1:5000 to 1:100; and wherein the quaternary ammonium compound comprises didecyl dimethyl ammonium chloride, dioctyl dimethyl ammonium chloride, alkyl dimethyl benzyl ammonium chloride, diisobutyl phenoxy ethoxy ethyl dimethyl benzyl ammonium chloride, alkyl dimethyl benzyl ammonium saccharinate, octyl decyl dimethyl ammonium chloride, alkyl dimethyl ethyl benzyl ammonium chloride, methyldodecylbenzyl ammonium chloride, methyldodecylxylene-bis-trimethyl ammonium chloride, methyl benzethonium chloride, cetyl pyrinidinium chloride, cetrimonium bromide or mixtures thereof.

21: 2023/03673. 22: 2023/03/17. 43: 2024/05/23
51: C07D
71: CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, ÉCOLE NATIONALE SUPÉRIEURE DE CHIMIE, INSTITUT NATIONAL DES SCIENCES APPLIQUÉES DE RENNES, UNIVERSITÉ DE RENNES
72: SOULÉ, JEAN-FRANÇOIS
33: EP 31: 20306217.9 32: 2020-10-15
54: ACRIDINIUM-BASED PHOTOREDOX CATALYSTS, SYNTHESIS AND USE THEREOF IN OXIDATIVE CLEAVAGE OF C-O BONDS
00: -
The present invention belongs to the field of catalytic chemistry, and more specifically to catalysed oxidation of lignin. It also relates to synthesis of catalyst compounds. The present invention relates to new acridinium-based photoredox catalyst compounds and their use thereof in a chemical reaction, preferably in depolymerisation of lignin models and ultimately lignin. The invention also relates to the method of synthesis of the new acridinium-based photoredox catalyst compounds according to the invention.

21: 2023/03674. 22: 2023/03/17. 43: 2024/05/23
51: H04W; H04B
71: ZTE CORPORATION
72: LI, YONG, WU, HAO, JIANG, CHUANGXIN, LU, ZHAOHUA
54: CONFIGURATION OF CHANNEL STATE INFORMATION REFERENCE SIGNALS FOR WIRELESS COMMUNICATION SYSTEMS
00: -
Methods, systems, and devices for configuring channel state information (CSI) reference signals (RS) in mobile communication technology are described. An example method for wireless communication includes transmitting, by a network node to a wireless device, a configuration of at least one channel state information (CSI) reference signal (RS) and a configuration of a CSI report, transmitting, based on the configuration over one or more CSI-RS resources, the at least one CSI-RS, and receiving, from the wireless device, the CSI report based on the configuration of the CSI report.

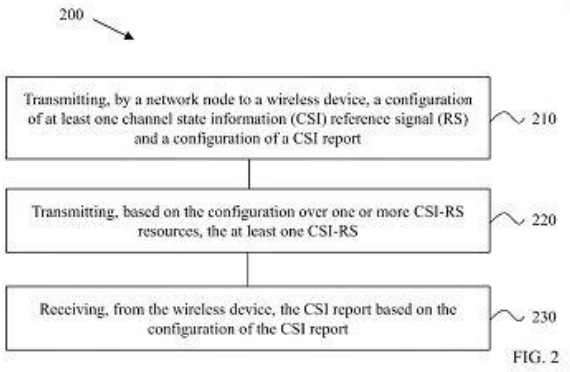
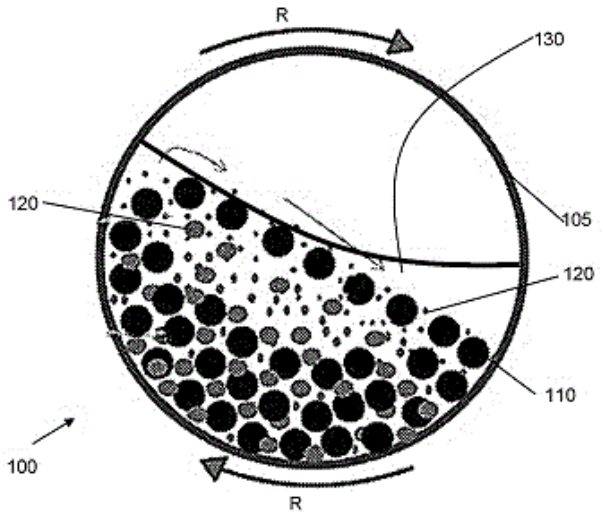
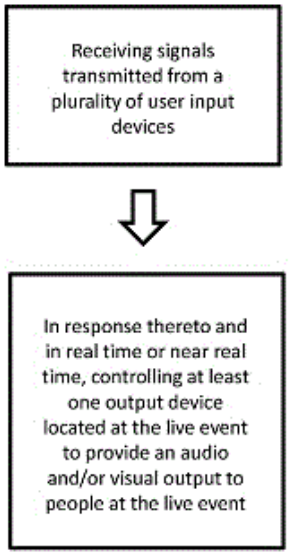


FIG. 2

21: 2023/03675. 22: 2023/03/17. 43: 2024/05/23
51: C01B; B82Y; B02C
71: DEAKIN UNIVERSITY
72: LI, LUHUA
33: AU 31: 2020903381 32: 2020-09-21
54: PRODUCTION OF BORON NITRIDE NANOSHEETS
00: -
A method of producing boron nitride nanosheets comprising: milling a hexagonal boron nitride crystal material in a ball mill to exfoliate substantially two-dimensional nanosheets from the boron nitride crystal material, wherein ball milling is undertaken within a viscous liquid ball milling medium having a viscosity of 100 to 100,000 mPa·s.



21: 2023/03710. 22: 2023/03/20. 43: 2024/05/23
51: G06K; H04H; H04N
71: MURUGAN, CHANDRASAGARAN
72: MURUGAN, CHANDRASAGARAN
33: US 31: 63/071,907 32: 2020-08-28
33: US 31: 63/027,481 32: 2020-05-20
54: REMOTE ENGAGEMENT SYSTEM
00: -
A remote engagement system for a live event occurring at a venue includes an output device located at the venue or remotely from the venue for providing audio and/or visual output to at least one recipient. A controller receives signals, such signals being representative of physical reactions of remote viewers and being transmitted from a plurality of user input devices located remotely from each other and from the venue and controls the output device located at the venue or remotely from the venue to provide an audio and/or visual output to people at the venue or located remotely from the venue.



21: 2023/03774. 22: 2023/03/23. 43: 2024/05/23
51: A61K; A61P
71: SULFATEQ B.V.
72: HENNING, ROBERT HENK, VAN DER GRAAF, ADRIANUS CORNELIS, KRENNING, GUIDO, WIGGENHAUSER, LUCAS MORITZ
33: NL 31: 2026511 32: 2020-09-21
54: CHROMANOL COMPOUNDS FOR TREATMENT OF HEART FAILURE
00: -
The invention relates to certain chromanol, quinone or hydroquinone compounds and derivatives thereof for treatment of heart failure with reduced ejection fraction (HFrEF). Specifically, the present invention relates to chromanol compounds chosen from S-(6-hydroxy-2,5,7,8-tetramethylchroman-2yl)(piperazin-1-yl)methanone and S-(6-hydroxy-2,5,7,8-tetramethylchroman-2-yl)(4-(2-hydroxyethyl)piperazin-1-yl)methanone, and pharmaceutically acceptable salts thereof.

21: 2023/03829. 22: 2023/03/24. 43: 2024/05/23
51: G05D; H04W; G08G; G06Q
71: TECHNOLOGICAL RESOURCES PTY. LIMITED
72: GUN, PHILIP, HILL, ANDREW JOHN, VUJANIC, ROBIN, SCHEDING, STEVEN JOHN
33: AU 31: 2020903061 32: 2020-08-27
54: METHOD AND APPARATUS FOR COORDINATING MULTIPLE COOPERATIVE VEHICLE TRAJECTORIES ON SHARED ROAD NETWORKS
00: -

A vehicle coordination system is provided for coordinating the trajectories of vehicles on a road network. The vehicle coordination system comprises a plurality of vehicles each having respective vehicle position tracking assemblies that are in communication with respective vehicle communication systems for transmitting vehicle state messages including positions of the vehicles. A task assignment allocator is provided that is arranged to generate task assignments for each of the plurality of vehicles, including destinations in the road network for the vehicles. A vehicle coordination assembly is in communication with the vehicle communication systems via a data network for receiving the vehicle state messages. The vehicle coordination assembly is configured to determine respective paths for each vehicle to arrive at their respective destinations and determine trajectory control commands for each vehicle to traverse their respective paths whilst optimizing a predetermined objective and avoiding active interactions of two or more of the vehicles occurring in any shared areas of the paths. The vehicle coordination assembly is configured to transmit the trajectory control commands to each vehicle. The predetermined objective may be an aggregate traversal time for the vehicles.

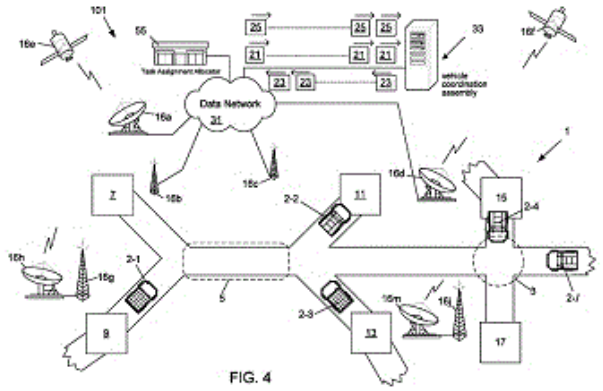


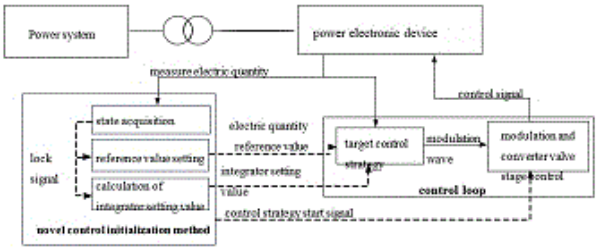
FIG. 4

21: 2023/03830. 22: 2023/03/24. 43: 2024/05/23
51: A23L
71: ARCHER DANIELS MIDLAND COMPANY
72: ZHAO, JIELU, HORN, GREGORY
33: US 31: 63/070,489 32: 2020-08-26
54: METHODS OF PRODUCING DYES WITH VARIOUS HUE FROM HUITO FRUIT
00: -

A method of forming a colorant having a desired hue comprises mixing a component of a Huito fruit with an amino acid, thus forming a reaction mixture wherein the component of Huito fruit reacts with the amino acid and produces a blue color, and adjusting the hue of the blue color by adjusting the amount of oxygen present during reaction of the component of Huito fruit and the amino acid. The method may comprise adjusting a temperature of the mixing and/or other processing parameters.

21: 2023/03831. 22: 2023/03/24. 43: 2024/05/23
51: H02J; H02M
71: LIYANG RESEARCH INSTITUTE OF SOUTHEAST UNIVERSITY, SOUTHEAST UNIVERSITY
72: LI, ZHOU, ZHAN, RUOPEI
33: CN 31: 202010872902.X 32: 2020-08-26
54: POWER ELECTRONIC DEVICE CONTROL INITIALIZATION METHOD
00: -

A power electronic device control initialization method, comprising: (1) before a target control strategy starts up, measuring the electric quantity from an actual system to carry out state acquisition, collecting real-time electric quantity data, and obtaining setting value information required by a control loop; (2) according to the setting value information required by the control loop in step (1), setting an initial value of an integrator in the control loop, and locking the initial value of the integrator before starting up control; and (3) setting a target control strategy reference value as an electric quantity measurement value obtained in step (1); and a control system sends a control start signal to a modulation and valve group control to start the control strategy. By means of setting the initial value of the integrator in the control system and controlling a target reference value when the control strategy is initialized, the method can reduce circuit impact, improve the rapidity and stability with which the power electronic device controls during start-up, and provide more application scenarios for the power electronic device. The method can be widely applied in the field of power electronics.

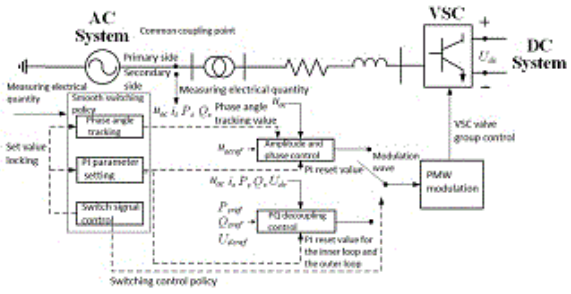


21: 2023/03832. 22: 2023/03/24. 43: 2024/05/23
51: H02J
71: LIYANG RESEARCH INSTITUTE OF SOUTHEAST UNIVERSITY, SOUTHEAST UNIVERSITY
72: LI, ZHOU, LI, YAZHOU
33: CN 31: 202010872898.7 32: 2020-08-26

54: SMOOTH SWITCHING METHOD FOR CONTROL POLICY OF VOLTAGE-SOURCE-TYPE CONVERTER

00: -

Disclosed is a smooth switching method for a control policy of a voltage-source-type converter. The method comprises: collecting an actual electrical quantity value; confirming the current control policy after a control policy switching signal is received; and a control system performing initial value setting on a proportional integral regulator in a control loop, locking a set value, and modifying a control goal and switching the control policy. By means of the present invention, when a control goal of a voltage-source-converter is changed, a control policy of the voltage-source-type converter can be switched in a rapid and smooth manner, thereby reducing the transient impact, and improving the stability of a power system. By means of the present invention, overcurrent and overvoltage can be prevented in a transient state, a control goal of a converter station can be achieved in a steady state, and rapid regulation can be ensured.

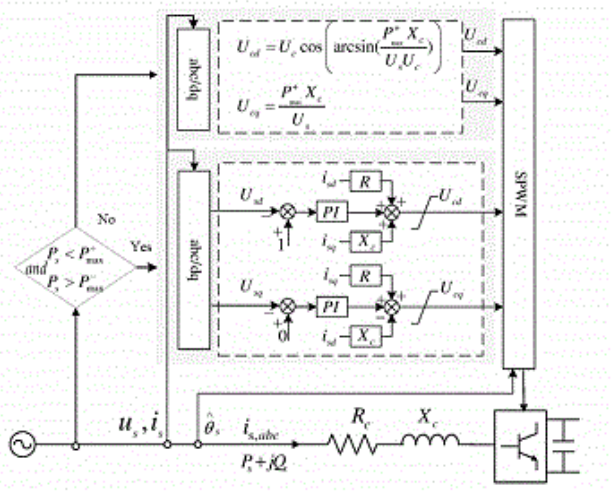


21: 2023/03833. 22: 2023/03/24. 43: 2024/05/23
51: H02J
71: LIYANG RESEARCH INSTITUTE OF SOUTHEAST UNIVERSITY, SOUTHEAST UNIVERSITY
72: LI, ZHOU, WEI, ZIANG
33: CN 31: 202010873944.5 32: 2020-08-26

54: POWER LIMITING METHOD APPLICABLE TO VOLTAGE SOURCE CONVERTER

00: -

The present invention provides a power limiting method applicable to a voltage source converter. According to a transmission power of a converter station, if the transmission power exceeds the capacity of the converter station, the converter station is switched from an original control policy to a power limiting control mode, so as to limit the transmission power of the converter station, thereby ensuring that the system power is not out-of-limit. If the transmission power of the converter station returns to normal, the converter station is switched back to the original control policy. In the method of the present invention, a phase angle difference between a Pcc point and a voltage at an alternating current outlet side of the converter station is calculated according to an upper limit of the transmission capacity of the converter station, so that the phase angle of the voltage at the alternating current outlet side of the converter station is adjusted, ensuring synchronous changing of the phase angles of the two, thereby achieving the effect of power limitation. The present invention can effectively constrain power, and solve the problem that a voltage source converter cannot constrain power when stabilizing an alternating current voltage by using policies such as amplitude-phase control, amplitude-frequency control, active and reactive coupling control or constant alternating-current voltage control; in addition, the capacity of the converter can be utilized to the maximum, thereby improving the safety and stability of a direct-current system.



21: 2023/03877. 22: 2023/03/27. 43: 2024/05/23
51: E21B
71: EPIROC ROCK DRILLS AKTIEBOLAG
72: MÖRTZELL, GUSTAV, OLSSON, MAGNUS
33: SE 31: 2051380-0 32: 2020-11-27
54: ARRANGEMENT OF CONTROLLING DRILLING PARAMETERS DURING EXTRACTION OF A DRILL STRING
00: -
The invention relates to an arrangement (2) for controlling a rock drilling machine (3) during an extraction of a drill string (6) from a drilled bore, the rock drilling machine (3) being movably arranged on a feeder (7), the arrangement comprising:- an actuator (10) arranged to move the rock drilling machine (3) in a direction opposed to a drilling direction along the feeder (7),- a rotation motor (9) arranged to rotate the drill string (6), and- an actuator controller (4) arranged to control the actuator (10) during the extraction of the drill string (6) from a drilled bore, the actuator controller (4) being arranged to control the actuator (10) according to a first or a second mode in dependence of an operational parameter, such as a torque (Tq) generated by the rotation motor (9) to rotate the drill string, wherein the actuator controller (4), in the first mode, is arranged to control a moving speed (v) at which the actuator (10) moves the rock drilling machine (3), and wherein the actuator controller (4), in the second mode, is arranged to control a force (F) provided by the actuator (10) to move the rock drilling machine (3). The invention also relates to a drill rig (1).

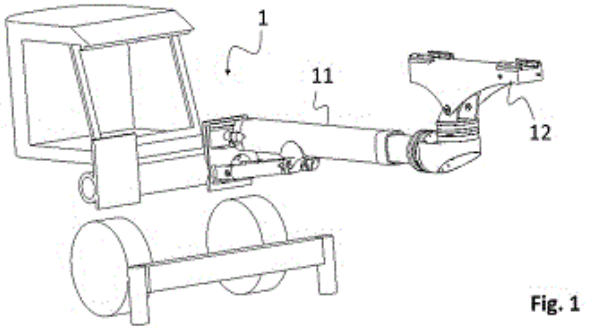


Fig. 1

21: 2023/03878. 22: 2023/03/27. 43: 2024/05/23
51: A61K; A61Q; C11D
71: UNILEVER GLOBAL IP LIMITED
72: CLARKE, MICHAEL GERARD, SPENCER, ELIZABETH JOY, FARRELL, TERENCE JAMES
33: EP 31: 20206522.3 32: 2020-11-09
54: CLEANSING COMPOSITIONS COMPRISING A FATTY ACID AND SOAP MIXTURE AND METHOD FOR MAKING A CLEANSING BAR COMPRISING SAID MIXTURE
00: -
A cleansing composition includes 25% to 35% by weight of a surfactant, 1.5% to 5% by weight of a co-surfactant, 5% to 9% by weight of water; and 50% to 60% by weight of a fatty acid and soap mixture, wherein the fatty acid to soap ratio is 2.3:1 to 1.8:1. A method of making cleansing bars includes heating the cleansing composition to a temperature sufficient to provide a molten composition, cooling the molten composition to form flakes and/or chips, refining the flakes and/or chips to form billets, and stamping and/or cutting the billets to form the cleansing bars. Another method of making cleansing bars includes heating the cleansing composition to a temperature sufficient to provide a molten composition, pouring the molten composition into a mold, cooling the molten composition until the cleansing bars are formed, and removing the cleansing bars from the mold.

21: 2023/03904. 22: 2023/03/28. 43: 2024/05/22
51: C02F; B01J; C22B; C01C
71: COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION
72: BREUER, PAUL, DAI, XIANWEN
33: AU 31: 2020903887 32: 2020-10-27
54: PROCESS FOR REMOVING CYANIDE FROM A CYANIDE-BEARING AQUEOUS FLUID

00: -
The invention provides a process for removing cyanide from a cyanide-bearing aqueous fluid, the process comprising: (i) adding a solid composition comprising a first mixed-metal cyanide complex comprising copper and iron to a cyanide-bearing aqueous fluid comprising free cyanide and metal-complexed cyanide, wherein at least a portion of the first mixed-metal cyanide complex dissolves, with complexation of the copper by the free cyanide, to produce an aqueous solution comprising cyanometallates, the cyanometallates comprising copper cyanide and iron cyanide complexes derived from the first mixed-metal cyanide complex; (ii) contacting the aqueous solution with an anion-exchange absorbent to absorb the cyanometallates, thereby producing a cyanide-lean aqueous fluid; (iii) extracting the anion-exchange absorbent comprising the absorbed cyanometallates with at least one non-acidic aqueous extractant to produce an aqueous extract comprising the copper cyanide and iron cyanide complexes; and (iv) acidifying the aqueous extract to produce a precipitate comprising a second mixed-metal cyanide complex comprising copper and iron.

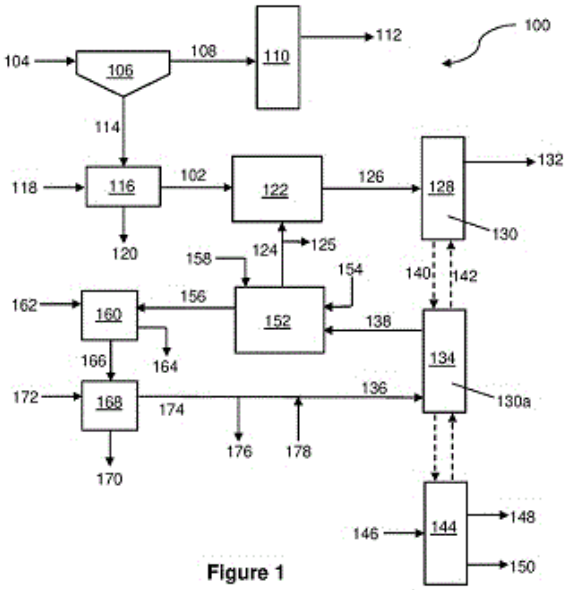
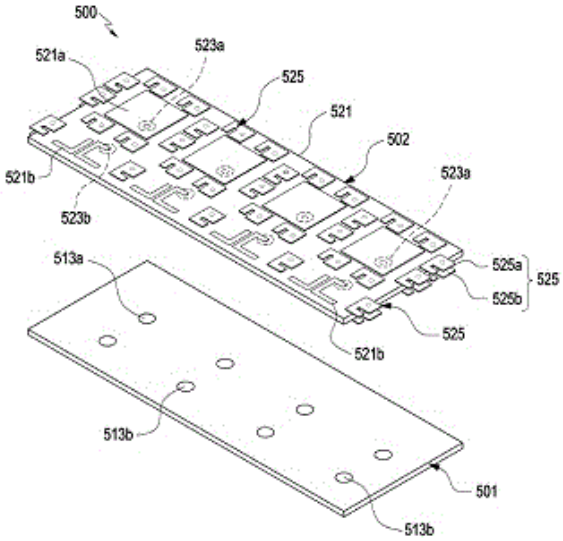


Figure 1

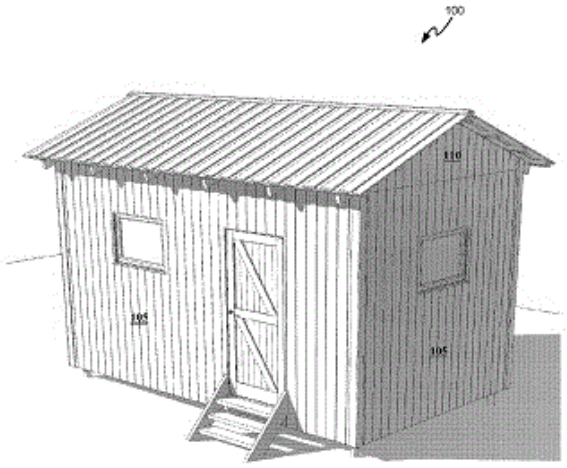
21: 2023/03905. 22: 2023/03/28. 43: 2024/05/22
51: B65D
71: ALPLA WERKE ALWIN LEHNER GMBH & CO. KG
72: ZMÖLNIG, CHRISTIAN, BOHLE, THOMAS
33: CH 31: 01192/20 32: 2020-09-21
54: PLASTIC CONTAINER AND METHOD FOR DETERMINING A PROPERTY OF A PLASTIC CONTAINER
00: -
The invention relates to a plastic container (100) having a container wall (102) with an outside (10) and an inside. A surface (11) of the outside (10) has a structure at least in a first region (30). Said structure is formed by elevations (31) and/or recesses (32). Each elevation (31) or recess (32) has one or more boundary faces (33). Each transition from a first boundary face (33) to a second boundary face (33) or to the surface (11) of the container wall (102) has a radius, which is less than or equal to 5 pm. The invention also relates to a method for determining a property of a plastic container and verifying the authenticity.

21: 2023/03959. 22: 2023/03/29. 43: 2024/05/22
51: H01Q
71: SAMSUNG ELECTRONICS CO., LTD.
72: LEE, JUNESEOK, HEO, JINSU, KIM, YOUNGSUB, PARK, JUNGHO, BAEK, KWANGHYUN, LEE, YOUNGJU, JEONG, KYOUNGHO, HA, DOHYUK
33: KR 31: 10-2020-0129159 32: 2020-10-07
33: KR 31: 10-2021-0056285 32: 2021-04-30
54: ANTENNA DEVICE AND ELECTRONIC DEVICE COMPRISING SAME
00: -
According to an embodiment of the present disclosure, an antenna device and/or an electronic device comprising same may comprise: a first antenna array including an array of multiple first

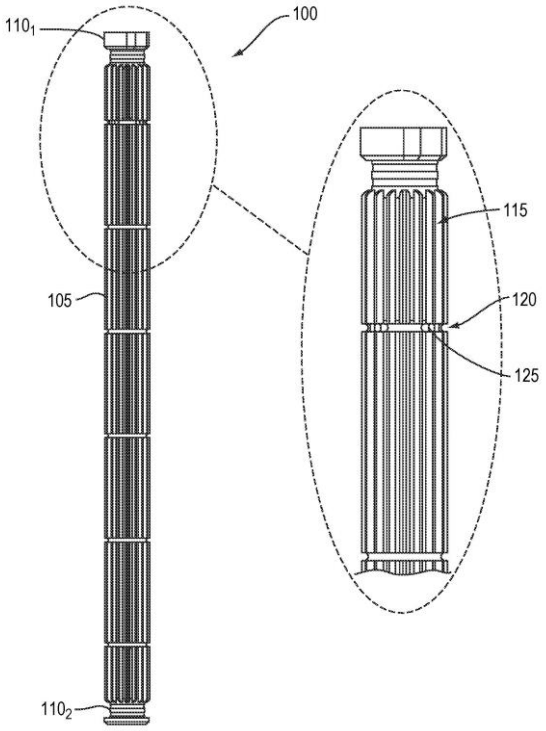
radiation patches; a communication circuit configured to transmit and/or receive a wireless signal by using at least one of the first radiation patches; and at least one first isolator including a conductor and disposed at an area between two adjacent first radiation patches among the first radiation patches, wherein the first isolator comprises a first part, a second part disposed in parallel with the first part, and a third part for electrically connecting the first part and the second part, and the first part and the second part are configured to generate current flows having a phase difference of 180 degrees with respect to each other.



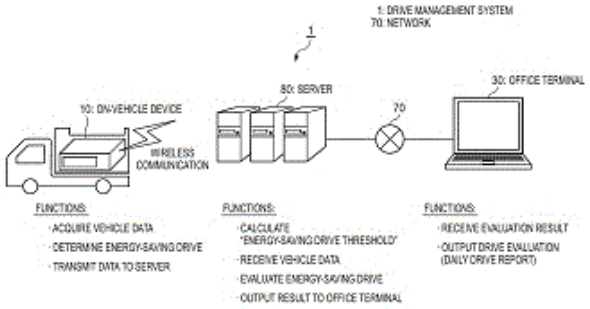
21: 2023/03961. 22: 2023/03/29. 43: 2024/05/22
51: E04B; E04C
71: FUTURE EARTH, INC.
72: ROSAMOND, JASON
33: US 31: 63/076,301 32: 2020-09-09
54: SYSTEM AND METHOD FOR LOW-COST STRUCTURE FABRICATION AND DEPLOYMENT
00: -
There is provided a structure that is a prefabricated (or systems-built) building space including a floor assembly, modular wall assemblies, and a roof assembly. The structure may at any time be connected to one or more other structures or prefabricated room extensions to form integrated building spaces. The structure is attached in a semi-permanent connection to a helical pier foundation assembly. The structure can include a locking mechanism adapted to be removably fastened to the floor assembly and the foundation assembly.



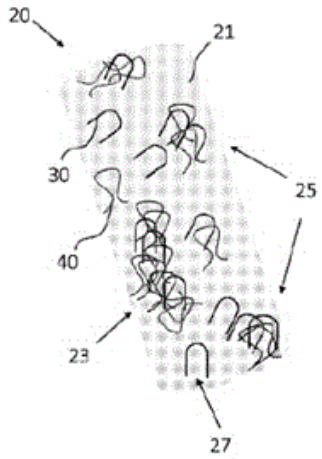
21: 2023/04004. 22: 2023/03/30. 43: 2024/05/22
51: C12M
71: SUNFLOWER THERAPEUTICS, PBC
72: BANCHIERI, Andrew, LIU, Flora, GRAHAM, Marc Miller
33: US 31: 63/075,443 32: 2020-09-08
54: CELL RETENTION DEVICE
00: -
A cell retention device includes a structured support with a plurality of circumferentially distributed ribs to retain the active filtering surface of a flexible, porous membrane filter medium. The filter medium surrounds the support in contact with the peaks of the ribs, thereby forming axial voids between the rib peaks. This arrangement imparts sufficient structural support over small regions of the filter medium to facilitate its use in a circular (or other rounded) configuration while providing sufficient channel volume to support high throughput of fluid sparse of cells.



21: 2023/04014. 22: 2023/03/30. 43: 2024/05/23
51: G06Q
71: YAZAKI CORPORATION
72: KOGO, KOSUKE, MANABE, YOHEI, NAKAO, TERUHITO, TANAKA, JUNJI
33: JP 31: 2020-187261 32: 2020-11-10
54: OPERATION MANAGEMENT SERVICE SYSTEM
00: -
A drive management service system (1) includes an office terminal (30), a server (80), and a communication terminal (90) or an on-vehicle device (10). The office terminal (30) manages an operation of a vehicle and is operated by a manager of a transportation business company. The server (80) is capable of communicating with the office terminal (30), provides a service related to the operation of the vehicle, and is managed by a service provider. The communication terminal (90) of the on-vehicle device (10) is capable of communicating with at least the office terminal (30) and is in association with a driver of the vehicle. The server (80) calculates a difference between a fuel amount consumed in a current operation of the vehicle and a standard fuel amount, and distributes a reduced cost based on the difference to at least two of the transportation business company, the driver, and the service provider according to a predetermined distribution rule.



21: 2023/04017. 22: 2023/03/30. 43: 2024/05/23
51: A01M
71: RENTOKIL INITIAL 1927 PLC
72: WINGETT, GARY, BROWN, MARK, SHAND, ROBERT
33: GB 31: 2018101.2 32: 2020-11-18
54: A RODENT-PROOF BARRIER MATERIAL AND A METHOD OF MANUFACTURING A RODENT-PROOF BARRIER MATERIAL
00: -
A rodent-proof barrier material comprising a settable carrier medium and a plurality of filaments dispersed within the settable carrier medium. Each filament of the plurality of filaments comprises a central curved portion and first and second end portions.



21: 2023/04050. 22: 2023/03/31. 43: 2024/05/22
51: C03B
71: GLASSTECH, INC.
72: NITSCHKE, DAVID B, NITSCHKE, DEAN M, REINHART, CRISTIN J, SNYDER, STEPHEN D, SCHNABEL, JR. JAMES P

33: US 31: 17/011,520 32: 2020-09-03
54: ARTICULATED MOLD ARRANGEMENT FOR A GLASS PROCESSING SYSTEM
00: -
An articulated lower mold arrangement for use with an upper mold includes a mold portion configured to bend a heated glass sheet. The mold portion has a first end, a sharp bend area proximate the first end for bending an end portion of the glass sheet, and a second end opposite the first end and spaced away from the sharp bend area. The arrangement may further include a first guide member connected to the mold portion at a first location proximate the first end, and a second guide member connected to the mold portion at a second location proximate the second end and spaced away from the sharp bend area. The mold portion and the guide members are cooperable to allow the first end of the mold portion to move from a lowered position to a raised position in order to move the end portion of the glass sheet upwardly.

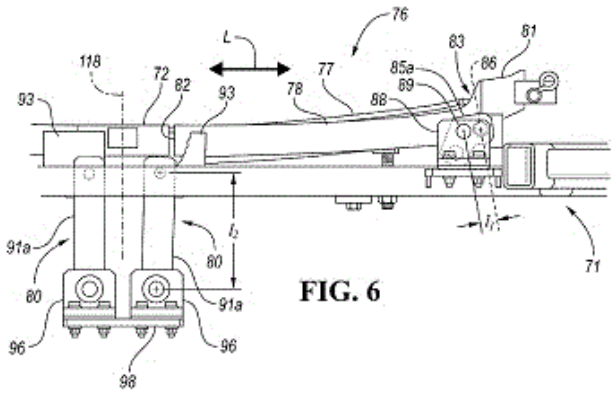
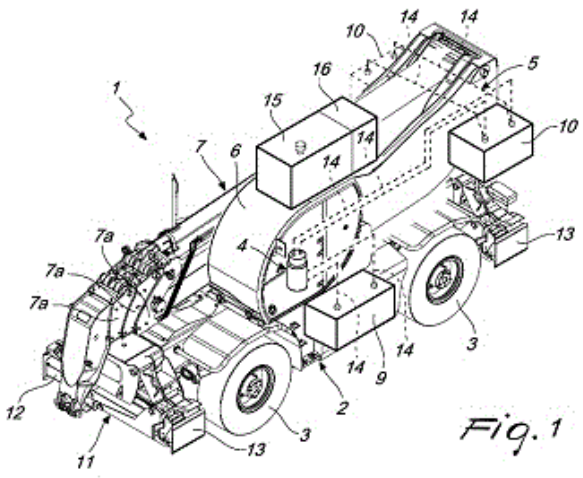


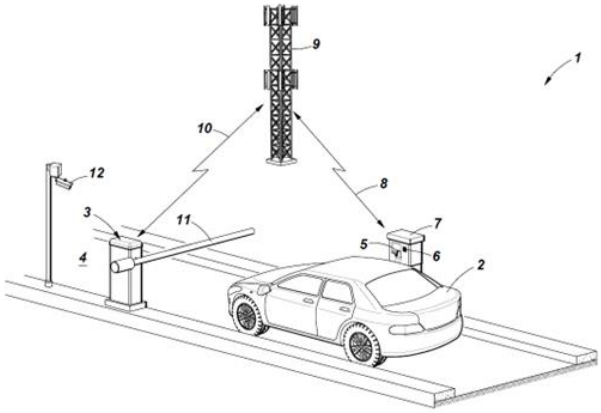
FIG. 6

21: 2023/04051. 22: 2023/03/31. 43: 2024/05/22
51: C03C; C03B; G21C; G21D; G21F
71: NIPPON FIBER CORPORATION
72: FUKAZAWA, HIROSHI
33: JP 31: 2020-169452 32: 2020-10-06
54: RADIATION RESISTANT INORGANIC OXIDE FLAKES
00: -
[Object] To provide inorganic oxide flakes having excellent resistance to radiation damage. [Solving Means] Inorganic oxide flakes mainly composed of SiO_2,Al_2O_3,CaO,and $Fe_2O_3$are presented. The mass percentages of the components in terms of oxide in the flakes are set as follows: i) the sum of $SiO_2$and $Al_2O_3$is from 40% by mass to 70% by mass; ii) the ratio Al_2O_3/(SiO_2+ Al_2O_3) (mass ratio) is in the range of 0.15 to 0.40; iii) the content of $Fe_2O_3$is from 16% by mass to 25% by mass; and iv) the content of CaO is from 5% by mass to 30% by mass. The inorganic oxide flakes have enhanced resistance to radiation damage.

21: 2023/04054. 22: 2023/03/31. 43: 2024/05/23
51: B60L; B66F
71: MAGNI REAL ESTATE S.R.L.
72: MAGNI, RICCARDO
33: IT 31: 102020000023365 32: 2020-10-05
54: ROTARY TELESCOPIC BOOM LIFT
00: -
A rotary telescopic boom lift, which comprises at least one self- propelled machine (2), which can move over ground and supports in an upper region a rotating assembly, associated with the machine (2) by way of a rotary coupling element (4). The assembly comprises at least one turret (5) and an operating boom (7), which is articulated to the turret (5) with a first end thereof. The boom lift comprises means for supplying electrical power, at least for the movement of the machine (2), the rotation of the assembly and the actuation of the boom (7). Such means comprise at least one first battery (9) of high-energy storage units, such as drive batteries, which is integrally supported by the machine (2) and is arranged substantially below the element (4), and at least one second battery (10) of high-energy storage units, such as drive batteries, which is supported by the assembly and can rotate with respect to the machine (2) integrally with this assembly. Such second battery (10) is arranged substantially above the element (4).



21: 2023/04203. 22: 2023/04/06. 43: 2024/07/15
51: G07B; G06Q
71: BEYNON, Devon Gregory Powell
72: BEYNON, Devon Gregory Powell
33: ZA 31: 2022/03939 32: 2022-04-07
54: METHOD OF ACCESS CONTROL
00: -
This invention relates to a method of access control, more specifically a method of access control. The method includes placing a machine-readable optical label or QR code at an operations device which would usually be used to gain access to the access-controlled area. The operations device can be a machine such as a ticket dispenser or ticket receiver. The QR code contains data relating to access control point and the operations device. Information derived from the QR code as well as information relating to an account or user is received from a mobile device which is used to read the QR code. The information is validated at a remote point against a database before the method is used to transmit an access signal via GSM or 2G network to the operations device after the information is verified to allow access through the access control point.



21: 2023/04334. 22: 2023/04/12. 43: 2024/05/23
51: A61K A61P
71: CHENGDU JINRUI FOUNDATION BIOTECH CO., LTD, BEIJING TIANTAN HOSPITAL, CAPITAL MEDICAL UNIVERSITY
72: LI, Wenbin, LI, Shenglan, QIU, Neng, YE, Haoyu
33: CN 31: 202011033093.X 32: 2020-09-27
54: MEDICAL USE OF HONOKIOL
00: -
The use of honokiol in inhibiting medulloblastoma, wherein experiments specifically show that honokiol can inhibit the cell proliferation of medulloblastoma, induce cell cycle arrest of medulloblastoma, and induce apoptosis of medulloblastoma; and the use of honokiol for promoting hair growth, wherein experiments specifically show that honokiol can promote hair growth and has no toxicity and side effects for the liver and the kidneys; as well as the use of honokiol for promoting the blackening of gray hair, wherein experiments specifically show that honokiol can promote the blackening of gray hair and has no toxicity and side effects for the liver and the kidneys.

21: 2023/04354. 22: 2023/04/12. 43: 2024/07/04
51: B01D; E02F
71: Alexei Egmar KRASS DE KRASSNOKUTSKI
72: Alexei Egmar KRASS DE KRASSNOKUTSKI
33: ZA 31: 2020/05406 32: 2020-08-31
54: WATER DIGGER
00: -
A water digger includes three equi-spaced augers meeting near a lowest point. There are three buoys serving as floats for the water digger.

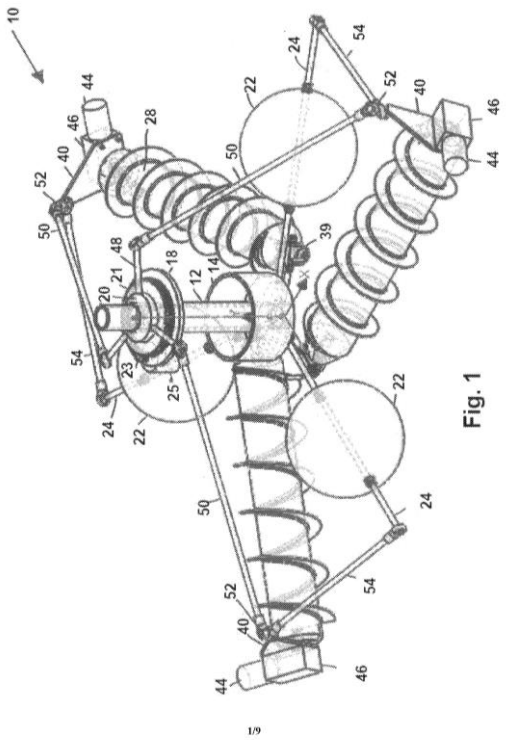
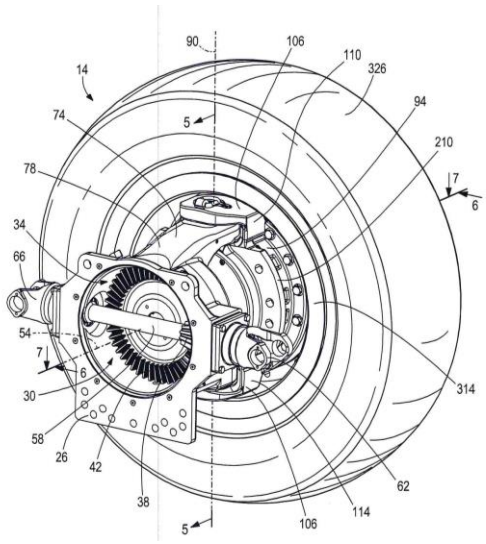
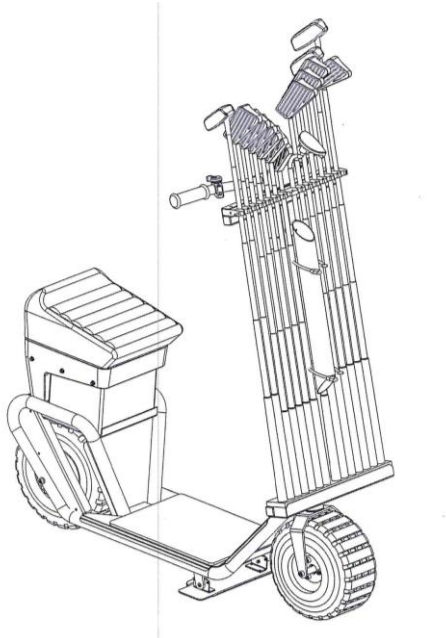


Fig. 1

21: 2023/04490. 22: 2023/04/18. 43: 2024/07/15
51: B60B; B60K
71: JOY GLOBAL UNDERGROUND MINING LLC
72: HAN, Jianjun, WECKERLY, Nathan
33: US 31: 17/827,103 32: 2022-05-27
54: COUPLING BETWEEN A STEERABLE WHEEL AND A HOUSING IN A VEHICLE WHEEL UNIT
00: -
A wheel unit for a vehicle includes a main housing configured to be coupled to a chassis of the vehicle, the main housing including first and second control arms. A transmission housing includes a body having first and second protrusions extending from the body, the first protrusion partially defining a first cavity that receives a portion of the first control arm, and the second protrusion partially defining a second cavity that receives a portion of the second control arm. A first pin is coupled between the first protrusion of the transmission housing and the first control arm of the main housing. A second pin is coupled between the second protrusion of the transmission housing and the second control arm of the main housing, the first and second pins defining a steering axis. The transmission housing is pivotably coupled to the main housing about the steering axis.



21: 2023/04526. 22: 2023/04/19. 43: 2024/07/15
51: A63B; B60R
71: PARATRAK (PTY) LTD
72: WOOD, Richard Roy, WOOD, Roy Constant
33: ZA 31: 2022/00848 32: 2022-01-19
33: ZA 31: 2022/00849 32: 2022-01-19
54: GOLF VEHICLE
00: -
A golf vehicle in the form of an electrically driven scooter which has a golf club rack attached to a steering mechanism.



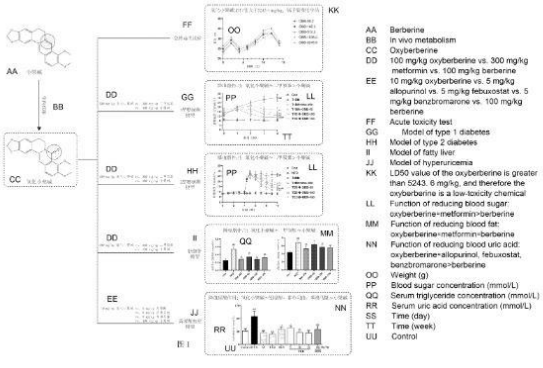
21: 2023/04531. 22: 2023/04/19. 43: 2024/07/15
51: A61K; A61P

71: GUANGZHOU UNIVERSITY OF CHINESE MEDICINE (GUANGZHOU INSTITUTE OF CHINESE MEDICINE)
72: SU, Ziren, CHEN, Jiannan, LI, Yucui, XIE, Jianhui, LIU, Yuhong, XIE, Youliang, HUANG, Xiaoqi
33: CN 31: 202011006419.X 32: 2020-09-23

54: APPLICATION OF OXYBERBERINE IN PREPARATION OF DRUGS FOR METABOLIC DISEASES, AND PHARMACEUTICAL COMPOSITION COMPRISING OXYBERBERINE

00: -

The present invention relates to the technical field of biomedicines. Disclosed are an application of oxyberberine in preparation of drugs for metabolic diseases, and a pharmaceutical composition comprising the oxyberberine. The oxyberberine can be used for preparing the drugs for the metabolic diseases, and can also be used for preparing the pharmaceutical composition having the functions of reducing blood sugar, reducing blood fat, and reducing uric acid. The oxyberberine has good functions of reducing blood sugar, reducing blood fat, and reducing uric acid in models of diabetes, fatty liver and hyperuricemia, has certain indexes with function intensity superior to or close to that of positive drugs and berberine, has small toxic and side effects, and can improve pathological injuries of related organs. The oxyberberine is expected to be developed into a class of innovative drugs having the functions of reducing blood sugar, reducing blood fat, and reducing uric acid, and is used for clinically treating the metabolic diseases such as obesity, diabetes, fatty liver, and gout.

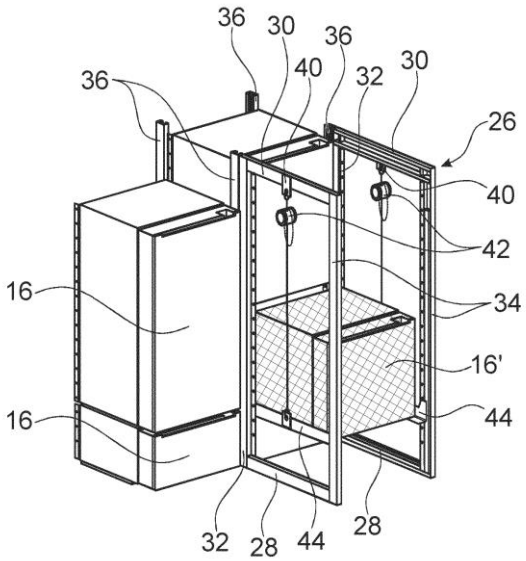


21: 2023/04533. 22: 2023/04/19. 43: 2024/05/15
51: F24D F24H
71: ENVOLA GMBH
72: SCHECHNER, Alexander, IHLE, Gerhard
33: DE 31: 10 2020 125 017.7 32: 2020-09-25

54: INSTALLATION DEVICE HAVING POWER-ENGINEERING OR BUILDING-SERVICES MODULES, AND METHOD FOR REMOVING A MODULE FROM AN INSTALLATION DEVICE OF THIS TYPE

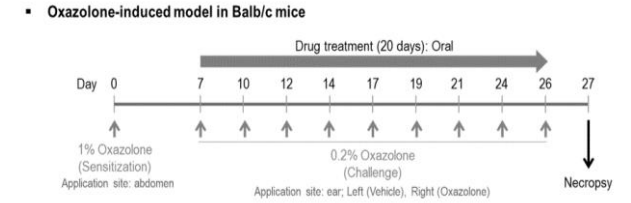
00: -

An installation device having power-engineering or building-services modules (16) and a method therefor are described. The installation device (10) comprises at least two side walls (12) and a removable front cover (14), which surround a plurality of stackable modules (16). The side walls (12) have a frame (26), two longitudinal rails (36) disposed therein and a transverse rail (44). For the servicing of a module (16'), the longitudinal rails (36) are disposed along the corners of the modules (16) remaining in the device, in order to secure the one or more modules (16) located above the module (16') to be serviced. The two frames (26) are disposed along two longitudinal rails (36) on the front side and can be connected, by means of cable pulls (42) mounted on the upper frame segment (30), to the transverse rails (44), on which the module (16') to be serviced lies, so that the module to be serviced can be removed from the installation device (10) after the one or more modules (16) located above the module (16') to be serviced are secured on the longitudinal rails (36).

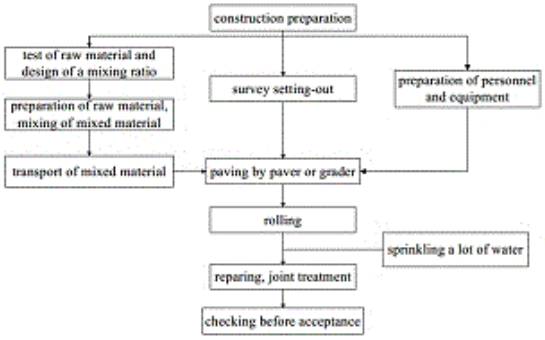


21: 2023/04537. 22: 2023/04/19. 43: 2024/05/02
51: A61K A61P
71: LG CHEM, LTD.
72: KIM, Ki Chan, KIM, Tae Hun

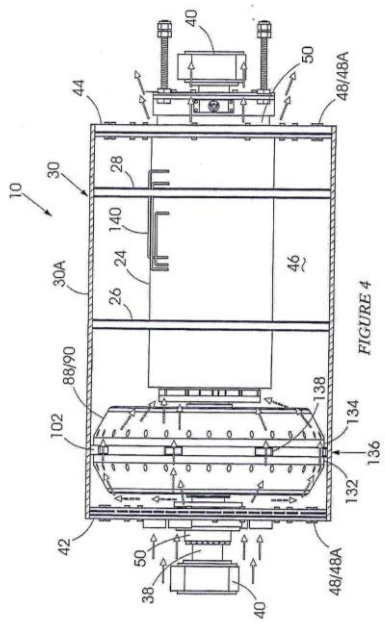
33: KR 31: 10-2020-0125583 32: 2020-09-28
54: USE OF SPHINGOSINE-1-PHOSPHATE RECEPTOR AGONIST
00: -
The present invention relates to use of a compound of chemical formula 1 or a pharmaceutically acceptable salt thereof for the prevention or treatment of atopic dermatitis.



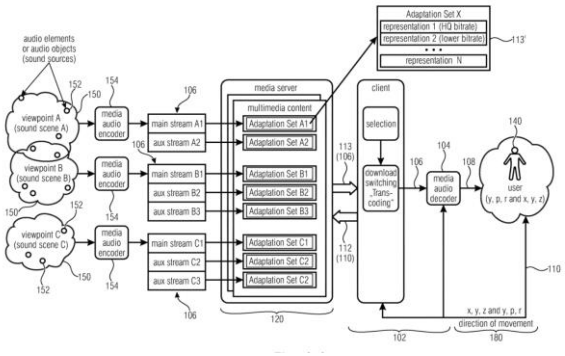
21: 2023/04587. 22: 2023/04/20. 43: 2024/05/22
51: E01C
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: BAI, YINZHAN
33: CN 31: 2022113542900 32: 2022-11-01
54: SATURATED WATER COMPACTION VIBRATING CONSTRUCTION PROCESS OF GRADED CRUSHED STONE
00: -
The present invention discloses a saturated water compaction vibrating construction process of graded crushed stone, including: checking an underlying layer, repairing; designing and testing to determine a mixing ratio, coefficient of loose paving and paving method; performing survey setting-out on underlying layer; placing the crushed stone raw material with mixing ratio into a mixing station to obtain mixed material; paving mixed material on surface of underlying layer, and compacting including: performing static rolling, repairing, levelling, performing vibration rolling, sprinkling mixed material after vibration rolling with water to saturation, and repeating vibration rolling until water flows away from gaps and a formed graded crushed stone layer meets compaction degree requirements. The present invention can realize application of the graded crushed stone to the airport pavement base, compaction degree can reach 100%, and the surface of the airport pavement base is flat and compacting without looseness and segregation.



21: 2023/04767. 22: 2023/04/25. 43: 2024/07/15
51: B65G; H02K
71: LAUBSCHER, Bernard
72: LAUBSCHER, Bernard
33: ZA 31: 2022/03689 32: 2022-03-31
54: CONVEYOR PULLEY ELECTRIC GENERATOR
00: -
An electrical generator which is mounted in a conveyor pulley shell which is rotatably driven by a conveyor belt. A stator is fixed to an inner surface of the shell. A rotor is rotated via a gear train which is driven by a ring gear fixed to the shell. A counterweight assembly allows the rotor to move relative to a magnetic field which is generated by the stator. Current is drawn via slip rings connected to the rotor.



21: 2023/04926. 22: 2023/05/03. 43: 2024/06/07
51: H04N
71: FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
72: MURTAZA, Adrian, FUCHS, Harald, CZELHAN, Bernd, PLOGSTIES, Jan, AGNELLI, Matteo, HOFMANN, Ingo
33: EP 31: 17196259.0 32: 2017-10-12
54: OPTIMIZING AUDIO DELIVERY FOR VIRTUAL REALITY APPLICATIONS
00: -
There are disclosed techniques, systems, methods and instructions for a virtual reality, VR, augmented reality, AR, mixed reality, MR, or 360-degree video environment. In one example, the system (102) comprises at least one media video decoder configured to decode video signals from video streams for the representation of VR, AR, MR or 360-degree video environment scenes to a user. The system comprises at least one audio decoder (104) configured to decode audio signals (108) from at least one audio stream (106). The system (102) is configured to request (112) at least one audio stream (106) and/or one audio element of an audio stream and/or one adaptation set to a server (120) on the basis of at least the user's current viewport and/or head orientation and/or movement data and/or interaction metadata and/or virtual positional data (110).



21: 2023/05638. 22: 2023/05/25. 43: 2024/07/10
51: A61K; A61Q
71: LORIA PHARMACEUTICAL, LLC
72: LORIA, Victor
33: US 31: 63/136,256 32: 2021-01-12
54: MULTIPLE VISCOSITY OIL-IN-WATER COMPOSITION USEFUL AS AN INJECTABLE FILLER AND A SCAFFOLD FOR COLLAGEN GROWTH
00: -
A filler composition which is a pharmaceutically acceptable oil-in-water emulsion including 1-80 vol.% of a first silicone oil having a first viscosity; 15-98 vol.% of water; 1-3 wt.% of a transport medium; 0.05-10 vol.% of a surfactant; and optionally a second silicone oil having a second viscosity lower than the first. The second silicone oil is provided at 1-80 vol.% when the first viscosity is 30,000 cSt or less, or 0-80 vol.% when the first viscosity is greater than 30,000 cSt. At least one of the first silicone oil and the second silicone oil is dispersed in water as droplets having an average diameter of less than 30 microns. The transport medium is sufficiently biodegradable when implanted intradermally or subcutaneously in a human to provide a temporary scaffold for collagen growth between the droplets. A method of making the filler composition and a soft tissue augmentation method are also disclosed.

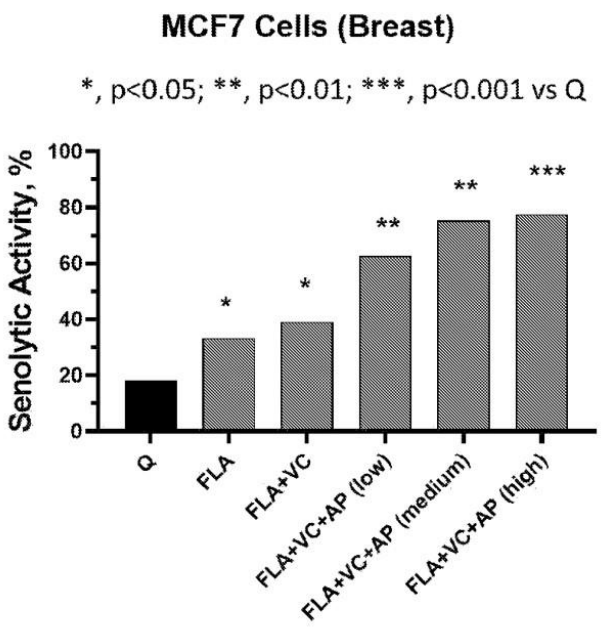
21: 2023/05910. 22: 2023/06/02. 43: 2024/07/08
51: A23K
71: Alzchem Trostberg GmbH
72: Jürgen SANS, Robert ALBER
33: DE 31: 10 2021 100 383.0 32: 2021-01-12
54: USE OF AN ANIMAL FEED ADDITIVE IN LOW-PROTEIN FEED FOR POULTRY
00: -
The invention relates to the use of a composition that contains guanidinoacetic acid and glycine in the fattening of poultry with low-protein feed.

21: 2023/06225. 22: 2023/06/13. 43: 2024/07/02
51: C21D
71: BEIJING RESEARCH INSTITUTE OF MECHANICAL & ELECTRICAL TECHNOLOGY CO., LTD.CAM
72: Xianjun LI, Wenliang ZHANG, Ping LUO, Chao JIANG, Decheng WANG, Lizhuang SUN, Wei JIA
33: CN 31: 202210483543.8 32: 2022-05-06
54: PRECISE HEAT TREATMENT METHOD FOR LOW-CARBON LOW-ALLOY HIGHSTRENGTH THIN STEEL SHEETS
00: -
The disclosure provides a precise heat treatment method for a low-carbon, low-alloy, high-strength thin steel sheet, and relates to the technical field of material processing. Through annealing treatment,

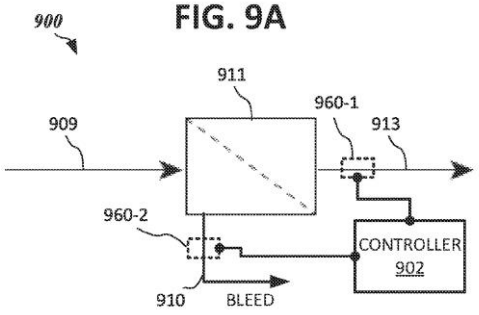
austenitizing treatment, clamping and quenching treatment and tempering treatment sequentially, the structure of the steel sheet is transformed into ferrite and pearlite structure, austenite structure, martensite structure and tempered martensite structure, in which the clamping force for the steel sheet during the clamping and quenching treatment varies. The method realizes precise and synergistic control of performance and shape, and the obtained steel sheet has little deformation, no obvious indentation on the surface, and has excellent mechanical properties, and the production cost is reduced and the process steps are simplified.

21: 2023/06227. 22: 2023/06/13. 43: 2024/07/02
51: A23B
71: JP LABORATORIES, INC.
72: Gordhanbhai N. PATEL, Julia Koleda NORDENBRING
33: US 31: 63/140,160 32: 2021-01-21
33: US 31: 63/231,890 32: 2021-08-11
54: MATERIALS AND METHODS FOR EXTENDING SHELF-LIFE OF FOODS
00: -
A food with an extended shelf-life and a method of extending shelf-life of food is provided herein. The extended shelf-life is provided by treating the food with at least one shelf-life extender selected from a group consisting of an isothiocyanate, a non-aromatic cyclic ketone, a boronic acid, a ligand and their precursors.

21: 2023/06228. 22: 2023/06/13. 43: 2024/07/02
51: A61K; A61P
71: BIONEXA S.R.L
72: Giovanni Mario PITARI, Venera RUSSO, Claudia Giovanna LEOTTA, Mario CORREALE, Paolo CORREALE
33: IT 31: 102020000029213 32: 2020-01-12
54: SENOTHERAPEUTIC SUBSTANCE
00: -
It is provided a senotherapeutic substance characterized by comprising flavonoids, fatty acids, and, preferably, phenolic acids and / or vitamins.



21: 2023/06688. 22: 2023/06/29. 43: 2024/07/02
51: B01D
71: CTX, LLC
72: Stanton Russell SMITH
33: US 31: 63/199,557 32: 2021-01-08
54: SYSTEMS AND METHODS OF OPERATING WATER FILTRATION SYSTEMS
00: -
An aspect of the present disclosure is directed to methods and systems for filtration of water that may, or may not, include scaling/fouling compounds within feed water. Instead, systems and methods consistent with the present disclosure can operate using a membrane system/configuration that includes an input feed stream, output permeate stream, and a bleed stream with an ever-increasing concentration of retained contaminants in the bleed stream.



21: 2023/06689. 22: 2023/06/29. 43: 2024/07/02
51: E01F
71: OFFICINE MACCAFERRI S.P.A.
72: Paolo BIANCHINI
33: IT 31: 102021000003179 32: 2021-02-12
54: PROTECTION STRUCTURE AND METAL PROTECTION NET FOR SUCH A PROTECTION STRUCTURE
00: -
A protection structure for civil works comprises at least one metal protection net, comprising a plurality of elongate resistant elements which are in the form of wire, rope or cable, wherein at least some of the plurality of elongate resistant elements are made from a material having superelastic behaviour.

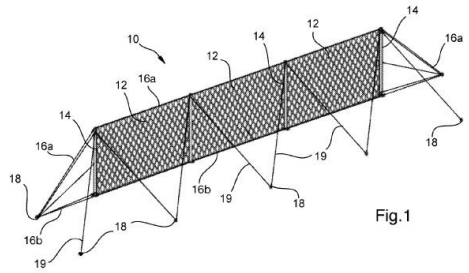
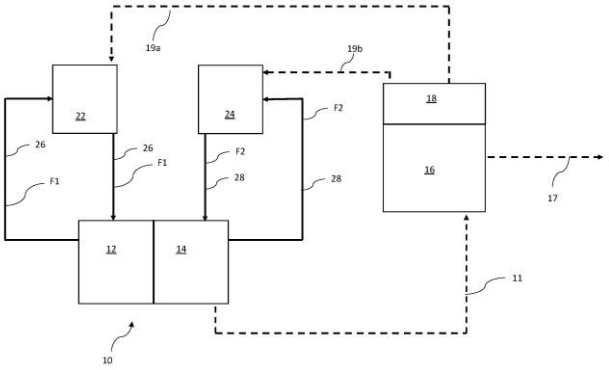


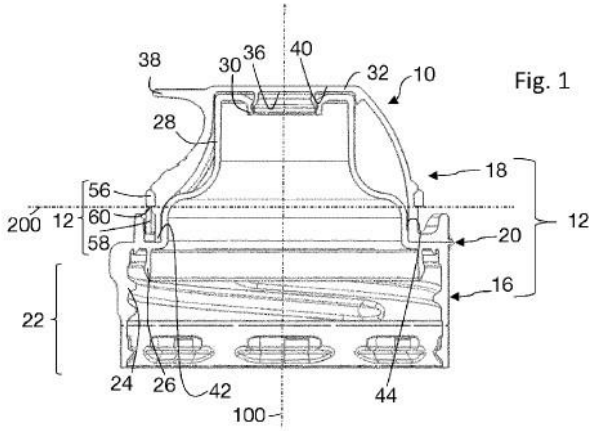
Fig.1

21: 2023/07595. 22: 2023/07/31. 43: 2024/07/04
51: C12M; C12P; C25B
71: ELECTROCHAEA GMBH
72: PATEL, Nitant, LEWANDOWSKI, Birgit, PINDER, Zachary, HAFENBRADL, Doris, RODRIGO, Jose
33: DE 31: 20 2021 100 957.8 32: 2021-02-25
33: DE 31: 10 2021 112 844.7 32: 2021-05-18
54: HEAT EXCHANGE SYSTEM
00: -
A heat exchange system according to the current invention, comprises a Microbial Electrolysis Cell (MEC) with an anode side comprising an anode electrode and an anolyte, and a cathode side comprising a cathode electrode and a catholyte. The heat exchange system of the current invention further comprises an anolyte reservoir fluidly connected with the anode side of the MEC and a catholyte reservoir fluidly connected with the cathode side of the MEC wherein the anolyte reservoir and the anode side of the MEC are fluidly connected by a anolyte circuit in which anolyte is circulated and wherein the catholyte reservoir and the cathode side of the MEC are fluidly connected by a catholyte circuit in which a catholyte is circulated. The heat exchange system further comprises a heat storage system comprising a heat buffer tank to store at least a first portion of heat generated in the cathode side of the MEC. The heat exchange system being characterized in that the first portion of heat generated in the cathode side of the MEC comprises heat generated by the cathode electrode and/or heat extracted from the catholyte of the cathode side of the MEC. The heat storage system further comprises a heat managing system configured to selectively feed a second portion of stored heat from the heat buffer tank to the anolyte reservoir and/or to the catholyte reservoir.

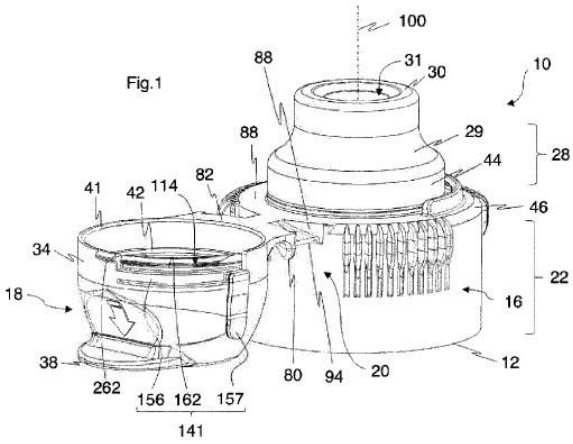


21: 2023/08631. 22: 2023/09/08. 43: 2024/05/31
51: B65D
71: BERICAP HOLDING GMBH
72: NUSBAUM, Philippe
33: DE 31: 10 2021 105 870.8 32: 2021-03-10
33: DE 31: 10 2021 113 872.8 32: 2021-05-28
54: CONTAINER CLOSURE WITH TAMPER-EVIDENT RING, AND METHOD FOR ASSEMBLING A CONTAINER CLOSURE OF THIS KIND
00: -
The invention relates to a container closure (10) comprising a base portion (16) which extends about a reference axis (100) of the container closure (10), a cap portion (18) which in a closed positioned covers a drinking hole (30) in the container closure (10) and in an open position leaves said drinking hole in the container closure (10) uncovered, and a tamper-evident ring (14) which is separate from the cap portion (18) and the base portion (16) and is interlockingly connected to the cap portion (18) and connected to the base portion (14) in a hooked manner. The tamper-evident ring (18) has an annular bead (56) that is not radially covered by the base portion (16) and extends in an annular groove

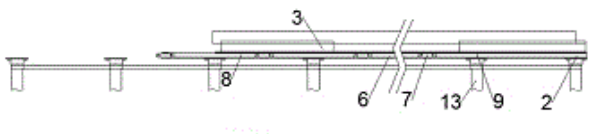
(54) of an outer wall (34) of the cap portion (18), which wall faces radially outward.



21: 2023/08632. 22: 2023/09/08. 43: 2024/05/31
51: B65D
71: BERICAP HOLDING GMBH
72: NUSBAUM, Philippe
33: DE 31: 10 2021 105 870.8 32: 2021-03-10
33: DE 31: 10 2021 113 872.8 32: 2021-05-28
33: DE 31: 10 2021 132 116.6 32: 2021-12-07
54: ASEPTIC CONTAINER CLOSURE HAVING A HINGE AND A MOUTHPIECE
00: -
The invention relates to a container closure (10) comprising a base portion (16), a pouring region (28) having a peripheral wall (29) that extends about a reference axis (100) of the container closure (10), and a cap portion (18) which is connected to the base portion (16) by means of a hinge (20). The cap portion has a base (36), a peripheral outer wall (34) which extends axially from the base (32) to a peripheral lower edge (41) of the cap portion (18), and an anchoring wall (80) which extends outside the outer wall (34) and at a radial distance from said outer wall (34), and which is connected to the lower edge (41) of the cap portion (18) by means of a bridge (82) of the cap portion (18) that extends radially outwards from the lower edge (41) of the cap portion (18); in the closed position, the anchoring wall (80) protrudes from the bridge (82) in a direction opposite to the base portion (16), and the hinge (20) is connected to the anchoring wall (80) and protrudes from the anchoring wall (80) in the direction of the base portion (16).



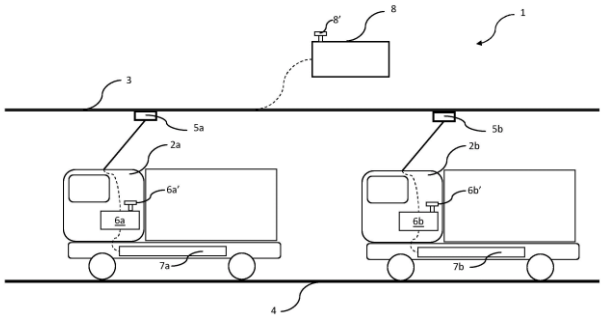
21: 2023/08821. 22: 2023/09/18. 43: 2024/05/27
51: E02D; E02B
71: CHINA HARBOUR ENGINEERING COMPANY LTD.
72: BAI, YINZHAN
33: CN 31: 2023106490978 32: 2023-06-02
54: CONSTRUCTION METHOD FOR OVERWATER PILE SINKING BASED ON MOBILE PILE DRIVING PLATFORM
00: -
The invention discloses a construction method for overwater pile sinking based on a mobile pile driving platform, comprising: S1: constructing an auxiliary platform, assembling mobile pile driving platform, arranging a track pile group, mounting a pile delivery track on track pile group, and mounting a pile delivery trolley; S2: carrying a single steel pipe pile to a pile lifting range, lifting, and sending into a pile holder for sinking, after lifted, carrying the next pile; S3: repeating S2 until all steel pipe piles of mobile pile driving platform in current span are constructed, and extending the pile delivery track; S4: driving mobile pile driving platform to advance for one span, and repeating S2, S3 to perform pile sinking for next span; and S5: repeating S4 until all steel pipe piles are constructed. The pile delivery track in the invention is constructed based on steel pipe piles to facilitate transportation.



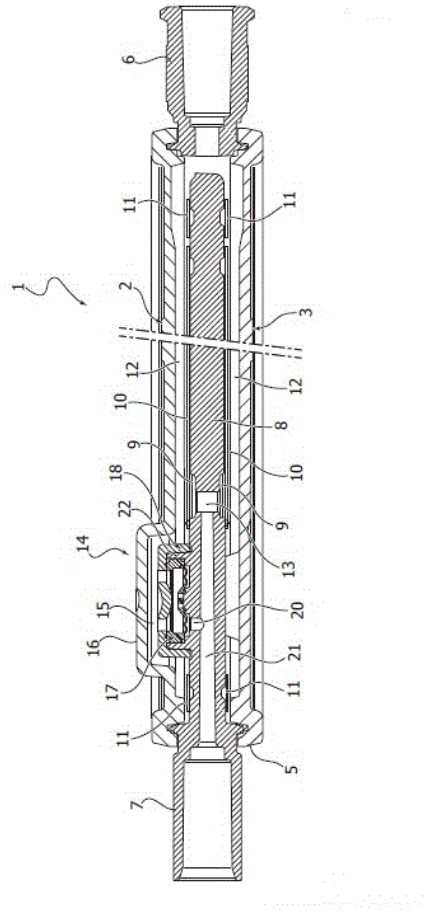
21: 2023/09189. 22: 2023/09/29. 43: 2024/05/27
51: B41M; B42D

71: Gleitsmann Security Inks GmbH
72: GUTMANN, Roland
33: EP(DE) 31: 21160065.5 32: 2021-03-01
54: A METHOD FOR NUMBERING, QR CODING AND/OR BARCODING OF BANKNOTES USING LASER WRITING
00: -
A method for continuously or semi-continuously numbering, QR coding and/or barcoding of banknotes comprises the following steps: i) providing a substrate in form of a sheet of (security) paper or of a sheet of (security) polymer foil or a (security) composite comprising at least one security paper layer and at least one security polymer foil, ii) printing onto each of the two surfaces of the substrate sheet each one or more printing ink layers so as to generate a plurality of banknotes on the substrate sheet, wherein each printing ink layer extends over a part or the whole of the surface area of the substrate sheet, and wherein the printing ink of at least one of the printing ink layers comprises at least one pigment and/or at least one dye, which changes its color upon exposition to laser radiation, iii) curing the printing ink layers, iv) exposing the printed and cured (dried) substrate sheet to laser radiation so as to create one or more features selected from the group consisting of individual numbers each comprising at least two numerals and optionally one or more characters, of individual QR codes, of individual barcodes and arbitrary combinations of two or more of the aforementioned features on each banknote of the printed substrate sheet, wherein all of the one or more individual (serial) numbers, of the one or more QR codes and of the one or more barcodes are generated by the exposure to the laser radiation, and v) cutting the printed substrate sheet obtained in step iv) to individual banknotes.

21: 2023/09259. 22: 2023/10/03. 43: 2024/05/02
51: B60L
71: Bluvein Innovation Pty. Ltd.
72: OLIVER, James, SPRAGUE, Anthony, ASPLUND, Gunnar
54: SYSTEM FOR ELECTRICALLY FEEDING ELECTRICALLY POWERED VEHICLES
00: -
System (1) for electrically feeding electrically powered vehicles (2a-b), comprising electric conductor(s) (3) extending along a road section (4) and a central electronic control unit, CECU (8). The vehicles comprise a current collector (5a-b), an onboard energy storage device (7a-b) and a thereto connected vehicle electronic control unit, VECU (6a-b). The VECU is configured to determine a current required power and a current energy storage status, and to send a signal to the CECU indicating the current required power and the energy storage status. The CECU is configured to determine a maximum power available via said electric conductor and a power to be received for each vehicle such that the maximum power is not exceeded and send at least one power control signal to each VECU indicating the power to be received. The VECU is configured to control received power in response to said at least one power control signal.



21: 2023/09340. 22: 2023/10/06. 43: 2024/05/02
51: A61M
71: Industrie Borla S.p.A.
72: GUALA, Gianni
33: IT 31: 102022000020931 32: 2022-10-11
54: FILTER FOR INFUSION MEDICAL LINES
00: -
Filter for medical infusion lines comprising a box-like body (1) having an inlet connector (6) and inside which there is arranged a plate-like element (8) on whose one or both opposite faces there are formed respective channels (9) placed in communication with an outlet connector (7). Filtering hydrophilic membranes (10) separate the channels (9) from at least one interspace (12) placed in communication with the inlet connector (6). With the outlet connector (7) there is operatively associated an overpressure valve (14) incorporated in the box-like body (1) of the filter.



21: 2023/09422. 22: 2023/10/09. 43: 2024/05/10
51: B63B; E02D; F03D
71: Delta Laboratories Holding B.V.
72: SCHIELE, DHR., André, LOPES, Gabriel, OOSTERLOO, Dabian
33: NL 31: 2027739 32: 2021-03-10

54: METHOD AND SYSTEM FOR CONTROLLING A POSITION AND/OR AN ORIENTATION OF AN ELONGATED STRUCTURE

00: -

A method of controlling a position and/or an orientation of an elongated structure is provided. The method is a method of controlling a position and/or an orientation of an elongated structure connected via a gripper to a vessel. The method comprises the steps of: receiving force data indicative of an interaction force between the structure and the gripper; and controlling a position and/or an orientation of the structure and the vessel, in particular controlling a position and/or orientation of the structure and/or the vessel with respect to each other. The step of controlling a position and/or an orientation of the structure and the vessel comprises controlling the position and/or the orientation of the structure and the vessel on the basis of the force data.

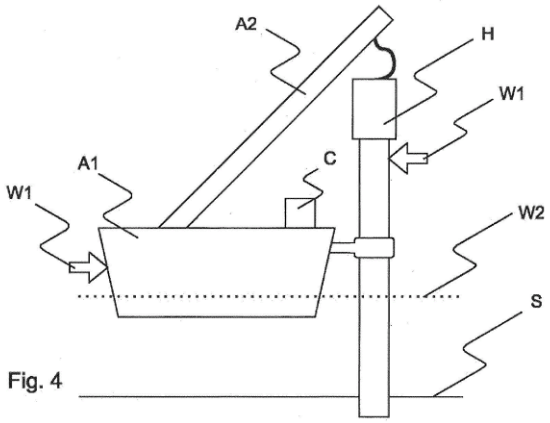


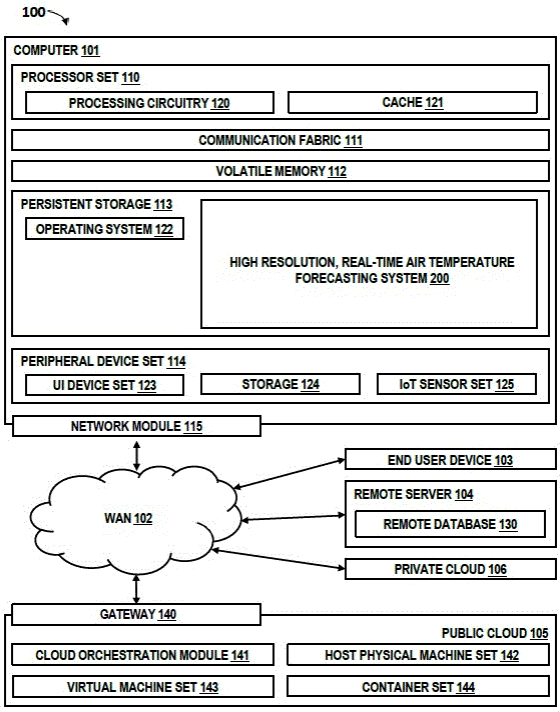
Fig. 4

21: 2023/09448. 22: 2023/10/10. 43: 2024/05/10
51: G01W; G06N
71: International Business Machines Corporation
72: AKHALWAYA, Ismail Yunus, VOS, Etienne Eben, MAKHANYA, Sibusisiwe Audrey, GOVINDASAMY, Tamara Rosemary, PATEL, Zubeida, MORAKE, Dedricks Monyai, MAHLASI, Craig, BHAMJEE, Muaaz
33: US 31: 18/200,050 32: 2023-05-22

54: DYNAMICALLY FORECASTING HIGH RESOLUTION AIR TEMPERATURE IN REAL-TIME USING MULTIPLE SOURCES

00: -

Techniques for dynamically forecasting high spatial resolution air temperature in real-time using a multiplicity of data sources and advanced machine learning models are provided. In one aspect, a system for generating air temperature forecasts includes: a spatial downscaling module for providing air temperature data from a multiplicity of sources as input to a generative adversarial network, conditioning the input to the generative adversarial network on at least one conditioning variable, and generating high resolution air temperature maps; and a temporal forecasting module for providing the high resolution air temperature maps along with real-time air temperature data from a sensor network as input to a physics-informed neural network with extended Kalman filter, and generating high temporal and spatial resolution air temperature forecasts. A method for generating air temperature forecasts using the present system is also provided.



21: 2023/09513. 22: 2023/10/11. 43: 2024/05/03
51: D04B
71: Lonati S.p.A.
72: LONATI, Ettore, LONATI, Fausto, LONATI, Francesco
33: IT 31: 102021000014318 32: 2021-06-01
54: CIRCULAR KNITTING MACHINE FOR HOSIERY OR THE LIKE AND METHOD FOR PRODUCING A TUBULAR MANUFACTURE
00: -
A circular knitting machine with a needle cylinder configured to provide a tubular item and comprising a pickup device passing between a pickup position, in which it is arranged coaxially around the cylinder to pick up the item, and a position for its release at a station which is spaced laterally from the cylinder, at the station is a turning device comprising a lower portion forming an access inlet, the lower portion of the turning device being designed to accommodate coaxially the item to turn it, the circular machine comprises traction means acting on command at the outer surface of the tubular item and adapted to convey one portion of it at one accumulation region, the turning device being associated with suction means to transfer one portion of the tubular manufacture conveyed in the accumulation region toward the lower portion of the turning device through the access inlet.

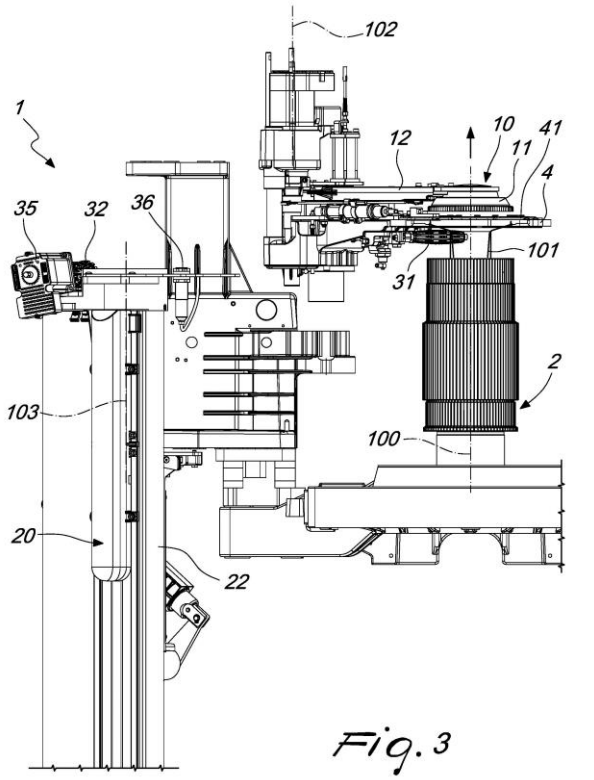
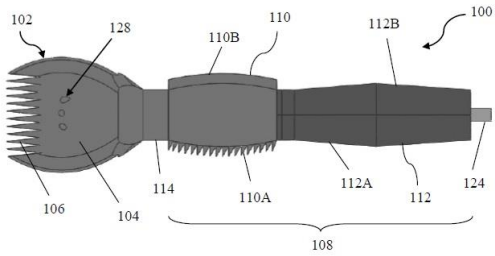


Fig. 3

21: 2023/09526. 22: 2023/10/11. 43: 2024/04/11
51: A47G
71: BALA INDUSTRIES AND ENTERTAINMENT PRIVATE LIMITED
72: BEIGH; Mirza Mohammad Idrees Ul Haq
33: IN 31: 202121011953 32: 2021-03-20
54: A MULTI-UTILITARIAN IMPLEMENT SUITABLE FOR USE ON THE DINING TABLE
00: -
The present disclosure is related to dinnerware, and envisages a multi-utilitarian implement (lO0) suitable for use on the dining table. The implement (lO0) comprises a spork (102) defined by a shallow scoop (104) having a plurality of tines (106) configured on a first distal end of the scoop (104); and a handle (108) detachably connected to a second distal end of the scoop (104). The handle (108) comprises a two-edged knife element (ll0) and a pair of chopsticks (112). The knife element (ll0) has a pair of lateral edges (ll0A, ll0B), each lateral edge (ll0A, ll0B) being configured as a type of a knife. The chopsticks (112) are detachably joined to an operative first end of the knife element (1lO), to act as the handle (108) in an attached state with the knife element (1lO).



21: 2023/09604. 22: 2023/10/13. 43: 2024/05/03
51: B28B
71: Nordex Energy Spain S.A.U.
72: CERRILLO GÓMEZ, Vanessa, CAMARERO TABLADO, David
33: EP(ES) 31: 21383212.4 32: 2021-12-23
54: MOLD PART FOR MANUFACTURING TOOTHED VERTICAL JOINTS OF KEYSTONES AND MOLD COMPRISING THE MOLD PART
00: -
A mold part (6) for manufacturing vertical joints of keystones (5) comprising a foam piece (7); and a silicone piece (11) covering the foam piece (11), wherein the foam piece (7) and the silicone piece comprise a plurality of protrusions (17) and recesses (16), thus providing a toothed surface in a concrete surface of the vertical joint. The mold-part can comprise stiffeners (20) and handles (19, 21) for demolding manually after curing the concrete keystones, leaving the inner surface of the keystone with a toothed appearance.

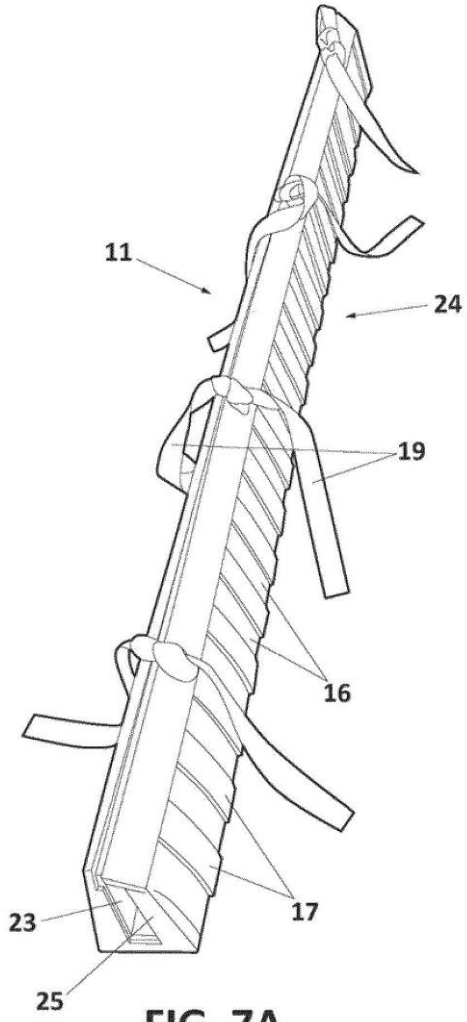


FIG. 7A

21: 2023/09605. 22: 2023/10/13. 43: 2024/05/10
51: B60P; F03D
71: Nordex Energy Spain S.A.U.
72: PALACIOS BURGOS, Luis, ARRAZTOA MAGAÑA, Unai, ABOITIZ GARROGUERRICAECHEBARRIA, Idoia, GONZALEZ LAHERA, Iñaki
33: EP(ES) 31: 21383200.9 32: 2021-12-22
54: SYSTEM FOR HANDLING A NACELLE OF A WIND TURBINE AND RELATED METHODS
00: -
The present invention relates to a system for handling a nacelle of a wind turbine for instance for the purpose of transporting the nacelle to or from a site of installation of the wind turbine, wherein the system reduces the loading and/or unloading time and provides a more flexible planning for the nacelle transportation, and the invention also relates to a method for loading a nacelle of a wind turbine on a

transportation means and a method for unloading a nacelle of a wind turbine from a transportation means.

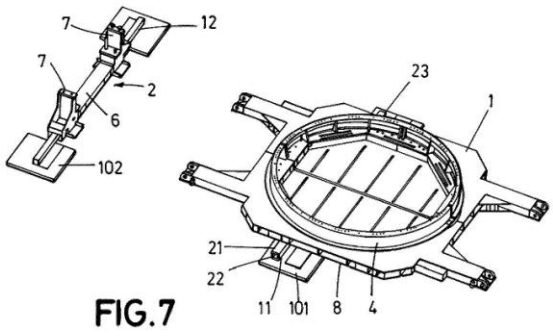
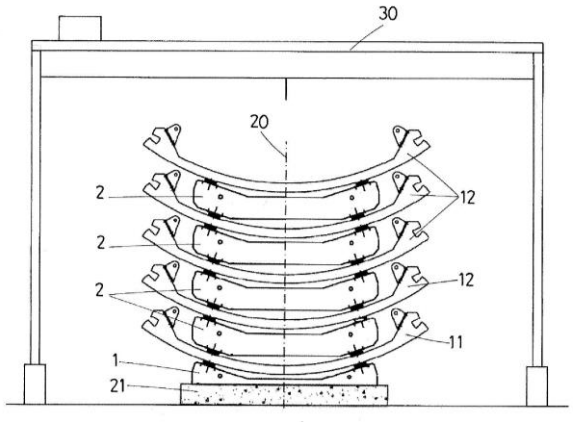
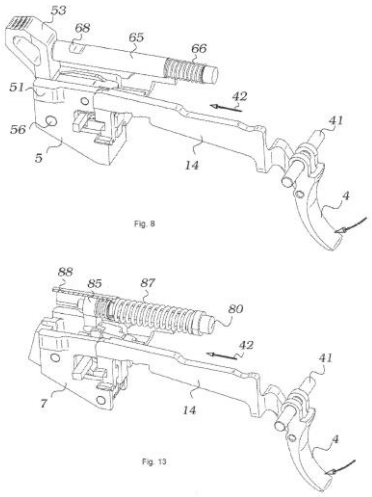


FIG.7

21: 2023/09614. 22: 2023/10/13. 43: 2024/05/03
51: E04H; F03D
71: Nordex Energy Spain, S.A.U.
72: CERRILLO GÓMEZ, Vanessa, ARRAZTOA MAGAÑA, Unai
33: EP(ES) 31: 21383237.1 32: 2021-12-30
54: SUPPORT ELEMENT FOR A SEGMENT OF WIND TURBINE TOWERS, SUPPORT SYSTEM COMPRISING AT LEAST A SUPPORT ELEMENT AND METHOD OF SUPPORTING AT LEAST A SEGMENT OF WIND TURBINE TOWERS
00: -
The present invention relates to a support element for a segment of wind turbine towers which avoids damage of the segment while the segment is supported or stacked, a support system comprising at least a support element which provides a competitive advantage that allows to reduce the space necessary for storing the segments or to allow more segments to be stored in the same space, and a method of supporting at least a segment of wind turbine towers.



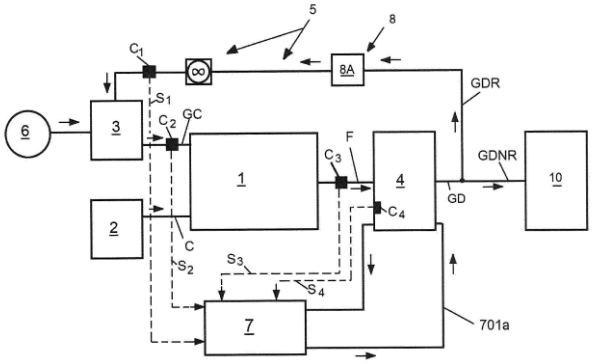
21: 2023/09643. 22: 2023/10/16. 43: 2024/05/03
51: F41A
71: Gestamen Kutatás Fejlesztés Zrt.
72: BOZÓ, Gábor
33: HU 31: P2100110 32: 2021-03-17
54: DOUBLE FIRING MODE SEMI-AUTOMATIC HANDGUN
00: -
Double firing mode semi-automatic handgun, that can be used either in hammer- or in striker firing modes that comprises a frame (1), a barrel (2), a spring biased slide (3), and a firing assembly with a firing rod (14) operated by the trigger (4). The handgun comprises furthermore a frame pocket (11) provided in the rear part of the frame (1) which is open from above, in which in hammer mode an associated frame inset (5) and in striker mode an associated other frame inset (7) can be inserted, and the rear part of the slide (3) comprises a slide pocket (12) in which in hammer mode an associated slide inset (6) and in striker mode an associated other slide inset (8) can be inserted, and in front of the connection site of the frame pocket (12) and behind the barrel (2) a firing pin (9) is arranged extending to a cartridge receiving chamber (21), and in both firing modes the frame insets (5 or 7) and the slide insets (6 or 8) cooperate, and by means of the rearward motion of the firing rod (14) a surface is pushed on the frame inset (5 or 7), and this pushing movement is transformed into an axial hit on the firing pin (9) by a spring bias or by the release of a lock.



21: 2023/09718. 22: 2023/10/18. 43: 2024/05/03
51: C03C
71: Saint-Gobain Glass France
72: DI PIERRO, Simonpietro, CINTORA GONZALEZ, Octavio, COCHARD, Jean-Patrick
33: FR 31: 2104436 32: 2021-04-28
54: METHOD FOR PRODUCING FLOAT GLASS FROM UNPROCESSED MINERAL MATERIALS
00: -
The invention relates to a mixture of raw materials for the production of molten glass, having a float glass-type target composition, comprising melting a mixture of raw materials forming a molten bath, in which said raw materials comprise sources of calcium and/or magnesium derived from natural mineral materials, i.e. derived from an unprocessed natural geological environment.

21: 2023/09720. 22: 2023/10/18. 43: 2024/05/03
51: A61K; A61P
71: Givaudan SA
72: FANÇA-BERTHON, Pascale Elizabeth Renée, CALAFAT, Stéphanie, RANZINI, Cristina Maria, ANTONI, Gaetan, LECOZANNET, Romain, NAVARRO, Rosa, HEBERT, Yoann
33: US 31: 63/182,551 32: 2021-04-30
54: COMPOSITIONS
00: -
The present invention relates to compositions comprising gingeroids or ginger oleoresin; in particular, compositions comprising gingeroids or ginger oleoresin that are highly water soluble and have an increased bioavailability. The present invention also relates to processes for providing such compositions and uses of such compositions.

21: 2023/09759. 22: 2023/10/06. 43: 2024/05/27
51: F23J; F23L; F23N
71: Carbodown
72: ZEMMOURI, Jaouad
33: FR 31: 2103568 32: 2021-04-07
54: COMBUSTION SYSTEM USING, AS AN OXIDISER, A MIXTURE OF MOLECULAR OXYGEN AND A DEHUMIDIFIED GAS OBTAINED FROM COMBUSTION FUMES
00: -
The invention relates to a combustion system comprising a unit (3) for producing oxidising gas (GC), a combustion apparatus (1), a unit (4) for condensing the combustion fumes (F; F') by bringing the combustion fumes (F) into contact with at least one coolant liquid, recycling means (5), and a unit (6) for providing molecular oxygen. The unit (3) for producing oxidising gas makes it possible to supply the combustion apparatus (1) with an oxidising gas (GC) originating from the mixing of molecular oxygen and the recycled portion (GDR) of said dehumidified gas (GD). The combustion system also comprises a regulating unit (7) having the function of automatically regulating the temperature (TL) of the coolant liquid (L) of the condensing unit (4) and/or a means (8) for heating the recycled portion (GDR) of said dehumidified gas (GD).



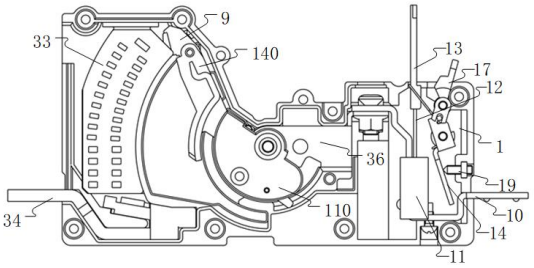
21: 2023/09928. 22: 2023/10/24. 43: 2024/05/03
51: A61B; C11B
71: Givaudan SA
72: GAETA, Giuliano, PROVAN, Alan Forbes, GUNASEKARA, Natalie Anuradha T.D.
33: GB 31: 2107716.9 32: 2021-05-28
54: FRAGRANCE FOR IMPROVING HAPPINESS STATE AND METHOD OF ASSESSING
00: -

The present disclosure relates to methods of assessing the ability of a test fragrance ingredient or a test fragrance composition to improve the happiness state of a human subject and of creating fragrance compositions having a positive happy effect on a human subject. It further relates to fragrance compositions for improving the happiness state of a human subject, to consumer products comprising such fragrance compositions, and to methods of improving the happiness state of a human subject.

21: 2023/09929. 22: 2023/10/24. 43: 2024/05/03
51: A61B; C11B
71: Givaudan SA
72: GAETA, Giuliano, PROVAN, Alan Forbes, MATHEWS, Imogen Maria, PARKKINEN, Salla Katja Emilia
33: GB 31: 2107716.9 32: 2021-05-28
54: ORAL CARE FLAVOUR FOR IMPROVING RELAXATION STATE AND METHOD OF ASSESSING
00: -
The present disclosure relates to methods of assessing the ability of a test oral care flavour ingredient or a test oral care flavour composition to improve the relaxation state of a human subject and of creating oral care flavour compositions having a relaxing effect on a human subject. It further relates to oral care flavour compositions for improving the relaxation state of a human subject, to consumer products comprising such oral care flavour compositions, and to methods of improving the relaxation state of a human subject.

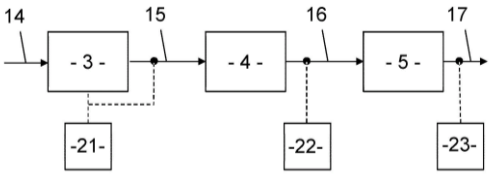
21: 2023/09930. 22: 2023/10/24. 43: 2024/05/03
51: A61B; C11B
71: Givaudan SA
72: GAETA, Giuliano, PROVAN, Alan Forbes, GUNASEKARA, Natalie Anuradha T.D., KONTARIS, Ioannis
33: GB 31: 2107716.9 32: 2021-05-28
54: FRAGRANCE FOR IMPROVING RELAXATION STATE AND METHOD OF ASSESSING
00: -
The present disclosure relates to methods of assessing the ability of a test fragrance ingredient or a test fragrance composition to improve the relaxation state of a human subject and of creating fragrance compositions having a relaxing effect on a human subject. It further relates to fragrance compositions for improving the relaxation state of a human subject, to consumer products comprising such fragrance compositions, and to methods of improving the relaxation state of a human subject.

21: 2023/09937. 22: 2023/10/24. 43: 2024/04/25
51: H01H
71: CHINT LOW VOLTAGE ELECTRICAL TECHNOLOGY CO., LTD.
72: AO, Denggui, YAN, Lijun, LU, Dengyu, YUAN, Xiaoqin
33: CN 31: 202111223461.1 32: 2021-10-20
54: CIRCUIT BREAKER
00: -
The present invention relates to the field of low-voltage electrical appliances, in particular to a circuit breaker. The circuit breaker includes a plurality of circuit breaker poles, an operating mechanism and a tripping system, wherein each of the circuit breaker poles includes a pole housing and a contact system, and the contact system includes a moving contact mechanism and a static contact; the operating mechanism is disposed outside respective circuit breaker poles and is in driving connection to the corresponding moving contact mechanism; the tripping system includes a plurality of groups of tripping mechanisms and an adjusting mechanism; each group of tripping mechanism includes a conductive plate, a magnetic yoke and an armature, wherein the conductive plate passes through the middle of the magnetic yoke; each circuit breaker pole is provided with a group of tripping mechanism therein, and the contact system of each circuit breaker pole is electrically connected to the corresponding conductive plate; each adjusting mechanism includes a linkage rod; and each group of the tripping mechanism further includes an insulated transmission rod which is disposed rotatably, wherein one end of the insulated transmission rod is inserted into the pole housing and is in driving fit with the armature, and the other end of the insulated transmission rod protrudes out of the pole housing and is in driving fit with the operating mechanism through the linkage rod to drive the operating mechanism to trip. The circuit breaker has good insulativity and high safety.



21: 2023/09966. 22: 2023/10/25. 43: 2024/05/03
51: A61K; A61P
71: Impact Therapeutics (Shanghai), Inc
72: CAI, Sui Xiong, MA, Ning, ZHAO, Liping, LIU, Chunhui, SHI, Zongfeng
33: CN 31: 202110327776.4 32: 2021-03-26
54: ORAL CAPSULE OF PARP INHIBITOR AND PREPARATION METHOD THEREOF
00: -
An oral capsule formulation of a PARP inhibitor and a preparation method. The oral capsule formulation comprises a solid dispersion powder of an active ingredient 5-fluoro-1-(4-fluoro-3-(4-(pyrimidin-2-yl)piperazine-1-carbonyl)benzyl)quinazoline-2,4(1H,3H)-dione, a filler, a disintegrant, a glidant, and a lubricant, wherein less than 10 wt.% of the active ingredient in the solid dispersion powder is in a crystalline form. The defects of the fluidity, hygroscopicity and cohesiveness of the solid dispersion powder which result in the difficulty of production scale up of capsule formulation are addressed, and thus commercial scale production can be achieved, and the prepared capsule exhibits proper dissolution rate, excellent storage stability, meanwhile with a reasonable production cost.

21: 2023/10011. 22: 2023/10/26. 43: 2024/05/03
51: A23L; C13B; G01N
71: Pfeifer & Langen IP GmbH
72: BURKHARDT, Mark-Oliver, KLOSTERHALFEN, Wolfgang
33: EP(DE) 31: 21170220.4 32: 2021-04-23
54: PROCESS FOR PRODUCING THIN JUICE FOR THE PRODUCTION OF SUGAR, PROCESS FOR PRODUCING SUGAR AND SUGAR PRODUCTION PLANT
00: -
The present invention relates to a process for producing thin juice (17, 27) for the production of sugar, wherein milk of lime – in a first liming step (3) – is first added to a raw juice (14) in order to obtain a mixture of raw juice and milk of lime (15), and then carbon dioxide – in a first carbonation step (4) – is added to the mixture of raw juice and milk of lime (15) in order to obtain a mixture of raw juice and precipitated non-sugar substances (16), and the mixture of raw juice and precipitated non-sugar substances (16) – in a first filtration step (5) – is subsequently filtered in order to obtain a first thin juice (17), milk of lime – in a second liming step (3') – is optionally added to the first thin juice (17) in order to obtain a mixture of first thin juice and milk of lime (25), and carbon dioxide – in a second carbonation step (4') – is optionally added to the first thin juice (17) or to the mixture of first thin juice and milk of lime (25) in order to obtain a mixture of first thin juice and precipitated non-sugar substances (26), and the mixture of first thin juice and precipitated non-sugar substances (26) – in a second filtration step (5') – is filtered in order to obtain a second thin juice (27), wherein at least one first sensor device (21) is used to detect first measurement data relating to the mixture of raw juice and milk of lime (15) and/or to the mixture of first thin juice and milk of lime (25) during or after the first or second liming step (3, 3') and/or at least one second sensor device (22) is used to detect second measurement data relating to the mixture of raw juice and precipitated non-sugar substances (16) and/or to the mixture of first thin juice and precipitated non-sugar substances (26) during or after the first or second carbonation step (4, 4') and/or at least one third sensor device (23) is used to detect third measurement data relating to the first and/or second thin juice (17).

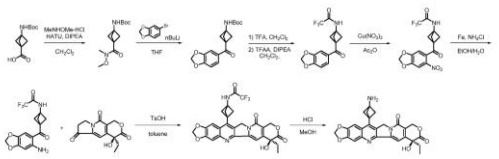


21: 2023/10057. 22: 2023/10/27. 43: 2024/05/03
51: A61K; C07D; C07K
71: AbbVie Inc.
72: PHILLIPS, Andrew C., REILLY, Regina M., DOHERTY, George A., JI, Cheng, BRUNCKO, Milan, BOGHAERT, Erwin R., ANDERSON, Mark
33: US 31: 63/181,963 32: 2021-04-29

54: ANTI-C-MET ANTIBODY DRUG CONJUGATES

00: -

The present disclosure provides c-Met antibody drug conjugates (ADCs), including compositions and methods of using such ADCs.

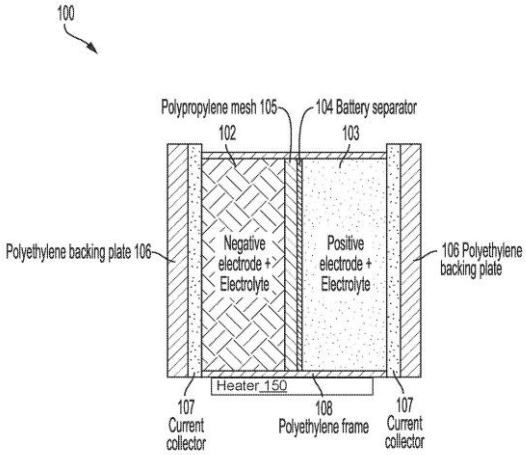


21: 2023/10058. 22: 2023/10/27. 43: 2024/05/03
51: H01M
71: Form Energy, Inc.
72: THOMPSON, Annelise Christine, GIBSON, Michael Andrew, WOODFORD, William Henry, EISENACH, Rebecca Marie, NEWHOUSE, Jocelyn Marie, PERKINS, Nicholas Reed, TAYLOR, Olivia Claire, SCHRODER, Kjell William, THOMAS-ALYEA, Karen
33: US 31: 63/181,757 32: 2021-04-29

54: ELECTROLYTE FORMULATIONS AND ADDITIVES FOR IRON ANODE ELECTROCHEMICAL SYSTEMS

00: -

Systems, methods, and devices of various aspects include using tin and/or antimony as an additive to an electrolyte and/or electrode in an electrochemical system, such as a battery, having an iron-based anode. In some aspects, the addition of tin and/or antimony may improve cycling of the iron-based anode. Systems, methods, and devices of various aspects include using high hydroxide concentration electrolyte in an electrochemical system, such as a battery. In some aspects, a high hydroxide concentration electrolyte may increase the stored amount of charge stored in the cell (i.e., the capacity of the battery material) and/or decrease the overpotential (i.e., increase the voltage) of the battery.



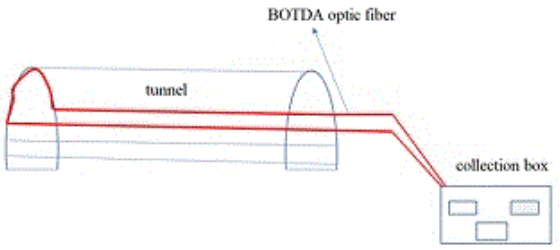
21: 2023/10146. 22: 2023/10/31. 43: 2024/05/02
51: G01B; G01C
71: CHINA RAILWAY TUNNEL GROUP CO., LTD., CHINA RAILWAY TUNNEL GROUP ROAD & BRIDGE ENGINEERING CO., LTD., JILIN UNIVERSITY, CHINA RAILWAY TUNNEL GROUP BEIJING CTG CONSTRUCTION CO., LTD., CHINA RAILWAY INVESTMENT GROUP CO., LTD., CHINA RAILWAY TUNNEL BUREAU GROUP JILIN ENGINEERING CO., LTD.
72: SUN, LIANG, ZHANG, QIANJIN, LIU, SHI, XIA, ZENGYIN, QIN, LING, JIANG, WEI, HE, ZHANJIANG, DONG, FAZHU, LI, YANG, LIU, BAOCHENG, LI, QIUYUAN, WEI, YAHUI, XIA, YANG, QIAO, YONGWEI, GONG, YAFENG, LIU, XIN, CHEN, MINGSHENG, YAO, JIANDONG, XIAO, HONGJIA, TAN, GUOJIN, WANG, XIAOPU, SUN, HE
33: CN 31: 202211387854.0 32: 2022-11-08

54: MONITORING AND EARLY WARNING METHOD BASED ON BOTDA FOR TUNNEL OPERATION

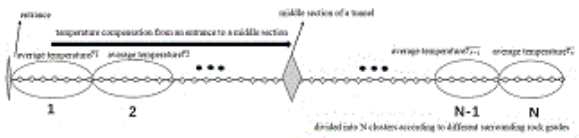
00: -

A monitoring and early warning method based on BOTDA for tunnel operation , due to the BOTDA mainly monitors a temperature and a strain distribution information of each measuring point in the tunnel, the present application performs a certain data processing on the strain measured at the measuring point, the steps include: arranging a BOTDA optic fiber sensor in a tunnel; extracting strain data from the optic fiber monitoring point; clustering and dividing the monitoring data of each tunnel surrounding rock section, based on a longitudinal strain vector angle between the measurement points obtained from different levels of the tunnel surrounding rock; determining a threshold

for an uneven settlement of the tunnel structure; based on health monitoring data, the threshold judgment is performed on the data to be diagnosed, and whether the uneven settlement occurs in the tunnel is analyzed.



21: 2023/10147. 22: 2023/10/31. 43: 2024/05/02
51: G01B; G01K; G01F
71: CHINA RAILWAY TUNNEL GROUP CO., LTD., CHINA RAILWAY TUNNEL GROUP ROAD & BRIDGE ENGINEERING CO., LTD., JILIN UNIVERSITY, CHINA RAILWAY TUNNEL GROUP BEIJING CTG CONSTRUCTION CO., LTD., CHINA RAILWAY INVESTMENT GROUP CO., LTD., CHINA RAILWAY TUNNEL BUREAU GROUP JILIN ENGINEERING CO., LTD.
72: ZHANG, QIANJIN, SUN, LIANG, WANG, YONGSHENG, XIA, ZENGYIN, LIU, SHI, QIN, LING, MA, YONGLIANG, LIU, BAOCHENG, CHEN, XIAO, JIANG, WEI, JI, XIANG, ZHU, XUEBAI, LI, QIUYUAN, XIA, YANG, QIAO, YONGWEI, GONG, YAFENG, MU, HUAIGANG, XIAO, HONGJIA, CHEN, MINGSHENG, YAO, JIANDONG, TAN, GUOJIN, SUN, HE
33: CN 31: 202211387855.5 32: 2022-11-08
54: TEMPERATURE COMPENSATION METHOD FOR BOTDA MONITORING DATA BASED ON DIFFERENT SURROUNDING ROCK GRADES IN TUNNELS
00: -
Disclosed is a temperature compensation method for BOTDA monitoring data based on different surrounding rock grades in tunnels. BOTDA monitors the temperature and strain distribution information at each measuring point, due to a sensitivity of the BOTDA to an ambient temperature at the measurement point, and a temperature gradient between an entrance and a middle section of the tunnel may affect the monitoring data, the present application has performed a certain data processing for the strain caused by a temperature difference, the steps include: arranging of Brillouin optical time-domain analyzer (BOTDA) fibers in tunnels; extracting the monitoring data in an initial healthy state of the tunnel; classifying the monitoring data based on a transduction support vector machine of Gaussian mixture model (GMM-TRVM), wherein each cluster is composed of the monitoring data from a same surrounding rock grade; further, Kalam filtering algorithm is configured for feature decomposition of the monitoring data, and on the basis, GMM is applied to divide a plurality of clusters for temperature compensation between different measurement points in different surrounding rock intervals.



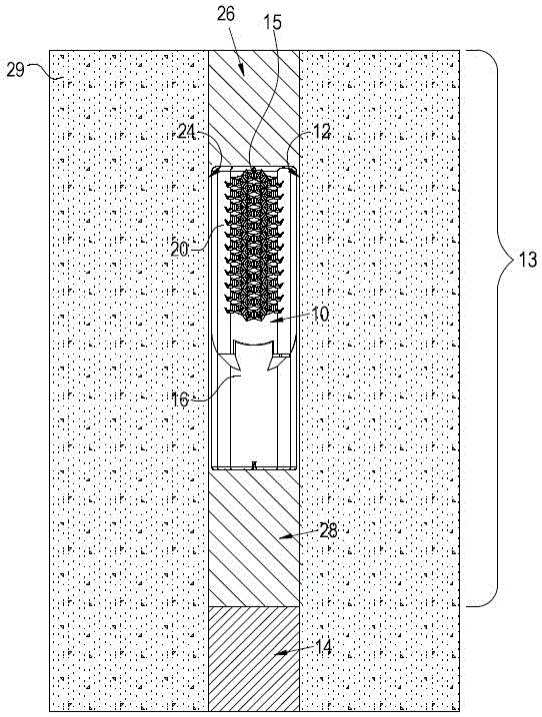
21: 2023/10173. 22: 2023/10/31. 43: 2024/05/03
51: A61B; C11B
71: Givaudan SA
72: GAETA, Giuliano, PROVAN, Alan Forbes, MATHEWS, Imogen Maria, PARKKINEN, Salla Katja Emilia
33: GB 31: 2107716.9 32: 2021-05-28
54: ORAL CARE FLAVOUR FOR IMPROVING HAPPINESS STATE AND METHOD OF ASSESSING
00: -
The present disclosure relates to methods of assessing the ability of a test oral care flavour ingredient or a test oral care flavour composition to improve the happiness state of a human subject and of creating oral care flavour compositions having a positive happy effect on a human subject. It further relates to oral care flavour compositions for improving the happiness state of a human subject, to consumer products comprising such oral care flavour compositions, and to methods of improving the happiness state of a human subject.

21: 2023/10174. 22: 2023/10/31. 43: 2024/05/03
51: A61B; C11B
71: Givaudan SA
72: GAETA, Giuliano, PROVAN, Alan Forbes, GUNASEKARA, Natalie Anuradha T.D.
33: GB 31: 2107716.9 32: 2021-05-28
54: FRAGRANCE FOR IMPROVING INVIGORATION STATE AND METHOD OF ASSESSING

00: -
The present disclosure relates to methods of assessing the ability of a test fragrance ingredient or a test fragrance composition to improve the invigoration state of a human subject and of creating fragrance compositions having a positive activation effect on a human subject. It further relates to fragrance compositions for improving the invigoration state of a human subject, to consumer products comprising such fragrance compositions, and to methods of improving the invigoration state of a human subject.

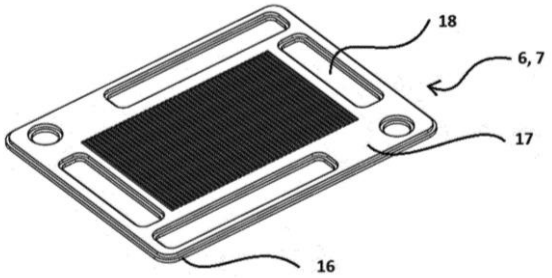
21: 2023/10175. 22: 2023/10/31. 43: 2024/05/03
51: A61B; C11B
71: Givaudan SA
72: GAETA, Giuliano, PROVAN, Alan Forbes, MATHEWS, Imogen Maria, PARKKINEN, Salla Katja Emilia
33: GB 31: 2107716.9 32: 2021-05-28
54: ORAL CARE FLAVOUR FOR IMPROVING INVIGORATION STATE AND METHOD OF ASSESSING
00: -
The present disclosure relates to methods of assessing the ability of a test oral care flavour ingredient or a test oral care flavour composition to improve the invigoration state of a human subject and of creating oral care flavour compositions having an invigorating effect on a human subject. It further relates to oral care flavour compositions for improving the invigoration state of a human subject, to consumer products comprising such oral care flavour compositions, and to methods of improving the invigoration state of a human subject.

21: 2023/10183. 22: 2023/10/31. 43: 2024/05/07
51: F42D
71: LOGANATHAN, Vinesh
72: LOGANATHAN, Vinesh
33: ZA 31: 2021/03117 32: 2021-05-10
54: WEDGING ARRANGEMENT TO PLUG A BLAST HOLE
00: -
The invention relates to a wedging arrangement to plug a blast hole accommodating an explosive charge. The wedging arrangement comprises a body comprising a first part and a second part arranged to angularly slide relative to each other. Each of the first and second parts defines a holding arrangement for holding the first and second parts relative to each other. The wedging arrangement is configurable between a default configuration in which the holding arrangement holds the first and second parts relative to each other, and a stressed configuration in which the body is subjected to external stress forces thereby causing the holding arrangement to be disengaged to allow the first and second parts to angularly slide relative to each other, in use to locate and lock the wedging arrangement in place within the blast hole in order to plug the blast hole and contain the blast energy resulting from the explosive charge being detonated.

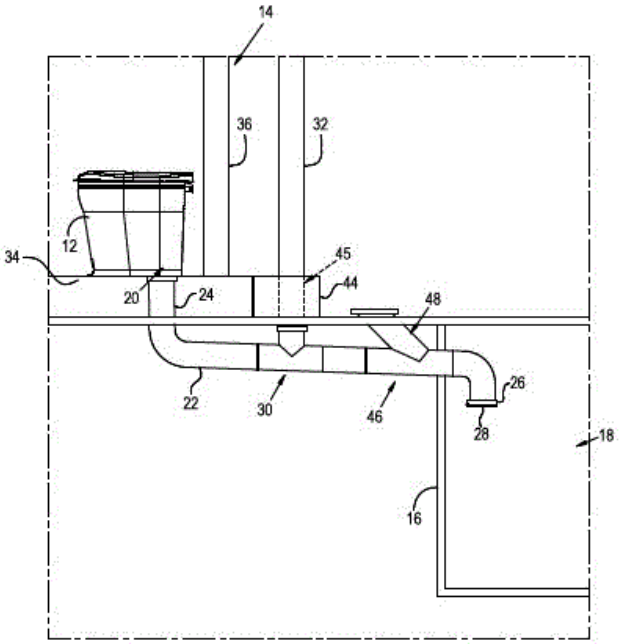


21: 2023/10243. 22: 2023/11/02. 43: 2024/05/09
51: C25B; H01M
71: L'Air Liquide, Societe Anonyme pour l'Etude et l'Exploitation des Procedes Georges Claude
72: SIRAC, Denis, ANDRÉ, Johan
33: FR 31: 2103580 32: 2021-04-08
54: BIPOLAR PLATE FOR A FUEL CELL STACK OR AN ELECTROLYZER STACK
00: -
The invention relates to a bipolar plate (6, 7) for a fuel cell, comprising an anode plate (16) and a cathode plate (17) assembled to each other, the anode plate (16) having a first opening for the

passage of a second fluid, the cathode plate (17) comprising a second opening for the passage of the second fluid, the first opening and the second opening being opposite each other in order to form a manifold (18) allowing the second fluid to pass through the bipolar plate (6, 7), the first opening and the second opening having distinct dimensions so that at least a portion of the peripheral ends of the first and second openings are offset relative to each other in the plane of the bipolar plate (6, 7).



21: 2023/10353. 22: 2023/11/07. 43: 2024/05/10
51: A47K; E03D
71: BETRAM (PROPRIETARY) LIMITED
72: FOURIE (Jnr), Lukas Pieter
33: ZA 31: 2022/12251 32: 2022-11-10
54: Toilet Installation
00: -
The invention provides a toilet installation which includes a toilet pedestal and a subterranean pit. The pedestal has a downwardly direct outlet and flow path defining means in the form of a pipe is connected at a first end to the outlet of the pedestal. The pipe extends downwardly from the first end and terminates in a second end which is positioned in the cavity formed by the pit. A non-return valve is mounted to the pipe to permit the discharge of matter from the second end of the pipe. A vent pipe is connected in flow communication with the flow path defined by the pipe at a position between the first and second ends.



21: 2023/10354. 22: 2023/11/07. 43: 2024/05/10
51: A63B
71: BOTHA, Arno
72: BOTHA, Arno
54: HAMSTRING COMPRESSION DEVICE
00: -
A hamstring compression device for use by a user of the device is proivded, the hamstring compression device comprising an elongate support; a pair of handles rotatably fitted to the ends of the elongate support, the handles being movable between an uncompressed position, in which the handles are substantially in line with the elongate support, and a compressed position, in which the handles extend transversely relative to the elongate support; and a compression member extending between the pair of handles, to define a receiving zone between the compression member and the elongate member to accommodate the user's upper leg, so that in the uncompressed position, the user's upper leg is loosely accommodated within the receiving zone, and in the compressed position, the compression member presses against the user's upper leg, so as to compress the user's hamstring.

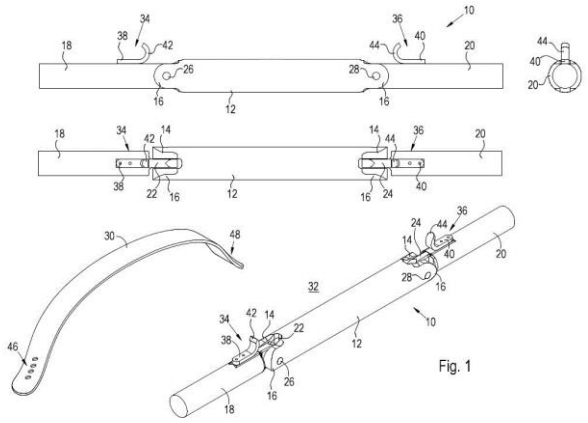


Fig. 1

21: 2023/10369. 22: 2023/11/07. 43: 2024/05/10
51: B22F; C22B
71: Helios Project Ltd.
72: HAUSNER, Jonathan, GEIFMAN, Jonathan, ELIAD, Linoam, GOFER, Yossi, HIRSH, Baruch, LORI, Oran
33: US 31: 63/221,501 32: 2021-07-14
54: A PROCESS FOR TRANSITION METAL OXIDE REDUCTION
00: -
The present disclosure generally relates to processes for the reduction of transition metals using alkali metals to produce reduced transition metals.

21: 2023/10373. 22: 2023/11/07. 43: 2024/05/10
51: A01G; G01S
71: VALMONT INDUSTRIES, INC.
72: MOELLER, Mark A., THATCHER, Tracy, A.
33: US 31: 63/213,345 32: 2021-06-22
54: SYSTEM, METHOD AND APPARATUS FOR COMPUTING AND MANAGING THE FLOW RATE WITHIN AN IRRIGATION CORNER ASSEMBLY
00: -
The present invention provides a system and method for calculating the water flow rates applied by corner arm sprinklers. According to a first embodiment, the present invention provides a system and method for controlling and balancing the flow rates of corner arm sprinklers to provide targeted discrete, controlled uniform and non-uniform water distribution rates across a given field.

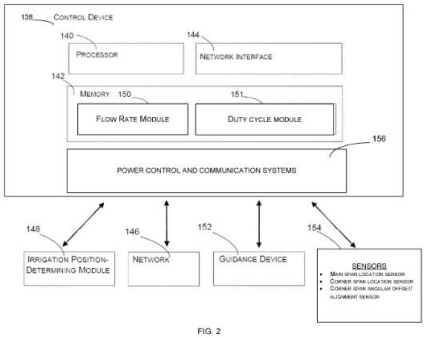
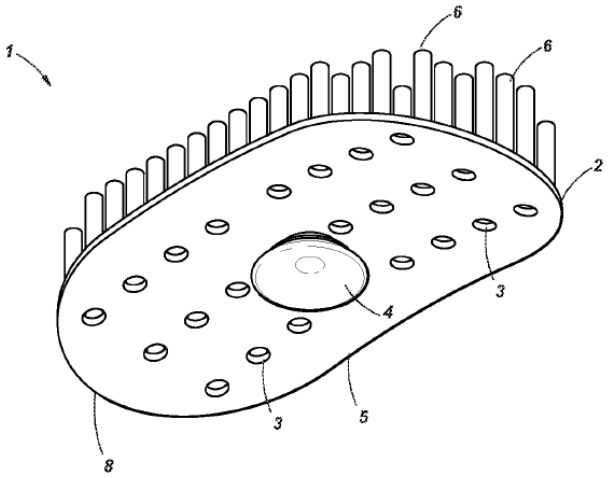


FIG. 2

21: 2023/10397. 22: 2023/11/08. 43: 2024/05/13
51: B01J; C10L; F23G; F23K
71: The Trustees for the time being of the KMN FULFILMENT TRUST
72: MAKGERU, Kabu Walter
33: ZA 31: 2021/05246 32: 2021-07-26
54: FUEL COMPOSITION FOR COMBUSTION
00: -
A fuel composition for combustion according to claim 1, the fuel composition comprising a hydrocarbon-based fuel and magnetite material comprising magnetite. The magnetite material is in the form of powder with a size range from 1 nm – 1 mm. The magnetite material is 0.1–80% wt of the fuel composition. The magnetite material comprises at least 40% magnetite (Fe3O4) and has at least 25% Fe (iron).

21: 2023/10411. 22: 2023/11/08. 43: 2024/05/13
51: A47K; A61L; E03D
71: KUIPERS, Ronny
72: KUIPERS, Ronny
33: ZA 31: 2021/03699 32: 2021-05-31
54: MULTI PURPOSE URINAL MAT
00: -
This invention relates to a urinal mat, more particularly a urinal anti-splash mat configured to grip a surface of a urinal or toilet. The urinal mat includes a base with apertures therein, a surface engager, in the form of a suction cup, forms part of a lower side of the base. In use, the urinal mat is placed in a section of the collection area of a urinal. The base covers part of the collection area of the urinal and cylindrical baffles protrude from an upper side of the base to assist in decelerating and to disperse a urine stream as it collides with the baffles.



21: 2023/10570. 22: 2023/11/14. 43: 2024/05/14
51: G06Q; H02J
71: Syngenta Crop Protection AG
72: FLEMING, Christopher
33: US 31: 63/191,516 32: 2021-05-21
54: COMPOSITIONS AND METHODS FOR CONTROLLING INSECTS
00: -
Novel pesticidal polypeptides that are active against lepidopteran insect pests are disclosed. Nucleic acid molecules encoding the novel insecticidal proteins are also provided. The nucleotide sequences encoding the pesticidal polypeptides can be used to transform prokaryotic and eukaryotic organisms to express the insecticidal proteins. Methods of making the insecticidal proteins and methods of using the insecticidal proteins, for example in transgenic plants to confer protection from insect damage, are also disclosed.

21: 2023/10576. 22: 2023/11/14. 43: 2024/05/27
51: C02F
71: FEFERBERG, ILAN
72: FEFERBERG, ILAN
33: IL 31: 282894 32: 2021-05-03
54: FUME HARVESTING AND ACCUMULATION SYSTEM, METHOD AND EXTRACT FOR DISSOLVING IN A TINCTURE
00: -
Fume extract extracted by a fume-dissolution harvesting and accumulation system for accumulating in a tincture featuring at least one sonic cavitation device configured to exert cavitation effect in a solvent-fume mix, and a fume generating compartment for burning and/or vaporizing fume-releasing source-material configured to produce a portion of the fume at burning temperatures, and another portion at evaporation temperatures. Corresponding method is provided.

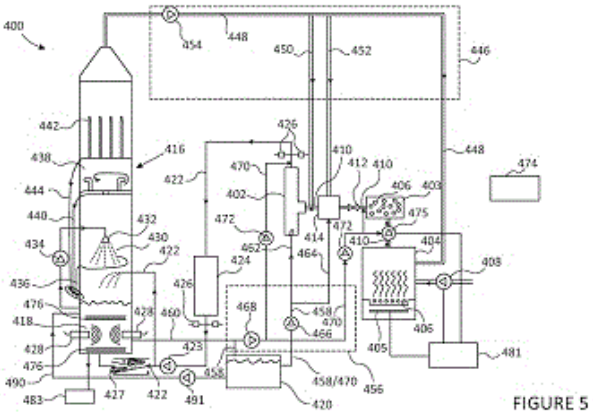
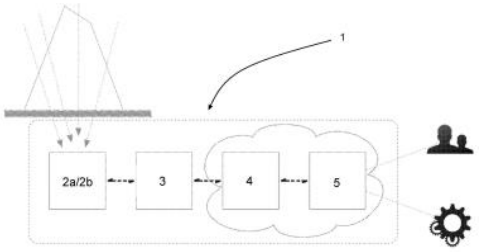


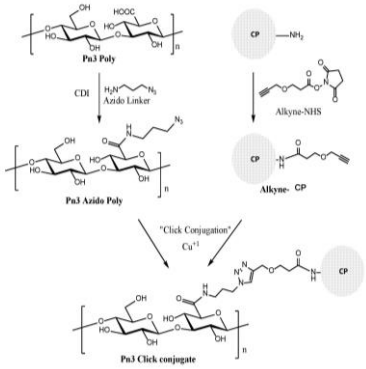
FIGURE 5

21: 2023/10609. 22: 2023/11/15. 43: 2024/05/17
51: G01N; G01T; G01V
71: Konker Innovation LTDA.
72: GOMEZ GONZALEZ, Luis Fernando, MASCAGNI FERDINANDO, Erick, JUNQUEIRA MARTINS, Alexandre Luiz
33: BR 31: 1020210106204 32: 2021-05-31
54: MUON TELESCOPE AND NEUTRON DETECTOR, SYSTEM FOR MEASURING AND CHARACTERIZING LARGE VOLUMES, AND METHODS
00: -
The present invention relates to the structural design and functions of a muon telescope (21) and a neutron detector (23 and 24), and to a system (1) for measuring and characterizing large volumes, comprising at least one muon telescope, and also a method for automatically calibrating a muon telescope (21), a method for three-dimensional reconstruction of mass and/or volume using the record of passes of muons passing through, captured by a muon telescope, a method for inferring total mass and/or volume using as data the muon rate captured by a muon telescope (21) recorded next to or below an observed object, and also a method for inferring absolute or differential density using as data the muon rate captured by a muon telescope (21) recorded next to or below the observed object, a system for measuring neutrons associated with the muon telescope, allowing the detection of the integral and/or directional

atmospheric neutron flux, and a method for inferring the quantity of water/moisture or hydrocarbons in the studied volume on the basis of the neutron flux data.



21: 2023/10611. 22: 2023/11/15. 43: 2024/05/17
51: A61K
71: Pfizer Inc.
72: ANDERSON, Annaliesa Sybil, GALLAGHER, Caitlyn, GU, Jianxin, KANEVSKY, Isis, KIM, Jin-Hwan, MORAN, Justin Keith, SINGH, Suddham, SURENDRAN, Naveen
33: US 31: 63/194,641 32: 2021-05-28
54: IMMUNOGENIC COMPOSITIONS COMPRISING CONJUGATED CAPSULAR SACCHARIDE ANTIGENS AND USES THEREOF
00: -
The present invention relates to new conjugated capsular saccharide antigens (glycoconjugates), immunogenic compositions comprising said glycoconjugates and uses thereof.



21: 2023/10628. 22: 2023/11/16. 43: 2024/05/17
51: B60K; B60R
71: HARDCORE AUTOMOTIVE LOCKING TECHNOLOGIES (PTY) LTD
72: TALJAARD, Philippus Petrus Erasmus
54: CONTROLLING AN ANTI-THEFT DEVICE
00: -
This invention relates to a vehicle anti-theft device 10 and to methods of controlling such a device. The device 10 includes an electronic control unit 12, an actuator 11, and a locking member 13 which is movable between open and locked positions. The device further includes a dash or instrument panel mounted switch 14 which is hard-wired to the ECU 12. In-cabin depression of the switch 14 can overcome remote jamming and lock the device to prevent vehicle theft. The vehicle anti-theft device 10 is further characterized in that operation of the switch 14 cannot result in the unlocking of the locking member 13. Therefore, if unauthorised access to the vehicle cabin is gained, the switch 14 cannot be used to unlock the device. The device also includes an auto-lock feature, upon vehicle turn off, and the switch can operate as a panic button if depressed for example 5 seconds.

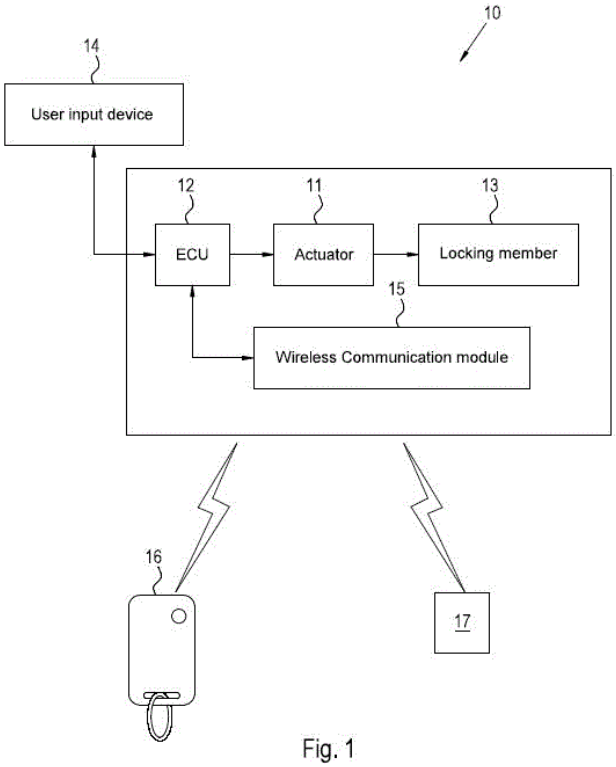


Fig. 1

21: 2023/10643. 22: 2023/11/16. 43: 2024/05/17
51: H04L; H04W
71: TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
72: ZOU, Zhenhua, BERGQVIST, Jens, WALLENTIN, Pontus
33: US 31: 63/229,570 32: 2021-08-05
54: HANDLING OF MEDIUM ACCESS CONTROL (MAC) ENTITY DURING SECONDARY CELL GROUP (SCG) DEACTIVATION/REACTVATION

00: -
Embodiments include methods for a user equipment (UE) configured to communicate with a wireless network via a plurality of cell groups (e.g., MCG and SCG). Such methods include, upon deactivating one of the cell groups (e.g., SCG), suspending a medium access control (MAC) entity associated with the deactivated cell group and performing one or more first operations on the MAC entity upon the suspension of the MAC entity. Such methods also include, while the MAC entity is suspended, performing one or more second operations related to reporting of uplink (UL)data available for transmission via the deactivated cell group. Such methods also include, upon reactivating the deactivated cell group, performing one or more third operations on the MAC entity and resuming the MAC entity based on the one or more third operations. Other embodiments include UEs configured to perform such methods.

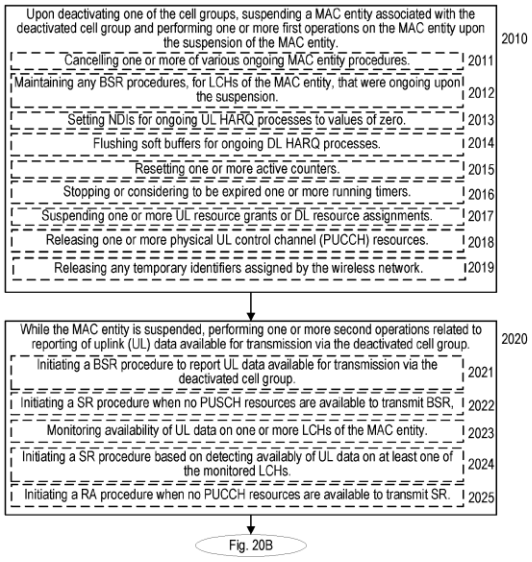


FIG. 20A

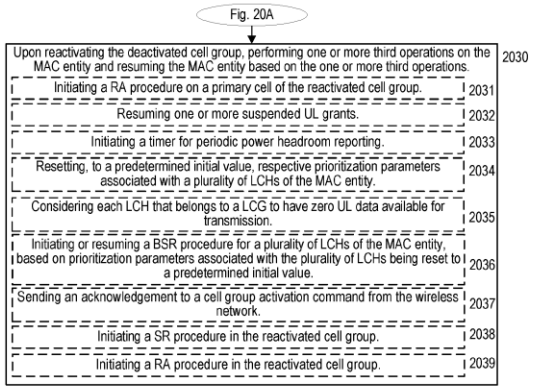
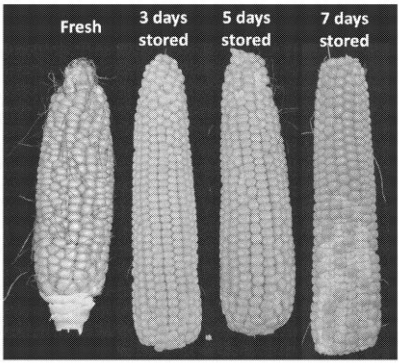


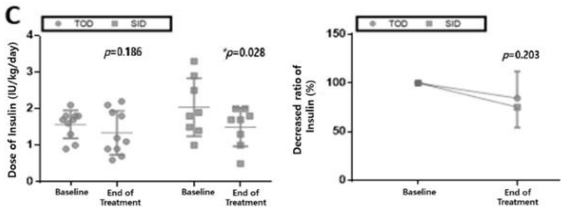
FIG. 20B

21: 2023/10721. 22: 2023/11/20. 43: 2024/05/21
51: A01D; A01H; A01N
71: Syngenta Crop Protection AG
72: DINWIDDIE, Jay Austin, HILL-SKINNER, Sarah, CARTER, Jared
33: US 31: 63/214,384 32: 2021-06-24
54: MAIZE POLLEN STORAGE AND CARRIER
00: -
Maize pollen is notoriously fragile and susceptible to degradation unless adequately stored. Unlike some tree pollen, which can be quite hardy and capable of successful fertilization for months or years after it is shed, maize pollen remains viable for mere hours after shedding before it begins to degrade. Described here is an invention for storing maize pollen where the pollen is collected and stored in a refrigerated, but not frozen, environment. Pollen

stored as described herein may remain viable for twelve days, or two weeks, or longer. Adding a carrier compound can extend viability of the pollen.

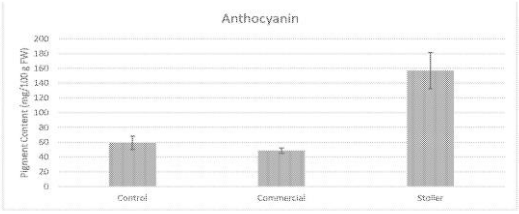


21: 2023/10748. 22: 2023/11/21. 43: 2024/05/21
51: A61K; A61P
71: DAEWOONG PHARMACEUTICAL CO., LTD.
72: HUH, Wan, LIM, Hyun Woo, CHOI, Ji Soo, HAN, Ju Mi, PARK, Joon Seok
33: KR 31: 10-2021-0065733 32: 2021-05-21
54: PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING DIABETES MELLITUS IN ANIMAL OF FAMILY CANIDAE, COMPRISING ENAVOGLIFLOZIN
00: -
The present invention relates to a pharmaceutical composition for preventing or treating diabetes mellitus in an animal of the family Canidae, including enavogliflozin as an active ingredient. The pharmaceutical composition, of the present invention, including enavogliflozin as an active ingredient exhibits an excellent blood glucose level control effect and thus can be effectively used for treating diabetes mellitus in an animal of the family Canidae.

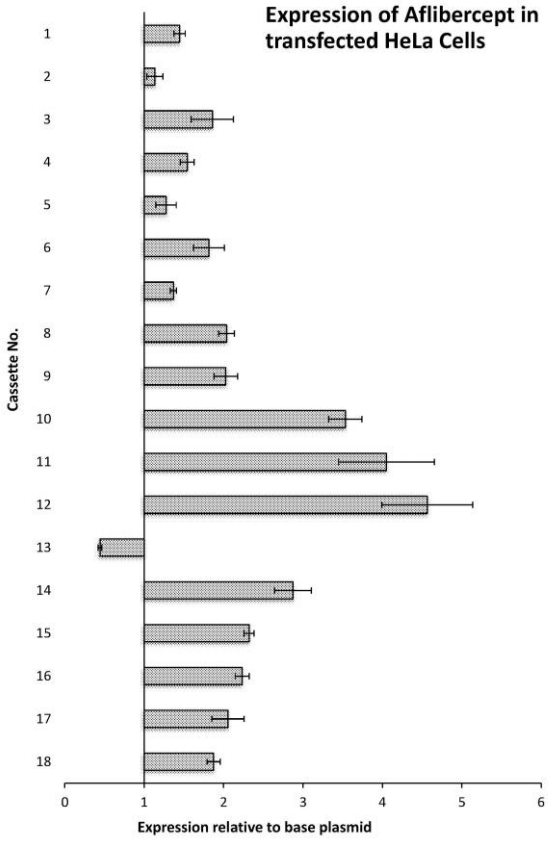


21: 2023/10755. 22: 2023/11/21. 43: 2024/05/21
51: A61K; A61P
71: Pfizer Inc.
72: ALLEN, Pirada Suphaphiphat, BADKAR, Advait Vijay, DARVARI, Ramin, DORMITZER, Philip Ralph, DUDA, Mark, JANSEN, Kathrin Ute, VAN GEEN HOVEN, Christina
33: US 31: 63/183,624 32: 2021-05-03
54: IMMUNOGENIC COMPOSITION AGAINST INFLUENZA
00: -
The invention relates to compositions and methods for the preparation, manufacture and therapeutic use ribonucleic acid vaccines comprising polynucleotide molecules encoding one or more influenza antigens, such as hemagglutinin antigens.

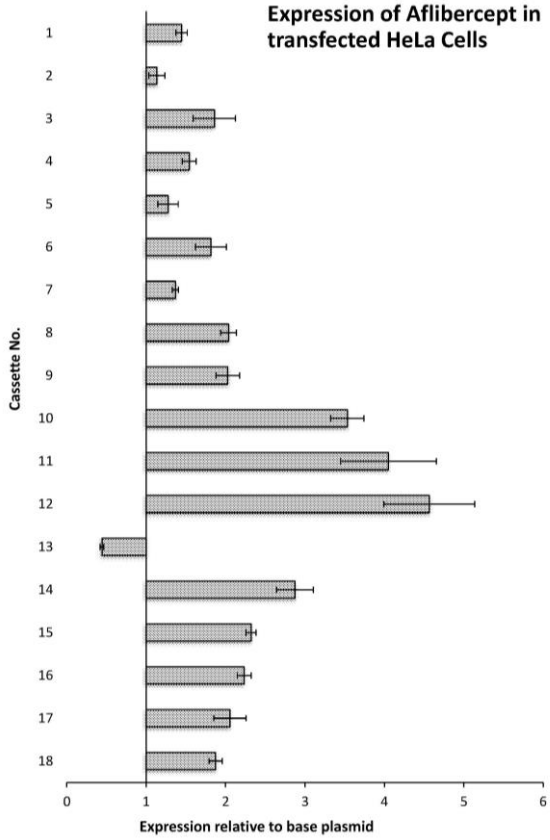
21: 2023/10760. 22: 2023/11/21. 43: 2024/05/21
51: A01N; C05G
71: Stoller Enterprises, Inc.
72: SHETH, Ritesh Bharat, DOLLAR, Maria, GONZALEZ, Francisco Javier Maldonado
33: US 31: 63/184,963 32: 2021-05-06
54: STABLE S-(+)-ABSCISIC ACID NONAQUEOUS LIQUID SOLUTIONS
00: -
Stable S-(+)-abscisic acid (S-ABA) non-aqueous liquid solutions are generally achieved without the use of an effective amount of an antioxidant and/or an ultraviolet absorber to S-(+)-abscisic acid. In a preferred embodiment, the stable S-(+)-abscisic acid (S-ABA) nonaqueous liquid solutions includes at least one organic solvent, such as at least one polyethylene glycol, at least one glycol, and/or at least one lactamide and/or at least one pentanoate.



21: 2023/10779. 22: 2023/11/22. 43: 2024/05/22
51: C12N
71: Adverum Biotechnologies, Inc.
72: KERAVALA, Annahita
33: US 31: 62/472,892 32: 2017-03-17
54: COMPOSITIONS AND METHODS FOR ENHANCED GENE EXPRESSION
00: -
The present disclosure provides polynucleotide cassettes, expression vectors and methods for the expression of a gene in mammalian cells.

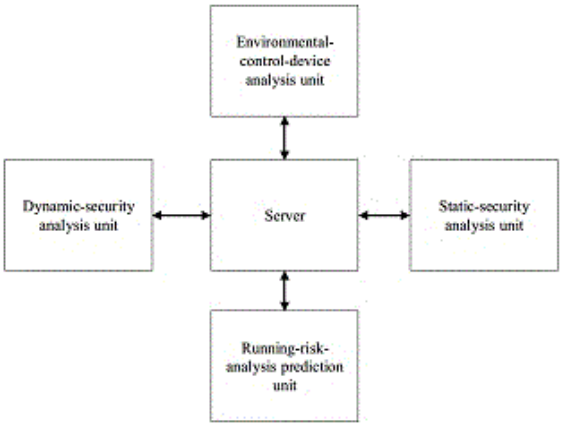


21: 2023/10780. 22: 2023/11/22. 43: 2024/05/22
51: C12N
71: Adverum Biotechnologies, Inc.
72: KERAVALA, Annahita
33: US 31: 62/472,892 32: 2017-03-17
54: COMPOSITIONS AND METHODS FOR ENHANCED GENE EXPRESSION
00: -
The present disclosure provides polynucleotide cassettes, expression vectors and methods for the expression of a gene in mammalian cells.



21: 2023/10782. 22: 2023/11/22. 43: 2024/05/22
51: G06Q
71: KERUITE (XIAMEN) PURIFICATION TECHNOLOGY CO., LTD
72: LI, HUAXIN
33: CN 31: 2023104018287 32: 2023-04-14
54: DIGITAL PLATFORM FOR SECURE OPERATION-AND-MAINTENANCE OF CLEAN ROOM BASED ON INTERNET OF THINGS
00: -
The present invention relates to secure operation-and-maintenance of clean room technologies, in particular to a digital platform for secure operation-and-maintenance of a clean room based on internet of things. The present invention solves technical problems in the prior art that the clean room cannot be detected accurately and operation-and-maintenance control cannot be performed in time due to the fact that a dynamic security analysis and a static security analysis cannot be performed on the clean room. The digital platform performs the static security analysis on the clean room in the non-use process, thereby ensuring working efficiency in the

clean room and improving the environment protection efficiency of the clean room. The digital platform also performs the dynamic security analysis on the clean room in the running process, thereby preventing the environment in the clean room from being affected due to risk actions existing during the use of workers.

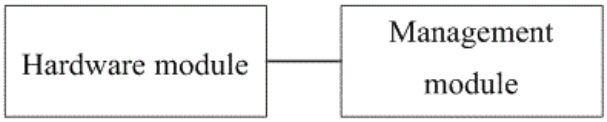


21: 2023/10860. 22: 2023/11/24. 43: 2024/06/21
51: A01G
71: Anhui Science And Technology University
72: Zhang Wei, Wang Chaofan, Wang qiudi, Wang yukun, Xie Junyi, Wang weizhe
54: AN EVALUATION METHOD OF ECOLOGICAL SUITABILITY OF AGRICULTURAL LAND
00: -
The invention discloses an agricultural land ecological suitability evaluation method and relates to the technical field of agricultural land ecological suitability evaluation. The invention includes determining various index values of agricultural land. Each index value of agricultural land includes slope, elevation, slope length, section curvature, soil layer thickness, plane curvature, shortest continuous flooding days, longest continuous flooding days, and cumulative flooding days, average number of continuous flooding days, minimum flooding depth, maximum flooding depth, cumulative flooding depth, and average flooding depth. This invention ensures that agricultural land can ensure the sustainability of the ecosystem and environment by analyzing the natural ecology of agricultural land, that is, whether regional water, soil, and climate conditions meet the ecological needs of agricultural land, and can quickly and accurately identify its ecological status, and determine the weight of each indicator in the element layer, and ultimately build an ecological suitability evaluation system for agricultural land. This method can reflect the ecological suitability of agricultural land in a timely, macroscopic and dynamic manner.

21: 2023/10867. 22: 2023/11/24. 43: 2024/05/27
51: A61K; A61P; C07K
71: The United Bio-Technology (Hengqin) Co., Ltd.
72: HUANG, Liang, CAO, Chunlai, DENG, Huixing, ZHOU, Cui, HE, Xiuyi, LIU, Xiaoxiao, XIE, Xin
33: CN 31: 202110576591.7 32: 2021-05-26
54: MULTI-AGONIST AND USE THEREOF
00: -
The present invention relates to the fields of medicine and biology, particularly relates to a triagonist polypeptide compound of general formula (I) or a salt or a solvate thereof, which compound has triple agonism activity on a glucagon-like peptide-1 receptor (GLP-1 R), a glucose-dependent insulinotropic polypeptide receptor (GIP R) and a glucagon receptor (GCG R), and relates to the use thereof in the treatment of metabolic syndrome.

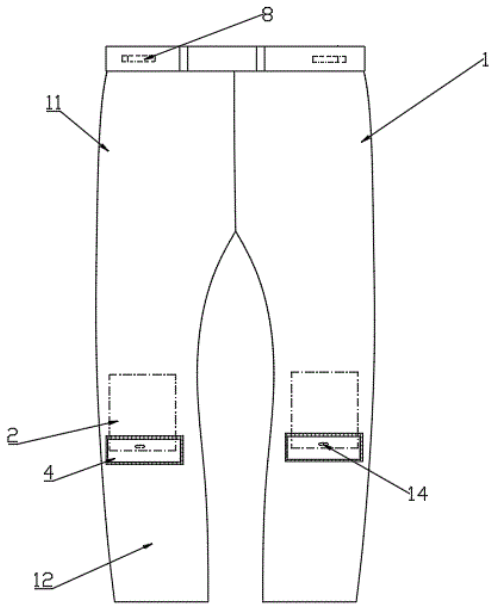
21: 2023/10895. 22: 2023/11/27. 43: 2024/06/21
51: G07C
71: JIAXING VOCATIONAL AND TECHNICAL COLLEGE
72: FU, Daiwei, WU, Rongsen, ZHANG, Xiangdong, GONG, Haoyu
54: SAFE ACCESS CONTROL MANAGEMENT SYSTEM FOR STUDENTS
00: -
Disclosed is a safe access control management system for students. The safe access control management system for students includes a hardware module and a management module, where the hardware module and the management module perform data interaction; the hardware module includes an access control unit, access control cards and a warning unit, the access control unit is configured to read the access control cards, so as to determine whether the current access control cards match the current access control unit, if yes, the access control unit performs door opening action, and if not, the access control unit does not perform the door opening action; and the warning unit is configured to send warning information to personnel holding the access control cards when the

number of times that the access control cards do not match the access control unit exceeds preset number.



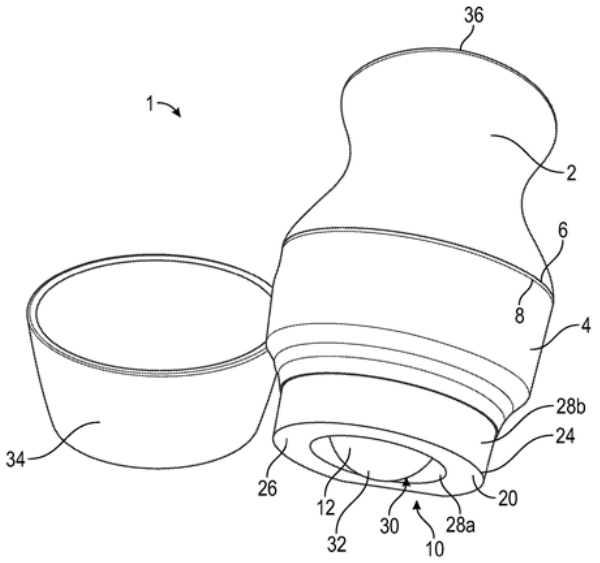
21: 2023/10898. 22: 2023/11/27. 43: 2024/06/21
51: A41D
71: Harbin Medical University
72: Liwen Sun
54: PANT SUITABLE FOR PATIENTS WITH URETER ABDOMINAL WALL STOMA
00: -

The invention discloses a pant suitable for patients with ureter abdominal wall stoma; the inside of at least one pant leg is provided with a storage bag; the joint between the upper pant body and the pant legs is located below the corresponding knee of the pant body; the inner side of the belt is provided with a first fixing belt; the pant leg is provided with a first through hole at the position corresponding to the lower end of the accommodation bag. The invention can realize the hidden placement of the urine bag through the storage bag located inside the pant body, thereby avoiding the embarrassment caused by the urine bag being exposed when the patient goes out or gets out of bed for activities; the removable pant legs and upper pant body are convenient for patients to put on and take off.

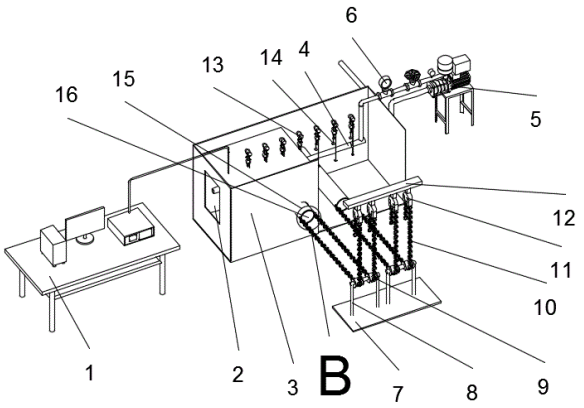


21: 2023/10915. 22: 2023/11/27. 43: 2024/05/30
51: A45D
71: Solar Buddies Limited
72: ASPLAND, KELLI JAYNE, WATERS, LAURA JAYNE
33: US 31: 17/384,927 32: 2021-07-26
54: SKIN LOTION DISPENSER
00: -

The present invention relates to a refillable skin lotion dispenser comprising: a refillable lotion housing having an openable collar located at or adjacent a first end thereof. The collar comprising: a dispensing valve configured to dispense lotion therethrough under gravity; and an annular sponge permanently secured to the collar and configured to surround the dispensing valve so as to be operative to spread dispensed lotion over an area of skin.



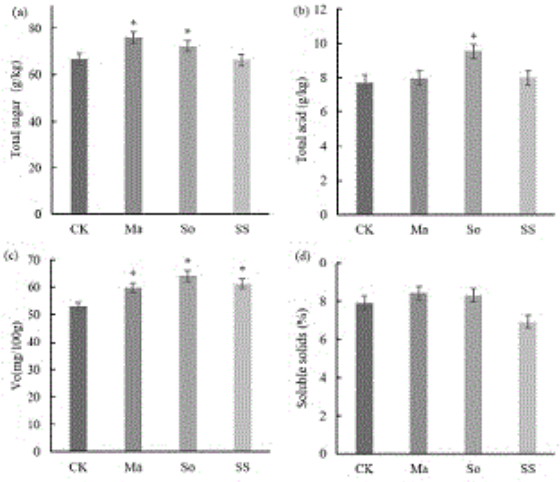
21: 2023/10919. 22: 2023/11/27. 43: 2024/05/30
51: G01N
71: Anhui University of Science and Technology
72: SHI Xin, RONG Chuanxin, CHENG Hua, WANG Houliang, YAO Zhishu, CAI Haibing, CUI Linzhao, LI Mingjing, WANG Bin, SHI Hao
33: CN 31: 2022105105131 32: 2022-05-11
54: DEVICE AND METHOD FOR SIMULATING UNDERGROUND PIPELINE LEAKAGE DURING SHIELD CONSTRUCTION
00: -
The invention relates to the technical field of tunnel construction, in particular to a device and a method for simulating underground pipeline leakage during shield construction. The device comprises an experimental box, wherein the side wall of the experimental box is provided with an observation part, the top of the experimental box is provided with a loading part, and two shield simulation parts are arranged in the experimental box, which are parallel to each other and located on the same plane, and the shield simulation parts are fixedly connected with a power part. A pipeline is arranged in the experimental box, the side wall of the pipeline is provided with a plurality of leakage holes, and one end of the pipeline is communicated with a water supply part. The pipeline is located above the shield simulation parts and around the pipeline. The invention can accurately simulate underground pipeline leakage, leakage pipeline deformation and stratum settlement during shield construction.



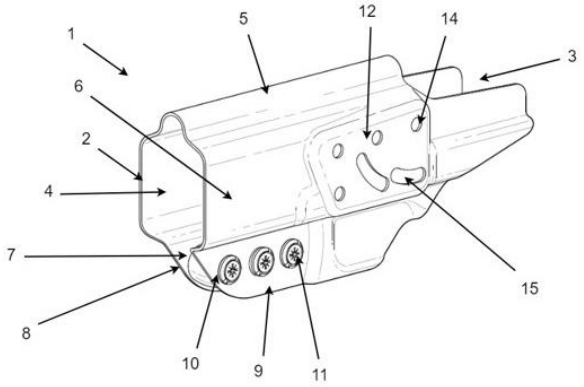
21: 2023/10947. 22: 2023/11/28. 43: 2024/06/21
51: H01M
71: Taishan University
72: TAN, Qinglong, WANG, Mingjuan, HAN, Yinfeng, ZHAO, Fei
54: AMPHOTERIC ION CONDUCTING MEMBRANE FOR FLOW BATTERY, PREPARATION METHOD THEREFOR, AND FLOW BATTERY
00: -
Disclosed are an amphoteric ion conducting membrane for a flow battery, a preparation method therefor, and a flow battery. The preparation method includes: grafting haloalkyl alcohol as a “bridge” onto a main polymer chain, then obtaining amphoteric ion monomers through a nucleophilic ring-opening reaction, connecting the amphoteric ion monomers to weak base tertiary amine groups having different densities through a Mitsunobu reaction, finally grafting the amphoteric ion monomers having different densities onto a “bridge”-containing polymer through a Mitsunobu reaction, and obtaining an amphoteric polymer membrane. A strategy of connecting a polymer side chain to a “bridge” is used in a preparation process, mutual aggregation of polymer side chain functional groups is facilitated, a microphase separation structure is formed, and a plurality of functional groups may be grafted onto a site of a polymer skeleton, such that conflicting membrane ionic selectivity and stability are effectively balanced.

21: 2023/10958. 22: 2023/11/28. 43: 2024/05/31
51: A01G; C05F; C05G; A01C
71: NORTHWEST A&F UNIVERSITY
72: GUO, QIAO, LAI , HANGXIAN, XUE , QUANHONG, SUN , CHENYU, ZHANG , MEILIN,

XIAO , LI, LI, JIN, FU, HUIJING, SHU , XIAOLONG, MA, KAIFENG
33: CN 31: 202211525132.7 32: 2022-11-30
54: APPLICATION OF GREEN MANURE BY INCORPORATING UNDECOMPOSED PLANT TISSUES INTO SOIL UNDER CONTINUOUS CROPPING OF STRAWBERRIES
00: -
The invention belongs to the technical field of agricultural planting, and relates to an application of green manure by incorporating undecomposed plant tissues into soil under continuous cropping of strawberries. The metabolome composition in the rhizosphere soil of continuously cropped strawberries can be considerably changed through green manure incorporation. Among three different green manure crops (corn, sorghum, and sorghum sudangrass), the greatest effect is achieved under the corn (Ma) treatment, the effect of green manure incorporation is mainly manifested by regulation of carbohydrate content in root exudates to recruit beneficial microorganisms and a decreased relative content of lipid allelochemicals, which ultimately relieves continuous cropping obstacles of strawberries.



21: 2023/11008. 22: 2023/11/29. 43: 2024/06/27
51: F41C
71: Johan Hendrik Georg van der Merwe
72: Van der Merwe, Johan Hendrik Georg
33: ZA 31: 2022/12980 32: 2022-11-30
54: ADJUSTABLE, INTERCHANGEABLE HOLSTER
00: -
A versatile, passive retention holster comprising a holster body and at least one compatible holster accessory, wherein the holster body is provided with a cavity, configured to realisably receive and retain a preselected handgun frictionally therein. The holster body being provided with a first adjustable attachment formation, located on one side of the holster body, wherein the first attachment formation is dimensioned and configured to render the body operatively securable, adjustably, to the compatible holster accessory; and a second adjustable attachment formation, located on an opposing side of the holster body, relative to the first attachment formation, wherein the second attachment formation is dimensioned and configured to render the body operatively securable, adjustably, to the compatible holster accessory. Wherein the compatible holster accessory is provided with a corresponding attachment formation, dimensioned and configured to render the compatible holster accessory operatively securable to the opposing sides of the holster body.



21: 2023/11033. 22: 2023/11/29. 43: 2024/06/27
51: G06K
71: CENTRAL CHINA NORMAL UNIVERSITY
72: ZHANG, Wei, CHEN, Zengzhao, WANG, Shengming, HE, Xiuling, YI, Baolin, DAI, Zhicheng
33: CN 31: 202110970746.5 32: 2021-08-23
54: METHOD AND SYSTEM FOR MEASURING NON-VERBAL BEHAVIOR OF TEACHER
00: -
A method and system for measuring non-verbal behavior of a teacher. The measurement method comprises: performing three-dimensional modeling on a classroom, analyzing two-dimensional image information of a teaching video, and calculating

three-dimensional coordinates and Euler angles of the teacher's head in each frame of the video to obtain line-of-sight point data of the teacher, and projecting a line-of-sight point in a three-dimensional modeled classroom space to visualize the line-of-sight point of the teacher. The attention distribution of the teacher when teaching is understood by means of analyzing the dispersion and coverage of the line-of-sight point of the teacher; the teaching video is grouped every five frames, head movements of the teacher are analyzed by means of using the Euler angles of the teacher's head, and different teaching behaviors corresponding to continuous head movements are identified, thereby clarifying the teaching style and classroom atmosphere of the teacher.

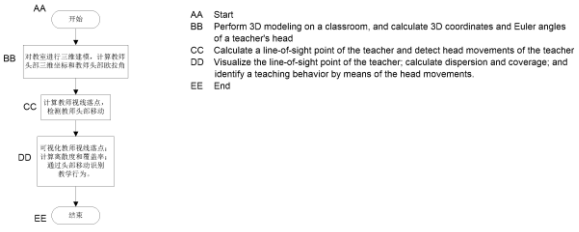
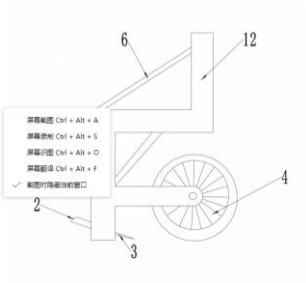


图 1

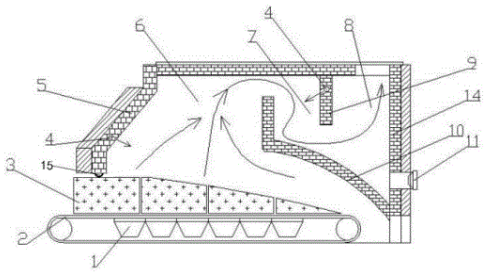
21: 2023/11035. 22: 2023/11/29. 43: 2024/05/30
51: C07D; C07F; A61K; A61P
71: XIZANG HAISCO PHARMACEUTICAL CO., LTD.
72: ZHANG, CHEN, WANG, JIANMIN, ZHAO, CHENFEI, QIAN, GUOFEI, MA, JUNJIE, HUANG, ZHENGGANG, YUAN, SHUAI, HUANG, ANBANG, ZHENG, SHAOLONG, LI, KAI, YU, YAN, YE, FEI, TANG, PINGMING, LI, YAO, NI, JIA, YAN, PANGKE
33: CN 31: 202110651028.1 32: 2021-06-11
33: CN 31: 202110824204.7 32: 2021-07-22
33: CN 31: 202111025788.8 32: 2021-09-03
33: CN 31: 202111214457.9 32: 2021-10-22
33: CN 31: 202210000254.8 32: 2022-01-06
33: CN 31: 202110470748.8 32: 2021-04-30
33: CN 31: 202110570092.7 32: 2021-05-25
54: PHOSPHONYL DERIVATIVE, AND COMPOSITION AND PHARMACEUTICAL APPLICATION THEREOF
00: -
Provided are the compound shown in general formula (I) or a stereoisomer, a deuterated compound, a solvate, a prodrug, a metabolite, a pharmaceutically acceptable salt, or co-crystal thereof, an intermediate thereof, and a use thereof in EGFR-related diseases such as cancer. B-L-K (I)

21: 2023/11055. 22: 2023/11/30. 43: 2024/06/21
51: A01D
71: Anhui Science And Technology University
72: JIANG, Chunxia, ZHANG, Xiaolong, TU, Heping, MIAO, Kangshu
54: CARROT HARVESTING APPARATUS
00: -
The present invention provides a carrot harvesting apparatus, relating to the technical field of agricultural implements, including: a frame, unearthing ploughs, and root digging ploughs, where the frame is configured to be mounted on a tractor; a plurality of unearthing ploughs and root digging ploughs are provided; the bottom of the frame is provided with a mounting beam, and the unearthing ploughs and the root digging ploughs are both provided on the mounting beam; one unearthing plough corresponds to one root digging plough; the root digging plough extends forward and downward from the mounting beam, and the unearthing plough extends rearward and upward from the mounting beam; the top of the unearthing plough is a smooth cambered surface structure. The solution provided by the present invention is suitable for small-scale farmers to use and improves the harvest efficiency of small-scale farmers.

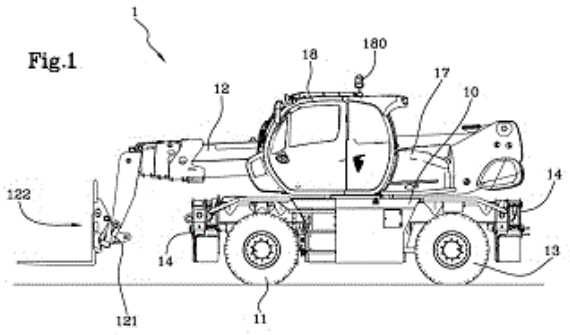


21: 2023/11056. 22: 2023/11/30. 43: 2024/06/21
51: F23M
71: HENAN BOILER AND PRESSURE VESSEL INSPECTION TECHNOLOGY RESEARCH INSTITUTE, Henan Agricultural University, Henan Province Sitong Boiler Co., Ltd.
72: MA, Jiangdong, LIU, Shengyong, SUN, Zhongren, LU, Jie, WEN, Ping, ZHAO, Xiangnan, QING, Chunyao, MA, Jiang, FENG, Kun, FENG, Shaohua, HUANG, Li, TAO, Hongge, WANG, Jiong, QIN, Lichen, FENG, Wei, MA, Zongguang, ZHANG, Pin, LI, Dongdong, YU, Shaoying, MA, Zhuohui, LIU, Tingting, XU, Yanshen
54: ARCH STRUCTURE OF CHAIN-GRATE BOILER USING BALED BIOMASS FUEL

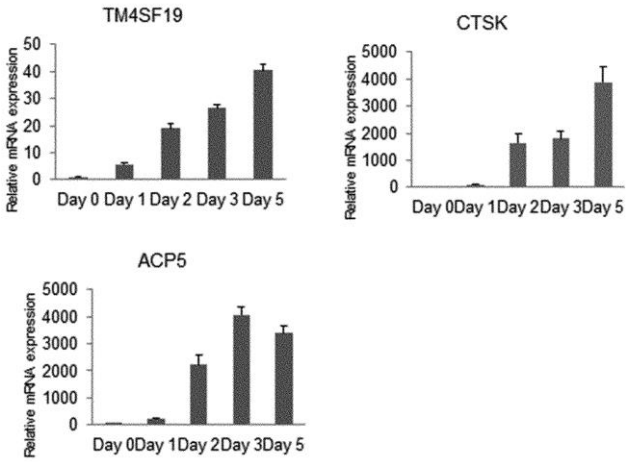
00: -
Disclosed is an arch structure of a chain-grate boiler using baled biomass fuel. The arch structure includes a front arch, a middle arch and a rear arch which are arranged above a chain grate stoker, where the middle arch is composed of a vertical flame folding wall, and the rear arch is composed of an arch wall and a fire stopping wall; a flue gas channel is reserved between the fire stopping wall and a top wall of a furnace, the fire stopping wall is connected to the arch wall, and a rear end of the arch wall inclines downwards; and a space between the front arch and the rear arch is a first combustion chamber, a space between the rear arch and the middle arch is a second combustion chamber, and a space between the middle arch and the furnace back wall is a third combustion chamber.



21: 2023/11063. 22: 2023/11/30. 43: 2024/05/30
51: B60J
71: MANITOU ITALIA S.R.L.
72: IOTTI, MARCO
33: IT 31: 102022000026658 32: 2022-12-23
54: IMPROVED ROTARY TELEHANDLER
00: -
Described is a rotary telehandler (1) comprising: a carriage (10) movable on wheels; a tower (17) mounted rotatably on said carriage (10); an actuating device configured for rotating said tower (17) with respect to the carriage (10); a pin movable between a first position, wherein the pin prevents a relative rotation between the tower (17) and the carriage (10), and a second position wherein said pin allows a relative rotation between the tower (17) and the carriage (10). The telehandler comprises an electric actuator and a mechanical mechanism connected or connectable to the pin and to the electric actuator; the electric actuator is configured to move, by means of the mechanical mechanism, the pin between the first position and the second position and to apply a pushing force on the pin to keep the pin in the first position for locking the telehandler (1) in an operating condition of road travel wherein the tower (17) is aligned with an axis of the carriage (10).

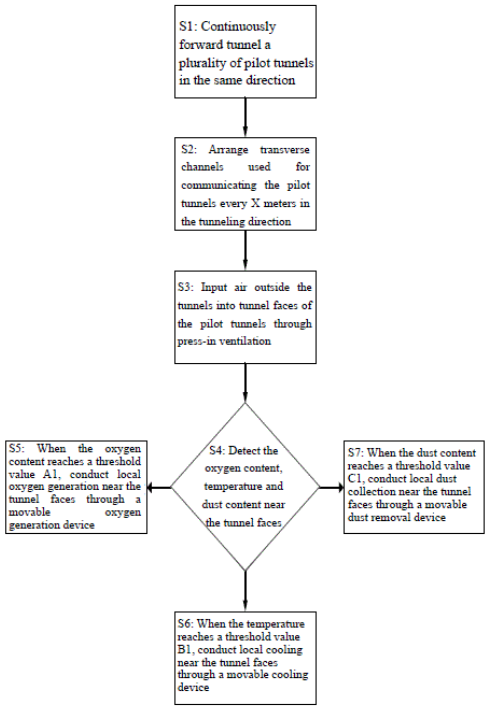


21: 2023/11101. 22: 2023/11/30. 43: 2024/05/30
51: A61K; C12Q; G01N; A61P
71: MEDPACTO INC., KIM, Seong Jin
72: KIM, Seong Jin, PARK, Su Jin, HEO, Jin Sun, HONG, Eun Ji, AN, Hae In, KIM, Min Woo
33: KR 31: 10-2021-0072352 32: 2021-06-03
33: KR 31: 10-2021-0174057 32: 2021-12-07
54: TM4SF19 INHIBITOR AND USES THEREOF
00: -
The present invention relates to a composition for preventing or treating a bone disease, obesity or an obesity-mediated metabolic disease, cancer, or cancer metastasis, and a method of screening a drug for treating the diseases, which includes an inhibitor of transmembrane 4 L six family member 19 (TM4SF19) expression or activity.



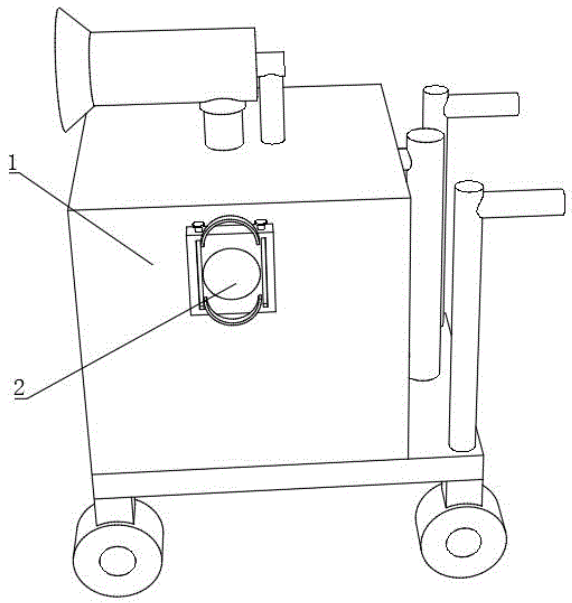
21: 2023/11126. 22: 2023/12/01. 43: 2024/06/27
51: E21F

71: CHINA RAILWAY NO.5 ENGINEERING GROUP CO., LTD., CENTRAL SOUTH UNIVERSITY
72: Sheng XIONG, Debin CHEN, Jun FU, Shifan QIAO, Chuangang FAN
33: CN 31: 202210875759.9 32: 2022-07-25
54: OXYGEN SUPPLY, COOLING AND DUST REMOVAL METHOD FOR TUNNEL CONSTRUCTION
00: -
The present invention discloses an oxygen supply, cooling and dust removal method for tunnel construction. The method includes: continuously forwards tunneling a plurality of pilot tunnels in the same direction; arranging transverse channels used for communicating the pilot tunnels every X meters in the tunneling direction; inputting air outside the tunnels into tunnel faces of the pilot tunnels through press-in ventilation; detecting the oxygen content, temperature and dust content near the tunnel faces; when the oxygen content reaches a threshold value A1, conducting local oxygen generation near the tunnel faces through a movable oxygen generation device; when the temperature reaches a threshold value B1, conducting local cooling near the tunnel faces through a movable cooling device; and when the dust content reaches a threshold value C1, conducting local dust collection near the tunnel faces through a movable dust removal device. In a case that the press-in ventilation mode gradually fails, the operation environment near the tunnel faces is improved in a targeted mode through the movable devices, thereby meeting the construction requirements.



21: 2023/11127. 22: 2023/12/01. 43: 2024/06/27
51: A01M
71: Lu'an Xiangchuan Technology Co., Ltd.
72: Jiyun Shen, Xiuqin Hu
54: AN ELECTROSTATIC SPRAY PLANT PROTECTION ROBOT
00: -
The invention discloses an electrostatic spray plant protection robot, which relates to the technical field of plant protection. The invention comprises a spray component and an external component. The surface of the spray component is fixed and inserted with the end of the external component. The spray component comprises a water tank. The surface of the water tank is fixed and inserted with the end of the external component, and the bottom of the water tank is fixed and connected with a moving base. The back of the water tank is fixed and inserted with a liquid level pipe. When spraying water to protect a small range of plants, the water is injected into the water tank, and the liquid level inside is displayed according to the liquid level pipe. Then it is moved with the help of the moving base, moving to the range of the plant. Start the pump to draw out the water in the tank and discharge it through the outlet pipe. The spring hose is entered into the transfer pipe and then sprayed out in the form of atomization through the spray head at the end of the spray pipe.

When spraying, the electrostatic generator placed in the opposite direction according to the electrical conductivity of the water, so that the spray water is electrostatic.

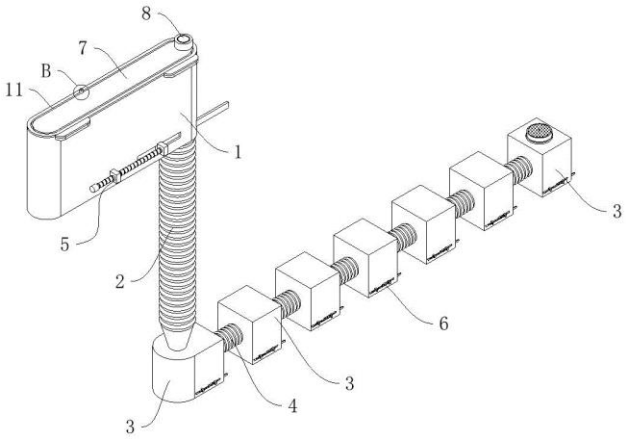


21: 2023/11128. 22: 2023/12/01. 43: 2024/06/27
51: A61H
71: Chongqing Academy of Chinese Materia Medica
72: Juan Li, Gang Chen, Jun He, Chunshan Liu, Hejing Liu, Shaobo Xiao, Jiangqiong Luo, Anqi Zhang, Xiaoping Zhou
33: CN 31: 202310850443.9 32: 2023-07-11

54: A PORTABLE MULTIFUNCTIONAL ADJUSTABLE MEDICATED MOXIBUSTION DEVICE AND ITS APPLICATION METHOD

00: -

The invention relates to the technical field of a moxibustion device, and provides a portable multifunctional adjustable medicated moxibustion device and a use method thereof. The invention comprises a shell, and a first bellow is arranged under the shell, and a connecting shell is arranged under the first bellow. The connecting pipe between the connecting shell is provided with a second bellows. The shell is provided with a first air outlet component, the connecting shell is provided with a second air outlet component, and the top of the shell is hinged with a top cover. A firearm is arranged on the right side of the top cover, and a movable slot is provided on the surface of the top cover. The internal sliding of the movable slot is provided with a rubber convex rod, and the internal fitting of the shell is provided with a connecting cylinder. Through the above technical scheme, the problem that the existing moxibustion device can't switch between the active adjustment of the size of the outlet and the automatic adjustment of the size of the outlet is solved. It also solves the problem that the moxibustion column can't be easily switched, and also solves the problem that the suction can't be automatically stopped according to temperature changes.



21: 2023/11245. 22: 2023/12/06. 43: 2024/06/07
51: A61K; A61Q
71: L'OREAL
72: BOULEMNAKHER, Sarah, GIAFFERI, Marie
33: FR 31: 2107109 32: 2021-06-30

54: COMPOSITION COMPRISING AT LEAST ONE ALKYL (POLY)GLYCOSIDE, AT LEAST ONE FATTY ALCOHOL, AT LEAST ONE FATTY ACID, AND AT LEAST ONE ALKALINE AGENT

00: -

The present invention relates to a composition for treating keratin fibres, notably human keratin fibres such as the hair, comprising at least one (C14-C30)alkyl (poly)glycoside, at least one fatty alcohol, at least one fatty acid, at least one alkaline agent and optionally at least one dye chosen from oxidation dyes, direct dyes and mixtures thereof. The present invention also relates to a process for dyeing and/or lightening keratin fibres, such as the hair, wherein the composition as described previously is applied to said fibres. The present invention also relates to the use of the composition according to the invention for dyeing and/or lightening, preferably dyeing, keratin fibres such as the hair.

21: 2023/11247. 22: 2023/12/06. 43: 2024/06/07
51: A61K; A61Q
71: L'OREAL
72: BOULEMNAKHER, Sarah, MOUEDDENE, Hanène, BRUYERE, Julie, AGACH, Mickaël, GIAFFERI, Marie
33: FR 31: 2107100 32: 2021-06-30

54: COSMETIC COMPOSITION COMPRISING AT LEAST ONE ALKYL (POLY)GLYCOSIDE, N,NDICARBOXYMETHYLGLUTAMIC ACID, PROPANE-1,3-DIOL, AT LEAST ONE FATTY SUBSTANCE OTHER THAN FATTY ACIDS, AT LEAST ONE DYE

00: -

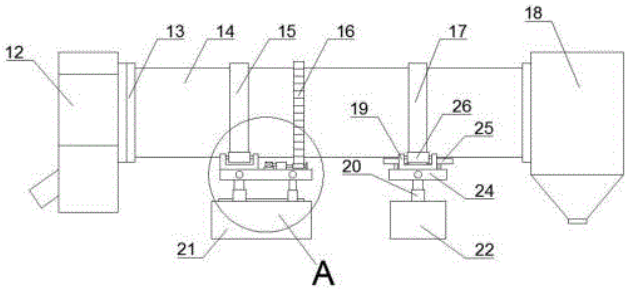
The present invention relates to a composition for treating keratin fibres, notably human keratin fibres such as the hair, comprising at least one alkyl (poly)glycoside, N,N-dicarboxymethylglutamic acid, one of its salts, solvates and/or solvates of its salts, propane-1,3-diol, at least one fatty substance other than fatty acids, at least one dye. The present invention also relates to a process for dyeing keratin fibres, such as the hair, in which the composition as described previously is applied to said fibres. The present invention also relates to the use of the composition according to the invention for dyeing keratin fibres such as the hair.

21: 2023/11264. 22: 2023/12/07. 43: 2024/06/07
51: C10B
71: Jianxiang CHEN, Jun FU
72: Jianxiang CHEN
33: CN 31: 2023105576030 32: 2023-05-17

54: MUNICIPAL SLUDGE OXYGEN-ENRICHED SELF-PYROLYSIS DRYING ROTARY KILN AND RESOURCE UTILIZATION AND DISPOSAL METHOD

00: -

The invention discloses a municipal sludge oxygen-enriched self-pyrolysis drying rotary kiln and a resource utilization and disposal method, including a kiln head cover, a cylinder, and a kiln tail cover, the cylinder is hollow cylindrical, the kiln head cover and the kiln tail cover are respectively arranged at both ends of the cylinder, the kiln head cover and the kiln tail cover are respectively in a rotational connection to the cylinder through a sealing ring, one side of the cylinder is fixed with a first tug and a second tug, and a large ring gear is arranged between the first tug and the second tug. The rotary kiln is used, it has the characteristics of large processing capacity, high temperature, stable combustion state of self-pyrolysis retorting, and complete decomposition of toxic and harmful components, and alkaline environmental conditions can effectively inhibit the emission of acidic substances, so that it is converted into salt substances and fixed. The harmless disposal effect of sludge is remarkable, and the heavy metal ions are solidified at high temperatures to avoid their infiltration and diffusion to pollute water and soil.



21: 2023/11266. 22: 2023/12/07. 43: 2024/06/07
51: C22B
71: Jianxiang CHEN
72: Jianxiang CHEN

54: A METHOD FOR REMOVING IMPURITIES AND EXTRACTING MANGANESE AND EXTRACTING IRON BY MANGANESE WASTE RESIDUE REDUCTION ROASTING

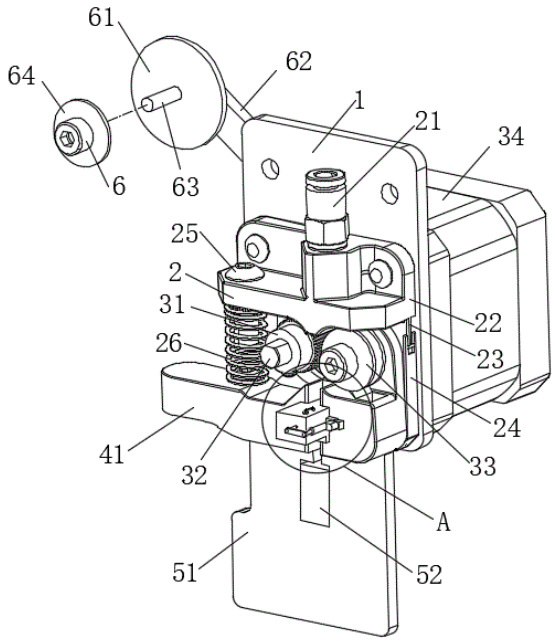
00: -

The present invention discloses a method for removing impurities and extracting manganese and extracting iron by manganese waste residue reduction roasting, including adding the manganese waste residue and coal gangue waste residue into a rotary kiln, and performing high-temperature roasted under a high-temperature environment and a negative pressure condition in the rotary kiln, so that decomposing sulphur, ammonia and nitrogen compounds into gaseous states, and removed with the flue gas entering multi-pipe dust removal system and a cloth bag dust removal system and a tail gas treatment system; subjecting the high-temperature reduced material of the rotary kiln to ball milling, one-stage low-intensity magnetic separation, two-stage high-intensity magnetic separation and three-stage high-intensity magnetic separation and scavenging processes to obtain an iron product, a manganese product and a novel ultra-fine quartz fine powder, wherein the iron product is obtained after

the one-stage low-intensity magnetic separation, and the manganese product is obtained after the two-stage high-intensity magnetic separation and the three-stage high-intensity magnetic separation and scavenging processes, the final tailings are ultra-fine quartz powder.The present invention adopts the above-mentioned a method for removing impurities and extracting manganese and extracting iron by manganese waste residue reduction roasting, to extract manganese and iron, and to remove harmful impurities, the sulfur, nitrogen, and ammonia gases were made into ammonium sulfate fertilizer, the tailings were made into ultra-fine powder as building materials, the waste heat utilization, energy-saving and environmental protection.

21: 2023/11269. 22: 2023/12/07. 43: 2024/06/07
51: B29C
71: Tongling University, Anhui Zhongke Chungu Laser Industry Technology Research Institute Co., Ltd
72: LI, Zansong, CHEN, Wenchao, WANG, Dongsheng, GAO, Xuesong, PENG, Feng
33: CN 31: 2023113877472 32: 2023-10-25
54: MATERIAL SUPPLY DEVICE FOR 3D PRINTING
00: -

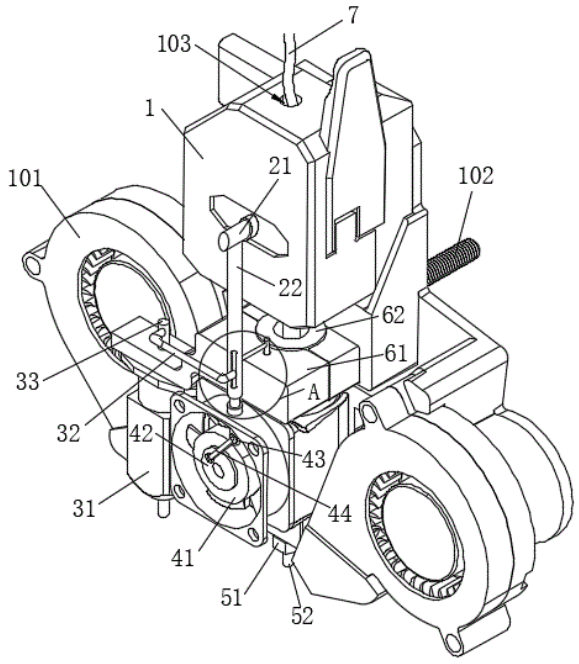
The present invention relates to the field of material supply, and discloses a material supply device for 3D printing, comprising a backboard; a preheating mechanism for heating a wire is fixedly installed on one side of the backboard; a material guiding mechanism for guiding the wire to move and located above the preheating mechanism is slidably connected to the backboard; a reel mechanism for placing the wire is installed at an upper end of the backboard; the lower end of the wire is continuously conveyed downwards by the wire feeding wheel, then enters the blanking trough, and then enters an inside portion of the copper tube, and continuously moves downwards inside the copper tube; during the process, the spiral heating wires are connected to alternating current, so that the copper tube heats up, and internal air of the copper tube in the preheating cavity is heated; the heat of the internal air is transferred to the wire when the wire continuously moves downward, so that the wire is initially warmed up and preheated, preparing for the wire to soften in advance before the wire enters the printer, reducing softening time of the wire, and ensuring that the wire can soften quickly when the wire enters a print head of 3D printer, thus improving 3D printing efficiency.



21: 2023/11270. 22: 2023/12/07. 43: 2024/06/07
51: B29C
71: Tongling University, Anhui Qunling Dongfang 3D Technology Co., Ltd
72: LI, Zansong, CHEN, Wenchao, WANG, Dongsheng, LI, Siwen, HE, Furong
33: CN 31: 2023114180723 32: 2023-10-30
54: NOZZLE STRUCTURE FOR 3D PRINTING
00: -

The present invention relates to the technical field of printing nozzles, in particular to a nozzle structure for 3D printing, which comprises a housing, wherein a threading hole penetrates through the housing, a feeding mechanism is connected at a lower end of

the housing, a heat exchange mechanism is arranged at a lower end of the feeding mechanism; a throat pipe for heating wire is arranged inside the heat exchange mechanism, a nozzle is fixedly arranged at a lower end of the throat pipe, a heating block is fixed on an outer surface of the throat pipe, and an ash removal mechanism connected with the heat exchange mechanism is arranged at one side of the housing; and the throat pipe is electrified and heated by the heating block, so that the internal wire is heated and softened, and then is sprayed through the nozzle for 3D printing, the throat pipe is heated to soften the wire, and the output shaft of a ventilator fan drives fan blades to rotate by energizing the ventilator fan, which stirs the airflow near the throat pipe to exchange with the outside, so as to exchange air and dissipate heat, protect the throat pipe from being scalded and avoid scalding the wire, and the ventilator fan has a wide air exchange range and a good cooling protection effect on the throat pipe.

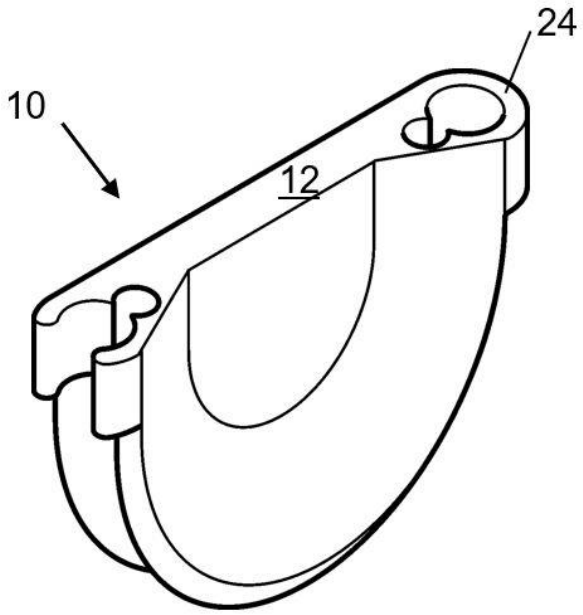


21: 2023/11276. 22: 2023/12/07. 43: 2024/06/07
51: A61M
71: PEAKO MEDICAL (PTY) LTD
72: O'HARE, James Michael, CURRAN, Lindsay John
33: ZA 31: 2022/13283 32: 2022-12-08

54: RETAINING DEVICE FOR MEDICAL TUBING

00: -

There is disclosed a retaining device for medical tubing. The retaining device includes a body which defines a channel having a first guide and a second guide. The first guide has a first size to operatively retain medical tubing of a first diameter and the second guide has a second size which is different from the first size to operatively retain medical tubing of a second diameter. The channel is curved so as to facilitate smooth bending of any medical tubing that is in use retained in one or both of the first guide and the second guide.



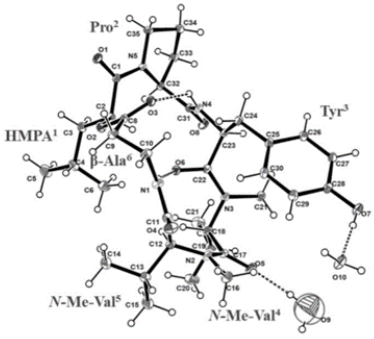
21: 2023/11283. 22: 2023/12/07. 43: 2024/06/07
51: A61K; C07K; C12P; A61P
71: SUN YAT-SEN UNIVERSITY
72: CHEN, Senhua, LIU, Lan, JIANG, Minghua
33: CN 31: 202210019737.2 32: 2022-01-10

54: ISARIDIN CYCLIC LIPOPEPTIDE DERIVATIVE, AND PREPARATION METHOD THEREFOR AND USE THEREOF

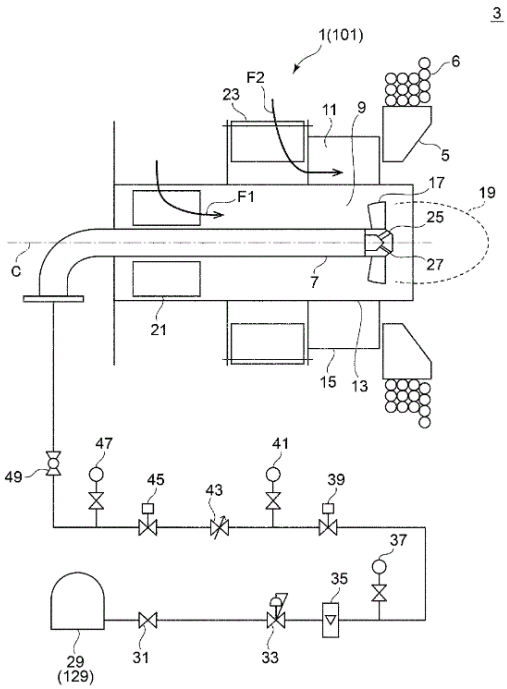
00: -

The present invention belongs to the technical field of biological medicines, and particularly relates to an isaridin cyclic lipopeptide derivative, and a preparation method therefor, and the use thereof. Test prove that the derivative shows a good anti-inflammatory and antithrombotic activity, which is even higher than that of the positive control drug. Moreover, marine microorganisms-derived natural compounds has the characteristics of not being

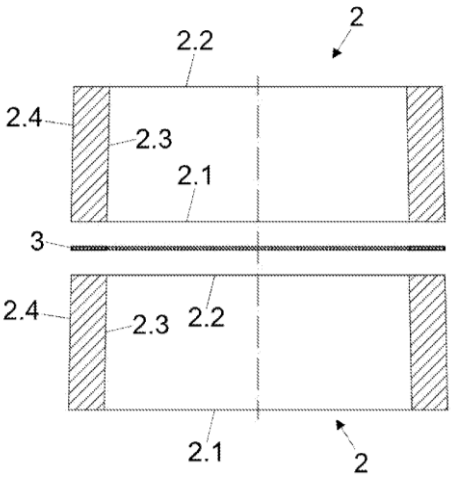
prone to resistance, having high safety, etc., and tests also prove that the cytotoxicity of the compound is low. Furthermore, the isaridin cyclic depsipeptide derivatives is extracted from ascidian symbiotic and epiphyte fungi, can be subjected to scale fermentation by using microorganisms, has the characteristics of a simple production process, a short period, low product cost, etc. and has a wide application prospect.



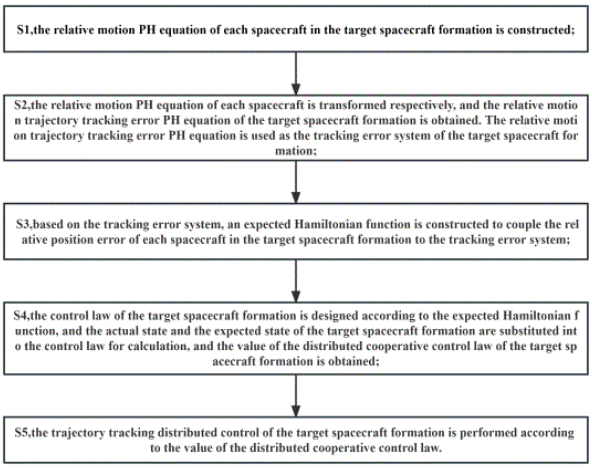
21: 2023/11284. 22: 2023/12/07. 43: 2024/06/07
51: F23C; F23D
71: MITSUBISHI HEAVY INDUSTRIES POWER IDS CO., LTD.
72: TSUMURA, Toshikazu, TAKASHIMA, Yohei, KABUKI, Yutaka, KOZUMA, Tomiaki, TAGUCHI, Yuzo
33: JP 31: 2021-106750 32: 2021-06-28
54: GAS BURNER
00: -
A gas burner includes: a nozzle where gas fuel flows; and a primary air supply part for supplying, from around the nozzle, primary air whose air ratio to the gas fuel is less than 1. The nozzle includes: at least one main hole configured to eject the gas fuel at an ejection angle of not less than 25 degrees and not greater than 45 degrees with respect to a central axis of the gas burner; and at least one sub hole configured to eject the gas fuel at an ejection angle of not less than 35 degrees and not greater than 55 degrees with respect to the central axis of the gas burner, the ejection angle of the sub hole being greater than the ejection angle of the main hole. The gas fuel flowing in the nozzle has a gas pressure of not less than 300 kPa.



21: 2023/11295. 22: 2023/12/07. 43: 2024/07/04
51: E04H; F03D
71: WINDTECHNIC ENGINEERING, S.L.
72: BENAVIDES OCHOA-AIZPURUA, Jokin, LANDEIRA PEREIRA, Álvaro
54: CONCRETE TOWER WITH SEVERAL SECTIONS
00: -
The invention relates to a concrete tower with several sections, that is easy to install and can be designed with a certain dynamic behaviour, each section having an annular configuration and comprising a lower face, an upper face, an inner face and an outer face. According to the invention, each section is stacked on top of an adjacent section, the lower face of one section being stacked on the upper face of the adjacent section, the lower and upper faces are flat, and a ring seal is arranged in contact with the lower and upper faces of adjacent sections, the seal being made of polymer material.

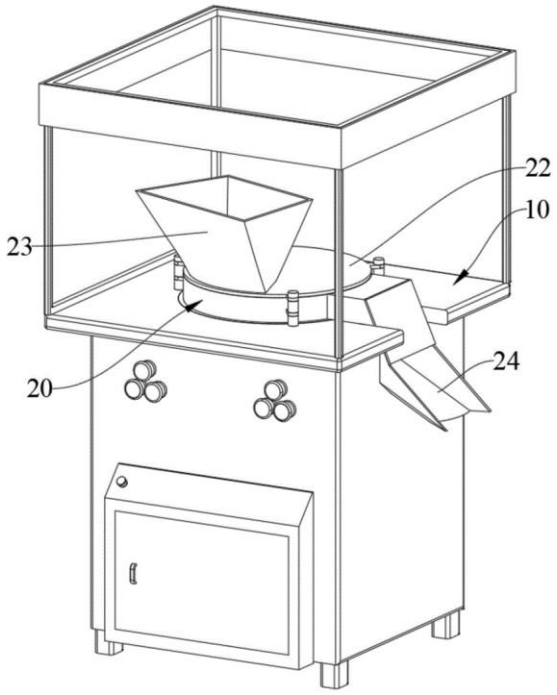


21: 2023/11315. 22: 2023/12/08. 43: 2024/06/10
51: G05D
71: Central South University
72: Qifeng CHEN, Jun LIU, Yuxin LIAO, Mingzhe DAI, Caisheng WEI, Hua JIN
33: CN 31: 2023101233830 32: 2023-02-16
54: A DISTRIBUTED CONTROL METHOD FOR SPACECRAFT FORMATION TRAJECTORY TRACKING AND RELATED EQUIPMENT
00: -
The invention provides a distributed control method for spacecraft formation trajectory tracking and related equipment, including: constructing the relative motion PH equation of each spacecraft of the target spacecraft formation; the relative motion PH equation of each spacecraft is transformed to obtain the relative motion trajectory tracking error PH equation of the target spacecraft as the tracking error system of the target spacecraft formation; based on the tracking error system, the expected Hamiltonian function is constructed to couple the relative position error of each spacecraft in the target spacecraft formation to the tracking error system, according to the expected Hamiltonian function, the control law of the target spacecraft formation is designed and the value of the distributed cooperative control law of the target spacecraft formation is calculated; according to the value of the distributed cooperative control law, the trajectory tracking distributed control of the target spacecraft formation is carried out; the spacecraft formation can accurately and quickly achieve the desired trajectory and maintain the configuration, and realize the distributed cooperative control of the spacecraft cluster network.

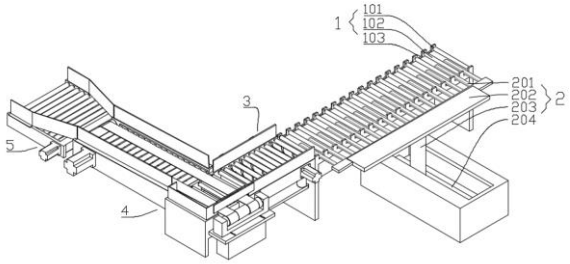


21: 2023/11353. 22: 2023/12/11. 43: 2024/06/11
51: A23P
71: Ruizhien Biotechnology (Henan) Co., Ltd.
72: Xinrui WANG, Shuai WANG, Houmin LIU, Xinke ZHU
33: CN 31: CN202310643089.2 32: 2023-06-01
54: FOOD TABLET PRESS WITH DEHUMIDIFICATION FUNCTION
00: -
The invention relates to a food tabletting machine with a dehumidification function, and belongs to the technical field of food tabletting, a second annular piece is arranged on the inner side of a first annular piece, and the circle center of the second annular piece is different from that of the first annular piece; the sealing plate surrounds the peripheral side of the second annular piece, the second annular piece can rotate relative to the sealing plate, and the sealing plate is connected with the first annular piece in a sealed mode. The cover body is arranged on the upper portion of the first annular piece, an extrusion channel used for food tabletting is limited among the cover body, the first annular piece, the second annular piece and the sealing plate, a discharging port communicated with the outside is formed in the extrusion channel, and a feeding port communicated with the extrusion channel is formed in the cover body; the extrusion part can slide in the radial direction of the second annular part, in the process from the feeding port to the discharging port and then to the feeding port, the section of the extrusion channel is gradually decreased and then gradually increased, and the center of a base circle of the cam is concentric with the circle center of the first annular

part. According to the invention, the tablet press can efficiently press products.

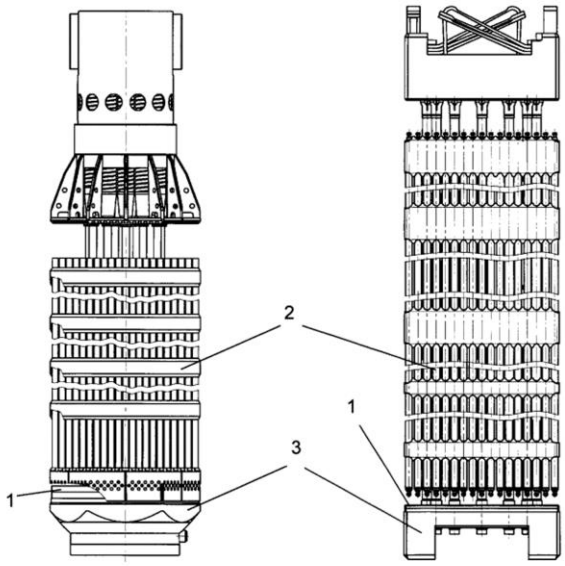


21: 2023/11361. 22: 2023/12/11. 43: 2024/06/11
51: B65G
71: CRRC Yangtze Tongling Co., LTD.
72: LI, Guodong, CHENG, Guangyuan, LI, Liqun, XIONG, Yongyue, YE, Yang, WANG, Jiafu, LIU, Hong, QIN, Xiaolin, PAN, Anqi, WANG, Fei, QIAN, Xiaojun
33: CN 31: 2022114549112 32: 2022-11-21
54: CONTINUOUS GROUPING DEVICE FOR TAIL END OF CONVEYOR LINE
00: -
Provided is a continuous grouping device for a tail end of a conveyor line. The continuous grouping device includes a first conveyor line and a second conveyor line, a predetermined angle is formed between the first conveyor line and the second conveyor line, a goods direction change device is arranged between the first conveyor line and the second conveyor line, the goods direction change device includes a direction change mounting frame, a direction change conveyor roller is rotatably connected to an inner wall of the direction change mounting frame, a direction change accommodation opening is provided at an upper end of the direction change mounting frame, a negative pressure assembly is arranged in the direction change accommodation opening, the negative pressure assembly is close to an inner wall of a first side of the direction change mounting frame, a jacking assembly is arranged in the direction change mounting frame, the negative pressure assembly is controlled by the jacking assembly to linearly move to penetrate into and out of the accommodation opening, a first electric control device is arranged in the direction change mounting frame, and the direction change conveyor roller is controlled by the first electric control device to rotate. According to the present invention, postures of goods can be continuously and efficiently adjusted, and efficiency of goods grouping and stacking is improved.



21: 2023/11362. 22: 2023/12/11. 43: 2024/06/11
51: G21C
71: JOINT-STOCK COMPANY "TVEL" (JSC TVEL), PUBLICHNOE AKTSIONERNOE OBSHCHESTVO "NOVOSIBIRSKY ZAVOD KHIMKONTSENTRATOV" (PAO "NZHK")
72: IVANOV, Roman Sergeevich, ENIN, Anatoly Alekseevich, SHUSTOV, Mstislav Aleksandrovich, MURAVIEV, Andrey Vladimirovich, MYAKOV, Sergey Aleksandrovich, SIMANOVSKAYA, Irina Evgenyevna, SHOLIN, Evgeny Vasilyevich, UGRYUMOV, Aleksandr Valeryevich
33: RU 31: 2021118331 32: 2021-06-21
54: DEVICE FOR TRAPPING DEBRIS IN A NUCLEAR FUEL ASSEMBLY
00: -
The invention relates to a device for trapping debris in a nuclear fuel assembly, which is mounted in the bottom nozzle of the fuel assembly. The device consists of two interconnected plate-type filter elements arranged one above the other and having channels for the passage of a coolant. In the lower filter element, the channels are inclined toward the axis of the fuel assembly, and in the upper filter element, the channels are parallel to the axis of the fuel assembly. The channels can be produced, in particular, by waterjet cutting to form slots in the field of a filter element plate, which are separated

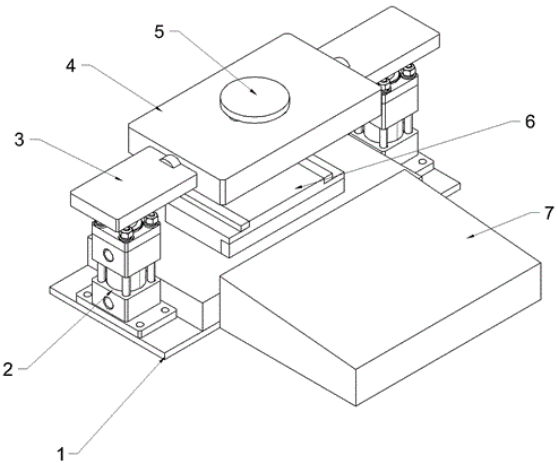
lengthwise by vertical ribs and widthwise by crosspieces. The vertical ribs and the crosspieces between the channels of each of the filter elements have roundings formed thereon, and a gap is provided between the vertical ribs and crosspieces formed in the plates of different filter elements. The technical result is the possibility of intercepting and trapping debris of any size contained in a coolant loop, without reducing the flow cross section for the coolant.



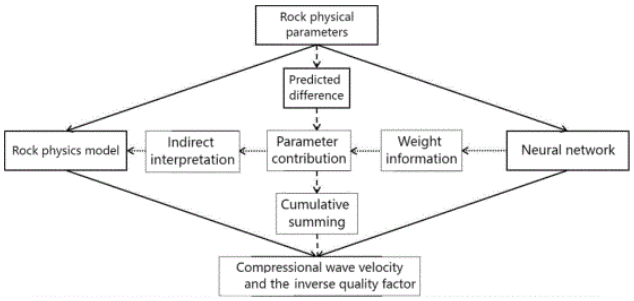
21: 2023/11395. 22: 2023/12/12. 43: 2024/06/14
51: C02F
71: University of Chinese Academy of Sciences
72: WANG Zhibin, LIU Wenjia, GUO Zhiwei, ZHANG Xiru, GONG Chunrong, YIN Yuting, YU Zhisheng
54: RARE EARTH-BASED COMPOSITE MINERAL ALGAE-INHIBITING WATER PURIFYING AGENT AND USE METHOD THEREOF
00: -
The invention discloses a rare earth-based composite mineral algae-inhibiting water purifying agent and a use method thereof, which includes a composite mineral material, a combination of zeolite, medical stone, lanthanum oxide, calcium oxide and kaolin, and composite mineral modifying components, mainly polyaluminum chloride and fumaric acid. Mixing the above materials uniformly according to the weight ratio, and adding into an extrusion granulator to prepare the water purifying agent. The modifier polyaluminum chloride used in the invention is drinking water grade, which is a commonly used water purifying agent for tap water in China and has low safety; fumaric acid is a natural small molecular organic acid, which is not only widely available, but also an intermediate metabolite of organisms. The raw materials for synthesizing fumaric acid are simple and safe to use.

Days	Chlorophyll a (ug/L)	Ammonia nitrogen mg/L	Phosphate mg/L	Transparency cm
1	32	0.48	0.06	86
3	29	0.32	0.04	122
5	22	0.18	0.03	156
10	26	0.16	0.02	164
15	18	0.13	0.02	176

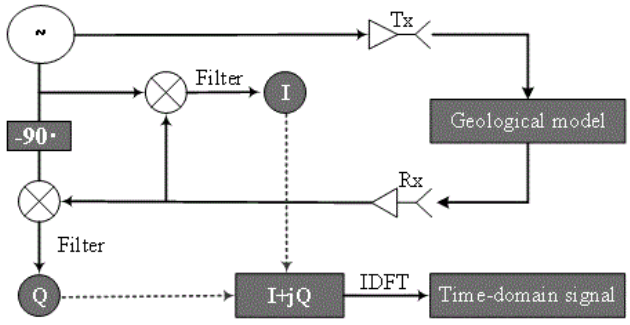
21: 2023/11396. 22: 2023/12/12. 43: 2024/06/14
51: B01J
71: Beijing Gonglianjieda Highway Maintenance Co., Ltd., Beijing Gong lian Highway Connection Line Co., Ltd.
72: WEN Long, GUO Runhua, ZHAO Yuhua, WANG Dong, LI Shuqing, YANG Wei, QIU Chuan, ZHAI Lifeng, QI Yanan, WANG Shengwu, LIU Lili, ZENG Hao, ZHAI Xueguo, ZHOU Dongliang, WANG Yujie
54: DEVICE AND METHOD FOR QUANTIFYING ADHESION LOSS
00: -
The invention belongs to the technical field of material science, and in particular to a device and a method for quantifying adhesion loss, which includes a base, where the top ends of two sides of the base are respectively fixedly connected with lifting cylinders, and the axes of the lifting cylinders are vertical to the base; the output shafts of the two lifting cylinders are respectively fixedly connected with fixed plates, and the same rotating plate is rotatably connected between the two fixed plates; an adhesion loss measuring structure penetrates through the center of the rotating plate; the top ends of the base are detachably connected with a fixed table structure, the fixed table structure is vertically corresponding to the adhesion loss measuring structure; the front end of the base is fixedly connected with a control structure, and the control structure is electrically connected with the lifting cylinders and the adhesion loss measuring structure. By using this structure, the invention well realizes the measurement and calculation of adhesion loss between two kinds of asphalt, greatly simplifies the experimental flow, improves the accuracy of experimental measurement, and enables the adhesion loss to be quantified and calculated conveniently.



21: 2023/11397. 22: 2023/12/12. 43: 2024/06/14
51: G01V
71: Central South University
72: Zhenwei GUO, Bochen WANG, Jiawei LIU, Dawei GAO
33: CN 31: 2023101733441 32: 2023-02-28
54: METHOD FOR INTERPRETING MULTI-PARAMETER CONTRIBUTIONS IN A ROCK PHYSICS MODEL BASED ON NEURAL NETWORKS
00: -
The invention provides a method for interpreting multi-parameter contributions in a rock physics model based on neural networks. The method includes: first, predicting the compressional wave velocity and the inverse quality factor by the neural network which is served as the surrogate rock physics model; then, using the network parameters saved by the trained neural network to extract the neuron weight information involved in each input parameter, and calculating the predicted value of each parameter separately; and then, the contribution of the parameter is obtained by subtracting the difference between the predicting results obtained by adding a new parameter and the predicting results without adding the parameter, the contribution of the parameter to the final predicting result can be obtained by summing up all the contributions related to the parameter, finally, the predicting results of the original neural network can be obtained by summing the contributions of all parameters. At this point, the contribution of each parameter in the neural network which is served as the surrogate rock physics model to the predicting results can be indirectly interpreted.



21: 2023/11398. 22: 2023/12/12. 43: 2024/06/14
51: G01S
71: Central South University
72: Jianping XIAO, Yu DENG, Zhenwei GUO, Bochen WANG, Dongyang LIU
54: A KIND OF DATA FUSION METHOD, DEVICE AND STORAGE MEDIUM USED FOR STEPPED FREQUENCY RADAR SIGNAL
00: -
The present invention discloses a kind of data fusion method used for stepped frequency radar signal, which comprises: obtaining sine continuous wave emission signals with different frequencies; obtaining the reflected signal corresponding to the transmitted signal; orthogonal decomposition of each frequency reflection signal; the low-pass filter is filtered to obtain the difference frequency components I'n and Q'n in the results of In and Qn; the reflected signal of each frequency is represented in the frequency domain as I'n+jQ'n; the reflected signals of all frequencies are fused by inverse Fourier transform. The above method makes the frequency components of the fused signal flexible and controllable, and the synthesized radar image has a higher signal-to-noise ratio than the conventional pulse signal.



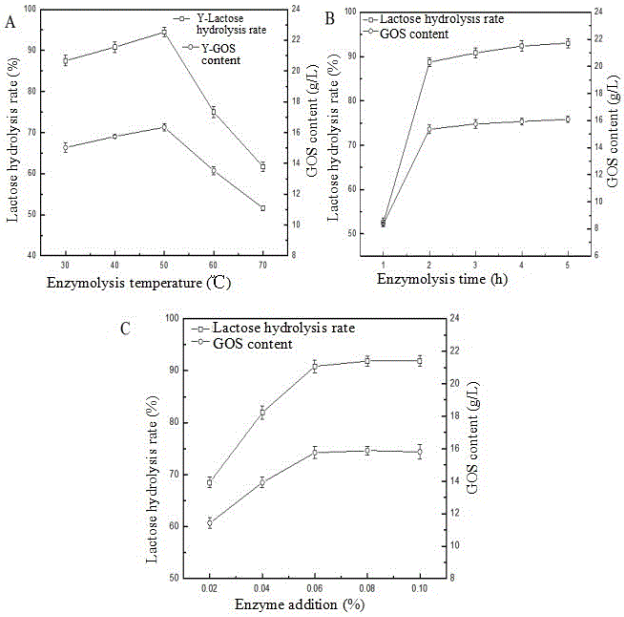
21: 2023/11400. 22: 2023/12/12. 43: 2024/06/14
51: A23C
71: Shaanxi University of Science and Technology, Baiyue Goat Dairy (He shui) Guxiang Co., Ltd.

72: SHU Guowei, LIU Zhengxin, YAN Xueqian, CUI Xiuxiu, KANG Hongjuan, YIN Chun, XU Qinfeng

54: LACTOSE-FREE PREBIOTIC LIQUID GOAT MILK AND PREPARATION METHOD THEREOF

00: -

The invention discloses lactose-free prebiotic liquid goat milk and a preparation method thereof, and belongs to the technical field of dairy product preparation. The lactose-free prebiotic liquid goat milk contains compound lactase, the compound lactase consists of lactase from Kluyveromyces marxianus and lactase from Aspergillus oryzae according to the mass ratio of 1: 2-4: 1. According to the invention, goat milk is used as a raw material, lactose in goat milk is hydrolyzed into galactose and glucose by the combined action of two lactase enzymes, and is converted into galactooligosaccharide by transglycosylation of lactase, so that the lactose content in liquid milk is reduced, lactose intolerance is relieved, and prebiotics are provided for probiotic groups in intestinal tracts, and the product is more suitable for people with lactose intolerance.



21: 2023/11401. 22: 2023/12/12. 43: 2024/06/14
51: G01N

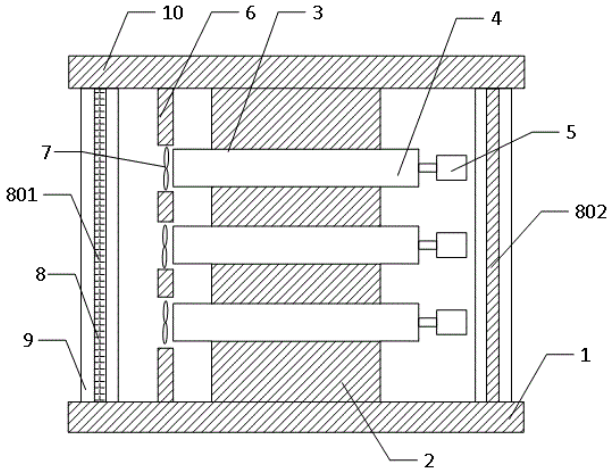
71: Academy of Water Resource Conservation forests of Qilian Mountains in Gansu Province
72: Dong LV, Hu ZHAO, Xingpeng ZHAO, Erwen XU, Hongbin ZHANG, Jianhai LIU, Guosheng ZHAO, Xiaobing XIE

33: CN 31: 2023115701319 32: 2023-11-23

54: FOREST CARBON SINK METROLOGICAL DETECTION DEVICE

00: -

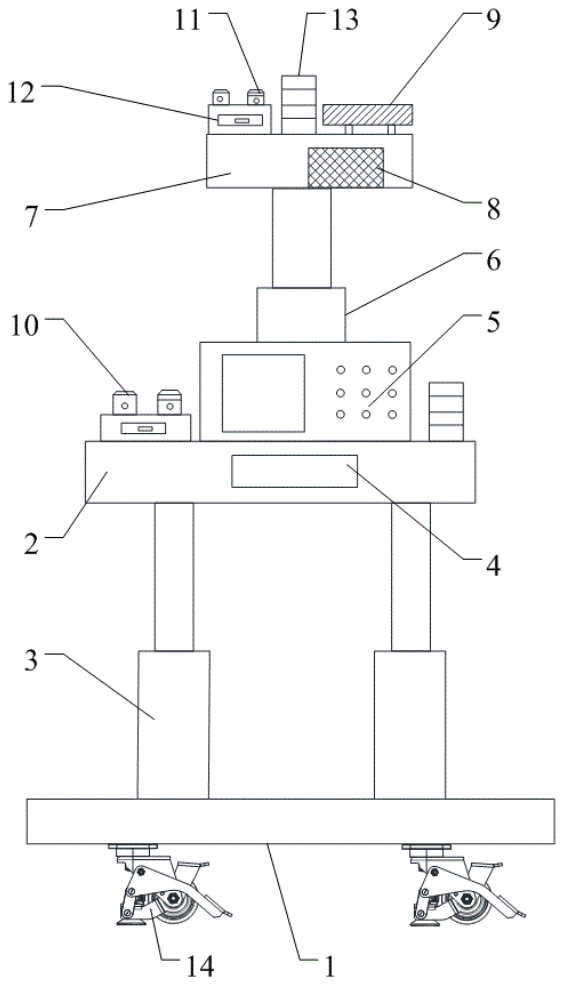
A forest carbon sink metrological detection device is disclosed, including a floor, a roof, a fixed plate and a sliding plate, a fixed column is fixedly installed on the floor, and several placement slots are evenly opened on the fixed column, and a gas collecting pipe is installed in the placing slots, one side of the gas collecting pipe is connected to a carbon dioxide detector, and the other end is attached to a spacing board; and the fixed plate is embeddedly connected with the floor, the fixed plate include a first fixed plate and a second fixed plate, wherein the first fixed plate is arranged on one side of the spacing board, the second fixed plate is surrounded by the first fixed plate into a square structure; the sliding plate is a 'concave' structure, and the concave part is embedded with the fixed plate, the closed end of the sliding plate is embedded with the roof. The present invention adopts a forest carbon sink metrological detection device with the above structure, which can realize carbon dioxide detection at different positions and at different times; and the fixed column is directly fixed to the floor to make the gas collector and carbon dioxide detector more stable.



21: 2023/11402. 22: 2023/12/12. 43: 2024/06/14
51: A01G

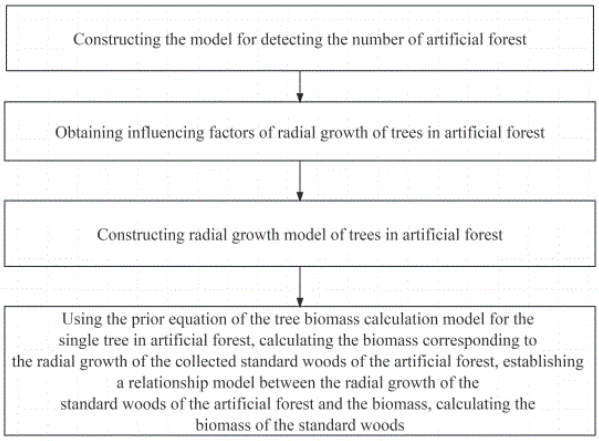
71: Academy of Water Resource Conservation forests of Qilian Mountains in Gansu Province, Western Carbon Sink Trading Asset Management (Gansu) Co., Ltd.
72: Hu ZHAO, Dong LV, Guosheng ZHAO, Mengde LIU, Erwen XU, Hongbin ZHANG, Xuemin DAI, Yingyu WANG, Xiaobing XIE, Xingpeng ZHAO

33: CN 31: 2023115751657 32: 2023-11-23
54: DETECTING DEVICE FOR THE CARBON SEQUESTRATION CAPACITY OF TREES
00: -
A detecting device for the carbon sequestration capacity of trees is provided, belonging to the field of natural vegetation carbon sequestration technology, wherein it includes a floor, a first lifting device and a support plate, a horizontal sensor is arranged on the side wall of the support plate, a controller, a first detection device and a second lifting device are arranged on the upper end of the support plate, the upper end of the second lifting device is fixedly provided with a box, a solar photovoltaic plate and a second detection device are arramged on the upper end of the box, and the second detection device and the first detection device are connected with the controller. The present invention adopts the detecting device for the carbon sequestration capacity of trees of the above structure, through a controller to control a first lifting device and a second lifting device, and to adjust the height of the whole device and cooperate with an universal wheel to facilitate the use of staff; meanwhile, through the controller to control a first detection device, a second detection device and a light intensity measuring instrument to collect data at different times and different heights, and through a control terminal for data analysis, so as to realize the detection of tree carbon sequestration ability.



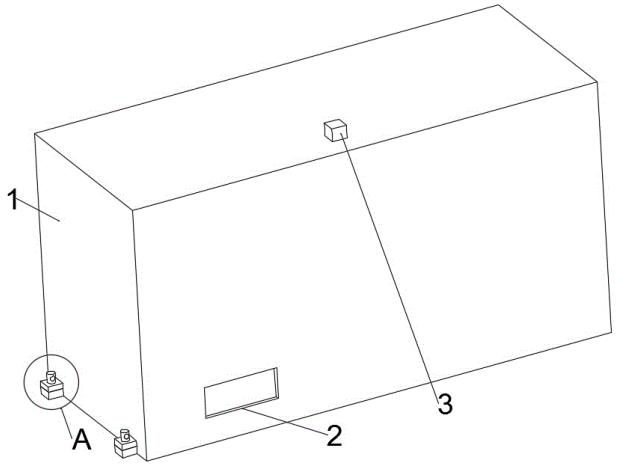
21: 2023/11403. 22: 2023/12/12. 43: 2024/06/14
51: G06Q
71: Academy of Water Resource Conservation forests of Qilian Mountains in Gansu Province, Climate Bridge (Shanghai) Ltd.
72: Xingpeng ZHAO, Ming ZHAO, Zhaorui NI, Zhiwen GAO, Shanfeng HUANG, Erwen XU, Hongbin ZHANG, Xiwei ZHANG, Lijiao HU, Keming LIN
33: CN 31: 2023115701361 32: 2023-11-23
54: A METHOD FOR PREDICTING CARBON SINK OF ARTIFICIAL FOREST
00: -
The present invention disclosed a method for predicting carbon sink of artificial forest, which belongs to the field of forestry carbon sink computing technology, comprising the steps of: S1, constructing the model for detecting the number of artificial forest; S2, obtaining influencing factors of radial growth of trees in artificial forest; S3. constructing radial growth model of trees in artificial forest; S4, using the prior

equation of the tree biomass calculation model for the single tree in artificial forest, calculating the biomass corresponding to the radial growth of the collected standard woods of the artificial forest, establishing a relationship model between the radial growth of the standard woods of the artificial forest and the biomass, calculating the biomass of the single tree, multiplying the biomass of the standard woods by the number of trees detected, and obtaining the biomass of the artificial forest in the target area. The present invention uses the above-mentioned a method for predicting carbon sink of artificial forest to comprehensively consider the factors affecting the carbon sink of the artificial forest, by establishing the relationship model between the radial growth and biomass of the artificial forest, the carbon sink of the artificial forest is predicted by predicting the radial growth.



21: 2023/11404. 22: 2023/12/12. 43: 2024/06/14
51: A47B
71: Hunan City University
72: XU Liping, TAN Xin, TIAN Jinming
54: MOBILE PHONE MANAGEMENT DEVICE FOR STUDENTS
00: -

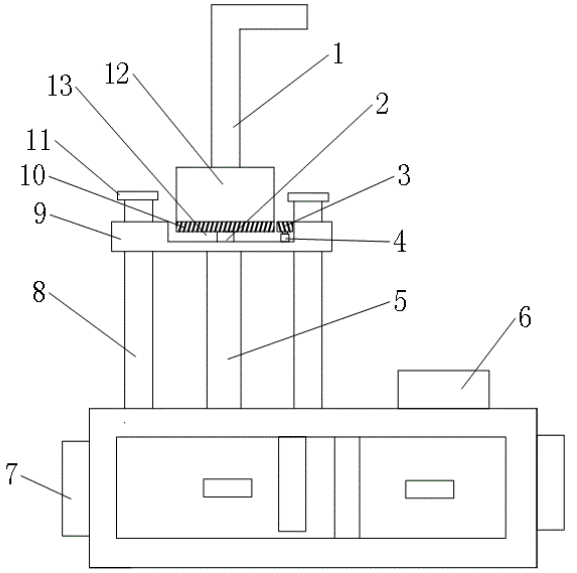
The invention belongs to the technical field of classroom mobile phone management, and provides a mobile phone management device for students, which includes a base, where a box body is arranged at the top of the base, and a plurality of flat placing compartments are arranged in an array on one side of the box body; a placing assembly, which includes a moving mechanism and a placing mechanism, where the moving mechanism is arranged on the base, the moving mechanism is used for shifting the placing mechanism to a corresponding flat placing compartment, and the placing mechanism is used for taking and placing a mobile phone from a flat placing compartment; a cover is used for buckling the box body and the placing assembly, one side of the cover close to the placing assembly is provided with a placing opening, the placing mechanism is arranged corresponding to the placing opening, and a locking assembly is arranged between the cover and the base. The invention can reduce the height of the mobile phone management device while ensuring the convenient taking and placing of the mobile phone.



21: 2023/11405. 22: 2023/12/12. 43: 2024/06/14
51: G01N
71: Academy of Water Resource Conservation forests of Qilian Mountains in Gansu Province, Western Carbon Sink Trading Asset Management (Gansu) Co., Ltd., Climate Bridge (Shanghai) Ltd.
72: Yanxia WANG, Erwen XU, Hu ZHAO, Xiaohu YANG, Hongbin ZHANG, Mengde LIU, Zhiwen GAO, Dong LV, Ming ZHAO, Xingpeng ZHAO
33: CN 31: 2023115701395 32: 2023-11-23
54: A MOBILE CARBON SINK MEASURING DEVICE
00: -

The present invention discloses a mobile carbon sink measuring device, it includes a base, a controller, and a detector, the interior of the base is hollow, and the interior of the base is divided into compartment one and compartment two through a vertical clapboard, the interior of compartment two is arranged a diaphragm plate, a measuring instrument is arranged above the diaphragm plate, the interior of compartment one is arranged with two

symmetrically arranged screws, the two screws run through the top of the base, the two screws are connected with a support plate on the thread, the support plate is arranged with an installation groove, the installation groove is arranged an exhaust fan, the exhaust fan is arranged an exhaust pipe, the front and rear ends of both sides of the base are arranged with moving wheels. The present invention adopts the above-mentioned mobile carbon sink measuring device to solve the problem that the existing measuring device cannot detect the carbon dioxide concentration at different heights of the carbon sink forest during the measurement process, resulting in poor practicability of the measuring device.

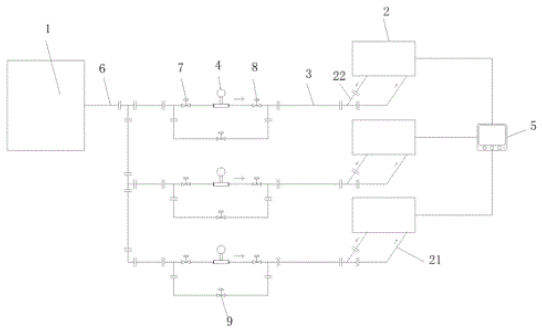


21: 2023/11406. 22: 2023/12/12. 43: 2024/06/14
51: G08C
71: Jiamusi University
72: Ruxin HOU

54: A FORCED FLAMEOUT DEVICE AND METHOD FOR ENGINE FUEL CONSUMPTION MONITORING OF SPEEDBOAT

00: -

The present invention discloses a forced flameout device and method for engine fuel consumption monitoring of speedboat, which belongs to the technical field of fast boat engines. The device comprises a fuel tank and a number of generator sets, each set of generator sets is connected to the fuel tank through the fuel manifold and the fuel output pipe of the engine, respectively, each set of fuel manifolds is arranged a flowmeter, the flowmeter and the generator set are connected to the data processing module. The method comprises generating power; data processing; obtaining fuel efficiency; and judging whether the efficacy to adopt the forced flameout. The present invention can obtain specific and accurate electric energy data, improve the measurement accuracy of fuel energy efficiency, and will not cause errors in the measurement results due to the influence of speedboat tilt, swing and fuel tank size. To realize the speedboat power forced flameout, and has a high success rate of forced shutdown of gasoline electronic injection engines, the required working time is short, greatly reducing the risk of law enforcement and collateral damage; meanwhile, the system adopts fiber-optic isolation to ensure that the operators are far away from the high-voltage work area, the device has high operational safety.



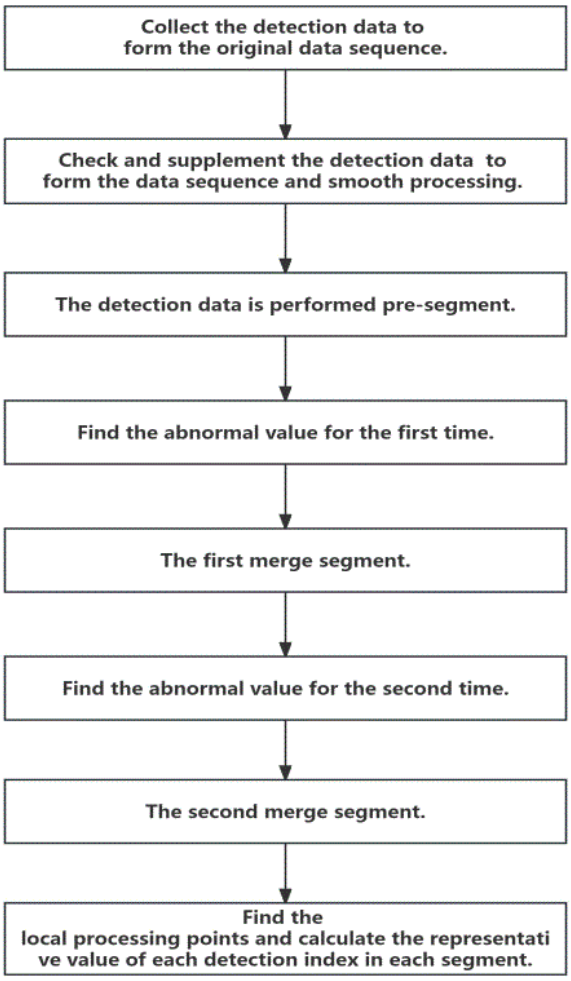
21: 2023/11408. 22: 2023/12/12. 43: 2024/06/14
51: G01B
71: Henan Communications Planning & Design Institute Co., LTD.
72: Bo YANG, Xiaofeng WANG, Chenguang WAN, Guangsheng HU, Mingye HOU, Guangpeng GU, Xiao GUO, Wanting ZHANG

54: A DETECTION METHOD FOR MULTI-FEATURE DATA OF ASPHALT PAVEMENT

00: -

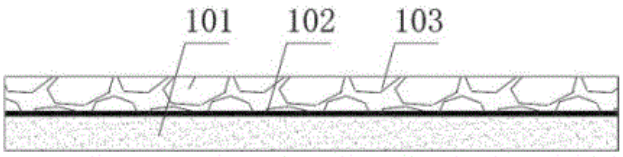
The invention relates to a detection method for multi-feature data of asphalt pavement, which belongs to the field of data detection, including the following steps: collect detection data to form the original data sequence; check and supplement the detection data to form the data sequence and perform the smooth processing; perform the pre-segment for the detection data; find the abnormal value for the first time; the first merge segment; find the abnormal value for the second time; the second merge segment; find local processing points and measure

the representative values of each detection index in each segment. The invention adopts the above detection method of multi-feature data of asphalt pavement, which can effectively detect the abnormal value and its location in the detection data, and effectively distinguish the road segment of the distribution of the detection index in the whole road section.



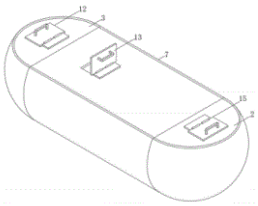
21: 2023/11409. 22: 2023/12/12. 43: 2024/06/14
51: G01N
71: Henan Communications Planning & Design Institute Co., LTD.
72: Bo YANG, Xiaofeng WANG, Chenguang WAN, Guangsheng HU, Huixian ZHANG, Jianfei LIU, Shentong GAO, Aoxing ZHANG
54: AN EVALUATION METHOD FOR ANTI-FATIGUE PERFORMANCE OF BRIDGE DECK PAVEMENT STRUCTURE
00: -

The present invention discloses a method for evaluating the anti-fatigue performance of bridge deck pavement structure, which includes the following components by weight: s1. making test specimens; s2. determining the test equipment; s3. loading test specimen; s4. parameter input; s5. starting the test equipment; s6. the bonding strength test of waterproof bonding layer is carried out to evaluate the fatigue resistance of waterproof bonding layer; s7. the fatigue life of bridge deck pavement structure is tested. The present invention adopts the above-mentioned evaluation method of anti-fatigue performance of bridge deck pavement structure, which is close to reality and the obtained results are scientific and accurate.

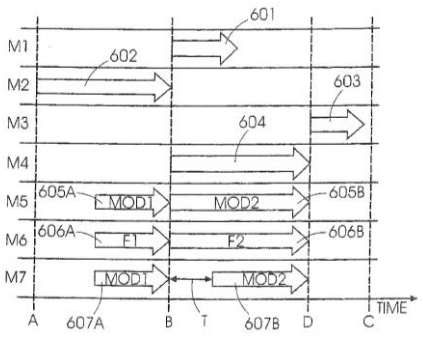


21: 2023/11419. 22: 2023/12/12. 43: 2024/06/14
51: C02F
71: SICHUAN PRATACULTURAL TECHNOLOGY RESEARCH AND EXTENSION CENTER
72: LI, Hongquan, HUANG, Min, CHENG, Mingjun, YANG, Chuntao, LI, Bo, WU, Wendan, HE, Peipei, TANG, Weiqi, YAO, Mingjiu, LIAO, Xiaorong, YANG, Tingyong, YAN, Lin, RONG, Jing
33: CN 31: 202210067845.7 32: 2022-01-20
54: BIOGAS SLURRY, BIOGAS RESIDUE AND BIOGAS PRODUCTION TANK FOR GRASS PLANTING IN ALPINE PASTURING AREA
00: -
Disclosed is a biogas slurry, biogas residue and biogas production tank for grass planting in an alpine pasturing area. The tank comprises a biogas digester body, outer-layer glass fiber reinforced plastic, a heat insulation film, a heat insulation medium and a carbon fiber heating cable. The heat insulation film is arranged outside the biogas digester body, the heat insulation medium is arranged outside the heat insulation film, the outside of the heat insulation medium is covered by the outer-layer glass fiber reinforced plastic, and an inner side of the heat insulation film is connected to the carbon fiber heating cable by means of bonding. By means of the tank, a heating structure and a heat insulation medium are added, such that a biogas

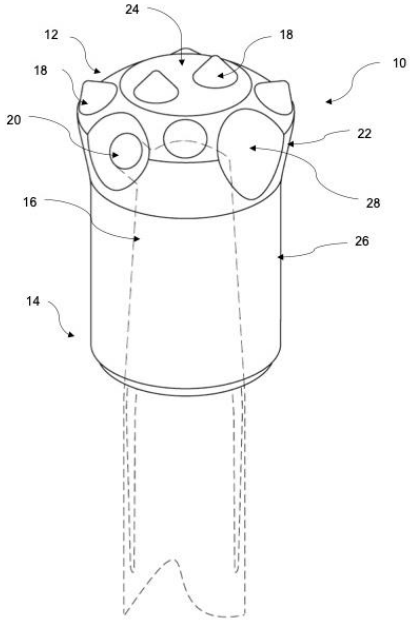
digester body is heated and heat is prevented from being externally transferred.



21: 2023/11421. 22: 2023/12/12. 43: 2024/06/14
51: F42D
71: DETNET SOUTH AFRICA (PTY) LTD
72: KRUGER, Michiel Jacobus, YATES, Marinus, MAURISSENS, Daniel August Julien Louis, PETTED, Brian E.
33: ZA 31: 2021/04220 32: 2021-06-21
33: ZA 31: 2022/06185 32: 2022-06-03
54: BLAST CONFIRMATION
00: -
A communication module which is linked to a detonator which is initiated in response to a fire command signal, and wherein the communication module includes a transmitter which transmits a wireless signal which is dependent upon initiation of the detonator and which contains or conveys an identifier which uniquely identifies the detonator.

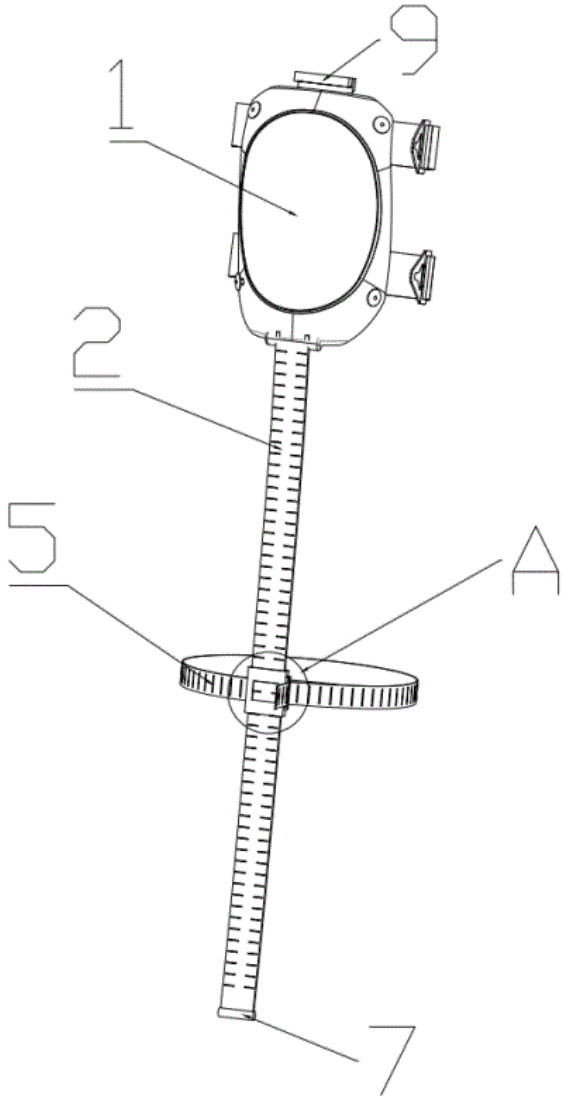


21: 2023/11443. 22: 2023/12/12. 43: 2024/06/14
51: E21B
71: DOLLA HOLL DRILLING SERVICES (PTY)LTD
72: Roelf PetrusHOLL
54: A DRILL BIT
00: -
The invention relates to a rock drill bit which includes a drive end and an opposite engagement end, a flow passage extending between the drive end and the engagement end, at plurality of buttons protruding from and extending away from the engagement end, at least one flushing hole, the flushing hole positioned on the side of the engagement end, the flushing hole being in flow communication with the flow passage extending between the engagement end and the drive end



21: 2023/11444. 22: 2023/12/13. 43: 2024/06/18
51: A61B
71: Quzhou People's Hospital
72: Xinmei Zhang, Wei Lu, Dagang Yu, Sufang Ye, Lingling Yu
54: INTEGRATED LEG CIRCUMFERENCE MEASURING RULER DEVICE FOR DEEP VENOUS THROMBOSIS
00: -
An integrated leg circumference measuring ruler device for Deep Venous Thrombosis, comprises: a knee fixing cover; the knee fixing cover is convex; a calf length measuring ruler is provided on lower side of the knee fixing cover, and the material of the calf length measuring ruler is leather; a sliding sleeve housing is provided on the calf length measuring ruler, the sliding sleeve housing and the calf length measuring ruler are transition fit; the sliding sleeve housing is provided with observation holes, and the observation holes are located on the side where the scale of the calf length measuring ruler is located; a calf circumference measuring ruler is provided on one side of the sliding sleeve housing, and the other side of the sliding sleeve housing is provided with a U-shaped auxiliary frame; two ends of the U-shaped

auxiliary frame are fixedly matched with the sliding sleeve housing; end of the calf circumference measuring ruler passes through the space formed by the U-shaped auxiliary frame and the sliding sleeve housing. Measure the calf circumference starting from the upper part of the calf, to the lower part of the calf, which facilitates taking values for the overall size of the calf. It is easy to use, improves the work efficiency of medical staff, and has high practicality.

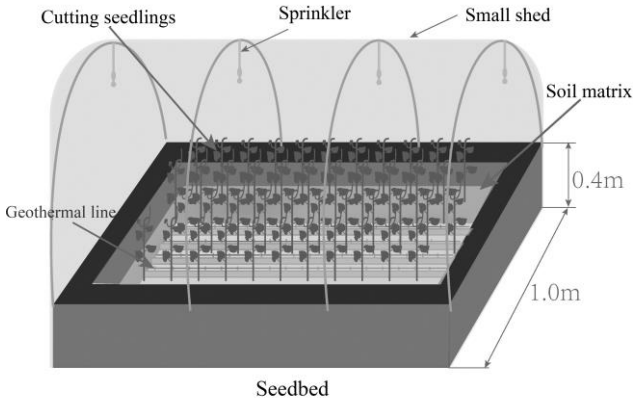


21: 2023/11445. 22: 2023/12/13. 43: 2024/06/18
51: A01G
71: Turpan Research Institute of Agricultural Sciences, Xinjiang Academy of Agricultural Sciences.
72: Jiuyun Wu, Riziwangguli Abudureheman, Haixia Zhong, Guohong Liu, Zhigang Liu, FuchunZhang, Yaning Ma, Xiping Wang, Xinyu Wu, Abulaike Niyazi, Yanjun Xu, Hongwei Yang, Hanming Su

54: A METHOD TO IMPROVE THE CUTTAGE BREEDING EFFICIENCY OF 'HANCE'

00: -

The invention disclose a method for improving grapevine (Vitis adstricta 'Hance') breeding efficiency through cuttage, by laying a heating wire at the bottom of the seedbed, mix a 5.0-10.0 cm thick substrate with soil in the seedbed, cut annual grapevine branches with full buds and good maturity as cuttings, before cutting, soak the cuttings in clean water for 24 hours, during this period, change the water per 4 hours, soak in ABT solution and take out the cuttings on the seedbed substrate. During this period, the temperature in the seedbed is controlled at 25 celsius degree to 28 celsius degree, the soil moisture is controlled at 60% to 65%, and the relative air humidity is 60% to 80%, pay attention to maintaining ventilation. It can be transplanted after about 25 to 30 days. This environmental treatment is facilitate the rapid rooting of grapevine seedlings to improve the survival rate of 'Hance' seedlings (92.12%), the seedling emergence rate reached 86.67% (an increase of 21.0% compared with the control), which significantly improved the survival rate of 'Hance' seedlings. The survival rate and emergence rate of seedlings are of great significance to improving the breeding efficiency of 'Hance' seedlings.



21: 2023/11447. 22: 2023/12/13. 43: 2024/06/18
51: H01M
71: Bengbu University
72: Xiong Mingwen, Jin Xiaoqi, Hu Tong, Ma Jiayu
33: CN 31: 2023115701408 32: 2023-11-23

54: A HIGH-PERFORMANCE CALCIUM TITANATE-TYPE LA2NIO4 ELECTRODE MATERIAL, ITS PREPARATION METHOD, AND APPLICATION.

00: -

The invention discloses a high-performance calcium titanate-type La2NiO4 electrode catalytic material, its preparation method, and application, which belong to the synthesis field of calcium titanate-type La2NiO4. The invention employs a sol-gel templating method to produce the calcium titanate-type La2NiO4 material, which, after being uniformly mixed with graphene powder, yields the high-performance calcium titanate-type La2NiO4 electrode catalytic material. When applied as the membrane electrode material in urea fuel cells, this high-performance calcium titanate-type La2NiO4 electrode catalytic material enables the photo-catalytic oxidation of urea across a wide wavelength range, exhibiting high catalytic efficiency.

21: 2023/11449. 22: 2023/12/13. 43: 2024/06/18

51: A41D

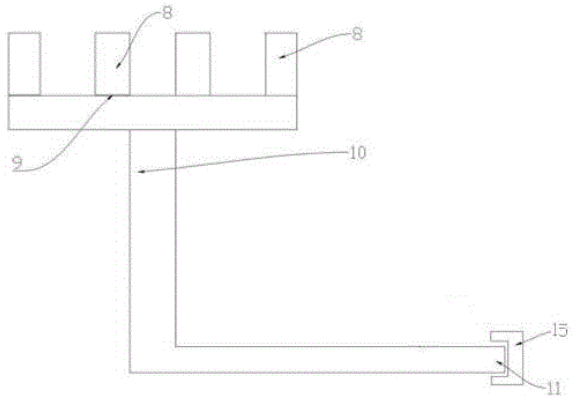
71: Jiaxing Vocational & Technical College

72: LI Haoying

54: NOVEL MULTIFUNCTIONAL OUTDOOR PROTECTIVE CLOTHING

00: -

The invention belongs to the technical field of functional clothing, in particular to a novel multifunctional outdoor protective clothing, which includes a clothing body, where the clothing body includes a left front part, a back part and a right front part which are connected in sequence, and four hidden pockets are arranged at the inner side of the lower part of the clothing body, where two hidden pockets are located at the left front part and the right front part respectively, and the other two hidden pockets are located at both sides of the back part respectively; uninflated airbags are arranged in the hidden pockets, and the airbags are provided with inflation ports, and the inflation ports are connected with gas generators through hoses. The novel multifunctional outdoor protective clothing of the invention can be quickly converted into a life jacket for use, which can be started when people accidentally fall into the water or before rescuing people who fall into the water. The clothing is lighter in weight, lower in cost, and convenient to operate, and is suitable for outdoor activities of adults.



21: 2023/11450. 22: 2023/12/13. 43: 2024/06/18

51: H02S

71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

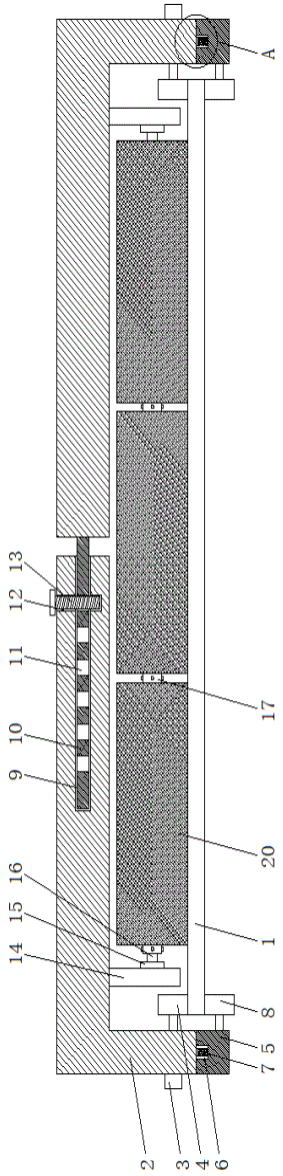
72: LI Wei, LIU Zhiqing

54: SELF-CLEANING PHOTOVOLTAIC MODULE

00: -

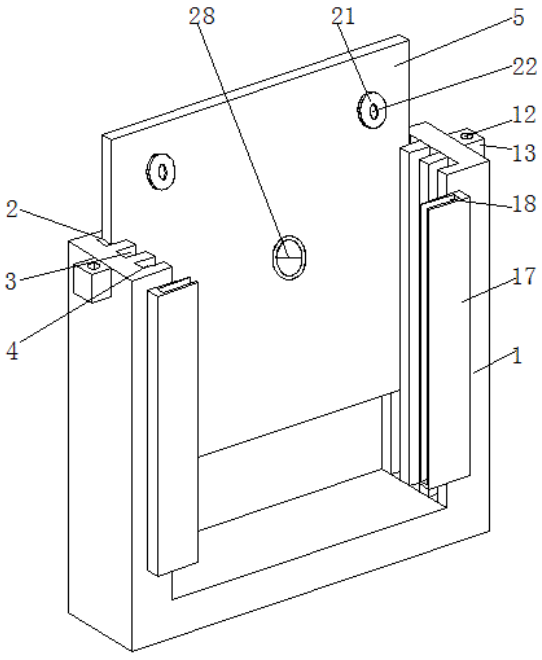
Disclosed is a self-cleaning photovoltaic module, including a photovoltaic panel frame, an autonomous moving mechanism, a telescopic adjusting mechanism and a cleaning mechanism. The moving frame is horizontally moved on the photovoltaic panel frame, the motors are symmetrically fixed at an outer side below the moving frame, and the rollers are symmetrically rotated at an inner side below the moving frame; the telescopic blocks are arranged below two sides of the moving frame, the grooves are arranged above the telescopic blocks, the springs are fixedly arranged in the grooves, the auxiliary wheels are arranged inside the telescopic blocks in a matching way, the telescopic adjusting mechanism is arranged in a middle of the moving frame, and the cleaning mechanism is arranged below the inner side of the moving frame. The invention is convenient to clamp the edge of the photovoltaic panel frame when the auxiliary wheels and the roller wheels are installed by stretching and moving with elastic blocks through the spring, solving the problem that the scraping strip may not be quickly disassembled and replaced due to the limitation of the bottom screw rods and the nut sleeves. The telescopic rods slide out of the adjusting grooves by pulling the moving frame laterally, so that the moving frame may be stretched and unfolded as required. Then the moving frame is

fixed by the fixing bolts, so as to improve the installation compatibility.



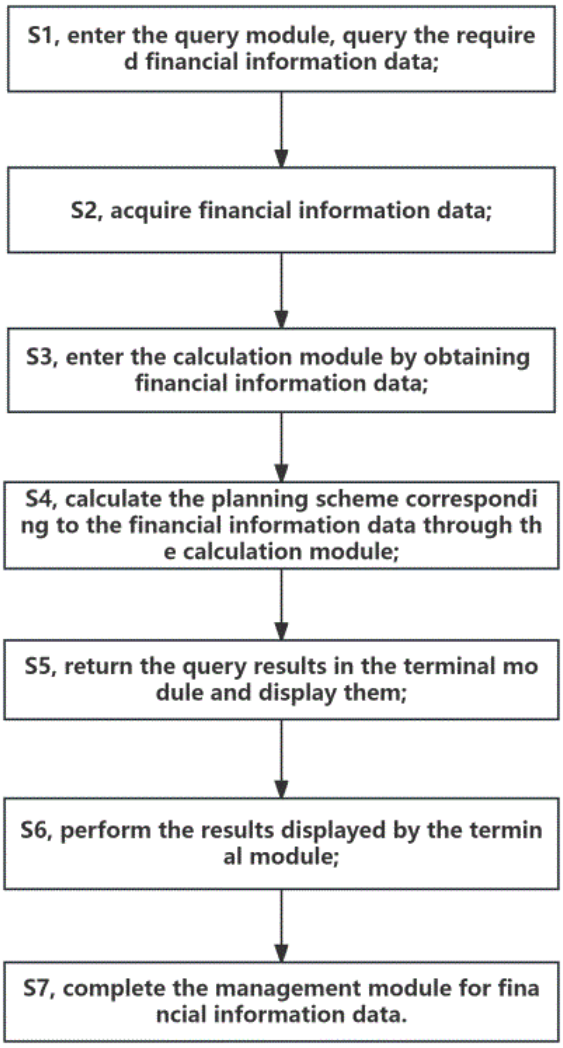
21: 2023/11451. 22: 2023/12/13. 43: 2024/06/18
51: H01L
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: LI Wei, ZHANG Renqi
54: HEAT DISSIPATION BACKSHEET FOR PHOTOVOLTAIC MODULES
00: -

Disclosed is a heat dissipation backsheet for the photovoltaic modules, including a mounting plate frame, a backsheet module and a fixing module. The backsheet module is fixedly mounted on an inner side of the mounting plate frame, and the fixing module is movably mounted above the backsheet module, so that backsheets with different functions are installed and placed for use through the backsheet module, and the placed backsheets are fixed and used again through the fixing module. The heat dissipation backsheet for photovoltaic modules may be conveniently installed behind photovoltaic panels by arranging a plurality of groups of high thermal conductivity layers, aluminum foil layers, outer weather-resistant layers and protective layers, while a top end of a left side of the backsheet is provided with a top plate and a heat dissipation sticker; the heat dissipation sticker is made of graphene, and the graphene heat dissipation sticker effectively reduces the heat on the back surface of the photovoltaic panels; meanwhile, a right end surface of the top plate is provided with a compression spring, the compression spring drives the top plate and the graphene heat dissipation sticker to cling to the back of the photovoltaic panels, so that a contact area between the heat dissipation sticker and the back of the photovoltaic panels is increased, and the heat dissipation effect of the heat dissipation sticker is improved.



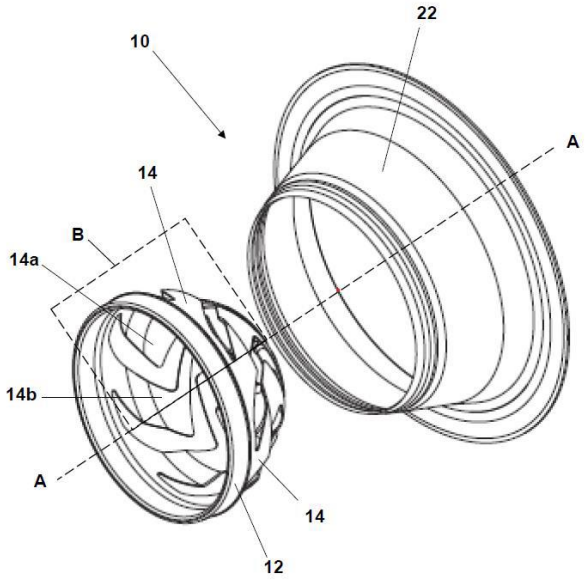
21: 2023/11452. 22: 2023/12/13. 43: 2024/06/18
51: G06Q

71: Langfang Normal University
72: Ying Chen, Fei GAO, Chunfeng ZHANG
54: A FINANCIAL MANAGEMENT METHOD AND SYSTEM
00: -
The invention relates to a financial management method and system, including the following steps: S1, enter the query module, query the required financial information data; S2, acquire financial information data; S3, enter the calculation module by obtaining financial information data; S4, calculate the planning scheme corresponding to the financial information data through the calculation module; S5, return the query results in the terminal module and display them; S6, perform the results displayed by the terminal module; S7, complete the management module for financial information data. The invention adopts a financial management method and system, which can automatically complete financial management, recording, sorting, classification and data analysis, improve the accuracy of accounting, reduce the probability of errors in the process of manual operation, so as to improve the efficiency of accounting, and the management method is simple, which can make novices quickly and correctly accounting, thus reducing the training/internship time of enterprises.

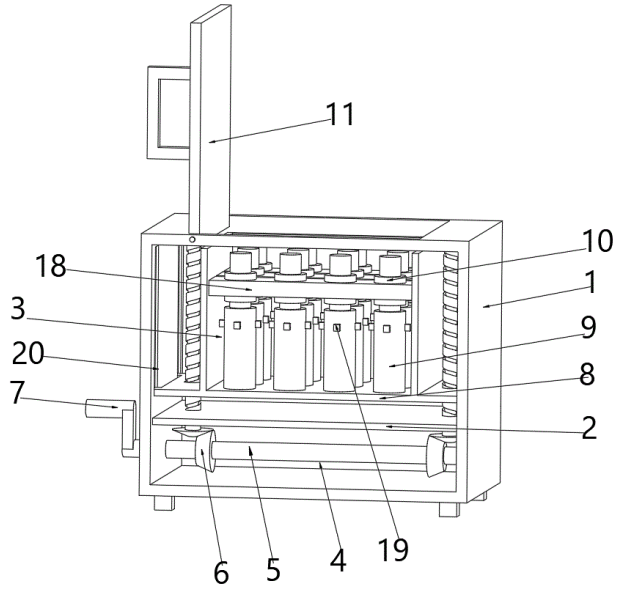


21: 2023/11453. 22: 2023/12/13. 43: 2024/07/19
51: A01G; B65D
71: LESLIE BECKER
72: LESLIE BECKER
33: ZA 31: 2022/11188 32: 2022-10-13
54: EXPANDABLE PLANT CONTAINER
00: -
The invention provides a container which comprises a ring defining a longitudinal axis; and at least three elongate flexible fingers that extend from the ring substantially in a first axial direction, characterised therein that the axial ends of the fingers proximal the ring are spaced further from each other than the axial ends of the fingers distal the ring; and the fingers are shaped such that, in respect of each adjacent pair of fingers: a virtual plane extends from the centre of the ring in the first axial direction along

the axis, and extends from the axis and intersects the point from which a first finger of the adjacent pair of fingers extends from the ring; and a second finger of the adjacent pair of fingers intersects the virtual plane without overlapping the first finger of the adjacent pair of fingers.

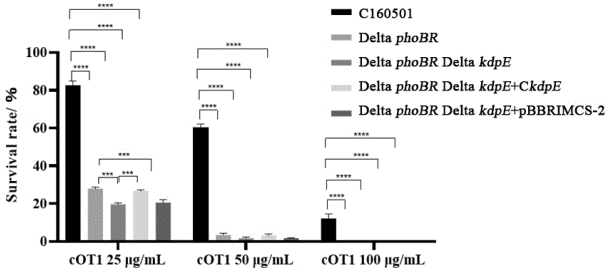


21: 2023/11454. 22: 2023/12/13. 43: 2024/06/18
51: A61D
71: Gansu Agricultural University
72: Zhao Yu, Zhang Furong, Ma Shuxin
33: CN 31: 202323121888.8 32: 2023-11-20
54: BLOOD SAMPLE COLLECTING BOX FOR ANIMAL EPIDEMIC DISEASE DETECTION
00: -
The invention discloses a blood sample collecting box for animal epidemic disease detection, wherein a fixed plate is arranged in the collecting box, and the fixed plate divides the collecting box into a test tube placing cavity and a transmission cavity; a rotating shaft is rotatably connected in the transmission cavity, and two bevel gears are oppositely arranged on the rotating shaft; one end of the rotating shaft is provided with a rotating handle which is located outside the collecting box; the fixed plate is provided with two threaded rods which rotate relatively, the bottom end of the threaded rod is provided with a second bevel gear which is meshed with the first bevel gear, and the top ends of the threaded rods are rotatably connected with the collecting box; the lifting plate is rotatably connected with two threaded rods; the lifting plate is provided with a test tube placing seat, and placing racks are arranged above the test tube placing seat; the placing racks are all provided with test tube placing holes. The invention has the advantages that: the rotating handle drives the threaded rod to lift the placing rack, which is convenient for taking and placing test tubes and preventing collision; the damping seat and the four clamping rods clamp and fix the test tubes to prevent blood sample leakage and hemolysis caused by shaking in the distribution process.



21: 2023/11455. 22: 2023/12/13. 43: 2024/06/18
51: C12N
71: Hainan University
72: Jiping Zheng, Xuesong Li, Guiying Guo, Lixia Fan, Nuo Yang, Jifeng Zeng
33: CN 31: 202311237566.1 32: 2023-09-22
54: PHOBR AND KDPE GENE DELETION STRAINS, REPLACEMENT STRAINS AND CONSTRUCTION METHODS AND APPLICATIONS OF AEROMONAS DHAKENSIS FROM CROCODILES
00: -
The invention discloses a phoBR and kdpE gene deletion strain, replacement strain and construction method and application of aeromonas dhakensis from crocodile. The phoBR and kdpE gene deletion strains were obtained on the basis of the simultaneous deletion of phoBR and kdpE genes from the wild strains of aeromonas dhakensis. The back-up strain was obtained after back-up expression of kdpE gene on the basis of the gene

deletion strain. The experiment proved that the phoBR and kdpE gene deletion strains and their replacement strains were genetically stable. Compared with wild strains and Delta-phoBR deletion strains, Delta-phoBR-Delta-kdpE deletion strains showed no difference in growth, but increased sensitivity to antimicrobial peptides. The immune protection rate of Delta-phoBR-Delta-kdpE deletion strain and its replacement strain were 43.30% and 55.60%, respectively. The invention provides a technical means for the study of a live attenuated vaccine for aeromonas dhakensis disease in crocodiles.

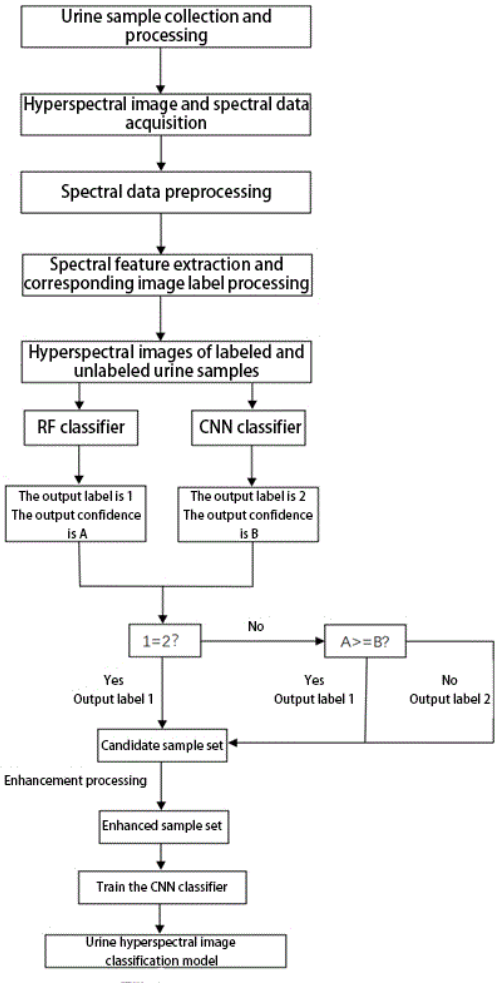


21: 2023/11456. 22: 2023/12/13. 43: 2024/06/18
51: G06T
71: The First Affiliated Hospital of Shandong First Medical University(Shandong Provincial Qianfoshan Hospital), Jinan Authority Hospital, Shandong First Medical University
72: Zunsong Wang, Yuzhen Shi, Xiangyu Hou, Ruiyang Wang, Wen Liu, Yang Li, Wenqiang Zhang, Mengyu Wu
33: CN 31: 202310961156.5 32: 2023-08-01

54: A METHOD FOR CONSTRUCTING A GLOMERULAR DISEASE CLASSIFICATION AND DIAGNOSIS MODEL BASED ON URINE SAMPLE HYPERSPECTRAL IMAGES

00: -

The invention relates to the technical field of clinical examination and diagnosis, and relates to a method for constructing a glomerular disease classification and diagnosis model based on urine sample hyperspectral images. This includes collecting and centrifuging urine samples from clinical patients; The hyperspectral images and diffuse reflection spectral data of urine samples were obtained. The hyperspectral image is preprocessed. Space-spectral features were extracted from the specific spectral bands of urine samples with different pathological types of kidney diseases, and some samples were labeled. Hyperspectral images were used to compose labeled sample sets and unlabeled sample sets. The labeled sample sets were used to train the CNN classifier and the RF classifier respectively, and then the unlabeled sample sets were identified. According to the labels and confidence obtained by the two classifiers, the original training sample set is expanded, and the candidate sample set is formed. The candidate sample set was enhanced to construct the enhanced sample set. Finally, the CNN classifier is retrained by using the space-spectral features of the enhanced sample set, and the kidney disease classification diagnosis model is obtained.



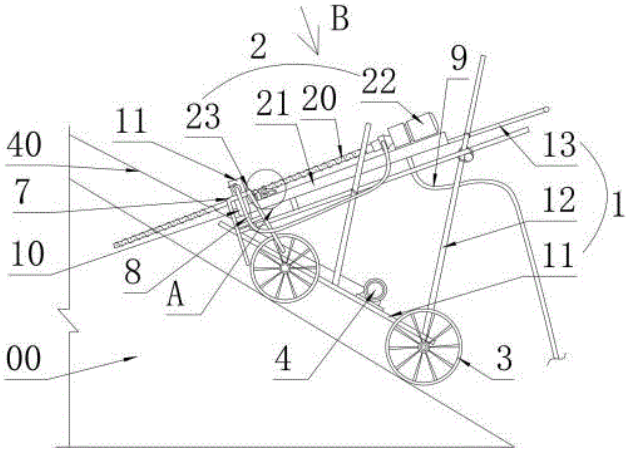
21: 2023/11461. 22: 2023/12/13. 43: 2024/06/27
51: C08L
71: ANHUI ZHONGYI RUBBER BELTS CO., LTD
72: SONG, Xin, SONG, Changjiang, ZHOU, Zhenyu, ZHANG, Yan, WANG, Jian, WANG, Jin, YUAN, Luhai, WEI, Xuemei, DOU, Mianyong

33: CN 31: 202211653891.1 32: 2022-12-22
54: ENVIRONMENT-FRIENDLY FLAME-RETARDANT RUBBER COMPOSITE WITH HIGH WEATHERABILITY AND MANUFACTURING METHOD THEREFOR
00: -
Disclosed are environment-friendly flame-retardant rubber composite with high weatherability and a manufacturing method therefor. In the present invention, ADP and MPP are compounded; firstly, an ADP/MPP hybrid flame retardant is prepared by bio-based monomer modification by GMA, then, the ADP/MPP hybrid flame retardant is subjected to macromolecular modification by SEPS, and an ADP/MPP/SEPS hybrid flame retardant master batch is prepared to be blended with EPDM/BR; and by optimizing a formula and a process, the environment-friendly flame-retardant rubber composite with high weatherability is prepared, which has excellent weather resistance, mechanical properties and flame retardancy, and does not use halogen-containing host materials, a antimony halide-containing flame retardant and a silane coupling agent, VOCS emission in a production process and toxic and noxious gas during ignition are reduced, and the composite can be used at -50 degree Celsius to 50 degree Celsius for a long time.

21: 2023/11498. 22: 2023/12/14. 43: 2024/06/18
51: E01D
71: China Railway Third Group No.2 Engineering Co., Ltd., China Railway NO.3 Engineering Group Co., Ltd.
72: Yubo Chen, Haibo Zhao, Jianjun Guo, Chenghong Liu, Liang Ma, Xuelei Li, Yingmei Wang
33: CN 31: 202310291491.9 32: 2023-03-23
54: A COMBINED CONSTRUCTION METHOD OF STEEL TRESTLE, STEEL WORKING PLATFORM AND STEEL SHEET PILE COFFERDAM
00: -
The invention proposes a combined construction method of steel trestle, steel working platform and steel sheet pile cofferdam, includes the following steps: S1: First build the island and fill the earth and rock work platform, and construct the bridge piers using the pile-first-then-weir method. That is, during the dry season, the island-building platform is used to complete the construction of the bored piles of the main pier first; S2: Use a rotary drilling rig to drill holes on the slate foundation to build steel sheet pile cofferdams, steel trestle pier columns, and steel working platform columns; S3: Then dig out the earth and stone in the cofferdam and pour concrete for the cap, and try to complete the pier construction during the dry season; S4: Excavate the island platform before the flood season, and complete the support system of the steel trestle, steel working platform and steel sheet pile cofferdam. During the construction of underwater bridges, if the present invention can comprehensively analyze factors such as river characteristics, construction period, season, surrounding environment, etc., and rationally optimize and formulate a practical and feasible underwater bridge pier deep foundation pit cofferdam protection plan, it can not only reduce the difficulty of construction, speed up the construction progress, save energy and protect the environment, but also obtain better economic and social benefits.

21: 2023/11499. 22: 2023/12/14. 43: 2024/06/18
51: E21B
71: China Railway NO.3 Engineering Group Co., Ltd., China Railway Third Group No.2 Engineering Co., Ltd.
72: Guoqing Chen, Jianghui Zhang, Bingbing Chen, Yongchuan Deng, Shuang He, Chenghong Liu, Yubo Chen, Xuelei Li
33: CN 31: 2023107510860 32: 2023-06-25
54: A MOBILE SLOPE BOLT DRILLING EQUIPMENT
00: -
A mobile slope bolt drilling equipment belongs to the technical field of the construction of subgrade slope protection, comprising a frame and a drilling device, the bottom of the frame is provided with a traveling mechanism and traveling wheels, the installation base of the drilling device is movably connected to the frame to facilitate adjustment of the inclination of the drill pipe, the drilling device is provided with a feed mechanism, and the traveling mechanism is located on the frame; the drill pipe is a hollow pipe with several air outlets on the side wall, the air inlet end of the inner cavity of the drill pipe is connected to the high-pressure air pipe, which can blow out the drilled soil in time and reduce drilling resistance. The invention installs the drilling device on the frame with the traveling mechanism and traveling wheels to facilitate it to move up and down the slope; after adjusting the inclination angle of the drill pipe, the drilling depth is controlled through the feed

mechanism, and the drilling accuracy is improved with the help of the frame. The invention has the advantages of simple structure, flexible and convenient operation, high work efficiency, it can be recycled, reduces the labor intensity of workers and construction costs, and also improves drilling accuracy.

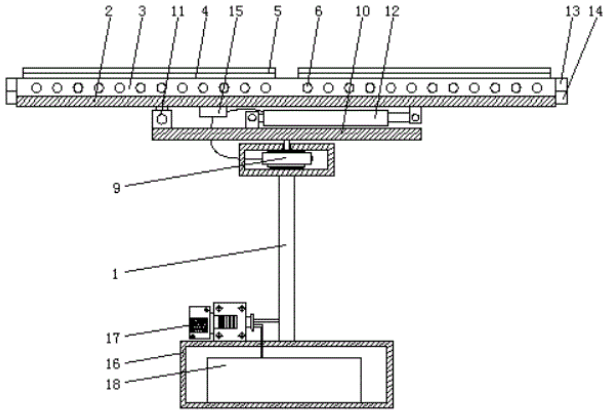


21: 2023/11500. 22: 2023/12/14. 43: 2024/06/18
51: H02S
71: Zhengzhou University
72: WANG Chaoyong, LI Zhe, WANG Kai, LIU Zhiqing, LI Wei, DU Yabing, GUO Junji, LIU Le, LIU Yuxiao, ZHANG Huiyuan, DONG Zhaofeng, XU Huafeng, SUN Peisheng

54: ADJUSTABLE PHOTOVOLTAIC SOLAR POWER GENERATION DEVICE

00: -

The invention discloses an adjustable photovoltaic solar power generation device, which includes a bracket, a mounting frame, a sliding fixing mechanism and a rotation adjusting mechanism, where the mounting frame is arranged on the bracket, the fixed guide rail is fixedly arranged on the mounting frame, the fixed frame is slidably arranged between the fixed guide rail, the fixed frame is bolted with the photovoltaic panels, fixed holes are arranged on the fixed guide rail, springs are symmetrically fixed at the bottom of the fixed frame, fixed blocks are fixedly arranged outside the springs, and a rotation adjusting mechanism is arranged between the bracket and the mounting frame. According to the invention, the fixed bracket and the fixed guide rail are in sliding fit to facilitate the removal and maintenance of the photovoltaic panels, and the fixed block is elastically pushed by the spring to clamp into the fixed hole to facilitate the installation and fixation of the fixed bracket and the photovoltaic panels after replacement, so that the photovoltaic panels can be quickly replaced and the maintenance cost can be reduced; and the DC motor drives the turntable to rotate, and the electric telescopic rod retracts and pushes the mounting frame to obliquely rotate, so that the photovoltaic panel always faces the sun, thus solving the problem that the handle needs to be manually rotated for adjustment.



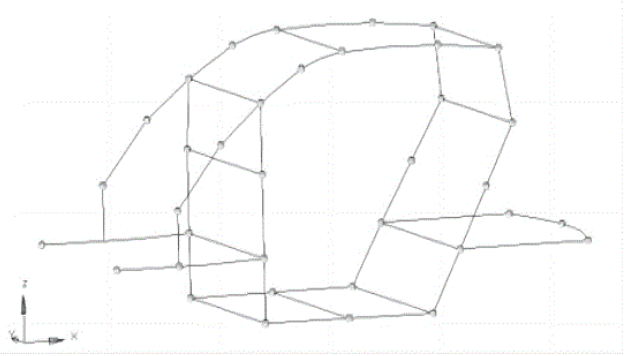
21: 2023/11501. 22: 2023/12/14. 43: 2024/06/18
51: G06F
71: Hunan University
72: Zhaohui HU
33: CN 31: 2023117063191 32: 2023-12-12

54: A CROSS SECTION OPTIMIZATION METHOD BASED ON FULL PARAMETRIC BODY MATHEMATICAL MODEL

00: -

The present invention discloses a cross section optimization method based on full parametric body mathematical model, which belongs to the field of body conceptual structure design. By establishing a simplified geometric model of truss body structure; combining with the transfer matrix method to analyze the body structure, gradually decomposing the body framework structure from by step from the whole to the local, obtaining the expression of the body bending stiffness via the equation calculation, and deriving the full parametric mathematical model of the body; the stochastic gradient genetic algorithm combining the genetic algorithm and the stochastic approximation algorithm, for the intermediate population generated by each step of genetic operation, and obtaining a single-objective optimal solution by performing the stochastic approximation

algorithm to conduct a local search; then verifying the optimization of the mathematical model based on the cross section by experiments, and the analysis results are obtained. The present invention not only ensures that the stiffness performance of the whole vehicle is optimal and the weight of the body is the lightest but also greatly reduces the modeling time and uses an analytical method to solve the problem, thereby greatly improving the computational efficiency.

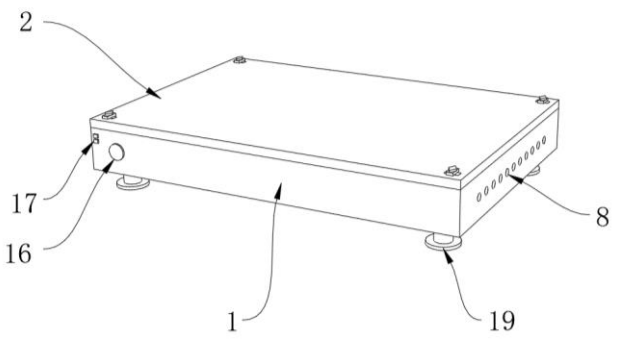


21: 2023/11504. 22: 2023/12/14. 43: 2024/06/18
51: G06F
71: Xi'an Eurasia University
72: Li Mei

54: COMPUTER SECURITY CONTROLLER BASED ON LARGE DATA

00: -

The present invention relates to the technical field of computers, and provides a computer security controller based on large data, including a machine body. A machine cover is arranged on a top of the machine body, a limiting assembly is arranged on the top of the machine body, a sliding block is fixedly connected to a bottom of the machine cover, a sliding groove penetrates through and is arranged on the top of the machine body, the sliding block is slidably connected to the sliding groove, and heat dissipation holes uniformly distributed penetrate through and are arranged on a right side of the machine body. In the present invention, the machine body and the machine cover are easy to disassemble through the linkage among limiting grooves, connecting columns, limiting blocks, the sliding block and the sliding groove.

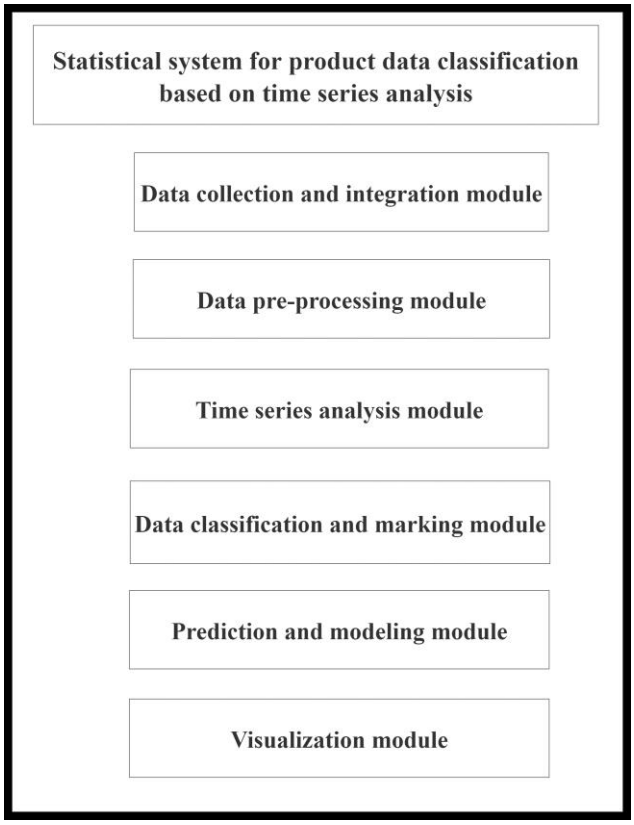


21: 2023/11505. 22: 2023/12/14. 43: 2024/06/18
51: G06F
71: Gansu Agricultural University
72: Zhu Yali

54: STATISTICAL SYSTEM FOR PRODUCT DATA CLASSIFICATION BASED ON TIME SERIES ANALYSIS

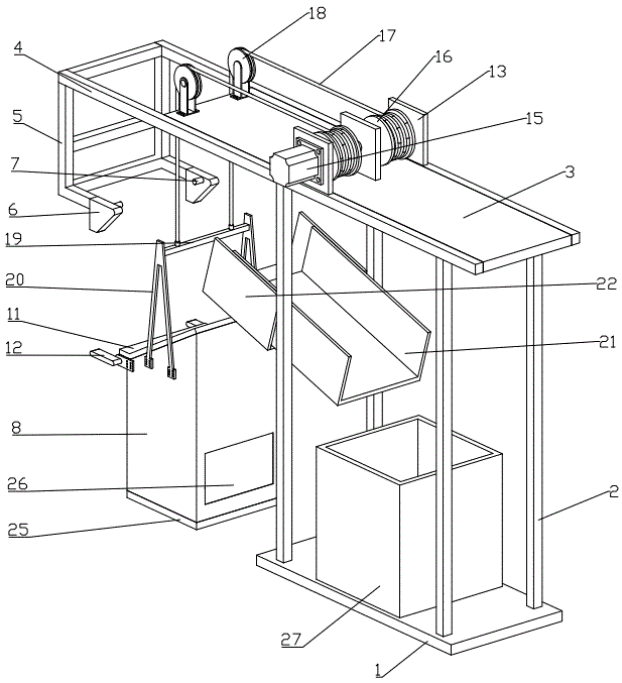
00: -

Disclosed is a statistical system for product data classification based on time series analysis, falling within the technical field of product data classification statistics. The statistical system for product data classification based on time series analysis includes a data collection and integration module, a data pre-processing module, a time series module, a data classification and marking module, a predication and modeling nodule and a visualization module. Through function and cooperation of each module in turn, the comprehensive analysis and management of data can be realized, and the efficiency and accuracy of data analysis can be improved. Based on historical data, trend analysis and periodic analysis are carried out to establish a prediction model to predict future data trends and values, realizing an effective analysis and modeling of complex data. This innovation can help enterprises better understand and use product data, optimize production and inventory management, improve work efficiency and provide decision-making reference.



21: 2023/11506. 22: 2023/12/14. 43: 2024/06/18
51: A01H
71: Inner Mongolia Academy of Agricultural and Animal Husbandry Sciences
72: ZHANG, Zhifen, FU, Xiaofeng, LIU, Junqing, YANG, Haishun, CUI, Siyu
33: CN 31: 202310334496.5 32: 2023-03-31
54: HYBRIDIZATION METHOD FOR OAT WITHOUT CUTTING GLUME AND APPLICATION THEREOF
00: -
Provided are a hybridization method for oat without cutting a glume and application thereof. The hybridization method includes: selecting a female parent and a male parent; performing emasculation on the female parent; where the emasculation operation includes: peeling the glume to remove an anther, and restoring the glume to an original state after the anther is removed; collecting male parent pollen, and performing pollination; after pollination is completed, arranging the glume, and restoring the glume to the original state. The hybridization method omits a procedure of removing the glume, and bagging is not needed, which improves working efficiency, and reduces damage to florets. The hybridization method is suitable for hybridization of most oat varieties, increases a seed setting rate and has a high hybridization success rate.

21: 2023/11548. 22: 2023/12/18. 43: 2024/06/19
51: G01N
71: CHUZHOU UNIVERSITY
72: Zhang Weiwei, Lv Riqin, Yin Peifeng, He Shixing, Zhu Shuangjie, Liu Fei
54: A WATER QUALITY DETECTION DEVICE
00: -
The present invention discloses a water quality detection device, which relates to the technical field of detection devices, including a base. A column is installed at the upper end of the base, a top plate is installed on the column, and support rods are installed on both sides of the top plate. One end of the support rod is equipped with an "L" - shaped connecting rod, and one end of the connecting rod is equipped with an extrusion block. A toggle rod is installed on the inner wall of the opposite side of the two extrusion blocks, and a moving mechanism that drives the sampling bucket to move up and down is installed on the upper end of the top plate. An installation platform is connected to the side wall of the opposite side of the sampling bucket near the upper end, and a rotating rod is connected between the two installation platforms. A filter screen is installed on the rotating rod, and push blocks are installed on both sides of the rotating rod. The present invention contacts and squeezes the pushing block when the sampling bucket moves upwards, and the pushing block drives the rotating rod to flip the filter screen, remove impurities from the filter screen, and avoid clogging of the filter screen. When the sampling bucket moves downwards, the rotating rod reseals the filter screen on the sampling bucket, thereby achieving automatic cleaning.

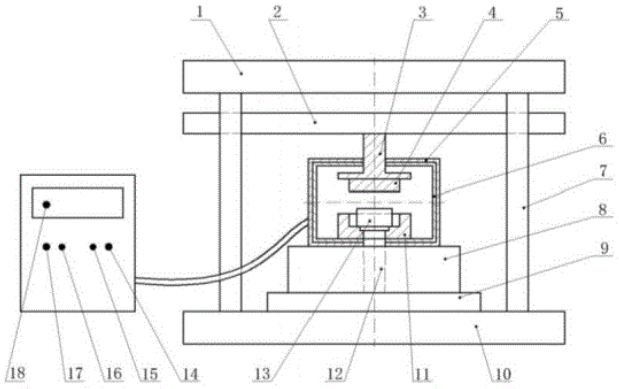


21: 2023/11549. 22: 2023/12/18. 43: 2024/06/19
51: C08L
71: Wengfu (Group) Co., LTD, Guizhou Minzu University
72: Daohai ZHANG, Guilan LIU, Lianjun SHI, Qianlin CHEN, Tian XIE
54: A THERMOPLASTIC POLYURETHANE/PHOSPHOGYPSUM COMPOSITE MATERIAL AND A PREPARATION METHOD THEREOF AND ITS APPLICATION
00: -
The invention relates to a thermoplastic polyurethane/phosphogypsum composite material and a preparation method and application thereof, belonging to the field of high performance composite material. The thermoplastic polyurethane/phosphogypsum composite material and its preparation method are composed of 60-90 parts of thermoplastic polyurethane, 10-40 parts of phosphogypsum, 1-5 parts of dispersant, 1-5 parts of silane coupling agent, 0.1-1 part of antioxidant and 5-10 parts of compatibilizer according to weight. The invention also discloses the preparation method and application of the thermoplastic polyurethane/phosphogypsum composite material and the preparation method thereof. The thermoplastic polyurethane/phosphogypsum composite material and its preparation method can increase the crystallization temperature, accelerate the crystallization rate, improve the degree of crystallinity, refine the grain, so that the composite material has excellent aging resistance, excellent interface compatibility and excellent mechanical and mechanical properties.

21: 2023/11550. 22: 2023/12/18. 43: 2024/06/19
51: A01N
71: Institute of Agricultural Applied Microbiology, Jiangxi Academy of Agricultural Sciences
72: YAO Yingjuan, XU Xueliang, YAO Jian, FAN Linjuan, WU Caiyun, ZHANG Fan, LIU Zirong
54: COMPOSITION FOR PREVENTING AND CONTROLLING YAM NEMATODES AND APPLICATION THEREOF
00: -
The invention discloses a composition for preventing and controlling yam nematodes and an application thereof, and relates to the technical field of plant disease prevention and control. The composition includes matrine and fluazaindolizine, and the mass ratio of matrine to fluazaindolizine is 1:(2.5-10). The invention develops a composition for preventing and controlling yam nematodes, which includes matrine and fluazaindolizine. According to the research of the invention, it is found that matrine and fluazaindolizine are compounded within the range of 1:(2.5-10) according to the mass ratio, and have a synergistic effect in preventing and controlling yam nematodes. Compared with a single agent, the composition for preventing and controlling yam nematodes provided by the invention can obviously improve the prevention and control effect on yam root-knot nematodes, and is beneficial to reducing the use amount of pesticides, thereby reducing the production cost and environmental pollution.

21: 2023/11551. 22: 2023/12/18. 43: 2024/06/19
51: B21J
71: Taiyuan University of Technology
72: Changjiang ZHANG, Xiaojian LIANG, Fan PENG, Hong FENG, Kun LUO, Dong LIU
33: CN 31: 2022116429990 32: 2022-12-20
54: A VACUUM ISOTHERMAL FORGING PROCESS AND DEVICE SUITABLE FOR HIGH TEMPERATURE TITANIUM-BASED MATERIALS
00: -
The present invention discloses a vacuum isothermal forging process and device suitable for high temperature titanium-based materials, which relates to the field of isothermal forging technology,

wherein it includes a heating furnace, the punch is connected with the pressure head through high temperature bolts, and the die is fixedly connected with the lower mold seat through high temperature bolts; the lower wall of the heating furnace is equipped with a unloading device, which is convenient to put the blank material into and take out the forming forgings, the vacuum pump set and oxygen measuring device equipped in the heating furnace can realize the monitoring of vacuum environment and oxygen content in the furnace during isothermal forging process, the device can ensure that the whole process from blank material and mold heating to subsequent forging process is completely closed, which can ensure the accuracy and performance of the final molded parts and prolong the service life of the mold. It can realize almost all the heat treatment processes involved in conventional heat treatment, and can realize vacuum isothermal forging in the true sense.

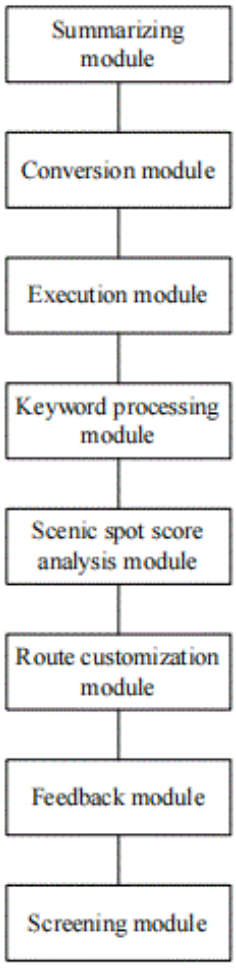


21: 2023/11552. 22: 2023/12/18. 43: 2024/06/19
51: G06F
71: Henan University of Urban Construction
72: YU, Huixia, JIA, Faxian, LONG, Dan, LAN, Na, QIAO, Jiaxin, YANG, Lu

54: DIGITAL TOUR ROUTE CUSTOMIZATION MANAGEMENT SYSTEM

00: -

The present invention relates to a digital tour route customization management system and belongs to the field of digital tour route customization. The system includes a summarizing module, a conversion module, an execution module, a keyword processing module, a scenic spot score analysis module, a route customization module, a feedback module and a screening module. Through cooperation of the plurality of functional modules, a plurality of associated digital tour routes are subjected to overall customization management rather than being simply spliced and converted, so that a situation that the obtained product routes deviate greatly is avoided.



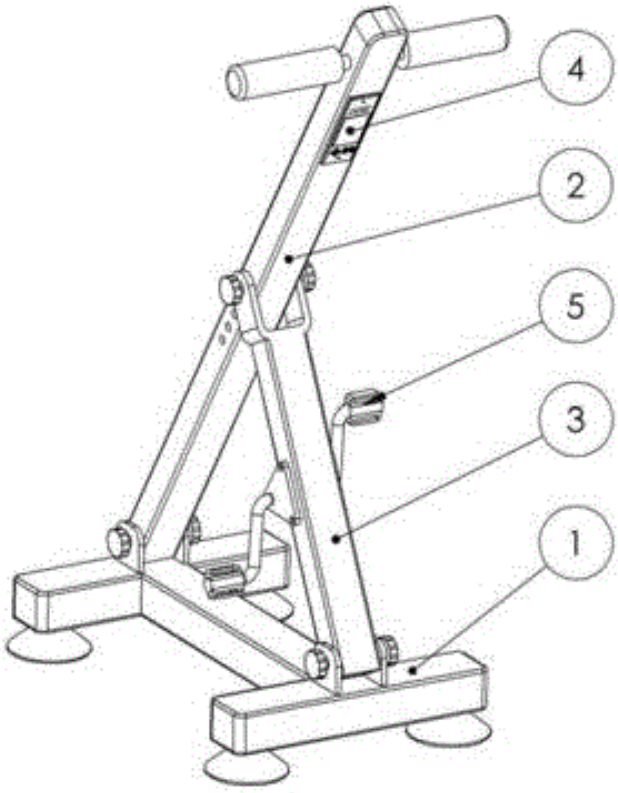
21: 2023/11553. 22: 2023/12/18. 43: 2024/06/19
51: A63B
71: The Second People's Hospital of Lishui
72: WU Shaochang

54: PEDAL REHABILITATION INSTRUMENT WITH SOUND WAVE THERAPY FUNCTION

00: -

The invention provides a pedal rehabilitation instrument with sound wave therapy function, which comprises an I-shaped base, a first square tube and a second square tube which are connected with each other; the low end of that first square tube is connected with one end of the I-shaped base; the low end of that second square tube is connected with the other end of the I-shape base, and the

upper end is connected with the middle part of the first square tube; the upper end of the first square tube is embedded with an audio playing module; the middle part of the second square tube is provided with a pedal assembly. The invention is simple in structure and convenient to use, and mental patients or the elderly can perform simulated bicycle rehabilitation training only by sitting on a sofa or a seat, stepping on the pedal and holding the handle, without stepping on or off the pedal rehabilitation device, so that the training is simpler, and accidents such as falls when the user steps on or off the pedal rehabilitation device are avoided; the invention is also designed with an audio playing module, so that users can listen to 40 Hz audio while training, and play a role in treating and improving mental illness.



21: 2023/11554. 22: 2023/12/18. 43: 2024/06/19
51: A23N
71: Hebei Normal University of Science & Technology（
72: Chen Lidong, Zheng Wanzhong, Yin Degang, Ren Xiaoguang, Cheng Hui, Li Guofang
33: CN 31: 2023101354163 32: 2023-02-20

54: AN AUTOMATIC CHESTNUT DEHUSKING DEVICE AND DEHUSKING METHOD

00: -

The present invention discloses an automatic chestnut dehusking device and a dehusking method, comprising a feeding box. Characteristically, both inner walls on the two sides of the feeding box are equipped with first slide rails, and the bottom of the feeding box is fixedly installed with a dehusking box. On one side of the inner wall of the two first slide rails, a first slide block is fixedly mounted, and on one side of the surface of the two first slide blocks, a sieve is fixedly connected. The dehusking box is fixedly installed at the bottom of the feeding box. This invention utilizes the sieve inside the feeding box to screen the chestnut husks, directing varying sizes of chestnut husks to the left and right sides of the dehusking box. This allows different thicknesses of rubber blocks on the squeezing pieces on the two rollers in the dehusking box to thoroughly dehusk different sizes of chestnut husks, ensuring complete dehusking and enhancing the yield of chestnut kernels. Additionally, the rubber sheets on the inner wall of the dehusking box and the rubber blocks on the squeezing pieces protect the chestnuts, maintaining their quality and ultimately increasing profits.

21: 2023/11555. 22: 2023/12/18. 43: 2024/06/19
51: A01K
71: Dr. Vinayak Krishnaji Patki, Dr. Shrikant Jahagirdar, Amol Anand Phatak, Avinash Kashinath Lavnis, Girish Jivaji Kulkarni
72: Dr. Vinayak Krishnaji Patki, Dr. Shrikant Jahagirdar, Amol Anand Phatak, Avinash Kashinath Lavnis, Girish Jivaji Kulkarni

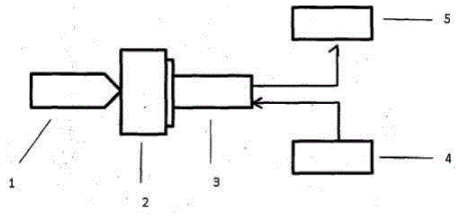
54: AN APPARATUS FOR MONITORING AND CONTROLLING WANDERING ANIMALS TO ENHANCE ROAD SAFETY

00: -

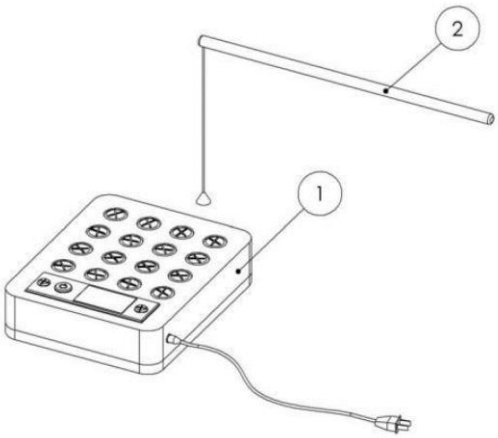
Embodiments of the present invention provide an apparatus having a housing that is sized and configured to be mounted about at least one body part of an animal. In a preferred embodiment the apparatus is described in use with a cow, however, as noted above, the inventive apparatus may be implemented with any animal. The apparatus has a transceiver unit that allows the movement of the cow to be tracked remotely via GPS or other wireless tracking. Rather than using physical fences, boundary areas can be set up on a computer map and the inventive system and method tracks the

movement of the cow. The apparatus is able to detect when the animal is approaching the boundary of a bounded area. Noises, shocks, vibrations, etc., produced by equipment attached to, or located in, the animal monitoring and controlling apparatus are automatically activated to direct the cow away from the boundary and keep the animal in the “fenced in” area. The signals may be increased in intensity/volume until the desired response is achieved.

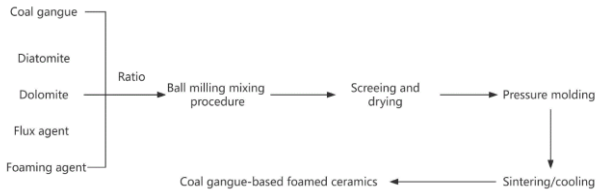
21: 2023/11556. 22: 2023/12/18. 43: 2024/06/19
51: G01N
71: Southwest University
72: LI, Jiaxing
54: SYSTEM FOR MEASURING PROPORTIONS OF COMPONENTS OF COMPOSITE MATERIAL BASED ON GAMMA RAYS
00: -
The present invention relates to a system for measuring proportions of components of a composite material based on gamma rays, which relates to the field of nuclear physics. The measuring system includes a sealed radioactive source, a scintillation detector, a multichannel pulse analyzer, a high voltage power supply, and an upper computer. The sealed radioactive source is configured to emit gamma rays, the scintillation detector is provided on the emitted light path of the sealed radioactive source, a composite material to be measured is provided between the sealed radioactive source and the scintillation detector, and centers of the sealed radioactive source, the composite material to be measured, and the scintillation detector are located on a straight line. The present invention improves the accuracy of the measurement of the proportions of the components of the composite material.



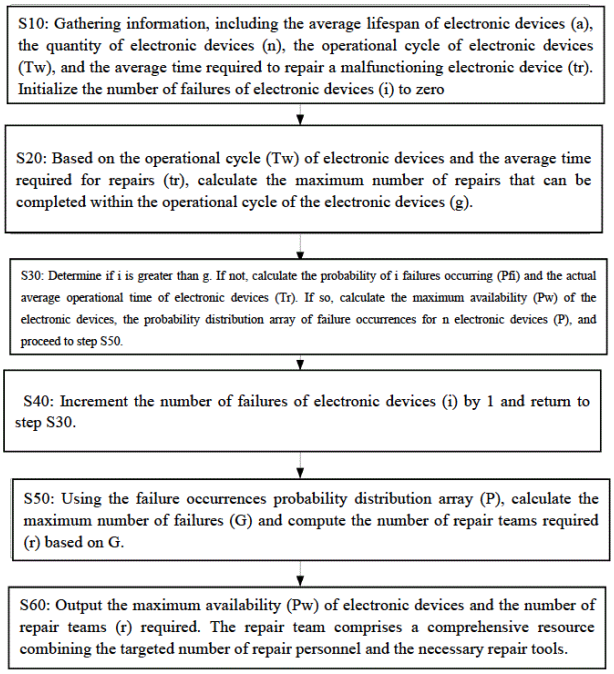
21: 2023/11557. 22: 2023/12/18. 43: 2024/06/19
51: A61H
71: The Second People's Hospital of Lishui
72: YE Shiwei
54: DEVICE FOR ASSISTING PATIENTS TO RECOVER COGNITION BY SIMULATING FISHING ENVIRONMENT
00: -
The invention provide a prop for assisting patients to recover cognition by simulating fishing, which includes a fishing box and a fishing rod; the fishing box includes a bottom plate, and a box body is arranged on the bottom plate; a control module is embedded in the box body; a plurality of through holes are arranged in the box body; the through holes are provided with fish-shaped columns; numbers are embedded above the fish-shaped columns; a plurality of gravity sensors are arranged on the bottom plate; the fishing rod includes a rod body, a wire and a magnet block; the device for assisting patients to recover cognition by simulating fishing environment is simple in structure and convenient to use, and the software for simulating fishing by computer is materialized, so that middle-aged and elderly people or patients with low education level can also receive instructions, concentrate and use their hands and brains through fishing game training, thereby relaxing their mood and improving mental illness.



21: 2023/11558. 22: 2023/12/18. 43: 2024/06/21
51: C04B
71: Xingxian Economic Development Zone Aluminum Magnesium New Material R&D., Ltd, Taiyuan University of Technology
72: Yongzhen WANG, Peisheng REN, Xiaomin WANG
54: A COAL GANGUE-BASED FOAMED CERAMIC AND ITS PREPARATION METHOD
00: -
The present invention relates to the preparation technology of coal gangue-based foamed ceramics, in particular to a coal gangue-based foamed ceramic and its preparation method. According to the mass fraction of raw materials, it includes the following components: coal gangue 60 ~ 90 parts, diatomite 5 ~ 35 parts, dolomite 5 ~ 10 parts, flux agent 1 ~ 3 parts, foaming agent 1 ~ 5 parts. The present invention uses coal gangue as the main raw material, and adds dolomite with fluxing effect, which reduces the formation temperature of the liquid phase in molten state, thus reducing the firing temperature; in addition, by controlling the amount of diatomite and foaming agent, the viscosity of the liquid phase in molten state is matched with the rate of bubbles generated by the foaming agent, so as to obtain a foamed ceramic material with uniform internal pore structure distribution. The foamed ceramic material prepared by using coal gangue as raw material has a wide range of raw materials and low cost; meanwhile, the foamed ceramic material prepared by using coal gangue as raw material has low density, high strength and low thermal conductivity, which provides a cost-effective inorganic thermal insulation material for energy saving and consumption reduction in the construction field.

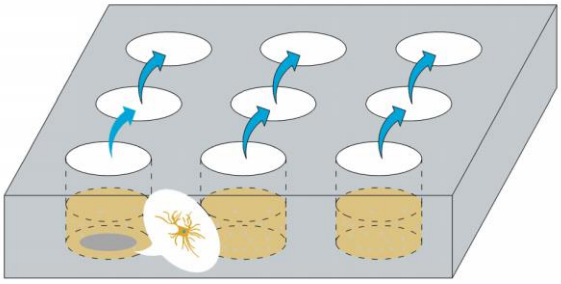


21: 2023/11559. 22: 2023/12/18. 43: 2024/06/19
51: G06F
71: Southwest University
72: Qiu Junyi, Lyu Meining, Li Jinhui, Wang Jie, You Fengming, Dong Tao
33: CN 31: 202311435233X 32: 2023-10-31
54: AN OPTIMIZED ESTIMATION METHOD FOR THE MAINTENANCE RESOURCE REQUIREMENTS OF ELECTRONIC DEVICES, A CONTROL DEVICE, AND A READABLE STORAGE MEDIUM
00: -
This invention presents an optimized estimation method, a control device, and a readable storage medium for the resource demands in repairing electronic devices. The method for optimizing the resource demands in repairing electronic devices involves the following steps: gathering information; calculating the maximum repair frequency, 'g', achievable within the working cycle of the electronic device; determining the probability 'Pfi' of 'i' failures occurring; computing the actual average repair time, 'Tr', for repairing the electronic devices; estimating the maximum availability 'Pw' of the electronic devices, the probability distribution array 'P' for 'n' device failures; determining the maximum failure frequency, 'G'; calculating the number of repair teams 'r' required for servicing the electronic devices; outputting the maximum availability 'Pw' of the electronic devices and the number of repair teams 'r'. This method reduces reliance on the experience of maintenance managers and ensures electronic devices remain as operational as possible while effectively saving on maintenance costs.



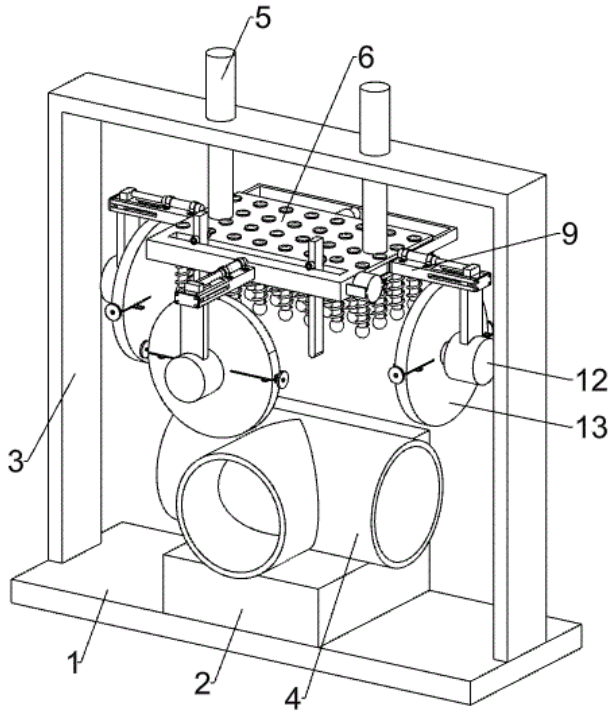
21: 2023/11560. 22: 2020/05/29. 43: 2024/05/15
51: A61K A61P
71: TECNIMEDE- SOCIEDADE TÉCNICO-MEDICINAL, SA
72: OLIVEIRA MACHUCO ESTEVENS, Maria, Catarina, SILVA MARQUES DA COSTA, Ricardo Manuel, SILVA SERRA, João, Pedro, PARDAL FILIPE, Augusto, Eugénio
33: PT 31: 115557 32: 2019-05-31
54: IMMEDIATE RELEASE FIXED-DOSE COMBINATION OF MEMANTINE AND DONEPEZIL
00: -
The present disclosure relates immediate release fixed-dosed combination pharmaceutical composition comprising the active pharmaceutical ingredients Memantine and Donepezil for the treatment of moderate to severe Alzheimer's disease.

21: 2023/11561. 22: 2023/12/18. 43: 2024/06/19
51: C12N
71: GUIZHOU MEDICAL UNIVERSITY
72: LIU, Yanjie, ZHOU, Xiao, AI, Fujun
54: CONTACT MIXED CULTURE METHOD OF GLIAL CELLS AND NEURONS
00: -
The present invention provides a contact mixed culture method of glial cells and neurons, relates to the technical field of cell culture, and solves the technical problems of few sources of existing contact co-culture materials, high culture cost, complex culture process and low survival rate. The method mainly comprises the following steps: collecting glial cells and neurons from brain tissues of adult rats or aged rats, combining, inoculating without buffer exchange in the early stage, pipetting half of suspended cells and a culture medium into another well when clear suspended cell spheres are observed, supplementing with a complete medium, continuing to culture, continuously distributing the suspended cells and the culture medium until a cell density meets the requirement of contact co-culture, and forming contact co-culture of the glial cells and the neurons after 20-24 days of culture to form a neuron network and a glial background more stably. The present invention takes adult rats or old rats as a source, has a low cost and good repeatability, can obtain cells with a certain yield, has a long survival time of the cells, and is suitable for long-time observation.



21: 2023/11564. 22: 2023/12/18. 43: 2024/06/19
51: F16L
71: Hebei Century New Star Pipe Industry Co., Ltd
72: Fan Xinglong
33: CN 31: 202311678095.8 32: 2023-12-08
54: THREE-WAY PIPE FITTING PROCESSING DEVICE
00: -
Disclosed is a three-way pipe fitting processing device, including a supporting bracket. A bracket includes a base plate and the bracket arranged on the base plate, a seat platform for placing a three-way pipe is arranged on the base plate, first pushing rods are arranged on the bracket, telescopic ends of the first pushing rods are arranged with a pressing plate, and a polishing component for processing nozzles is arranged on side walls of the pressing plate corresponding to nozzle positions of the three-

way pipe; and the polishing component includes supporting arms arranged on the side walls of the pressing plate, second pushing rods are arranged on the supporting arms, connecting plates are arranged on the supporting arms in a sliding mode, second driving machines are arranged on the connecting plates, and output ends of the second driving machines are arranged with polishing discs. According to the present invention, the polishing component is arranged, after the three-way pipe is fixed, three nozzles can be polished at the same time, which is convenient in operation and time-saving, and improves the work efficiency at the same time.

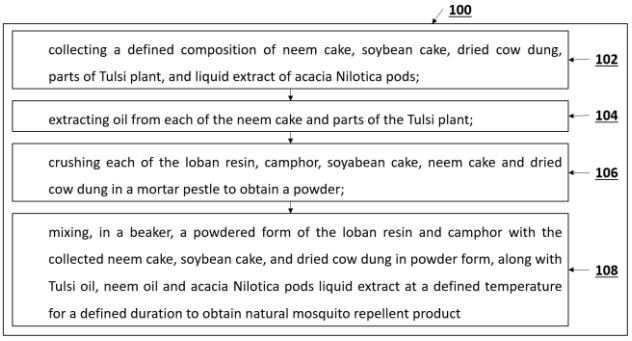


21: 2023/11565. 22: 2023/12/18. 43: 2024/06/19
51: A01N
71: Dr. Amrut Gunwantrao Gaddamwar, Magdi Elsayed Abdelsalam Zaki, Sami Abdul Aziz Al-Hussain, Dr.Vijay Hariram Masand
72: Dr. Amrut Gunwantrao Gaddamwar, Magdi Elsayed Abdelsalam Zaki, Sami Abdul Aziz Al-Hussain, Dr.Vijay Hariram Masand

54: COMPOSITION AND METHOD FOR SYNTHESIS OF NATURAL MOSQUITO REPELLENT PRODUCT FROM SOYABEAN CAKE

00: -

A composition and method (100) for synthesizing of natural mosquito repellent product, comprises of: collecting a defined composition of neem cake, soybean cake, dried cow dung, parts of Tulsi plant, and liquid extract of acacia Nilotica pods; extracting oil from each of the neem cake and parts of the Tulsi plant; crushing each of the loban resin, camphor, soyabean cake, neem cake and dried cow dung in a mortar pestle to obtain a powder; and mixing, in a beaker, a powdered form of the loban resin and camphor with the collected neem cake, soybean cake, and dried cow dung in powder form, along with Tulsi oil, neem oil and acacia Nilotica pods liquid extract at a defined temperature for a defined duration to obtain natural mosquito repellent product.



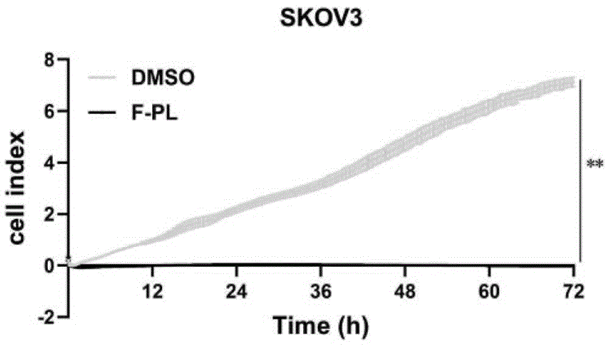
21: 2023/11567. 22: 2023/12/18. 43: 2024/06/19
51: A61K
71: FIRST AFFILIATED HOSPITAL OF CHONGQING MEDICAL UNIVERSITY
72: LINGHU Hua, LI Ruonan
33: CN 31: 202211136057.5 32: 2022-09-19

54: APPLICATION OF FLUOROPYRIDOXAL IN PREPARING MEDICINE FOR COPING WITH CANCER

00: -

The present disclosure belongs to the technical field of biomedicine, and discloses application of fluoropyridoxal in preparing medicine for coping with cancer, which includes application of fluoropyridoxal in preparing medicine for preventing and/or relieving and/or treating cancer. The cancer is ovarian cancer. The medicine for preventing and/or relieving and/or treating cancer includes the fluoropyridoxal and a pharmaceutically acceptable carrier. A dosage form of the medicine for preventing and/or relieving and/or treating cancer is tablets, granules, capsules, suspending agents, syrup, emulsion, or injection. The fluoropyridoxal induces senescent-like death, cycle arrest and apoptosis of cancer cells. The fluoropyridoxal acts by inducing the apoptosis of the cancer cells. The fluoropyridoxal of the present

disclosure can effectively inhibit proliferation and growth of human ovarian cancer cell lines SKOV3, OVCAR3, 3AO, and ES-2. The fluoropyridoxal of the present disclosure can be used as effective medicine for treating the ovarian cancer.

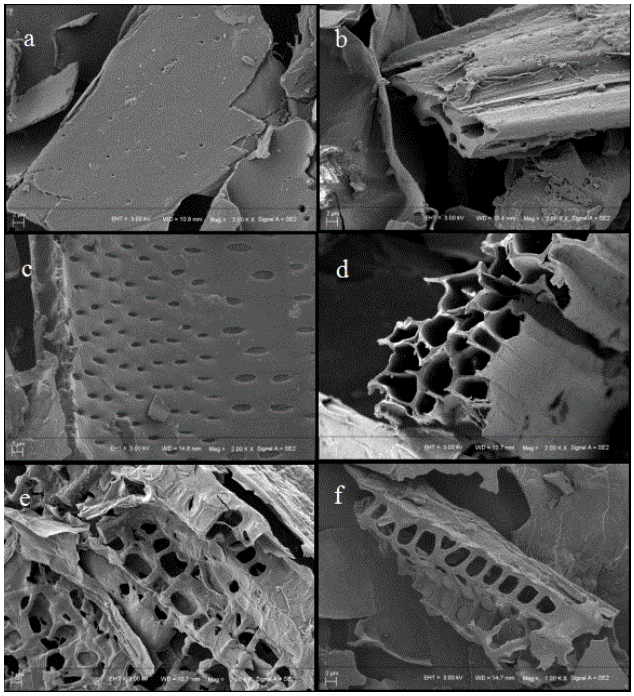


21: 2023/11577. 22: 2023/12/18. 43: 2024/06/19
51: C01B
71: Anhui University of Science and Technology
72: Meng Fanbin, Zhao Ziren, Li Feiyue, Li Xiaoliang, Xie Yue, Wang Jianfei, Tu Debao, Li Zhong, Wu Wenge

54: METHOD AND APPLICATION OF BIOCHAR PREPARATION FROM BIOMASS USING FREEZE-THAW CYCLING

00: -

This invention belongs to the field of biochar preparation technology and discloses a method and application for preparing biochar from biomass using freeze-thaw cycling. It includes the following steps: S1, crushing and sieving biomass, drying it, mixing it with water for soaking, and subjecting it to freeze-thaw cycling at -80 to -10 degrees Celsius to obtain a precursor after drying; S2, placing the precursor in a container, subjecting it to pyrolysis at 300 to 700 degrees Celsius, cooling it to room temperature after pyrolysis, and grinding and sieving to obtain biochar. This invention utilizes a simple freeze-thaw cycling pre-treatment of biomass to regulate the pore structure of biochar. The pre-treatment only requires water as a medium, making it simple, cost-effective, non-polluting, and suitable for large-scale production, representing a potential method for precise control of micropores in activated carbon.



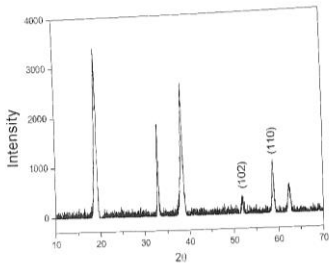
21: 2023/11582. 22: 2023/12/18. 43: 2024/06/21
51: H01M
71: CHINA PETROLEUM & CHEMICAL CORPORATION, SHANGHAI RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY, SINOPEC
72: ZHANG, Tongbao, ZHANG, Yu, WANG, Biwei, ZHU, Ye, CHEN, Fang, GAO, Huanxin
33: CN 31: 202110545464.0 32: 2021-05-19

54: LITHIUM BATTERY POSITIVE ELECTRODE MATERIAL PRECURSOR, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF

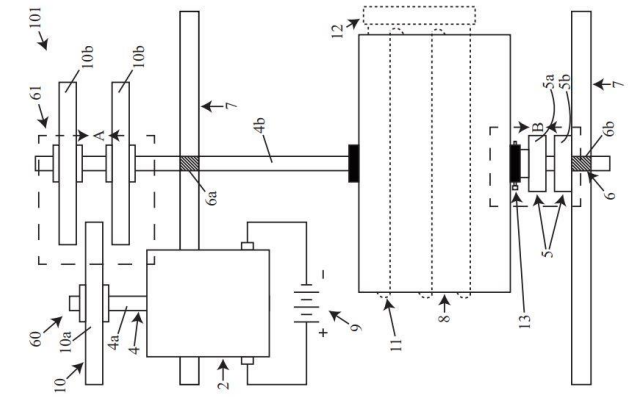
00: -

A lithium battery positive electrode material precursor, a preparation method therefor and the application thereof. The positive electrode material precursor has the chemical formula NixCoyMzTp(OH)q. The positive electrode material precursor contains secondary particles in the form of a microsphere that is formed by the agglomeration of primary particles. The microsphere has a structure of three layers from inside to outside, i.e. an inner core layer, an intermediate layer and an outermost layer, wherein the ratio of intensities of crystal plane diffraction peaks (110) and (102), which are represented by peak heights, in an XRD diffraction pattern of the inner core layer of the microsphere is 1.0-8.0. A positive electrode material prepared by using the positive electrode material precursor has a

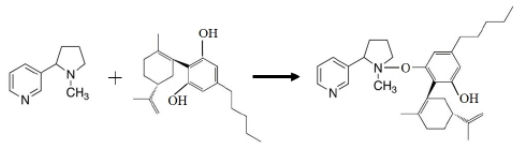
high specific discharge capacity and good cycle stability, and can be used in a high-performance lithium battery.



21: 2023/11593. 22: 2023/12/18. 43: 2024/06/19
51: F16C; F16D; F16F; H02J; H02K; H02N
71: GREEN LAB IP NOMINEE PTY LTD
72: FRENCH, Eon, EDMONDS, Glenn, FRENCH, Andrew
33: AU 31: 2021901797 32: 2021-06-16
33: AU 31: 2022901379 32: 2022-05-23
54: SYSTEMS AND METHODS FOR POWER GENERATION, TRANSMISSION, AMPLIFICATION AND/OR STORAGE
00: -
A machine (101) including a vertical rotatable shaft (4b) levitated by magnets (5) so as to minimize frictional losses. Magnets (5) are arranged on the machine body (7) and/or the shaft (4b) of the machine (101) to thereby exert a repelling force so that the rotating shaft (4b) is uplifted against gravitational forces. The machine (101) may additionally or alternatively incorporate a magnetic bearing (6), a variable inertia flywheel (24), a magnetic gear (29), and/or a magnetic clutch (19). The magnetic gear (29) may incorporate arrow shaped magnets (28).

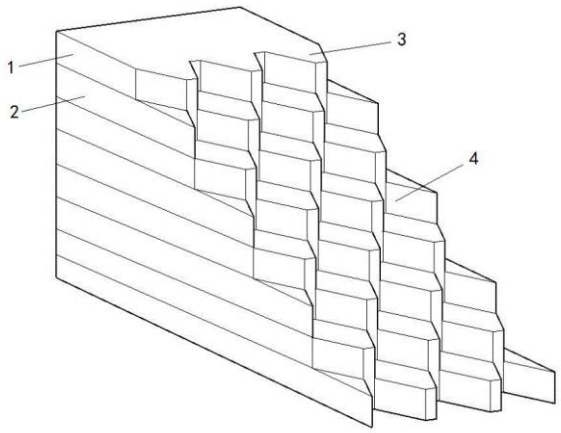


21: 2023/11602. 22: 2023/12/18. 43: 2024/06/20
51: A24B; A24F
71: ZHANGJIAGANG ALIEN NEW MATERIAL TECHNOLOGY CO., LTD
72: Ting FENG
33: CN 31: 202110558047.X 32: 2021-05-21
54: COMPOUND OF REACTION OF ALKALOID AND PHENOL, ATOMIZATION LIQUID, CARTOMIZER AND ELECTRONIC ATOMIZER
00: -
Disclosed are a reaction compound of alkaloid and phenol, an e-liquid, an atomizing cartridge and an electronic atomizer. The reaction compound of alkaloid and phenol comprises a combined state R-PH-O-N-I obtained by means of the chemical reaction of an alkaloid and a phenol, and the general formula of the chemical reaction is R-PH-OH + N-I → R-PH-O-N-I. A reactant alkaloid and a reactant phenol are added into a reaction vessel, and heated and stirred continuously at 40-300 ºC for 0.1-6000 minutes to obtain the reaction compound of alkaloid and phenol. In this way, the reaction compound of alkaloid and phenol, the e-liquid and the atomizing cartridge better the original choking irritation of the alkaloid in the electronic atomizer, which is beneficial for the mouth inhalation, does not cause troubles such as "acidosis", "acid excess" and "sour smell", and can provide a faster, more pleasant and satisfying suction experience.



21: 2023/11611. 22: 2023/12/19. 43: 2024/06/20
51: E02B
71: Zhejiang University of Water Resources and Electric Power
72: Yu Zhou, Fuqing Bai, Xiujun Hu, Feng Xie, Zhichao Hu, Yuanyuan Wang, Qian Mao, Zhan Shu, Jiakai Mei, Yuan Guo, Peisheng Qiu, Jing Li
54: A STAGGERED BROKEN-LINE STEPPED SPILLWAY
00: -
The invention discloses a staggered broken-line stepped spillway. The staggered broken-line stepped spillway comprises a plurality of odd-numbered stages and a plurality of even-numbered stages, wherein the odd-numbered stages and the plurality

of even-numbered stages are alternately stacked together in the vertical direction and form a step shape on one side; a plurality of trapezoidal protrusions are formed on the step-shaped side face formed by the odd-stage steps and the even-numbered stages, and the plurality of trapezoidal protrusions are arranged at equal intervals in the horizontal direction; and a plurality of trapezoidal grooves are formed in the step-shaped side face formed by the even-numbered stages of steps and the odd-numbered stages; a plurality of trapezoidal protrusions are in one-to-one correspondence with the trapezoidal grooves and are matched in shape; the bottom surfaces of the trapezoidal grooves and the top surfaces of the trapezoidal protrusions are located in the same vertical plane and are vertically aligned. According to the staggered broken-line stepped spillway form, the advantage that the broken line weir can improve the drainage capacity is applied to the spillway, the drainage capacity of the spillway can be improved, and the safety of the drainage building and people and properties can be better guaranteed.



21: 2023/11612. 22: 2023/12/19. 43: 2024/06/20
51: C08G
71: Xinnaqi Material Technology Jiangsu Co., Ltd.
72: Yue YU, Shoubin XU, Lina HU

54: A METHOD FOR PREPARING A HIGHLY COMPATIBLE TACKIFIER FOR SILICONE RUBBER

00: -

The present invention discloses a method for preparing a highly compatible tackifier for silicone rubber, which includes the following steps: S1, adding DMC and aminoethyl aminopropyl trimethoxysilane into a first reaction kettle, stirring and increasing the temperature, adding a total amount of 200ppm alkali gum when the temperature is increased to a first set temperature, continuing to increase the temperature to a second set temperature for an equilibrium reaction, continuing to increase the temperature to 150 degrees Celsius, evacuating for 0.5h to destroy the catalyst, increasing the temperature to a third set temperature for removing low molecules, and then cooling and discharging and packaging same to prepare an aminoethyl aminopropyl trimethoxysilane high-boiling substance. The present invention adopts the above method for preparing a highly compatible tackifier for silicone rubber, which solves the technical problems of poor compatibility between tackifier and silicone rubber, too small a molecular chain of tackifier, easy damage when subjected to external force, and insufficient bonding strength.

21: 2023/11613. 22: 2023/12/19. 43: 2024/06/20
51: C08G
71: Xinnaqi Material Technology Jiangsu Co., Ltd.
72: Yue YU, Shoubin XU, Lina HU

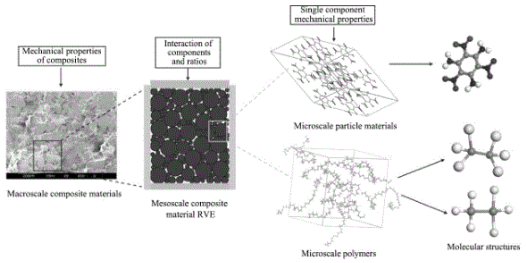
54: A PREPARATION METHOD FOR SILICONE OIL AND ITS APPLICATION

00: -

The invention relates to a preparation method of silicone oil and its application, the preparation method of silicone oil includes the following steps: S1, the mixture of DMC and hexamethyldisiloxane is heated to 160-180 degrees Celsius, and phosphoric acid is added in it, the mixture is stirred for 6-8h to remove water, and the stirring speed is 200-400r/min to obtain the silicon phosphate terminator; S2, the lineament is heated to 130-150 degrees Celsius, after adding potassium hydroxide aqueous solution with a mass concentration of 10%, the mixture is stirred until the polycondensation reaction occurre, the viscosity is monitored online, and the silicon phosphate terminator is added before reaching the target viscosity of 1000-80000mPa·s, after the reaction of 5-50 min, the mixture is vacuumized to decompress, and then it is distilled to remove the low boiling point substance to obtain Alpha,Omega-dihydroxy polydimethylsiloxane. The invention adopts the above preparation method of silicone oil and its application, which solves the problem of

silicone oil precipitation, and greatly improves the storage stability and the mechanical properties of silicone rubber.

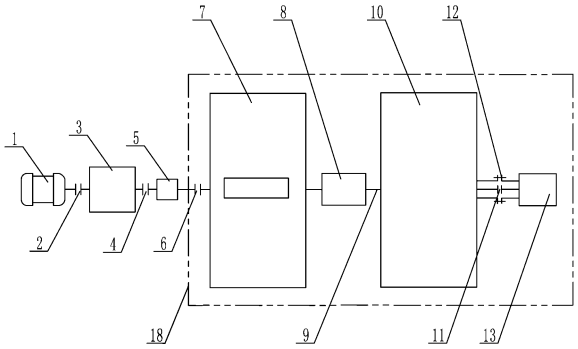
21: 2023/11614. 22: 2023/12/19. 43: 2024/06/20
51: G06F
71: Harbin Institute of Technology, Shenzhen
72: GE, Siyu, GUO, Zaoyang, LI, Dongfeng, LIANG, Xudong, JIANG, Lanlan, LIANG, Lai
54: MULTI-SCALE CONTINUOUS CALCULATION SYSTEM FOR MESO-MECHANICAL PROPERTIES OF ENERGETIC MATERIAL
00: -
The present invention relates to a multi-scale continuous calculation system for meso-mechanical properties of an energetic material in the field of computer simulation, including an upper computer; the upper computer includes a first simulation module, a second simulation module, a model establishment module, a parameter connection module, and a property calculation module; molecular dynamics simulation and coarse grain molecular dynamics simulation are performed for explosive crystal components and polymer binder components in polymer bonded explosive (PBX); a real PBX structure is transformed into a random circular particle digital model by the effective approximation method; key parameter connection from micro scale to mesoscale; the elastic modulus and state equation parameters of PBX are obtained by studying the mechanical behavior of PBX under uniaxial compression, and are input into the macroscale continuum calculation as parameters.



21: 2023/11615. 22: 2023/12/19. 43: 2024/06/20
51: G06T
71: Macao Polytechnic University, Dongguan City University
72: Ji Chongxing, Niu Yi
54: A DEEP LEARNING-BASED IMAGE PROCESSING METHOD AND DEVICE
00: -
This invention provides a deep learning-based image processing method and device, which relates to the field of image processing. The method based on deep learning involves the following steps: S1, collecting a small yet diverse labeled dataset and gathering a large amount of unlabeled data; S2, normalizing and standardizing the data, performing denoising and contrast adjustment on the images, and designing a data normalization formula. Unlike traditional image processing methods that require manual feature design and selection, deep learning models can automatically learn and extract complex features from vast amounts of data. This method employs autoencoders, pseudo-labeling, and designs a semi-supervised learning loss function. A properly trained deep learning model can generalize well to new, unseen data, which is crucial for practical applications.

21: 2023/11616. 22: 2023/12/19. 43: 2024/06/20
51: G01M
71: NO.703 Research Institute of CSSC
72: CHANG, Shan, JIANG, Lidong, YUE, Yanjiong, FU, Lin
33: CN 31: 202310666673X 32: 2023-06-07
54: HIGH-POWER AND HEAVY-LOAD BACK-TO-BACK PLANETARY GEAR TEST PLATFORM
00: -
A high-power and heavy-load back-to-back planetary gear test bench for testing under full speed and full loading, which solves the problems of high processing cost of the transmission shaft and the inability to test in a simulated marine environment, includes a driving device, a first shaft coupling, a speed increaser, a second shaft coupling, a speed and torque meter and a back-to-back planetary gearbox closed power system connected in sequence, a clamping groove body coaxially sleeved on an axial positioning protrusion, a clamping component embedded inside an axial positioning groove, and a shaft segment coaxially installed on the clamping groove body to provide an axial displacement by the clamping component to tightly clamp the clamping groove body and the axial positioning protrusion, therefore the clamping groove body generates a radial displacement under an axial pushing of the clamping component and is expanded in the radial direction to tightly connect with the axial

positioning groove; and a marine test component for marine environment simulation.

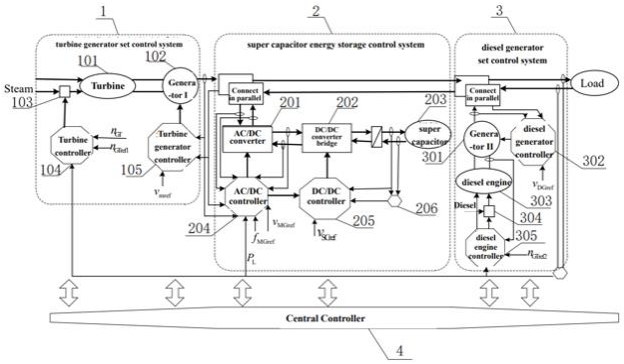


21: 2023/11617. 22: 2023/12/19. 43: 2024/06/20
51: B64D; G21D
71: HIT ROBOT GROUP, HARBIN INSTITUTE OF TECHNOLOGY
72: DUAN, Jiangdong, WANG, Luxiao, FAN, Shaogui, LI, Yijia, ZHAO, Fang, XIAO, Qian, ZHAO, Ke, SUN, Li
33: CN 31: 202311522394.2 32: 2023-11-15

54: MICROGRID ARCHITECTURE FOR SHIPBOARD NUCLEAR POWER PLANT BASED ON SUPERCAPACITOR

00: -

The super capacitor-based microgrid architecture for shipboard nuclear power plants belongs to the technical field of microgrids for shipboard nuclear power plants. It solves the problem of poor stability and safety of nuclear power plant operation when there is a large load mutation in the existing shipborne nuclear power plant microgrid. The present invention comprises a turbine generator set control system, a supercapacitor energy storage control system, a diesel generator set control system and a central controller; the turbine generator set control system, the supercapacitor energy storage control system and the diesel generator set control system are connected in parallel to supply power to the load; said central controller is used to, according to the load change of the load and the operating state of the turbine generator set control system, make adjustments to the turbine generator set The central controller is used to coordinate and control the turbine generator set control system, the super capacitor energy storage control system and the diesel generator set control system according to the load change and the operation status of the turbine generator set control system, and to maintain stable power supply to the load. The present invention is applicable to microgrid control of shipboard nuclear power plant.



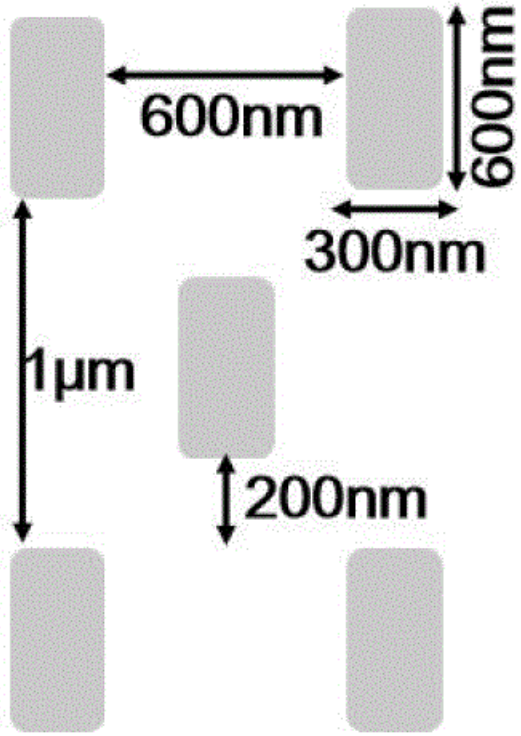
21: 2023/11618. 22: 2023/12/19. 43: 2024/06/20
51: H01L
71: Zhengzhou University of Aeronautics
72: Wang Shuxia, Zhang Mengwen, Cui Jiehu, Liang Bo, He Jiajun
33: CN 31: 2023109405515 32: 2023-07-28

54: AN INTELLIGENT ANTI-REFLECTION STRUCTURE WITH ADJUSTABLE BANDS AND FREQUENCY DOMAINS, AND ITS PREPARATION METHOD

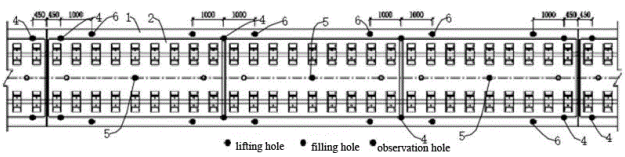
00: -

This application discloses an intelligent anti-reflection structure with adjustable bands and frequency domains, as well as its preparation method, aiming to solve the problems of complexity, narrow applicable spectral range, difficult modulation, poor integration, and adaptive performance of existing anti-reflection structures. The application utilizes an array of SiO2 as a substrate, deposits vanadium oxide (VO2) thin film using atomic layer deposition, and obtains the VO2@array SiO2 structure through subsequent annealing processes. The thickness of the vanadium oxide thin film is precisely controlled by varying the number of atomic layer deposition cycles, resulting in a series of adjustable band and frequency domain intelligent anti-reflection structures. The preparation conditions of this application are simple, with a broad applicable spectral range and strong controllability. The final product can intelligently switch between anti-reflection and full reflection modes: under room temperature anti-reflection mode, it reduces optical reflection losses and enhances the efficiency of

photovoltaic devices; under high-temperature full reflection mode, it protects photovoltaic devices and improves their service life. It has a wide range of applications in the field of clean energy utilization, such as solar energy, with promising prospects.

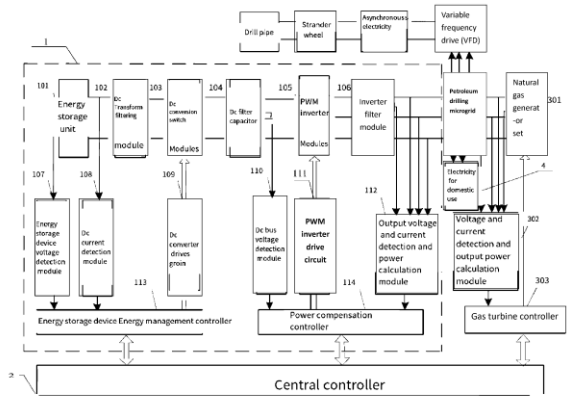


21: 2023/11619. 22: 2023/12/19. 43: 2024/06/20
51: E01B
71: China Railway NO.3 Engineering Group Co., Ltd., China Railway Third Group No.2 Engineering Co., Ltd.
72: Xuelei Li, Chenghong Liu, Yubo Chen, Yingmei Wang, Tiesuo Guan
33: CN 31: 2023110051475 32: 2023-08-10
54: A METHOD OF LIFTING BALLASTLESS TRACK AND A METHOD OF SETTLING ADJUSTMENT
00: -
The invention provides a method of lifting ballastless track and a method of settling adjustment, the method of lifting ballastless track, includes the following steps: Step 1: Identify the measurement points, measure the track plane and elevation, and determine the amount of lift based on the measurement results; Step 2: Drill; Step 3: Install the grouting pipe after reviewing the lifting amount; Step 4: Start lifting from the position with the largest lifting amount, and perform lifting in multiple units; Step 5: Determine whether the lifting amount reaches the design position. If it reaches the design position, go to step 6, if it doesn't reach the design position, return to step 2; Step 6: Grouting and filling; Step 7: The grouting holes are blocked and the sealing layer is repaired. The ballastless track lifting method of the present invention is carried out by lifting from the position with the largest lifting amount and lifting in units multiple times, not only ensures the accuracy of the numerical value of the lifting amount, but also improves the smoothness of the lifted ballastless track.



21: 2023/11620. 22: 2023/12/19. 43: 2024/06/20
51: H02J
71: HIT ROBOT GROUP, HARBIN INSTITUTE OF TECHNOLOGY
72: DUAN, Jiangdong, FAN, Shaogui., SUN, Li., LI, Yijia., ZHAO, Fang., ZHAO, Ke., XIAO, Qian., WANG, Luxiao.
33: CN 31: 202311522393.8 32: 2023-11-15
54: DIRECT POWER COMPENSATION SYSTEM FOR OIL RIG MICROGRIDS
00: -
The direct power compensation system for oil drilling platform microgrid belongs to the technical field of stable operation of oil drilling platform microgrid. The present invention solves the problem of poor stability of existing grid-connected inverters when they are used for power compensation in oil drilling platform microgrids. The power adjustment system of the present invention uses an energy storage device for charging and discharging, and uses a PWM inverter module to invert the DC power signal output from the energy storage device and then incorporate it into the microgrid of the oil drilling platform; the central controller calculates the real-time differential power according to the real-time output power of the natural gas generating set and the real-time load power of the microgrid of the oil drilling platform, controls the power adjustment system to compensate for the real-time differential power, and adjust the output power of the natural gas generator

set in real time until the differential power is zero and the power adjustment system stops power compensation. The present invention is applicable to the power control of the microgrid of the oil drilling platform.

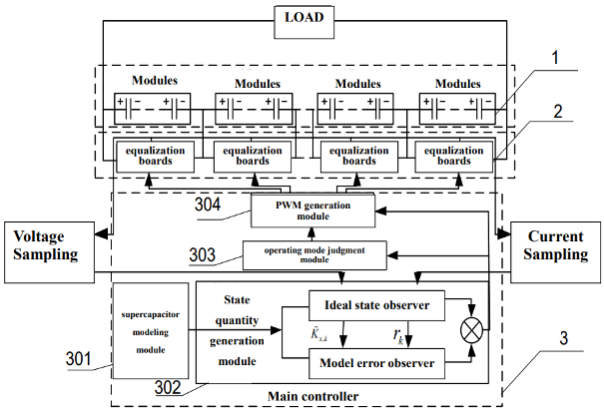


21: 2023/11621. 22: 2023/12/19. 43: 2024/06/20
51: H02J
71: HARBIN INSTITUTE OF TECHNOLOGY, HIT ROBOT GROUP
72: DUAN, Jiangdong, WANG, Luxiao, FAN, Shaogui, LI, Yijia, ZHAO, Fang, XIAO, Qian, ZHAO, Ke, SUN, Li
33: CN 31: 202311522392.3 32: 2023-11-15

54: SUPERCAPACITOR ACTIVE EQUALIZATION SYSTEM AND METHOD USING SOC AS AN EQUALIZATION INDEX

00: -

A supercapacitor active equalization system and method using SOC as an equalization index belongs to the technical field of supercapacitor management. The present invention solves the problem that traditional supercapacitor equalization is prone to lead to overcharging or overdischarging of a single module, which deteriorates the performance of the supercapacitor. A plurality of equalization boards described in the present invention perform equalization control of a plurality of supercapacitor modules corresponding to the supercapacitor power supply system; the main controller establishes an equivalent model, obtains state space equations, adds supercapacitor model errors to the state equations, and establishes an ideal state observer and a model error observer without considering the model errors by using an extended Kalman filter algorithm, and uses the voltage and current signals of the supercapacitor modules as the ideal state observer without considering the model errors. The voltage and current signals of the supercapacitor module are used as inputs to the ideal state observer without considering the model error to obtain the real state quantity and the working state of each supercapacitor module, the real state quantity and the working state are used to obtain the control rate of each equalization board, and the control rate of the equalization board is sent to the corresponding equalization board. It is mainly used for super capacitor module equalization control.



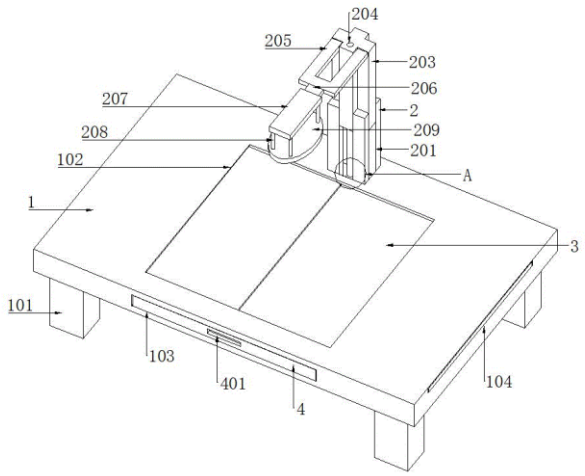
21: 2023/11622. 22: 2023/12/19. 43: 2024/06/20
51: G01N
71: YANCHENG TEACHERS UNIVERSITY
72: LIU Jianli, CHEN Xiaobo, CHEN Ze, YANG Liangliang, KONG Youchao, HU Xiaoyan, LIU Weiwei, ZHONG Shengcai
33: CN 31: 2023104681523 32: 2023-04-27

54: LASER-INDUCED BREAKDOWN SPECTRUM DETECTION SYSTEM

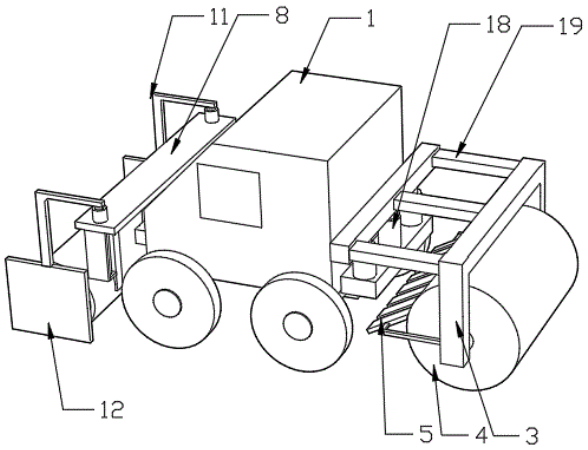
00: -

The invention discloses a laser-induced breakdown spectrum detection system, and relates to the technical field of laser-induced breakdown spectrum detection systems. The invention comprises a console, wherein a cross-shaped plate and two sliding plates are slidably matched on the upper side of the console, and a pulse laser and a focusing lens positioned on the lower side of the pulse laser are arranged on one side of the cross-shaped plate, so that it is convenient to detect the sample to be detected through the pulse laser and the focusing lens. By arranging the placing groove, the placing table drives the placing groove to move under the action of workers, so that on the one hand, it is convenient to place the sample to be tested, on the other hand, it reduces the situation that the sample

to be tested falls into dust during placement, reduces the situation that the sample to be tested is polluted during placement, improves the effect of the sample to be tested during detection, and makes the detection process of the sample to be tested more convenient.

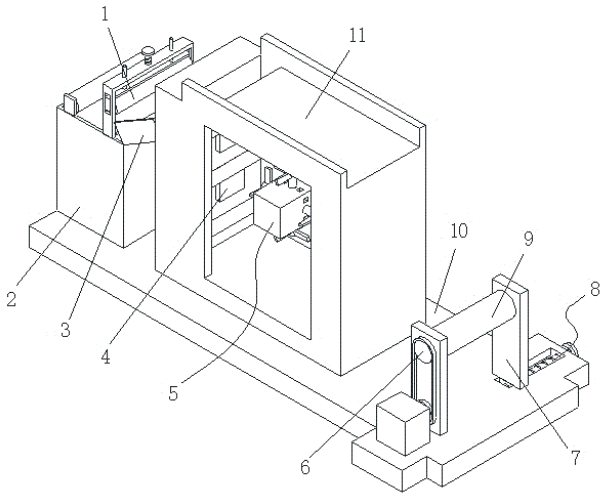


21: 2023/11623. 22: 2023/12/19. 43: 2024/06/20
51: E01C
71: Henan University of Urban Construction
72: ZHANG Huiyuan, PENG Lansi, LI Hui, HU Guoping, ZHANG Yongcun, LIU Jiawei
54: HIGHWAY PAVEMENT LEVELING EQUIPMENT AND USING METHOD THEREOF
00: -
The invention discloses highway pavement leveling equipment and a using method thereof, belonging to the technical field of pavement leveling equipment, comprising: a vehicle body; a leveling mechanism, which comprises a first lifting assembly arranged at the front end of the vehicle body, and a paving plate is arranged at the lifting end of the first lifting assembly; a compaction mechanism, which comprises a second lifting assembly arranged at the rear end of the vehicle body, a bracket is arranged at the lifting end of the second lifting assembly, and a pressure roller is rotatably connected to the bracket; a scraper assembly, which comprises a scraper fixedly connected to the bracket, the scraper is obliquely arranged, one end of the scraper at a high position is in sliding contact with the surface of the pressure roller, and the scraper is located between the vehicle body and the pressure roller. According to the invention, the material flattening and compaction are integrated, so that the working efficiency is improved; and in the rolling process of the pressure roller, the scraper can scrape the material adhered to the pressure roller, and the scraped material enters between the vehicle body and the pressure roller, and can be compacted by the pressure roller again after falling on the road surface, so that the flattening effect on the road surface is improved, and the leveling effect of the road surface is further improved.

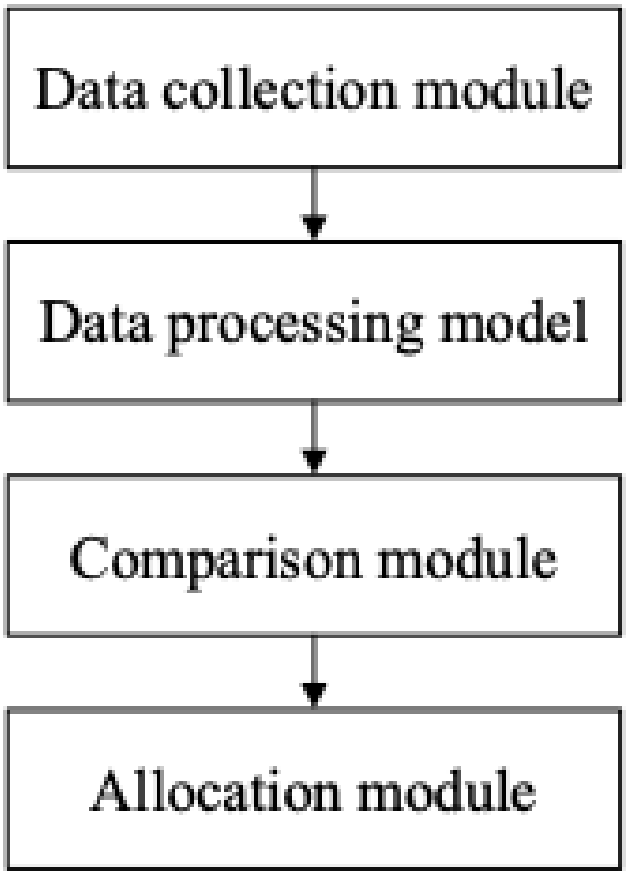


21: 2023/11624. 22: 2023/12/19. 43: 2024/06/20
51: D06B
71: Anhui Polytechnic University
72: Lei Zhou, Zhen Wang, Changlong Li
54: A TEXTILE DIPPING GLUE CURING TREATMENT DEVICE
00: -
The invention discloses a textile dipping curing treatment device, belonging to the technical field of textile manufacturing, comprising a bottom plate, the surface of the bottom plate is provided with a disassembly component, the top of the bottom plate is installed with an air dry curing box, the air dry curing box is provided with an internal air supply component, and the electric heating block is electrified to heat the inside of the fixing box by providing an air supply component. The starting motor drives the bevel gear ii to rotate. Under the meshing transmission between the bevel gear ii and the bevel gear i, the bevel gear i will drive the fan blade on the rotating shaft to rotate, and the fan blade rotation can deliver hot air to the textile to make the air dry and curing effect better. By setting the disassembly component, the sliding block of the meshing connection between the screw and the sliding block can drive the support to move, and the

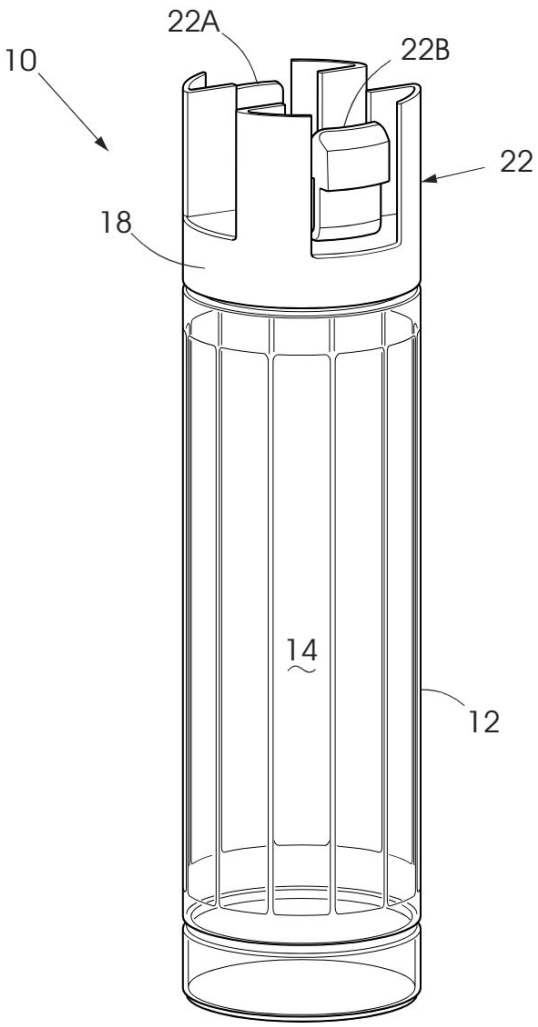
winding roller of the winding textile can be removed under the sliding connection structure between the transmission block and the winding roller, which is convenient for disassembly and component and can make the use effect of the textile dipping and curing treatment device better.



21: 2023/11625. 22: 2023/12/19. 43: 2024/06/20
51: A01G
71: Jiquan ZHANG
72: Jiquan ZHANG
54: PRECISE PESTICIDE APPLICATION SYSTEM AND METHOD FOR TREE ROOT
00: -
The present disclosure discloses a precise pesticide application system and method for a tree root, and in particular, relates to the technical field of pesticide application for trees. According to the present disclosure, a soil pesticide non-acceptance coefficient C_s, a soil pesticide non-persistence coefficient S_j, and a soil moisture deviation coefficient Z_d are collected to generate an evaluation coefficient P_y, and the evaluation coefficient P_y is compared with pre-determined first reference threshold value YP_y and second reference threshold value WP_y of the evaluation coefficient. Different pesticide application manners are selected through comparison, which can flexibly adjust a pesticide application strategy according to actual soil conditions, improve a pesticide application effect, and realize optimal pesticide application management under different soil conditions.



21: 2023/11626. 22: 2023/12/19. 43: 2024/06/20
51: F42D
71: DETNET SOUTH AFRICA (PTY) LTD
72: DE VILLIERS-KOK, Kari, BOTHA, Marius
54: DENSITY ADJUSTMENT DEVICE
00: -
A density adjustment device for use with a detonator assembly wherein the device includes a container which encloses a volume, an opening to the volume through which a predetermined quantity of dense material is placed inside the volume, and a closure to the opening to seal the opening and wherein the closure includes a structure which is configured to engage with a detonator assembly.

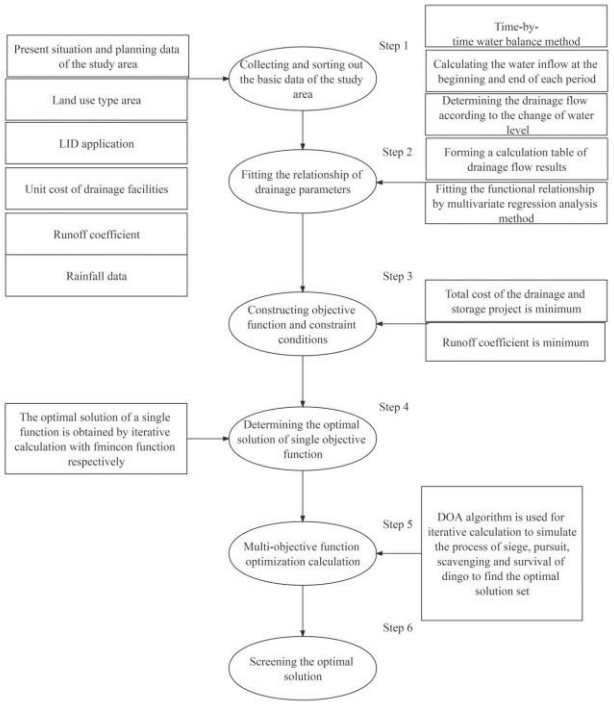


21: 2023/11631. 22: 2023/12/19. 43: 2024/06/19
51: G06Q
71: Hohai University, Hebei Institute of Water Resources Science (Hebei Dam Safety Technology Center, Hebei Levee Sluice Technology Center), Jiangsu Yuzhi River Basin Management Technology Research Institute Co.Ltd.
72: Luan Qinghua, Lian Qiuyan, Wang Boxin, Li Huayue, Wang Wenqiang, Huo Litao, Sun Lei, Chen Jiajun, Zhao Jiayi
33: CN 31: 202311511291.6 32: 2023-11-14

54: PUMP STATION-LID JOINT MULTI-OBJECTIVE OPTIMIZATION METHOD BASED ON DOA ALGORITHM

00: -

The invention relates to a pump station-LID joint multi-objective optimization method based on DOA algorithm, which mainly comprises the following steps: Step 1, collecting and sorting basic data of a research area; Step 2, fitting the relationship of drainage parameters; Step 3, establish the objective function and constraint conditions; Step 4, determining the optimal solution of the single objective function; Step 5, multi-objective function optimization calculation; Step 6, screening the optimal solution. The multi-objective optimization method of the invention comprehensively considers economic benefits and environmental benefits, and is particularly suitable for the optimal design of the drainage flow of the pump station and the layout rate of different LID measures under the basin scale. This method comprehensively considers the regulation and storage function of rivers, lakes, sunken green lands and permeable pavements in the planning area and the drainage function of pump stations, and can design different schemes according to local conditions, and can quickly find the global optimal solution by using DOA algorithm.

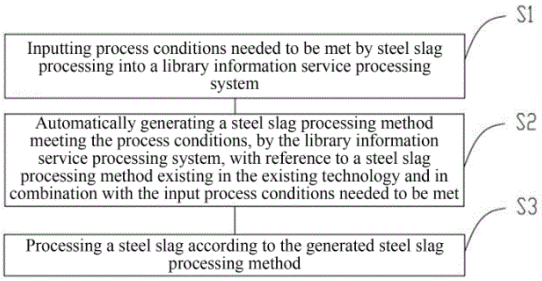


21: 2023/11632. 22: 2023/12/19. 43: 2024/06/21
51: G01B
71: NORTH CHINA UNIVERSITY OF SCIENCE AND TECHNOLOGY
72: LAN, Tian

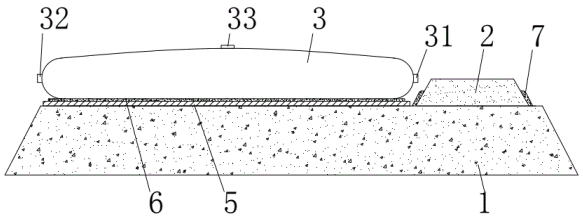
54: METHOD FOR PROCESSING STEEL SLAG BASED ON LIBRARY INFORMATION SERVICE

00: -

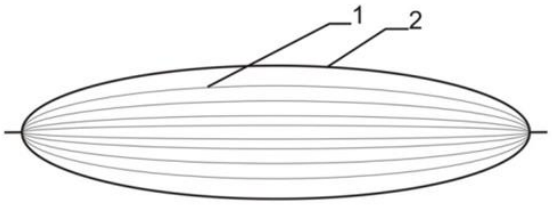
The present disclosure provides a method for processing a steel slag based on a library information service. The method includes the following steps of: inputting process conditions needed to be met by steel slag processing into a library information service processing system; automatically generating a steel slag processing method meeting the process conditions, by the library information service processing system, with reference to the steel slag processing method existing in the existing technology and in combination with the input process conditions needed to be met; and processing the steel slag according to the generated steel slag processing method. On the basis of learning the existing technology, the method enables the generated steel slag processing method to have a better processing effect by using the strong information processing capability of the library information service processing system, so as to effectively recover magnetic substances in the steel slag.



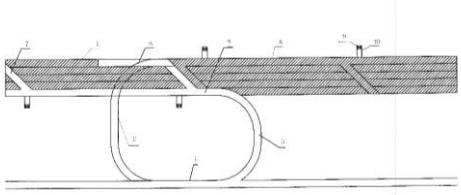
21: 2023/11633. 22: 2023/12/19. 43: 2024/06/21
51: E01C; E02D
71: CHINA RAILWAY 19TH BUREAU GROUP THIRD ENGINEERING CO., LTD., CHINA RAILWAY 19 BUREAU GROUP CO., LTD.
72: ZHAO, Licai
33: CN 31: 202110581504.7 32: 2021-05-27
54: ROADBED WATER AND SOIL COMBINED SURCHARGE PRELOADING SYSTEM
00: -
A roadbed water and soil combined surcharge preloading system, comprising a roadbed (1) and a surcharge preloding part covering the surface of the top end of the roadbed (1). The surcharge preloading part comprises at least one soil carrier (2) and at least one water carrying unit which are respectively provided in the width direction of the roadbed (1); the soil carrier (2) extends in the length direction of the roadbed (1); the at least one water carrying unit comprises a plurality of water bags (3); and the plurality of water bags (3) is arranged on the roadbed (1) at intervals along the length direction of the roadbed (1). The soil carrier (2) can achieve a basic surcharge preloading effect firstly, and then a lane is formed on the soil carrier (2) and can be used for transportation of transport vehicles.



21: 2023/11659. 22: 2023/12/20. 43: 2024/06/25
51: A47G
71: HUAINING YAQI PACKAGING MATERIALS CO., LTD
72: WANG, Yaqi
54: A DISPOSABLE TABLE COVER
00: -
A disposable table cover comprises a single film and an elastic woven tape. The single film is a single plastic film made of PE material, and the elastic woven tape is a polyester elastic woven tape. The present utility model is a disposable plastic waterproof, oil proof, and dustproof table cover, which can replace traditional disposable tablecloths; The present invention uses elastic webbing to connect with PE film, and under the action of the elastic webbing, it can be suitable for tabletops of any shape such as round tables, square tables, elliptical tables, and turntables; The present invention has better adhesion to the tabletop, with elastic webbing around the edges for contraction, which can avoid the problem of disposable tablecloths being blown up by the wind; The present invention adopts a fan-shaped folding and contraction process, and the finished product has a simple structure and convenient use.



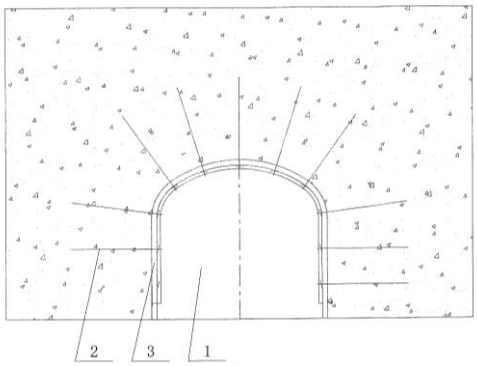
21: 2023/11661. 22: 2023/12/20. 43: 2024/06/25
51: E21C; E21D
71: BEIJING GENERAL RESEARCH INSTITUTE OF MINING & METALLURGY TECHNOLOGY GROUP
72: YANG, Xiaocong, ZHENG, Zhijie, HUANG, Dan, WANG, Yong, LI, Yuxuan, WANG, Zhenyu, LIU, Guangsheng
33: CN 31: 202310000507.6 32: 2023-01-03
54: MECHANICAL MINING CONSTRUCTION FOR THIN TO MEDIUM-THICK OREBODY AND MINING METHOD THEREOF
00: -
The present invention provides a mechanical mining construction for a thin to medium-thick orebody and a mining method thereof, and relates to the field of mining technology, the mechanical mining construction comprising: a main orebody, a first crossheading, a second crossheading, and a ramp; wherein the other end of the first crossheading and the other end of the second crossheading are each connected to the main orebody, and an opening of the first crossheading extending into the main orebody is provided in a direction opposite to an opening of the second crossheading extending into the main orebody. After entering the main orebody through the first crossheading and the second crossheading, respectively, the roadheaders can excavate the main orebody in different directions. It is sufficient to only excavate the first crossheading and the second crossheading, and it is unnecessary to excavate a large number of sublevel drifts. Meanwhile, two roadheaders are usable to excavate the main orebody in different directions to save mining time. It alleviates the technical problems of large preparatory workings and wasted mining time existing in the prior art, and achieves the technical effect of reducing preparatory workings while saving mining time.



21: 2023/11662. 22: 2023/12/20. 43: 2024/06/25
51: A61K
71: Song Luo
72: Song Luo, Panyun Feng
54: A TOPICAL MEDICINAL LIQUOR FOR TREATING BONE PAIN AND A PREPARATION METHOD THEREOF
00: -
The invention relates to the technical field of compounds, in particular to a topical medicinal liquor for treating bone pain and a preparation method thereof. It consists of the following weight ratio components: 25-40g of hyalothorax, 15-25g of caulis sargentodoxae, 15-25g of dried ginger, 15-25g of wild zanthoxylum, 55-65g of cornus wilsoniana wanaer, 18-22g of helwingia himalaica, 18-22g of fruit of siberian nitraria, 10-20g of monoclonius, 5g of borneol, 1-2 g of capsaicin, 1000g of grain liquor. It can be used to treat osteoarthritis, gout and rheumatism caused by joint stiffness, joint pain, joint swelling, synovitis, varicose veins, lumbar vertebrae hyperplasia, cervical vertebrae hyperplasia, sciatica, shoulder periarthritis, limb numbness, injuries from falls, fractures, contusions and strains. It has a very good effect, it completely heals the wound, so that the wound is not easy to relapse.

21: 2023/11663. 22: 2023/12/20. 43: 2024/06/25
51: E21D; E21F
71: BEIJING GENERAL RESEARCH INSTITUTE OF MINING & METALLURGY TECHNOLOGY GROUP
72: YANG, Xiaocong, HUANG, Dan, LI, Yuxuan, GUO, Lijie, ZHENG, Zhijie, WANG, Zhenyu, LIU, Guangsheng
33: CN 31: 202310048500.1 32: 2023-01-31
54: METHOD OF MECHANICAL EXCAVATION AND SUPPORT IN A BACKFILL
00: -
The present invention provides a method of mechanical excavation and support in a backfill, and relates to the field of mining technology. The method comprises the steps of: excavating in the backfill by a mechanical rock excavating equipment to form a roadway; supporting the roadway by spraying concrete; anchor-supporting the roadway sprayed with the concrete. The roadway is more stable through the anchoring support to reduce a risk of later instability. The present invention sufficiently utilizes characteristic that mechanical excavation has little disturbance to the backfill, and a risk confronted by construction workers in a long-term construction may be avoided after spraying concrete

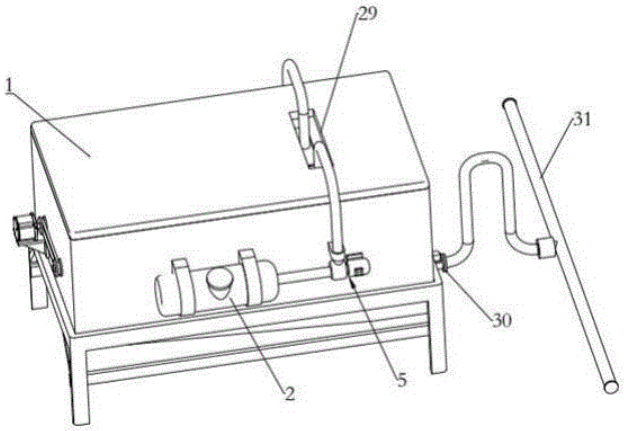
and anchor-supporting to reduce a potential safety hazard, and to alleviate the technical problem in the prior art that a risk is present in a construction process, and caving may be present at a later stage such that there is the potential safety hazard, thereby achieving the technical effect of reducing the risk in the construction process while avoiding collapsing in the later stage.



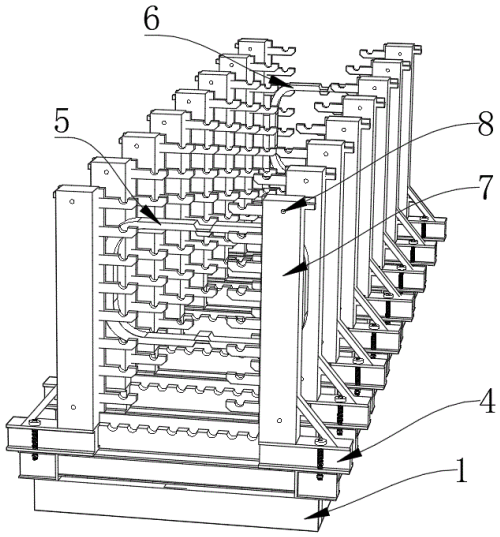
21: 2023/11666. 22: 2023/12/20. 43: 2024/06/25
51: G01V
71: China Coal Xinji Energy Co., Ltd, Beijing Window Technology Co., Ltd
72: Ni Xianjie, Sun Maoru, He Heng, Wang Xiaoping, Zhang Xun, Liu Qingbo, Hong Shibao, Ding Feng, Zhang Dianfei, Liu Yude, Li Yongjun, Guo Jingzhong, Yang Yuanzhong, Liu Limu
33: CN 31: 202311632917.9 32: 2023-11-28
54: METHOD FOR DETECTING WATER-FLOWING FRACTURE ZONE HEIGHT IN MINING OVERLYING STRATA BASED ON STRESS MONITORING
00: -
The present invention relates to the technical field of water-flowing fracture zones, in particular to a method for detecting a water-flowing fracture zone height in mining overlying strata based on stress monitoring, and the method includes the following steps: S1: pressure sensors are buried on a coal seam floor by taking an intersection between a centerline of a strike and a centerline of a dip of a mining working face as a starting point and taking a periodic weighting length of a main roof of the working face as an interval along a dip direction of the working face to detect data through corresponding pressure sensors and transmit the data to a data acquisition system in real time, acquire stratum information according to comprehensive histogram of coal measure strata, and input the stratum information into the data acquisition system together; and S2: test sample data are acquired from a network summary, and the sample data are normalized. According to the present invention, the existing methods for detecting a water-flowing fracture zone height mainly include drilling flushing liquid leakage method, drilling television method, and electrical or magnetic method detection, but have the problems of great construction difficulty, high use limitation, and large prediction result error.

21: 2023/11667. 22: 2023/12/20. 43: 2024/06/26
51: E01C
71: Lishui Traffic Construction Development Co., Ltd.
72: Ma Zhongxin, Xu Yidong
33: CN 31: 202310291982.3 32: 2023-03-23
54: PAVING DEVICE AND PAVING METHOD FOR ASPHALT MIXTURE PAVEMENT WITH PHOTOCATALYTIC MODIFIER
00: -
The present invention relates to the technical field of road construction, and specifically provides a paving device and paving method for an asphalt mixture pavement with a photocatalytic modifier. A material mixing box is included, and a sprinkler head is arranged on the material mixing box. An auxiliary material tank contains a photocatalytic modifier solvent. Extrusion mechanisms, defoaming mechanisms and material adding mechanisms are further included. Each of the extrusion mechanisms includes a conveying cylinder and a screw conveyor rod, a material inlet and a material outlet are disposed on the conveying cylinder, and the screw conveyor rod is driven to rotate by means of a motor. Each of the defoaming mechanisms includes a heating wire and a material guiding plate, a material guiding cavity is disposed inside the material guiding plate, and a discharge head is arranged at a tail end of the material guiding plate. Each of the material adding mechanisms includes a material pump. The material adding mechanism adds the photocatalytic modifier solvent to photocatalytic modifier raw materials; the extrusion mechanism and the defoaming mechanism cooperate to fully mix the photocatalytic modifier raw materials and the photocatalytic modifier solvent and to reduce bubbles generated in the stirring process; and the

sprinkler head sprays the mixed photocatalytic modifier raw materials and the photocatalytic modifier solvent to the pavement to fully fuse the photocatalytic modifier with the asphalt pavement.



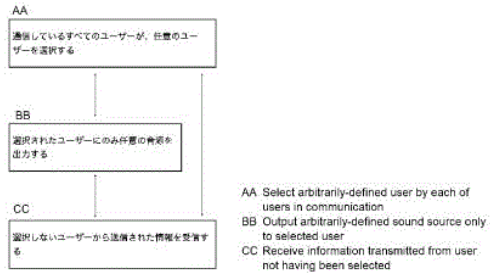
21: 2023/11668. 22: 2023/12/20. 43: 2024/06/25
51: B28B
71: China Railway No.3 Engineering Group Co., Ltd, China Railway Third Bureau Group No.4 Engineering Co., Ltd
72: Tu Zhi, Cao Yanhua, Zhang Tao, Liang Zhanxi, Duan Jiangtao, Chen Yamin, Xu Longfei, Yu Chunsheng, Xue Zemin, Men Qiang, Wang Gang, Nie Fei, Song Xiaoliang, Gu Junhai, Sun Dongyang
54: PREFABRICATED STEEL BAR BINDING MOULD FOR PIERS
00: -
The present invention discloses a prefabricated steel bar binding mould for piers, and the mould includes bases, specifically, a top of each of the bases is fixedly connected to a movable plate, a sliding groove is disposed at a top of the movable plate, an inner wall of the sliding groove is slidably connected to sliding blocks, tops of the sliding blocks are fixedly connected to fixed seats, and notches are disposed at front and rear ends of the fixed seats. According to the present invention, pier clamping plates may be fixed and disassembled by means of hydraulic cylinders and supporting rods, and the whole prefabricated steel bar binding mould for piers may be installed and disassembled by means of sliding blocks and first bolts.



21: 2023/11675. 22: 2023/12/20. 43: 2024/06/25
51: A23J; A23L
71: BIOREFINERY ROYALTIES B.V.
72: ZWART, Lourens, DERKSEN, Johannes Theodorus Petrus
33: EP 31: 21179555.4 32: 2021-06-15
54: MULTIPLE PRODUCTS FROM BRASSICA
00: -
Disclosed herein are a fibre-rich composition, a protein-rich composition, and a digestible-carbohydrate-rich composition, all obtainable from biomaterial of a plant from the *Brassicaceae* family, and processes for making same. The fibre-containing composition of the invention is rich in dietary fibre, but low on digestible carbohydrates, in particular sugars. The process of the invention comprises the steps of: (a) providing biomaterial of a plant from the *Brassicaceae* family; (b) preparing an aqueous slurry having a pH of at least 7.5 from said biomaterial; and (c) subjecting the aqueous slurry to separation so as to obtain a liquid fraction and a solid fraction; wherein the solid fraction is said fibre-containing composition.

21: 2023/11681. 22: 2023/12/20. 43: 2024/06/25
51: H04L; H04N; G06Q
71: IZAWA Yuto
72: IZAWA Yuto
33: JP 31: 2022-015984 32: 2022-02-03
54: OPERATION SYSTEM AND OPERATION METHOD FOR VIRTUAL SPACE OR ONLINE MEETING SYSTEM
00: -
At least one embodiment of the present invention provides an operation system that is for a virtual

space or an online meeting system and that comprises: a selection means for, in a state in which two or more users are in communication, having all the users in communication to each select an arbitrarily-defined user; an outputting means for outputting an arbitrarily-defined sound source only to the selected user; and a reception means for receiving information transmitted from a user not having been selected. Further, at least one embodiment of the present invention provides an operation system that is for a virtual space or an online meeting system and that comprises: a selection means for, in a state in which two or more users are in communication, having all the users in communication to each transmit videos to the users in communication and to each select an arbitrarily-defined user from among the users; and an outputting means for outputting an arbitrarily-defined sound source only to the selected user.



21: 2023/11705. 22: 2023/12/20. 43: 2024/06/25
51: A61K; C07C; C07D; C07F
71: SUZHOU ABOGEN BIOSCIENCES CO., LTD.
72: YING, Bo, WANG, Xiulian
33: CN 31: PCT/CN2021/095520 32: 2021-05-24
33: CN 31: PCT/CN2021/122704 32: 2021-10-08
33: CN 31: 202210010389.2 32: 2022-01-06
33: CN 31: PCT/CN2022/071251 32: 2022-01-11

54: LIPID COMPOUNDS AND LIPID NANOPARTICLE COMPOSITIONS

00: -

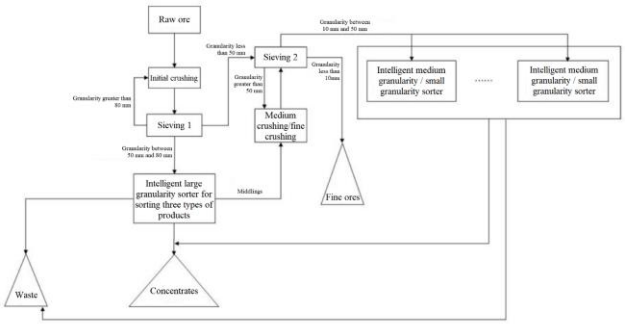
Provided herein are lipid compounds that can be used in combination with other lipid components, such as neutral lipids, cholesterol and polymer conjugated lipids, to form lipid nanoparticles for delivery of therapeutic agents (e.g., nucleic acid molecules) for therapeutic or prophylactic purposes, including vaccination. Also provided herein are lipid nanoparticle compositions comprising said lipid compounds.

21: 2023/11706. 22: 2023/12/20. 43: 2024/06/25
51: B07C
71: HUZHOU HONEST INTELLIGENT TECHNOLOGY CO., LTD
72: GUO, Jin, TONG, Xiaolei
33: CN 31: 202110774607.5 32: 2021-07-08

54: METHOD AND SYSTEM FOR CONDUCTING ORE PRESORTING BASED ON HIERARCHICAL ARRAYED INTELLIGENT SORTING

00: -

The present application relates to a method and system for conducting ore presorting based on hierarchical arrayed intelligent sorting. The method includes: acquiring parameter information of ores to be processed, and determining, according to the parameter information, the number of intelligent sorting devices and a sorting hierarchy structure of a plurality of intelligent sorting devices for hierarchical arrayed intelligent sorting; determining, according to the sorting hierarchy structure of the plurality of intelligent sorting devices, a granularity hierarchy structure for conducting multi-hierarchy granularity processing on the ores to be processed; associating each sorting hierarchy in the sorting hierarchy structure with a corresponding granularity hierarchy in the granularity hierarchy structure to form a multi-hierarchy ore processing structure including at least two processing hierarchies; and conducting ore presorting on the ores to be processed based on the multi-hierarchy ore processing structure so as to acquire ores that meet a predetermined granularity.

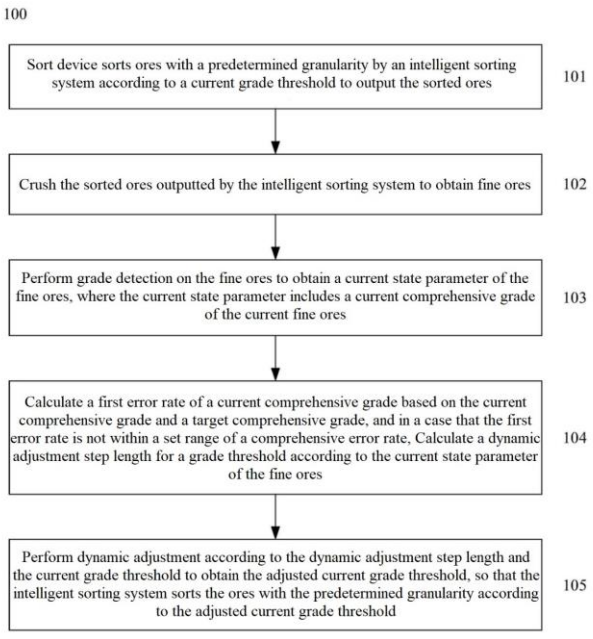


21: 2023/11708. 22: 2023/12/20. 43: 2024/06/25
51: B07C
71: HUZHOU HONEST INTELLIGENT TECHNOLOGY CO., LTD
72: GUO, Jin, TONG, Xiaolei
33: CN 31: 202110774603.7 32: 2021-07-08

54: METHOD AND SYSTEM FOR PERFORMING INTELLIGENT SORTING BASED ON DYNAMIC ADJUSTMENT OF THRESHOLD

00: -

The present application relates to a method and system for performing intelligent sorting based on dynamic adjustment of a threshold. The method includes: sorting ores with a predetermined granularity by an intelligent sorting system according to a current grade threshold to output the sorted ores; crushing the sorted ores outputted by the intelligent sorting system to obtain fine ores; performing grade detection on the fine ores to obtain a current state parameter of the fine ores; calculating a first error rate of a current comprehensive grade based on the current comprehensive grade and a target comprehensive grade, and in a case that the first error rate is not within a set range of a comprehensive error rate, calculating a dynamic adjustment step length for a grade threshold according to the current state parameter of the fine ores; and performing dynamic adjustment according to the dynamic adjustment step length and the current grade threshold to obtain the adjusted current grade threshold, so that the intelligent sorting system sorts the ores with the predetermined granularity according to the adjusted current grade threshold.

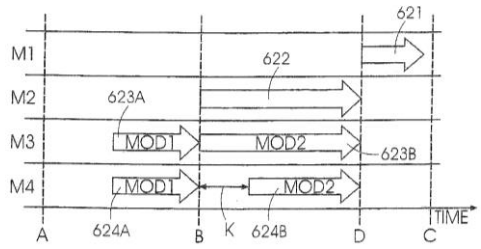


21: 2023/11709. 22: 2023/12/20. 43: 2024/06/25
51: F42D
71: DETNET SOUTH AFRICA (PTY) LTD
72: KRUGER, Michiel Jacobus, YATES, Marinus, MAURISSENS, Daniel August Julien Louis, PETTED, Brian E.
33: ZA 31: 2021/04220 32: 2021-06-21
33: ZA 31: 2022/06186 32: 2022-06-03

54: VELOCITY OF DETONATION MEASUREMENT

00: -

A method of obtaining velocity of detonation (VOD) information from a borehole wherein an explosive in the borehole is ignited by initiation of a detonator, the method including the steps of using a control circuit which obtains a measurement of the VOD and which is subsequently destroyed by ignition of the explosive, and of transmitting from the borehole a wireless signal which contains the VOD measurement and data which identifies the borehole before the control circuit is destroyed.



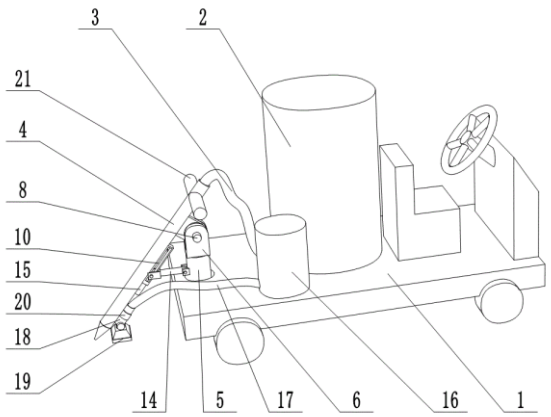
21: 2023/11734. 22: 2023/12/20. 43: 2024/06/25
51: E01C
71: Henan University of Urban Construction
72: ZHANG Huiyuan, PENG Lansi, LI Hui, HU Guoping, ZHANG Yongcun, LIU Jiawei

54: ROAD MAINTENANCE PAVEMENT JOINT FILLING EQUIPMENT

00: -

The invention discloses road maintenance pavement joint filling equipment, belonging to the technical field of road maintenance, which comprises a mobile car body, wherein a material tank is fixedly connected to the top of the mobile car body; a hose is communicated with the bottom of the material tank; one end of the hose far away from the material tank is communicated with a joint filling gun; the bottom end of the joint filling gun is hinged with a rotating column; and the bottom end of the rotating column is rotatably connected with the tail end of the mobile car body. According to the invention, the up, down, left and right angles of the joint filling gun can be adjusted, and the curved cracks do not need to be aligned by swinging the vehicle body, so that the pavement joint filling construction is more

convenient, the joint filling is more accurate, and the quality of crack repair is better.

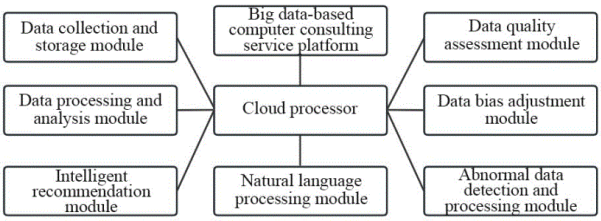


21: 2023/11735. 22: 2023/12/20. 43: 2024/06/25
51: G06F
71: Hebei Chemical And Pharmaceutical College
72: WANG, Yue

54: BIG DATA-BASED COMPUTER CONSULTING SERVICE PLATFORM

00: -

The present application discloses a big data-based computer consulting service platform in the technical field of consulting services, including a cloud processor, configured to receive and process information from the platform; a data collection and storage module, configured to collect data related to consultation from various data sources; a data processing and analysis module, configured to process and analyze the collected data; a natural language processing module, configured to understand and process user's natural language input using natural language processing technology; and a data bias adjustment module, configured to identify biases and tendencies in data samples and take corresponding measures to adjust data. Through the cooperation of the data diversity balancing module and the data bias adjustment module, the present invention ensures that when users consult on the platform, the platform can collect more sample data, ensure the diversity and balance of data, and then eliminate data biases.

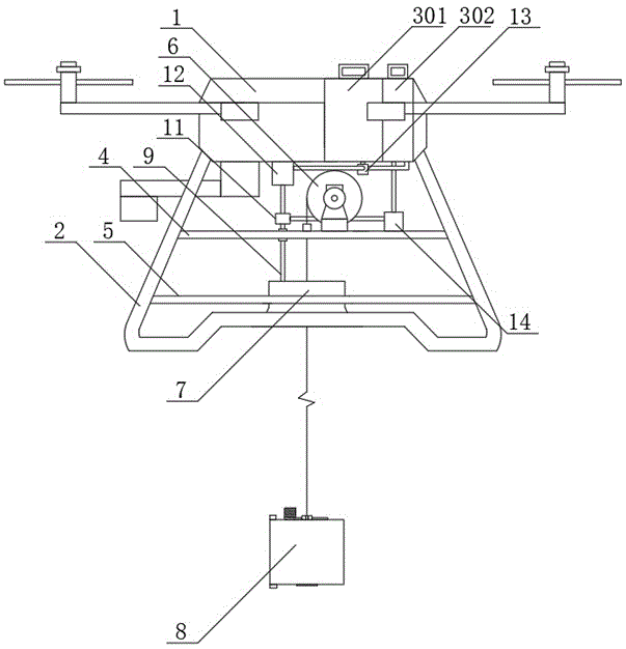


21: 2023/11736. 22: 2023/12/21. 43: 2024/06/25
51: G01N
71: Hainan Academy of Forestry Sciences (Hainan Academy of Mangrove Research)
72: LEI Jinrui, CHEN Zongzhu, CHEN Yiqing, WU Tingtian, CHEN Xiaohua, LI Yuanling
33: CN 31: 202211668553.5 32: 2022-12-24

54: SYSTEM FOR ACQUIRING WATER SAMPLE OF WETLAND BASED ON UNMANNED AERIAL VEHICLE (UAV)

00: -

The present disclosure provides a wetland water sample acquisition system based on an unmanned aerial vehicle (UAV), including a UAV, undercarriages, a tank, an upper rack, a lower rack, an electric winch, a guide housing, a water taker, a water sampling tube, a spiral nozzle, a first three-way solenoid valve, a first water pump, a second three-way solenoid valve, and a second water pump. The present disclosure directly acquires a water sample of a wetland with a UAV, and can acquire a water sample at a hard-to-reach sampling point in the center of the water surface of the wetland. In cooperation with a multispectral device on the UAV, multispectral data can be acquired synchronously with the water sample. This not only can greatly relieve a labor intensity of a field worker and achieves a higher working efficiency, but also can improve an accuracy of a wetland water quality parameter inversion model to obtain a more accurate inversion result. The present disclosure is of great significance to real-time monitoring on a change of water qualities of the wetland and effective control on the water of the wetland.

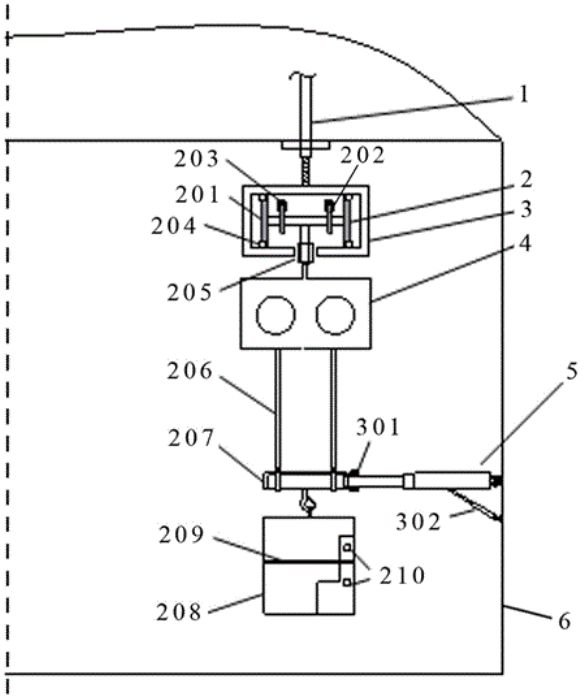


21: 2023/11737. 22: 2023/12/21. 43: 2024/06/25
51: E21F
71: Huainan Normal University
72: LI Dong, LI Fenghui, CHEN Bingqian, HUANG Kaifeng, DOU Litong, YU Yang

54: INTELLIGENT PEOPLE TRANSPORT SYSTEM BESIDE MINE ROADWAY

00: -

The invention belongs to the field of pedestrian transportation in coal mine roadway, and specifically discloses an intelligent people transport system beside mine roadway, which includes a track arranged at the top of the roadway, an advancing device is slidably connected below the track, the advancing device provides power through a driving device connected below the track, and an automatic getting-on and getting-off device is separately connected below the driving device; the automatic getting-off device includes a mancar and a propulsion mechanism for separating/connecting the mancar and the driving device; and the intelligent people transportation system also includes an intelligent distribution system, the intelligent distribution system is used for dispatching the mancar. The intelligent people transport system of the invention can transport workers to any designated position in the underground roadway through the track arranged at the top of the roadway, can reserve time and specify the route, and solve the defect that other operations cannot be carried out when transporting people in the roadway through the automatic getting-on and getting-off device, and has the characteristics of high safety, high intelligence and high labor efficiency.



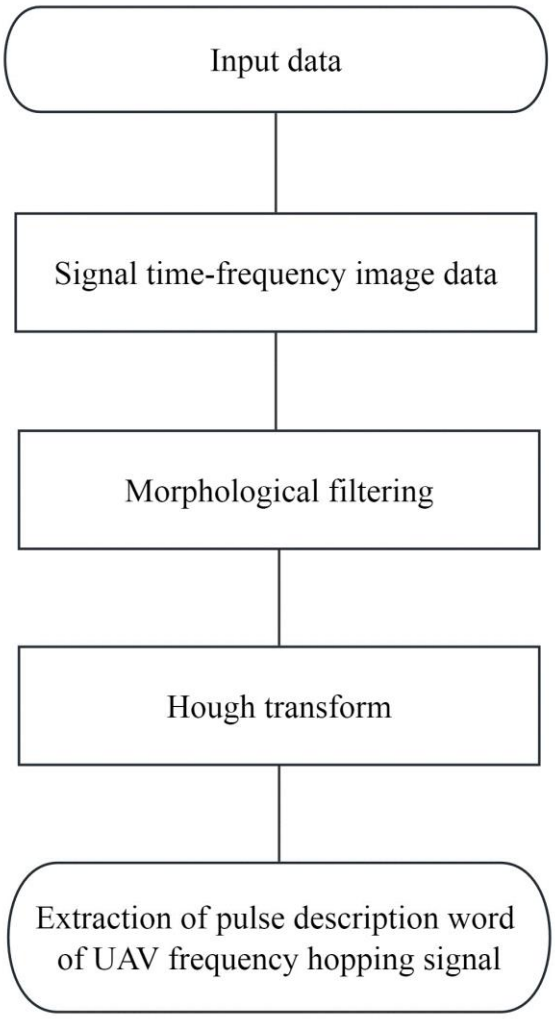
21: 2023/11738. 22: 2023/12/21. 43: 2024/06/25
51: G06K
71: Jiaxing Vocational & Technical College
72: Xiaoji Wei, Yanjun Ji, Bilu Luo, Naijia Xiao, Junwei Zhang, Yongqi Wang

54: BLIND DETECTION ALGORITHM OF UAV FREQUENCY HOPPING SIGNAL BASED ON ADAPTIVE MORPHOLOGY

00: -

The invention discloses a blind detection algorithm of UAV frequency hopping signal based on adaptive morphology, which mainly solves the problem that the detection performance of UAV frequency hopping signal is not high in the actual communication environment where there are interference signals such as fixed frequency, burst, swept frequency, random noise and the like, especially under the condition that the bottom noise fluctuates excessively and the signal-to-noise ratio is low. The method comprises the following steps: 1) based on adaptive morphology image processing, a denoised time-frequency image F1 (m,f)is obtained; 2) extracting image features based on Hough transform to obtain the starting position, ending

position and frequency point information TF(m,n,f) of the target UAV frequency hopping signal; 3) according to TF(m,n,f) , completing the extraction of pulse description word of UAV frequency hopping signal. In the complex electromagnetic environment, under the condition that the signal-to-noise ratio is higher than 10dB, the invention can quickly and efficiently extract the pulse description word of UAV frequency hopping signal, provide reliable pulse description word parameters for the subsequent frequency hopping signal analysis, and can be applied to the integrated communication reconnaissance system.

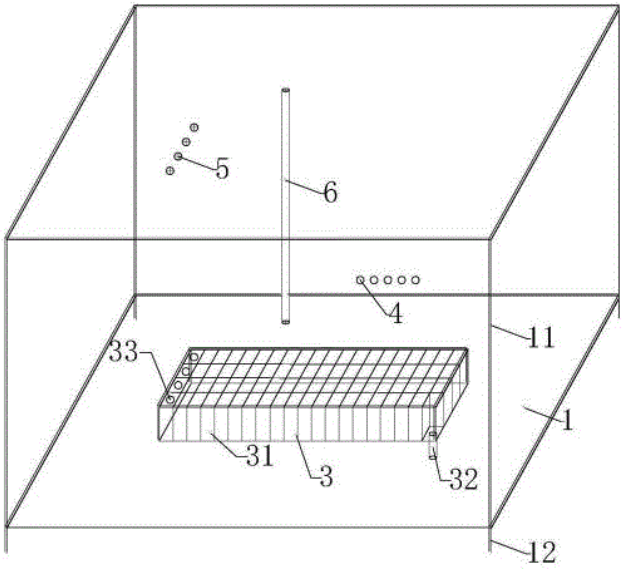


21: 2023/11739. 22: 2023/12/21. 43: 2024/06/25
51: E01C
71: Henan University of Urban Construction, Zhejiang College of Construction
72: LIU Jiawei, WANG Kun, FAN Zhezhe, FU Hao, PENG Lansi, PAN Junkui, SUN Chen

54: SIMULATION METHOD OF RESIDUAL VOID POSITION IN ROCK STRATA IN COAL MINING SUBSIDENCE AREA

00: -

The invention discloses a simulation method for the residual void position in rock strata in coal mining subsidence area, which sets the surface residual subsidence as the only criterion, reduces the dimension of influencing factors affecting the position/distribution of residual voids in coal mining subsidence area, and determines the key influencing factors of universality for simplified research. Based on this, a three-dimensional physical model is designed, and the main distribution residual void position in rock strata can be determined based on the physical model. Based on this, drilling layout schemes under different influencing factors are given with a clear aim.



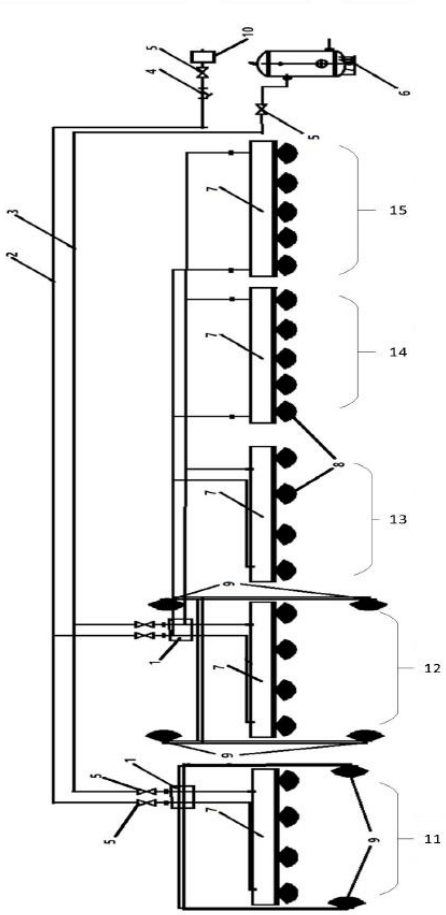
21: 2023/11740. 22: 2023/12/21. 43: 2024/06/26
51: B01D
71: Taiyuan University of Science and Technology
72: Hao Yongjiang, Zhe Handong, Zhao Zhenbao
33: CN 31: 2023233264683 32: 2023-12-07

54: A DUST SUPPRESSION SYSTEM FOR PRODUCTIVE DUST CONTROL AT UNDERGROUND LOADING AND CRUSHING POINTS

00: -

This invention belongs to the field of coal mine production technology and discloses a dust suppression system for productive dust control at

underground loading and crushing points. The system includes: A first spray dust reduction device located at the outlet of the loading machine, a second spray dust reduction device located above the crusher, a third spray dust reduction device located above the tail of the loading machine, a fourth spray dust reduction device located at the upwind side of the front conveyor, a fifth spray dust reduction device located at the upwind side of the rear conveyor. Each spray dust reduction device consists of a spray box and several dedicated nozzles arranged on one side of the spray box. A control module connects the spray boxes of each dust reduction device to an air storage tank and a water tank. The technical solution of this invention directly sprays and suppresses dust at the source, providing a reliable and easily maintainable system.



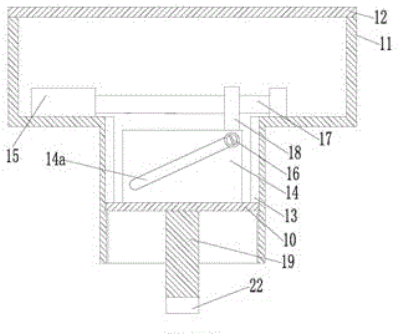
21: 2023/11742. 22: 2023/12/21. 43: 2024/06/25
51: A61B; A61M

71: CHONGQING MEDICAL AND PHARMACEUTICAL COLLEGE
72: ZHANG, Huimei, GAN, Linling, LIN, Fengyun
33: CN 31: 202310765619.0 32: 2023-06-26

54: MICRONEEDLE ARRAY

00: -

The present invention discloses a microneedle array. The microneedle array includes a main body and a connector detachably connected to a lower portion of the main body. The connector includes a movable seat capable of moving up and down in the connector. Several microneedles are arranged under the movable seat. The main body is internally provided with a moving component capable of moving up and down. A bottom surface of the connector is provided with an ultrasonic probe configured to measure thicknesses of a dermal layer and an epidermal layer. When the connector is connected to the lower portion of the main body, the moving component can drive the movable seat and the microneedles to move down by a corresponding distance according to the thicknesses measured by the ultrasonic probe. A piercing length of the microneedles can be adjusted in real time according to a thickness of pierced skin, such that a microneedle piercing process can be more comfortable while subcutaneous injection is achieved, and pain of a user can be reduced. Further, when the microneedle is damaged, the microneedle can be replaced directly through replacement of the connector, such that maintenance can be simple and convenient.

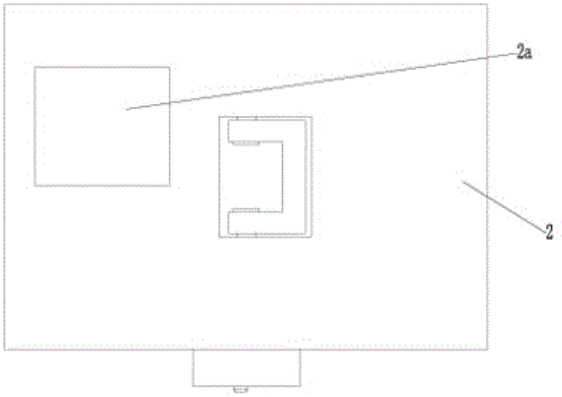


21: 2023/11743. 22: 2023/12/21. 43: 2024/06/25
51: A01N; F25D
71: CHONGQING MEDICAL AND PHARMACEUTICAL COLLEGE
72: ZHANG, Huimei, LI, Shunping, XU, Yongzhu, TIAN, Yunbo, ZHANG, Mingyong
33: CN 31: 202310962185.3 32: 2023-07-31

54: BLOOD STORAGE SYSTEM AND WORKING METHOD THEREOF

00: -

The present invention provides a blood storage system and a working method thereof. The blood storage system includes a storage box convenient to carry and transport. A box body is internally provided with a cavity configured to store a blood bag. The cavity is provided with an accessory interlayer capable of covering a top surface of the cavity. The accessory interlayer is internally provided with a stirring shaft having detachable stirring blades and a plurality of partition plates configured to divide the cavity into a plurality of zones. According to the present invention, the accessory interlayer is arranged, and several partition plates and the stirring shaft are placed in the accessory interlayer. When blood to be stored in the storage box is non-platelet blood, the partition plates are assembled in the cavity, and the cavity is divided into several zones configured to place all bags of blood. After putting of the blood bag is stopped, the accessory interlayer is placed, a box cover is closed, and then a corresponding storage mode is started, such that a temperature of the cavity is controlled within a proper range by a storage box controller.

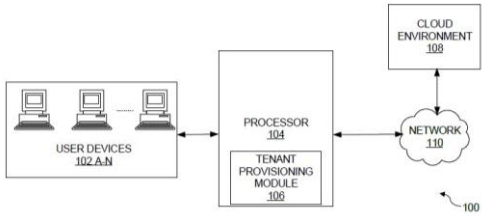


21: 2023/11744. 22: 2023/12/21. 43: 2024/06/25
51: G06F
71: APPVIEWX INC.
72: R, Ragunathan, PR, SunilKumar
33: US 31: 63,435,177 32: 2022-12-23

54: SYSTEM AND METHOD FOR PERFORMING TENANT PROVISIONING

00: -

An embodiment herein provides a system and method for performing tenant provisioning to enable controlled and staged deployment of new versions of workload, application, or service across the multiple clusters. The method includes (a) creating a tenant in a cloud using a user metadata received from a plurality of user devices, (b) generating a tenant key based on tenant information and tenant metadata, (c) mapping a snapshot of the tenant database comprising the tenant metadata to the tenant key, (d) creating Domain Name System record, (e) uploading license and generating Key Management Service key simultaneously, and (f) enabling the controlled and staged deployment of the new versions of the workload, application, or service across multiple clusters by creating admin credentials. This system and method can be implemented in EKS - Elastic Kubernetes Service, GKE - Google Kubernetes Engine, and AKS - Azure Kubernetes Service managed services.



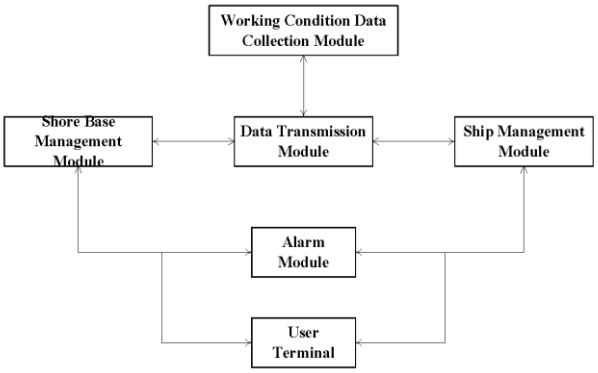
21: 2023/11753. 22: 2023/12/21. 43: 2024/06/25
51: G05B
71: MINGPAI TECHNOLOGY GROUP CO., LTD
72: Hongfeng CHEN, Wei REN
33: CN 31: 2022116563044 32: 2022-12-22

54: STABLE SYSTEM FOR INDUSTRIAL CONTROL HOST INTEGRATED INTO SHIP SYSTEMS

00: -

The present invention discloses a stable system for integrating an industrial control host into a ship system, belonging to the field of ship automation technology. The stable system can ensure stable real-time transmission of abnormal data, high-risk data, and important parameters, which is beneficial for shore base staff to timely understand the operation status of the ship, Avoiding delays in data transmission that prevent the shore base from establishing stable and effective communication connections with the corresponding personnel of the ship management module in a timely manner is beneficial for the stable and healthy operation of the ship's industrial control host; And it can detect abnormal values during ship operation, even when

the corresponding ship's working condition data does not exceed the preset threshold range, it can also detect abnormal fluctuations within the range. In the early stage of abnormal operation of the corresponding ship operating components, timely feedback can be provided, which is conducive to reducing the expansion of losses.

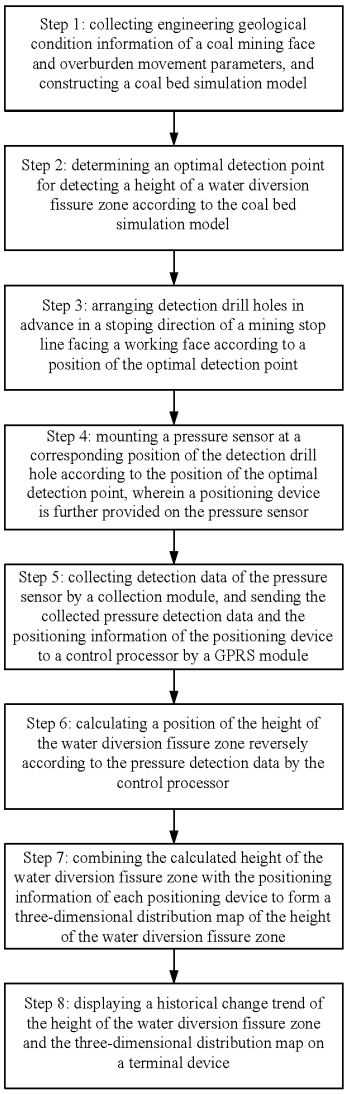


21: 2023/11754. 22: 2023/12/21. 43: 2024/06/25
51: E21B; E21F; G01B; G01L; G06F
71: HUANENG COAL TECHNOLOGY RESEARCH CO., LTD, HUANENG QINGYANG COAL POWER CO., LTD. HETAOYU COAL MINE
72: HU, Bing, LIANG, Gelong, GU, Leiyu, ZHOU, Quanchao, JIAO, Jianjun, YANG, Xiaoquan, FENG, Laihong, YIN, Caiyun, HAO, Jiaoyang
33: CN 31: 2023106516018 32: 2023-06-02

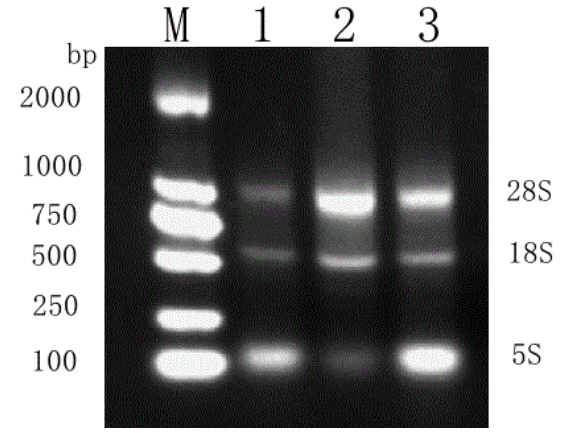
54: METHOD AND SYSTEM FOR CONTINUOUSLY MONITORING HEIGHT OF WATER DIVERSION FISSURE ZONE UNDERGROUND IN REAL TIME

00: -

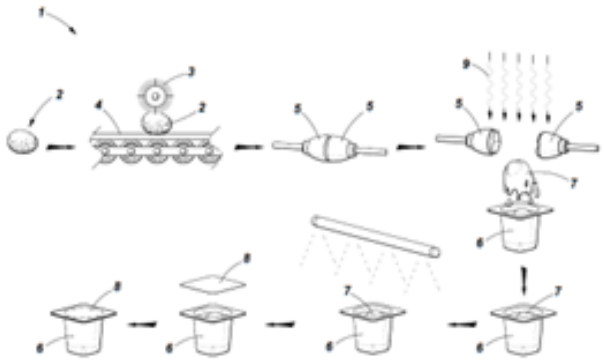
The present invention discloses a method and a system for continuously monitoring a height of a water diversion fissure zone underground in real time, and relates to the technical field of height monitoring of the water diversion fissure zone. The method comprises the following steps: firstly, collecting related geographic information to construct a coal bed simulation model, and determining an optimal detection point for detecting a height of a water diversion fissure zone; according to a position of the optimal detection point, arranging detection drill holes in advance in a stoping direction of a mining stop line facing a working face; according to the position of the optimal detection point, mounting a pressure sensor at a corresponding position of the detection drill hole, wherein a positioning device is further provided on the pressure sensor; collecting detection data of the pressure sensor; calculating a position of the height of the water diversion fissure zone reversely according to the pressure detection data; combining the height of the water diversion fissure zone with the positioning information to form a three-dimensional distribution map of the height of the water diversion fissure zone; and displaying a historical change trend of the height of the water diversion fissure zone and the three-dimensional distribution map on a terminal device. According to the present invention, the detection drill holes and the sensors are properly arranged, so that the underground real-time monitoring efficiency of the height of the water diversion fissure zone is improved.



21: 2023/11757. 22: 2023/12/21. 43: 2024/06/25
51: C07K
71: Yunnan Agricultural University
72: Hua Chang, Xun Xiang, Gang Duan, Feiyan Dai
33: CN 31: 202311302008.9 32: 2023-10-10
54: APPLICATION OF A RED-BILLED GULL IFN-GAMMA GENE AND ITS ENCODED RECOMBINANT PROTEIN
00: -
The invention relates to the application of IFN-gamma gene and recombinant protein encoded by the red-billed gull, belonging to the field of biology. Firstly, we need to first discover the IFN-gamma gene of the red-billed gull, and then recombine the gene with pET32a(+) vector to obtain a prokaryotic expression plasmid. The recombinant plasmid was transformed into Transetta(DE3) expressing bacteria, and the recombinant protein was purified by adding IPTG inducer to induce protein expression. The transcription levels of related genes were detected after the recombinant protein and Newcastle disease virus were incubated with red-billed gull lymphocytes respectively. Recombinant protein and newcastle disease virus (NDV) were co-incubated with red-billed gull lymphocytes to detect the transcription level of related genes. This indicated that NDV incubated red-billed gull lymphocytes and activated the immune system of red-billed gull, and the recombinant protein IFN-gamma played an anti-NDV role.

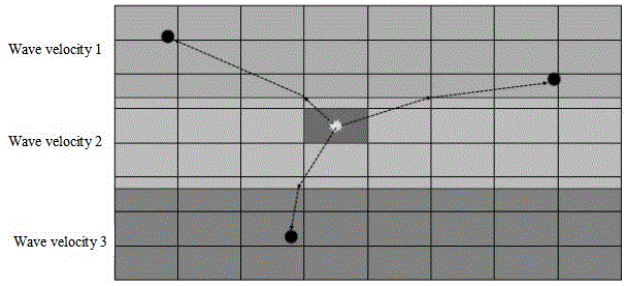


21: 2023/11764. 22: 2023/12/21. 43: 2024/06/25
51: A23B
71: BLOM, Gert Frederick
72: BLOM, Gert Frederick
33: ZA 31: 2021/04765 32: 2021-07-08
54: PACKAGING SYSTEM AND METHOD
00: -
This invention relates to a packaging system and method, and more particularly, but not exclusively, to a packaging system and method for packaging eggs. The packaging system comprises receiving means for receiving an egg, separation means for breaking an egg to separate egg content from an eggshell of the egg, a container for receiving the egg content therein, radiation means for sterilising the container with the egg content therein, and sealing means for sealing the opening of the container.

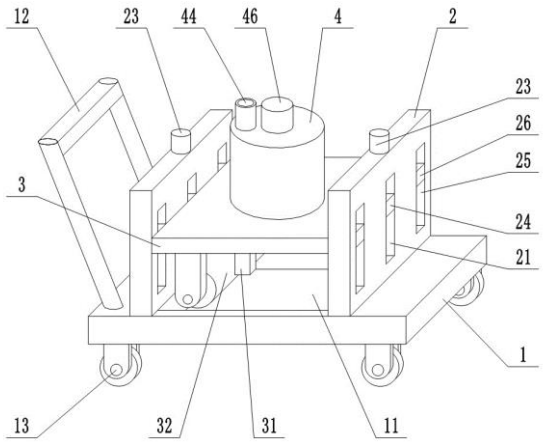


21: 2024/00008. 22: 2024/01/02. 43: 2024/07/04
51: G01V
71: Huainan Normal University
72: LI Fenghui, LI Dong, DOU Litong, HUANG Kaifeng, BI Yaoshan, ZHAN Keliang
54: METHOD FOR MICROSEISMIC EVENT LOCATING IN LAYERED STRATA
00: -
The invention belongs to the technical field of microseismic source positioning, in particular to a method for microseismic event locating in layered strata, and the specific steps of the microseismic positioning method are as follows: Step 1, establishing a wave velocity model; Step 2, dividing the grid; Step 3, set that position of the microseismic or acoustic emission sensor; Step 4, each grid center is used as a sound source or a source position, and the propagation time of the wave from the source position to the sensor is calculated. The application takes into account the non-uniform wave velocity model, has strong adaptability and adjustable grid size, can give consideration to the positioning accuracy of key areas and the overall running speed of the system, and can improve the positioning accuracy in height according to the sedimentary rock layer or the coal-rock combination,

thus greatly improving the positioning accuracy, having high positioning speed, and directly positioning the earthquake position by comparing with the data in the database.



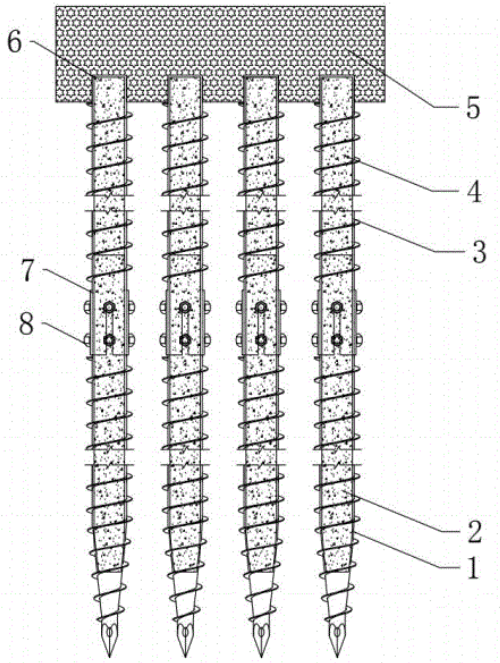
21: 2024/00009. 22: 2024/01/02. 43: 2024/07/04
51: E01C
71: Henan University of Urban Construction
72: ZHANG Huiyuan, PENG Lansi, LI Hui, HU Guoping, ZHANG Yongcun, LIU Jiawei
54: HIGHWAY CRACK TREATMENT DEVICE
00: -
The invention relates to the technical field of highway maintenance, in particular to a highway crack treatment device, which includes a bottom plate, where one side of the top surface of the bottom plate is fixedly connected with handrail; the top surface of the bottom plate is symmetrically and fixedly connected with support plates; the top surface of the bottom plate is provided with a through groove, the through groove is arranged between two support plates; a lifting assembly is arranged between the two support plates; a roller and an adjusting assembly are arranged below the lifting assembly; the roller is arranged close to the handrail; and the top surface of the lifting assembly is provided with a thermal insulation cylinder, the thermal insulation cylinder is correspondingly arranged with an adjusting assembly, the bottom surface of the bottom plate is fixedly connected with a plurality of universal wheels. The adjusting assembly can be adjusted according to the bending state of the crack, so that materials can be effectively filled into the cracks, and the operation of repairing the crack is simple and fast.



21: 2024/00010. 22: 2024/01/02. 43: 2024/07/04
51: B01D
71: Huadian Water Equipment (Tianjin) Co., Ltd., Tianjin University
72: ZHANG, Mengling, DING, Hui, ZHAO, Dan, ZHAO, Rui, YE, Shurong, XUN, Hongmin
54: FIBROUS COMPOSITE MULTILAYER FORWARD OSMOSIS MEMBRANE AND PREPARATION METHOD AND APPLICATION THEREOF
00: -
Provided is a fibrous composite multilayer forward osmosis membrane and a preparation method and application thereof. The fibrous composite multilayer forward osmosis membrane includes an active layer, a porous support layer, a separation layer and a porous framework layer in sequence from outside to inside. The porous framework layer is configured to gather pollutants and carry and strip the pollutants from the separation layer. According to the present invention, a polyamide porous framework layer is directly formed on an inner wall of the separation layer, and the polyamide porous framework layer cannot be stripped and separated in a water treatment process. When a membrane filament is washed, the polyamide porous framework layer is likely to be separated from the separation layer due to low combined strength of polyamide and the separation layer. Thus, the pollutants are carried and separated from the separation layer.

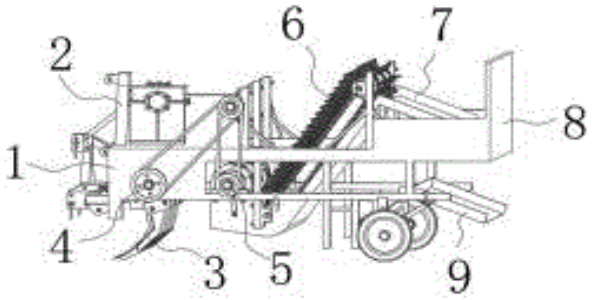
21: 2024/00011. 22: 2024/01/02. 43: 2024/07/04
51: E02D
71: Xiangtan University
72: WU, Wenpeng, ZHANG, Chao, XU, Fu
54: FULLY-ASSEMBLED THREADED STEEL PIPE UHPC COMBINED PILE FOUNDATION

00: -
A fully-assembled threaded steel pipe ultra-high-performance concrete (UHPC) combined pile foundation is disclosed, relating to the technical field of pile foundations. The apparatus includes a supporting bearing platform and a plurality of pile foundation single bodies, where a plurality of mounting grooves are arranged on the supporting bearing platform, and upper ends of the pile foundation single bodies extend into the mounting grooves; the pile foundation single body includes one threaded steel pipe pilot pile and several threaded steel pipe extension piles; a pilot precast filling pile is provided inside the threaded steel pipe pilot pile, and an extension precast filling pile is provided inside each threaded steel pipe extension pile.



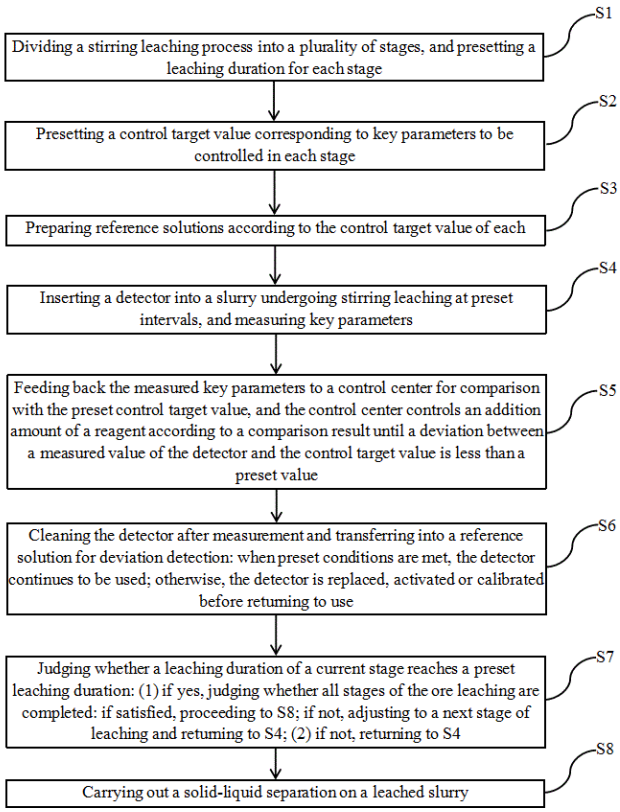
21: 2024/00012. 22: 2024/01/02. 43: 2024/07/04
51: A01H
71: Guizhou Normal University
72: LIU Jie, LIU Xing, QIU Xiangting, GU Yunying
54: HYBRIDIZATION METHOD CAPABLE OF IMPROVING SEED SETTING RATE OF DENDROBIUM CANDIDUM
00: -
The invention provides a hybridization method capable of improving seed setting rate of Dendrobium candidum, and relates to the technical field of plant hybridization. The invention can solve the problem of low seed setting rate of Dendrobium candidum hybridization under natural conditions; at the same time, it can also screen out the Dendrobium candidum types that can go through the elimination of natural environment, have higher seed setting rate than ordinary hybrid varieties, and have excellent characters. The hybrid of the present invention has high seed setting rate, excellent characters of its parents, and good stress resistance in natural environment.

21: 2024/00013. 22: 2024/01/02. 43: 2024/07/04
51: A01B
71: Tarim University
72: AN Jing, ZHANG Yongcheng, LIU Yang, ZHANG Hong, TANG Yurong, NIU Hao
33: CN 31: 202310478526X 32: 2023-04-28
54: FILM-WINDING STUBBLE-COLLECTING DEVICE FOR RECYCLING RESIDUAL FILMS
00: -
The invention discloses a film-winding stubble-collecting device for recycling residual films, which relates to the technical field of agricultural film recycling, and comprises a frame body for fixing and installing various components, which is connected with a power traction mechanism through a suspension frame; a film stripping shovel, a residual film winding and bundling assembly, a stubble cleaning guide roller and a residual film conveying device are arranged on the frame body from front to back, and a film guide plate, a film collecting box and a discharging plate are arranged behind the residual film conveying device.

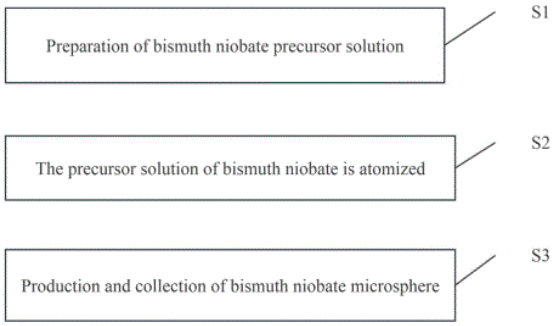


21: 2024/00015. 22: 2024/01/02. 43: 2024/07/04
51: C22B
71: Beijing Research Institute of Chemical Engineering and Metallurgy
72: JIA Xiumin, LIU Jinlin, SHI Liuyin, LIU Hui, LIU Zhongchen, ZHONG Pingru, XIANG Qiulin, QUE Weimin, SU Xuebin

33: CN 31: 2022116831207 32: 2022-12-27
54: CONTROL METHOD OF TANK LEACH PROCESS OF HIGH SOLID CONTENT SLURRY CONTAINING COARSE PARTICLES
00: -
The invention disclose a control method of tank leach process of high solid content slurry containing coarse particles, where the control method includes: segmenting leaching and presetting the leaching duration of each stage; setting the control target value of different stages; configuring the corresponding reference solution of each stage; conducting parameter measurement; feeding back the measured parameters to the control center to achieve automatic addition of materials, and carrying out parameter control and calibration of the detection device at regular intervals; carrying out the stage leaching; and obtaining the leaching residue and the leachate through solid-liquid separation of the leached slurry at the end of the leaching process. The method adopted in the present invention enables precise control of the parameters of the leaching process, thus effectively improving the leaching rate of the target minerals, inhibiting the dissolution of impurity elements, and reducing the reagent consumption of the leaching process.



21: 2024/00016. 22: 2024/01/02. 43: 2024/07/04
51: B01J
71: Kunming University of Science and Technology
72: Yanfeng LU, Pengkun HAN, Yi QIANG, Ronggao QIN, Guangzhu CAO
54: A PREPARATION METHOD OF BISMUTH NIOBATE MULTI-HOLE MICROSPHERES WITH PHOTOCATALYTIC ACTIVITY
00: -
A preparation method of bismuth niobate multi-hole microspheres with photocatalytic activity, which belongs to the field of photocatalytic technology, and includes: preparation of bismuth niobate precursor solution; the precursor solution of bismuth salt is atomized; production and collection of bismuth niobate microspheres. The present invention uses an organic niobium source to form a solution state for use in atomization methods to prepare bismuth niobate multi-hole micro spheres with rough and multi-hole surfaces and an average diameter of 1-3um, and the overall preparation process is simple, easy to control, cost-effective, and easy to scale production.



21: 2024/00018. 22: 2024/01/02. 43: 2024/07/04
51: A23K
71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences
72: Wei YOU, Fugui JIANG, Enliang SONG, Haijian CHENG, Xin HU
54: A FEEDSTUFF FOR IMPROVING GROWTH PERFORMANCE OF BEEF CATTLE AND PREPARATION METHOD THEREOF
00: -
The present invention discloses a feedstuff for improving growth performance of beef cattle and preparation method thereof, the feedstuff was made from a basal feedstuff and Aspergillus oryzae

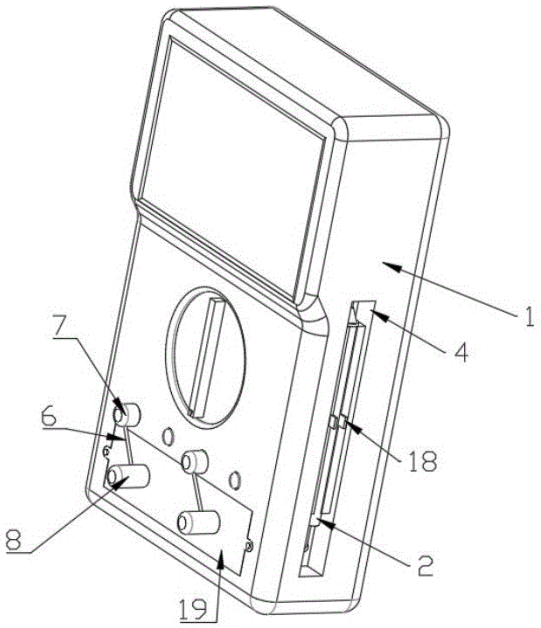
culture; the basal feedstuff is made from the following raw materials: corn, soybean meal, corn germ meal, spray corn bran, wheat bran, beer grains, salt, sodium bicarbonate, premix, alfalfa hays, and straw. The advantageous effects of the present invention are: the feedstuff of the present invention can not only improve the growth performance and the apparent digestibility of nutrients of beef cattle, improve the rumen fermentation, but also enhance the antioxidative function of the organism.

21: 2024/00019. 22: 2024/01/02. 43: 2024/07/04
51: G01R
71: Zhejiang Technical Institute of Economics
72: TENGFEI XIANG, JIANJUN XU, ZHENGKAI WANG, YU ZHANG, YU WU, ZIYUN YAO, HAONAN YU, ZUNSHENG XIAO, JIABO YU

54: A PORTABLE CIRCUIT TESTING INSTRUMENT

00: -

The present invention provides a portable circuit testing instrument, including a multimeter body, two testing pens, the lower end of the multimeter body is provided with a storage slot, the storage slot is rotationally connected to the two sides of the corresponding arrangement of the reel sleeve, the multimeter body is provided with a knob to drive the rotation of the reel sleeve, the reel sleeve is fixedly connected to a conductive column, and includes a connecting line, the connecting line is fixedly connected to a first connecting plug that is compatible with the conductive column, the other end of the connecting line is fixedly connected to a second connecting plug that is compatible with the multimeter body, the multimeter body is provided with a pen slot on both sides, the pen slot is provided with a through-hole between the pen and the body, and the testing pen slot is provided with a hole. There is also a connection line, one end of which is fixedly connected to a first connection plug that cooperates with the conductive column, and the other end of which is fixedly connected to a second connection plug that cooperates with the body of the multimeter, and the body of the multimeter is provided with a pen slot on both sides, and there is a through-hole between the pen slot and the storage slot, and there is a connecting wire that is fixedly connected to the detection pen at one end of which is fixedly connected to the conductive conductor, and there is a connecting ring that cooperates with the conductive column at one end of which is fixedly connected. The advantage of this utility model over the prior art is that it is convenient to store the testing pen and the connecting wire, and it is easy to carry.



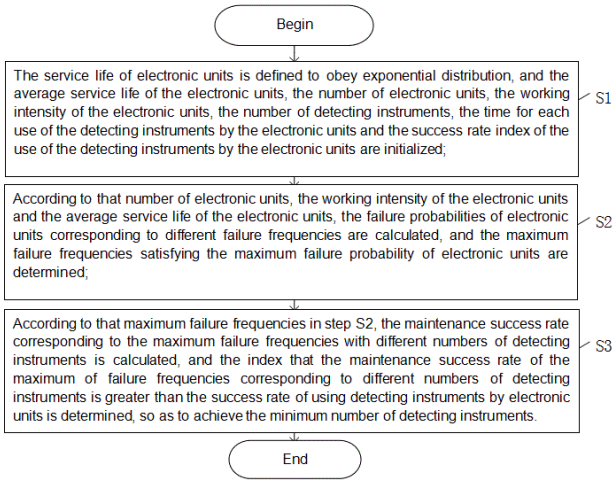
21: 2024/00020. 22: 2024/01/02. 43: 2024/07/04
51: G05B
71: Southwest university
72: Qiu Junyi, Li jinhui, Lyu Meining, Wang Jie, Dong Tao
33: CN 31: 2023114360285 32: 2023-10-31

54: METHOD FOR CONFIGURING THE NUMBER OF DETECTING INSTRUMENTS

00: -

The invention discloses a method for configuring the number of detecting instruments, which comprises the following steps: the service life of electronic units is defined to obey exponential distribution, and the average service life of the electronic units, the number of electronic units, the working intensity of the electronic units, the number of detecting instruments, the time for each use of the detecting instruments by the electronic units and the success rate index of the use of the detecting instruments by the electronic units are initialized; the working intensity of the electronic units and the average service life of the electronic units, the failure

probabilities of electronic units corresponding to different failure frequencies are calculated, and the maximum failure frequencies satisfying the maximum failure probability of electronic units are determined; the maintenance success rate corresponding to the maximum failure frequencies with different numbers of detecting instruments is calculated, and the index that the maintenance success rate of the maximum of failure frequencies corresponding to different numbers of detecting instruments is greater than the success rate of using detecting instruments by electronic units is determined, so as to achieve the minimum number of detecting instruments. In this method, the maintenance success rate of the maximum failure frequency corresponding to the number of different detecting instruments is calculated, and the minimum number of detecting instruments that meet the success rate index is found, so as to configure the detecting instruments more reasonably.

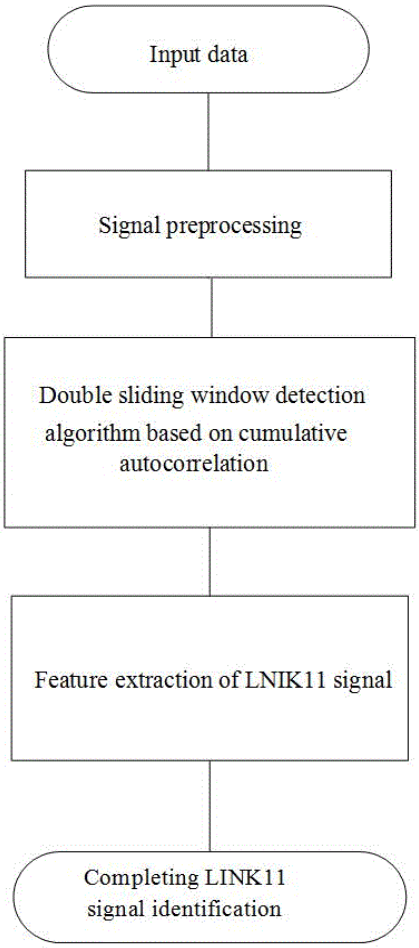


21: 2024/00021. 22: 2024/01/02. 43: 2024/07/04
51: G06K
71: Jiaxing Vocational & Technical College
72: Chunfang Gao, Yifan Chen, Xiaoji Wei, Yanjun Ji, Wenhong Xiao

54: LINK11 SIGNAL IDENTIFICATION METHOD BASED ON CUMULATIVE AUTOCORRELATION

00: -

The invention discloses a LINK11 signal identification method based on cumulative autocorrelation, which mainly solves the problem that the error identification rate of the LINK11 signal is too high under the condition of low signal-to-noise ratio, especially the tactical data link link LINK11 signal is a short-time burst signal and the burst duration is uncertain, resulting in relatively little effective data, which makes the signal identification extremely difficult. The method comprises the following steps: 1) signal preprocessing to obtain a discrete signal sampling sequence s(n); 2) extracting the effective data by the double sliding window algorithm based on cumulative autocorrelation to obtain the effective data segment s'(n) of LINK11; 3) according to the frequency domain characteristics of LINK11, 16 audio data are extracted, and the CLEW waveform of LINK11 signal is identified according to the power difference between 605Hz and other 15 tones. On that premise that the signal-to-noise ratio is high than 10dB, the invention quickly and accurately realizes the identification of the LINK11 signal, and the identification accuracy rate can reach more than 90%, and provides reliable demodulation parameters for subsequent demodulation work and can be used in communication reconnaissance integrated system.

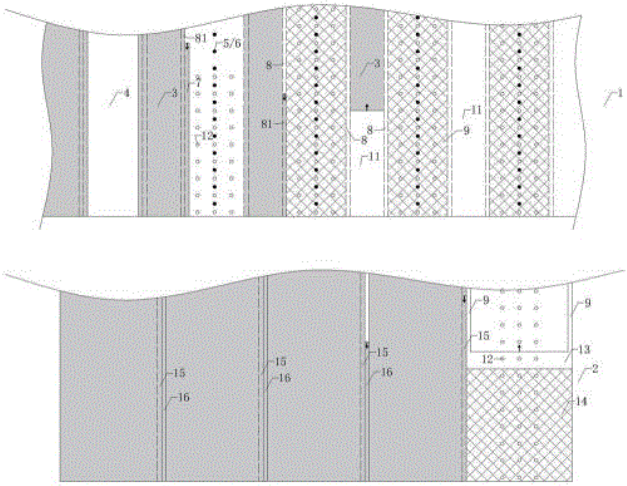


21: 2024/00023. 22: 2024/01/02. 43: 2024/07/04
51: E21D
71: Henan University of Urban Construction, China PingMei ShenMa Group
72: LIU Jiawei, LI Hui, LI Peng, FENG Yanan, XIA Yingzhi, HU Guoping, ZHANG Huiyuan

54: METHOD FOR MAINTAINING STABILITY OF SURROUNDING ROCKS BY DOWNWARD PASTE FILLING OF PRESSED COAL UNDER WATER BODY BASED ON DIGITAL TWIN

00: -

The invention discloses a method for maintaining stability of surrounding rocks by downward paste filling of pressed coal under water body based on digital twin; the invention uses the digital twinning technology to set single hydraulic pillars to actively support the surrounding rock of roof in strip goaf, so that the filling body can also actively support the surrounding rock of roof, reducing or even overcoming the original uncontrollable subsidence; by removing part of the slack zone and keeping a certain width of the slack zone, the control effect of overlying strata can be improved, and the roadway with strip coal pillar can be ensured to be beneficial to driving and supporting. The mining roadways of the lower coal seam is arranged in the stress release below the middle part of the upper coal seam after the strip coal pillar is recovered, which is beneficial to excavation and maintenance; the filling through holes are set up to simplify the engineering quantity of the filling pipeline, thus reducing the interference of mining and filling in the lower coal seam and making the mining speed of the upper and lower coal seams match as much as possible; the inclined mining is adopted, which improves the throwing speed of gangue and the flowing speed of paste, so that the paste materials are completely connected to the top; in addition, the gangue filling and paste filling are mixed without special crushing.

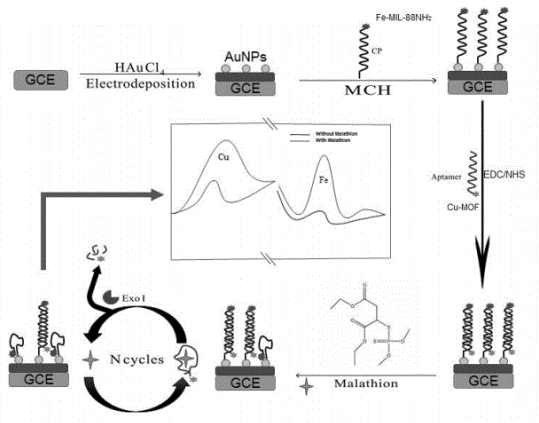


21: 2024/00026. 22: 2024/01/02. 43: 2024/07/04
51: G01N
71: Henan University of Animal Husbandry and Economy
72: LIU, Juntao, WANG, Huafen, CUI, Liwei, MA, Zhiwei, ZHANG, Jiaxiang, XU, Jun

54: RATIO-TYPE ELECTROCHEMICAL SENSOR BASED ON MOF DUAL-SIGNAL PROBE, AND PREPARATION METHOD AND DETECTION METHOD THEREOF

00: -

The present invention provides a ratio-type electrochemical sensor based on an MOF dual-signal probe, and a preparation method and a detection method thereof, which fall within the technical field of electrochemical sensors. The present invention uses an Fe-MIL-88NH2 signal probe and a Cu-MOF signal probe as a dual-signal probe. When malathion exists in a sample to be tested, based on competition, malathion specifically combines with S2-Cu-MOF on the electrode substrate surface and falls off from the electrode surface, and the Cu2+ signal is reduced under the cyclic amplification of the signal amplifier exonuclease. Since S2-Cu-MOF specifically combined with malathion departs from Sl-Fe-MIL-88NH2, the complementary strand in Sl-Fe-MIL-88NH2 forms a stem-loop structure and the Fe3+ signal is enhanced. Therefore, the present invention provides the electrochemical sensor capable of achieving dual-signal quantitative detection of Fe3+ and Cu2+.

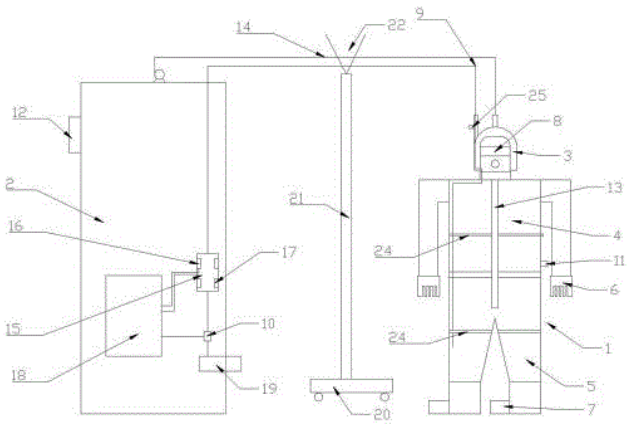


21: 2024/00027. 22: 2024/01/02. 43: 2024/07/04
51: A41D
71: Jiaxing Vocational & Technical College
72: WANG Qinhua

54: SAFETY WORK CLOTHES FOR PREVENTING BLOCKING VISION AND USING METHOD THEREOF

00: -

The invention discloses a work clothes for preventing blocking vision and a use method thereof. The work clothes comprises a clothing body and an external cabinet, wherein the clothing body comprises comprises a helmet, an upper garment and lower garment, the helmet is hermetically connected with the neckline of the upper garment, the upper garment and the lower garment are hermetically connected, gloves are hermetically connected at the cuffs of the upper garment, boots are connected at the trouser legs of the lower garment, the interior of the helmet is sealed, and an observation mirror is arranged on the helmet; the helmet is connected with an air exchange pipe, an air exchange pump is installed in the external cabinet, the air exchange pipe is connected with the air exchange pump, a one-way air valve is arranged on the upper garment and lower garment, a toxic gas detector is installed in the helmet, the toxic gas detector is connected with an alarm, and the alarm is installed on the external cabinet The work clothes for preventing the blocking of vision are suitable for use in special places with toxic gases such as sewers, biogas digesters and chemical treatment tanks, and the safety of workers at work is improved.

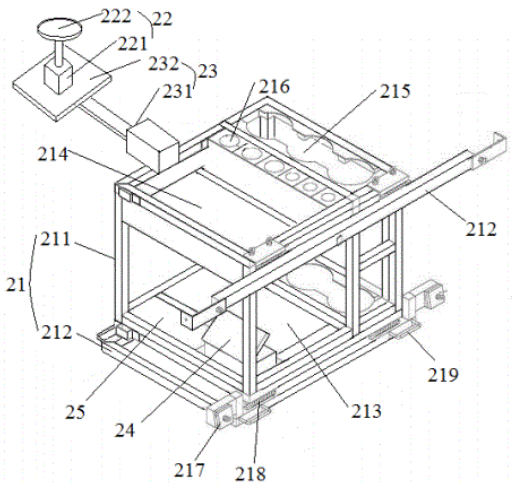


21: 2024/00028. 22: 2024/01/02. 43: 2024/07/04
51: G01D
71: South China University of Technology
72: OU, Runhua

54: ENVIRONMENTAL MONITORING EQUIPMENT SUPPORT AND ENVIRONMENTAL MONITORING VEHICLE

00: -

The present invention discloses an environmental monitoring equipment support and an environmental monitoring vehicle, and relates to the technical field of environmental monitoring devices. The environmental monitoring equipment support includes an equipment frame, a first driving component and a second driving component. The equipment frame is detachably arranged in a compartment, and there are a plurality of placing positions where different pieces of monitoring equipment are placed on the equipment frame. The first driving component is fixedly provided with a monitoring probe and is configured to drive the monitoring probe to rotate. The second driving component is fixedly connected to the equipment frame and the first driving component, and the second driving component is configured to drive the first driving component and the monitoring probe to move in a direction where the first driving component and the monitoring probe stretch out of or are withdrawn from the compartment.



21: 2024/00029. 22: 2024/01/02. 43: 2024/07/04
51: A01H
71: Liaoning Institute of Economic Forestry
72: LIU, Zhenpan, YOU, Wenzhong, LU, Liyuan, SUN, Yang, SONG, Jianyu, LIANG, Taiming, YANG, Weicong, ZHENG, Zeyang, ZHANG, Xuemei, ZHANG, Yonghua

54: RAPID SCREENING METHOD FOR POLLINATION MALE PLANTS IN ACTINIDIA ARGUTA ORCHARD AND APPLICATION THEREOF

00: -

The present invention provides a rapid screening method for pollination male plants in an Actinidia arguta orchard and application thereof and relates to the technical field of pollinizer configuration. The present invention analyzes the effects of the pollinizer selection and configuration of Actinidia arguta on the fruit by the methods of flowering phase investigation, pollen viability determination, seed setting rate detection, and fruit quality detection, centers around the scientific establishment of Actinidia arguta orchards and the promotion of yield and quality enhancement, and lays a foundation for improving the efficiency of orchard management and realizing efficient and standardized cultivation of Actinidia arguta.

21: 2024/00030. 22: 2024/01/02. 43: 2024/07/04
51: C12N
71: Institute of Microbiology, Jiangxi Academy of Sciences (Jiangxi Institute of Watershed Ecology)
72: WANG, Hongxiu, ZHANG, Hongyu, ZHANG, Zhihong, YANG, Chunhua, LI, Ya, LIU, Lan, DENG, Tao, GU, Bintao

54: APPLICATION OF BACTROCERA DORSALIS INTESTINAL BACTERIA IN PREPARING BACTROCERA DORSALIS ATTRACTANT

00: -

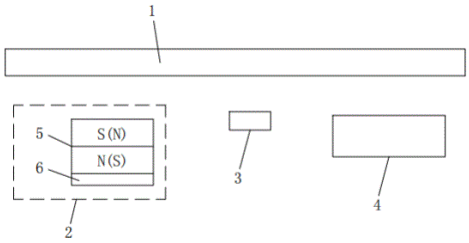
Provided is application of Bactrocera dorsalis intestinal bacteria in preparing a Bactrocera dorsalis attractant, belonging to the technical field of intestinal microorganisms. Bacillus cereus, Enterococcus faecalis, Enterobacter cloacae, or Citrobacter freundii fermentation broths are used in the present invention to attract Bactrocera dorsalis, which has a strong attraction effect on male and female Bactrocera dorsalis, providing a theoretical basis for the field control of Bactrocera dorsalis.

21: 2024/00031. 22: 2024/01/02. 43: 2024/07/04
51: G01N
71: ZHANG, Zanguo
72: ZHANG, Zanguo
33: CN 31: 2023115066655 32: 2023-11-13

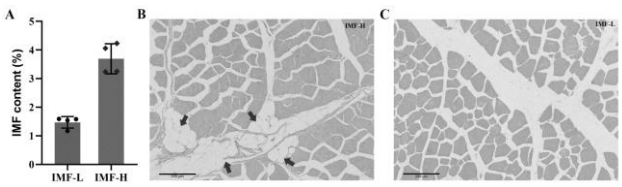
54: OPEN-TYPE DETECTION DEVICE AND METHOD FOR STEEL WIRE ROPE

00: -

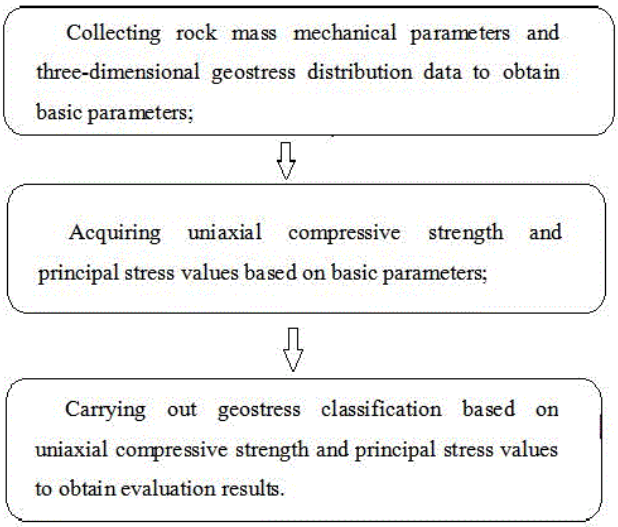
Disclosed are an open-type detection device and method for a steel wire rope. The device includes a micro-magnetic exciter, a detection element array and a signal preprocessing device that are arranged in a direction of the steel wire rope, where the detection element array is in signal connection with the signal preprocessing device; the micro-magnetic exciter is an open-loop micro-magnetic exciter, and the micro-magnetic exciter is configured to carry out open-type magnetization on the steel wire rope; and the detection element array is configured to identify a state of a magnetic field generated by the micro-magnetic exciter and transmit an identification signal to the signal preprocessing device. According to the present invention, an open-type detection structure is used, detection reliability is improved, an apparatus is small in size and light in weight, cost is low, and field installation is convenient.



21: 2024/00032. 22: 2024/01/02. 43: 2024/07/04
51: C12Q
71: Institute of Animal Science and Veterinary Medicine, Shandong Academy of Agricultural Sciences, Zhejiang University
72: ZHAO Xueyan, WANG Jiying, SHAN Tizhong, LI Jingxuan, GUO Jianfeng, WANG Yanping
54: APPLICATION OF TUSC5 GENE ASSOCIATED WITH INTRAMUSCULAR FAT CONTENT IN DUROC PIGS
00: -
The invention discloses an application of TUSC5 gene associated with intramuscular fat content in Duroc pig, and belongs to the field of biotechnology. According to the invention, individuals with significant differences in intramuscular fat content are utilized to find the gene TUSC5 related to intramuscular fat in Duroc pigs through integrated analysis based on RNA-seq transcriptomics and TMT-based proteomics, and the role of TUSC5 in fat deposition is verified through verification and analysis at the cellular level, thus laying a theoretical foundation for the study of intramuscular fat deposition mechanism in pigs and providing a certain basis for the research of cultivating high-quality pig and preventing diseases related to lipid metabolism. The invention establishes a method for screening individuals with high or low intramuscular fat content in pigs by using the expression level of the gene, which lays a foundation for the prediction and genetic improvement of intramuscular fat traits in pigs by using the gene.



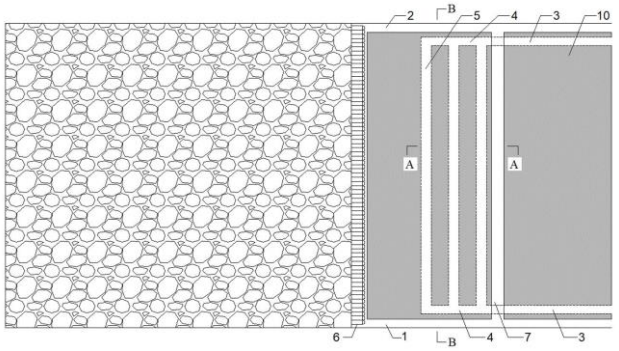
21: 2024/00033. 22: 2024/01/02. 43: 2024/07/04
51: E21D
71: SHAOXING UNIVERSITY
72: SHA Peng, WU Faquan, LI Bo, GUO Pengfei
54: METHOD, SYSTEM, APPARATUS AND MEDIUM FOR EVALUATING HIGH GROUND STRESS STATE OF ROCK MASS
00: -
The invention discloses a method, a system, an apparatus and a medium for evaluating high ground stress state of rock mass, belonging to the technical field of high ground stress state evaluation. The method comprises the following steps: collecting rock mass mechanical parameters and three-dimensional geostress distribution data to obtain basic parameters; acquiring uniaxial compressive strength and principal stress values based on basic parameters; carrying out geostress classification based on uniaxial compressive strength and principal stress values to obtain evaluation results. According to the invention, the geostress classification is carried out by the uniaxial compressive strength of the rock mass and the principal stress value, and the geostress state of the rock mass is obtained. And the rationality of the invention is verified by experiments.



21: 2024/00034. 22: 2024/01/02. 43: 2024/07/04
51: H01M
71: Henan University of Urban Construction
72: DANG Liyun, ZHANG Shuaiguo, GUO Yan, HU Jiyong, XUE Fei, ZHANG Jia'ni, LIU Jiachun, ZHENG Fangye, CHANG Linlin
54: SILICON-CARBON NEGATIVE ELECTRODE MATERIAL FOR LITHIUM ION BATTERY AND PREPARATION METHOD THEREOF
00: -

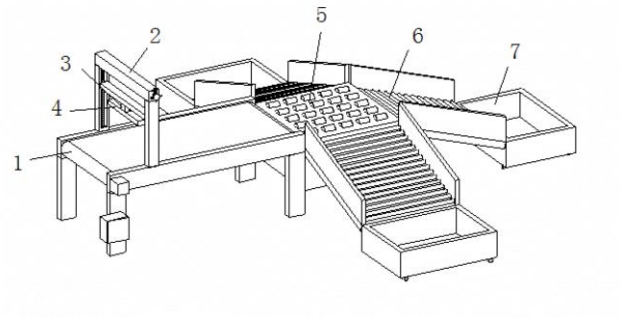
The invention discloses a silicon-carbon negative electrode material for lithium ion batteries and a preparation method thereof, and belongs to the technical field of composite materials. Adding nano silicon, nano silicon oxide, conductive agent and dispersant into deionized water, uniformly stirring, spray drying to obtain composite particles, dispersing the composite particles and tragacanth gum in deionized water to obtain a liquid mixture, grinding the liquid mixture to obtain a suspension, freeze drying the suspension to obtain a solid product, and grinding and heat treating the solid product to obtain the silicon-carbon negative electrode material for lithium ion battery. Nano silicon and silicon oxide materials are combined to give full play to the higher capacity and primary performance of nano silicon and the better structural stability of silicon oxide, and the respective advantages of silicon and silicon oxide are combined. The conductive agent with cross-linking function can alleviate the volume expansion of silicon-based materials while enhancing the conductivity of the materials, thus improving the cycle stability.

21: 2024/00035. 22: 2024/01/02. 43: 2024/07/04
51: E21F
71: Zaozhuang University, Shandong Chengtong Intelligent Equipment Co., Ltd
72: WANG Haohao, ZHENG Libao, SONG Meijiao, FU Liangliang, ZHANG Shengpeng, WU Xinghui
54: ROADWAY LAYOUT METHOD OF FULLY MECHANIZED CAVING FACE IN EXTRA-THICK COAL SEAM
00: -
The invention discloses a roadway layout method of a fully mechanized caving face in an extra-thick coal seam, which includes the following steps: after two roadways of the working face and open-off cuts are excavated along the coal seam floor, excavating end-mining preparation roadways along roof along direction of roof of the coal seam and the working face, excavating end-mining operation roadways along roof parallel to the open-off cuts every periodic weighting pace along end-mining preparation roadways, carrying out loose blasting on the roof of the end-mining working face before the advanced abutment pressure of the working face affects the working face of the end-mining section, and then carrying out roof-cutting presplitting blasting on the mining roadway of the working face, so that the roof in the end-mining section can be fully cracked under permeability improvement. When the working face is pushed to the end-mining section, the roof of the goaf fully collapses, the gangue filling degree is good, and the ability to support the overlying strata is greatly improved compared with the natural caving method, thus optimizing the distribution of the advanced abutment pressure in the stope, reducing the apparent strength of the advanced abutment pressure in the working face, reducing the size of the end-mining coal pillar, optimizing the stress environment of the retreating roadway, and recovering some coal resources in the end-mining coal pillar.



21: 2024/00036. 22: 2024/01/02. 43: 2024/07/04
51: B65G
71: Guangzhou College of Technology and Business
72: Xiao Lianying, Qiao Pengliang, Wang Wenjuan, Zhang Hanfang
54: A SORTING AND CONVEYING DEVICE FOR LOGISTICS SUPPLY CHAINS
00: -
This invention discloses a sorting and conveying device for logistics supply chains, belonging to the technical field of object sorting and conveying devices. It includes a conveyor belt, with a conveniently adjustable component positioned at one end above the conveyor belt. Beneath the conveniently adjustable component, there is an assembly component, and below the assembly component sits a scanner. At one end of the conveyor belt, there is an inclined wheel sorter, with a tilt box positioned at the opening of the inclined wheel sorter. At one end of the tilt box, there is a collection and transfer component. This invention facilitates the adjustment of the scanner's height by

setting up an adjustment seat, driving rod, handle, bevel gear one, bevel gear two, adjustment screw, lifting block, and lifting plate. Additionally, by incorporating disassembly components such as disassembly seats, disassembly blocks, fixed rods, fixed sliders, fixed springs, and limit plates, it enables the disassembly and maintenance of the scanner. Furthermore, the collection and transfer cart are employed to facilitate the collection and transfer of objects.

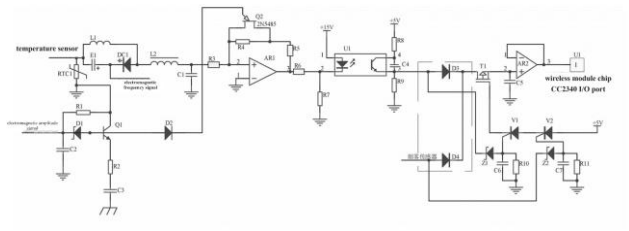


21: 2024/00037. 22: 2024/01/02. 43: 2024/07/04
51: G08B
71: Zhengzhou University of Technology
72: Minchuan WANG, Jihai HUANG, Zhifu ZHU, Jianhang ZENG, Guoli KONG, Chenxian GUO
33: CN 31: 2023234364890 32: 2023-12-15

54: COMPUTER CONTROL EARLY WARNING SYSTEM

00: -

The invention relates to a computer-controlled early warning system, comprising a sensor, a ZigBee chip, and a computer, wherein tunnel fire information collected by a plurality of sensors is transmitted to the ZigBee chip, then through the ZigBee chip, the tunnel fire information collected by the plurality of sensors is transmitted to the computer linked to control a fire alarm assembly and a corresponding sprinkler device, wherein a noise of the tunnel fire information collected by the plurality of sensors is reduced by a tunnel noise interference noise reduction circuit, a signal-to-noise ratio of the tunnel fire information collected by the plurality of sensors is improved by the amplification circuit, and finally, an adjustable frequency of the tunnel fire information controlled by a sensor threshold fusion pre-processing circuit is transmitted to the ZigBee chip.

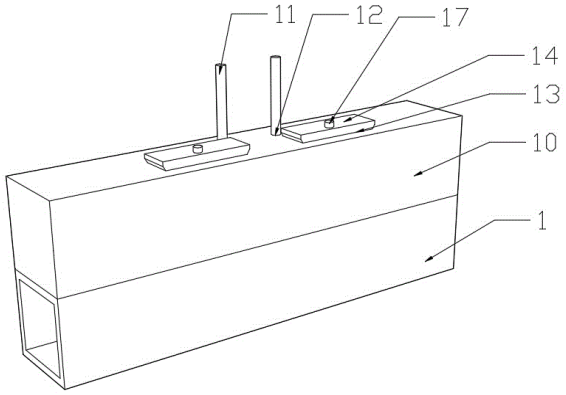


21: 2024/00038. 22: 2024/01/02. 43: 2024/07/04
51: H01M
71: Qinghai University
72: LIU Daoxin, WANG Haijing, LI Ying, YAN Jingyan, JU Xiuting, ZHOU Yuantao

54: ZOKOR HUNTING DEVICE

00: -

The invention discloses a zokor hunting device, which belongs to the technical field of hunting devices, and includes a hunting shell, where two ends of the hunting shell are open, a fence assembly is fixedly connected to the middle part of the inner cavity of the hunting shell, and the top of the hunting shell is provided with two avoidance openings, two avoidance openings are respectively located at two sides of the fence assembly and close to the opening of the hunting shell; a fence assembly, which includes two fences, where the two fences are respectively slidably connected with two avoidance openings; the tops of the fences extend out of the avoidance openings and are fixedly connected with an elastic telescopic assembly through a supporting plate; and one end of the elastic telescopic assembly far from the supporting plate is arranged on a hunting shell; the trigger assembly comprises two sliding plates slidably connected with the inner wall of the hunting shell, the two sliding plates are respectively located at two sides of the fence assembly and are arranged close to the fence assembly, and the top of the sliding plate is in sliding contact with two supporting rods, two supporting rods penetrate through the top of the hunting shell and are fixedly connected with the supporting plate. When the invention is used, no matter which direction the zokor walks in the tunnel, it can effectively round up the zokor, prevent the zokor from escaping and improve the hunting effect of the zokor.

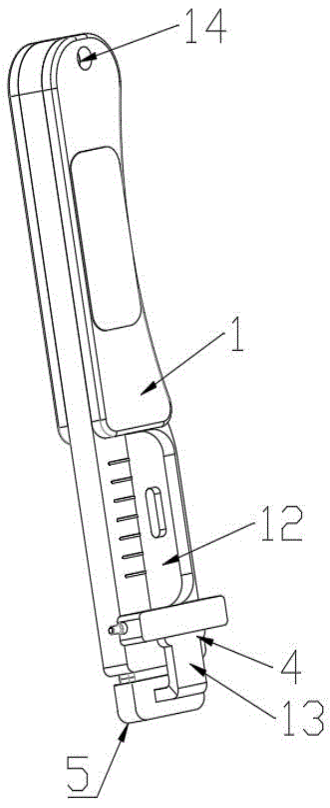


21: 2024/00039. 22: 2024/01/02. 43: 2024/07/04
51: C12M
71: Jiujiang difulai agriculture science and technology development co., ltd, Chinese Academy of Agricultural Sciences Institute of Agricultural Environment and Sustainable Development, National Agricultural Technology Extension Service Center, Shanxi yiyuanfang science and technology development co., ltd, Yuncheng difulai biology science and technology development co., ltd, Microalgae Age (Jilin) Ecological Agriculture Technology Co., Ltd., Shanxi ao gan LV yuan industry technology co., ltd, Nanjing Qian Yan Rong he microalgae biotechnology group co., ltd, Dezhou difulai biology science and technology co., ltd, Chongzuo microalgae life science co., ltd
72: Li Yingchun, Wu Yong, Ji Wei, Wang Kangjie, Zhao Kun, Li Shifeng, Hu Beijuan, Zhang Meiping, Lu Qunwei, Harahiro, Wang Yafan, Yu Guilan, Kong Fantao, Fan Dapeng, Wang Juanping, Zhu Zhu, Liu Yuhua, Liu Yu tong, Qin Kangxi
54: A PRODUCTION EQUIPMENT, PREPARATION METHODS, AND APPLICATIONS OF CARBON SINK ALGAE LIQUID BASED ON PHOTOSYNTHETIC GREEN ALGAE ALGAE
00: -
A carbon sink algae liquid production equipment, preparation method, and application based on photosynthetic green algae. The preparation method includes the following steps: purifying air and purified water are introduced into the algae carbon capture tank; after adding photosynthetic green algae liquid into the tank, a mixture of citric acid, CaCl2, MgSO4•7H2O, KH2PO4, CuSO4•5H2O, EDTA-Fe, and purified water is introduced into the algae carbon capture tank; a mixture of hellebore lectin protein and purified water is introduced into the algae carbon capture tank; the preset light intensity is established and maintained through a lighting device, while the preset temperature is set and maintained by a temperature monitor; continuous cultivation is conducted, and the concentration of photosynthetic green algae is monitored daily by an algae concentration monitor. When the cell concentration reaches the preset peak value, the carbon sink algae liquid in the algae carbon capture tank is discharged into a high-concentration algae liquid storage tank; the carbon sink algae liquid from the high-concentration algae liquid storage tank is transferred to a filling device for packaging to produce carbon sink products suitable for spaces beyond forests, thereby generating greater carbon sink intensity.

21: 2024/00040. 22: 2024/01/02. 43: 2024/07/04
51: A23K
71: Qinghai University
72: LIU Daoxin, YAN Jingyan, JU Xiuting, ZHOU Yuantao, LI Ying
54: COMPOUND FEED FOR CULTIVATING HERMETIA ILLUCENS AND PREPARATION METHOD THEREOF
00: -
The invention discloses a compound feed for cultivating Hermetia illucens and a preparation method thereof, belonging to the field of feed, and comprising the following raw materials in parts by mass: 40-60 parts of Auricularia auricula-judae fungus chaff, 10-50 parts of coconut dregs, 50-70 parts of soybean milk by-product, 20-30 parts of brewer's grains, 5-10 parts of vitamin complex and 2-3 parts of bone meal. The compound feed of the Hermetia illucens provided by the invention can not only accelerate the growth speed and survival rate of the Hermetia illucens, but also improve the economic benefit; moreover, the raw materials of the feed are widely available, the preparation method of the feed is simple, and the cost is low.

21: 2024/00041. 22: 2024/01/02. 43: 2024/07/04
51: G06F
71: Suzhou University
72: Haiyan Gu, Cui Zhang
54: SCANNING PEN FOR ENGLISH TRANSLATION
00: -
The invention discloses a scanning pen for English translation, comprising scanning pen body and

scanning pen point; said scanning pen point is mounted on the bottom end of the scanning pen body, and a protective mechanism is mounted on the side of said scanning pen body; said protective mechanism comprises connecting base, limiting portion, and protective cover, said connecting base being connected to the side of the scanning pen body, said protective cover being detachably connected to the connecting base through the limiting portion so as to protect the scanning pen point. The present invention adopts the above structure to provide a scanning pen for English translation, and adopting the above improved technical solution can realize one-button mounting and dismounting of the protective cover, and directly disassemble the protective cover with one button during the scanning process of the scanning pen; when scanning work is finished, the protective cover can be directly mounted, which can effectively avoid the scanning pen point prone to be damaged when it is left unused, and prolong service life of the scanning pen for English translation.



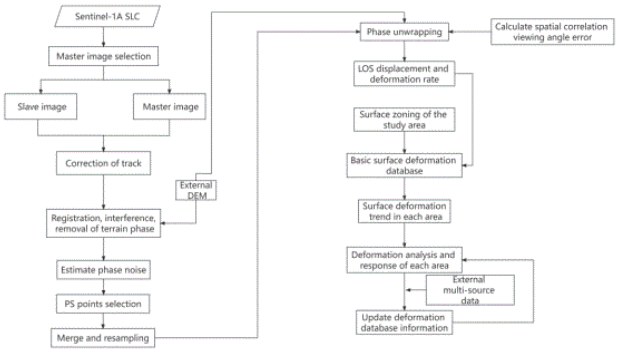
21: 2024/00042. 22: 2024/01/02. 43: 2024/07/04

51: G01B
71: Southwest Jiaotong University
72: Rui ZHANG, Guoxiang LIU, Xin BAO, Anmengyun LIU, Age SHAMA, Jichao LV, Ting WANG, Runqing ZHAN

54: A METHOD FOR EXTRACTING AND MANAGING INFORMATION OF SURFACE UNEVEN DEFORMATION OF AIRPORT IN RECLAMATION AREA

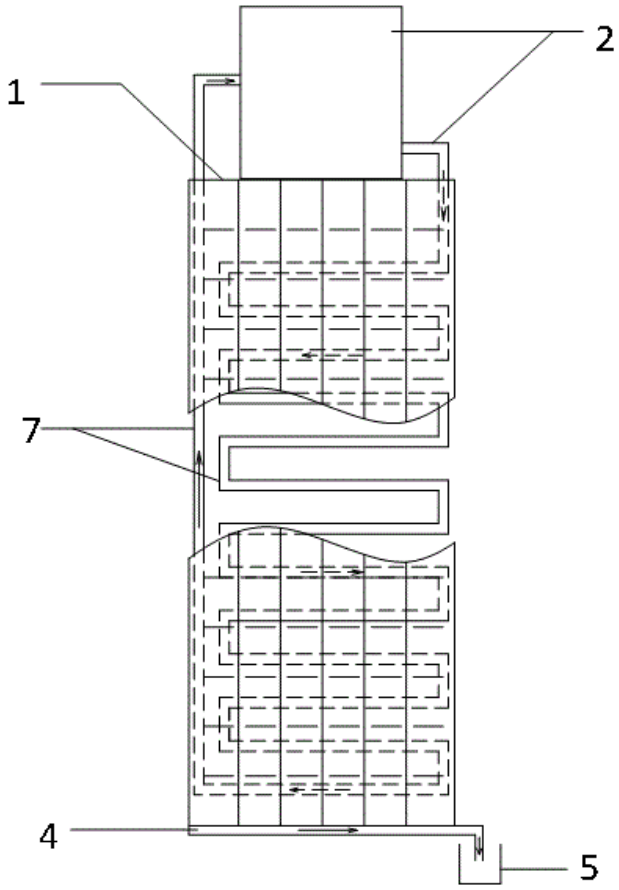
00: -

The present invention discloses a method for extracting and managing information of surface uneven deformation of airport in reclamation area, which mainly relates to the technology field of surface deformation monitoring and information processing, including: step 1: preprocessing the original SAR image, and based on the time series InSAR technology, acquiring the uneven deformation information of the airport surface with image coverage; step 2: dividing the airport in the reclamation area into n areas according to the time of reclamation construction (n is the number of reclamations), and then establishing the basic surface deformation database of the airport in the reclamation area according to the divided area; step 3: on the basis of the surface deformation database, calculating to obtain the surface deformation trends of n areas; step 4: with the continuous acquisition of external multi-source data, updating the basic surface deformation database of the airport in the reclamation area to form a benign cycle of monitoring the surface deformation in the study area. It constitutes a complete system for extracting and managing information of surface uneven deformation, and provides a strong basis for the scientific prevention and control of surface deformation in reclamation airports.



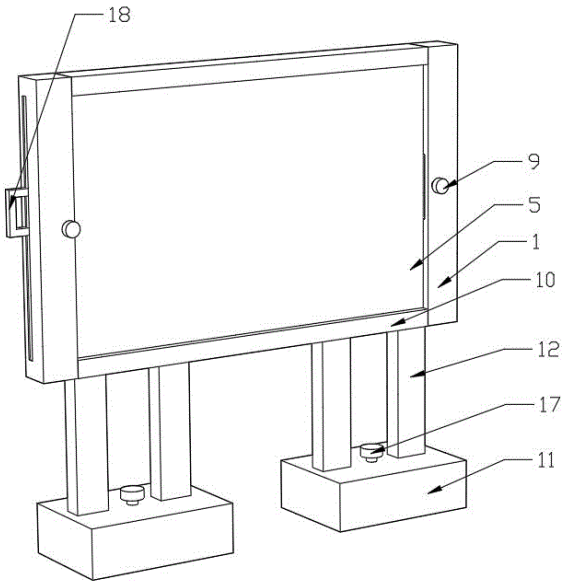
21: 2024/00043. 22: 2024/01/02. 43: 2024/07/04

51: E02B
71: Kunming University of Science and Technology
72: Guangzhu CAO, Ronggao QIN, Baozhu LI, Yi QIANG, Yanfeng LU, Ruoyu MAO
54: AN ANTI-FREEZING AND ANTI-SLIDING DEVICE FOR MINE RAMP
00: -
The invention relates to an anti-freezing and anti-sliding device for mine ramp, which belongs to the field of mine engineering technology. The device includes an anti-freezing system and a heating system. The anti-freezing system includes an anti-freezing and anti-sliding plate and a water collecting tank arranged at the bottom of the anti-freezing and sliding plate. One end of the water collecting tank is connected with a water collecting bottle. The heating system includes a heating device and a circulation pipe connected with the heating device. The device provided by the invention has good anti-freezing effect, does not pollute the environment in the tunnel and can saves energy, it is safe and reliable without open fire, and has simple structure and simple operation.

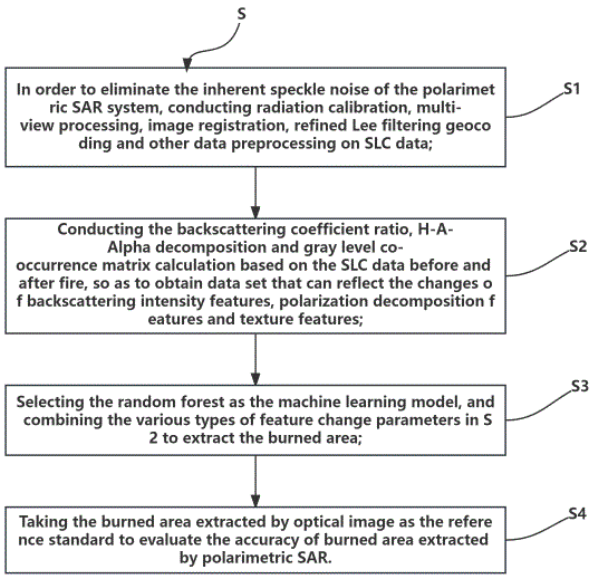


21: 2024/00044. 22: 2024/01/02. 43: 2024/07/04
51: G09F
71: Henan University of Urban Construction
72: WANG Judong, GUO Xiaoran, LIU Jing, LIU Hongyu, MU Xi, WANG Sijia, LIU Jian, WEN Haolin, WANG Yifan
54: INFORMATION DISPLAY DEVICE FOR COLLEGE STUDENTS' EMPLOYMENT GUIDANCE
00: -
The invention discloses an information display device for college students' employment guidance, which belongs to the technical field of information display devices, and includes two side plates, where a back plate is arranged between the two side plates, where the side wall of one side plate is provided with a through groove, and one side of the other side plate near the back plate is provided with a limiting groove, and the back plate penetrates through the through groove and is slidably connected with the limiting groove; a transparent plate is arranged between the two side plates, the transparent plate is opposite to the back plate in the horizontal direction; chutes are respectively

arranged on the opposite side walls of the two side plates; sliders are slidably connected in the chutes; both sides of the transparent plate are fixedly connected with the two sliders respectively; and the side plates are provided with a first driving assembly, the first driving assembly is in transmission connection with the sliders and can drive the transparent plate to be close to or away from the back plate. According to the invention, a small amount of adhesive tapes can be used for simply fixing the paper, and then the transparent plate is driven by the first driving assembly to be close to the back plate to clamp the paper, so that the paper can be conveniently replaced, and meanwhile, the fixing effect on the paper is increased and the display effect is improved.

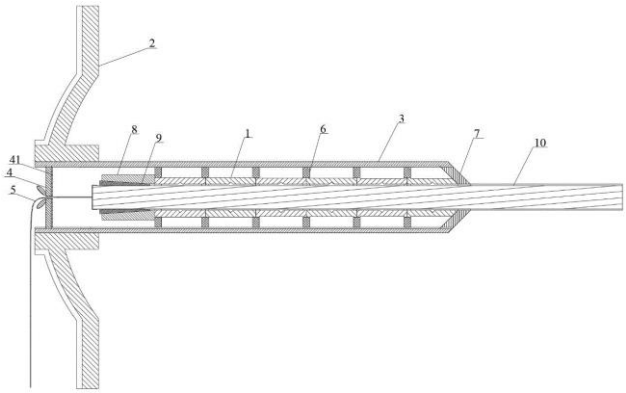


21: 2024/00045. 22: 2024/01/02. 43: 2024/07/04
51: G06T
71: Southwest Jiaotong University
72: Rui ZHANG, Guoxiang LIU, Age SHAMA, Xin BAO, Jichao LV, Ruikai HONG, Xu HE, Renzhe WU
54: AN EXTRACTION METHOD FOR BURNED AREA BASED ON DUAL-POLARIZATION SAR REMOTE SENSING IMAGE
00: -
The invention relates to an extraction method for burned area based on dual-polarization SAR remote sensing image, which belongs to the field of burned area extraction technology. The method includes the following steps: S1, preprocessing SLC data of single-view complex image; S2, based on the SLC data set before and after fire, obtaining a data set that can reflect the changes of backscattering intensity features, polarization decomposition features and texture features; S3, extracting burned areas based on various types of feature change parameters in S2; S4, evaluating the accuracy of polarization SAR extraction of burned areas. The invention adopts the above extraction method and uses SAR image as the data source to realize the accurate extraction of burned areas, which provides a strong reference value for post-disaster assessment and other research.

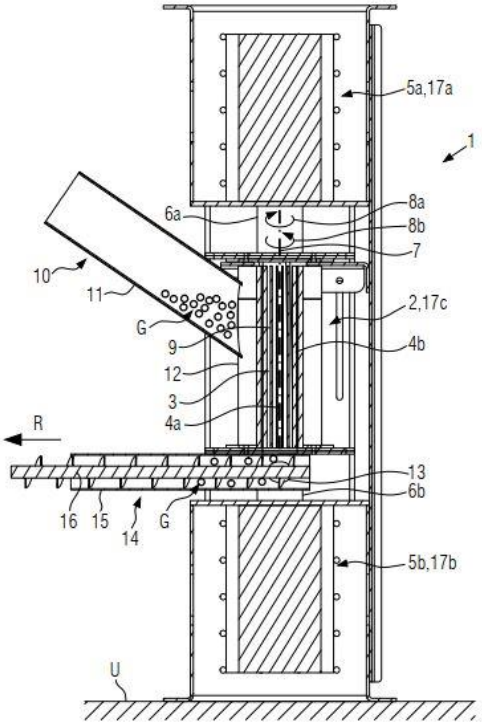


21: 2024/00046. 22: 2024/01/02. 43: 2024/07/04
51: E21D
71: CHINA UNIVERSITY OF MINING AND TECHNOLOGY, Yunlong Lake Laboratory of Deep Underground Science and Engineering, China Coal Tianjin Design Engineering Co., Ltd., Jinneng Holding Coal Industry Group Shuozhou Coal Power Co., Ltd., Huadian Coal Industry Group Co., Ltd.
72: MENG Bo, JIA Bangguo, JING Hongwen, LI Xiaozhao, SONG Gang, YIN Qian, LIU Dajiang, CHEN Wanhui, WANG Yingchao, HU Chengguo, YANG Runda, WANG Tao
54: ENERGY-ABSORBING ANCHOR CABLE FOR LARGE DEFORMATION RESISTANCE WITH ASSOCIATED CONSTRUCTION METHOD OF UNDERGROUND ENGINEERING
00: -
An energy-absorbing anchor cable resistant to large deformation and a construction method thereof are suitable for underground engineering, including an

anchor cable, where an energy-absorbing column is arranged at that tail end of the anchor cable, an anti-shear sleeve is arrange at the outer side of the energy-absorbing column through an anti-deflection device, so that the energy-absorbing column is axially arranged in the anti-shear sleeve, a ribbed tray is fixed at the tail end of the anti-shear sleeve, and a limit plate with a conical structure matched with the anchor cable is connected at the front end of the anti-shear sleeve through threads; the anti-shear sleeve is a hollow cylindrical tube, the front end of the energy-absorbing column is arranged against in the limit plate, the tail of the anti-shear sleeve is provided with an anti-impact baffle, and the inner side of the anti-impact baffle is provided with a rubber gasket; the energy-absorbing column consists of a plurality of deformable energy-absorbing tubes with different deformation starting pressures connected end to end. It can allow large deformation, is not easy to be damaged by shear, has good impact resistance effect, can adjust yield distance, and does not expose the cable body to occupy roadway space.

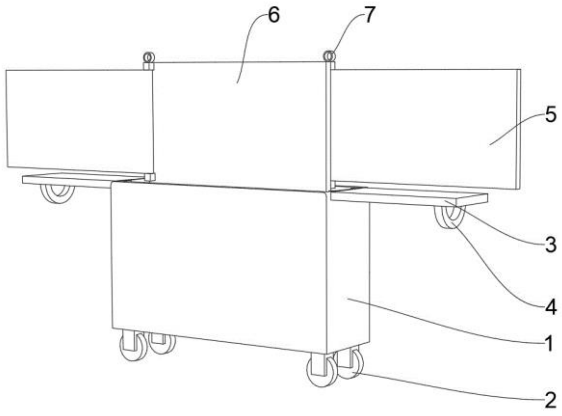


21: 2024/00047. 22: 2024/01/02. 43: 2024/07/04
51: A22C
71: EBERHARDT GMBH
72: EBERHARDT, Kevin
33: DE 31: 102023102322.5 32: 2023-01-31
54: APPARATUS AND METHOD FOR MECHANICAL MIXING OF MEAT PRODUCTS
00: -
The invention relates to an apparatus (1) with at least one tool (2) for producing protein breakdown on meat material (G), wherein the tool (2) forms a mixing chamber (3) for meat material (G), wherein the mixing chamber (3) has opposite chamber walls (4a, 4b) rotatable relative to each other for controlling forces exerted on meat material (G) therebetween. Furthermore, the invention relates to a method for producing protein breakdown on meat material (G).



21: 2024/00049. 22: 2024/01/02. 43: 2024/07/05
51: G09F
71: Henan University of Urban Construction
72: WANG Judong, GUO Xiaoran, DU Yabing, WANG Sijia, QIN Tianli, MU Xi, LIU Jian, WEN Haolin
54: GUIDANCE EQUIPMENT FOR COLLEGE STUDENTS' INNOVATION AND ENTREPRENEURSHIP
00: -
The invention belongs to the technical field of guidance equipment, in particular to guidance equipment for college students' innovation and entrepreneurship, which comprises a placing box, where the top opening of the placing box is arranged, a power mechanism is arranged in the placing box, the power mechanism is connected with a lifting mechanism in a transmission way, a display mechanism is arranged above the lifting mechanism, and the display mechanism is arranged corresponding to the top opening of the placing box; the display mechanism comprises a first display

plate fixedly connected to the lifting end of the lifting mechanism, two ends of the first display plate are respectively hinged with a second display plate, and the two second display plates are respectively located at two opposite sides of the first display plate, and a limiting mechanism is arranged between the second display plate and the first display plate. The display mechanism comprises a first display plate, and the two ends of the first display plate are respectively hinged with second display plates. When the first display plate moves to the outside of the placing box, the two second display plates are unfolded, thereby increasing the display area, so that multiple types of innovative guidance can be displayed, which is convenient for students of different innovative categories to learn guidance.

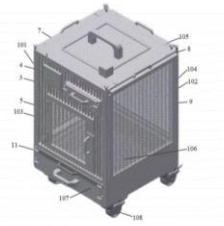


21: 2024/00050. 22: 2024/01/02. 43: 2024/07/05
51: A01K
71: Jishou University
72: LIAO, Jinping, LI, Jinmei, ZHANG, Gefei, LIU, Zhixiao

54: NOVEL DEVICE FOR ARTIFICIAL BREEDING OF CHIROPTERA

00: -

Disclosed is a novel device for artificial breeding of Chiroptera. The novel device includes a breeding cage and a foldable activity room, where the breeding cage includes a front plate, a rear plate, a left side plate, a right side plate, a top plate, a bottom plate, a feces tray and universal wheels. The front plate is provided with a food box window, a temperature and humidity measurement instrument, a camera and a front door, an inner wall of the top plate is of an uneven rock-like structure, and an outer wall of the top plate is provided with an automatic water pumping device and connecting assemblies. The side plates of the breeding cage are drawn out from sliding rails to be in communication with the activity room or another breeding cage, and a single breeding cage can be combined by means of the top connecting assemblies.

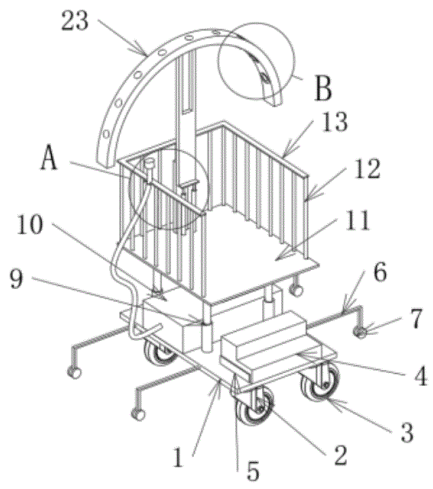


21: 2024/00052. 22: 2024/01/02. 43: 2024/07/05
51: E21D
71: State Energy Group Ningxia Coal Industry Co., Ltd. Shicao Village Coal Mine, North China Institute of Science and Technology
72: Wei Qiming, Wang Hu, Yang Zongquan, Hu Yajun, Zhang Hailong, Liu Yude, Guo Jingzhong, Yang Yuanzhong

54: AN EFFECTIVE MINING TUNNEL APPARATUS RESISTANT TO MINING PRESSURE AND ROCK STRATA CONTROL

00: -

This invention presents an effective mining tunnel apparatus resistant to mining pressure and rock strata control. The device features a lower support base with sliding grooves on its side surface. The upper surface of the lower support base is fixedly connected with steps, and within these steps, there's a fixed connection for a battery. Additionally, the upper surface of the lower support base is connected with a first electric telescopic rod. This apparatus effectively resists mining pressure and controls rock strata by employing an arched support rod that allows the device to directly support the interior of the tunnel during use. Once supported, it can further reinforce the reinforcement bars with a second electromagnet through a through-hole, completing a unified installation. Moreover, the up and down movement facilitated by the steps and the first electric telescopic rod enables personnel to stand and use the material spraying nozzle for spraying materials conveniently.

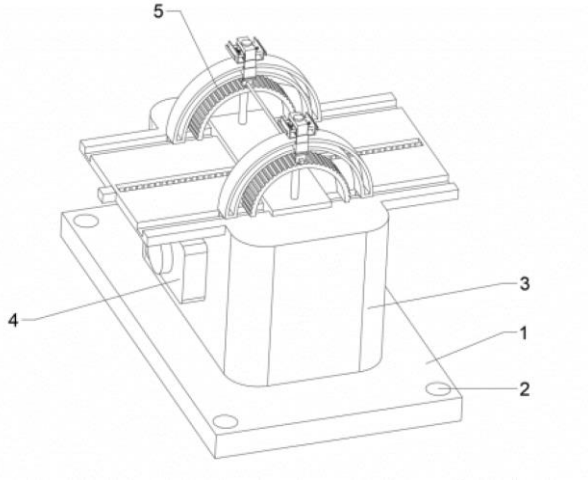


21: 2024/00053. 22: 2024/01/02. 43: 2024/07/05
51: G01B
71: State Energy Group Ningxia Coal Industry Co., Ltd. Shicao Village Coal Mine, North China Institute of Science and Technology
72: Wei Qiming, Wang Hu, Yang Zongquan, Hu Yajun, Zhang Hailong, Liu Yude, Guo Jingzhong, Yang Yuanzhong

54: AN OBSERVATION DEVICE AND METHOD FOR MEASURING THE ABSOLUTE CONVERGENCE OF A TUNNEL'S SURFACE

00: -

This invention provides a device and method for observing the absolute convergence of a tunnel's surface, within the field of tunnel surrounding rock observation. The device for observing the absolute convergence of the tunnel's surface includes a mounting plate with a support platform fixed on its upper side. Laser rangefinders are fixed on both sides of the support platform, while an observation unit is arranged on its upper side. The mounting plate has installation holes, and the observation unit comprises a fixed plate connected to the upper side of the support platform, featuring a central sliding groove. By incorporating a set of components such as a fixed plate, limiting groove, screw, slider, semi-toothed ring, limit ring, sliding block, fixed frame one, fixed frame two, and a gear with laser rangefinder two, this setup facilitates the measurement of changes in distance from the top of curved and rectangular tunnels using laser rangefinder two. This enhances the versatility of the device for observing the absolute convergence of various tunnels.

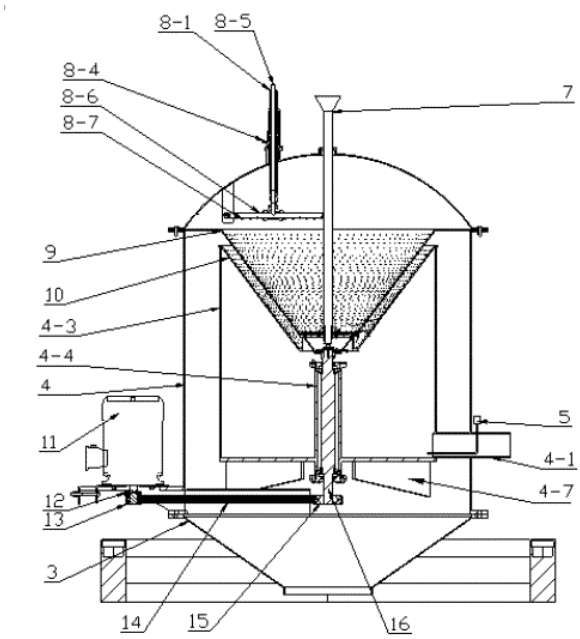


21: 2024/00054. 22: 2024/01/02. 43: 2024/07/05
51: C02F
71: Gansu Agricultural University
72: Xiaopeng HUANG, Lizeng PENG, Fangxin WAN, Guojun MA, Yanrui XU, Zepeng ZANG, Xiaoping YANG, Xiaobin MOU, Qi LUO

54: AN EFFICIENT SOLID-LIQUID SEPARATION DEVICE

00: -

The present invention discloses an efficient solid-liquid separation device, which belongs to the field of solid-liquid separation device, including a frame, an outer cylinder and a sealing cover, wherein the outer cylinder is arranged above the frame through a support spring, a solid discharge part is arranged at the bottom of the outer cylinder, the sealing cover is arranged at the top of the outer cylinder, the interior of the outer cylinder is fixedly connected with the inner cylinder through a fixed plate, the inner cylinder has the same axis as the outer cylinder, the bottom of the inner cylinder is a closed structure, and a liquid discharge part passing through the outer cylinder is arranged on the outside of the bottom of the inner cylinder. The present invention adopts the above-mentioned solid-liquid separation device, which uses the centrifugal force generated by the high-speed rotation of the relatively fixed outer screen and the inner screen to continuously separate the solid-liquid mixed mixture, the working process has no effect on the material physical characteristics of the material, and the production efficiency is high.

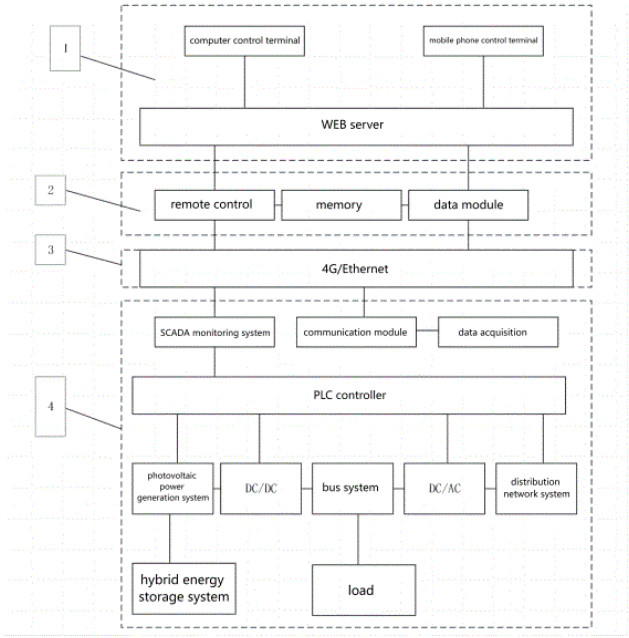


21: 2024/00055. 22: 2024/01/02. 43: 2024/07/05
51: C07D
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: LI Wei, LIU Zhiqing
54: ORGANIC PHOTOVOLTAIC MATERIAL BASED ON PERYLENE DIMIDE AND PREPARATION METHOD THEREOF
00: -

The invention relates to the technical field of photoelectric materials, and provides an organic photovoltaic material based on perylene dimide, including the following components: 45-60 parts of aromatic diketone, 45-60 parts of diamine, 20-40 parts of thiophene, 15-30 parts of dimethylamine, 15-30 parts of benzimidazolyl, 15-30 parts of cobalt salt, 0.1-10 parts of chain extension reagent, 15-30 parts of N-methylpyrrolidone, 5-10 parts of toluene and 5-10 parts of metallic sodium. It also includes a preparation method of the organic photovoltaic material based on perylene dimide, including: S1: synthesis of perylene dimide monomer: conducting condensation reaction under a condition of reaction of aromatic diketone and diamine; and S2: cobalt salt dissolution treatment: dissolving required cobalt salt in N-methylpyrrolidone. By introducing tertiary amino functional group, benzimidazolyl and cobalt salt, and adding chain extension reagent, it may effectively solve the defect that the absorption range of perylene dimide group is still limited due to the limitation of energy level structure and molecular orbital, and effectively improve the absorption range of light and the mobility of carriers.

21: 2024/00057. 22: 2024/01/02. 43: 2024/07/05
51: H02J
71: Jiamusi University
72: Jia MA
54: A PHOTOVOLTAIC MICROGRID CONTROL SYSTEM
00: -

The present invention discloses a photovoltaic microgrid control system, which belongs to the technical field of solar new energy applications. The system comprises a remote monitoring module, wherein the remote monitoring module is connected to a cloud platform module, the cloud platform module is connected to a data transmission module, and the data transmission module is connected to a field monitoring module. The present invention has a simple structure, reasonable design and obvious improvement in information level. The remote control of the photovoltaic microgrid control system is realized, which improves the safety and reliability of the organic integration of photovoltaic microgrid and power grid, gives full play to the characteristics of the two, prolongs the life of the battery, improves the efficiency of photovoltaic conversion, and has strong practicability. The present invention can make full use of the various advantages of the Internet of Things, remotely establish an information database of operating conditions and operating conditions closely related to the photovoltaic microgrid control system, realize remote and intelligent control of the photovoltaic microgrid control system, greatly improve the level of system maintenance management intervention, improve mobility and initiative, and further improve the effect of energy saving and consumption reduction.

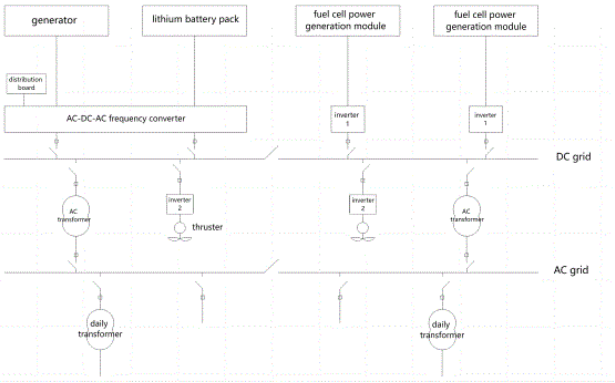


21: 2024/00058. 22: 2024/01/02. 43: 2024/07/05
51: B63J
71: Jiamusi University
72: Jia MA

54: A POWER SUPPLY SYSTEM AND CONTROL METHOD FOR A SHIP

00: -

The present invention provides a power supply system and control method for a ship, which relates to the technology field of power distribution. The ship power supply system includes a generator and a lithium battery pack, and the ship power system includes at least one group of thrusters, each group of thrusters is connected to the DC grid through an inverter; at least one group of fuel cell power generation module, the fuel cell power generation modules is electrically connected with the DC grid. The method includes incorporating the lithium battery pack into the DC grid; incorporating the fuel cell power generation module into the DC grid; determining whether or not the fuel cell power generation module is faulty, and if so, the generator is started to supply power. The present invention provides a power supply system and control method for a ship. Through the matching of various power sources, the DC grid can provide electric energy to the ship power system, which is helpful in solving the technical problem of the lack of a ship hybrid power system in the existing technology and the use of hydrogen energy to realize the power supply of the ship power system.



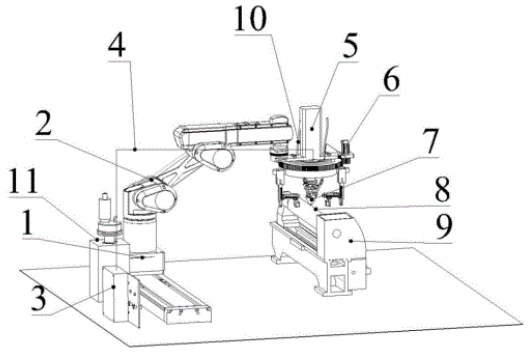
21: 2024/00059. 22: 2024/01/02. 43: 2024/07/05
51: C23C
71: University of Science and Technology Liaoning
72: Chang LI, Han SUN, Yichang SUN, Menghui YU, Fenghua LUO, Xing HAN

54: LASER CLADDING TECHNIQUE AND DEVICE WITH PULSE INTERMITTENT POWDER FEEDING AND MULTI-DIMENSIONAL ALTERNATING MAGNETIC FIELD AUXILIARY FUNCTIONS

00: -

The purpose of the invention is to provide a laser cladding technique and device with pulse intermittent powder feeding and multi-dimensional alternating magnetic field auxiliary functions, the whole device is composed of a laser cladding system, an alternating magnetic field auxiliary system, a pulse intermittent powder feeder and a central control system. In the process of laser cladding, the integrated device is used to drive the hanging opposite core magnetic pole to rotate through gear transmission. By adjusting the screws arranged vertically and horizontally, the control of the rotation and lifting of the hanging opposite core magnetic pole of the suspension is realized, so as to realize the multi-dimensional magnetic stirring of the molten pool. The grain of the cladding layer is refined, the microhardness of the cladding layer is improved, the bubbles in the molten pool are effectively reduced, and the quality of the cladding layer and the surface performance of parts are improved. Meanwhile, through the innovative design of the turntable structure with periodic grooves and the powder bin structure with a super-smooth wall surface, the powder bin will not cause wall sticking or powder residue due to the cladding of the ultra-fine powder. At the same time, it can realize the pulse intermittent powder feeding to the molten pool, and apply periodic pulse vibration effect to the molten pool,

which can effectively improve the quality of the cladding layer, prevent segregation, enhance solidification uniformity, reduce porosity, and improve corrosion resistance. It provides an innovative idea for the overall optimization of the laser cladding process.

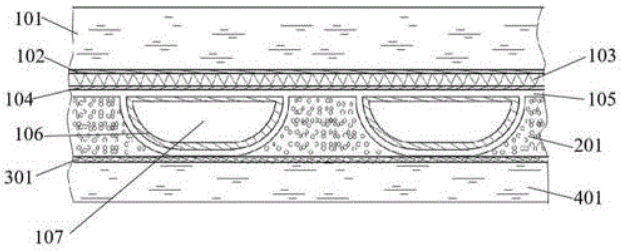


21: 2024/00060. 22: 2024/01/02. 43: 2024/07/05
51: H02S
71: Henan University of Urban Construction
72: LI Qingxiao, ZHANG Xinhui, LIU Shijie, XU Kaidong, WANG Chaoyong, WANG Jina, ZHAO Yiming, LIN Binna, ZHAO Wenbo, YANG Tong, CHEN Xueyi

54: CADMIUM TELLURIDE PHOTOVOLTAIC PHOTOTHERMAL COMPONENT WITH HIGH HEAT DISSIPATION PERFORMANCE AND PREPARATION METHOD THEREOF

00: -

The invention discloses a cadmium telluride photovoltaic photothermal component with high heat dissipation performance and a preparation method thereof. the front electrode layer, the light absorbing layer, the metal back electrode layer and the heat-conducting insulating layer of the cadmium telluride battery are sequentially deposited on the glass substrate, the metal back electrode layer is bonded with the positive and negative lead terminals; the positive and negative lead terminals lead out the electrical energy generated when the components work, and are exported through the junction box for electrical connection with the outside world; the capillary tubes are arranged on the heat-conducting insulating layer; the heat-conducting insulating layer is deposited outside the capillary tubes; the heat generated when the component works is transferred to the capillary tubes through the heat-conducting insulating layer; and the cooling working medium flowing in the capillary tubes absorbs the heat, collects it in the conduit and transmits it to the waste heat utilization client through the conduit. The cadmium telluride battery panel disclosed by the invention not only can maintain the power generation and output power of the original cadmium telluride battery panel, but also is durable, and does not need maintenance in the whole life cycle of the component, and simplifies the component structure, greatly reduces the quality of the component, has good aesthetics and is beneficial to popularization and application.



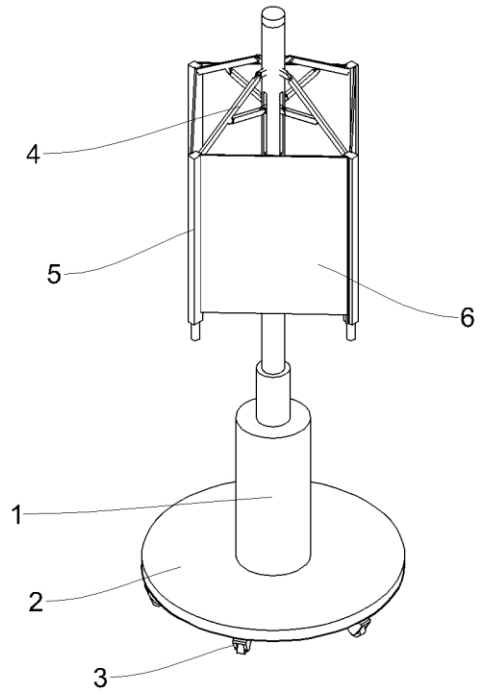
21: 2024/00061. 22: 2024/01/02. 43: 2024/07/05
51: A47F
71: Henan University of Urban Construction
72: WANG Judong, GUO Xiaoran, GAO Mingyang, JIANG Shengli, LI Jiaxin, ZHANG Wei, LIU Hongyu, XIONG Huidan, LI Menghui

54: DISPLAY DEVICE FOR INNOVATION AND ENTREPRENEURSHIP OF COLLEGE STUDENTS AND USING METHOD THEREOF

00: -

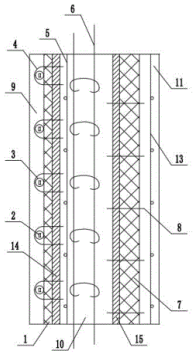
The invention belongs to the technical field of display device, in particular to a display device for innovation and entrepreneurship of college students and a using method thereof. The structure comprises a pillar, wherein the bottom end of the pillar is pivotally connected with a chassis; the upper part of the pillar is provided with an unfolding and accommodating structure; the periphery of the unfolding and accommodating structure is rotatably connected with a plurality of display cloth box structures; display cloth is wound inside the display cloth box structure; one end of the display cloth extends out of the display cloth box structure; and one end of the display cloth extending out of the display cloth box structure is detachably connected with the side surface of another adjacent display cloth box structure. Using these structures, a display device for innovation and entrepreneurship of college students is realized, which can quickly and conveniently display the contents that need to be

displayed, and can be quickly stored when they are not needed, reducing the floor space.



21: 2024/00062. 22: 2024/01/02. 43: 2024/07/05
51: A01G
71: Institute of Crop Sciences, Chinese Academy of Agricultural Sciences
72: QIU, Lijuan, GUAN, Rongxia, LIU, Xinyue
54: IDENTIFICATION METHOD FOR SALT TOLERANCE OF SOYBEANS AT GERMINATION STAGE
00: -
Disclosed is an identification method for salt tolerance of soybeans at a germination stage. The identification method is to treat soybean planting materials with NaCl, and measure a germination rate and radicle lengths of the soybeans, so as to establish an identification index and an evaluation method for the salt tolerance of the soybeans at the germination stage. Results show that the germination rate and radicle lengths of the soybeans are reduced under salt stress compared with a control. Difference analysis is carried out on relative radicle lengths. Different varieties have no significant difference in relative radicle length after being treated with salt for 2 d, but have significant differences in relative radicle length after being treated with salt for 3 d. The relative radicle length after 3 d is used as an evaluation index such that salt tolerance in the germination stage can be accurately identified.

21: 2024/00063. 22: 2024/01/02. 43: 2024/07/05
51: E04C
71: Shenyang Jianzhu University
72: LIU, Lin
54: PREFABRICATED NON-COMBINED SANDWICH ELECTRIC HEATING HEAT PRESERVATION WALLBOARD
00: -
The present invention discloses a prefabricated non-combined sandwich electric heating heat preservation wallboard in the technical field of building components, including an inner leaf wallboard, a first heat preservation board, a first sound insulation board, a middle leaf wallboard, a second sound insulation board, a second heat preservation board, and an outer leaf wallboard arranged in sequence. A heating layer is arranged between the inner leaf wallboard and the first heat preservation board. By adding the heating layer in the wall body, the prefabricated wallboard integrates heating, heat preservation, thermal insulation, fire prevention, anti-aging, and sound insulation, to solve the problem of a heating facility occupying an indoor space; the heating facility does not affect the indoor decoration, the heating comfort is good, and the heating time and temperature are conveniently controlled.

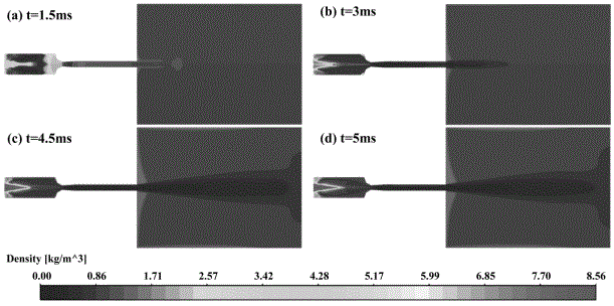


21: 2024/00064. 22: 2024/01/02. 43: 2024/07/05
51: B05B
71: University of Science and Technology Liaoning
72: Chang LI, Siyu LI, Lei FENG, Han SUN, Pengfei LIU, Xing HAN
54: NUMERICAL SIMULATION METHOD FOR INSTANTANEOUS EVOLUTION OF HVOF THERMAL SPRAYING COMBUSTION FLAME

FLOW OF LIQUID FUEL BASED ON EULER-LAGRANGE

00: -

The invention discloses a numerical simulation method for instantaneous evolution of HVOF thermal spraying combustion flame flow of liquid fuel based on Euler-Lagrange, which is carried out according to the following steps. Firstly, a geometric model of the spray gun and air domain is built by a pre-processing software, and the grid is divided to establish the calculation area. Secondly, the calculation domain is set as a whole, and the particle phase model is coupled with the gas phase model to solve the particle flight behavior. The material properties and boundary conditions are set, and then the solution method, monitoring variables, convergence criteria and relaxation factors are set. The Fluent software is used to iteratively calculate the discretization control equation of the calculation area until the convergence calculation is completed, and ultimately, the post-processing software is used to extract the calculation results. Based on the computational fluid dynamics method, a theoretical model of the spraying process is built, which can repeatedly change the parameter of the spraying process, quantitatively reveal its influence on the spraying, further find out the potential momentum and heat transfer mechanism, and optimize and upgrade the thermal spraying system.



21: 2024/00066. 22: 2024/01/02. 43: 2024/07/05
51: C12N
71: Northwest Institute of Plateau Biology, Chinese Academy of Sciences, Qinghai University
72: WANG, Handong, SHEN, Yuhu, LI, Xin, WANG, Lei, XU, Jinqing

54: IDENTIFICATION METHOD FOR QINGKE PLANT HEIGHT TRAITS

00: -

The present invention provides an identification method for Qingke plant height traits and a KASP molecular marker PH_K02 closely linked to major effect QTL of Qingke plant height; position 225 of PH_K02, namely, position 464680174 of the full-length sequence of chromosome 3 of Qingke, has an A/G mutation, which shows that the mutation site G is closely linked to the dwarf traits, and A is closely linked to the tall culm trait. The identification method can be used to screen dwarf traits of Qingke using the marker and could achieve high-throughput rapid identification of Qingke plant height types at seedling stage, which provide effective technical support for breeding varieties with ideal plant type structure of Qingke and has important application value.

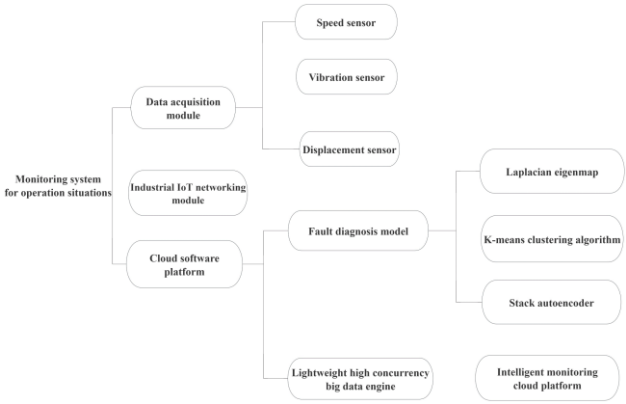
21: 2024/00067. 22: 2024/01/02. 43: 2024/07/05
51: G01K
71: Xinyu University
72: Yu Longhai, Chen Shuping, Liu Hesheng, Song Xinwen, Yang Guojun, Wu Shudong, Yuan Meiqin, Wang Haizhen, Li Sheng
33: CN 31: 202311211755.1 32: 2023-09-19

54: MONITORING SYSTEM FOR OPERATING SITUATIONS OF NON-STOP PIPELINE HOLE-OPENING MACHINE

00: -

Disclosed is a monitoring system for operating situations of a non-stop pipeline hole-opening machine, falling within the technical field of monitoring of operation of hole-opening machines. A data acquisition module, an industrial IoT networking module and a cloud software platform are included. The data acquisition module is used for acquiring operation data of a hole-opening machine in real time, the industrial IoT networking module transmits data of the data acquisition module to a cloud, and the cloud software platform includes a fault diagnosis model based on deep learning and a lightweight high concurrency big data engine. The

fault diagnosis model is used for diagnosing operating situations of a non-stop pipeline hole-opening machine, and the lightweight high concurrency big data engine combined with the cloud data establishes an intelligent monitoring cloud platform for the non-stop pipeline hole-opening machine to monitor the operation situation of the hole-opening machine in real time. According to the present invention, an accuracy and timeliness of fault diagnosis are improved, an operation efficiency and reliability of the non-stop pipeline hole-opening machine are improved by efficient real-time monitoring and a response mechanism and an excellent system integration capability.

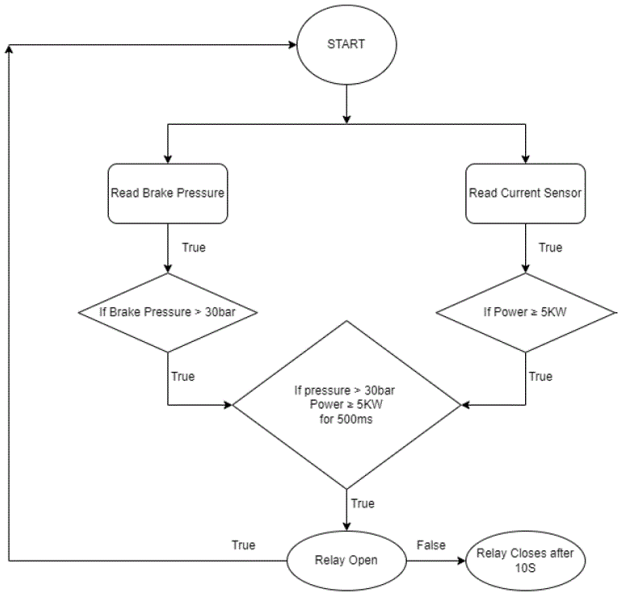


21: 2024/00068. 22: 2024/01/02. 43: 2024/07/05
51: B60L
71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, BONDAR, Shrihari Mahadeo, MAHESHWARI, Kunj, MALVIYA, Ayush, PAREKH, Vyom
72: BONDAR, Shrihari Mahadeo, MAHESHWARI, Kunj, MALVIYA, Ayush, PAREKH, Vyom

54: A BRAKE SYSTEM SAFETY DEVICE FOR ELECTRIC VEHICLES

00: -

The present inventionrelated to a brake system safety device for electric vehicles in case of throttle failure. A pedal box in EV is not like an ordinary pedal box with 3 pedals and spring-cable system. The throttle pedal and brake pedal both need to incorporate sensors, which hold specific functionality. One such subsystems is Brake System Plausibility Device (BSPD), which actuates the shutdown circuit in case of an implausibility. The reason behind this is to prevent a potentially dangerous situation for the passengers when the driver presses the accelerator pedal and it gets stuck mechanically in an actuated state. Moreover, the driver often slams on the brakes as a reaction move. As a result, the vehicle may lose control and result in a collision. So, under such circumstances, it is better to shut off the car if both pedals are pressed simultaneously.



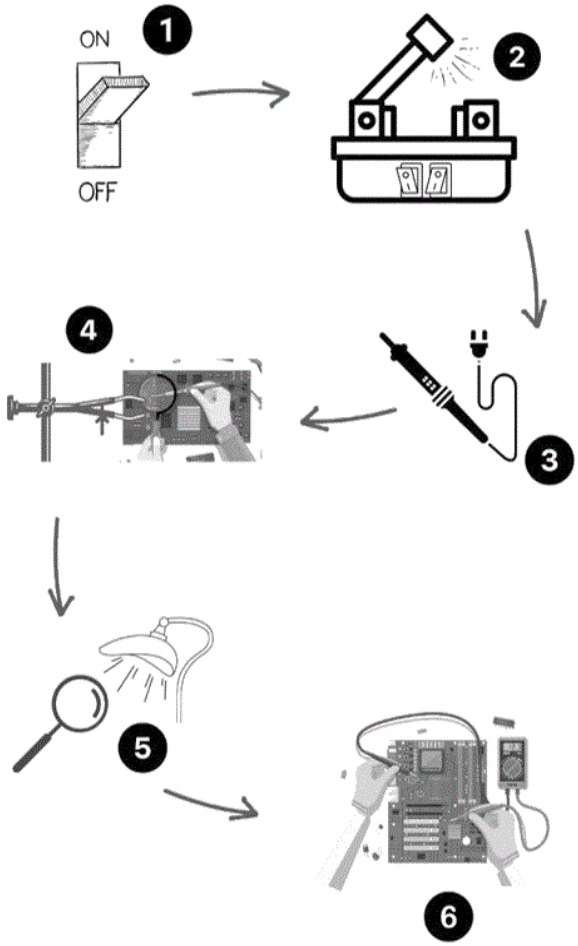
21: 2024/00069. 22: 2024/01/02. 43: 2024/07/05
51: B23K
71: DR. VISHWANATH KARAD MIT WORLD PEACE UNIVERSITY, NATH, Deepa Soumik, JAIN, Ronit Manish, LENKA, Arpita Manoj
72: NATH, Deepa Soumik, JAIN, Ronit Manish, LENKA, Arpita Manoj

54: AN AUTOMATED SOLDERING STAND ASSISTS USER IN HIGH FIDELITY SOLDERING

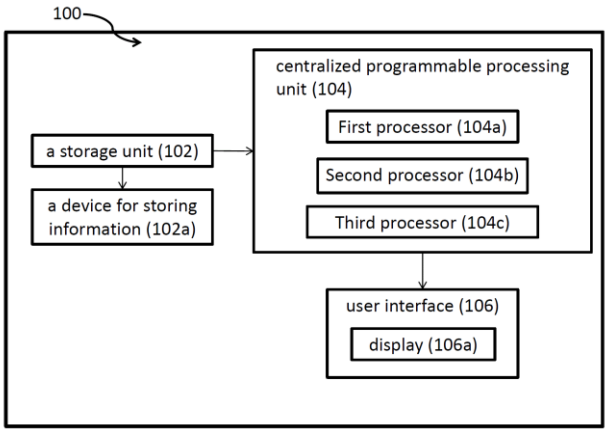
00: -

The present invention relates to an automated soldering stand assists the user in high fidelity soldering. The present invention is an automated soldering stand that allows you to perform high precision soldering with least manual effort. This involves a stationary arm and a movable arm mounted with rotating clamps and clips to hold the circuit board in place. The movable arm can be adjusted according to the board's length or width using a combination of motor switch mechanism. Mounted on the movable arm is a clip holder and flexi-rod light panel attachment that is free to move about its radial axis in both clockwise and counter clockwise direction using motors and switch programmed to a specific angular displacement. The

fixed arm of this device comes with a magnifying glass and a clip holder which moves about its joint according to its automated counterpart, thereby providing good grip and optimum angle to the board to be soldered. The platform holding the entire structure also comes with a solder iron stand which keeps the hot bit of the solder rod fixed in place to avoid any mishaps during the course of its operation. This arrangement provides the user precise lateral and radial displacement control to achieve the most appropriate angle for meticulous and minute soldering.

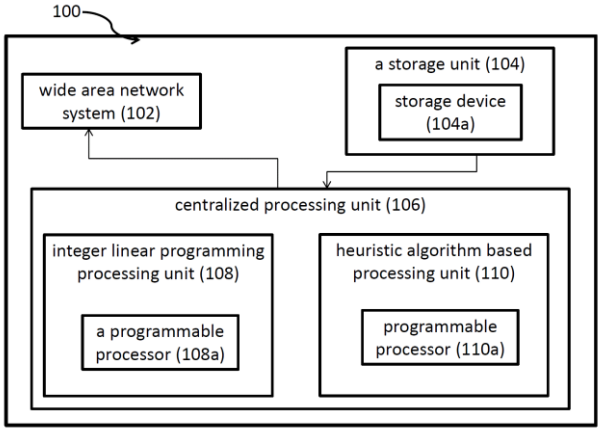


21: 2024/00070. 22: 2024/01/02. 43: 2024/07/05
51: H04B
71: PANTHA KANTI NATH
72: PANTHA KANTI NATH
54: A REGENERATOR SITE SELECTION SYSTEM IN OPTICAL NETWORKS
00: -
The present invention relates to a regenerator site selection system in optical network. This invention presents a solution for regenerator site selection in uncertain traffic scenarios in flexible optical networks. It considers diverse factors such as regeneration demand, cost constraints, and optical reachability. A hybrid approach combines topological data for demand prediction with traffic-based strategies for placement decisions. The problem formulation includes node-specific constraints and flexible network configurations. It accommodates signals with varying modulation levels and manages traffic uncertainty through a hose traffic model. The paper provides mathematical formulations, proves NP-completeness, and offers a range of algorithms. These algorithms cater to different aspects of the problem, providing flexibility in solving it. Experimental results confirm the effectiveness of the proposed methods, making this model a valuable tool for decision-making in dynamic optical networks with mixed-signal provisioning.

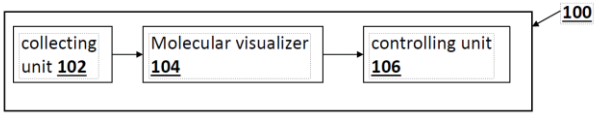


21: 2024/00071. 22: 2024/01/02. 43: 2024/07/05
51: H04J
71: PANTHA KANTI NATH
72: PANTHA KANTI NATH
54: A LIGHTPATH ROUTING AND WAVELENGTH ASSIGNMENT SYSTEM FOR TRANSLUCENT OPTICAL NETWORKS
00: -
The present disclosure relates to a lightpath routing and wavelength assignment system for translucent optical networks. The presented invention tackles the static RWA (Routing and Wavelength Assignment) problem in translucent optical networks with the primary objective of minimizing lightpath blocking under low resource availability scenarios. This invention offers a comprehensive solution, including precise Integer Linear Programming (ILP)

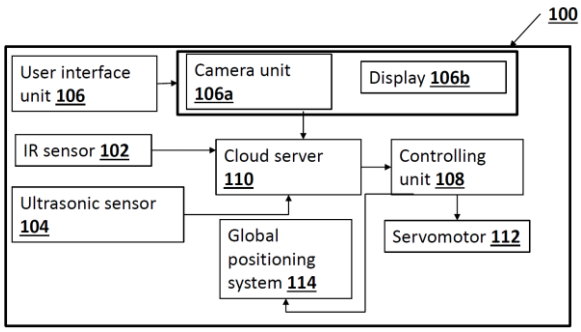
formulations such as link-chain and path-based models that excel in small network instances. Moreover, the invention extends to scenarios with ample resources, providing efficient ILP formulations. For large network problems with high lightpath demands, a novel heuristic approach is introduced, which incorporates randomness into lightpath route selection, guided by the Stochastic User Equilibrium (SUE) theory commonly used in transportation networks. Numerical results demonstrate that the proposed heuristic reduces the number of regenerators and wavelengths required to satisfy a given demand.



21: 2024/00072. 22: 2024/01/02. 43: 2024/07/05
51: A61K
71: PUGAZHENTHAN THANGARAJU, PRAKASH SRINIVASAN TIMIRI SHANMUGAM, SREE SUDHA TANGUTURI YELLA, MEENALOTCHINI GURUNTHALINGAM, KOTA SESHA BRAHMA SREE KRISHNA SASANKA, VIJAYAKUMAR ARUMUGAM RAMAMURTHY, ELAVARASAN KANDASAMY, SAJITHA VENKATESAN, ESWARAN THANGARAJU, TAMILSELVAN THANGARAJU
72: PUGAZHENTHAN THANGARAJU, PRAKASH SRINIVASAN TIMIRI SHANMUGAM, SREE SUDHA TANGUTURI YELLA, MEENALOTCHINI GURUNTHALINGAM, KOTA SESHA BRAHMA SREE KRISHNA SASANKA, VIJAYAKUMAR ARUMUGAM RAMAMURTHY, ELAVARASAN KANDASAMY, SAJITHA VENKATESAN, ESWARAN THANGARAJU, TAMILSELVAN THANGARAJU
54: SYSTEM AND METHOD FOR EVALUATING ANTILEPROTIC ACTIVITIES BY DRUG REPURPOSING AND CHEMOTHERAPY WITH DRUG RESCUED MOLECULES
00: -
A system (100) and method (200) for evaluating antileprotic activities by drug repurposing and chemotherapy with drug rescued molecules, comprises of: a collecting unit (102) for taking crystal structure of a pharmaceutical antileprotic drug molecule; a molecular visualizer (104) to load the molecule for analyzing energy associated with the crystal structure; and a controlling unit (106) for minimizing the energy to obtain stable local minima, wherein a binding activity of the crystal structure is analyzed by combination of chemotherapy with the drug molecule to dock the molecules.



21: 2024/00073. 22: 2024/01/02. 43: 2024/07/05
51: G08G
71: Rohit Kumar Kasera, Tapodhir Acharjee, Sudipta Roy, Arnab Paul
72: Rohit Kumar Kasera, Tapodhir Acharjee, Sudipta Roy, Arnab Paul
54: PARKING SLOT OCCUPANCY PREDICTION SYSTEM
00: -
A parking slot occupancy prediction system (100), comprising: an infrared (IR) sensor (102) embedded at each of a plurality of slot of a parking area for identifying occupancy of the parking slot; an ultrasonic sensor (104) embedded at an entrance and an exit of the parking area to detect at least a vehicle; a user interface unit (106) installed at an entrance and exit of the parking area for taking details of the driver and the vehicle entering and exiting the parking area for successful registration; and a controlling unit (108) for calculating a parking occupancy percentage for the parking area based on a modified convolutional neural network (CNN) technique, wherein a control signal is generated by the controlling unit (108) to activate opening and closing of an entrance and exit gate to control an entry and exit of the vehicle respectively at the parking area.

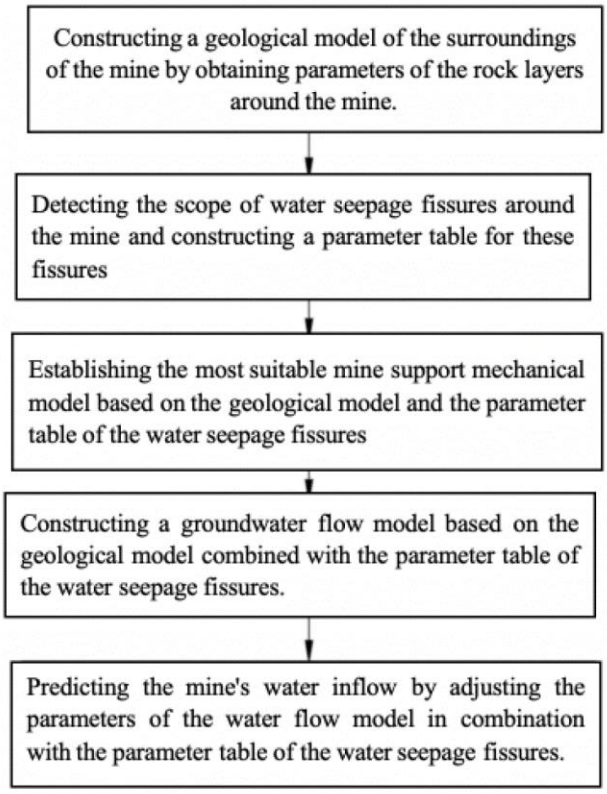


21: 2024/00074. 22: 2024/01/02. 43: 2024/07/05
51: G06F
71: Shaanxi Xunyi Qinggangping mining Co., LTD, North China Institute of Science and Technology
72: Niu Yongshou, Wang Jing, Cui Yuping, Tang Ruishan, Chen Yinde, Sun Dayong, Gao Bingqiang, Zhang Haiwei, Wu Jing, Zhang Lixin, Liu Jun, Guo Jingzhong, Liu Yude, Yang Yuanzhong
33: CN 31: 202310593317X 32: 2023-05-24

54: A DYNAMIC PREDICTION METHOD AND DEVICE FOR MINE WATER INFLOW

00: -

This invention provides a dynamic prediction method and device for mine water inflow, which relates to the field of mine water inflow prediction technology. The dynamic prediction method and device for mine water inflow include the following steps: S1: Construct a geological model of the mine surroundings by obtaining parameters of the rock layers around the mine. S2: Determine the scope of water seepage fissures around the mine and establish a parameter table for these fissures. S3: Establish the most suitable mine support mechanical model based on the geological model and the parameter table of the water seepage fissures. S4: Construct a groundwater flow model based on the geological model combined with the parameter table of the water seepage fissures. S5: Predict the mine's water inflow by adjusting the parameters of the water flow model in combination with the parameter table of the water seepage fissures. By establishing a geological model and detecting the scope of water seepage fissures around the mine while constructing a parameter table for these fissures, it's possible to effectively predict the mine's water inflow based on the depth of groundwater and the range of water seepage fissures. This approach facilitates an improved accuracy in predicting the mine's water inflow.



21: 2024/00075. 22: 2024/01/02. 43: 2024/07/05
51: A01N; A61K
71: Maolin DENG
72: Maolin DENG

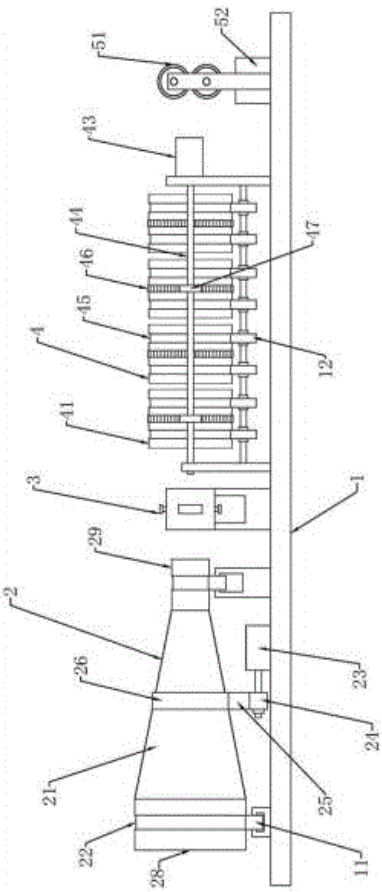
54: STERILIZING AND MOSQUITO-KILLING SMOKE TABLET COMBINING MUGWORT POWDER AND LAVENDER POWDER

00: -

The present invention provides a mosquito-killing smoke tablet with mugwort powder as a base material, and belongs to the technical field of manufacturing smoked mosquito-killing products. The mosquito-killing smoke tablet is prepared from the raw materials in percentage by weight: 1.8% of tetramethrin, 25% of mugwort powder, 5% of lavender powder, 45% of clay powder, 13% of potassium chlorate, 10% of ammonium sulfate and 0.2% of essence. The present invention uses clay powder as a bonding forming raw material, mugwort powder as a combustion base material, lavender powder as an auxiliary material and other drugs for repelling and killing mosquitoes and flies, so that the mosquitoes can be effectively repelled and killed for a long time. The lavender powder is rich in aromatic hydrocarbons, and can be combined with mugwort powder to achieve good disinfection and sterilization

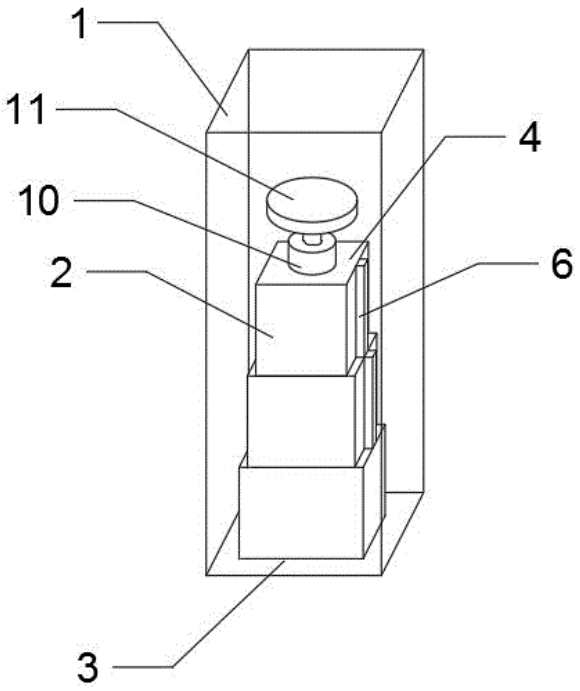
effects. In addition, the mugwort powder is used as a combustion base material instead of wood powder, so that a large amount of wood resources are saved, and the cost of raw materials of the mosquito-killing smoke tablet is reduced; meanwhile, the mugwort is Compositae plant that is low in planting cost and very good in planting performance, and farmers can be encouraged to plant the mugwort to increase income.

21: 2024/00076. 22: 2024/01/02. 43: 2024/07/05
51: F26B
71: Jiaxing Vocational & Technical College
72: ZHOU Fen
54: DEWATERING DEVICE FOR TEXTILE FABRICS
00: -
The invention disclose a dewatering device for textile fabrics, which comprise a base, a gathering assembly, a squeezing assembly, a wringing assembly and a pulling assembly, where the gathering assembly comprises a gathering cylinder and a first driving assembly which drive the gathering cylinder to rotate, the gathering cylinder has a conical structure, and an eccentric gathering ring is fixed on the inner wall of the gathering cylinder; the squeezing assembly is arranged at the outlet end of the gathering cylinder and comprises a squeezing ring, and the inner wall of the squeezing ring is provided with a plurality of squeezing blocks; the wringing assembly comprises a plurality of rotating cylinders arranged in parallel and a second driving assembly for driving the rotating cylinders to rotate, where an eccentric wringing ring is arranged in each rotating cylinder, and the rotating directions of two adjacent rotating cylinders are opposite; the pulling assembly comprises two pulling rollers which rotate oppositely. According to the invention, the fabric is gathered by using the gathering assembly, and the fabric is squeezed by using the wringing rings with different rotating speeds, so that the fabric can be quickly dewatered, and thus efficient dewatering can be realized.



21: 2024/00077. 22: 2024/01/02. 43: 2024/07/05
51: A47F
71: Hunan City University
72: ZHANG Qinghua
54: DEVICE FOR DISPLAYING AND PRESERVING INTANGIBLE CULTURAL HERITAGE
00: -
The invention discloses a device for displaying and preserving intangible cultural heritage, which relates to the field of display and exhibition devices, and comprises a glass cabinet, wherein a lifting platform is located in the glass cabinet and comprises a plurality of lifting boxes, and the lifting boxes are sequentially nested from outside to inside, and adjacent lifting boxes are connected in a sliding way in the vertical direction; a limiting piece is arranged at the sliding connection of the adjacent lifting boxes to limit the separation of the adjacent lifting boxes in the vertical direction; a cylinder is arranged in the innermost lifting box, and its shell is fixedly connected with the bottom surface, and its output end extends upward and is fixedly connected with the top surface. The lifting boxes which are nested in

turn from outside to inside and are connected in a sliding way along the vertical direction are used as the bearing mechanism of the non-legacy exhibits, so that the adjustment of the exhibition height of the non-legacy exhibits can be realized; the rotating mechanism is arranged above the lifting boxes, and the display angle of the non-legacy exhibits can be adjusted by placing the non-legacy exhibits on the rotating mechanism, so that visitors can visit the non-legacy exhibits at the best angle or in all directions, and the impression can be improved.

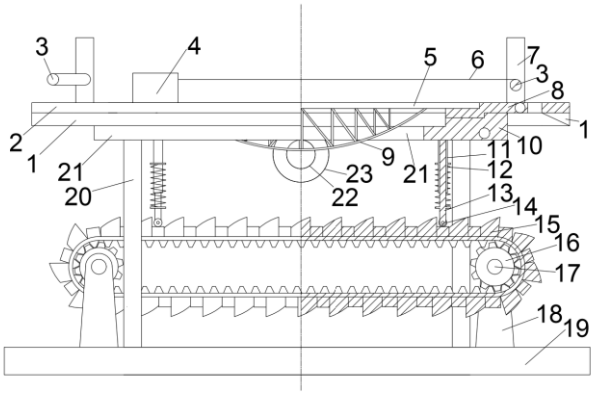


21: 2024/00078. 22: 2024/01/02. 43: 2024/07/05
51: G01M; G01N
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: GAO, Fashun, MU, Jingjing, LI, Yajie, ZHANG, Xiaoguo, HUA, Pei, ZHANG, Zilu

54: BRIDGE TRANSIENT VIBRATION TESTING DEVICE

00: -

Provided is a bridge transient vibration testing device, including a bridge model, a first supporting assembly, a second supporting assembly, a connecting rod, a vibration mechanism, and a base plate, where the bridge model is in lap joint with the first supporting assembly, where the first supporting assembly is arranged at the top end of the second supporting assembly, the bottom end of the second supporting assembly is connected to the vibration mechanism, the vibration mechanism is fixed on the base plate, and the second supporting assembly is connected to the base plate through the connecting rod, such that the vibration mechanism is capable of realizing transient lifting and lowering vibration, thereby improving the vibration effect.



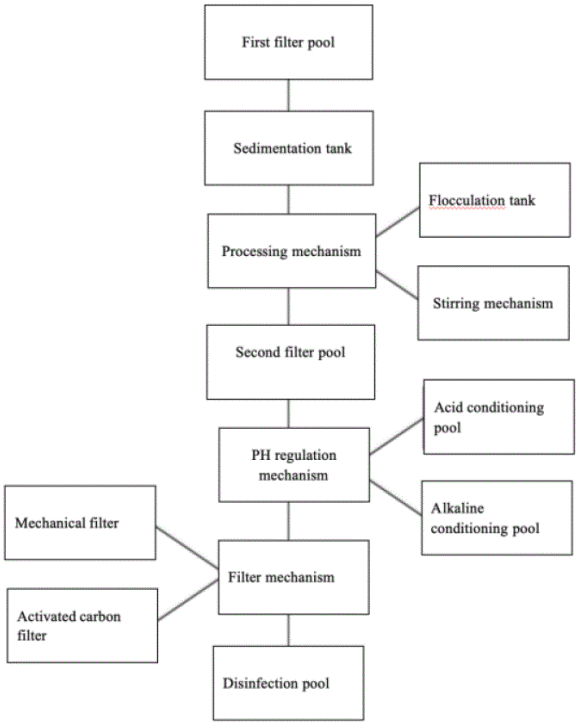
21: 2024/00079. 22: 2024/01/02. 43: 2024/07/05
51: C02F
71: Shaanxi Xunyi Qinggangping mining Co., LTD, North China Institute of Science and Technology
72: Cui Yuping, Chen Yinde, Wu Jing, Niu Yongshou, Zhang Lixin, Shi Kangfu, Liu Jun, Guo Jingzhong, Liu Yude, Yang Yuanzhong, Chen Xinhong, Luo Cheng
33: CN 31: 202310607615X 32: 2023-05-24

54: A MINE WATER INFLOW TREATMENT SYSTEM AND ITS METHOD OF USE

00: -

This invention presents a mine water inrush treatment system and its method of use, within the field of wastewater treatment technology. The mine water inrush treatment system comprises sequentially connected components: a first filtration pool, sedimentation tank, treatment structure, second filtration pool, pH adjustment mechanism, filtration structure, and disinfection tank. The treatment structure includes a coagulation tank and an agitation mechanism, with the agitation mechanism consisting of a stirring motor, rotating shaft, and stirring rod, which is driven by the motor to rotate. The pH adjustment mechanism involves acidic and alkaline adjustment tanks along with a pH detector to measure the pH level of the inflowing water. Additionally, the filtration structure consists of

mechanical and activated carbon filters. This invention utilizes a pH detector to assess the acidity or alkalinity of the water inflow. Based on the readings, the water is directed into the corresponding acidic or alkaline adjustment tank to adjust its pH to a neutral level. Furthermore, the treated water is then channeled into the disinfection tank for disinfection, enhancing its safety for production and use.



21: 2024/00081. 22: 2024/01/02. 43: 2024/07/05
51: A01G; C12N
71: INSTITUTE OF TROPICAL FORESTRY, CHINESE ACADEMY OF FORESTRY
72: LI, Xiangyang, HU, Bing, ZENG, Bingshan, LU, Zhaohua

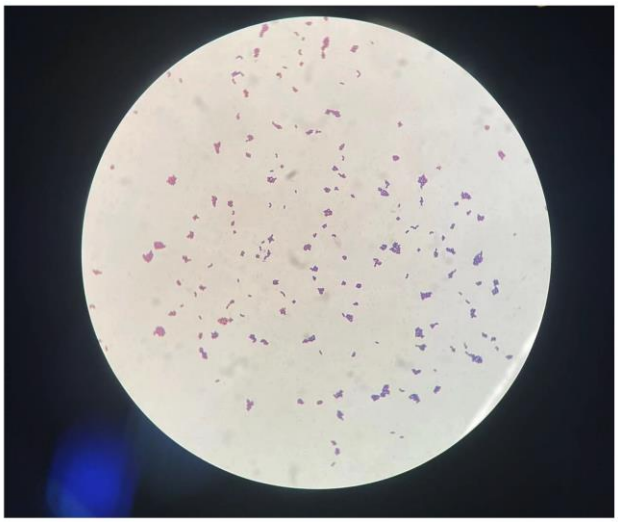
54: METHOD FOR VEGETATIVE PROPAGATION OF SUPERIOR PLANTS OF AQUILARIA SINENSIS OF QI-NAN GERMPLASMS

00: -

The present invention provides a method for vegetative propagation of superior plants of Aquilaria sinensis of Qi-Nan germplasms, and belongs to the technical field of plant tissue regeneration. The method includes the following steps: (1) selecting a branch of a superior mother plant of Aquilaria sinensis of a Qi-Nan germplasm; (2) girdling a middle-lower portion of the branch and air-drying it; after callus tissue is formed in an upper portion of a girdling wound formed thereafter, evenly applying, by means of a cotton swab, a certain amount of a rooting agent to a girdling area; (3) wrapping the girdling area with sterilized peat soil, and keeping the peat soil always in a moist state; and (4) performing fine management of a cloned seedling to obtain a superior strain of Aquilaria sinensis of the Qi-Nan germplasm. The method provided by the present invention is capable to obtain an offspring that fully inherits excellent traits of its mother plant, and to obtain a superior plant of Aquilaria sinensis of the Qi-Nan germplasm with a height of 60-100 cm and a success rate of up to 70% within about 90 d. The superior plant of Aquilaria sinensis of the Qi-Nan germplasm reaches a seedling standard for afforestation in the mountains, and features a high survival rate and fast growth.

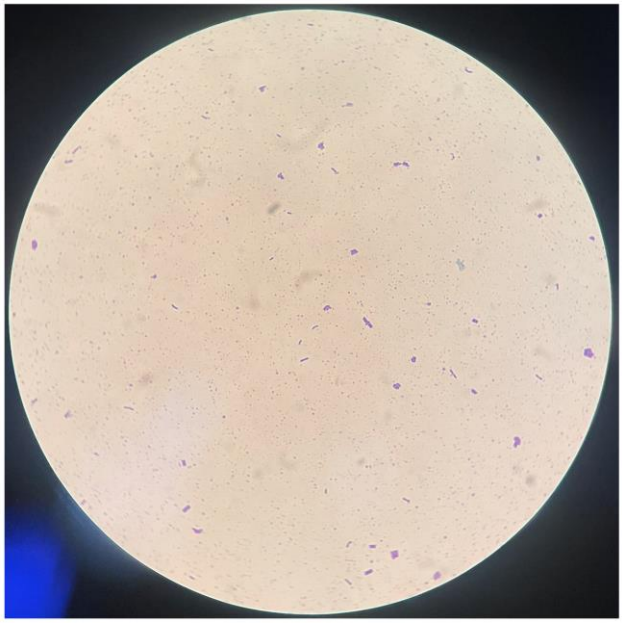
21: 2024/00082. 22: 2024/01/02. 43: 2024/07/05
51: C12N
71: Guizhou Normal University
72: LIU Jie, LIU Xing, FENG Rui, MING Dan, YI Yin
54: METHOD FOR OBTAINING RAPID PROPAGATION TISSUE CULTURE OF DENDROBIUM OFFICINALE
00: -
The invention provides a method for obtaining rapid propagation tissue culture of Dendrobium officinale, belonging to the technical field of plant tissue culture. The culture medium set comprises a callus culture medium, a budding tissue culture medium, a clustering tissue culture medium and a rooting tissue culture medium. The culture medium set of the invention can meet different culture requirements in the tissue culture process of Dendrobium officinale, and can achieve good culture effect. Through application, it is found that the callus of Dendrobium officinale cultivated by the callus culture medium of the invention grows well; the budding tissue of Dendrobium officinale obtained by adopting the budding tissue culture medium of the invention has a large total number of buds and a high proliferation coefficient; the Dendrobium officinale clustering tissue obtained by adopting the clustering tissue culture medium of the invention has many buds and good state; the rooting tissue of Dendrobium officinale obtained by adopting the rooting tissue culture medium of the invention has more buds and less browning plants.

21: 2024/00083. 22: 2024/01/02. 43: 2024/07/05
51: A61K; C12N; C12R
71: LANZHOU UNIVERSITY
72: HUANG, Xiaodan, ZHAO, Tingting, LI, Bin, PANG, Miao, SUN, Haiqing, ZHANG, Ying, LONG, Danfeng
33: CN 31: 2023111865767 32: 2023-09-14
54: AN ANTIOXIDANT HIGHLAND PEDIOCOCCUS PENTOSACEUS TYR-2, ITS CELL-FREE EXTRACT, AND APPLICATIONS
00: -
The invention provides Pediococcus pentosaceus TYR-2, an antioxidant highland pentose coccus, and its cell-free extract, belonging to the field of lactic acid bacteria (LAB) technology. Pediococcus pentosaceus TYR-2, preserved under the accession number CCTCC M 20231650, is deposited in the China Center for Type Culture Collection, Wuhan University, Wuhan, China, with a preservation date of September 8, 2023. Pediococcus pentosaceus TYR-2 provided by this invention, along with its cell-free extract, exhibits excellent DPPH radical scavenging activity and H2O2 tolerance, as well as significant reducing power and OH- ion scavenging capacity.



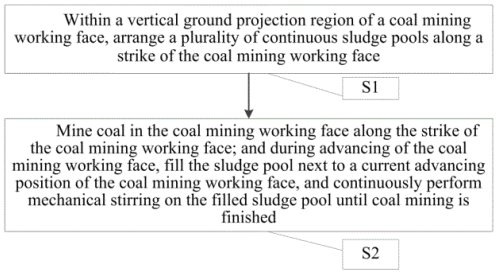
21: 2024/00084. 22: 2024/01/02. 43: 2024/07/05
51: A23L; C12N; C12P; C12R
71: LANZHOU UNIVERSITY
72: HUANG, Xiaodan, LIU, Wei, LI, Bin, XIN, Di, FENG, Yan
33: CN 31: 2023103010818 32: 2023-03-24
54: A NOVEL ANTIOXIDANT HIGHLAND LACTICASEIBACILLUS PARACASEI TDM-2 AND ITS CELL-FREE EXTRACT AND APPLICATIONS
00: -
This invention provides a novel antioxidant highland Lacticaseibacillus paracasei strain TDM-2, its cell-free extract, and applications thereof, belonging to the field of lactic acid bacteria (LAB) technology. The Lacticaseibacillus paracasei provided by the invention (Lacticaseibacillus paracasei) TDM-2, the strain was deposited in the China General Microbiological Culture Collection Center (CGMCC) with the following information: Address: No. 3, No. 1 Courtyard, West Beichen Road, Chaoyang District, Beijing, China; Deposit Date: February 20, 2023; Deposit Number: CGMCC NO.26579. The Lacticaseibacillus paracasei strain TDM-2 and its cell-free extract, as provided in this invention, exhibit a notable capacity for the DPPH radical scavenging rate and H2O2 tolerance, as well as displaying

significant reducing power and OH- ion scavenging ability.



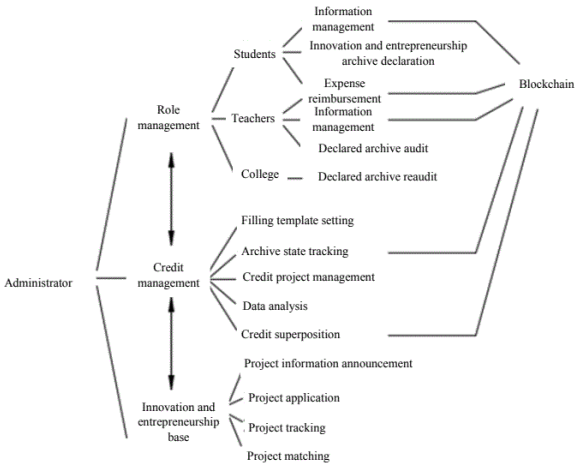
21: 2024/00085. 22: 2024/01/02. 43: 2024/07/05
51: C03B
71: China Building Materials Academy Co., Ltd., China National Building Material Group Co., Ltd.
72: ZHU, Yongchang, JIAO, Yunjie, YANG, Debo, DAI, Changyou, CUI, Zhu, ZHAO, Yongxiang, QI, Jianping
54: EFFICIENT ISOLATING AGENT FOR FIRE POLISHING OF BOROSILICATE GLASS BEADS
00: -
An efficient isolating agent for fire polishing of borosilicate glass beads is provided. The isolating agent includes the following components in percentage by mass: 10-40 percent of alumina powder, 40-70 percent of quartz powder, 0.5-3 percent of table salt, 1-3 percent of cerium oxide powder, 1-3 percent of magnesium oxide powder, 5-6 percent of boric acid and 5-6 percent of barium silicate, where a particle size of the alumina powder is 140-200 meshes, and a particle size of the quartz powder is 80-100 meshes. The table salt is at an industrial grade and has a particle size of 100-120 meshes. A particle size of the cerium oxide powder is 180-220 meshes, and a particle size of the magnesium oxide powder is 180-220 meshes. The isolating agent has a water content of less than 0.5 percent by mass.

21: 2024/00086. 22: 2024/01/02. 43: 2024/07/05
51: E21C; G01N
71: Liupanshui Normal University, Shaanxi Yulin Energy Group Yushen Coal Power Co., Ltd., China University of Mining and Technology
72: GAO, Ying, BAI, Ruhong, FAN, Limin, LI, Tao, SUN, Qiang, LI, Xiaolong, LIU, Ningping, SUN, Kui, LI, Bo, XIAO, Siyou
33: CN 31: 2023115418495 32: 2023-11-17
54: METHOD OF WATER-PRESERVED COAL MINING IN LIGHT-COLOURED CLAY AREA
00: -
The present disclosure provides a method of water-preserved coal mining in a light-coloured clay area and relates to the technical field of water-preserved coal mining. The method of water-preserved coal mining includes: within a vertical ground projection region of a coal mining working face, arranging a plurality of continuous sludge pools along a strike of the coal mining working face, where the sludge pools are communicated with the ground, but adjacent sludge pools are not communicated with each other; mining coal in the coal mining working face along the strike of the coal mining working face; and during advancing of the coal mining working face, filling the sludge pool next to a current advancing position of the coal mining working face, and continuously performing mechanical stirring on the filled sludge pool until coal mining is finished.



21: 2024/00099. 22: 2024/01/02. 43: 2024/07/08
51: G06Q
71: DALIAN UNIVERSITY
72: WANG, Xieyong, LAN, Jian, XIA, Hongchun, XIE, Jingwei, WANG, Qiang, LV, Zikun
33: CN 31: 202111106019.0 32: 2021-09-22
54: COLLEGE STUDENT INNOVATION AND ENTREPRENEURSHIP CREDIT MANAGEMENT SYSTEM AND METHOD BASED ON BLOCKCHAIN TECHNOLOGY
00: -
Disclosed is a college student innovation and entrepreneurship credit management system based

on a blockchain technology, comprising an administrator module. The administrator module comprises a role management module and a credit management module. The role management module comprises a student module, a teacher module, and a college module. The student module comprises a student information management module and an innovation and entrepreneurship archive declaration module. In the present invention, collaboration trust and concerted action among a plurality of nodes, summarization and storage of innovation and entrepreneurship information, data visualization, and automatic generation of an innovation and entrepreneurship capability evaluation result are achieved, and a whole-process management platform of a student personal innovation and entrepreneurship transcript is automatically generated, thereby meeting the requirements of information and resource acquisition in innovation and entrepreneurship training activities, full-process information acquisition and management, and intelligent analysis and visual presentation of innovation and entrepreneurship data.

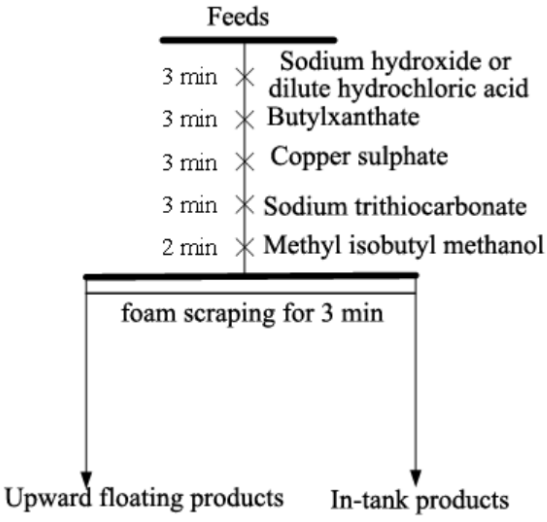


21: 2024/00130. 22: 2024/01/03. 43: 2024/07/08
51: C25D
71: Kunming University of Science and Technology
72: LIU Jian, YU Yunlong, HAO Jiamei, GAO Hulin

54: METHOD FOR INHIBITING CHALCOPYRITE BY COPPER ION-ENHANCED SULFUR-BASED REDUCING AGENT

00: -

The invention discloses a method for inhibiting chalcopyrite by copper ion-enhanced sulfur-based reducing agent, which belongs to the technical field of mineral processing engineering flotation. The method comprises the following steps: dosing the agents in the following order: firstly adding a pH regulator to adjust the pH of the ore slurry, and then sequentially adding a collector, a strengthening inhibitor, a main inhibitor and a foaming agent; the slurry is the slurry of mixed concentrate containing copper and molybdenum obtained after mixed flotation, where sodium hydroxide or dilute hydrochloric acid is used as a pH regulator to adjust the pH of the slurry; butyl xanthate is used as flotation collector; copper sulfate is used to provide copper ions as a strengthening inhibitor; sulfur-based reductant uses thiocarbonate (Me2CSx) or sulfite (Me2SO3) as the main inhibitor; methyl isobutyl methanol as foaming agent. The floating product is obtained after 3-5 minutes of bubble scraping, and the flotation recovery is calculated after drying and weighing. The method of the invention uses copper ions to strengthen the inhibition of sulfur-based reducing agent on chalcopyrite, which can effectively inhibit chalcopyrite, greatly reduce the dosage of main inhibitors under the same conditions, and avoid introducing other ions to pollute chalcopyrite concentrate.

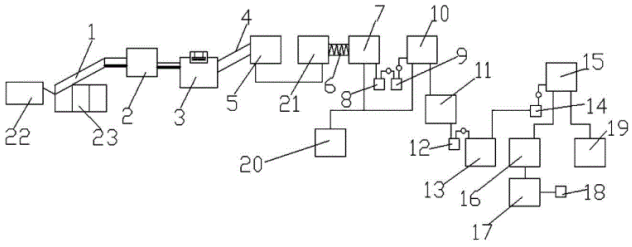


21: 2024/00131. 22: 2024/01/03. 43: 2024/07/08
51: A23L
71: Gansu Agricultural University
72: Jinfeng WU, Xiaopeng HUANG, Fangxin WAN, Guojun MA, Yanrui XU, Junmin MA, Zepeng ZANG, Zhiqiang ZHANG

54: A PROCESSING SYSTEM BASED ON THE FULL RESOURCE UTILIZATION OF SEED MELON

00: -

The invention relates to a processing system based on the full resource utilization of seed melon, which belongs to the processing technology field of agricultural and sideline products, including cleaning and impurity removal equipment, crushing and refining equipment, juice separation equipment, sterilization equipment and concentration evaporation equipment which are set in sequence according to the production process; the cleaning and impurity removal equipment includes a receptacle trough, a bubble floating washing machine and a spray fruit inspection machine which are set in sequence according to the production process; the crushing and refining equipment includes a crushing and seed-taking machine, a melon peel crusher, a screw conveyor pump, and a double-channel pulping machine which are set in sequence according to the production process. The crushing and seed-taking machine is arranged at the back end of the spray fruit inspection machine; the juice separation equipment includes a horizontal screw separator, a disc separator, an ultrafiltration equipment, and a nanofiltration equipment which are set in sequence according to the production process. The invention adopts the above processing system, which can continuously process seed melon in batches, so that the whole body of seed melon can be fully utilized, and the production capacity can reach 10 tons/hour, and all the indicators obtained above can reach the standard.



21: 2024/00132. 22: 2024/01/03. 43: 2024/07/08

51: B01D

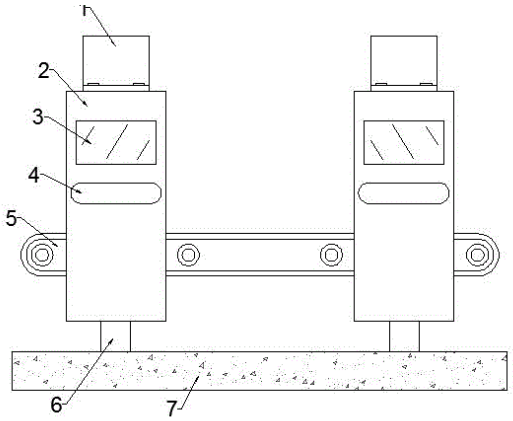
71: Xiaoyun Wang

72: Xiaoyun Wang

54: A DUST PROTECTION DEVICE FOR A LOADING AND UNLOADING WORKING SECTION

00: -

The invention discloses a dust protection device for a loading and unloading working section, comprising a base. The top of the base is uniformly arranged with a supporting frame, and the top of the supporting frame is arranged with a conveyor belt. The outer side of the conveyor belt is uniformly installed with a dust anti-slip cover, and the top of the dust anti-slip cover is installed with an outlet pipe. The top of the dust anti-slip cover is installed with an active base, and one side of the active base is installed with a motor. In the process of loading and unloading by the staff, the powder and air generated can filter out the dust through the filter net, and at the same time, the movable base can be installed. The starting motor drives the worm to rotate and under the action of meshing connection, the worm gear drives the rotating rod to rotate. It further drives the connecting frame and the bottom end of the pipe to swing, so that the water diffusion is more uniform. When the loading and unloading mechanism is not running, the water can be diffused out through the sprinkler head, which can play the function of dust removal.



21: 2024/00133. 22: 2024/01/03. 43: 2024/07/08

51: A23L

71: Institute of Agriculture, Xizang Autonomous Region Academy of Agriculture and Animal Husbandry Sciences

72: Xiaoli Gao, Zhaxi-Laba, Pengjia Tian, Yangzong-Nima, Zihui Chang

54: A METHOD FOR COOKING PEA-SAUCE NOODLES BY USING XIZANG WHITE PEA RESOURCES

00: -

The invention relates to the technical field of food, in particular to a method for cooking pea-sauce

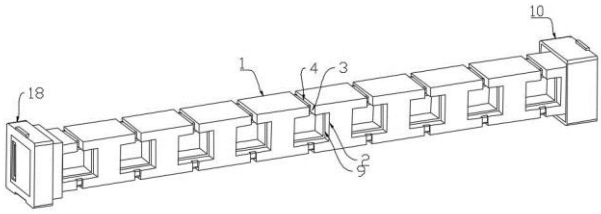
noodles with peas and meat sauce by using Xizang white pea resources. It consists of the following steps: Put the boiled Xizang white peas and the blanched pork bones into a casserole dish; Add old ginger and boil in boiling water for 5 hours until Xizang white peas to be cooked rotten thoroughly, then remove Xizang white peas and set aside; Prepare minced meat; Prepare noodle seasoning; Prepare side dishes; When the water in the pot is boiling, put in the noodles and cover the pot. After the water is boiling again, add half a cup of water, remove the cover and boil again. Add garnish and continue cooking for 2 minutes; Transfer the cooked noodles and garnishes to a large bowl. Drizzle with Xizang white peas and split peas. The beneficial effects are as follows: the method of making split flour with Xizang white pea resources is proposed in the invention. By adding Xizang white peas to the pea-sauce noodles, with a noodle seasoning. This increases the edible taste of traditional pea-sauce noodles. Moreover, Xizang white pea has high protein and starch content because of its special growing environment.

21: 2024/00134. 22: 2024/01/03. 43: 2024/07/08
51: A01G
71: Institute of Agriculture, Xizang Autonomous Region Academy of Agriculture and Animal Husbandry Sciences
72: Xiaoli Gao, Wencai Yang, Wenhua Liao

54: A METHOD FOR CONSERVING AND EXPANDING WILD LEEK ROOT TUBER GERMPLASM RESOURCES IN ALPINE REGION

00: -

The invention relates to the planting technical field, in particular to a method for conserving and expanding wild leek root tuber germplasm resources in alpine region, which comprises the following steps: Push the root of wild leek into the storage bin, then pass the neck of wild leek through the slot, and then push it into the storage bin after a circle around the stem-winding slot; when wild leek roots are stored in multiple storage bins on the surface of the tuber storage box, stretch the flexible waterproof cover folded inside the storage slot and cover the tuber storage box, so that the rubber ring at the end of the flexible waterproof cover is placed in the clamping slot, and the flexible waterproof cover covers the tuber storage box. The beneficial effects are as follows: The method of preserving and expanding germplasm resources of wild leek tuber in the high cold area proposed by the invention is to push the root into the storage bin, and push the stem into the storage bin after a circle around the stem-winding slot, so as to realize the neat storage of a single root and stem, and the flexible waterproof cover is put on the tuber storage box to realize the protection of the root and stem for storage.



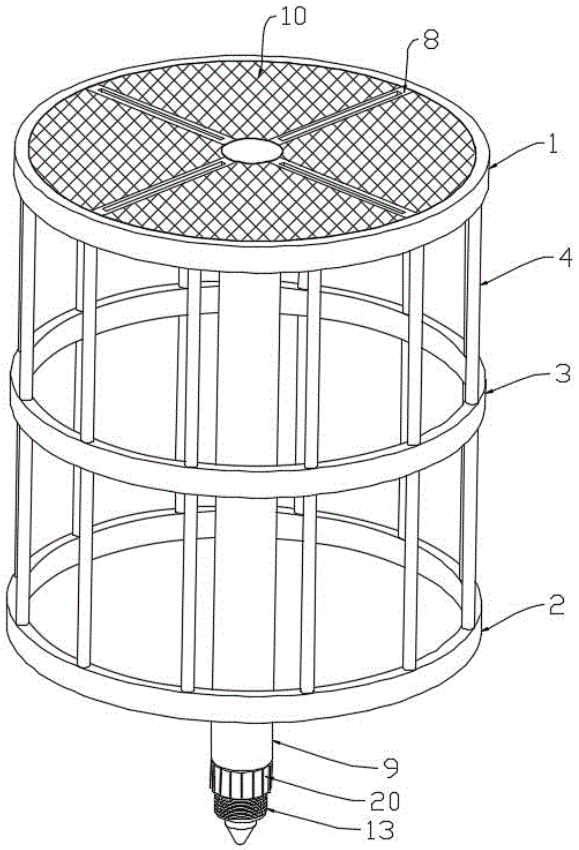
21: 2024/00135. 22: 2024/01/03. 43: 2024/07/08
51: A01G
71: Institute of Agriculture, Xizang Autonomous Region Academy of Agriculture and Animal Husbandry Sciences
72: Xiaoli Gao, Wencai Yang, Wenhua Liao, Haijiao Huang

54: A PLANTING METHOD FOR PREVENTING AND CONTROLLING THE LODGING ROOT ROT OF PEAS

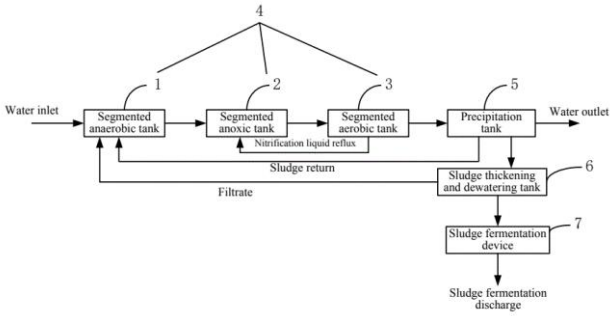
00: -

The invention relates to the field of planting technology, in particular to a planting method for preventing and controlling lodging root rot of peas. It includes the following steps: In the process of reproduction, storage and preservation of local vining pea resources in Xizang Province, when the flowering and podding period coincides with the rainy season in Xizang Province, it is sunny in the day and rainy in the night, root rot and plants are easy to fall during the podding period. Firstly, the soil should be irrigated in winter, fertilized with organic fertilizer + inorganic fertilizer before sowing, treated with full irrigation and deep turning, and the seeds should be dried, selected and coated. Portable scaffolding treatment was carried out at seedling stage to prevent peas from lodging. The beneficial effect of the invention is: the planting method of preventing and controlling the lodging root rot of peas. After the sleeving is fixed on both sides of the middle ring, the sleeving is connected with the top ring and the bottom ring through a sleeve to facilitate the adjustment of the spacing between the top ring

and the bottom ring. And it is easy to adjust the top ring and bottom ring spacing to the minimum turnover; this further solves the problem that the existing pea racks are inconvenient to use in turnover; this allows quick installation of the pea stand.

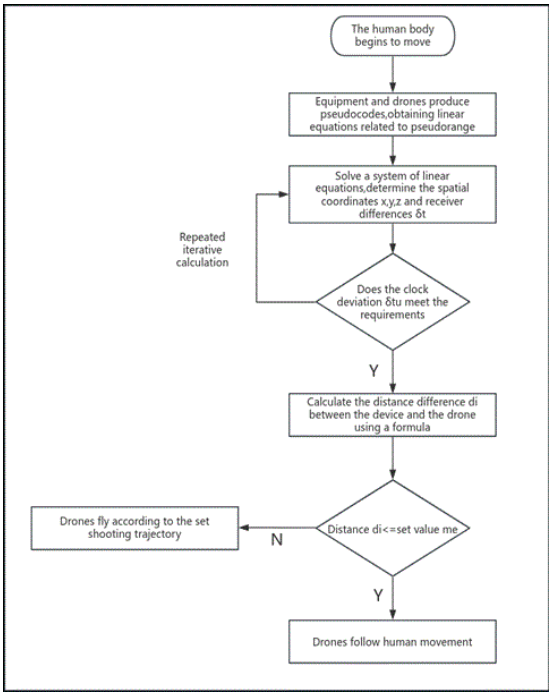


21: 2024/00137. 22: 2024/01/03. 43: 2024/07/08
51: C02F
71: China Northeast Municipal Engineering Design and Research Institute Co., Ltd.
72: DONG, Yanhong, YAN, Yu, SUN, Yang
33: CN 31: 202310046631.6 32: 2023-01-31
54: SYSTEM COMBINING SEGMENTED A2 /O SEWAGE TREATMENT AND SLUDGE RESOURCE UTILIZATION
00: -
Disclosed is a system combining segmented A2/O sewage treatment and sludge resource utilization. The system includes a segmented anaerobic tank in communication with a water inlet end, where the other end of the segmented anaerobic tank is sequentially connected to a segmented anoxic tank, a segmented aerobic tank and a precipitation tank, the precipitation tank is provided with a water outlet end and a sludge outlet end, the sludge outlet end is sequentially connected to a sludge thickening and dewatering tank and a sludge fermentation device, and the sludge fermentation device is provided with a sludge fermentation discharge port. The segmented anaerobic tank, the segmented anoxic tank and the segmented aerobic tank are internally provided with sludge-water separation devices, the segmented aerobic tank is further connected to the segmented anoxic tank, and the precipitation tank is further connected to the segmented anaerobic tank.



21: 2024/00138. 22: 2024/01/03. 43: 2024/07/08
51: G01C
71: Merry Wiser (Jinhua) Technology Development Co., Ltd, Xingzhi College, Zhejiang Normal University
72: Jun ZHU, Zhizhuang DUAN, Ruiyang HUANG, Haoqin DONG, Menglong SU
33: CN 31: 202310259936.5 32: 2023-03-09
54: TRAJECTORY GENERATION METHOD FOR DRONE TARGET TRACKING
00: -
The present invention relates to a trajectory generation method for drone target tracking, comprising a drone using a built-in GPS module and a device with a built-in GPS module worn by a human body. When the human body is in motion, the device worn by the human body and the drone generate pseudocodes; perform pseudorange measurement at a certain moment in GPS time; obtain a nonlinear equation system related to pseudorange, repeat iterative calculations to obtain accurate coordinates, use Dijkstra algorithm to calculate the shortest path in a weighted directed graph, and the drone flies according to the shortest movement trajectory from the starting point to the human target point; the drone and device of the present invention perform pseudorange

measurement at a certain moment in GPS time, and repeat iterative calculations to reduce errors, which is conducive to obtaining accurate coordinates of the device and drone; Based on weighted graph search, the coordinates of the drone and the human body are treated as two endpoints, representing the starting and ending points. The algorithm calculates the shortest trajectory in the graph.

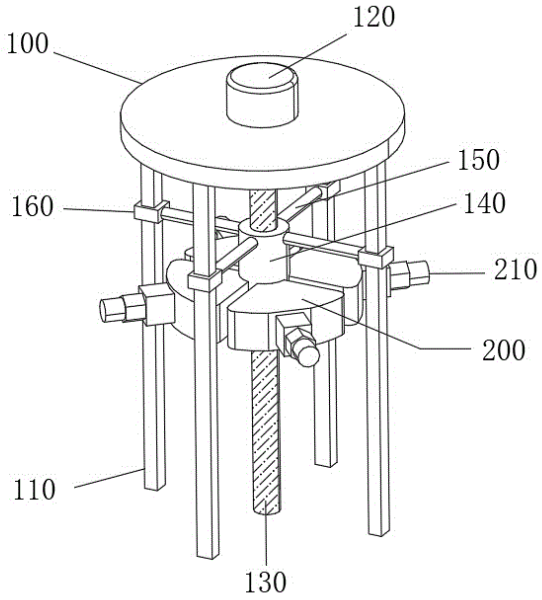


21: 2024/00165. 22: 2024/01/04. 43: 2024/07/08
51: G01N
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION
72: LI Songya, WANG Linpei, CHEN Changxing, LIU Biao, WANG Le, GU Deming, ZHOU Yiming, CHEN Binghua, WANG Xiaoyan

54: SEWAGE TREATMENT SAMPLING DETECTION DEVICE

00: -

The invention belongs to the technical field of sewage treatment, in particular to a sewage treatment sampling detection device, which comprises a mounting plate and an independent water storage tank; the four corners of the bottom of the mounting plate are provided with upright posts, the surface of the upright posts is provided with sliding sleeves, the top of the mounting plate is provided with a servo motor, the output end of the servo motor penetrates through the mounting plate and is provided with a threaded rotating rod, the surface of the threaded rotating rod is provided with a matched threaded lifting sleeve, the outer wall of the threaded lifting sleeve is provided with a connecting rod, and the other end of the connecting rod is connected with the sliding sleeve; the bottom of the threaded lifting sleeve is provided with an independent water storage tank, one side of the independent water storage tank is provided with a water inlet pipe, one end of the water inlet pipe is provided with an electromagnetic valve, and the water inlet pipe is provided with a filter; the device has a reasonable structure, can sample water in different depths during use, and can be stored independently at the same time, which has strong practicability and improves the accuracy of detection.



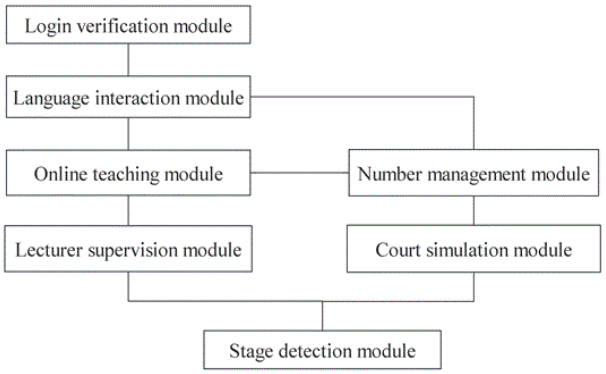
21: 2024/00166. 22: 2024/01/04. 43: 2024/07/08
51: G06Q
71: Henan University of Urban Construction
72: ZHANG Xiaojuan

54: ONLINE INTERACTIVE LEARNING SYSTEM SUITABLE FOR INTERNATIONAL LAW

00: -

The invention discloses an online interactive learning system suitable for international law, which includes a login verification module, used for distinguishing the student or lecturer identities of users and logging in to the system; a language interaction module, used for setting a language interaction list, independently selecting an interaction language,

translating and converting the input different characters or languages, and outputting the information after correction; an online teaching module, used for selecting courses based on students' identity, and carrying out theoretical knowledge teaching and skill improvement teaching of international law according to different curriculum arrangements based on lecturers' identity; a court simulation module, used for simulating the court based on VR devices, and choosing the role of the mock court to debate; and a stage detection module, used for detecting students' stage learning, and the interactive analysis of errors by the lecturer with the students. The online interactive learning system greatly improves the learning effect and learning efficiency of students.

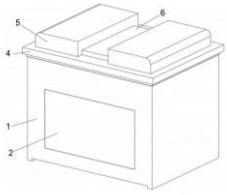


21: 2024/00167. 22: 2024/01/04. 43: 2024/07/08
51: F24F
71: SHANGHAI UNIVERSITY OF MEDICINE AND HEALTH SCIENCES
72: CHEN, Lifan, TAN, Zhiying, ZHOU, Liang, KONG, Ping

54: EPIDEMIC SIMULATION ECOLOGICAL BOX PROVIDED WITH DOUBLE-LAYER PROTECTIVE STRUCTURE

00: -

Disclosed is an epidemic simulation ecological box provided with a double-layer protective structure, including: a protective housing and controllers, where the protective housing is provided as a rectangular box-shaped structure with an upper opening; one observing plate is provided in each of two sides of the protective housing, and a sealing station is provided at a bottom end of an inner wall surface of the protective housing; an upper end of the protective housing is snapped to a sealing top plate, and a sealing element is provided at the connection between the sealing top plate and the upper end of the protective housing; the controllers are mounted on an upper end of the sealing top plate.

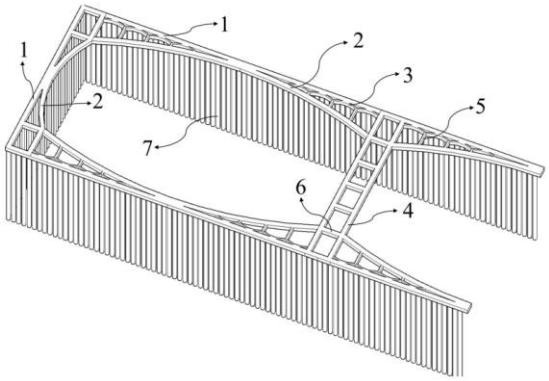


21: 2024/00168. 22: 2024/01/04. 43: 2024/07/08
51: E02D
71: Henan University of Urban Construction
72: HU Guoping, RUAN Xiaoxue, LIU Jiawei, ZHANG Hanqiu, ZHANG Yunlai, XIA Yingzhi, LI Hui, YIN Zhenyu

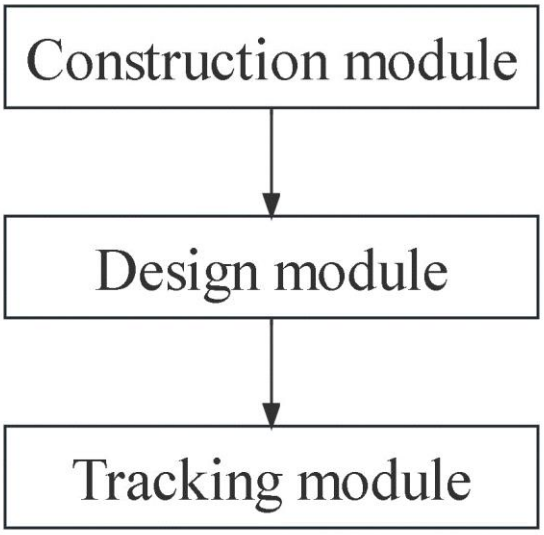
54: ARCHED INTERNAL SUPPORT SYSTEM FOR RECTANGULAR FOUNDATION PIT SUPPORT AND DESIGN METHOD THEREOF

00: -

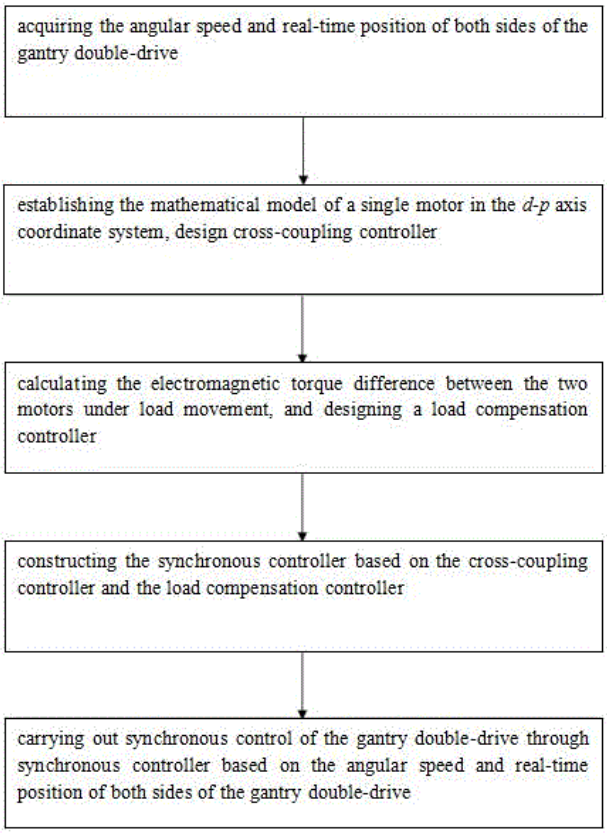
The invention discloses an arched internal support system for rectangular foundation pit support and a design method thereof. The arched internal support system of the invention consists of structural units including a crown beam, a large arched supporting beam, a small arched supporting beam, a linear supporting beam and the like, and all the structural units are rigidly connected. This structural system utilizes the characteristic that the arch structure can transmit the pressure to both sides in the vertical direction, and transmits the earth pressure on the middle retaining pile to the soil on both sides, so as to reduce the lateral displacement of the middle retaining structure to the inside of the foundation pit. At the same time, the pressure transmitted to both sides can also offset the earth pressure on the side, thus reducing the lateral displacement of the side retaining structure to the inside of the foundation pit. The arch internal support system structure of the invention is reasonable in design, the number of used transverse supports is small, the construction scope of the foundation pit enclosure structure does not need to be enlarged, and a larger working space can be ensured in the foundation pit.



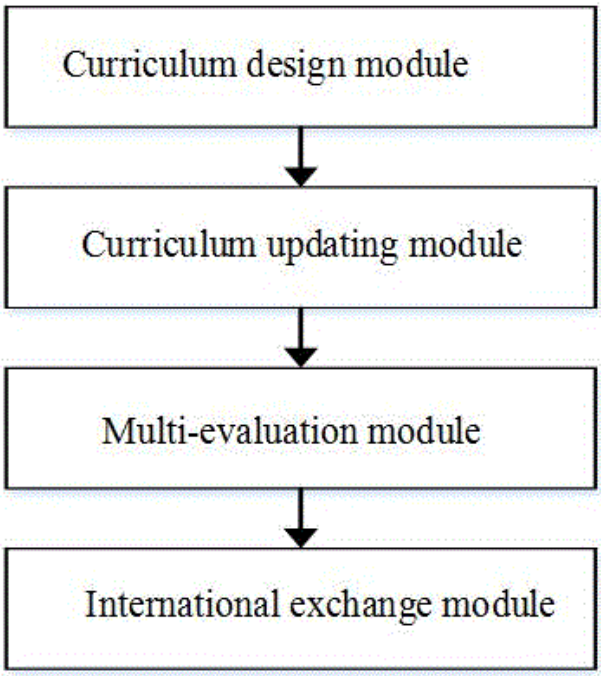
21: 2024/00169. 22: 2024/01/04. 43: 2024/07/08
51: B23K
71: Henan University of Urban Construction
72: MU Jingjing, LI Yajie, ZHANG Xiaoguo, XU Huafeng, DU Yabing, CAI Yujie, HUA Pei
54: SYNCHRONOUS CONTROL SYSTEM FOR DUAL-AXIS SYNCHRONOUS LASER CUTTING EQUIPMENT
00: -
The invention discloses a synchronous control system for the dual-axis synchronous laser cutting equipment, which includes a construction module, a design module and a tracking module; the construction module is used for modeling the dual-axis synchronous laser cutting equipment; the design module is used for designing an observer and an anti-jamming controller according to the output information of the established model; and the tracking module is used for making the output of the dual-axis synchronous laser cutting equipment track the reference trajectory based on the observer and the anti-jamming controller to form a closed-loop system. The invention can realize higher precision and higher speed movement.



21: 2024/00170. 22: 2024/01/04. 43: 2024/07/08
51: G05B
71: Henan University of Urban Construction
72: MU Jingjing, WEI Lijun, ZHOU Shuke, GAO Fashun, LAN Qixun, CHEN Yao, LI Deying
54: SYNCHRONOUS CONTROL METHOD FOR GANTRY DOUBLE-DRIVE
00: -
The invention relates to the technical field of motor control, in particular to a synchronous control method for gantry double-drive, which includes the following steps: acquiring the angular speed and real-time position of both sides of the gantry double-drive; comparing and adjusting the angular speed and real-time position of both sides of the gantry double-drive based on a preset synchronous controller, and realizing synchronous control of the gantry double-drive, where the synchronous controller is constructed based on a cross-coupling algorithm and load compensation. According to the invention, the synchronous error of the gantry double-drive movement platform can be quickly compensated in a high-speed movement state, and the problem of poor synchronous control dynamic performance of the gantry platform driven by double motors under the condition of unbalanced load and frequent movement is solved.

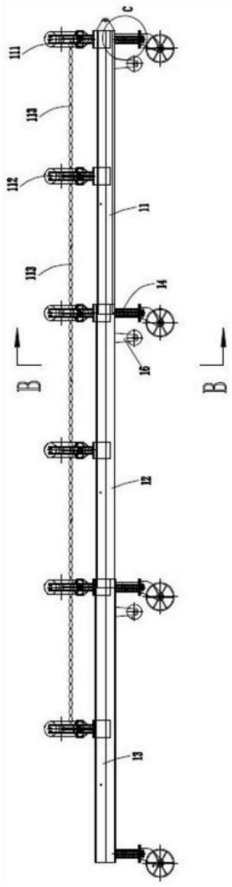


21: 2024/00171. 22: 2024/01/04. 43: 2024/07/08
51: G06N
71: Henan University of Urban Construction
72: ZHANG Xiaojuan
54: INTERNATIONAL LAW LEARNING EVALUATION SYSTEM
00: -
The invention discloses an international law learning evaluation system, which belongs to the field of learning evaluation, and comprises a curriculum design module for designing a practice-oriented international law learning curriculum; the curriculum updating module is used for regularly reviewing and updating the international law learning curriculum based on the real-time development of international law; the multi-evaluation module is used for comprehensively evaluating the students' mastery status after learning the international law curriculum through a multi-evaluation mode; the international exchange module is used for actively communicating with international organizations based on the mastery status; wherein, the curriculum design module, the curriculum updating module, the multi-evaluation module and the international exchange module are connected in sequence. The invention has enough flexibility, can reflect emerging legal problems and challenges in time, solves the scoring difference between different appraisers, improves the reliability of appraisal, and can deeply understand the actual operation of international law and learn the solutions to problems in practice.



21: 2024/00172. 22: 2024/01/04. 43: 2024/07/08
51: B65G
71: Ningxia Tiandi Northwest Coal Machinery Co. , Ltd., National Energy Group Ningxia Coal Industry Co. , Ltd.
72: LAN Chunsen, ZHANG Fenyou, YANG Changjun, HAN Fangjun, HAI Bin, WANG Ning, FENG Baozhong, CAI Ruikun, YANG Hai, TONG Jianzhong, MA Zhao, TIAN Yanjun, YANG Jianqin
54: AUTOMATIC MOVING CONVEYING SYSTEM
00: -
The automatic moving conveying system provided by the invention includes a telescopic machine body, a normal machine body and a stepping mechanism which are sequentially connected, where the left end of the telescopic machine body is used for connecting with the external self-moving machine tail, the right end of the telescopic machine body is connected with one end of the stepping mechanism, and the other end of the stepping mechanism is connected with the normal machine body; the telescopic machine body includes a plurality of telescopic rods which are connected end to end, and

the adjacent fixed top idler set and the sliding top idler set are connected by flexible chains, at least one supporting leg and one bottom idler set are also arranged below each telescopic rod, and universal wheels are also arranged below the supporting leg for supporting the telescopic rods. The normal machine body includes a plurality of machine body monomers connected end to end, and the stepping mechanism can move to the right and is used to drive the telescopic machine body to move to the right. Through the improvement of the invention, the downtime of the telescopic belt conveyor in the gateway working face is reduced, which not only improves the coal mining efficiency, but also reduces the personnel allocation for dismantling the normal machine body.



21: 2024/00173. 22: 2024/01/04. 43: 2024/07/08
51: A01H
71: Guizhou Normal University
72: LIU Jie, YI Yin, QIU Xiangting, GU Yunying, LI Xue

54: TISSUE CULTURE AND RAPID PROPAGATION METHOD OF RHODODENDRON DENUDATUM ASEPTIC SEEDLINGS

00: -

The invention provides a tissue culture and rapid propagation method of Rhododendron denudatum aseptic seedlings, and relates to the technical field of plant tissue culture and rapid propagation. The method of the invention comprises the following steps: taking young tissues of Rhododendron denudatum as explants, sterilizing the explants, inoculating the explants on an induction medium, and inducing and culturing for more than 30 days to obtain sterile seedlings of Rhododendron denudatum; the induction medium takes 1/2WPM as the basic medium, and further comprises 1.5mg/L 6-BA, 1.0mg/L 2,4-D, 50mg/L hydrolyzed casein, 30g/L sucrose and 8g/L agar powder, and the pH value is 5.0. The method provided by the invention is simple to operate, and can make the emergence rate as high as 87 percent, thus solving the existing problem of low reproductive efficiency of Rhododendron denudatum.

21: 2024/00174. 22: 2024/01/04. 43: 2024/07/08
51: A01G
71: JINGGANGSHAN UNIVERSITY
72: YAN Xiaohong, ZHOU Bing, LIAO Xinjun, XIAO Haiyan, SU Qitao, LEI Chunhua

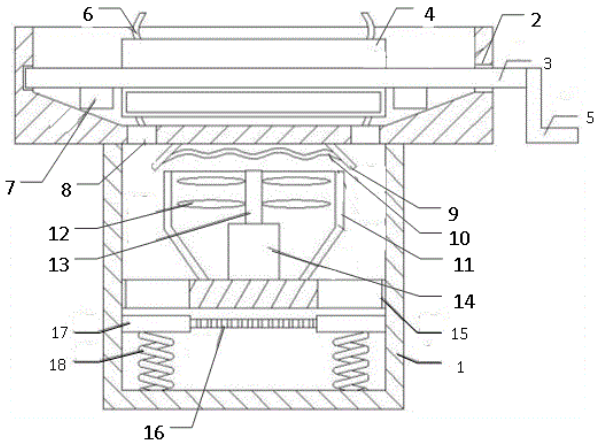
54: METHOD FOR BREEDING CUSCUTA AUSTRALIS BY USING INVASIVE PLANT PHYTOLACCA AMERICANA

00: -

A method for breeding Cuscuta australis by using the invasive plant Phytolacca americana belongs to the regulated reproduction method of medicinal plants, which is characterized in that it uses Phytolacca americana as a reproduction host medium to breed Cuscuta australis, including the following steps: selecting seedlings of the current year or perennial Phytolacca americana as a reproduction mother plant, with a culture temperature of 15-35 degrees Celsius, a humidity of 50-90 percent and a light of 30-100 percent; the temperature is 20-35 degrees Celsius, when the seedling grows up to 15-25 cm or the perennial seedlings grow into tender shoot tips, the stem segments of dodder with shoot tips of about 15 cm in length are wound around the shoot tips of Phytolacca americana, and a proper amount of

water is sprayed on the dodder every hour that day, and then sprayed once every morning and evening; after parasitic treatment for about 5 days, Cuscuta australis can successfully infect Phytolacca americana, and the successfully infected Phytolacca americana can be used as a parasitic mother plant to further propagate Cuscuta australis. The invention can breed Cuscuta australis in large quantities all year round, and the survival rate is as high as over 90%, thus achieving the double effects of utilization and control.

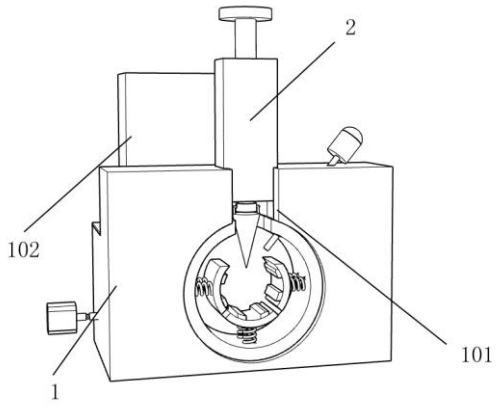
21: 2024/00175. 22: 2024/01/04. 43: 2024/07/08
51: F26B
71: Kunming University of Science and Technology
72: Yi QIANG, Ronggao QIN, Guangzhu CAO, Yanfeng LU, Baozhu LI, Ruoyu MAO
54: DEVICE FOR RAPIDLY DRYING SOIL
00: -
The invention discloses a device for rapidly drying soil, which belongs to the field of soil technology, including a box, a turnover mechanism is arranged above the shell of the box, a heating mechanism, and a screening mechanism are arranged in the inner cavity of the box, and the heating mechanism is arranged above the screening mechanism. The invention adopts the above-mentioned device for rapidly drying soil, which accelerates the drying efficiency of soil and achieves the purpose of screening.



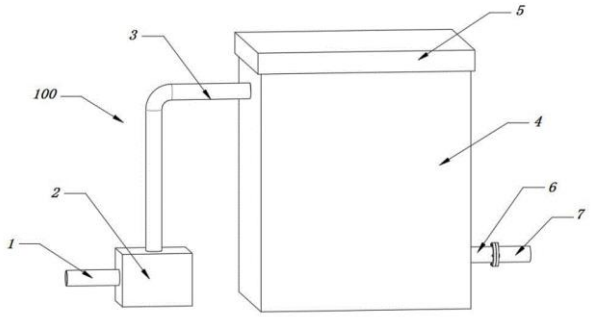
21: 2024/00176. 22: 2024/01/04. 43: 2024/07/08
51: A61P
71: HENAN UNIVERSITY, HENAN NATURAL PRODUCTS BIOTECHNOLOGY CO.,LTD, SANYA INSTITUTE HENAN UNIVERSITY, HENAN ACADEMY OF SCIENCES
72: WANG, Zhiyao, WANG, Wei, CHEN, Fei, WANG, Tao, ZHANG, Naichao, CHEN, Yingjie, ZHOU, Yong, LIANG, Yahui, CHANG, Xia, LU, Minghua
54: NEW ANTIBACTERIAL, ANTI-INFLAMMATORY, AND ANALGESIC MEDICINAL AND EDIBLE TRADITIONAL CHINESE MEDICINE COMPOSITION AND PREPARATION METHOD THEREOF
00: -
The present invention relates to a new anti-inflammatory, analgesic, or antibacterial medicinal and edible traditional Chinese medicine composition, which has the functions of warming the meridians and dispersing cold, dispelling wind and removing dampness, and clearing collaterals and regulating the qi to relieve pain, and has the characteristics of being safe, effective, and convenient, and can be widely used as a traditional Chinese medicine topical medicine in the prevention and treatment of neck, shoulder, waist, and leg pains, rheumatic arthritis, rheumatoid arthritis, bruises, abdominal cold pain, and other diseases.

21: 2024/00178. 22: 2024/01/04. 43: 2024/07/08
51: G01N
71: The Affiliated Hospital of Southwest Medical University
72: Li Hanjun
54: BLOOD TYPE DETECTOR DEDICATED TO BLOOD TRANSFUSION DEPARTMENTS
00: -
Discloses is a blood type detector dedicated to blood transfusion departments, falling within the technical field of blood type detectors. A housing is included. A first replacement port is disposed at a top portion of a front face of the housing; one side of a rear end of a top portion of the housing is fixedly connected to a storage box, and a bottom of a back face of the storage box is movably connected to a fixture block; a square port is disposed on the other side of a rear end of a front face of the top portion of the housing; an inner side of the housing is fixedly connected to a fixed sleeve, and a bottom of an inner surface of the fixed sleeve is fixedly connected to first circular rings; and a middle portion of the housing is fixedly connected to a finger-placing ring. According to the present invention, the time for placing test strips is reduced, shortening the detection time of a blood

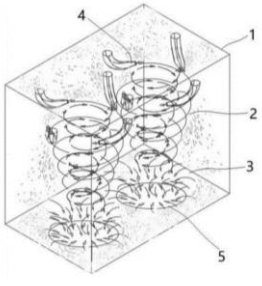
type for a single person, and improving the operation efficiency of medical staff; the finger can be punctuated only by pressing the pressing block; and the first spring is arranged inside the fixed sleeve, which can effectively increase the sense of damping when pressing, avoiding bleeding too much caused by a big wound of the finger due to heavily press.



21: 2024/00183. 22: 2024/01/04. 43: 2024/07/08
51: A01G
71: SHANDONG ACADEMY OF AGRICULTURAL SCIENCES
72: MA, Zheng, LIU, Shenglin, SHEN, Yuwen, ZHENG, Fuli, TIAN, Ye, SHAN, Hongtao
54: SALINE-ALKALI LAND IRRIGATION APPARATUS
00: -
The present disclosure discloses a saline-alkali land irrigation apparatus, and relates to the technical field of irrigation, including a water tank, a water pump, an water outlet pipe and a first filter plate. The water tank has a water tank inlet and a water tank outlet. The water pump has a water outlet connected to the water tank inlet through a connecting pipe. An inlet end of the water outlet pipe is connected to the water tank outlet. The first filter plate is detachably provided in the water outlet pipe and/or the connecting pipe. When irrigating, the first filter plate can filter impurities in the water to prevent impurities from accumulating in the irrigation water pipe and causing blockage of the irrigation water pipe, which can be used in the irrigation operation of saline-alkali land. When not irrigating, the first filter plate can be disassembled and cleaned of impurities.

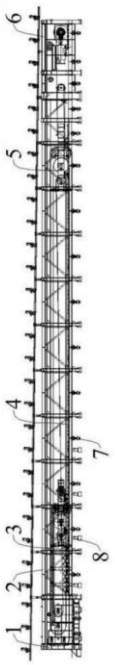


21: 2024/00203. 22: 2024/01/05. 43: 2024/07/10
51: F24F
71: Central South University
72: ZHANG, Yicheng, LI, Wei, LI, Miaomei, QI, Mingfei, LI, Yuxiang, HAN, Ruoyan, ZHU, Zhaoxi, ZHOU, Nanqing
54: INDOOR VENTILATION SYSTEM BASED ON CONVECTION IN LIMITED RANGE
00: -
Provided is an indoor ventilation system based on convection in a limited range. The system includes a plurality of groups of small circulation ventilation flow fields, where the small circulation ventilation flow fields include upper convection zones and lower turbulent zones, and a plurality of air supply outlets are arranged at top ends of the upper convection zones and configured to input tangential airflow into a room. Heat exchangers are arranged at the air supply outlets and configured to perform heat exchange on the tangential airflow input into the room according to a difference between indoor and outdoor temperature, and the tangential airflow is tangent to the same horizontal circle, so as to form rotating airflow around a plumb bob axis in a limited range, and realize convection of fresh air in a local range of the rotating airflow for indoor personnel to breathe.

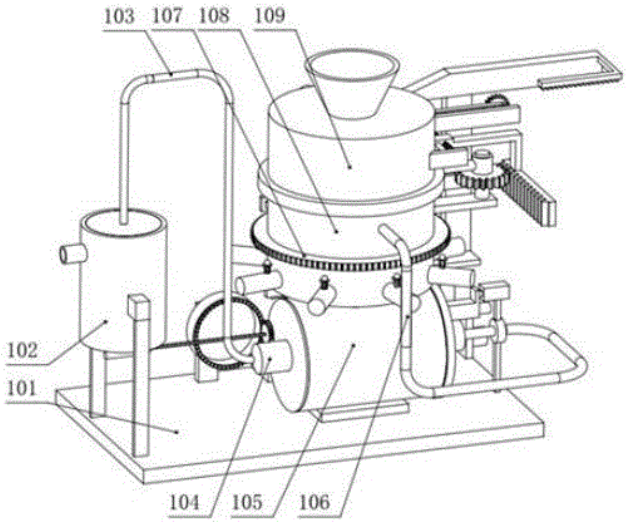


21: 2024/00204. 22: 2024/01/05. 43: 2024/07/10
51: B65G

71: Ningxia Tiandi Northwest Coal Machinery Co., Ltd., National Energy Group Ningxia Coal Industry Co., Ltd.
72: CAI Ruikun, YANG Changjun, WANG Ning, MA Yue, YANG Tao, FENG Baozhong, YANG Hai, MAI Lin, LAN Chunsen, YANG Jianqin, MA Yupeng, MA Liwei
54: CONVEYOR BELT STORAGE DEVICE
00: -
The embodiment of the invention relates to a conveyor belt storage device, which comprises a body and a wheel assembly; the wheel assemblies are arranged at the bottom of the body, and a plurality of wheel assemblies are arranged at intervals, and the wheel assemblies have a first position and a second position, wherein the wheel assemblies are separated from the ground, and the wheel assemblies are in contact with the ground at the second position. In the first position, the wheel assembly is disengaged from the ground, and in the second position, the wheel assembly is in contact with the ground. According to the belt storage bin provided by the embodiment of the invention, the resistance of the conveyor can be reduced when the conveyor is retracted in a short stop production line, so that the frame on the body is prevented from being deformed and cracked, and fast walking is realized.

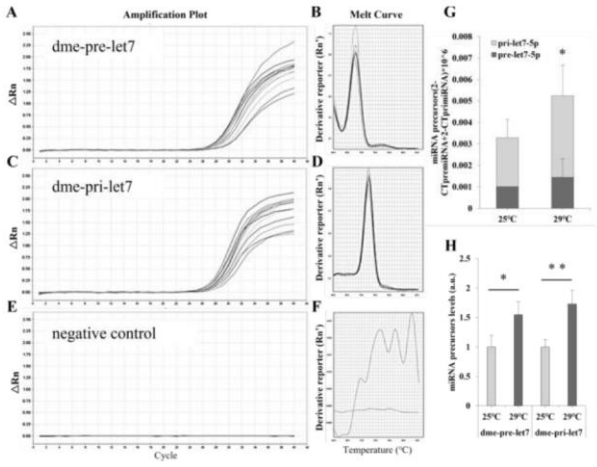


21: 2024/00205. 22: 2024/01/05. 43: 2024/07/10
51: E03B
71: WENZHOU POLYTECHNIC
72: LIU Yue, TANG Fenying, LIN Pan
54: EASY-TO-CLEAN WATER CIRCULATION SYSTEM FOR BUILDINGS
00: -
The invention discloses an easy-to-clean water circulation system for buildings, which relates to a water circulation system, and includes a lower box body, an upper box body is slidably arranged on the lower box body, a filter box is communicated with the bottom end of the lower box body, a plurality of medicament cartridges are arranged on the lower box body, and a waste heat boiler is also included. A filter material pushing assembly slidably arranged in the filter box for pushing out the material filtered by the arc filter layer; a control gear ring rotatably installed on the lower box body is used for controlling the medicament cartridges in different directions to delivery medicines. The invention solves the problem of constant cleaning trouble of the current water circulation system, and can effectively use resources.



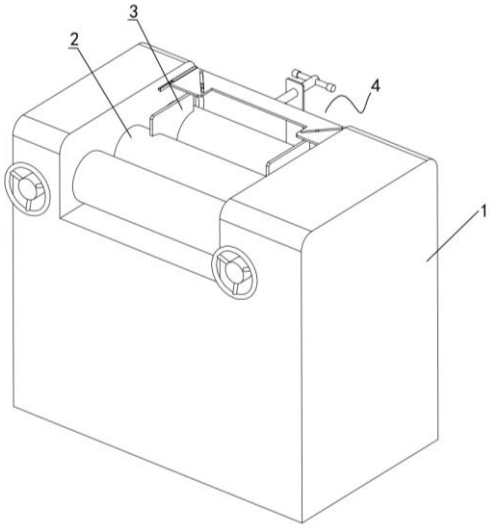
21: 2024/00208. 22: 2024/01/05. 43: 2024/07/10
51: C12Q
71: Soochow University
72: Meng Hongrui, Long Xiang, Jiang Mengni, Yan Shuangjia, Zhang Ting
33: CN 31: 2023100206234 32: 2023-01-06
54: METHOD FOR DETECTING PRIMARY AND PRECURSOR MIRNAS
00: -

The invention relates to a method for detecting primary and precursor miRNAs, which comprises the following steps of positioning a target miRNA, designing primers for the target miRNA and detecting RT-QPCR. Specifically: locate the target miRNA according to one or more of transcription start site, CpG island, expressed sequence tags, polyA, Cap analysis of gene expression and CIS-PET/Ditags; when design the primers, the setting range of the forward primer is from the 5'-terminal of the sequence to the GU motif, and the setting range of the reverse primer is from the CNNC motif to the 3'-terminal; and the Tm values of the forward primer and the reverse primer are 55~61oC, and the maximum Tm difference between the forward primer and the reverse primer is 2oC; perform reverse transcription and PCR on the sample, and establish a coordinate system of the fluorescence intensity and the target miRNA to realize the detection of the target miRNA. According to the annotation of the upstream and downstream boundaries of primary and precursor miRNA, the quantitative amplification primers are designed according to their transcription features, and the design method is simple and feasible, and has good potential application value for miRNA markers with clinical diagnostic significance.



21: 2024/00212. 22: 2024/01/05. 43: 2024/07/10
51: C08L
71: ANHUI ZHONGBO NEW MATERIALS CO., LTD
72: Gao Guilin, Gao Guilian, Dong Qian, Wei Kui
33: CN 31: 202310755436.0 32: 2023-06-26
54: GRINDING DEVICE AND METHOD FOR PREPARING EPOXY RESIN ENCAPSULATING MATERIAL WITH THE DEVICE

00: -
The invention discloses a grinding device and a method for preparing epoxy resin encapsulating material with the device, which relates to the technical field of encapsulating material preparation, including a grinding machine body. A baffle is symmetrically arranged between two grinding rollers on the grinding machine body, and an adjusting component for adjusting the distance between the two baffles is arranged on the rear side of the grinding machine body. The invention drives the adjusting plate to move through the screw on the adjusting component of the grinding machine body, The baffle on the grinding roller is adjusted at the same time, and the new epoxy encapsulant, which uses the modified resin composition and curing agent composition as raw materials in the preparation process, has the advantages of non flowing heating, strong shaping ability and strong heat resistance compared with the traditional encapsulant. The heat resistance, tensile property and affinity for lipid materials of the modified phenolic F epoxy resin are significantly improved compared with those before modification. Low temperature pretreatment is carried out before curing, It makes the mixture more closely connected with the base material, and also enhances the tensile properties of the encapsulating material.



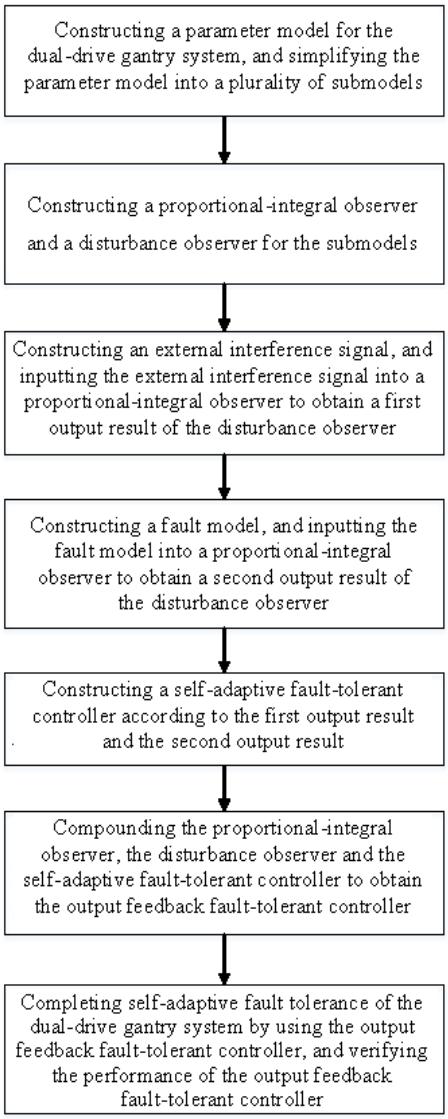
21: 2024/00213. 22: 2024/01/05. 43: 2024/07/10
51: G06F
71: HENAN UNIVERSITY OF URBAN CONSTRUCTION

72: MU, Jingjing, ZHANG, Xiaoguo, ZHANG, Huiyuan, GAO, Fashun, HUA, Pei, CHEN, Yao

54: FAULT-TOLERANT CONTROL METHOD FOR DUAL-DRIVE GANTRY SYSTEM

00: -

The present invention discloses a fault-tolerant control method for a dual-drive gantry system, and relates to the technical field of mechanical control. By designing an output feedback fault-tolerant controller to complete the self-adaptive fault tolerance of the dual-drive gantry system, the present invention can ensure that a gantry device can work when a fault occurs while maintaining the stability of the device.



21: 2024/00214. 22: 2024/01/05. 43: 2024/07/10

51: G06Q

71: Institute of Applied Ecology, Chinese Academy of Sciences

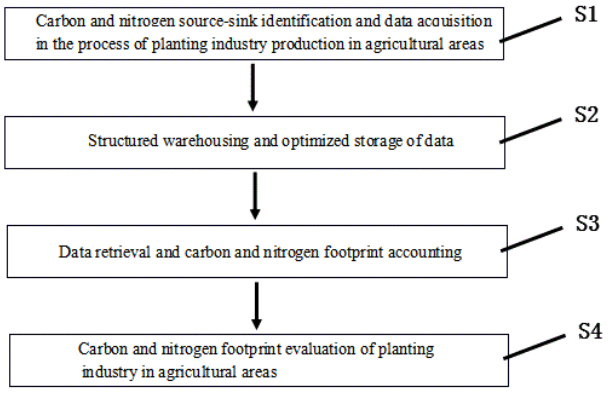
72: Yin Yan, Xi Fengming, Wang Jiaoyue, Bing Longfei, Hu Qinqin

33: CN 31: 202311348321.6 32: 2023-10-17

54: METHOD AND SYSTEM FOR EVALUATING CARBON AND NITROGEN FOOTPRINT OF PLANTING INDUSTRY IN AGRICULTURAL AREAS

00: -

The invention discloses a method and a system for evaluating carbon and nitrogen footprint of planting industry in agricultural areas, and relates to the technical field of environmental accounting, including the following steps: S1, carbon and nitrogen source-sink identification and data acquisition in the process of planting industry production in agricultural areas; S2, structured warehousing and optimized storage of data; S3, data retrieval and carbon and nitrogen footprint accounting; S4, carbon and nitrogen footprint evaluation of planting industry in agricultural areas. According to the technical scheme of the invention, by identifying the source-sink process of carbon and nitrogen of planting industry in agricultural areas, a standardized database of carbon and nitrogen of planting industry in agricultural areas is established, the input-cycle-output of carbon and nitrogen of planting industry in agricultural areas is accurately accounted, and the carbon and nitrogen emission and in-situ absorption capacity in the production process of planting industry in agricultural areas are quantitatively evaluated by using the accounting results.



21: 2024/00215. 22: 2024/01/05. 43: 2024/07/10

51: A61K

71: ACOUSIA THERAPEUTICS GMBH

72: HEYMANS, Sven, KOOL, Peter Jan Robert, DIEDERICHS, Julia Eva, DYHRFJELD-JOHNSEN, Jonas
33: EP 31: 22174123.4 32: 2022-05-18
54: AQUEOUS GEL COMPOSITION
00: -
The present invention discloses an aqueous gel composition which is useful for administration of pharmaceutically active agents, in particular for transtympanic administration of pharmaceutically active agents. The aqueous gel composition comprises - at least one first surfactant in an amount from 10 % to 30 % by weight, based on the total weight of the composition, - at least one second surfactant in an amount from 5 % to 20 % by weight, based on the total weight of the composition, - at least one alcohol in an amount from 5 % to 20 % by weight, based on the total weight of the composition, - and water in an amount of at least 30 % by weight, based on the total weight of the composition.

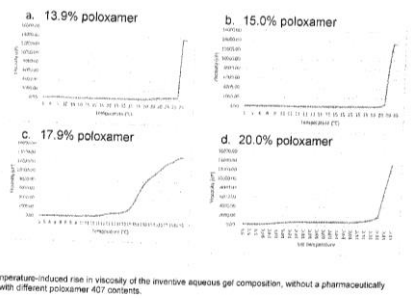
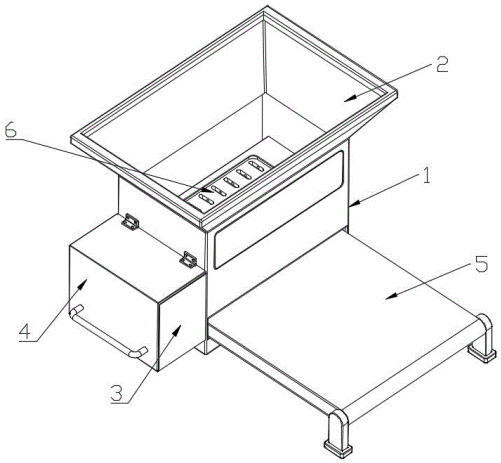


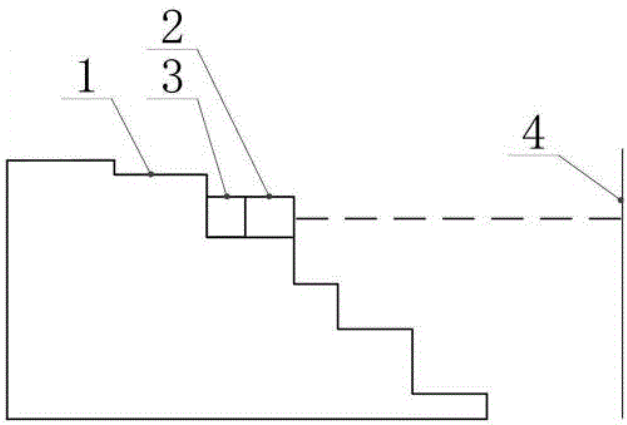
Fig. 1a-d: Temperature-induced rise in viscosity of the inventive aqueous gel composition, without a pharmaceutically active agent, with different poloxamer 407 contents.

21: 2024/00219. 22: 2024/01/05. 43: 2024/07/10
51: B07B
71: West Anhui University
72: Xiaojiao Huang, Tiantian Ji, Wenming Wang, Jiangdong Zhao, Ji Huang
33: CN 31: 202310114229.7 32: 2023-02-15
54: A VIBRATING SCREEN PROCESSING EQUIPMENT FOR TEA PRODUCTION WITH CONTROLLABLE MOTION RANGE
00: -
The invention relates to a vibrating screening processing equipment for tea production with controllable motion range, comprising a screening box, a storage cabinet is arranged on one side of the screening box, and a screening plate is arranged inside the box; the drive component is arranged in the locker, including a rotating rod, which is fixed connected with the output shaft of the motor, and the motor is fixed on one side of the locker; the rotating structure is connected with the screening box, and the rotating rod is rotated, which can drive the rotating structure action, drive the screening plate to vibrate along its length direction, and the adjusting structure is arranged on the rotating structure for adjusting the vibration amplitude of the screening plate; the conveying component is arranged in the screening box and placed under the screening plate and connected with the drive component for conveying the tea bar which falls to the bottom of the screening box to the outside of the screening box; the pneumatic assisted drop component is arranged on the screening plate and connected with a rotating rod to help the tea bar curled in the screening hole fall through the air flow.



21: 2024/00236. 22: 2024/01/08. 43: 2024/07/11
51: B66B
71: Guangdong Mechanical & Electrical Polytechnic
72: LI Zhongxing
54: METHOD AND SYSTEM FOR OBTAINING LOAD BRAKING DISTANCE OF ESCALATOR BASED ON BRAKING TEST
00: -
The invention provides a method for obtaining the load braking distance of the escalator based on the braking test and a system for obtaining the load braking distance of the escalator based on the braking test. In the method for obtaining the arbitrary load braking distance of the escalator, the no-load braking distance of the escalator is tested and the no-load braking distance S0 is obtained; the equivalent no-load kinetic energy E0 of the escalator is obtained; the braking distance of the escalator is calculated by the braking distance equation of any

load; in the braking distance equation of any load, Alpha is the escalator angle, Lambda1 is the load influence coefficient, m1 is the arbitrary load mass, and v is the running speed of the escalator under any load. The invention can realize the electronic measurement of the braking distance of the escalator. Compared with the traditional manual measurement method, the electronic measurement not only has high measurement accuracy and small error, but also can directly obtain the test result (braking distance) and is convenient and fast to use.

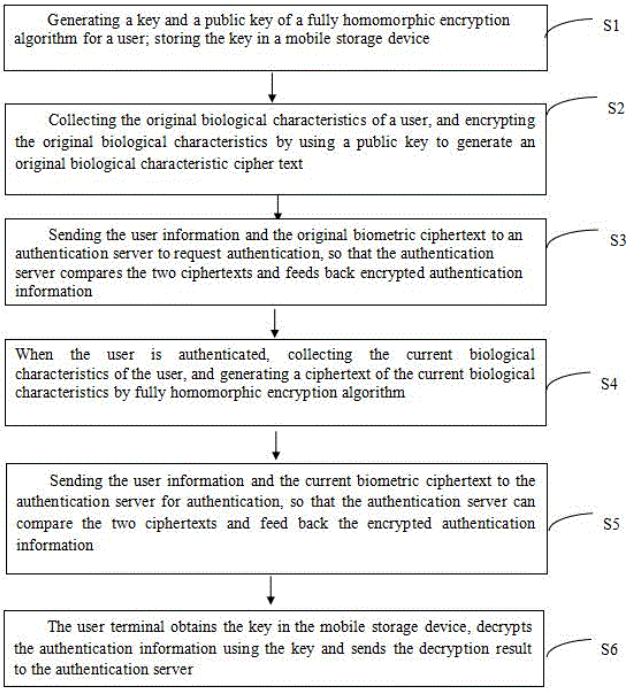


21: 2024/00237. 22: 2024/01/08. 43: 2024/07/11
51: H04L
71: Ningbo University of Finance and Economics
72: CHEN Zhigang

54: BIOLOGICAL CHARACTERISTIC AUTHENTICATION METHOD BASED ON FULL HOMOMORPHIC ENCRYPTION

00: -

The invention discloses a biological characteristic authentication method based on full homomorphic encryption, which comprises the following steps: generating a key and a public key for a user; collect the original biological characteristics of the user and generating the original biological characteristics ciphertext based on the public key; obtaining a registered user ID based on the authentication server; collecting the user ID to be authenticated and the current biological characteristics of the user and encrypting to generate the ciphertext of the current biological characteristics; check whether the current user ID to be authenticated is registered, and if so, perform biometric authentication; otherwise, the authentication is ended; authenticating original and current biometric ciphertext to obtain authentication information during biometric authentication; decrypt the authentication information to the authentication server using the key.



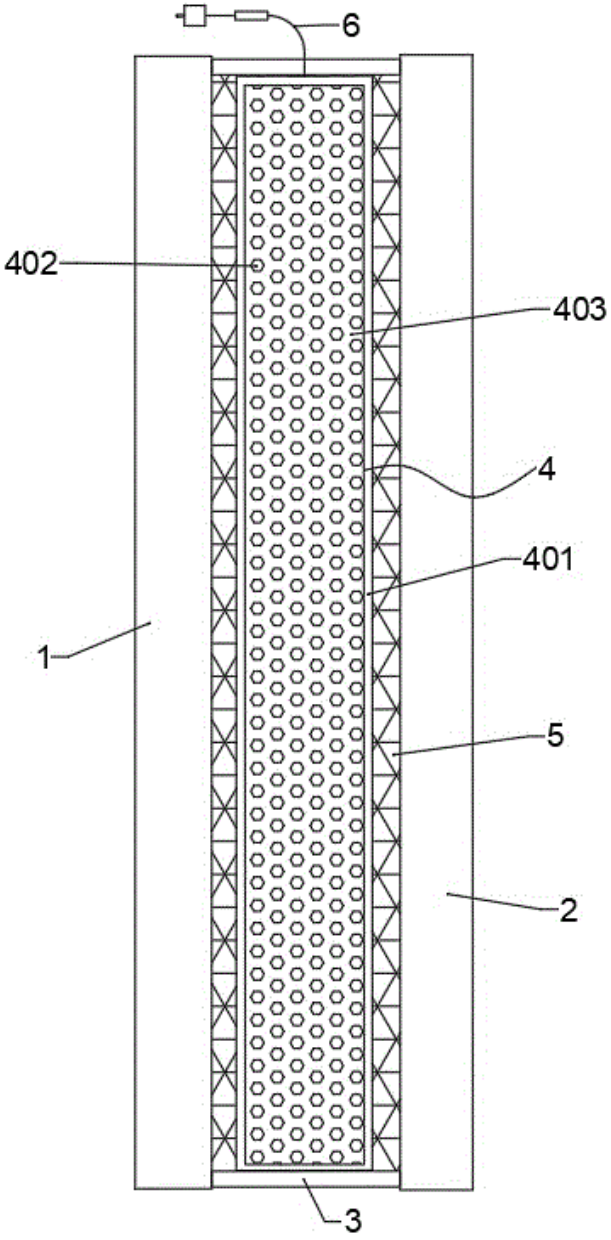
21: 2024/00238. 22: 2024/01/08. 43: 2024/07/11
51: E06B
71: Eugene (Shanghai) Intelligent Technology Co., Ltd.
72: Jirong Li
33: CN 31: 2023114247600 32: 2023-10-31

54: NEW TYPE OF ELECTROCHROMIC DOOR AND WINDOW

00: -

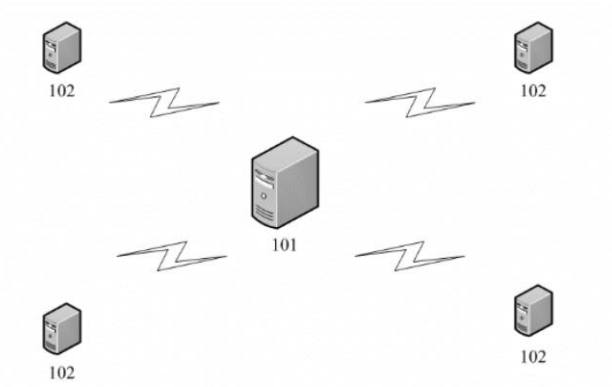
The invention discloses a new type of electrochromic door and window, comprising a first layer of transparent material, a second layer of transparent material, an electrochromic film and fixed frames used to fix the edges of each layer; the electrochromic film is located between the first layer of transparent material and the second layer of transparent material; an electrical control wire is connected with the electrochromic film, and the electrical control wire passes through the fixed frame and extends outside the fixed frame; the electrochromic film comprises an outer composite film, liquid crystal mixtures, and glues, and the outer composite film is filled with liquid crystal mixtures and glues; the first layer of transparent material is connected to the electrochromic film through adhesive layers; the second layer of transparent material is connected to the electrochromic film

through the adhesive layers; the adhesive layer is a transparent adhesive colloid. This device is convenient to use, and it can control the transparency of the doors and windows by connecting an external power supply through the electrical control wire.



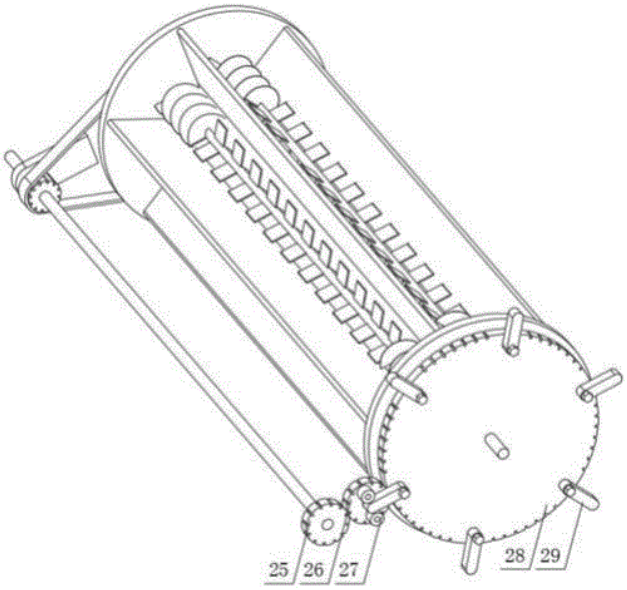
21: 2024/00240. 22: 2024/01/08. 43: 2024/07/11
51: H04L
71: Hunan University of Science and Engineering, SHANGHAI LIDA UNIVERSITY
72: Tang Yayuan, Cheng Wenzhi, Yang Jie, Huang Tangsen, Feng Junzhi

33: CN 31: 2023116838338 32: 2023-12-08
54: A METHOD, DEVICE, AND MEDIUM AIMED AT REDUCING LATENCY IN EDGE NODES BASED ON CLOUD COMPUTING
00: -
This invention discloses a method, device, and medium for reducing latency of edge node based on cloud computing. The method includes: after obtaining input instructions at the edge node, sending the input instructions, including an index identifier, to the cloud node; upon receiving the input instructions, the cloud node indexes the data packet based on the index identifier, sending the first data frame to the edge node if the data packet is the first one, or sending the second data frame to the edge node if the data packet is the second one; when the edge node receives the first data frame, determining graphics rendering instructions based on the first data frame; when the edge node receives the second data frame, finding cached data based on cache identifiers, and determining graphics rendering instructions based on the texture data in the second data frame and the graphic rendering instruction parameters, vertex data, and index data in the cached data. This invention can reduce data latency and enhance user experience.



21: 2024/00241. 22: 2024/01/08. 43: 2024/07/11
51: F27B
71: Taiyuan University of Technology
72: Yanchong YU, Wangwang MAO, Yan ZHOU, Lin MU
33: CN 31: 2023101665622 32: 2023-02-27
54: OPEN SINTERING APPARATUS AND SINTERING METHOD FOR SINTERING ORE
00: -
The invention discloses an open sintering apparatus and sintering method for sintering ore, which relates

to the technical field of sintering apparatus, including a pair of side plates. The middle part of the relative surface of a pair of side plates is provided with a turnover shaft, and the middle part of the turnover shaft is provided with a drum, several turnover plates are arranged on the outer ring surface of the drum, and a pair of fixed plates are arranged on the front and rear sides of the turnover shaft, the relative surfaces of the pair of side plates are respectively provided with the first conveying belt and the second conveying belt, the outer ring surface of the drum is equipped with several stirring shafts, and the middle part of each stirring shaft is equipped with a number of stirring paddles, and the back end of the stirring shaft is equipped with a notched gear disk, a fixed shaft is arranged between the right end of the fixed plate and the front side wall of the U-shaped plate, the front end of the fixed shaft is connected to the front end of several stirring shafts through the meshing mechanism, and the rear end of the fixed shaft is connected to the notched gear disk through the limiting mechanism. The invention is beneficial to ensure the sufficient stirring of the raw material in the sintering process, thereby effectively improving the sintering efficiency of the raw material.

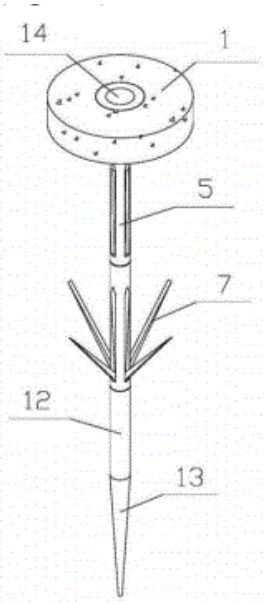


21: 2024/00242. 22: 2024/01/08. 43: 2024/07/11
51: E02D
71: Henan University of Urban Construction
72: ZHAO, Yuxia, LI, Yonglei, ZHAO, Caijie, JIA, Haipeng, WU, Wenlong, WANG, Yifan, ZHOU, Lu, ZHANG, Shaochun

54: ANTI-COLLAPSE REINFORCING DEVICE FOR REVETMENT

00: -

Disclosed is an anti-collapse reinforcing device for revetment, relating to the technical field of revetment reinforcing treatment. The reinforcing device includes pickets inserted into soil of the revetment at intervals; each picket has an anti-pull-out soil fixing part; an upper end of the picket is connected to a concrete foundation; and a plurality of limiting rods are fixedly arranged inside the concrete foundation. The purpose of fixing soil is achieved by the anti-pull-out soil fixing parts, and the anti-pull-out soil fixing parts have high anti-pull-out performance and can stabilize the soil of the revetment for long time. The anti collapse reinforcing device for the revetment provided by the present invention can reinforce the soil of the revetment, thus improving the vibration resistance and the impact resistance of the revetment and effectively solving the problem of revetment collapse.



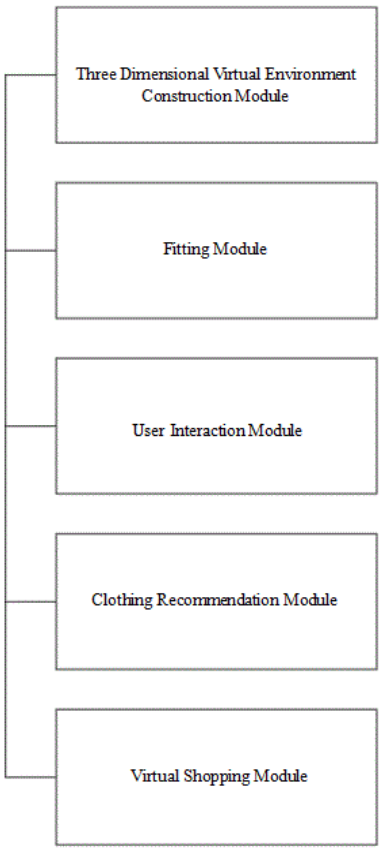
21: 2024/00243. 22: 2024/01/08. 43: 2024/07/11
51: G06Q
71: Yi Shi
72: Yi Shi
33: CN 31: 2023117575109 32: 2023-12-20

54: THREE DIMENSIONAL FITTING ROOM PLATFORM FOR ONLINE STORES

00: -

A three dimensional fitting room platform for online stores, comprising a three dimensional virtual

environment construction module, a fitting module, a user interaction module, a clothing recommendation module, and a virtual shopping module based on system architecture, wherein the three dimensional virtual environment construction module is used to create and render a realistic three dimensional virtual environment, and to send and feedback instructions to other modules through a TCP/IP secure transmission protocol based channel; the fitting module is used to load and simulate different styles of clothing in a three dimensional virtual environment; compared with prior art, the benefits of the invention are: the three dimensional fitting room platform for online stores of the invention and its implementation method can provide a realistic virtual fitting experience by integrating multiple functional modules and security measures, at the same time, it can optimize users' experience and improving purchase conversion rates. It can meet users' language needs from different countries and regions and protect the security of users' information.



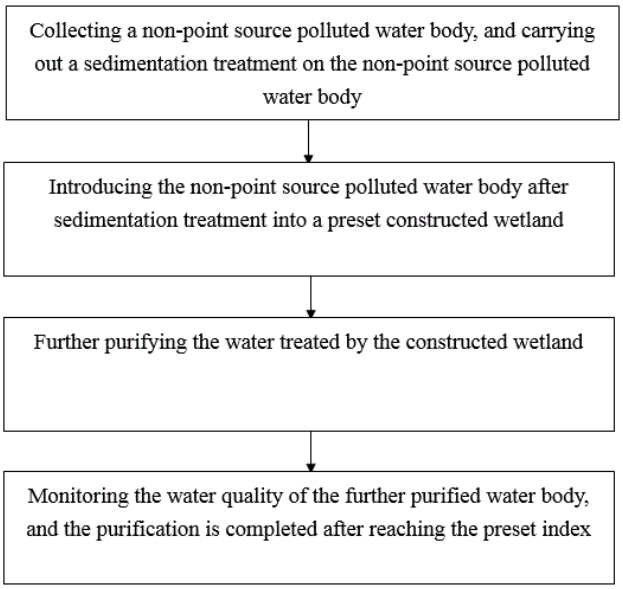
21: 2024/00244. 22: 2024/01/08. 43: 2024/07/11

51: C02F
71: Institute of Ecological Conservation and Restoration, Chinese Academy of Forestry, School of Architecture,Beijing Forestry University
72: LI Chunyi, LI Hui, YANG Si, MA Hua, ZHAN Yangying, TAN Yuechen, LUO Yinjing

54: METHOD FOR TREATING NON-POINT SOURCE POLLUTED WATER BASED ON ARTIFICIAL WETLAND RESTORATION

00: -

The invention relates to the technical field of polluted water treatment, and in particular to a method for treating non-point source polluted water based on artificial wetland restoration, which includes the following steps: collecting a non-point source polluted water body; introducing the non-point source polluted water body into a preset constructed wetland to obtain a first purified water body; treating the first purified water body to obtain a second purified water body, and monitoring the water quality of the second purified water body to complete the water treatment of the non-point source pollution. According to the invention, the constructed wetland is constructed at the non-point source pollution place to purify the water quality, so that the construction cost is low without energy consumption, the operation cost is low, and the non-point source polluted water body is friendly to the ecological environment.



21: 2024/00246. 22: 2024/01/08. 43: 2024/07/11
51: A61K
71: Yiming Ren

72: Yiming Ren

54: A TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING RAPID HEALING OF FRACTURE AND A PREPARATION METHOD THEREOF

00: -

The invention belongs to the technical field of traditional Chinese medicine composition, in particular to a traditional Chinese medicine composition for treating rapid healing of fracture and a preparation method thereof. The traditional Chinese medicine composition of the invention comprises safflower, peach nut, sapwood, radix paeoniae, dangshen, astragalus, olibanum, myrrh, radix angelicae, ground beeltle, drynaria rhizome, earthworm, Chinese liquorice, panax notoginseng, daemonorops draco, ligusticum chuanxiong hort, cassia twig, radix achyranthis bidentatae and eucommia ulmoides. It can not only treat the fracture, but also make the bone callus at the fracture site grow rapidly, which has a good effect on the detumescence of the early stage of the fracture, and can effectively treat the fracture and the complications such as liver and kidney function damage. The traditional Chinese medicine composition provided by the invention has no toxic side effects in the clinical treatment process, is safe and reliable, and can quickly relieve the pain of fracture patients and reduce the adverse reactions such as liver and kidney function damage caused by it. The traditional Chinese medicine composition of the invention not only has quick effect, but also requires simple raw materials, and is worthy of popularization and use.

21: 2024/00247. 22: 2024/01/08. 43: 2024/07/11

51: A61K

71: Yiming Ren

72: Yiming Ren

54: A TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING CAROTID ARTERY PLAQUE AND CARDIO-CEREBROVASCULAR STENOSIS AND A PREPARATION METHOD THEREOF

00: -

The invention belongs to the technical field of traditional Chinese medicine composition, in particular relates to a traditional Chinese medicine composition for treating carotid artery plaque and cardiovascular and cerebrovascular stenosis and a preparation method thereof. The traditional Chinese medicine composition comprises raw materials: Salvia miltiorrhiza, gastrodia elata, raw hawthorn and panax notoginseng; the preparation method includes the following steps: 1) the selected weight of salvia miltiorrhiza, gastrodia elata, raw hawthorn and panax notoginseng were taken respectively, washed and dried, then crushed into particles by ultrasonic and mixed to obtain the mixture; 2) Add 20-40 times the total weight of the mixture of water, fry, strain out to obtain liquid A; 3) Add 10-20 times the total weight of the residue to the water again, fry it, and filter out to obtain liquid B; 4) It is obtained by combining liquid A and liquid B. The traditional Chinese medicine in the invention can cooperate with each other and act on the lesion together to ablate plaque and improve carotid atherosclerosis; clinical experiments show that the Chinese medicine composition has good therapeutic effect on moderate and severe carotid plaque, and is not easy to relapse after cure, without toxic side effects.

21: 2024/00248. 22: 2024/01/08. 43: 2024/07/11

51: A61K

71: Ziheng Wang

72: Ziheng Wang

54: A COMPOSITION OF CHINESE MEDICINE FOR EXTERNAL USE FOR TREATING BURNS AND SCALDS AND A PREPARATION METHOD THEREOF

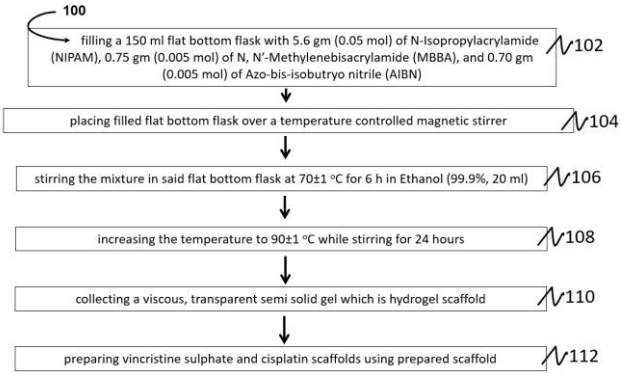
00: -

The invention belongs to the technical field of traditional Chinese medicine compositions. In particular, the invention relates to a composition of Chinese medicine for external use for treating burns and scalds and a preparation method thereof. The external Chinese medicine composition consists of the following raw materials by weight: 180-190 portions of grilled sesame oil, 10-20 portions of shell-broken pine pollen; the grilled sesame oil is obtained by high temperature extraction of sesame oil from Yawangshi, and has medicinal effect. The composition of Chinese medicine for external use for treating burns and scalds and a preparation method thereof prepared by the invention is suitable for different degrees of burns and scalds, has no toxic side effects, high safety, fast effect, good therapeutic effect, can quickly eliminate the pain, redness and other complications caused by burns and scalds and

bedsores, and prevent the expansion of burns and scalds or bedsores, infection and suppuration, and promote the rapid healing of burns and scalds or bedsores without leaving scars.

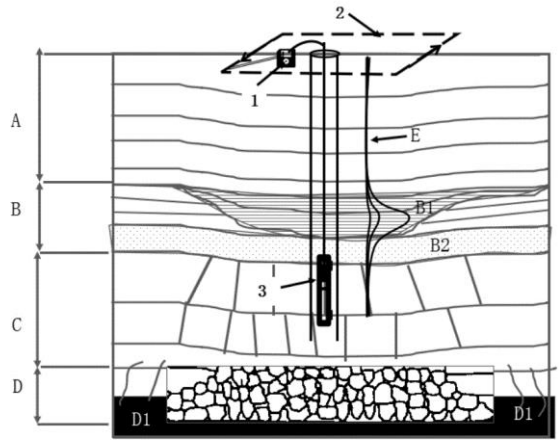
21: 2024/00249. 22: 2024/01/08. 43: 2024/07/11
51: A61K
71: Jian Zhou
72: Jian Zhou, Zhenyu Cha
33: CN 31: 2023114975326 32: 2023-11-11
54: CHINESE HERBAL FORMULA FOR DEWORMING AND PREPARATION METHOD THEREOF
00: -
The invention discloses a Chinese herbal formula for deworming and preparation method thereof, comprising the following raw materials in parts by weight: 40 to 60 parts of Sophora flavescens, 10 to 30 parts of Artemisia annua, 5 to 15 parts of Syringa, 30 to 50 parts of Perilla, 5 to 15 parts of Leech, 20 to 40 parts of Dried Ginger, 10 to 20 parts of Mint and so on. The invention contains various traditional Chinese medicine ingredients that can effectively repel pests such as mosquitoes, centipedes, leeches, etc., improve indoor environment, reduce the breeding of indoor insects, purify the air, and eliminate odors. At the same time, raw materials such as Perrin and Magnolia also have the function of aromatizing and humidifying, dispersing and opening the orifices, which has a certain health effect when placed indoors on the human body. The invention is also applicable to itching and swelling caused by insect bites such as mosquitoes and centipedes; at the same time, the invention also has significant effects in relieving itching, anti-inflammatory, antibacterial, analgesic, and anti-inflammatory effects, and has auxiliary therapeutic effects on athlete's foot itching and other psoriasis.

21: 2024/00250. 22: 2024/01/08. 43: 2024/07/11
51: A61K
71: Dr Arun Kumar, Dr Narendra Singh Jadon, Dr Rashmi Saini, Dr. Sameena Mehtab, Dr. M.G.H. Zaidi
72: Dr Arun Kumar, Dr Narendra Singh Jadon, Dr Rashmi Saini, Dr. Sameena Mehtab, Dr. M.G.H. Zaidi
54: A METHOD FOR SYNTHESIZING MACROPORUS POLY (N-ISOPROPYL ACRYALAMIDE) HYDROGEL SCAFFOLD FOR CHEMOTHERAPY TREATMENT
00: -
The present invention relates to a method for synthesizing macroporus poly (N-isopropyl acryalamide) hydrogel scaffold for chemotherapy treatment. This invention introduces hydrogel scaffolds loaded with vincristine and cisplatin for treating transmissible venereal tumors (TVT) in canines. The method involves synthesizing macroporous poly (N-isopropyl acryalamide) hydrogel scaffolds, characterizing drug linkages, and assessing drug release dynamics. Experiments were conducted to evaluate oncolytic effects on TVT, hemato-biochemical changes post-drug administration, and apoptotic effects on HeLa cells. FTIR spectra confirmed drug-scaffold linkages, while scanning electron microscopy depicted drug-loaded scaffold morphologies. Voltammetry revealed drug release rates. Results indicate vincristine scaffolds induced faster and superior tumor regression in comparison to cisplatin or individual drug treatments. This invention offers an efficient and safer approach for TVT treatment, minimizing adverse effects on healthy cells. Vincristine-loaded hydrogel scaffolds emerge as a promising alternative for veterinarians, showcasing improved efficacy in combating TVT in canines.



21: 2024/00251. 22: 2024/01/08. 43: 2024/07/11
51: G01V
71: China University of Mining and Technology
72: SU, Benyu, YU, Jingcun, WANG, Yangzhou, TANG, Yu, HUANG, Maolin, LI, Beibei, TAN, Dengpan, QIAN,Meiqi, SUN, Tongyi
54: GROUND-BOREHOLE TRANSIENT ELECTROMAGNETIC METHOD FOR MONITORING FORMATION PROCESS OF SEPARATED LAYER WATER IN COAL MINING

00: -
The invention discloses a ground-borehole transient electromagnetic method for monitoring the formation process of separation layer water in coal mining, the equipment used in the method includes an industrial and mining host, a transmitter, a transmission wireframe, and a magnetic probe; the transmitter is connected to the transmission wireframe, and the transmitter and the magnetic probe are respectively connected to the industrial and mining host through a lead; the high-power coils are laid on the ground and the probe is placed into the borehole to receive the axial transient electromagnetic field, achieving the purpose of detecting the distribution of geological resistivity around the borehole. This method can analyze the formation process of separation layer water, obtain the occurrence location of separation layer water, and the accumulation scale of separation layer water by comparing the results of ground-borehole transient electromagnetic detection before, during, and after excavation; when the receiving sensors are close to geological anomalies, with increased signal strength and resolution in response to anomalies, sensitively detecting the spatial position of geological anomalies around the borehole. The method provides reliable geological data for prevention and control of mine water to ensure the safety of coal mining.



21: 2024/00284. 22: 2024/01/09. 43: 2024/07/11
51: A23L
71: Xinjiang Agricultural Vocational Technical College
72: XU Jian, SHI Xiuhua, TAO Jinhua, MA Wenpeng, DANG Jianlei, HAN Xiaopeng, ZHOU Yong

54: PROCESSING METHOD FOR INACTIVATING ALLIINASE ACTIVITY IN GARLIC

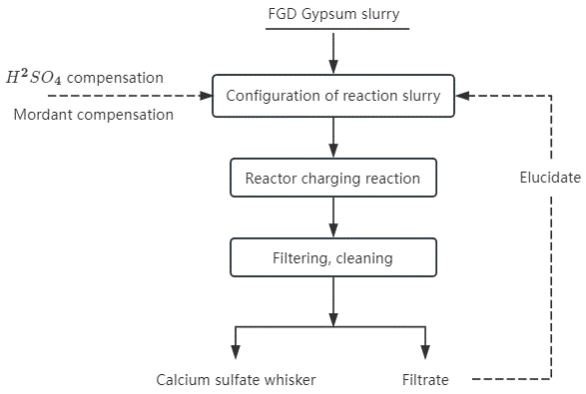
00: -
The invention discloses a processing method for inactivating alliinase activity in garlic, and belongs to the technical field of deep processing of agricultural products. The processing method for inactivating alliinase activity in garlic includes the following steps: performing controlled atmosphere storage treatment on garlic raw materials to obtain garlic intermediates, and then mixing the garlic intermediates with a blocking agent and pulping to obtain garlic slurry. The controlled atmosphere storage treatment selected by the invention has the characteristics of large capacity, low cost, easy control of parameters, stable cell activity and the like. Although the high CO2 concentration during storage led to a slight increase in garlic decay rate, considering the contribution of high CO2 concentration to the inhibition of alliinase activity, the influence of decay can be ignored.

21: 2024/00285. 22: 2024/01/09. 43: 2024/07/11
51: C30B
71: Henan University of Urban Construction
72: WANG Xiao, JIN Biao, ZHANG Xiaoting, ZHANG Jianwu, XU Zhuoyue, LUO Qing

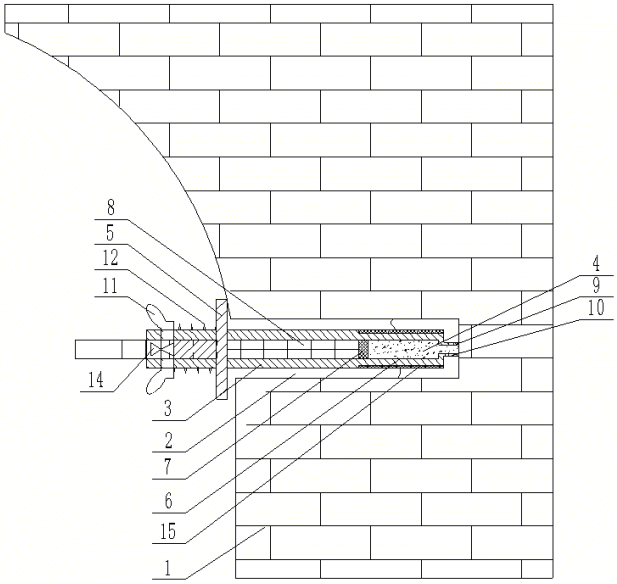
54: METHOD FOR PREPARING CALCIUM SULFATE WHISKERS WITH HIGH ASPECT RATIO

00: -
The invention relates to a method for preparing calcium sulfate whiskers with high aspect ratio, which comprises the following steps: collecting and clarifying the filtrate for hydrothermal preparation of calcium sulfate whiskers from desulfurized gypsum, directly using the clarified liquid for the preparation of the next reaction slurry, adjusting the pH of the reaction slurry to 4-10, and then compensating 20-40 weight percentage of original inorganic mesogenic agent and 15-40 weight percentage of sulfuric acid into the reaction slurry; under the condition that the number of times of circulating the filtrate does not exceed 40 times, the quality of calcium sulfate whiskers prepared by hydrothermal method with desulfurized gypsum as raw material has not obviously decreased, and its diameter distribution is uniform, and the surface crystallization is good, and the conversion rate of desulfurized gypsum has also been improved. The recycling of

filtrate not only avoids the environmental pollution caused by its discharge, but also reduces the consumption of mordant and sulfuric acid, which is of great significance to environmental protection and the reduction of production cost of calcium sulfate whiskers prepared from desulfurized gypsum.

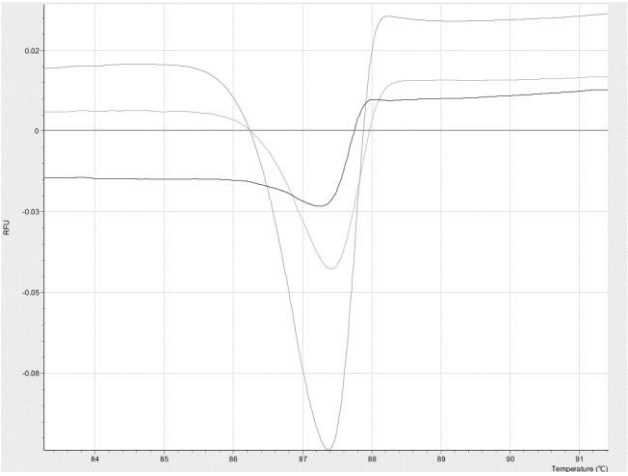


21: 2024/00286. 22: 2024/01/09. 43: 2024/07/11
51: E21D
71: Yunlong Lake Laboratory of Deep Underground Science and Engineering, CHINA UNIVERSITY OF MINING AND TECHNOLOGY
72: HU Chengguo, LI Xiaozhao, LV Ming, MENG Bo, YIN Qian, JIA Bangguo, ZHAO Nan, WU Yun, HU Lihua, ZHAO Zhenlong
54: GROUTING AND PRE-TIGHTENING INTEGRATED TEST ANCHOR ROD
00: -
The invention discloses a grouting and pre-tightening integrated test anchor rod, which includes a simulated roadway surrounding rock and an anchor rod main body, where an anchor rod drilling hole is arranged on the simulated roadway surrounding rock, one end of the anchor rod main body is located in the anchor rod drilling hole, and the other end of the anchor rod main body is located outside the anchor rod drilling hole; the anchor rod main body includes an anchor rod body, where the anchor rod body is filled with an anchoring agent, an injection part for injecting the anchoring agent is installed in the anchor rod body, a washer is connected with the anchor rod body in a circumferential sliding way, the washer is located outside the anchor rod drilling hole, and a pre-tightening part is circumferentially installed at one end of the anchor rod body located outside the anchor rod drilling hole, and the pre-tightening part is used for adjusting the pre-tightening force between the washer and the simulated roadway surrounding rock. The invention has the advantages of simple structure and convenient installation, can effectively solve the problems existing in the existing model test using embedded anchor rods, can conveniently and accurately apply anchoring agent and pre-tightening force to the anchor rods, and is particularly suitable for model tests of underground projects such as roadways and tunnels.



21: 2024/00287. 22: 2024/01/09. 43: 2024/07/11
51: C12Q
71: SHANGHAI UNIVERSITY OF MEDICINE & HEALTH SCIENCES
72: PENG Nanqiu, HE Li, WANG Li, CHEN Zhenghu
54: METHOD FOR DIAGNOSING THRA GENE MUTATION WITH HIGH SENSITIVITY
00: -
The invention relates to a method for diagnosing THRA gene mutation with high sensitivity, and belongs to the fields of biotechnology and medicine. Design a pair of wild-type primers at both end of that mutation site of THRA gene, and designing a pair of mutation primers and a pair of universal primers at the mutation site; the invention designs a wild-type primer, a mutant primer and a universal primer of THRA exon 3 to amplify the wild-type template and the mutant fragment respectively, and then uses the wild-type primer and the universal primer to simultaneously perform PCR amplification on the two mutant fragments to amplify the corresponding mutant template; wild-type templates and mutant

templates were mixed in different proportions and distinguished by HRM method. Compared with the prior art, the method has the advantages of high specificity, high sensitivity, convenience and rapidity; But also has higher flux and lower one-time cost.

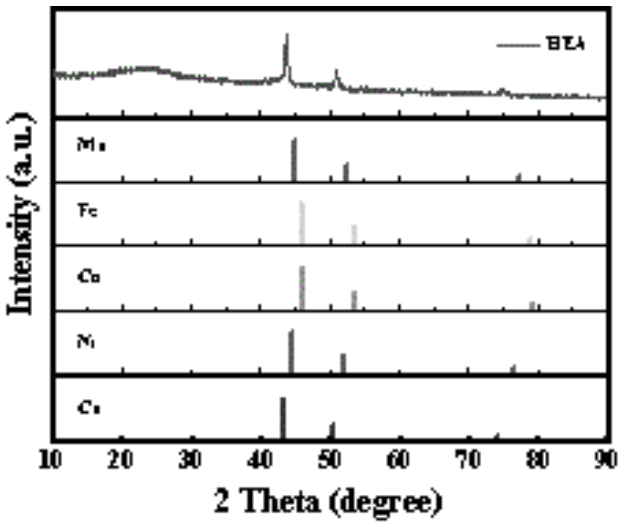


21: 2024/00288. 22: 2024/01/09. 43: 2024/07/11
51: C25B
71: Taiyuan University of Technology
72: Zhenxin ZHAO, Xiaomin WANG, Jiajun CHEN, Huanglin DOU, Huijun LI

54: A PREPARATION METHOD OF CARBON-BASED LOADED HIGH-ENTROPY METAL SALT COMPOSITES

00: -

The present invention discloses a preparation method of carbon-based loaded high-entropy metal salt composites, which belongs to the field of composites technology. The present invention uses microwave heating and subsequent Joule heating. Based on the composition design concept of high-entropy metal salt, the reaction mechanism of microwave heating is used. The mixed solution of five metal salts and graphite oxide paste is used as raw material, and the microwave synthesis method is used to evaporate the water (solvent) of the solution to form a phase separation structure. In the subsequent high-temperature firing of the Joule heating furnace, various components are heated evenly, the liquid metal phase is precipitated by heating, and the subsequent rapid cooling crystallizes into a solid phase. A single high-entropy alloy phase was synthesized in a hydrogen atmosphere, and the synthesized phase in an air atmosphere was a typical spinel phase. The structure and microstructure of the samples prepared by this method were studied, and the results show that the microstructure of the alloy is a typical face-centered cubic structure; the various components of the alloy are evenly distributed, and the proportion is close to 1; the high-entropy oxide is a typical spinel structure.



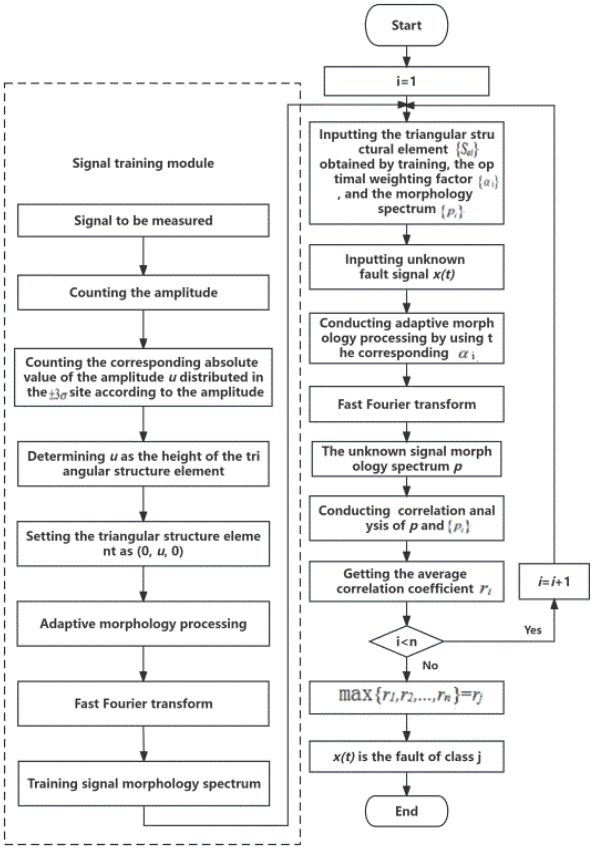
21: 2024/00289. 22: 2024/01/09. 43: 2024/07/11
51: G01M
71: Jiamusi University
72: Qingchao DONG

54: A DIAGNOSIS METHOD OF ROLLING BEARING FAULT BASED ON ADAPTIVE MATHEMATICAL MORPHOLOGY

00: -

The invention relates to a diagnosis method of rolling bearing fault based on adaptive mathematical morphology, which belongs to the field of fault diagnosis technology. It includes the following steps: correlation analysis and rolling bearing fault diagnosis. The invention adopts the above-mentioned diagnosis method of rolling bearing fault based on adaptive mathematical morphology, which has significant advantages such as amplitude non-offset and non-attenuation. The morphology opening operation and morphology closing operation are allocated in a more reasonable proportion, which effectively improves the feature extraction ability of the signal. Combined with the spectral correlation analysis method, the fault type and fault grade of the unknown signal are identified according to the cross-correlation coefficient of the unknown signal to be tested and the trained signal. The diagnosis method in this paper can not only identify different types of

faults, but also identify faults with different damage levels. Compared with traditional methods, it has higher recognition rate and reliability.

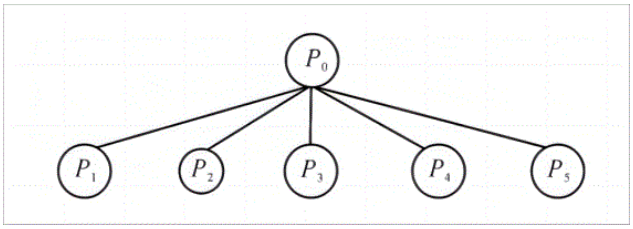


21: 2024/00290. 22: 2024/01/09. 43: 2024/07/11
51: G06F
71: Jiamusi University
72: Qingchao DONG

54: A SIMULATION METHOD OF AUTOMATIC CONTROL MODEL BASED ON MATHEMATICAL CALCULATION

00: -

The invention provides a simulation method of automatic control model based on mathematical calculation, which belongs to the field of mathematical calculation technology. Determining the number of parent equipment and sub-equipment in the automatic control model, using the parent equipment to dynamically control the sub-equipment, and determining the automatic control model; introducing the mathematical calculation into the automatic control model to realize the design of the automatic control model based on mathematical calculation, and calculating the fitness of the automatic control model. Conducting the simulation experiment on the automatic control model, and analyzing the improvement of the communication performance and stability of the mathematical calculation automatic control model through the simulation experiment. The invention can optimize its scheduling to make the automatic control model more orderly in practical work and play a better performance. The device can support automation in many jobs, so the quality and efficiency are effectively improved, which makes the model more widely used in mechanical equipment.

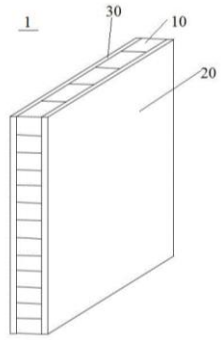


21: 2024/00291. 22: 2024/01/09. 43: 2024/07/11
51: E04B
71: Henan University of Urban Construction
72: ZHAO, Jin, WANG, Yi, WU, Hairong, MA, Lin, WANG, Lizhi, WU, Qiong, QU, Songzhao, YOU, Peibo, GUO, Junheng, GUO, Pinggong, XUE, Na, MA, Zhengwei, ZHENG, Chao

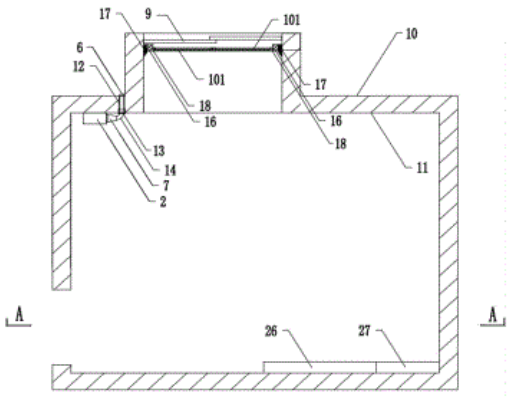
54: ASSEMBLED WALL

00: -

The present invention discloses an assembled wall, and relates to the technical field of building walls. The assembled wall includes a brick layer, and an inner wall board and an outer wall board which are fixedly arranged on two side surfaces in a thickness direction of the brick layer, respectively; the brick layer includes a plurality of wall bricks, each wall brick has a first positioning portion on two side surfaces in a length direction of the brick layer and a second positioning portion on two side surfaces in a height direction of the brick layer, two adjacent first positioning portions on two adjacent wall bricks in the length direction of the brick layer can be connected, and two adjacent second positioning portions on two adjacent wall bricks in the height direction of the brick layer can be connected.



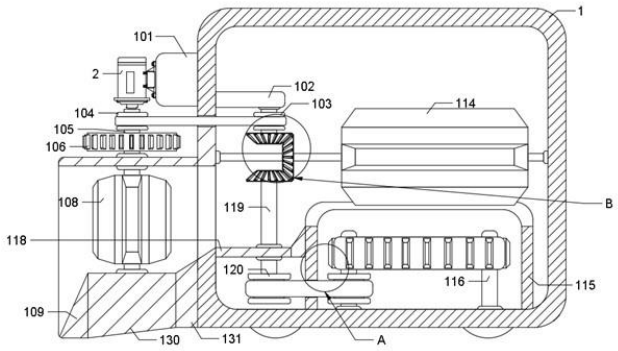
21: 2024/00292. 22: 2024/01/09. 43: 2024/07/11
51: F25D
71: Weimin Construction Technology Development (Guangdong) Co., Ltd.
72: CHEN, Chun, CHEN, Zezhao
54: COOLING AND ELECTRICAL ENERGY STORAGE DEVICE FOR BEDROOM OF APARTMENT
00: -
Disclosed is a cooling and electrical energy storage device for a bedroom of an apartment. The device includes a solar cell panel, an exhaust fan, a refrigerator, an air purifier, a first switch, a second switch, a third switch, and a mobile power supply, wherein the exhaust fan is mounted on an interior wall of a room; an air inlet of the exhaust fan is communicated to an inner space of the room; and an exhaust outlet of the exhaust fan is communicated to an outer space of the room. The exhaust fan can work to extract hot air inside the room to the outside; the refrigerator can work to reduce a temperature inside the room; the air purifier can work to purify air inside the room; the solar cell panel is mounted at a position close to glass of an aluminum alloy window in the room.



21: 2024/00294. 22: 2024/01/09. 43: 2024/07/11
51: A61K
71: Yanwei Dou
72: Yanwei Dou
33: CN 31: 2023117319899 32: 2023-12-16
54: A FORMULA FOR TREATING BONE HYPERPLASIA AND PREPARATION METHOD THEREOF
00: -
The invention discloses a formula for treating bone hyperplasia and a preparation method thereof, which includes the following components by weight:2-5 parts of Codonopsis pilosula, 1-2 parts of Clematis, 20-30 parts of Arisaema elephas, 2-3 parts of Codonopsis pilosula and Radix Aconiti Kusnezoffii 1-1.5 servings.The invention is composed of pure traditional Chinese medicine components such as Codonopsis pilosula, Clematis, Arisaema elephas, Codonopsis pilosula and Radix Aconiti Kusnezoffii. The above-mentioned medicines have reasonable composition, low dosage, green and environmental protection, simple operation and no side effects.The above formula can effectively treat the symptoms of bone hyperplasia, avoid recurrence, and achieve better therapeutic effects.

21: 2024/00299. 22: 2024/01/09. 43: 2024/07/11
51: A01D
71: SHAANXI ACADEMY OF FORESTRY
72: ZHANG, Xitang
54: ARBOR SEED COLLECTION DEVICE
00: -
The present invention discloses an arbor seed collection device. The device comprises a collection box and a motor installed on the top of one side. A first mounting plate is fixedly connected outside one

side of the collection box, the motor is fixedly installed at one side of the first mounting plate away from the collection box, a second mounting plate is fixedly connected at one side of an inner wall of the collection box, and a first guide plate is provided. The device is pushed by a handle, and a first drive plate is driven by the motor to collect seeds. A water tank is provided, and rotten seeds, leaves and high-quality seeds are screened by soaking in the water tank.

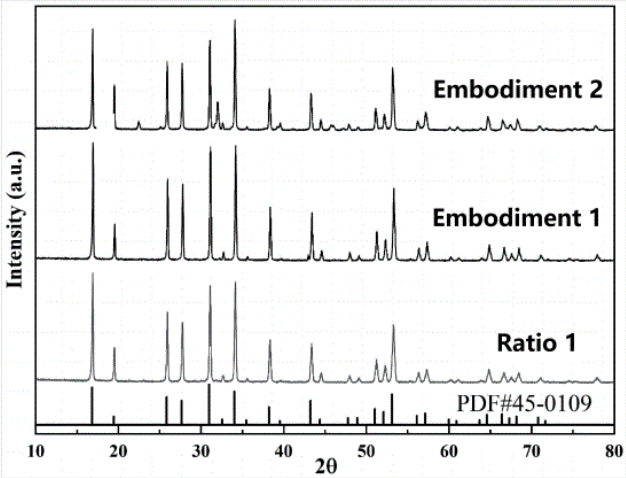


21: 2024/00300. 22: 2024/01/09. 43: 2024/07/11
51: A23L
71: HUNAN AGRICULTURAL UNIVERSITY
72: DENG, Fangming, ZHAO, Lingyan, QIN, Shuangxia
33: CN 31: 2023103633700 32: 2023-04-07
54: SEASONING CHILI SAUCE FERMENTED BY LACTIC ACID BACTERIA AND PREPARATION METHOD THEREFOR
00: -
The present invention belongs to the technical field of fermented food, and provides a seasoning chili sauce fermented by lactic acid bacteria. The sauce includes the following raw materials: chili, garlic, ginger, salt, white sugar, a yeast extract, a thick broad-bean sauce, a Lactobacillus plantarum fermentation broth, tea oil and natural spices. The present invention further provides a preparation method of the seasoning chili sauce, the raw materials are inoculated with Lactobacillus plantarum for fermentation to generate a good fermentation flavor, and better fermentation quality is achieved on the basis of shortening a fermentation period; the tea oil is used for preservation, so that air is isolated, an anti-oxidation effect is achieved, and long-term preservation of the fermented chili sauce blank is realized; stir-frying and conditioning sterilization further ensure the flavor and sensory quality of the seasoning chili sauce.

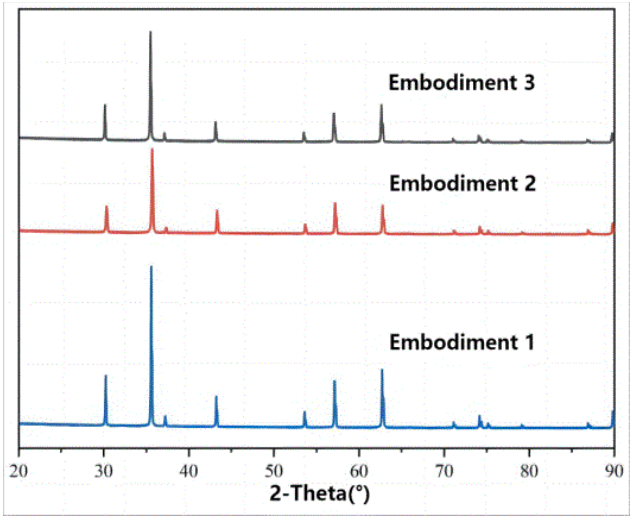
21: 2024/00301. 22: 2024/01/09. 43: 2024/07/11
51: C02F
71: HEBEI YANG KIM ENVIRONMENT TECHNOLOGY CO., LTD
72: MI, Qiuju, CHENG, Wuqun, WANG, Manying, BIAN, Yuming, ZHEN, Lipeng, PANG, Di, MI, Yong, LIU, Yifan, CHEN, Dong, ZHANG, Yuling, ZHAO, Kai
33: CN 31: 202310967064.8 32: 2023-08-03
54: WATER BODY PURIFICATION APPARATUS FOR RURAL LANDSCAPE TREATMENT
00: -
The present invention relates to a water body purification apparatus for rural landscape treatment. The apparatus includes a cultivation pot, a planning plate, etc., where the planning plate is detachably connected to the cultivation pot. By cultivating aquatic plants on the planning plate and erecting the cultivation pot modularly, pits having different areas are covered. An aeration pipe extracts water at different depths from the pit and sprays the water to a water surface. According to the present invention, by modularizing all water body purification units, modules are flexibly assembled according to different areas of pits, and a large space is reserved between water body purification unit modules. Accordingly, the situation that a water body purification module covers a water body, so that the aquatic plants in the water body decay in the absence of photosynthesis, leading to secondary environmental pollution is effectively avoided.

21: 2024/00333. 22: 2024/01/10. 43: 2024/07/12
51: C04B
71: Taiyuan University of Technology
72: Yongzhen WANG, Shaoxiong HAN, Xiaomin WANG
33: CN 31: 2023101918344 32: 2023-03-02
54: A HIGH-ENTROPY GARNET SOLID-STATE ELECTROLYTE CERAMIC AND ITS PREPARATION METHOD AND APPLICATION
00: -
The invention provides a high-entropy garnet solid-state electrolyte ceramic and its preparation method and application, which relates to the field of advanced ceramics and energy storage technology. The high-entropy garnet solid-state electrolyte ceramic provided by the invention has a chemical

formula of Li6.2La3(Zr0.2Hf0.2Ti0.2Nb0.2Ta0.2) 2O12. The high-entropy garnet solid-state electrolyte ceramic provided by the invention has excellent air stability and can improve the cycle stability and rate performance of the solid-state batteries.

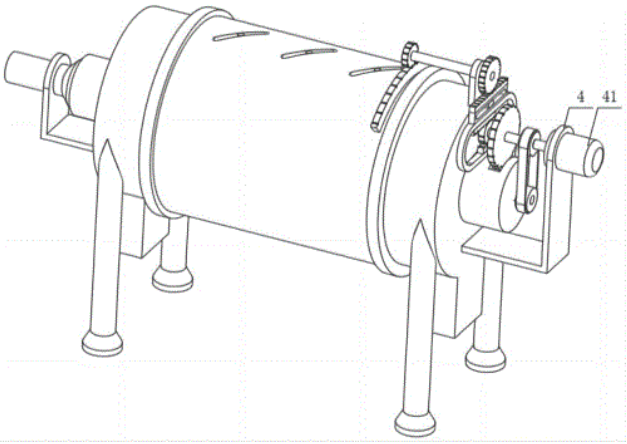


21: 2024/00334. 22: 2024/01/10. 43: 2024/07/12
51: A61F
71: Taiyuan University of Technology
72: Yongzhen WANG, Zhengyan WANG, Yanlan ZHANG, Xiaomin WANG
33: CN 31: 2023101598859 32: 2023-02-22
54: A HIGH-ENTROPY SPINEL ABSORBING CERAMIC MATERIAL AND ITS PREPARATION METHOD
00: -
The invention provides a high-entropy spinel absorbing ceramic material and its preparation method, which relates to the technical field of absorbing materials. The high-entropy spinel absorbing ceramic material provided by the invention has a chemical formula of (Mgx Coy Niz Cum Znn) Fe2O4, x is 0.2~0.25, y is 0.11~0.2, z is 0.13~0.23, m is 0.2~0.25, n is 0.2~0.25. The invention greatly improves the electromagnetic wave loss ability of the material through the high entropy effect and the inherent cation exchange effect of the spinel material, and it can also improve the impedance matching of the material under the premise of maintaining the single-phase material by controlling the metal element content. The high-entropy spinel absorbing ceramic material provided by the invention has a wide absorption frequency band and a high absorption capacity.

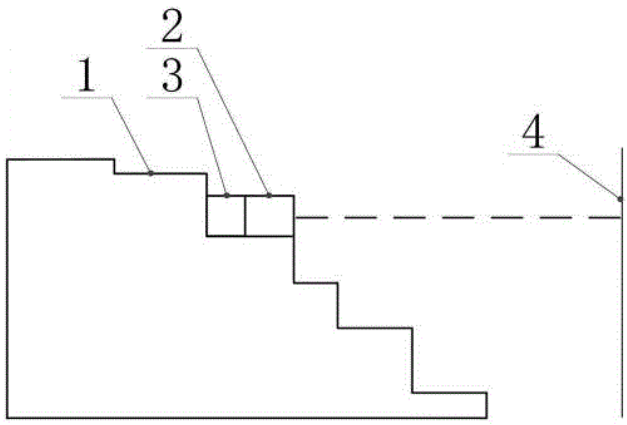


21: 2024/00335. 22: 2024/01/10. 43: 2024/07/12
51: C02F
71: Taiyuan University of Technology
72: Yan ZHOU, Jianlong LI, Lin MU, Yanchong YU, Huayun DU, Lifeng HOU
33: CN 31: 2023102958584 32: 2023-03-24
54: A SOLID WASTE WET SEPARATION EQUIPMENT AND SEPARATION METHOD THEREOF
00: -
The present invention discloses a solid waste wet separation equipment and separation method thereof, which relates to the field of solid-liquid separation technology. Including a cylinder, wherein a fixed cylinder is provided in the middle of the right wall of the cylinder, an inner cylinder is provided in the cylinder, and a sludge discharge cylinder is provided at the right end of the inner cylinder; the inner cylinder is provided with a hollow rotating shaft, and the middle part of the outer ring surface of the hollow rotating shaft is provided with a screw conveyor; the middle part of the outer side wall of the fixed cylinder is inserted with a fixed shaft, the fixed shaft is concentrically arranged in the hollow rotating shaft, the left end part of the fixed shaft extends to the right below the circular through hole, and the left section part and the middle section part of the fixed shaft are provided with screw blades; the outer ring surface of the cylinder is sheathed with an outer cylinder, the outer cylinder is connected to the inner cylinder via a limit assembly, a joint shaft is inserted in the upper part of the right side wall of the cylinder, and the joint shaft is connected with the outer cylinder, the hollow rotating shaft and the fixed shaft in turn through the transmission mechanism.

The present invention can not only effectively improve the screw extrusion effect of the screw conveyor, but also improve the conveying efficiency of the solid waste containing liquid.

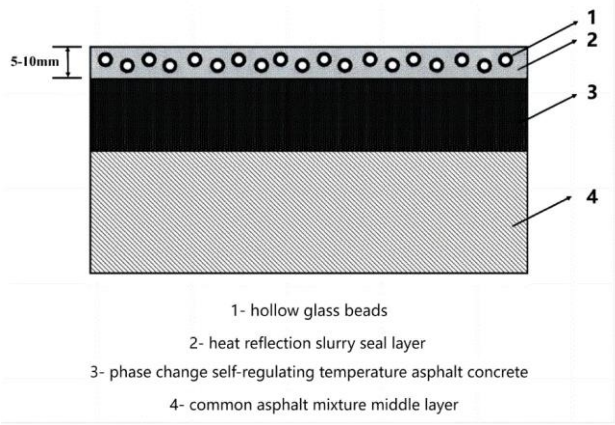


21: 2024/00336. 22: 2024/01/10. 43: 2024/07/12
51: B66B
71: Guangdong Mechanical & Electrical Polytechnic
72: HUANG Guojian, LI Zhongxing
54: METHOD AND SYSTEM FOR OBTAINING EQUIVALENT NO-LOAD KINETIC ENERGY OF ESCALATOR BASED ON LOAD BRAKING
00: -
The invention provides a method for obtaining equivalent no-load kinetic energy of escalator based on load braking and a system for obtaining equivalent no-load kinetic energy of escalator based on load braking. In the escalator equivalent no-load kinetic energy obtaining method, the escalator is subjected to no-load braking test and at least one on-load braking test; acquiring a no-load braking distance S0 of a no-load braking test, acquiring a loaded braking distance S1 of a loaded braking test and acquiring a corresponding load mass m1; calculate the equivalent no-load kinetic energy of escalator through equation E0 = ((0.5m1.v(squared).So+(m1.g.sin(alpha).S0.S1))/((Lambda)1.S1)-S0)) ; where Alpha is the escalator angle, Lambda1 is the load influence coefficient, m1 is the mass of any load, and v is the running speed of the escalator under any load. The invention can realize the electronic measurement of the braking distance of the escalator. Compared with the traditional manual measurement method, the electronic measurement not only has high measurement accuracy and small error, but also can directly obtain the test result (braking distance), which is convenient and fast to use.

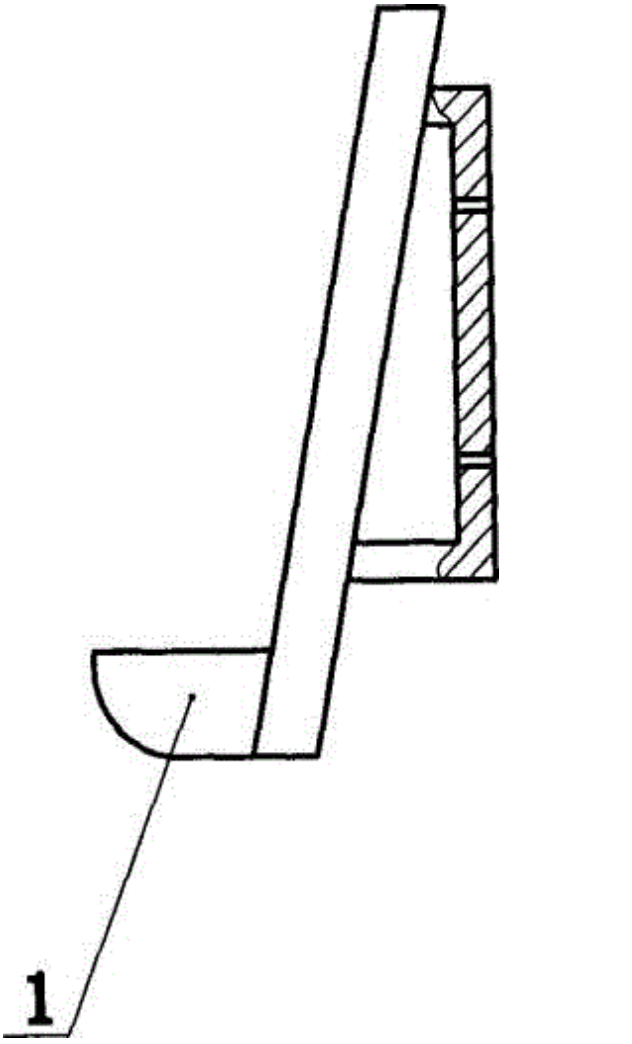


21: 2024/00337. 22: 2024/01/10. 43: 2024/07/12
51: E01C
71: Beijing University of Technology
72: Zizhen DONG, Jinxi ZHANG, Yongchang ZHUO, Yangguang ZHANG
54: AN ENHANCED TEMPERATURE SELF-REGULATING ASPHALT PAVEMENT CONSTRUCTION MATERIAL, STRUCTURE AND CONSTRUCTION METHOD THEREOF
00: -
The present invention discloses an enhanced temperature self-regulating asphalt pavement construction material, structure and construction method thereof, which belongs to the technical field of road engineering. The enhanced temperature self-regulating asphalt pavement structure of the present invention adopts heat reflection slurry seal layer and phase change self-regulating temperature asphalt concrete from top to bottom. The heat reflection slurry seal layer in the enhanced temperature self-regulating asphalt pavement material uses hollow glass beads, and in combination with the asphalt pavement slurry seal layer technology, includes 7%-12% of BC-1 cationic slow-cracking emulsified asphalt, 7%-9% of water, 63%~72% basalt mineral aggregate with a particle size of 0.075mm~4.75mm, 6%~7% hollow glass beads with a particle size of 30-100 microns, and 0.8%~1% common silicate cement. The pavement surface layer adopts phase change self-regulating temperature asphalt concrete, including the following weight of raw materials: 4.8~6 parts asphalt, 107.5~108.6 parts aggregate, 0.3~0.6 parts composite phase change material, 5.9~6.5 parts mineral powder. The enhanced temperature

self-regulating asphalt pavement structure of the invention first carries out the construction of the upper layer of the enhanced temperature self-regulating asphalt concrete, and then paves the heat reflection slurry seal layer. The enhanced temperature self-regulating asphalt pavement of the invention is used to realize the active regulation of the temperature of the pavement. Through indoor cooling tests and outdoor cooling tests found that the pavement has good cooling effect, good road performance, wide application range and broad application prospect.

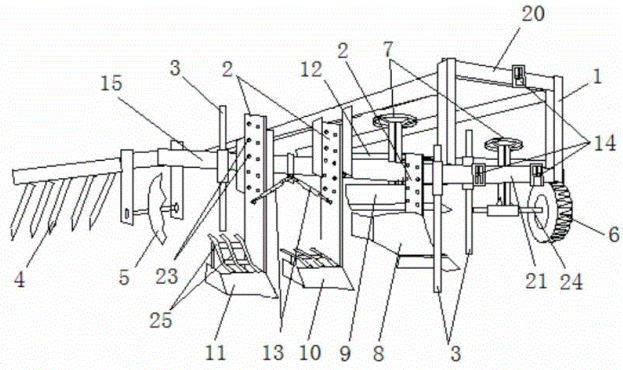


21: 2024/00338. 22: 2024/01/10. 43: 2024/07/12
51: E01H
71: LUDONG UNIVERSITY
72: ZHOU Hong, CHU Shiqin, ZHOU Jianbo
54: FORWARD-MOVING GUIDE SNOW SHOVEL CAPABLE OF QUICKLY DISCHARGING SNOW
00: -
The invention discloses a forward-moving guide snow shovel capable of quickly discharging snow, the lower end of the outer side of a pushing plate is at least connected with a guide joist extending transversely forward; the bottom surface of the guide joist is flush with the bottom surface of the lower end of the pushing plate. When working, when the bottom surface of the lower end of the pushing plate meets the expansion joint on the bridge pavement in the process of removing the snow on the pavement, the guide joist extending transversely to the lower end of the outer side of the pushing plate is firstly supported transversely above the expansion joint, thus effectively preventing the defects caused by the lower end of the pushing plate falling into the expansion joint, easily shoveling out the concave channel steel in the expansion joint, damaging the pavement and damaging the snow clearing machine, ensuring the continuous operation of removing the snow on the pavement at the lower end of the pushing plate, and obviously improving the snow clearing work.



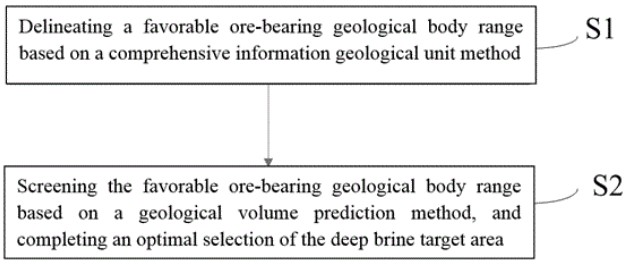
21: 2024/00339. 22: 2024/01/10. 43: 2024/07/12
51: A01B
71: Jiamusi Branch of Heilongjiang Academy of Agricultural Sciences
72: ZHANG Chunfeng, ZHU Baoguo, WANG Nannan, MENG Qingying, FENG Haoyuan, CHEN Dexiang, WANG Qingsheng, LI Zengjie, YUE Minghao, DU Yongsheng, YANG Xiaohe, GAO Xuedong
54: PLOW FOR MIXING STRAW AND SUBSOIL
00: -
The invention relates to the field of agricultural machinery, in particular to a plow for mixing straw

and subsoil, which comprises a plow frame, a ploughshare topsoil plow, a surface scraping plow, a subsoil crushing plow, a bottom soil crushing and mixing plow and a depth limiting wheel; wherein the ploughshare topsoil plow, the surface scraping plow, the subsoil crushing plow and the bottom soil crushing and mixing plow are sequentially installed on a mounting beam of the plow frame, and the depth limiting wheel is installed on an inclined beam of the plow frame. The ploughshare topsoil plow is used to plough topsoil, and the surface scraping plow is used to scrape the surface stubble into the furrow ploughed by the ploughshare topsoil plow, the subsoil crushing plow is used to plough the subsoil layer, and the bottom soil crushing and mixing plow is used to plough the bottom soil layer. The depth of the ploughshare topsoil plow, the surface scraping plow, the bottom soil crushing and mixing plow and the depth limiting wheel are all adjustable. The plow frame is connected with the tractor through a connecting rod and a suspension rod with adjustable length, and the ploughing into the soil can be adjusted by adjusting the length of the suspension rod. The invention can effectively improve soil and increase crop yield, and is simple in structure, economical and practical.



21: 2024/00340. 22: 2024/01/10. 43: 2024/07/12
51: E21B
71: Qaidam Comprehensive Geological and Mineral Exploration Institute of Qinghai Province
72: PAN Tong, WANG Qingchuan, LI Dongsheng, HAN Guang, LI Shuwei, LIU Jiubo, ZHANG Xiaodong, CHEN Jingyuan, QIU Xindi, SUO Lina
33: CN 31: 2023116005362 32: 2023-11-28
54: OPTIMAL SELECTION METHOD AND SYSTEM FOR DEEP BRINE TARGET AREA
00: -

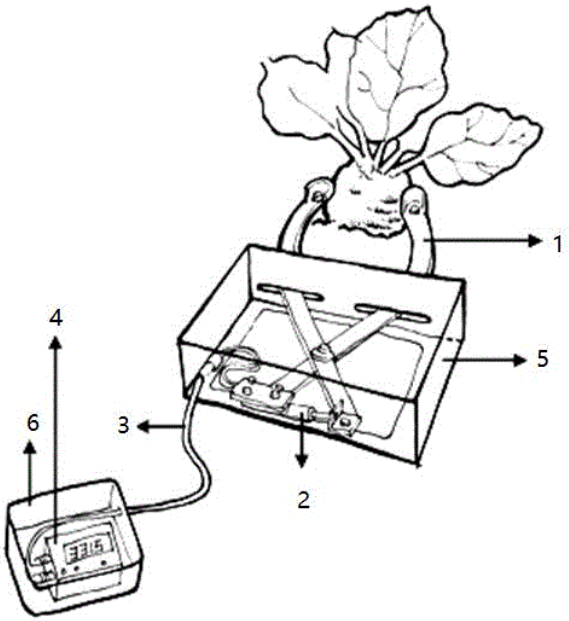
The invention discloses an optimal selection method and an optimal selection system for deep brine target area, the system includes the following steps: S1, delineating a favorable ore-bearing geological body range based on a comprehensive information geological unit method; and S2, screening the favorable ore-bearing geological body range based on a geological volume prediction method, and completing an optimal selection of the deep brine target area. The invention provides technical support for prospecting directions of different deep structures (including potassium).



21: 2024/00341. 22: 2024/01/10. 43: 2024/07/12
51: A01G
71: Jiamusi Branch of Heilongjiang Academy of Agricultural Sciences
72: ZHANG Chunfeng, WANG Nannan, MENG Qingying, ZHU Baoguo, FENG Haoyuan, GAO Xuedong, CHEN Dexiang, WANG Qingsheng, LI Zengjie, DU Yongsheng, YUE Minghao, YANG Xiaohe
54: DEVICE FOR MEASURING UNDERGROUND GROWTH OF ROOT VEGETABLES
00: -

The invention discloses a device for measuring the underground growth of root vegetables, which includes a shell, a data memory, an X-shaped measuring clip and a resistance-type displacement meter installed in the shell, where the X-shaped measuring clip consists of two movable arms, one end of two movable arms is an arc-shaped measuring end, and the arc-shaped measuring end passes through the shell, the middle section is rotatably connected through a bolt, and the other end is connected by a resistance-type displacement meter, the resistance-type displacement meter is connected with the data memory through a wire. According to the invention, the measured variable signal is converted into an electrical signal by using a resistance-type displacement meter, and the electrical signal is stored by using a data memory,

and the function relationship between the electrical signal and the variable signal can be used for analyzing the continuous growth and change law of the tested plant rhizome.

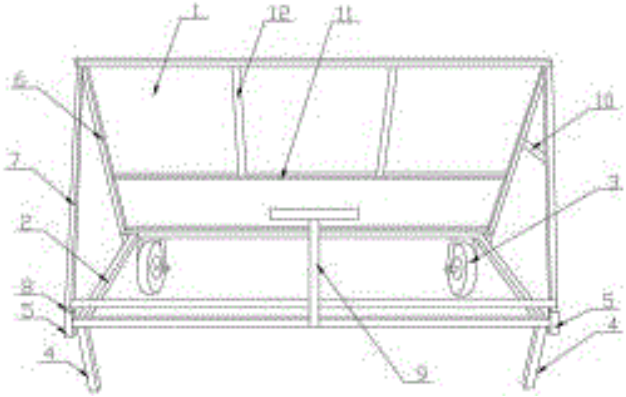


21: 2024/00342. 22: 2024/01/10. 43: 2024/07/12
51: E01F
71: LUDONG UNIVERSITY
72: ZHOU Hong, LUAN Yexing, CHU Shiqin, ZHOU Jianbo

54: ALL-WEATHER ROAD MOBILE SIGN CART

00: -

The invention relates to an all-weather road mobile sign cart, which comprises a signboard, a frame and a detachable signboard frame, where the frame has a rectangular frame structure; two rollers are symmetrically arranged at the front part of the frame, and two legs are symmetrically arranged at the rear part; four corners of the frame are respectively obliquely provided with plug-in sleeves; the signboard frame comprises a front frame and a rear frame; the upper ends of the front frame and the rear frame are hinged; the lower ends extend out of four pins; and the four pins are respectively inserted into the plug-in sleeves. The signboard is installed on the front frame, and a push-pull frame is arranged at the rear part of the frame. The invention has the advantages of convenient transportation, flexible and convenient use and rapid movement, has good stability, realizes the purpose of quickly and flexibly placing signs, greatly improves work efficiency and reduces potential safety hazards.

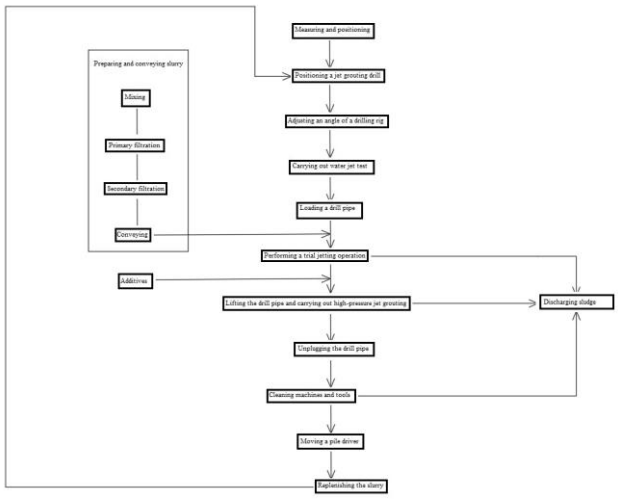


21: 2024/00343. 22: 2024/01/10. 43: 2024/07/12
51: E01C; E02D
71: SHANXI VOCATIONAL UNIVERSITY OF ENGINEERING SCIENCE AND TECHNOLOGY
72: ZHAO, Hua, YANG, Xiying, ZHANG, Yong

54: METHOD FOR TREATING HIGHWAY ROADBED SETTLEMENT BY HIGH-PRESSURE JET GROUTING PILE DOUBLE-PIPE METHOD

00: -

The present invention relates to the technical field of treatment of roadbed settlement, and in particular to a method for treating highway roadbed settlement by a high-pressure jet grouting pile double-pipe method, which includes the following steps: 1) measuring and positioning: setting out, by using a total station, design holes of densified high-pressure jet grouting piles and high-pressure jet grouting piles on a road surface, marking with paint, measuring and positioning the road surface, thereby ensuring that a pile driver is in position accurately; and 2) positioning a jet grouting drill, and moving the jet grouting drill to a specified pile position.



21: 2024/00344. 22: 2024/01/10. 43: 2024/07/12
51: A01B
71: WUWEI CITY FORESTRY COMPREHENSIVE SERVICE CENTER, WUWEI SHIYANG RIVER FORESTRY GENERAL FARM, SHANDAN COUNTY WETLAND PROTECTION STATION
72: WANG, Bin, ZHAO, Yankun, YU, Tianquan, XU, Fahui

54: MINIATURE TILLER CAPABLE OF TURNING BY 360 DEGREES IN PLACE

00: -

A miniature tiller capable of turning by 360 degrees in place comprises a rack (1), a turning support (2) and a joystick (3), wherein the turning support (2) is movably arranged at a front end of a rack (1) through a movable shaft A(4); a support bracket (5) is arranged at an end of the turning support (2); the joystick (3) is arranged in the middle of the turning support (2) through a movable shaft B(6); a lifting limiting pile (7) and a lowering limiting pile (8) are arranged in the middle of the joystick (3) respectively; and the lifting limiting pile (7) and the lowering limiting pile (8) are selectively placed in a control positioning pile (9) on the rack (1). In the intertillage operation, the turning support is lifted through the joystick, and the turning support may not hinder the intertillage operation.

21: 2024/00345. 22: 2024/01/10. 43: 2024/07/12
51: A23L; A61K
71: DEZHOU ACADEMY OF AGRICULTURAL SCIENCES
72: ZHANG, Hongyong, ZHANG, Yu, DU, Mengyang, LI, Hongjie, ZHOU, Xiaolin, WANG, Yuxia, LI, Zishuang, ZHANG, Shuliang

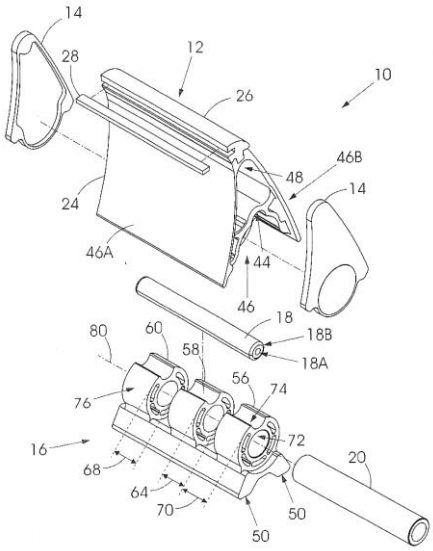
54: LYOPHYLLUM DECASTES (FR.:FR) SING. MYCELIUM HEALTH TEA AND PREPARATION METHOD THEREFOR

00: -

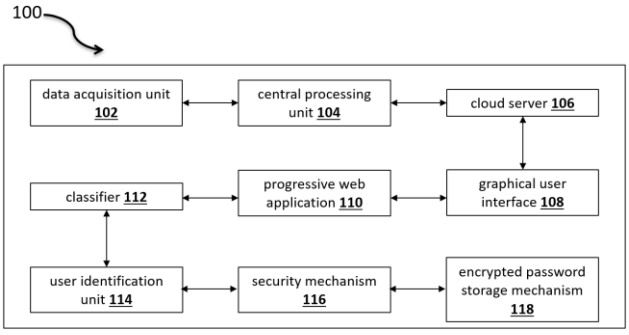
The present invention discloses a Lyophyllum decastes (Fr.:Fr) Sing. mycelium health tea and a preparation method therefor. The Lyophyllum decastes (Fr.:Fr) Sing. mycelium health tea is prepared by the following raw materials in parts by weight: 86-93 parts of Lyophyllum decastes (Fr.:Fr) Sing. mycelium fermented mulberry leaves, 1-3 parts of corn silks, and 6-11 parts of pitted red dates (dry). The preparation method includes: cleaning the raw materials, then uniformly mixing, sterilizing, cooling

and slightly drying; making the raw materials into a ridge surface of about 20 cm in thickness in a clean and closed shed after disinfection; injecting a cultured liquid stain of Lyophyllum decastes (Fr.:Fr) Sing. into a mixed raw material ridge in a 10 cm * 10 cm plum blossom point shape with an inoculation amount of 10-15 ml per point.

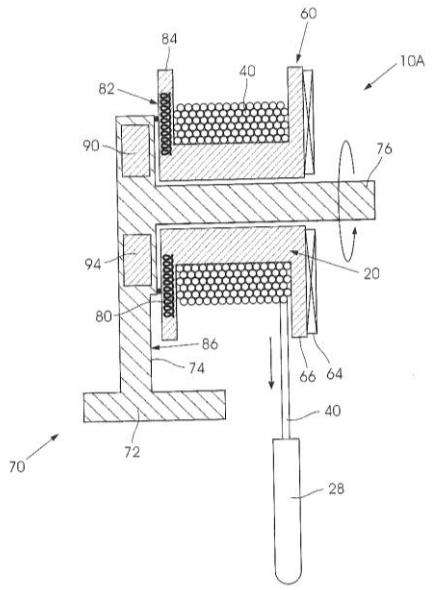
21: 2024/00349. 22: 2024/01/10. 43: 2024/07/12
51: B65G
71: BRELKO PATENTS (PTY) LTD
72: CHRISTIAN, Paul
33: ZA 31: 2023/08925 32: 2023-09-21
54: TORSION HOLDER
00: -
A conveyor belt scraper which has a base, a torsion holder with a scraping edge which is mounted to the base for limited rotational movement relative to the base, and a resiliently deformable locking member which restricts said limited rotational movement during use of the belt scraper on a conveyor belt.



21: 2024/00350. 22: 2024/01/10. 43: 2024/07/12
51: G06F
71: Universidad Bernardo O'Higgins, Claudio Ruff, Cristobal Herrera Vega, Manuel García Marín, José Miguel Rubio León
72: Cristobal Herrera Vega, Manuel García Marín, José Miguel Rubio León
54: A SYSTEM FOR DETERMINING AUTHENTICITY OF NEWS ARTICLES ON DIGITAL PLATFORMS
00: -
The system comprises a data acquisition unit(102) to retrieve news articles; a central processing unit(104) to predict whether the news article is fake or real using an artificial intelligence model, which is trained using a labeled dataset of news articles classified as fake or real; a cloud server(106) to store the news article and predicted veracity in a database; a graphical user interface (108) to display the news articles retrieved from the central processing unit, display the predicted veracity of the displayed news articles, and allow a user to submit a news article for verification by the artificial intelligence model; a PWA to provide functionalities similar to the graphical user interface; a classifier (112) to classify articles based on user input and display aggregated user classifications in a form of percentages; and a user identification unit (114) that utilizes token-based authorization for communications between an application and the central processing unit.



21: 2024/00357. 22: 2024/01/10. 43: 2024/07/12
51: F42B; F42D
71: DETNET SOUTH AFRICA (PTY) LTD
72: KRUGER, Michiel Jacobus
33: ZA 31: 2021/07056 32: 2021-09-22
54: DEPLOYMENT OF A DETONATOR ASSEMBLY
00: -
A detonator assembly which includes a holder, a flexible elongate element which is engaged with the holder, a detonator connected to the element, an energy storage device on the holder and a coil arrangement for charging the energy storage device when the coil arrangement is coupled to a variable electromagnetic field.

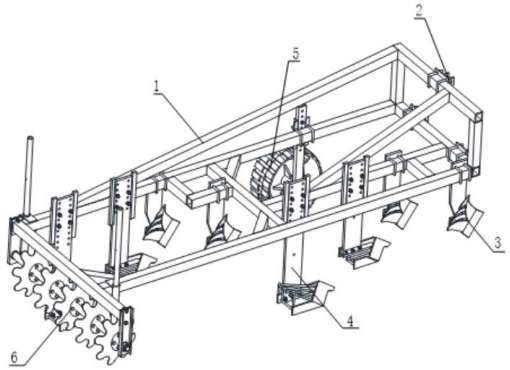


21: 2024/00381. 22: 2024/01/11. 43: 2024/07/12
51: A01B
71: Jiamusi Branch of Heilongjiang Academy of Agricultural Sciences
72: ZHANG Chunfeng, WANG Nannan, MENG Qingying, FENG Haoyuan, ZHU Baoguo, CHEN Dexiang, WANG Qingsheng, LI Zengjie, DU Yongsheng, YUE Minghao, YANG Xiaohe, GAO Xuedong

54: COMPOSITE SOIL TURNING AND MIXING DEVICE

00: -

The invention discloses a composite soil-turning and mixing device, which comprises a plow frame and a traction piece, wherein the front end of the plow frame is provided with the traction piece, which is connected with a tractor in a hanging way; the bottom of the plow frame is provided with two groups of shallow plows; a deep plow is installed at the position corresponding to the shallow plows; a fixing plate is installed at the bottom of the plow frame; a fixing rod is clamped at the top of the fixing plate; and a fixing block is fixed at the bottom of the fixing plate through bolts. A shallow plow blade is fixed on one side of the fixing block, a mounting plate is installed at the bottom of the fixing plate, and a support rod is installed between the mounting plate and the shallow plow blade. By arranging the fixing plate, the shallow plow blade, the height-adjustable connecting plate and the deep plow blade, the shallow plow blade and the deep plow blade cooperate to turn over at different depths, so that the soil with deeper depth can be turned over, which is more time-saving and labor-saving, and the turning efficiency is higher.



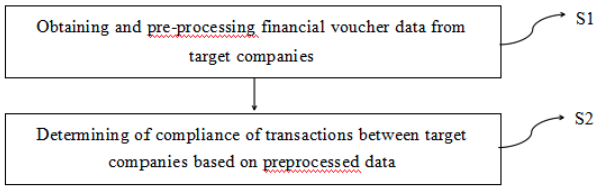
21: 2024/00383. 22: 2024/01/11. 43: 2024/07/12
51: G06F; G06Q
71: COSCO SHIPPING TECHNOLOGY(BEIJING) CO., LTD.
72: ZHANG, Kai, DAI, Yue
33: CN 31: 202311196052.6 32: 2023-09-15

54: METHOD FOR RECONCILING CURRENT ACCOUNTS, COMPUTER-READABLE STORAGE MEDIUM AND ELECTRONIC DEVICE BASED ON FINANCIAL VOUCHER DATA

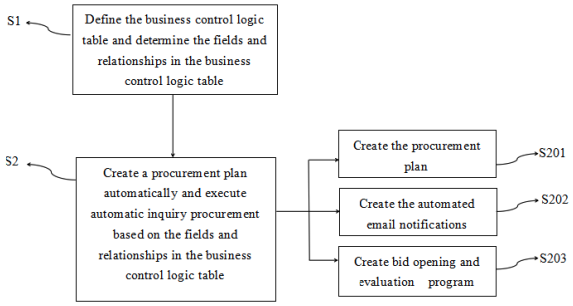
00: -

The embodiment of the present invention discloses a method for reconciling current accounts, computer-readable storage medium and electronic device based on financial voucher data;the method includes: S1, obtaining financial voucher data of the target company and pre-processing the data; includes: obtaining financial voucher data between the target company, obtaining a monthly curve of the borrowing and lending amounts of the target company; and summarizing the financial voucher data of the target company to obtain monthly amount data; S2, determining whether the current accounts between the target companies are compliant based on the preprocessed data; including S201, determining whether the monthly amounts of the target companies are equal month by month based on the monthly amount data obtained; S202, establishing a similarity evaluation index for the financial transaction voucher data, and determining whether the current accounts between the target companies are compliant based on the similarity evaluation index; wherein the similarity evaluation index is The formula is: similarity evaluation index =

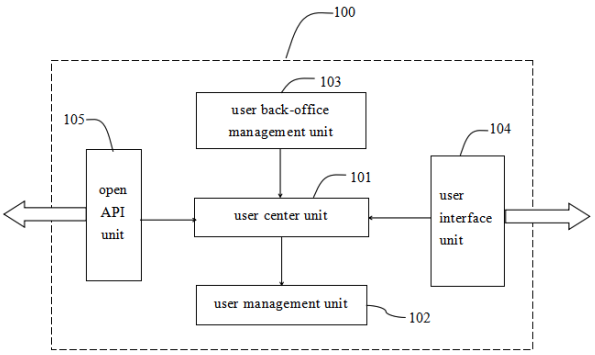
(1/pearson correlation coefficient) × dtw dynamic distance × penalty coefficient.



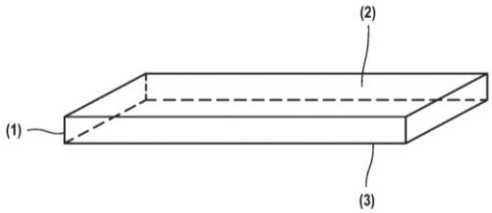
21: 2024/00384. 22: 2024/01/11. 43: 2024/07/12
51: G03F; G06Q
71: COSCO SHIPPING TECHNOLOGY(BEIJING) CO., LTD.
72: TUO, Lei, FAN, Jiaming, LIANG, Jun
33: CN 31: 202311329948.7 32: 2023-10-13
54: AUTOMATED INQUIRY PROCUREMENT METHOD, SYSTEM AND COMPUTER STORAGE MEDIA BASED ON SAP SUPPLIER MANAGEMENT SYSTEM
00: -
The embodiment of the present invention disclosed an automated inquiry procurement method, system and computer storage media based on SAP supplier management system; the automatic inquiry procurement method comprises the following steps: S1, defining a business control logic table, determining fields and relationships in the business control logic table; wherein the business control logic table comprises a table of access to supplier categories, a table of contact information of the suppliers, a table of centralized purchasing categories and a table of supplier bases;S2, automatic creation of procurement program control table, automatic bid opening and evaluation data table; S2, automatic creation of procurement program, automatic execution of automatic RFQ procurement based on the fields and relationships in the business control logic table. Based on SAP supplier management system, the automatic inquiry and procurement method transforms the traditional standard function operation that needs manual operation into system automation, and the offline supplier contact notification operation can also be reminded through system automation, which greatly saves manpower and time consumption, and improves the accuracy of the data.



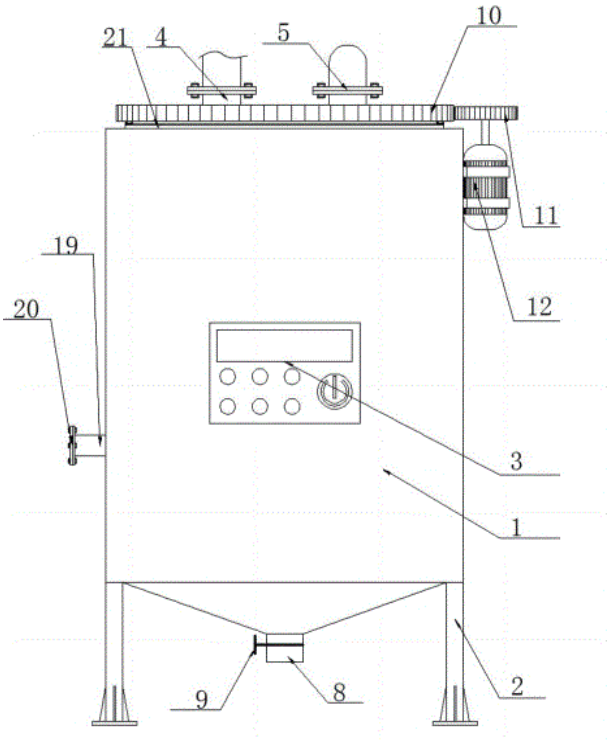
21: 2024/00387. 22: 2024/01/11. 43: 2024/07/12
51: H02J; H02M; H04N
71: COSCO SHIPPING TECHNOLOGY(BEIJING) CO., LTD.
72: ZHANG, Baoqing, ZHANG, Zhi, YU, Jiaxin, YU, Yang
33: CN 31: 202311413267.9 32: 2023-10-27
54: METHOD, SYSTEM, AND TERMINAL FOR ACHIEVING A UNIFIED CODE FOR ECO-TOURISM SCENIC AREAS
00: -
The embodiment of the present invention disclosed a method,system,and terminal for achieving a unified code for eco-tourism scenic areas;the system comprising: a user center unit configured to unify the storage of user data and to provide user data; a user management unit configured to manage the user center unit and to comprehensively manage the user data; a user backstage management unit configured to enable the operation personnel to manage the user center unit; a user interface unit configured to provide a data interface to the User interface unit, configured to provide data interface to terminals and business systems; openAPI unit for three-party systems, configured to provide data interface to three-party systems. The user interface service realizes the unified management of users and the unified storage of user information of multiple business systems in tourist attractions, realizes the management of user system, registration rights and interests and integral system, solves the problem of user data silo of multiple systems, opens up the data connection between the business systems and the user center, and forms the collaborative work of the unified users between different business systems, and forms the closed loop of the online and offline processes.



21: 2024/00396. 22: 2024/01/11. 43: 2024/07/12
51: B01D
71: INSTRACTION GMBH
72: LUNGFIEL, Kristian, MEYER, Christian, WELTER, Martin
33: DE 31: 102021116595.4 32: 2021-06-28
54: COMPOSITE MATERIAL FOR MECHANICAL FILTRATION AND CHEMICAL BONDING OF SUBSTANCES, BACTERIA AND VIRUSES FROM SOLUTION
00: -
The present invention relates to a composite material which is suitable both for mechanical filtration and for chemical/selective binding/repulsion/exclusion of substances from solutions. The present invention also relates to the use of the composite material as a filtration membrane. The present invention is therefore also directed to a filtration membrane which comprises a composite material according to the invention and to the use of the filtration membrane for purifying liquids and/or for separating substances from liquids and/or for removing bacteria or viruses from liquids.



21: 2024/00423. 22: 2024/01/12. 43: 2024/07/12
51: B01J
71: Yunnan Normal University
72: Changmei WANG, Ruihan SUN, Zhishan WANG, Run WANG, Wudi ZHANG, Fang YIN, Bin YANG, Jing LIU, Hong YANG
54: A DEVICE FOR PREPARING MIXED FATTY ACID METHYL ESTER
00: -
The present invention discloses a device for preparing mixed fatty acid methyl ester, which belongs to the technical field of chemical equipment, including a box, a stirring device is fixedly arranged inside the box, a reaction kettle is arranged inside the box, a driving device is arranged outside the upper side of the reaction kettle, a heat conduction device is arranged between the outer wall of the reaction kettle and the inner wall of the box, a flat-top thrust ball bearing is arranged at the bottom of the reaction kettle, the lower side of the flat-top thrust ball bearing is connected with the inner wall of the box, a discharge pipe is arranged below the reaction kettle, a heat pipe is arranged outside the discharge pipe. The present invention adopts a device for preparing mixed fatty acid methyl ester, which can fully stir the raw material and make the reaction more sufficient, meanwhile, the esterification kettle can be uniformly heated to make the reaction proceed more smoothly.

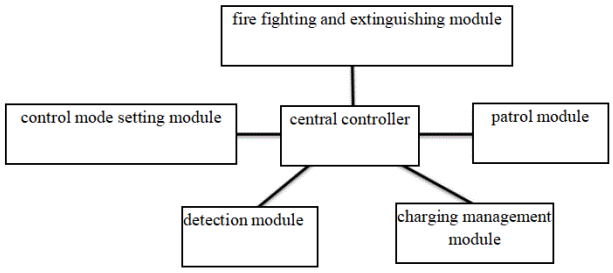


21: 2024/00424. 22: 2024/01/12. 43: 2024/07/12
51: G05B
71: SHANGHAI FIRE RESEARCH INSTITUTE OF MEM, Shanghai Jinshan District Fire Rescue Brigade
72: SHI Wei, ZHOU Zhaowei, GAO Pengcheng

54: INDOOR INTELLIGENT PATROL FIRE-FIGHTING ROBOT

00: -

The invention discloses an indoor intelligent patrol fire-fighting robot, which comprises a central controller for controlling the fire-fighting robot to walk according to a preset patrol route, control mode management, sensor signal analysis and processing and charging management; the control mode setting module is used for setting the operation parameters and patrol route of the fire-fighting robot and displaying the state; the patrol module is used for driving the fire-fighting robot to walk; the detection module is used for detecting the gas, temperature, obstacles and temperature around the fire-fighting robot, and measuring the distance from the obstacles and fire sources to the fire-fighting robot; and the fire fighting and extinguishing module is used for carrying out fire extinguishing operation on the fire site and sending out alarm signals. Through the control mode setting module, the invention can make the fire-fighting robot patrol according to the predetermined route, realize the indoor patrol work, and simultaneously collect data in real time and upload it to the central controller for processing, thus liberating manpower and further improving the efficiency and accuracy of patrol.

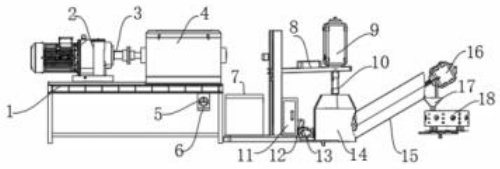


21: 2024/00425. 22: 2024/01/12. 43: 2024/07/12
51: C08B
71: Guangzhou College of Technology and Business
72: Ma Yingzi, Yang Chunmin, Xie Yuxuan

54: AN EFFICIENT EXTRACTION AND SEPARATION DEVICE FOR ANTIOXIDANT GRASS MUSHROOM POLYSACCHARIDES AND ITS PROCESS

00: -

This invention discloses an efficient extraction and separation device for antioxidant grass mushroom polysaccharides, comprising a crushing box, a centrifugal stirring tank, a concentration processing tank, a vacuum drying chamber, a grading crushing bin, and a material storage box. The internal part of the crushing box is equipped with a material crushing roller. Above the centrifugal stirring tank is a centrifugal stirring motor, and the output end of the centrifugal stirring motor is connected to the centrifugal stirring rod inside the centrifugal stirring tank through a stirring shaft. The internal part of the concentration processing tank is equipped with a heating groove, and the heating groove contains electric heating tubes. The internal part of the vacuum drying chamber is sealed and connected to a vacuum pump through a vacuum suction pipeline. The internal part of the grading crushing bin is equipped with a spiral cutting mechanism, and the material storage box contains extraction test tubes. This invention optimizes the processes of extraction, separation, and drying of grass mushroom polysaccharides, achieving efficient extraction and separation. Precise control of extraction, separation, and drying parameters ensures the quality and antioxidant activity of the polysaccharide products.



21: 2024/00427. 22: 2024/01/12. 43: 2024/07/15
51: A01N
71: Jilin Agricultural University
72: GAO, Jie, FENG, Shi, LU, Baohui, BAI, Jie, ZHANG, Ranran, WANG, Xue, YANG, Lina, LIU, Liping, ZHANG, Yanjing, GENG, Qingru

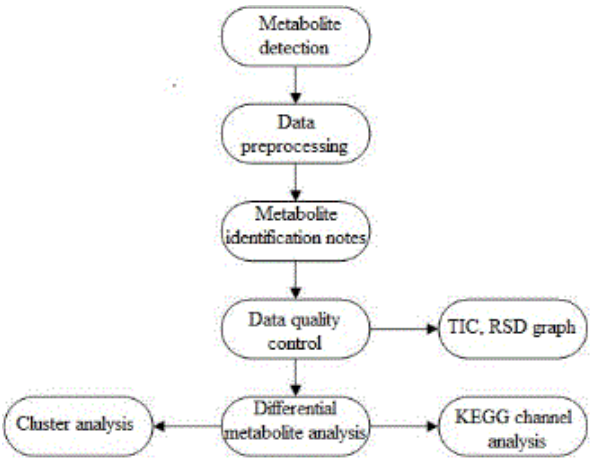
54: FUNGICIDE FOR SYNERGISTIC CONTROL OF LEAF DISEASES OF CHINESE MEDICINAL MATERIALS, PREPARATION METHOD, AND APPLICATION THEREOF

00: -

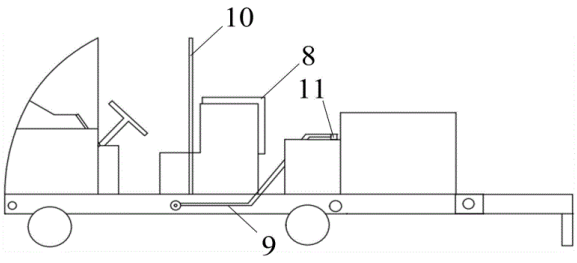
The present invention relates to the technical field of agricultural cultivation, and in particular to a fungicide for synergistic control of leaf diseases of Chinese medicinal materials, a preparation method, and an application thereof. The fungicide for synergistic control of leaf diseases of Chinese medicinal materials includes 20 to 40 percent azoxystrobin, 30 to 60 percent bacillus amyloliquefaciens FS6, 5 to 10 percent synergist

silicone polyoxyethylene ether, 1 to 3 percent dispersant calcium lignosulfonate, 4 to 6 percent emulsifier polyvinyl alcohol, and 1 to 2 percent thickener xanthan gum. The fungicide prepared by the present invention can be formulated into a fungicide suspension with a mass fraction of 5 percent, which can significantly improve the control effect of leaf diseases of Chinese medicinal materials.

21: 2024/00428. 22: 2024/01/12. 43: 2024/07/15
51: C12Q
71: Inner Mongolia Minzu University
72: Guorui LI, Dan WANG
54: METHOD FOR ANALYZING RCGSTF11 GENE FUNCTION BASED ON GLYCOMETABOLOMICS
00: -
Disclosed in the present disclosure is a method for analyzing an RcGSTF11 gene function based on glycometabolomics, relating to the technical field of glycometabolomics analysis. The method includes: connecting an amplified RcGST-F11 gene to a pca1305.2 vector, and obtaining a recombinant plasmid; transforming the recombinant plasmid into an Escherichia coli strain DH5Alpha, and into Agrobacterium Gv3101, and obtaining an Agrobacterium infection solution; completely immersing wild-type Arabidopsis inflorescences into the Agrobacterium infection solution for infection, harvesting seeds of individual plants, and obtaining T3-generation plants; and performing glycometabolism detection on the wild-type plants and the T3-generation plants. The method for analyzing an RcGSTF11 gene function based on glycometabolomics provides a basis for research on the RcGSTF11 gene function, promoting photosynthesis and a molecular mechanism for anthocyanin biosynthesis, and lays a foundation for high photosynthesis breeding of castor.

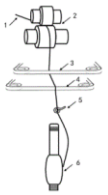


21: 2024/00429. 22: 2024/01/12. 43: 2024/07/15
51: G06Q
71: Jiaxing Vocational and Technical College
72: SANG, Shiqing
54: INTELLIGENT TOURIST GUIDE DEVICE
00: -
The present invention discloses an intelligent tourist guide device, and relate to the technical field of tourism. The intelligent tourist guide device includes a mobile terminal, a communication module and a server, where the communication module includes target nodes and trip nodes; the mobile terminal performs signal exchange with the server via a wireless signal, automatically cruises identification of the signal via the server and includes a chassis, a two-man safety chair is fixedly arranged on the chassis, and a control console housing is fixedly arranged on a front side of the safety chair; and a turnover platform is connected to a tail part of the chassis via a connection shaft, a support seat is fixedly arranged on the turnover platform, and a storage box is fixedly arranged at the tail part of the chassis, and is placed between the safety chair and the turnover platform.



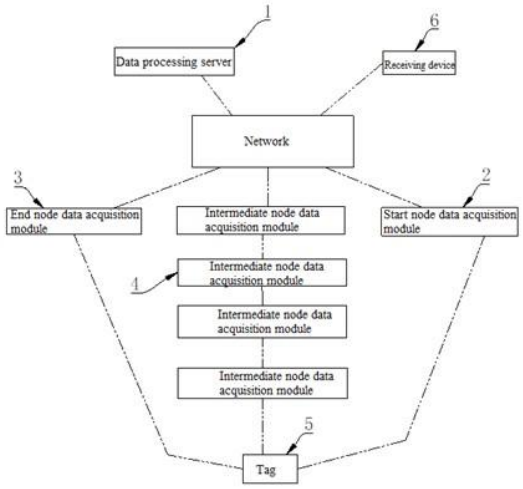
21: 2024/00430. 22: 2024/01/12. 43: 2024/07/15
51: A61K
71: Affiliated Hospital of Inner Mongolia Medical University (Inner Mongolia Autonomous Region Cardiovascular Institute)
72: WEI Ying
33: CN 31: 2023115996584 32: 2023-11-27
54: EXTRACTION METHOD OF TOTAL FLAVONOIDS FROM CITRUS PEEL
00: -
The invention discloses an extraction method of total flavonoids from citrus peel, and belongs to the technical field of flavonoids extraction. The extraction method comprise that following step: carrying out steam blasting pretreatment on citrus peel to obtain pretreated citrus peel; dry, pulverizing and sieve that pretreated citrus peel to obtain coarse powder of citrus peel; mixing and ball milling the coarse powder of citrus peel with potassium tetrahydroborate and sodium tetrahydroborate to obtain mixed fine powder of citrus peel; mixing the mixed fine powder of citrus peel with ethanol solution, sequentially performing ultrasonic extraction and microwave radiation extraction, and then filtering, concentrating and drying to obtain a total flavonoids extract. Compared with the traditional heating reflux method, the extraction method of the invention is not only simple and fast to operate, but also low in solvent consumption and extraction temperature, which effectively shortens the extraction period while improving the extraction rate, and reduces the solvent cost and the solvent pollution to the environment. The extraction method of the invention is suitable for extracting total flavonoids from citrus peel in large quantities in an industrialized way.

21: 2024/00433. 22: 2024/01/12. 43: 2024/07/15
51: D01H
71: Donghua University
72: QIN, Xiaohong, ZHANG, Yue, TENG, Zhilin
33: CN 31: 2023112110571 32: 2023-09-19
54: SPINNING METHOD FOR CHANGING YARN STRUCTURE
00: -
The present invention relates to a spinning method for changing a yarn structure. A first round belt and a second round belt are sequentially arranged between a front roller and a snail wire of a spinning frame, and yarn whiskers formed after drafted roving are output from the front roller, bypass downwards below the first round belt at an angle of inclination to form a spinning section I, then bypass above the second round belt to form a spinning section II, and are wound through the snail wire to obtain yarn; the first round belt and the second round belt move transversely and apply tangential friction forces to the yarn whiskers making contact with the first round belt and the second round belt respectively; and the yarn has a design twist factor ranging from 190 to 270 and an actual twist factor ranging from 191 to 295.

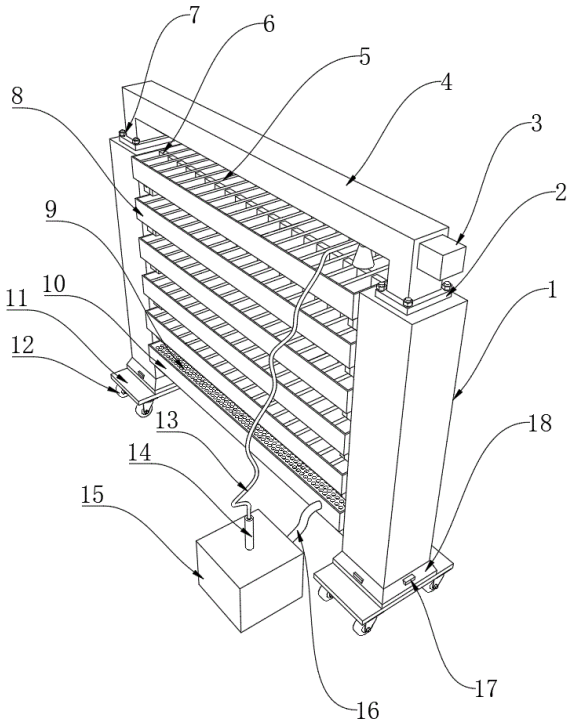


21: 2024/00434. 22: 2024/01/12. 43: 2024/07/15
51: H04L; G06N; G06Q
71: ZHEJIANG UNIVERSITY
72: LU, Wencong, QIAN, Wenxin
54: INTERNET OF THINGS-BASED PREDICTION SYSTEM
00: -
The present invention belongs to the technical field of the Internet of Things (IOT), and particularly relates to an IOT-based prediction system. The present invention provides the IOT-based prediction system to solve a problem of low data processing precision of the prediction system in the prior art. The IOT-based prediction system comprises a data processing server, a start node data acquisition module, an end node data acquisition module and an intermediate node data acquisition module. The start node data acquisition module, the end node data acquisition module and the intermediate node data acquisition module are all in communication connection with the data processing server; and the

start node data acquisition module, the end node data acquisition module and the intermediate node data acquisition module all comprise data uploading units and data receiving units.

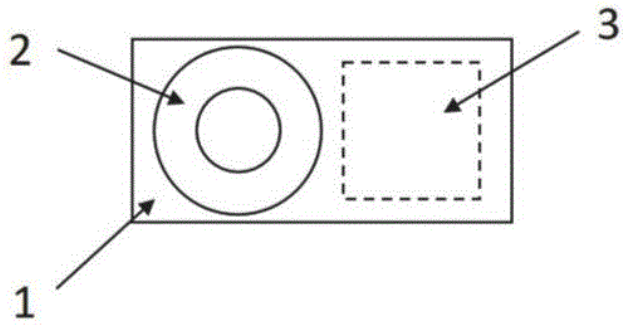


21: 2024/00435. 22: 2024/01/12. 43: 2024/07/15
51: A01G
71: Guilin University of Technology
72: Zhou Hanhan
54: CULTIVATION DEVICE FOR THREE-DIMENSIONAL LANDSCAPE DESIGN AND USING METHOD THEREOF
00: -
The present invention provides a cultivation device for three-dimensional landscape design and a using method thereof, and relates to the technical field of plant cultivating. The cultivation device for three-dimensional landscape design includes two main frames, adjacent sides of the two main frames are arranged with and fixedly connected to evenly distributed locating pins, and nutrient supply assemblies are arranged at top portions of the main frames. By means of the linkage among a lead screw motor, a water outlet pipe, a booster pump, a water storage tank, a water inlet pipe, a screw rod, a nut pair, a mounting block, first fixture blocks, first filtration plates and a spray head, green plants can be sprayed on uniformly when the device is used.



21: 2024/00436. 22: 2024/01/12. 43: 2024/07/15
51: B01L
71: Xi'an Jiaotong University
72: Zhao Xiong, Hao Nanjing
33: CN 31: 202310179758.5 32: 2023-02-28
54: MULTI-FUNCTIONAL PAPER-BASED MICROFLUIDIC CHIP BASED ON BULK ACOUSTIC WAVE AND PREPARATION METHOD AND APPLICATION THEREOF
00: -
Disclosed are a multi-functional paper-based microfluidic chip based on bulk acoustic wave and a preparation method and application thereof, falling within the technical field of paper-based microfluidic chips. According to the present invention, the paper-based microfluidic chip is arranged with a piezoelectric ceramic sheet and a functional zone on a surface of a hydrophobic material covered substrate; when a vibration amplitude of the piezoelectric ceramic sheet exceeds a certain threshold, the vibration will cause a liquid to produce Faraday waves; the Faraday waves have strong mass transfer ability, which can make the liquid flow violently and mix fully; when the vibration amplitude is not enough to cause the Faraday waves, the liquid will not flow violently. However, the deformation of the base caused by the vibration will make insoluble particles move to nodes of the vibration, thus

producing enrichment, which has broad application prospects in mixing, colorimetric detection and fine particle enrichment.

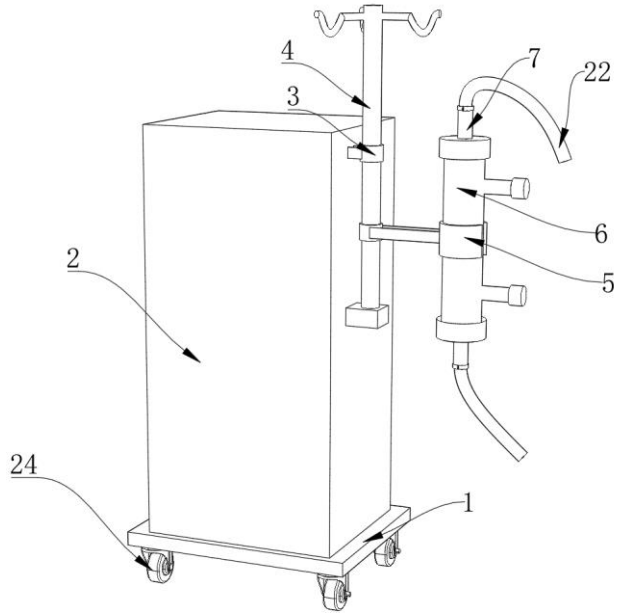


21: 2024/00437. 22: 2024/01/12. 43: 2024/07/15
51: A61M
71: Hejiang County People's Hospital
72: Si Chunyan

54: HIGH-EFFICIENCY DIALYSIS DEVICE FOR BLOOD PURIFICATION

00: -

Disclosed is a high-efficiency dialysis device for blood purification, including a base. A top of the base is fixedly connected to a dialysis machine, an upper part of a right side of the dialysis machine is fixedly connected to a first fixed clip, an inner diameter of the first fixed clip is fixedly connected to a supporting rod, an outer diameter of the supporting rod is fixedly connected to a second fixed clip, and an inner diameter of the second fixed clip is fixedly connected to a dialyser. According to the present invention, a distance between the first clamping loop and the second clamping loop is adjusted by a mounting groove, a bolt and a nut to ensure that the connection during hemodialysis does not loosen or fall off.



21: 2024/00472. 22: 2024/01/15. 43: 2024/07/16
51: C02F
71: Kunming University of Science and Technology
72: YANG, Fujie, SIREN, Cilang, WANG, Jianhong, NI, Pengfei

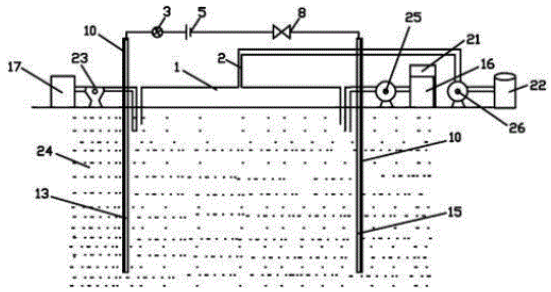
54: METHOD FOR SYNTHESIZING EFFICIENT SCALE INHIBITOR OF AA-TBAM-AMPS COPOLYMER

00: -

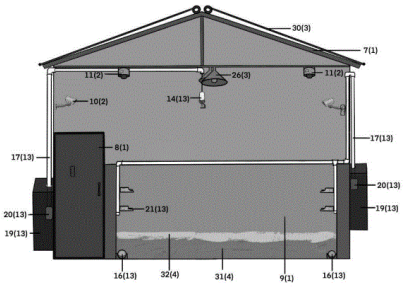
Disclosed is a method for synthesizing an efficient scale inhibitor of an acrylic acid-N-tert-Butylacrylamide-2-Acrylamido-2-methylpropanesulfonic acid (AA-TBAM-AMPS) ternary copolymer with acrylic acid (AA), N-tert-Butylacrylamide (TBAM) and 2-Acrylamido-2-methylpropanesulfonic acid (AMPS). The patent mainly includes a synthesis step, after the synthesized AA-TBAM-AMPS ternary copolymer is compounded with other water treatment agent, and an ideal effect is achieved in use in circulating water with a high pH, high alkalinity and high calcium. The chemical synthesized by the present invention has the following advantages: 1. a synergistic effect is easy to produce after the chemical is compounded with other conventional commercial water treatment monomer chemical; 2. a concentration multiple of the circulating water is increased and water resources are saved; 3. a use amount of the chemical is small, a low price is achieved, and high economic benefits is achieved.

21: 2024/00473. 22: 2024/01/15. 43: 2024/07/18
51: C04B
71: Liangshan Saidi Building Materials Technology Co., Ltd.
72: SUN, Mengxia, SUN, Xiaopei, HE, Yongliang, WANG, Mingjun, YANG, Xing
33: CN 31: 2023115175667 32: 2023-11-15
54: GREEN AND ULTRA-FINE COMPOSITE ADMIXTURE WITH HIGH-PERFORMANCE AND PREPARATION METHOD AND APPLICATION
00: -
The present invention discloses a green and ultra-fine composite admixture with high-performance and a preparation method and application. The admixture includes a first additive, a second additive, a third additive, silica fume, mineral powder, lime, and gypsum. A polymerization reaction of natural fibers connects monomer molecules via a free radical reaction to form high-molecular compounds, during which hydrogen peroxide is added into concrete to react with iron ions in the concrete to generate peroxide of iron and oxygen is released to accelerate the decomposition of rebar oxides and the repair of the surface of the concrete. At the same time, sodium hydroxide is added to react with silicate in the concrete to generate calcium silicate gel to improve the strength and durability of the concrete, and sodium hydroxide can accelerate the solidification of the concrete and shorten the pouring and curing time.

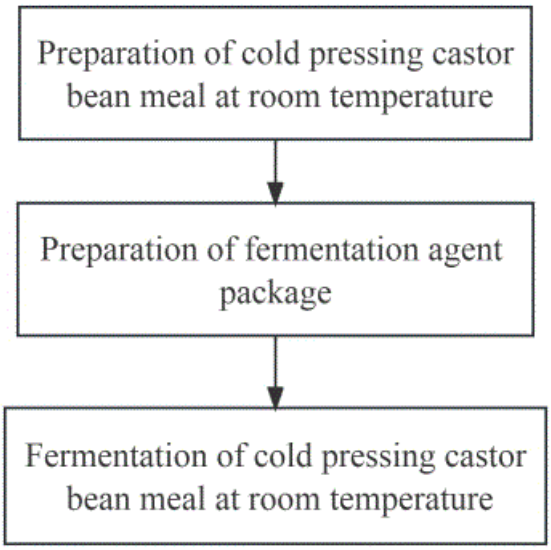
21: 2024/00474. 22: 2024/01/15. 43: 2024/07/18
51: C02F
71: Changjiang River Scientific Research Institute, Changjiang Water Resources Commission
72: SUN, Hui, QIU, Jinwei, HU, Bo, PAN, Jiajun, LI, Cong'an, LI, Bo, TONG, Jun, LIU, Jun, WAN, Jianhong
54: IN-SITU REMEDIATION SYSTEM FOR HEAVY METAL CONTAMINATED RIVER AND LAKE SEDIMENTS
00: -
The present invention relates to the technical field of in-situ contamination remediation and dehydration for river and lake sediments, and in particular to an in-situ remediation system for heavy metal contaminated river and lake sediments. A lower part of a steel plate formwork is inserted and driven into the river and lake sediments. A volatile organic contaminant gas collecting bag is arranged at an upper part of the steel plate formwork, and connected to a volatile organic contaminant gas disposal system through a gas suction pipeline. A nonvolatile organic contaminant treatment device I, a heavy metal and volatile organic contaminant treatment device, a nonvolatile organic contaminant treatment device II, and a nonvolatile organic contaminant treatment device III are respectively arranged at four corners of the steel plate formwork which is provided with an electric remediation system, a sewage discharge system, a water quality detection sensor and a controller



21: 2024/00475. 22: 2024/01/15. 43: 2024/07/18
51: A01K
71: Jishou University
72: LI, Shi, LI, Fangmao, LI, Linbei, LIU, Zhixiao, CAO, Xiao, LIU, Sisi, LEI, Chenxi
54: ZERO-DISCHARGE AND HIGH-EFFICIENCY FERMENTATION BED FOR COMBINED RECYCLING OF RAW PIG MANURE AND USING METHOD THEREOF
00: -
Disclosed is a zero-discharge and high-efficiency fermentation bed for combined recycling of raw pig manure. The present invention includes a pig house framework, an observation instrument assembly, an environmental factor regulation assembly, and fermentation beds, and is applied to the large-scale and modern technology-integrated cultivation of various live pigs and wild boars. Low cost, zero emission, and no pollution can be achieved in cultivation process, thereby maximizing the comprehensive benefits.



21: 2024/00476. 22: 2024/01/15. 43: 2024/07/18
51: C05G
71: INNER MONGOLIA MINZU UNIVERSITY
72: Fenglan HUANG, Mingjing LI, Rui LUO, Guorui LI, Jianjun DI, Mu PENG, Huayang ZHAO, Cheng WANG, Zhibiao HE, Hongxiang QIU, Xiaoyan BAO, Jinglong ZHANG, Yong ZHAO, Shuyan XU, Chunguang BAO, Wenyu HAN, Chao WANG, Qi WEN, Ruhui CHANG, Huibo ZHAO, Xiaotian LIANG, Mingda YIN, Yanpeng WEN, Zhiyan WANG, Xuemei HU, Xiaohui GU, Zhimin SU, Ruxin LI
33: CN 31: 2023118181975 32: 2023-12-27
54: COLD PRESSING CASTOR BEAN MEAL BACTERIA AGENT FERMENTED ORGANIC FERTILIZER AT ROOM TEMPERATURE AND ITS PREPARATION METHOD AND APPLICATION
00: -
The present invention discloses a kind of cold pressing castor bean meal bacteria agent fermented organic fertilizer at room temperature and its preparation method and application, which belongs to the field of fertilizer technology, including: S1. preparation of cold pressing castor bean meal at room temperature; S2. preparation of fermentation agent package: adding microbial agents, enzymes and culture substrate for activation of fermentation agent to the packaging bags of microbial agents according to certain proportion to obtain the fermentation agent package; S3. fermentation of cold pressing castor bean meal at room temperature: cutting the fermentation agent package open, adding water and stirring to a ball, standing at room temperature for 2 ~ 3h, and activating fermentation bacteria; cutting one end of the vacuum packaging bag ofcold pressing castor bean meal at room temperature open, adding the activated fermentation agent to the bean meal, then adding water and stirring to a ball, sealing the packaging bag of the bean meal and performing fermentation at a temperature of about 25 degrees Celsius. The present invention uses a kind of cold pressing castor bean meal bacteria agent fermented organic fertilizer at room temperature and its preparation method and application, wherein the prepared organic fertilizer has higher nutritional value, longer shelf life, shorter fermentation time, better soil improvement effect.



21: 2024/00477. 22: 2024/01/15. 43: 2024/07/18
51: A23K
71: INNER MONGOLIA MINZU UNIVERSITY
72: Manlin WEI
54: A SELENIUM-ENRICHED CONCENTRATE SUPPLEMENT FOR MUTTON SHEEP DURING FATTENING PERIOD AND ITS PREPARATION AND USE METHOD
00: -
The present invention discloses a selenium-enriched concentrate supplement for mutton sheep during fattening period and its preparation and use method, which belongs to the field of animal nutrition technology. The above invention includes: 1. it provides a kind of concentrate supplement with reasonable raw material composition, sufficient nutrients and rich selenium to meet the nutritional needs of mutton sheep during fattening period; 2. it provides a compound premix containing multivitamins and a variety of trace element minerals required for selenium-enriched concentrate supplement during fattening period of mutton sheep described in 1; 3. it provides a preparation method of selenium-enriched concentrate supplement in fattening period of mutton sheep described in 1; 4. it provides a use method of selenium-enriched

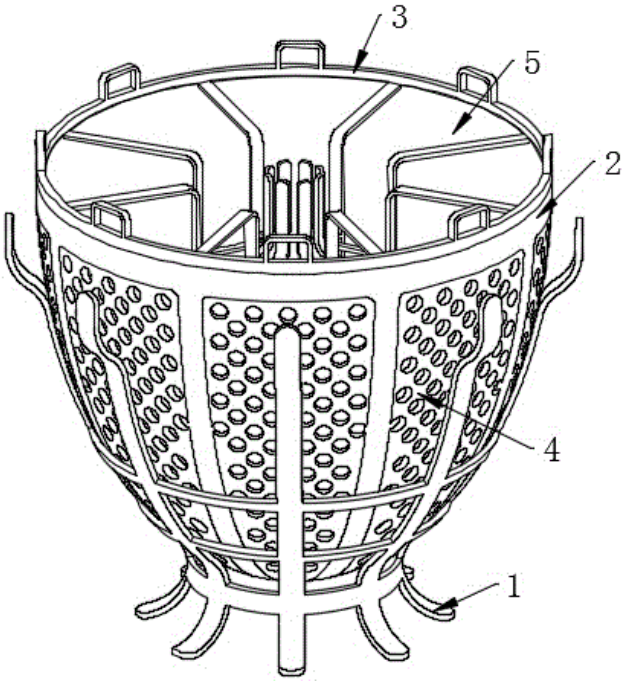
concentrate supplement in fattening period of mutton sheep described in 1. It uses a variety of by-products of grain and oil processing with high nutritional value and low price, and makes them balanced by scientific ratio, meanwhile, adding active yeast, guanidinoacetic acid and nano-selenium to regulate gastrointestinal digestive function and promote fat loss and meat increase, and supplement selenium, which can not only fully meet the nutritional needs of mutton sheep during fattening period, but also improve the weight gain and meat quality of mutton sheep, so as to realize the cost saving and efficiency increasing of mutton sheep breeding.

21: 2024/00478. 22: 2024/01/15. 43: 2024/07/18
51: A23L
71: CHEN, Heping
72: CHEN, Heping
54: SOLUBLE ACTIVE HIGH CALCIUM PREPARED FROM SNAIL SHELLS
00: -

Provided is soluble active high calcium prepared from snail shells, including the following components: 20 - 32 parts of collagen powder, 30 - 43 parts of high calcium protein powder, 20 - 25 parts of snail shell powder, 10 - 13 parts of soy isolate protein powder, 2 - 3 parts of flavoring essence, 1 - 2 parts of a compound stabilizer, 1 - 2 parts of a sweetener, and 2 - 4 parts of parasitic loranthus extract. The high calcium protein powder is added into the soluble active high calcium to improve the calcium content, and the collagen powder and the parasitic loranthus extract are added to improve the absorptivity of a human body on calcium. The soluble active high calcium achieves an objective of preventing incomplete calcium absorption caused by metabolism of the human body, and improves the calcium supplementing effect of the human body.

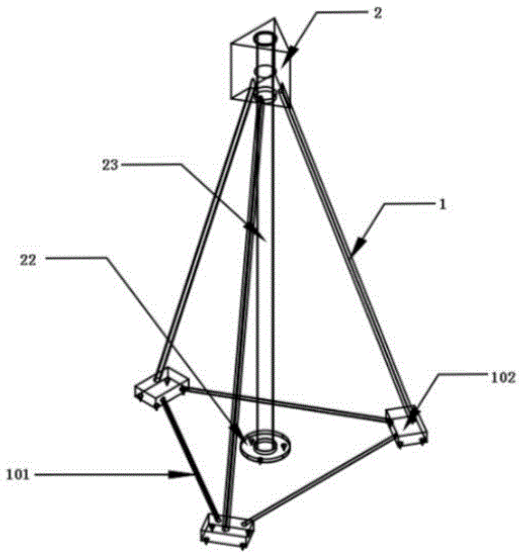
21: 2024/00479. 22: 2024/01/15. 43: 2024/07/18
51: G06Q
71: West Yunnan University of Applied Sciences
72: Haixiang Zhang
54: CULTIVATION DEVICE CAPABLE OF ACQUIRING COMPLETE ROOTS OF CROP IN SITU
00: -

The present invention belongs to the technical field of crop culture, and particularly relates to a cultivation device capable of acquiring complete roots of a crop in situ, including a support frame, an outer frame, a protective frame, curved baffles and a carbon fiber mesh bag. The outer frame rests on the support frame. A top ring on an upper part of the outer frame is fitted with a lap ring of the protective frame. The lap ring is provided with hoisting rings. Fixing rods on a lower part of the lap ring are provided with support rods. Connecting hooks on an upper part of the carbon fiber mesh bag are hooked on the lap ring. According to the present invention, the carbon fiber mesh bag and the protective frame are combined to form a container filled with soil, and the filling soil is used for cultivating the crop, so that the crop grows and produces complete roots. When acquiring the roots of the crop, the soil and the cultivated plant are directly taken down together with the protective frame and the carbon fiber mesh bag, and the soil is soaked and softened with water and then removed, which avoids affecting the roots of the crop and ensures completeness of the roots of the crop. Thus, the complete roots of the crop are acquired, thereby improving accuracy of subsequent root studies.



21: 2024/00480. 22: 2024/01/15. 43: 2024/07/18
51: G01V

71: Hohai University
72: JIANG, Fuyu, GAO, Likun, CHEN, Song, ZHAO, Xun, QIAO, Peixuan
54: PORTABLE SEISMIC WAVE EXCITATING DEVICE
00: -
The present invention discloses a portable seismic wave excitating device and relates to the technical field of geological prospecting devices. The portable seismic wave excitating device includes a pyramidal fixed support and a catapult. Rod pieces at each edge of the fixed support are constructed and connected together through connecting plates at intersection positions. A containing groove where a walking wheel can be placed is formed on a bottom of each connecting plate. A rotary shaft of the walking wheel is capable to be rotatably connected in the containing groove. The walking wheel is detachable. The catapult is arranged at a position of a central axis of the fixed support, and includes a driving hammer, an elastic member arranged at a top end of the fixed support, an iron cake arranged on a bottom surface of the fixed support, and an ascending mechanism connected to the driving hammer.



21: 2024/00481. 22: 2024/01/15. 43: 2024/07/18
51: G01N
71: SHANGHAI UNIVERSITY OF MEDICINE & HEALTH SCIENCES
72: RUI Chuang, LI Tingting, PAN Hongzhi, FENG Jing, MIAO Meng, ZHAO Yuxia, LI Jia
54: PREPARATION METHOD OF ELECTROCHEMICAL SENSOR FOR DETECTING XANTHINE AND HYPOXANTHINE BASED ON NANOCOMPOSITES
00: -
The invention discloses a preparation method of an electrochemical sensor for detecting xanthine and hypoxanthine based on nanocomposites, which belongs to the technical field of electrochemical sensors, and includes following steps: sequentially depositing a metal transition layer and a metal film on a substrate by sputtering to form a substrate electrode; forming a modification layer on the substrate electrode by electrochemical deposition to prepare a sensor carrier; and adsorbing xanthine oxidase on the sensor carrier to prepare an electrochemical sensor for detecting xanthine and hypoxanthine based on nanocomposites. The electrochemical sensor can be used to detect hypoxanthine and xanthine, with wide linear detection range, high accuracy, simple and effective preparation process, and is more suitable for industrial mass production.

21: 2024/00482. 22: 2024/01/15. 43: 2024/07/18
51: A23L
71: INNER MONGOLIA UNIVERSITY OF SCIENCE AND TECHNOLOGY BAOTOU MEDICAL COLLEGE, Baotou Inspection And Test Service Center
72: DUAN Chaohui, WEI Yingxuan
54: HEALTH-CARE SPARKLING BEVERAGE CONTAINING POLYGONUM DIVARICATUM L. AND PREPARATION METHOD THEREOF
00: -
The invention discloses a health-care sparkling beverage containing Polygonum divaricatum L. and a preparation method thereof, belonging to the technical field of beverage processing. The raw materials of the sparkling beverage containing Polygonum divaricatum L. include, in parts by mass, 80-150 parts of Polygonum divaricatum L. juice, 20-50 parts of purslane juice, 100-180 parts of lemon juice, 1-3 parts of carbon dioxide, 0.01-0.03 part of sweetener and 0.05-0.2 part of antioxidant, and the balance of water. The water accounts for 65-70% of the total mass of raw materials. The invention designs a sparkling beverage containing Polygonum divaricatum L., improves the flavor of Polygonum divaricatum L. drinks, further exerts the medicinal value of Polygonum divaricatum L., and meets the

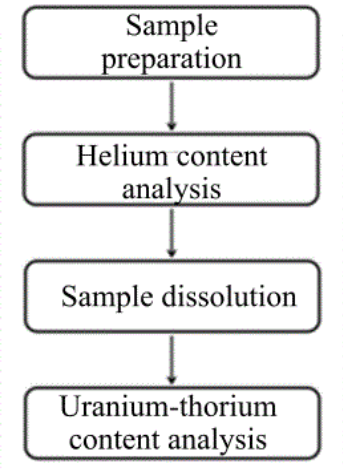
health care needs of drinkers. The obtained product has richer taste levels, outstanding and natural taste.

21: 2024/00484. 22: 2024/01/15. 43: 2024/07/18
51: C01B; C04B
71: Institute Of Geology, Chinese Academy Of Geological Sciences
72: DU, Qiuyi, SUN, Jingbo, CHEN, Wen, TIAN, Yuntao, SHEN, Ze, ZHANG, Bin, GUO, Ziman
33: CN 31: 2023114516683 32: 2023-11-02

54: METHOD FOR DISSOLVING SINGLE-PARTICLE TITANITE AND METHOD FOR DETERMINING AGE OF SINGLE-PARTICLE TITANITE BY (URANIUM-THORIUM)/HELIUM DATING

00: -

Disclosed are a method for dissolving a single-particle titanite and a method for determining an age of a single-particle titanite by (uranium-thorium)/helium dating, relating to the technical field of mineral isotope chronometry. A dissolution method exclusive to the single-particle titanite is provided. In the method for determining the age of the single-particle titanite by (uranium-thorium)/helium dating, contents of uranium, thorium, and helium are obtained by measuring a same sample, which are then substituted into a (uranium-thorium)/helium age equation to directly obtain an age value.



21: 2024/00486. 22: 2024/01/15. 43: 2024/07/18
51: A23K; A61K
71: WUWEI HENGDA ANIMAL HUSBANDRY SERVICE CO., LTD
72: FAN, Jianhua, ZHAO, Wanxin

54: HIGH-PRESSURE EXPANDED FEED ADDITIVE FOR RUMINANTS AND PREPARATION METHOD THEREFOR

00: -

The present invention relates to the technical field of feed. The present invention provides a high-pressure expanded feed additive for ruminants and a preparation method therefor. The feed additive includes the following raw materials in parts by weight: 48-56 parts of urea, 20-26 parts of starch, 0.04-0.06 part of a urease inhibitor, 3-5 parts of zeolite, 1-3 parts of biomass charcoal, 1-2 parts of a yeast fungicide, and 0.03-0.05 part of trace elements. Slow decomposition of urea in the feed additive of the present invention can greatly improve the efficiency of urea utilization and effectively avoid ammonia poisoning. Further, the feed additive is rich in beneficial microorganisms that ruminants need, which can promote the growth and development of ruminants, and improve the efficiency of feed utilization.

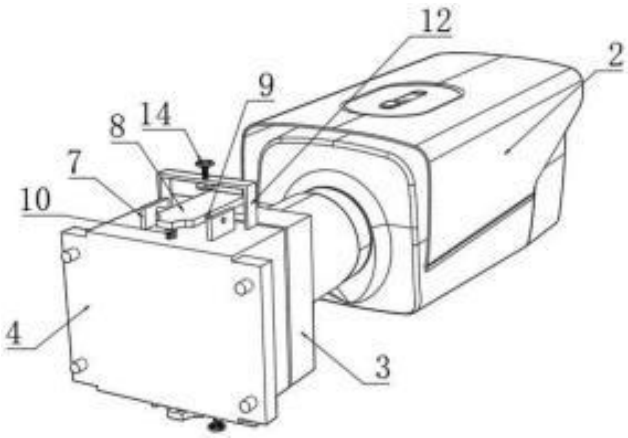
21: 2024/00507. 22: 2024/01/15. 43: 2024/07/18
51: F16M
71: SHANGHAI LINGANG NEW DISTRICT CROSS BORDER DATA TECHNOLOGY CO., LTD.
72: Li Jing, He Weiwei, Zhao Chunqi

54: MONITORING DEVICE FOR DATABASE SERVERS

00: -

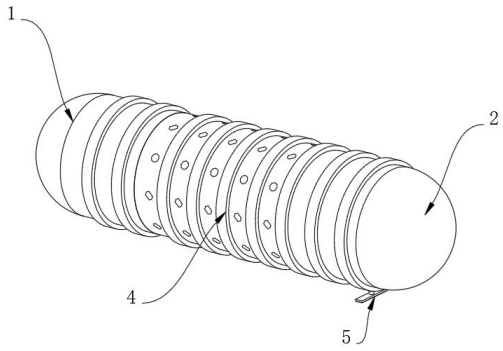
The present invention relates to the technical field of monitoring devices, in particular to a monitoring device for database servers, including servers. A monitoring device is arranged at a top end of one side of the server, and a mounting assembly is arranged at one end of the monitoring device. The mounting assembly includes a connection plate, and the connection plate is positioned at one end of the monitoring device. A mounting block is arranged at an outer end of one side of the connection plate and a locating rod is arranged on one side of the connection plate. The locating rod is positioned on an inner wall of the mounting block and is disposed with a locating groove. Rotary plates are arranged at a top end and a bottom end of the mounting block, and rotary rods are arranged on two sides of the rotary plates. A vertical plate is arranged at one end of each of the rotary rods, and the rotary rod is rotatably connected to the vertical plate. With the mounting assembly arranged, a worker can fix the

monitoring device to a wall body rapidly; and when the monitoring device is damaged, the worker can dismount it for repair, effectively improving the efficiency of mounting and dismounting.



21: 2024/00508. 22: 2024/01/15. 43: 2024/07/18
51: H05K
71: SHANGHAI LINGANG NEW DISTRICT CROSS BORDER DATA TECHNOLOGY CO., LTD.
72: Li Jing, He Weiwei, Zhao Chunqi
54: MONITORING DEVICE FOR DATA SECURITY
00: -

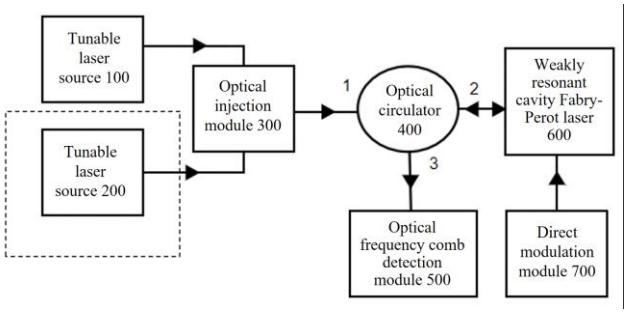
The present invention relates to the field of data security monitoring, in particular to a monitoring device for data security. The monitoring device includes a housing, and a U-disk is mounted inside the housing. A protective housing is mounted at one end of the housing, and a plurality of connection structures are arranged on arc surfaces of the housing and the protective housing. Each of the connection structures includes a notch, and the notch is disposed on the housing and the protective housing. An inner wall of the notch is slidably connected to a fixing rod, and the fixing rod is fixedly connected to a connection rod. Two sliding grooves are disposed on an arc surface of the fixing rod, and inner walls of the sliding grooves are slidably connected to clamping blocks. Two clamping grooves are disposed on inner walls of the housing and the protective housing, and the clamping groove is connected to the clamping block in a clamping manner. A spring is arranged inside each of the sliding grooves, and two ends of the spring are fixedly connected to the clamping block and the sliding groove. The monitoring device for data security provided by the present invention has the advantages of protecting the U-disk conveniently, and buffering upon the U-disk is dropped inadvertently.



21: 2024/00515. 22: 2024/01/16. 43: 2024/07/18
51: G02F
71: SOUTHWEST UNIVERSITY
72: ZHU Beibei, FAN Li, DING Zhuyu, LUO Yang, GAO Ziye, TANG Xi, DENG Tao, LIN Xiaodong
33: CN 31: 2023116832740 32: 2023-12-09
54: DEVICE AND METHOD FOR GENERATING BROADBAND OPTICAL FREQUENCY COMB WITH ADJUSTABLE CENTRAL WAVELENGTH
00: -

Disclosed are a device and a method for generating a broadband optical frequency comb with adjustable central wavelength, and the invention relates to the technical field of optics. The device of the invention adopts a microwave frequency synthesizer to generate a high-power sinusoidal modulation signal with a frequency of 1.6GHz, and the sinusoidal modulation signal and the DC bias are superimposed by a T-shaped bias and loaded on a weakly resonant cavity Fabry-Perot laser, so that the laser presents a gain switch state. Then the continuous optical signal output by the first tunable laser source is injected into the gain-switched weakly resonant cavity Fabry-Perot laser in one direction after passing through the optical injection module and the optical circulator, so that the laser may output an optical frequency comb signal whose central wavelength may be tuned in a wide range and whose bandwidth changes periodically with an increase of the injected wavelength. In order to further improve the performance of the optical frequency comb, a second tunable laser source is additionally introduced, and double light is injected into the laser, so that an optical frequency comb signal with a wider bandwidth and a wide range of

adjustable center wavelength may be obtained than that of single light injection. The invention is suitable for the fields of surveying, spectroscopy, optical communication, microwave photonics and the like.

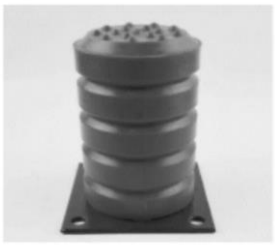


21: 2024/00516. 22: 2024/01/16. 43: 2024/07/18
51: G01M
71: Anhui Science And Technology University
72: QIAO, Yinhu, YAO, Yuan, BAI, Yunlei, ZHANG, Chunyan

54: POLYURETHANE BUFFER FOR FREIGHT ELEVATOR FOR COLD CHAIN WAREHOUSING, AND DETECTION METHOD THEREFOR

00: -

Disclosed is a detection method for a polyurethane buffer for a freight elevator for cold chain warehousing, which belongs to the technical field of elevator buffer devices. The method specifically includes: sampling, temperature and humidity aging test, sunlight aging test and low-temperature freezing test. The sampling is specifically that a test sample is from a finished product from a terminal of a production line of a manufacturer, and an extracted sample has a qualification provided by the manufacturer and conforms to relevant national standards and regulations; and four samples actually extracted are finished products having consecutive production numbers of the same batch to ensure uniformity of raw materials and reduce differences between individuals as much as possible.

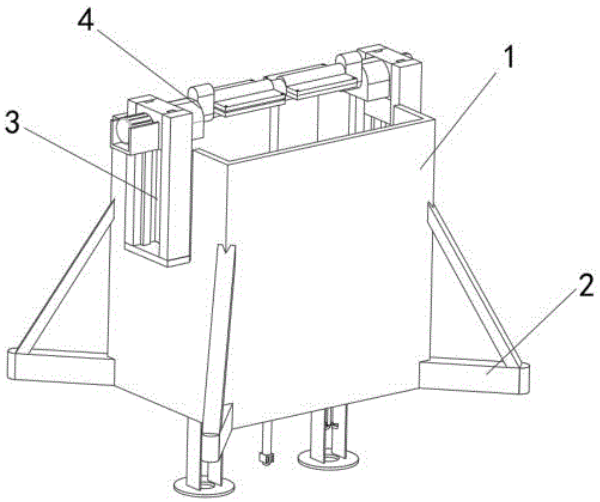


21: 2024/00517. 22: 2024/01/16. 43: 2024/07/18
51: G01B
71: Kunming Metallurgical College
72: Wei Wu

54: A GEOLOGICAL EXPLORATION GEOLOGICAL DEPTH MEASURING DEVICE

00: -

The invention discloses a geological exploration geological depth measuring device in the technical field of geological investigation, comprising a measuring box, a spacing structure, a distance measuring structure and a dredging structure. Both sides of the measuring box cavity are provided with side grooving, and both ends of the outer surface of the measuring box are movable and installed with a spacing structure on both sides of the outer surface of the side groove. The spacing structure comprises a vertical frame, and convex bars are fixed on both sides of the inner cavity of the vertical frame. A range block is movable at the top of the inner cavity of the stand. Through the distance adjusting structure, the down distance inside the stand can be changed after the range block, and the setting of the upper fixing plate and the lower fixing plate can further ensure the maximum extent of the falling of the flipping block. Meanwhile, a threaded rod is extended to the inside of the flipping block to achieve secondary adjustment, and the falling depth can be adjusted again with the rotation of the rotating shaft block. Thus, it can ensure the maximum depth of the foundation pit detection.



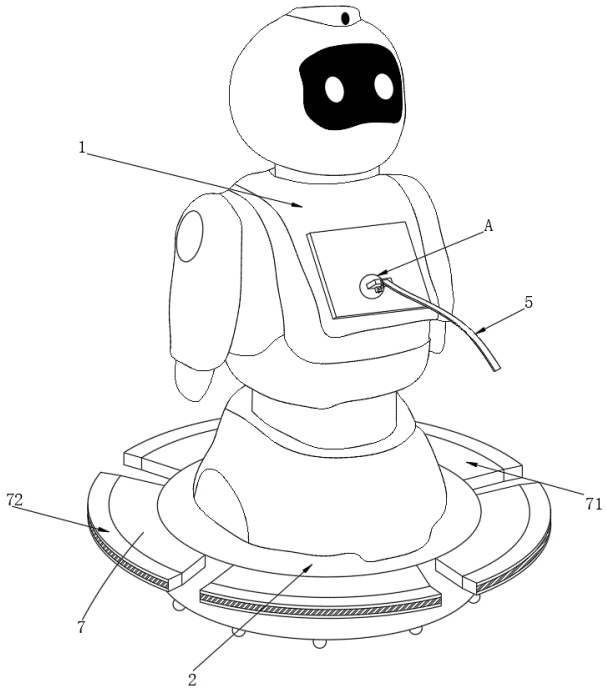
21: 2024/00518. 22: 2024/01/16. 43: 2024/07/18
51: B25J
71: Henan University of Urban Construction

72: Guo Meng, Wang Ke

54: DEEP LEARNING-BASED HOME ROBOT FOR THE INTERNET OF THINGS

00: -

The present invention discloses a deep learning based home robot for the Internet of Things, comprising an IoT robot body and a mobile base fixed below the IoT robot body. The surface of the IoT robot body is provided with a charging interface, and the inner part of the charging interface is plugged with a charging connector. The end of the charging connector is fixed with a charging cable, There is an anti detachment component between the charging connector and the IoT robot body. The anti detachment component prevents the charging connector from falling off, and a buffer protection component is installed on the mobile base. The present invention relates to the technical field of household robots. This IoT housekeeping robot based on deep learning is equipped with anti detachment components to prevent easy separation between the charging interface and charging connector, thereby not affecting normal charging function. The setting of buffering protection components facilitates buffering protection of the IoT robot body, making it less susceptible to damage.



21: 2024/00530. 22: 2024/01/16. 43: 2024/07/18

51: A23K

71: West Anhui University

72: Xueping Jiang, Bangxing Han, Yanjun Chen, Jun Dai, Peipei Wei, Fang Wang, Shanyong Yi, Shuming Li, Tao Xu

33: CN 31: 202310300764.1 32: 2023-03-27

54: A FEED ADDITIVE RICH IN HYDROTHREOSE EXTRACT AND BACILLUS LICHENIFORMIS

00: -

The invention relates to the technical field of feed additives, and discloses a feed additive rich in hydrothreose extract extract and bacillus licheniformis. Mixed dry powder was obtained by pulverizing the hydrothrum, rehmannium and silver bar, and then ethanol was added to it for ultrasonic extraction to obtain filtrate component 1 and filtrate residue component 1. Ethanol aqueous solution was added to the flask containing the filtrate residue, heating, reflux, spinning, concentrating and filtering to obtain filtrate component 2. The filtrate component 1 and filtrate component 2 were mixed to obtain the hydrothrum extract with high precision. A feed additive rich in threosan extract and bacillus licheniformis was obtained by mixing threosan extract, bacillus licheniformis, soybean meal and crude protein evenly. The feed additive prepared by the invention has the function of preventing and treating intestinal diseases and reducing mortality in broilers, piglets and cows when added to feed.

21: 2024/00531. 22: 2024/01/16. 43: 2024/07/18

51: A01M

71: West Anhui University

72: Junhui Cheng, Yourui Huang, Weidong Jia, Pengpeng Yu

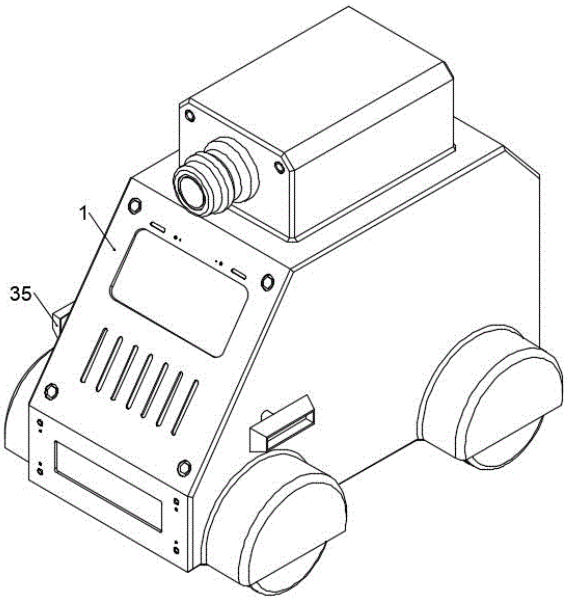
33: CN 31: 202310203638.4 32: 2023-03-06

54: A PLANT PROTECTION ROBOT WITH AUTOMATIC UNIFORM PESTICIDE MIXING FUNCTION

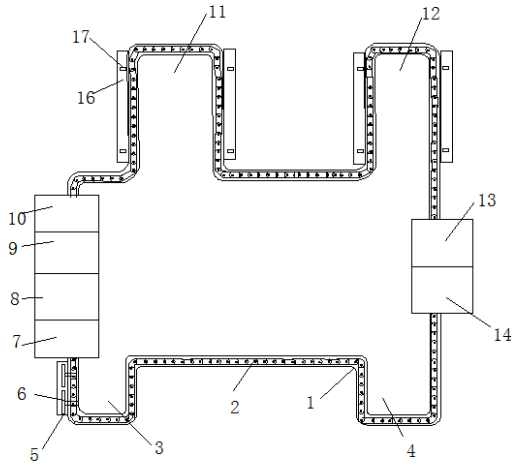
00: -

The invention relates to the field of planting protection, in particular to a plant protection robot with automatic uniform pesticide mixing function, which comprises: a main body, a water tank and a mixing bucket are fixed in the main body, a pesticide storage tank and a supporting plate are fixed on the mixing bucket, and the pesticide storage tank is used to hold pesticide liquid; the mixing mechanism is arranged in the main body and connected with the water tank and the mixing bucket, and the main body is also arranged with the mixing mechanism and the

pesticide storage tank connected with the intermittent unloading mechanism, the mixing mechanism can intermittently transport the pesticide liquid in the pesticide storage tank to the mixing mechanism through the intermittent unloading mechanism, and the pesticide liquid mixing treatment; the sprinkler head is symmetrically arranged on the main body, and the main body is provided with an infusion mechanism connected with the sprinkler head and the mixing bucket, and the infusion mechanism can transport the solution in the mixing bucket to the sprinkler head; the reciprocating component is arranged in the main body and connected with the mixing mechanism and the infusion mechanism.

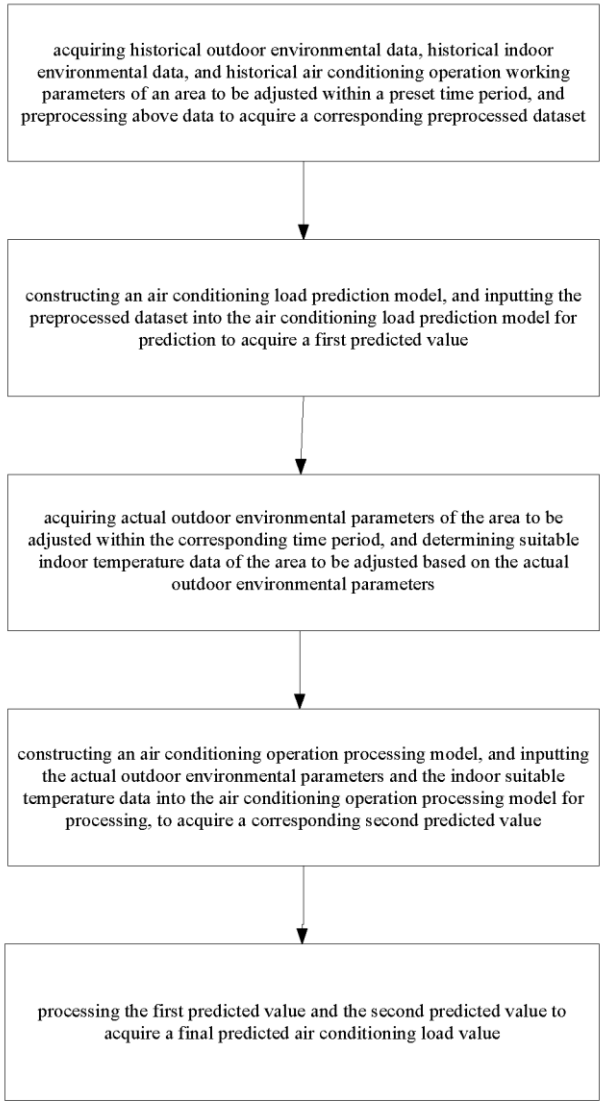


21: 2024/00546. 22: 2024/01/16. 43: 2024/07/18
51: B05D; B21C
71: ANHUI BAISHIJIA PACKING CO., LTD.
72: JIANG, Chuanbao
33: CN 31: 202111219643.1 32: 2021-10-20
54: WIRE DRAWING AND COLOR FIXATION PRODUCTION LINE FOR OUTER SURFACE OF PLASTIC CAP
00: -
The application discloses a wire drawing and color fixation production line for an outer surface of a plastic cap, including an annular production line, one side of the annular production line is provided with a cap feeding area and a cap discharging area which are arranged at intervals; a wire drawing mechanism is mounted at one side of a discharging end of the cap feeding area; bottle caps enter, after passing through the wire drawing mechanism, an electrostatic dust collection chamber, a water curtain chamber, a spraying chamber, and an Ultraviolet (UV) light fixing chamber, and then enter the feeding area and the discharging area; The cap feeding area, the cap discharging area, the electrostatic dust collection chamber, the water curtain chamber, the spraying chamber, the UV light fixing chamber, the feeding area, and the discharging area are located on the same production line, thereby ensuring the production continuity.



21: 2024/00562. 22: 2024/01/17. 43: 2024/07/19
51: F24F; F25B
71: STATE GRID HENAN ELECTRIC POWER COMPANY KAIFENG POWER SUPPLY COMPANY, SOUTHEAST UNIVERSITY, NARI TECHNOLOGY CO., LTD.
72: MENG, Fanbin, XU, Qingshan, ZHENG, Gang, CHEN, Binghua, HAO, Jing, NAN, Yu, DU, Jiao, ZHANG, Haichuan, LU, Zhenjun, ZHANG, Weiguo, ZHU, Qing
54: METHOD, SYSTEM AND STORABLE MEDIUM FOR PREDICTING AIR CONDITIONING LOAD
00: -
The present disclosure discloses a method, system and storable medium for predicting air conditioning load, which relates to the field of air conditioning technology. The method comprises the following steps:acquiring historical outdoor environmental data, historical indoor environmental data, and historical air conditioning operation working parameters of the area to be adjusted within the

preset time period, and preprocessing the above data to acquire the corresponding preprocessed dataset; constructing an air conditioning load prediction model, and inputting the preprocessed dataset into the air conditioning load prediction model for prediction to acquire the first predicted value; constructing an air conditioning operation processing model, and inputting the actual outdoor environmental parameters and the indoor suitable temperature data into the air conditioning operation processing model for processing, to acquire the corresponding second predicted value; and other steps.



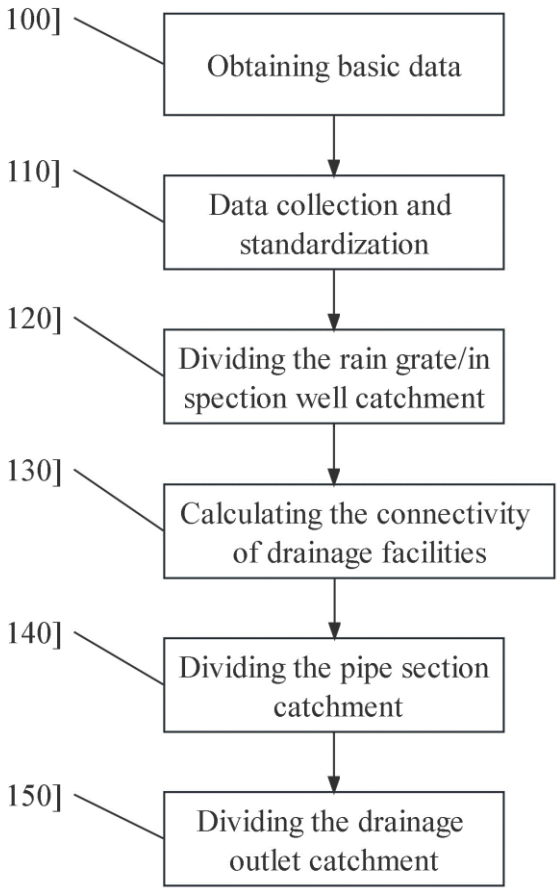
21: 2024/00563. 22: 2024/01/17. 43: 2024/07/19
51: G06F

71: China Institute of Water Resources and Hydropower Research, The General Institute of Water Resources and Hydropower Planning and Design of the Ministry of Water Resources P.R. China, General Office of Ministry of Water Resources P.R. China
72: ZANG Wenbin, CHAI Fuxin, HE Jun, LI Min, MENG Lingguang, HAO Xiaoli, PENG Feng, ZHANG Hongping, ZHENG Jingwei, LIU Yesen, LI Kuang, XU Mei, HU Changwei, LIU Yunning, GUO Xiaoqi, ZHANG Zhen, GU Qian, XU Huimin, XIAO Yuchen

54: URBAN RAINWATER CATCHMENT DIVISION METHOD

00: -

The invention provide an urban rainwater catchment division method, which comprises that following steps: data collection and standardization; dividing the rain grate/inspection well catchment; calculating the connectivity of drainage facilities; dividing the pipe section catchment; respectively calculating the division number corresponding to the pipe section according to the area of the catchment corresponding to the pipe section and the preset expected catchment; dividing the drainage outlet catchment. The invention provides an urban rainwater catchment division method, and on the basis of data collection and standardization processing, the method for dividing rainwater catchments and inspection well catchments is provided. Based on the connectivity calculation of drainage facilities, the division method of pipe section catchment and drainage outlet catchment is further put forward. The boundary control technology and the inspection well densification technology are adopted to optimize the above watershed division method.

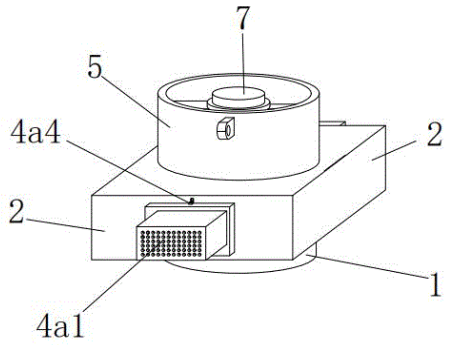


21: 2024/00564. 22: 2024/01/17. 43: 2024/07/19
51: G08B
71: Huating Coal Industry Group Co., Ltd., Xi'an University of Science and Technology, Shaanxi Jinchuang Ante Technology Co., Ltd.
72: Yanfeng Chen, Xuejun Li, Yin Liu, Yanyan Xu, Cheng Wan, Jun Guo, Yongfei Jin, Wentao Du, Guobin Cai, Changming Chen

54: AN INTELLIGENT MONITORING AND WARNING SYSTEM FOR COAL MINE FIRE

00: -

An intelligent monitoring and warning system for coal mine fire comprises a main body of a monitoring and warning system and an explosion-proof shell. The top of the main body of the monitoring and early warning system is fixed with the shell, and the top of the main body of the monitoring and early warning system is fixed with the sleeve. The top of the sleeve is fixedly connected with the second motor, and the output end of the second motor is fixedly connected with the fan blade. By pulling the limiting block on both sides outwards, the limiting block drives the spring compression, so that the limiting block and the clamping block are released, and then the drying box is taken out. The new drying box is then inserted into the groove of the shell through the card block on the outside of the baffle, so that the card block squeezes the limiting block outward. When the block is inserted into the interior of the housing, the spring's spring force drives the limiting block to connect with the block so as to replace the drying box and dry the air by drying the desiccant inside. This can avoid the outside humid air into the fire intelligent monitoring and warning system inside the device damage.



21: 2024/00570. 22: 2024/01/17. 43: 2024/07/19
51: A01B; A01H; A01N
71: GANSU AGRICULTURAL UNIVERSITY, QINGYANG CITY XIFENG DISTRICT AGRICULTURAL TECHNOLOGY EXTENSION CENTER, JIUQUAN ACADEMY OF AGRICULTURAL SCIENCES, ZHANGYE ACADEMY OF AGRICULTURAL SCIENCES
72: SHI, Jing, JIA, Juanjuan, ZHENG, Rong, MIU, Chunqing

54: PARENT PURIFICATION METHOD, FINE CORN SEED AND METHOD OF PRODUCING CORN SEEDS

00: -

The present invention discloses a parent purification method, a fine corn seed and a method of producing corn seeds, which belongs to the technical field of agriculture, including land selection, parent purification, sowing time setting, sowing space setting, fertilization management, impurity removal treatment, watering management, emasculation of female parents, flowering stage management, harvesting and post-harvest treatment. A hybrid seed production technology for the corn seeds provided by the present invention can make a purity

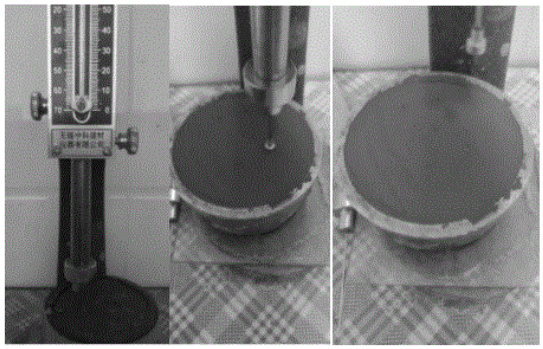
and a bud rate of hybrid seeds reach and exceed 98%, and make quality reach an international advanced level.

21: 2024/00571. 22: 2024/01/17. 43: 2024/07/19
51: C04B
71: Shanxi Huayang Group New Energy Co., Ltd., Beijing Chuangkou Technology Co., Ltd.
72: FAN Junping, QIU Jinzhong, ZHANG Jing, ZHANG Xiapeng, NI Huaihua, LI Boqiang, WU Pengliang, AN Zhe, CHEN Dedong, LIU Yude, GUO Jingzhong, YANG Yuanzhong, SHI Xiaojing

54: TESTING METHOD FOR GROUTING REINFORCEMENT OF HIGHLY PERMEABLE INORGANIC MATERIALS BASED ON SOFT SURROUNDING ROCKS

00: -

The present invention relates to the technical field of grouting reinforcement, and provides a testing method for grouting reinforcement of highly permeable inorganic materials based on soft surrounding rocks, including the following specific steps: S1. material selection: selecting a certain amount of ultrafine silicate cement, silica fume, fly ash and water-reducing agent as raw materials, weighting the same, and stirring the selected ultrafine silicate cement, silica fume, fly ash and water-reducing agent by a blender after being mixed with water; and S2. hardness test: introducing a stirred mixture in step S1 into a test basin, performing a test in an environment having a room temperature of 14℃ and a humidity of 60. According to the testing method for grouting reinforcement of highly permeable inorganic materials based on soft surrounding rocks, with the combination of multiple steps of hardness test, microscopic granule analysis and material strength analysis, the highly permeable inorganic grouting reinforcement materials are tested through the production of models, making the test results more persuasive, realizing precise analysis, and improving the accuracy of testing.

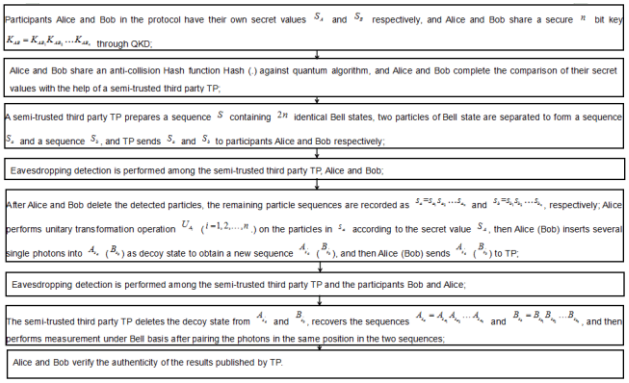


21: 2024/00578. 22: 2024/01/17. 43: 2024/07/19
51: H04L
71: Anhui Science And Technology University
72: Cao Hao, Chen Tao, Tong yuke, Chen xuemin, Zhou nanrun, Gong Lihua, Yang Mengqing

54: COMPARISON METHOD FOR TWO-PARTY QUANTUM SECRET SIZE BASED ON THE TWO-LEVEL BELL STATE

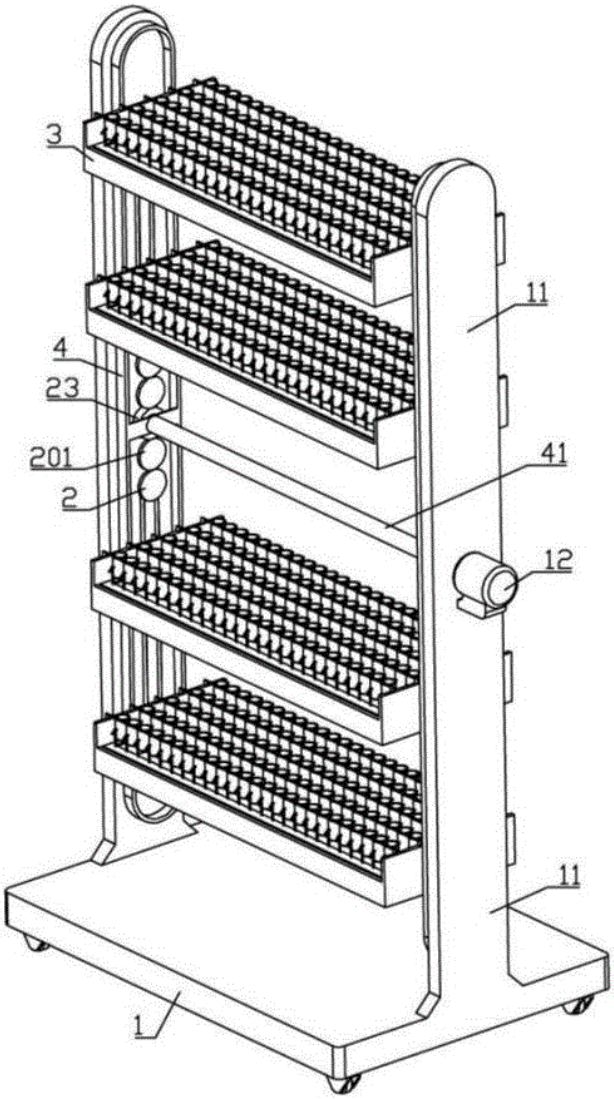
00: -

The invention discloses a comparison method for two-party quantum secret size based on the two-level Bell state, which relates to the technical field of communication. The method comprises the following steps: step 1: participants Alice and Bob in the protocol have their own secret values and respectively, and Alice and Bob share a secure bit key through QKD; step 2: Alice and Bob share an anti-collision Hash function Hash (.) against quantum algorithm, and Alice and Bob complete the comparison of their secret values with the help of a semi-trusted third party TP. According to the invention, the equality relationship and the size relationship of the secret values of two participants Alice and Bob can be effectively judged, and the quantum state prepared by TP is the Bell state of the two-particle maximally entangled state. The nonexistence of eavesdroppers and the honesty of TP are verified through the first eavesdropping detection.

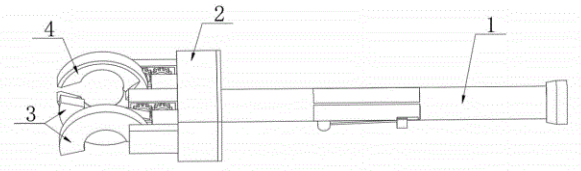


21: 2024/00609. 22: 2024/01/18. 43: 2024/07/19
51: C03C
71: Henan University of Urban Construction
72: WANG Xiao, ZHANG Jianwu, XU Zhuoyue, JIN Biao, ZHANG Xiaoting, LUO Qing
54: METHOD FOR PREPARING LIGHT INSULATION BOARD FROM ALUMINUM EXTRACTION RESIDUE OF FLY ASH
00: -
The invention belongs to the technical field of industrial solid waste resource utilization and green building material products, and in particular relates to a method for preparing a lightweight insulation board from aluminum extraction residue of fly ash. The lightweight insulation board is prepared from the following components in parts by mass: 5-20 parts of sand; 10-20 parts of modified floating beads; 5-15 parts of hollow glass beads; 5-15 parts of inorganic thermal insulation slurry; 5-25 parts of desulfurization gypsum; 20-30 parts of water and 1-5 parts of binder. By the method, the consumption of aluminum extraction residue from fly ash is large, and the resource utilization and environmental protection benefits are remarkable; the prepared insulation board is light in weight, with a density of 1.00-1.50g/cm3, good in thermal insulation performance and a thermal conductivity of about 0.17-0.26W/(m·K), and can be used for thermal insulation and decoration of building interior walls. The manufacturing, molding and curing processes are simple, the large-scale production is easy to realize, the cost is low, and the market prospect is broad.

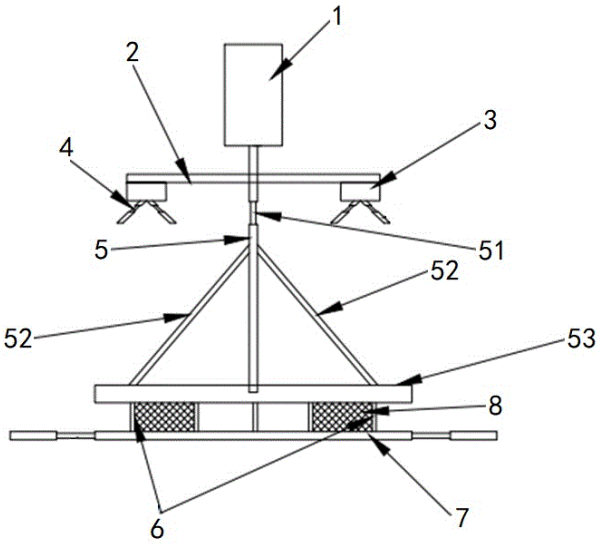
21: 2024/00611. 22: 2024/01/18. 43: 2024/07/19
51: A01G
71: WEI FANG SHI NONG YE KE XUE YUAN
72: KONG Xiangbin, HAN Ruidong, ZHANG Lianxiao, LIU Ying, CHU Wenhong, YANG Hongguang, LIU Feng
54: SEEDLING CULTIVATION DEVICE
00: -
The invention belongs to the technical field of agricultural planting equipment, and in particular relates to a seedling cultivation device. In the process of seedling cultivation, the space utilization rate of the device can be improved, and the proportion of space can be reduced. At the same time, when performing different operations on seedlings, the placing tray can be adjusted to an appropriate height state, and at the same time, it can be fully unfolded to expose and maintain a stable state parallel to the ground, which is more conducive to the needs of seedling operation. Due to the arrangement of the bucket opening assembly, all cultivation buckets can be quickly opened when seedlings need to be taken out, so as to improve the efficiency and convenience when seedlings are taken out; after the cultivation bucket is opened, the seedling pusher can further assist the seedling pushing out, which can reduce the damage caused by falling outside the seedling and improve the efficiency of seedling taking out.



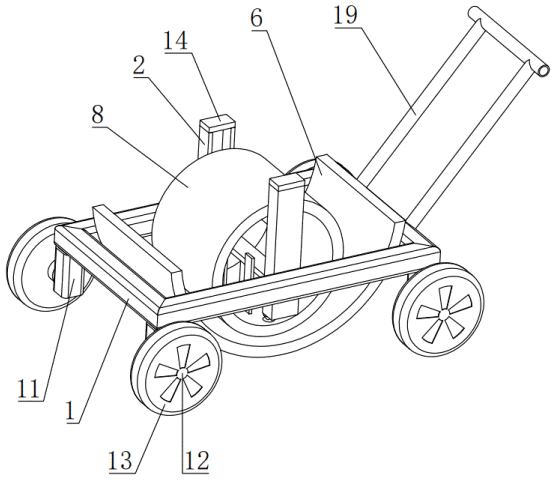
21: 2024/00612. 22: 2024/01/18. 43: 2024/07/19
51: A01D
71: Jiaxing Vocational and Technical College
72: LIU, Yang, HONG, Yanan, LI, Yanbiao, LI, Jun
54: INTELLIGENT PICKING DEVICE FOR PLUM ORCHARDS
00: -
Disclosed is an intelligent picking device for plum orchards, including a grip lever. A mounting base is fixed at the upper end of the grip lever. Clamping half-rings and cutting half-rings are rotatably provided on a side surface of the mounting base. The side surface of the mounting base is provided with a drive mechanism configured to drive the clamping half-rings and the cutting half-rings to rotate to clamp and cut. The roots of the plums are clamped and cut by the clamping half-rings and the cutting half-rings, so that the cut plums are clamped without dropping, thereby ensuring automated intelligent picking and reducing the damage to the plums. The main motor drives a drive gear and a secondary gear to rotate synchronously and engage alternately with the clamping gear and the cutting gear, so that the clamping half-ring and the cutting half-ring may alternately rotate.



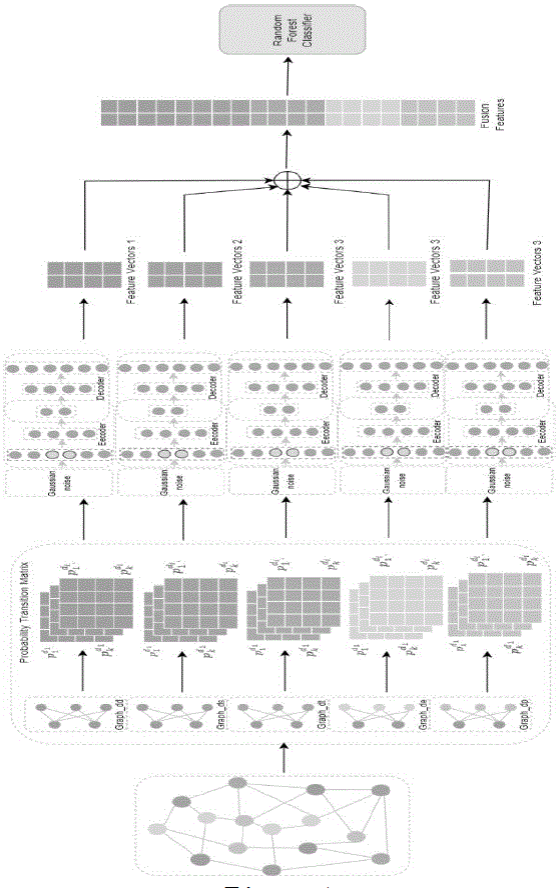
21: 2024/00613. 22: 2024/01/18. 43: 2024/07/19
51: B01F
71: CHINA RAILWAY NO.5 ENGINEERING GROUP CO., LTD., Central South University of Forestry and Technology
72: Yongyi LI, Zhenwei YAN, Zhenrong XIA, Cong ZHANG, Ke OU
33: CN 31: 2024200216359 32: 2024-01-05
54: STIRRING DEVICE FOR PULPING TANK
00: -
The present application provides a stirring device for a pulping tank. The stirring device includes a rotary driving part, an erecting assembly, a supporting assembly and a stirring assembly; the erecting assembly is erected above the pulping tank; the rotary driving part is mounted on the erecting assembly; meanwhile, the rotary driving part is in transmission connection with the supporting assembly; the supporting assembly is connected with the stirring assembly; the stirring assembly is positioned in the pulping tank; the rotary driving part drives the supporting assembly and the stirring assembly to rotate; and the stirring assembly is used for stirring slurry in the pulping tank. According to the present application, the device can be conveniently erected above the pulping tank on site, and thus pulp in the pulping tank can be directly stirred.



21: 2024/00614. 22: 2024/01/18. 43: 2024/07/19
51: A01G
71: ANHUI SCIENCE AND TECHNOLOGY UNIVERSITY
72: Wu Guowei, Zheng Qian, Bai Yunlei, Yuan Shudong, Wang Xuan, Wen Xiaobo
54: A KIND OF HIGH EFFICIENT MULCHING FILM HOLE FIXING DEVICE FOR AGRICULTURAL PLANTING
00: -
Disclosed in the present invention is an agricultural planting high-efficiency mulching film hole fixing device, comprising a frame, and a walking device is provided under the frame; A slide is provided on the frame, a first moving device is provided in the slide, and a first spring is provided between the first moving device and the upper end of the slide; A second moving device is provided below the first moving device, and a second spring is provided between the first moving device and the second moving device; The lower end of the second moving device is provided with a push rod; An arc plate is fixed in the frame, and a first jack is opened upward at the lower end of the arc plate; A cylinder is rotatably arranged in the arc plate, a second jack is opened on the cylinder, a stop bar is fixed in the cylinder, and each stop bar is disposed between two adjacent second jacks; The rotation of the stop bar with the cylinder can push the first moving device to move downward, and the stop bar is separated from the first moving device when the stop bar is placed at the bottom and in the vertical position. The invention solves the problem that uneven punching on the arched ridge is easy to damage the geomembrane.



21: 2024/00615. 22: 2024/01/18. 43: 2024/07/19
51: G01N
71: China University of Mining and Technology
72: Wei Yu, Wang Lei, Li Zhengwei, Wang Meineng, Wei Mengmeng
33: CN 31: 2023118451048 32: 2023-12-29
54: A POTENTIAL METHOD, SYSTEM, DEVICE, AND MEDIUM FOR PREDICTING POTENTIAL DRUG INTERACTIONS
00: -
This invention belongs to the field of drug interaction prediction technology and discloses a potential method, system, device, and medium for predicting drug interactions. It includes: obtaining biological information data; inputting the biological information data into a drug interaction model for interaction prediction, obtaining potential drug interaction prediction data; the drug interaction model comprises sequentially connected data processing sub-models, random-surfing sampling sub-models, and feature fusion prediction sub-models; the drug interaction model is constructed based on random-surfing and stacked denoising autoencoders. The technical solution of this invention effectively captures high-order information of drug nodes by fusing features extracted from multiple networks, eliminating the risk of noise or overfitting that may be introduced by a specific feature, and comprehensively demonstrates the characteristics of underlying data and raw key data.

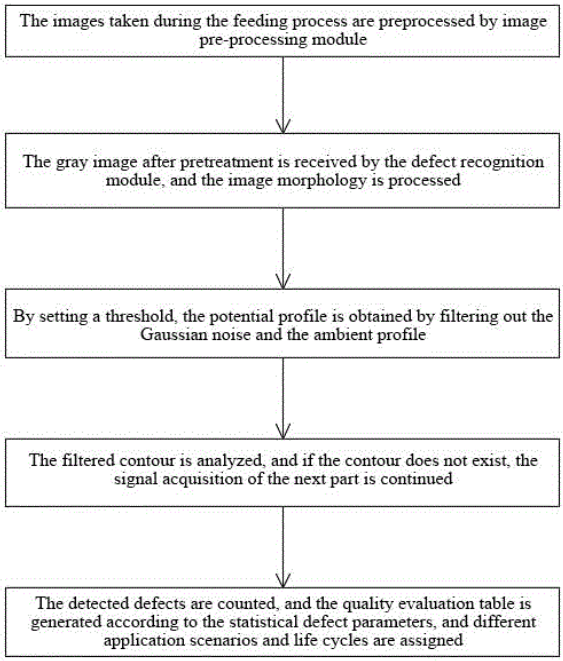


21: 2024/00618. 22: 2024/01/18. 43: 2024/07/19
51: G06T
71: Zhejiang Dongfang Polytechnic
72: Qi Diao, Haolong Yang, Wanchang Dai, Dingchao Zheng, Yanxia Wei, Tao Song, Shangde Xie, Maomao Chang

54: AN X-RAY IMAGE DETECTION METHOD BASED ON DEEP LEARNING

00: -

The invention relates to the technical field of image data processing, in particular to an X-ray image detection method based on deep learning, which comprises the following steps: the image pre-processing module is used to preprocess the pictures taken during the feeding process, and the weight information of the work-piece is collected by the sensor mounted on the feeding device during the feeding process, and the size of the work-piece is measured with the X-ray shooting device; the beneficial effects are as follows: the X-ray image detection method based on deep learning is proposed in the invention. While X-ray processing is carried out on the work-piece through image pre-processing module and defect identification module, gravity sensor is installed on the conveying equipment, and X-ray shooting equipment is used to read the weight and size data information of the work-piece during the conveying process; the problem of low efficiency of X-ray image processing of the existing work-piece is further solved, and the weight and size information of the work-piece can be preprocessed during the conveying of the work-piece.



21: 2024/00619. 22: 2024/01/18. 43: 2024/07/19
51: G06Q
71: Suzhou University
72: Zhang Zhiwei, Qin Wenbo

54: LINK PREDICTION METHOD FOR COMPLEX NETWORKS BASED ON LINK VALUE ASSESSMENT

00: -

The present invention discloses a link prediction method for complex networks based on link value assessment, comprising: creating a user dataset to capture multiple network relationships among users; assessing the value of network links, and predicting links that do not appear through the network link value assessment results, the this includes setting a threshold value for the network link value, outputting a link whose assessed value is higher than the threshold value as the prediction result, and more specifically constructing a network link prediction

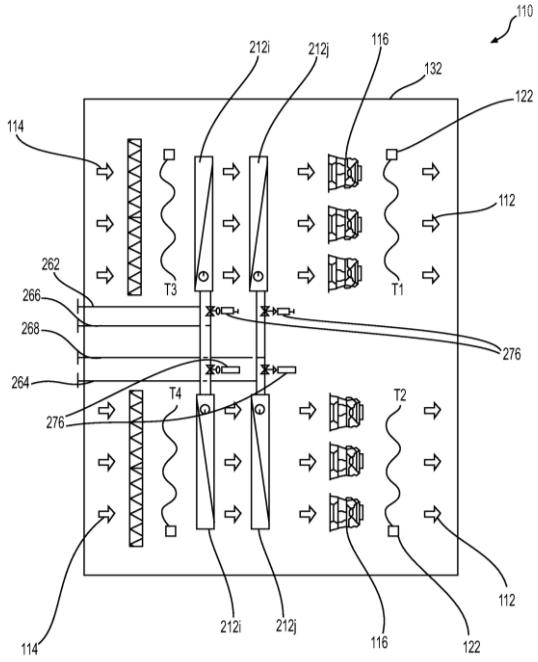
model, batch training through the dataset, and preprocessing the network topology to obtain model parameters. The advantages of the present invention over the prior art are: to provide a link prediction method for complex networks based on link value assessment that is easy to use, can be based on the weights of the nodes that have been learnt to carry out link prediction, and guarantees the prediction results.

21: 2024/00620. 22: 2024/01/18. 43: 2024/07/19
51: G06Q
71: Suzhou University
72: Zhang Zhiwei, Qin Wenbo
54: GRAPH TRANSFORMER-BASED LINK PREDICTION METHOD FOR COMPLEX NETWORKS
00: -

The present invention discloses a graph transformer-based link prediction method for complex networks, comprising constructing a graph transformer model while obtaining data of the original complex network links, transforming the data of the original complex network links into data as input information the data of the original complex network link is transformed as input information and input to the constructed complex network link for training, and after training, the trained complex network link is used to predict the unknown link, specifically, the link to be predicted is used as input, and the link prediction result is obtained through forward propagation of the model. The advantages of the present invention over the prior art are: to provide a graph transformer network that uses a graph transformer network to implement a graph transformer-based link prediction method for complex network link prediction by using its self-attention mechanism, a deep neural network that parallelises the processing of data for complex networks.

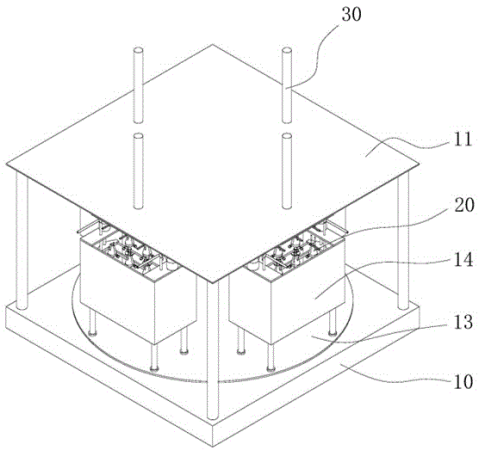
21: 2024/00659. 22: 2024/01/18. 43: 2024/07/19
51: F24F; F28D; H05K
71: MUNTERS CORPORATION
72: BOUCHER, Michael, NEUWALD, Rafael, DUNNAVANT, Bryan, Keith, ROBERTS, John, DINNAGE, Paul, A, FANG, Wei
33: US 31: 17/395,873 32: 2021-08-06
54: ACTIVE/PASSIVE COOLING SYSTEM
00: -

A cooling assembly includes an evaporator containing a primary cooling medium, a passive condenser, a heat exchanger, and a flow control valve controlling the flow of the primary cooling medium into the evaporator. When a secondary cooling medium is provided to the heat exchanger, the primary cooling medium in the gas phase switches from being received by the passive condenser to the heat exchanger without operating any valves located between the evaporator and the passive condenser and between the evaporator and the heat exchanger. The primary cooling medium circulates between the evaporator and the passive condenser and between the evaporator and the heat exchanger by natural circulation and gravity without a pump in the flow path of the primary cooling medium between the heat exchanger and the evaporator and between the passive condenser and the evaporator to circulate the primary cooling medium.



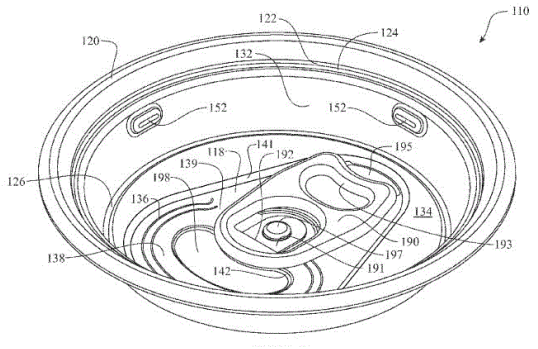
21: 2024/02323. 22: 2024/03/22. 43: 2024/07/03
51: B01F
71: Qingdao Sainuo New Material Co., Ltd, Sainuochem (Shandong) Co., Ltd.
72: Jingguang Jiao, Jianhong Chen
33: CN 31: 2023107474845 32: 2023-06-21
54: A LUBRICANT PREPARATION DEVICE AND PREPARATION METHOD
00: -

The present invention discloses a lubricant preparation device and preparation method, relating to the field of lubricant preparation. The device includes a base and a top plate connected to the top of the base through multiple support pillars at the bottom. The base bottom has a drive motor with an execution end extending to the top of the base. The drive motor has a turntable at the execution end, and the turntable has a ring-shaped array of multiple lubricant tanks. Each lubricant tank has a solid-liquid auxiliary mixing device. The bottom of the top plate has a ring-shaped array of multiple solid-liquid auxiliary feeding devices, which are used to feed the solid-liquid auxiliary into the mixing device. This invention provides a lubricant preparation device and method that facilitate the gradual diffusion of additives in the base oil, effectively preventing residual additives in the additive dispensers, and avoiding long-term stirring.

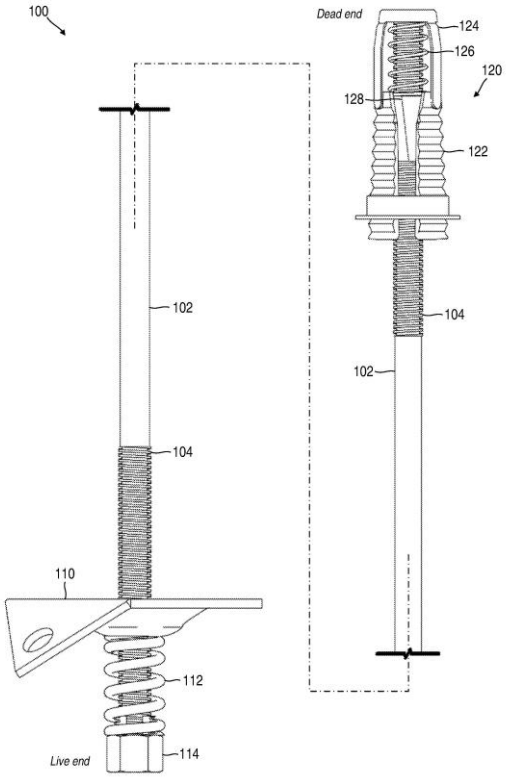


21: 2024/02467. 22: 2024/03/27. 43: 2024/06/11
51: A01N; A01P
71: ELICIT PLANT
72: MOLIN, Aymeric, VILLETTE, Solange, BOUSSIRON, Charlène
33: EP 31: 21306420.7 32: 2021-10-08
54: PHYTOSTEROL-BASED AGRICULTURAL COMPOSITION AND THEIR USE
00: -
Multiphase agricultural composition in the form of a suspo-emulsion, comprising lipophilic droplets containing a mixture of phytosterols, said lipophilic droplets being dispersed in an aqueous phase, the composition further comprising: at least one first surfactant (SF1) located at the interface of the lipophilic droplets and of the aqueous phase and selected from among the SFs that are soluble in the aqueous phase (WATER SF1) and the SFs that are soluble in the lipophilic droplets (OIL SF1); and at least one second surfactant (SF2) suspended in the aqueous phase, said second surfactant having the form of particles insoluble in the aqueous phase.

21: 2024/02475. 22: 2024/03/27. 43: 2024/04/04
51: B65D
71: POWERCAN HOLDING, LLC
72: ZABALETA, Daniel, A., STAMMEN, Dennis, ALBRIGHT, Steven, Todd
33: US 31: 63/248,531 32: 2021-09-26
33: US 31: 17/952,306 32: 2022-09-25
54: THREADED CONTAINER COMPONENTS HAVING FRUSTUM SHAPED SURFACES ENABLING NESTING
00: -
A container lid (110, 210) comprising a frustum shaped sidewall (132, 232), a chuck shoulder (124,224) formed between an upper edge of the sidewall (132,232) and a seaming panel (120, 220), and at least one translative motion guide feature (152, 252) extending radially inward from the sidewall (132, 232). A bottom (lower) edge of the sidewall (132, 232) can be closed by a bottom wall (134) or a rolled annular end ring (226) creating an open passageway design (235). The frustum shaped sidewall (132, 232) and size of the translative motion guide features (152, 252) is designed to enable nesting of multiple container lids (110, 210) I closure (160,260). The lid (110,210) is seamed to a container body (101, 201). The lid (110, 210) and closure (160, 260) each include sealing surfaces (165, 265) designed to engage with one another creating a gas and liquid impervious seal, preferably capable of retaining pressure within a container (100, 200). Alternatively, the translative motion guide feature (352) can be integral with a frustum shaped container body (30 I), such as a cup.

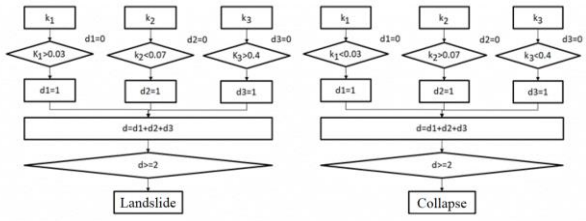


21: 2024/03571. 22: 2024/05/09. 43: 2024/06/27
51: E21D
71: Rocbolt Technologies (Pty) Ltd.
72: BELLINGHAM, Werner Cornelius
54: A ROCK BOLT ASSEMBLY AND ASSOCIATED METHOD
00: -
A rock bolt assembly is for engaging a hole in a rock wall and includes an elongate element, an anchoring part at a dead end, and a washer or rock plate at the live end, the washer or rock plate configured to bear directly against the rock wall. The rock bolt assembly comprises a flange or end stop provided on the elongate element outwardly of the washer or rock plate and a spring provided around the elongate element between the flange and the washer or rock plate. The spring urges the flange and the washer or rock plate apart. When the elongate element is installed in the hole and the spring is compressed against its bias by displacing the flange towards the washer or rock plate, the spring is configured to urge the flange, and hence the elongate element, outwardly thereby tensioning the elongate element and deploying the anchoring part.



21: 2024/03690. 22: 2024/05/13. 43: 2024/07/11
51: G06F
71: CHINA HIGHWAY ENGINEERING CONSULTANTS CORPORATION, CHECC DATA CO., LTD., CHANG'AN UNIVERSITY, CCCG XINGYU TECHNOLOGY CO., LTD.
72: ZHANG, Yunling, CUI, Yuping, HOU, Yun, LI, Zhenhong, DONG, Yuanshuai, DING, Mingtao, ZHANG, Xinlai, HE, Naiwu, YU, Yonghua, DENG, Xiaolong, YUAN, Hang, QIAN, Zhenyu, YAO, Jun-feng, LIU, Ling, CUI, Li, LI, Da-zhuo, SHEN, Jian-bo, HU, Lin
33: CN 31: 202210481780.0 32: 2022-05-05
54: MOUNTAIN LANDSLIDE AND COLLAPSE DISASTER CLASSIFICATION METHOD BASED ON DECISION TREE, AND ELECTRONIC DEVICE
00: -
Disclosed is a mountain landslide and collapse disaster classification method based on a decision tree. The method comprises: step one, acquiring a ground mountain topographical distribution and hillside elevation data, calculating a hillside slope and performing statistical analysis; step two, defining values of k1, k2 and k3; and step three, when at least two of the value of k1 being greater than a first threshold value, the value of k2 being less than a

second threshold value and the value of k3 being greater than a third threshold value, determining that a mountain disaster is a landslide; otherwise, determining that same is collapse. By means of the present invention, collapse and a landslide can be accurately classified by means of acquiring a digital elevation model (DEM) of geological disasters, without the need for manual field survey, such that a large amount of manpower and time are saved on.

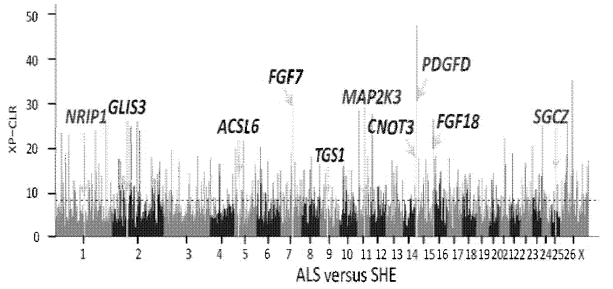


21: 2024/03949. 22: 2024/05/21. 43: 2024/07/10
51: C12N; C12Q
71: CHINA AGRICULTURAL UNIVERSITY
72: LI, Menghua, LI, Xin, LUO, Lingyun, YANG, Ji, LV, Fenghua
33: CN 31: 202110822385.X 32: 2021-07-21

54: GENE CHIP, MOLECULAR PROBE COMBINATION, KIT AND APPLICATION FOR ANALYZING SHEEP FAT TAIL

00: -

A gene chip, a molecular probe combination, a kit and an application for analyzing sheep fat tails. Provided is a combination of 3000 SNP loci for analyzing sheep fat tail traits, the combination of loci being shown in Table 1, and biological products such as a molecular probe combination, a gene chip and a test kit prepared on the basis of the above combination of loci; by using the provided combination of loci and the related biological products, it is possible to perform genetic evaluation, breed screening and identification on individual sheep on a genetic level; in an early difficult-to-measure stage, the present invention can be used to perform individual selection on sheep fat tail traits, control the breeding process, and save breeding costs, and can also be used for sheep breed traceability, sheep pedigree reconstruction, germplasm resource protection and germplasm resource improvement. (FR) L'invention concerne une puce à ADN, une combinaison de sondes moléculaires, un kit et une application pour analyser des queues grasses de mouton. L'invention concerne une combinaison de 3000 locus de SNP pour analyser des caractères de queue grasse de mouton, la combinaison de locus étant illustrée dans le tableau 1, et des produits biologiques tels qu'une combinaison de sondes moléculaires, une puce à ADN et un kit de test préparé sur la base de la combinaison de locus ci-dessus ; en utilisant la combinaison de locus fournie et les produits biologiques associés, il est possible d'effectuer une évaluation génétique, un criblage de sélection et une identification sur un mouton individuels au niveau génétique ; dans un stade précoce difficile à mesurer, la présente invention peut être utilisée pour effectuer une sélection individuelle sur des caractères de queue grasse de mouton, contrôler le processus de sélection, et économiser des coûts d'élevage, et peut également être utilisée pour la traçabilité de sélection des moutons, la reconstruction du pedigree des moutons, la protection des ressources du matériel génétique et l'amélioration des ressources du matériel génétique.



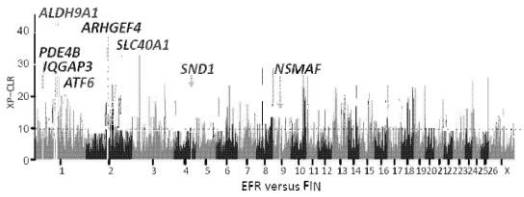
21: 2024/03950. 22: 2024/05/21. 43: 2024/07/05
51: C12N; C12Q
71: CHINA AGRICULTURAL UNIVERSITY
72: LI, Menghua, LI, Xin, LUO, Lingyun, YANG, Ji, LV, Fenghua
33: CN 31: 202110822450.9 32: 2021-07-21

54: GENE CHIP, MOLECULAR PROBE COMBINATION, KIT AND APPLICATION FOR ANALYZING MILK PRODUCTION PERFORMANCE OF SHEEP

00: -

A gene chip, molecular probe combination and kit for analyzing sheep milk production performance, and a use, relating to the technical field of biology. A combination of 2030 SNP sites capable of analyzing sheep milk production performance characteristics is provided, and the physical position information thereof is determined on the basis of the comparison of sheep v4.0 genome sequences. By using the combination of 2030 SNP sites, and the molecular

probe combination, gene chip and kit formed on the basis of the combination of sites, a genetic assessment on individual sheep can be performed, and individual selection on the milk production performance traits that are difficult to measure in the early stage can be made, thereby controlling the breeding process and saving the breeding cost.



21: 2024/03951. 22: 2024/05/21. 43: 2024/07/05
51: C12N; C12Q
71: CHINA AGRICULTURAL UNIVERSITY
72: LI, Menghua, YANG, Ji, LV, Fenghua, JING, Jianan
33: CN 31: 202110822959.3 32: 2021-07-21

54: GENE CHIP, MOLECULAR PROBE COMBINATION, KIT AND APPLICATION OF SHEEP GERMPLASM RESOURCES IDENTIFICATION AND PEDIGREE RECONSTRUCTION

00: -

A gene chip, molecular probe combination, kit for sheep germplasm resource identification and pedigree reconstruction, and a use. Provided are 4213 SNP sites, and a gene chip, molecular probe combination, and kit prepared on the basis of the SNP sites. The physical positions of the sites are shown in Table 1. The present solution can be used for sheep germplasm resource identification and sheep pedigree reconstruction, and also can perform variety identification, variety tracing and sheep breeding control on sheep individuals and products thereof.

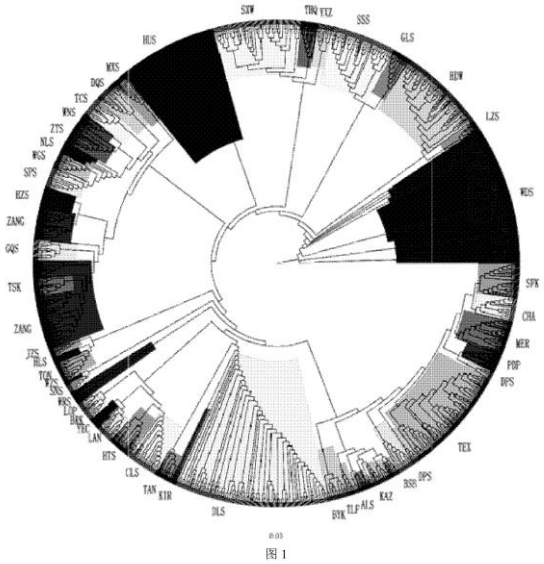


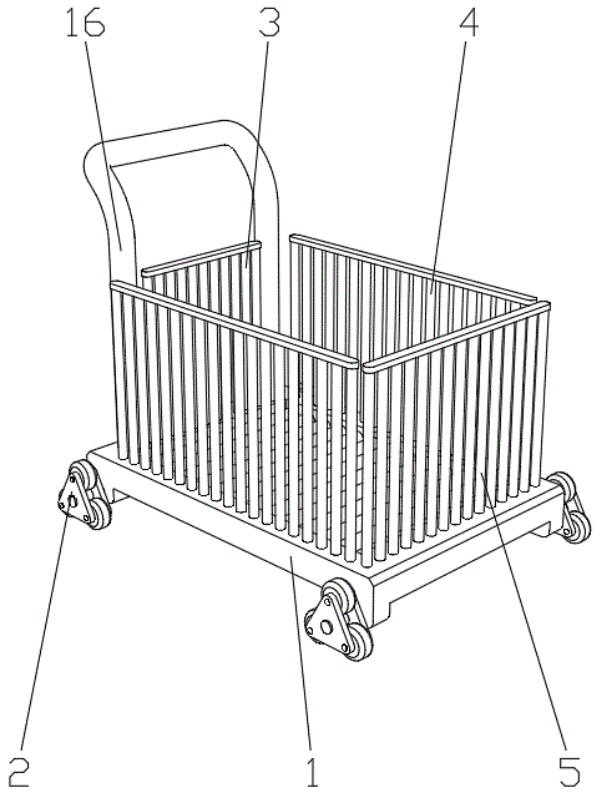
图 1

21: 2024/04651. 22: 2024/06/14. 43: 2024/07/11
51: B62B
71: Xinyu University
72: Gong Xiaohua

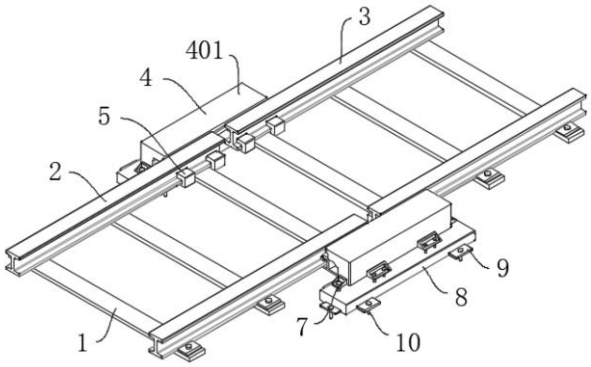
54: CARRIER FOR MANAGING BOOKS IN LIBRARY

00: -

The present invention provides a carrier for managing books in a library, including a carrier base framework. Roller assemblies are connected to side ends of the carrier base framework in a rotating manner, an inner blocking frame is inserted into an upper end of the carrier base framework, side blocking frames are inserted into the other upper ends of the carrier base framework, and an outer blocking frame is inserted into another upper end of the carrier base framework; and the roller assemblies include connecting main rotating shafts. In the present invention, a carrier is pulled or pushed by grasping a cart handle, when the carrier is on a flat ground, the roller assemblies will always keep two groups of carrier rollers rolling on the ground under the influence of gravity and friction; and when the carrier encounters a small slope or a step, three groups of carrier rollers can rotate and roll around connecting main rotating shafts via triangular connecting plates by the connecting main rotating shafts connected in a rotating; and the carrier is carried more easily to climb the slope and up the step, supporting and rotating rollers are arranged in multiple groups, and books can be bundled and pulled out more easily.



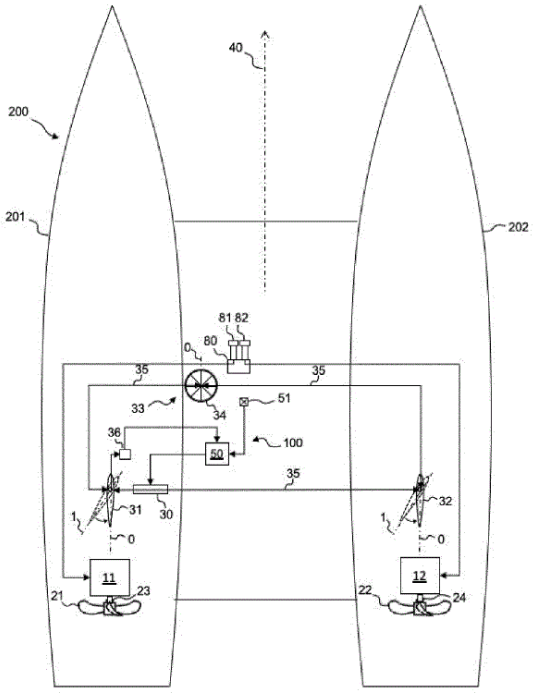
21: 2024/04703. 22: 2024/06/18. 43: 2024/06/20
51: E01B; F16F
71: CHINA RAILWAY FIRST GROUP CO., LTD, CHINA RAILWAY FIRST GROUP XINYUN ENGINEERING CO., LTD
72: GAO, Zhifeng, FENG, Weihe, GUO, Zifei, PENG, Fangjun, YU, Ziyong, ZHANG, Fei, AN, Huan, LI, Yongjin, YIN, Tailong, KANG, Kang, ZHAO, Boning, MA, Zheng, LI, Leilei
33: CN 31: 202311125362.9 32: 2023-09-01
54: RAIL TEMPERATURE EXPANSION JOINT AND LAYING AND MOUNTING METHOD
00: -
A rail temperature expansion joint and a laying and mounting method thereof are disclosed by the present disclosure which relate to the technical field of track transit. The rail temperature expansion joint of the present disclosure includes a sleeper, the upper surface of the sleeper is symmetrically mounted with two first rails and two second rails, and the first rail and the second rail on one side are arranged on the same straight line; a gap is arranged between end faces of the first rail and the second rail; the adjacent ends of the first rail and the second rail are fastened and positioned by a group of adjustment components, the adjustment components are fixedly mounted on the embedded part, and the embedded part is located at the outer side of the first rail and the second rail. The rail temperature expansion joint and a laying and mounting method thereof of the present disclosure connects a first rail and a second rail with a side plate through two groups of connecting rods, so that when a train passes by, the connecting rods drive a sliding plate to slide in a sliding groove at the outer end of the side plate, meanwhile, the buffer spring stretches, which prevents the train from derailing due to an overlarge gap generated when the first rail and the second rail are pulled; compared with steel plate connection, the connecting rod has longer service life.



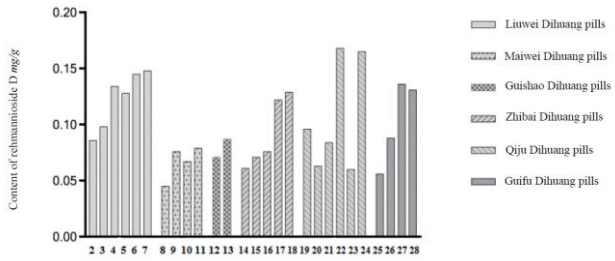
21: 2024/04716. 22: 2024/06/18. 43: 2024/06/28
51: A41D
71: YANG, Mingyu
72: YANG, Mingyu
33: CN 31: 202111448692.2 32: 2021-11-18
33: CN 31: PCT/CN2021/141008 32: 2021-12-23
33: CN 31: 202210034107.2 32: 2022-01-13
33: CN 31: 202221523693.9 32: 2022-06-18
33: CN 31: 202211269160.7 32: 2022-10-17
54: MASK HAVING LV STRUCTURE AND DEVICE THEREOF
00: -
A magnetic material and method prepares high-performance composite ferrite for a self-biased circulator. The preparation method includes: (1) preparing BaM ferrite initial powder and NiCuZnSn ferrite initial powder, respectively; (2) mixing the BaM ferrite initial powder, the NiCuZnSn ferrite initial powder and deionized water uniformly in proportion, performing ball milling in a high-energy ball mill, and then obtaining mixed powder after primary pre-sintering, secondary pre-sintering and secondary ball milling; and (3) obtaining the high-performance composite ferrite for the self-biased circulator by a

low-temperature magnetic field orientation forming technology and magnetic field heat treatment. According to the present invention, the saturated magnetization intensity is enhanced better by compounding the BaM ferrite powder and the NiCuZnSn ferrite powder and through a high-energy ball milling technology, the low-temperature magnetic field orientation forming technology and the magnetic field heat treatment technology, thereby improving the microstructure and the magnetic characteristic of bi-phase composite ferrite.

21: 2024/04930. 22: 2024/06/24. 43: 2024/06/25
51: B63B; B63H
71: CURCIO, Mario
72: CURCIO, Mario
33: EP 31: 22020002.6 32: 2022-01-09
54: STEERING-SUPPORT SYSTEM FOR MARINE VESSELS
00: -
Disclosed is a steering-support system for facilitating manual steering of a marine vessel comprising motors and independent manual throttle and shift control units, rudders and manual rudder-steering means mechanically and/or hydraulically connected to the rudders for direct rudder-angle control. The steering-support system comprises electronic rudder-angle reset means connected to at least one automated rudder drive unit, which, when activated, disables use of the manual rudder-steering means and automatically controls the rudder drive unit to steer the rudders from any current off-center position to a mid position at which the rudders are parallel to a longitudinal axis of the vessel and to block the rudders at this mid position, thereby enabling steering of the marine vessel solely by the manual throttle and shift control units in absence of rudder influence on steering.



21: 2024/05045. 22: 2024/06/27. 43: 2024/07/03
51: G01N
71: Henan Integrative Medicine Hospital
72: Liu Ming, Wang Huisen, Sun Wei, Liang Ruifeng, Ge Wenjing, Li Gengsheng, Tang Suqin
33: CN 31: 2023108233225 32: 2023-07-06
54: METHOD FOR CONTROLLING QUALITY OF REHMANNIAE RADIX PRAEPARATA IN DIHUANG PILLS PRESCRIPTION
00: -
The present invention belongs to the technical field of quality control of Chinese medicine preparations, and specifically relates to a method for controlling quality of Rehmanniae Radix Praeparata in a Dihuang pills prescription, including the steps of: performing qualitative identification on components of verbascoside by a sample solution to be tested I obtained by performing pretreatment I on a Dihuang pills prescription to be tested, and performing quantitative determination on components of rehmannioside D by a sample solution to be tested II obtained by performing pretreatment II on a Dihuang pills prescription to be tested. In the present invention, multiple sample solutions of Dihuang pills prescriptions can be simultaneously prepared and the rapid detection is realized by using uniform qualitative and quantitative methods.

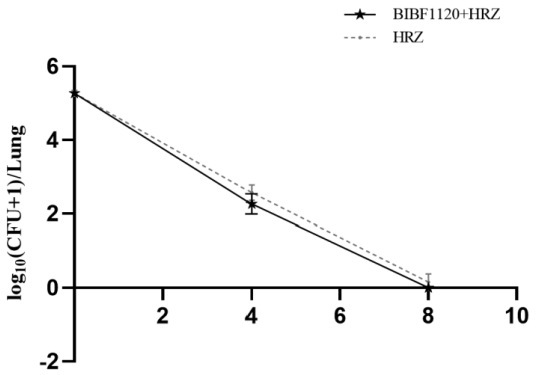


21: 2024/05173. 22: 2024/07/02. 43: 2024/07/05
51: A61K; A61P
71: BEIJING CHEST HOSPITAL, CAPITAL MEDICAL UNIVERSITY, BEIJING TUBERCULOSIS CHEST CANCER INSTITUTE
72: LU, Yu, CHEN, Xiaoyou, QI, Xueting, ZHENG, Luyao, FU, Lei, ZHANG, Weiyan, WANG, Ning
33: CN 31: 202210463752.6 32: 2022-04-29

54: USE OF ANTI-IDIOPATHIC PULMONARY FIBROSIS DRUG NINTEDANIB IN TREATMENT OF TUBERCULOSIS

00: -

Provided is a use of nintedanib or a pharmaceutically acceptable salt thereof in preparing a drug for treating tuberculosis. The nintedanib or the pharmaceutically acceptable salt thereof is used in combination with a further anti-tuberculosis drug for treating tuberculosis, or used as an adjuvant drug for the treating tuberculosis, where the further anti-tuberculosis drug is selected from a group consisting of: rifampicin, isoniazid, pyrazinamide, ethambutol, fluoroquinolone, streptomycin, kanamycin, amikacin, capreomycin, sodium para-aminosalicylate, ethionamide, cycloserine, clofazimine, and linezolid.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

ADVERTISEMENT OF AN AMENDMENT APPLICATION MADE BY SEAN WILLIAM HONEYWELL DURING PENDING PROCEEDINGS BEFORE THE COURT OF THE COMMISSIONER OF PATENTS

Sean William Honeywell of 161 Falcon Crescent, Brettenwood Coastal Estate, Sheffield Beach, 4390, KZN, South Africa ("the patentee") and Wemvula Fintech (Pty) Ltd of 17 Patricia Road, Ballito, Dolphin Coast, 4399, KwaZulu Natal, South Africa instituted patent infringement proceedings against Yoco Technologies (Pty) Ltd of 7th floor, Shortmarket Street, Cape Town, 8001, Western Cape, South Africa, in respect of South African Patent No. 2019/08429 entitled "*A Financial Transaction System and Method*" ("the patent").

The patentee has applied to the Court of the Commissioner of Patents to amend the patent in terms of Section 51(9) of the Patents Act No. 57 of 1978

The application for amendment is open for inspection at the Patent Office, Block F Entfutfukweni, 77 Meintjies Street, Sunnyside, Pretoria. Copies can also be obtained on request from the Patent Attorneys for the patentee whose address is set out below.

Any interested person wishing to oppose the application for amendment may join in the amendment proceedings by filing a Notice of Intention to oppose the application for amendment within two months from the date hereof. The further proceedings are to be governed by the provisions of Rule 6 of the Uniform Rules of Court.

Address for Service in the Republic:
Adams & Adams Attorneys, Lynwood Bridge, 4 Daventry Street, Lynnwood Manor, Pretoria, Reference: PL2362ZA00 D Dohmen. Email: Danie.Dohmen@adams.africa.

3. DESIGNS

DESIGNS

APPLICATIONS FOR REGISTRATION OF DESIGNS IN TERMS OF ACT No. 195 OF 1993

The particulars appear in the following sequence: Copies of the application and representations cannot be supplied until application is registered and advertised. In all correspondence reference should be made to the number of the application. Application number, full name of applicant, class, articles to which design is to be applied and priority date (if any)

. - APPLIED ON 2024/06/24 -

F2024/00610 - GIDEON HITCHCOCK Class 07. HEAT TRAY SUPPORTING LEGS

A2024/00619 - SRNE SOLAR CO., LTD Class 13. ENERGY STORAGE DEVICE

F2024/00615 - AMBERSKIES TRADING CC Class 8. BRACES FOR BALLAST TANKS

A2024/00611 - MPACT PLASTIC CONTAINERS CASTLEVIEW PROPRIETARY LIMITED Class 9. CRATES

A2024/00617 - SERRA MANUFACTURING (PTY) LIMITED Class 9. CONTAINER

A2024/00614 - AMBERSKIES TRADING CC Class 8. BRACES FOR BALLAST TANKS

F2024/00612 - MPACT PLASTIC CONTAINERS CASTLEVIEW PROPRIETARY LIMITED Class 9. CRATES

F2024/00613 - BOS, Tyron Class 25. A SECURING DEVICE

A2024/00618 - SRNE SOLAR CO., LTD Class 13. ENERGY STORAGE DEVICE

A2024/00616 - AMBERSKIES TRADING CC Class 23. WATER FILTERS

. - APPLIED ON 2024/06/25 -

F2024/00621 - GRACE HAVEN INDUSTRIES (PTY) LTD Class 8. GUIDE FOR A SLIDING DOOR

A2024/00620 - GRACE HAVEN INDUSTRIES (PTY) LTD Class 8. GUIDE FOR A SLIDING DOOR

. - APPLIED ON 2024/06/26 -

A2024/00628 - Sky CP Limited Class 14. TELEVISIONS

A2024/00631 - Sky CP Limited Class 14. TELEVISIONS

A2024/00623 - BYD COMPANY LIMITED Class 12. AUTOMOBILE

A2024/00627 - Sky CP Limited Class 14. TELEVISIONS

A2024/00630 - Sky CP Limited Class 14. TELEVISIONS

A2024/00629 - Sky CP Limited Class 14. TELEVISIONS

A2024/00633 - Sky CP Limited Class 14. TELEVISIONS

A2024/00625 - UNILEVER GLOBAL IP LIMITED Class 09. BOTTLE

A2024/00622 - HUNAN ZHUOYE ELECTRONICS CO., LTD Class 27. WINDPROOF COVER FOR A LIGHTER

A2024/00626 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE

A2024/00624 - UNILEVER GLOBAL IP LIMITED Class 9. BOTTLE

A2024/00632 - Sky CP Limited Class 14. TELEVISIONS

. - APPLIED ON 2024/06/27 -

A2024/00636 - SWAN PLASTICS (PTY) LTD Class 23. A VENT FITTING SET

A2024/00649 - SWAN PLASTICS (PTY) LTD Class 25. A VENT CONNECTOR

F2024/00634 - PAULCO (PROPRIETARY) LIMITED Class 15. SPLITTER ASSEMBLIES FOR SEPARATORS

A2024/00639 - SWAN PLASTICS (PTY) LTD Class 23. A VENT CONNECTOR

A2024/00642 - SWAN PLASTICS (PTY) LTD Class 23. A VENT FITTING SET

A2024/00646 - SWAN PLASTICS (PTY) LTD Class 25. A VENT FITTING SET

A2024/00650 - SWAN PLASTICS (PTY) LTD Class 25. A VENT FITTING SET

A2024/00647 - SWAN PLASTICS (PTY) LTD Class 25. A VENT FITTING SET

A2024/00653 - SWAN PLASTICS (PTY) LTD Class 25. A VENT STRAP SADDLE

F2024/00644 - WERNER WATER RECYCLING (PTY) LTD. Class 23. AIR PURIFIERS

A2024/00651 - SWAN PLASTICS (PTY) LTD Class 25. A VENT FITTING SET

A2024/00641 - SWAN PLASTICS (PTY) LTD Class 23. A VENT FITTING SET

A2024/00643 - SWAN PLASTICS (PTY) LTD Class 23. A VENT STRAP SADDLE

A2024/00645 - SWAN PLASTICS (PTY) LTD Class 25. A VENT FITTING SET

A2024/00635 - SWAN PLASTICS (PTY) LTD Class 23. A VENT FITTING SET

A2024/00637 - SWAN PLASTICS (PTY) LTD Class 23. A VENT FITTING SET

A2024/00638 - SWAN PLASTICS (PTY) LTD Class 23. A VENT CONNECTOR

A2024/00648 - SWAN PLASTICS (PTY) LTD Class 25. A VENT CONNECTOR

A2024/00652 - SWAN PLASTICS (PTY) LTD Class 25. A VENT FITTING SET

A2024/00640 - SWAN PLASTICS (PTY) LTD Class 23. A VENT FITTING SET

. - APPLIED ON 2024/06/28 -

A2024/00654 - Sandvik Mining and Construction Oy Class 15. PRESSURE ACCUMULATORS FOR ROCK DRILLS

. - APPLIED ON 2024/07/01 -

A2024/00659 - BYD COMPANY LIMITED Class 12. AUTOMOBILE

A2024/00662 - KAP Automotive (Pty) Ltd Class 12. HONEYCOMB NUDGE BAR

A2024/00663 - KAP Automotive (Pty) Ltd Class 12. HONEYCOMB SPORTS BAR

A2024/00660 - CEAT LIMITED Class 12. TYRE

A2024/00661 - BYD COMPANY LIMITED Class 12. AUTOMOBILE

F2024/00658 - WAVE PAPER (PTY) LTD Class 7. A BLANK FOR A BAKING TRAY

A2024/00655 - THIERNO IBRAHIMA DIALLO Class 15. WASHING MACHINE

A2024/00656 - THEIRNO IBRAHIMA DIALLO Class 15. WASHING MACHINE BOARD

A2024/00664 - THEIRNO IBRAHIMA DIALLO Class 15. WASHING MACHINE BOARD

A2024/00657 - THEIRNO IBRAHIMA DIALLO Class 15. WASHING MACHINE SPINNER

A2024/00665 - THEIRNO IBRAHIMA DIALLO Class 15. WASHING MACHINE BIN

. - APPLIED ON 2024/07/02 -

F2024/00668 - New Trend Manufacturing Class 31. STOVE

A2024/00666 - BATHU SWAG (PTY) LIMITED Class 2. FOOTWEAR

A2024/00667 - Versuni Holding B.V. Class 07. ELECTRIC STEAM IRON

A2024/00669 - HICONICS ECO-ENERGY DRIVE TECHNOLOGY CO., LTD., HICONICS ECO-ENERGY TECHNOLOGY CO., LTD. Class 13. POWER DISTRIBUTION CABINET

. - APPLIED ON 2024/07/04 -

A2024/00671 - Vinfast Trading and Production Joint Stock Company Class 12. PICK-UP TRUCK

A2024/00670 - Crocs, Inc. Class 2. FOOTWEAR

. - APPLIED ON 2024/07/05 -

A2024/00673 - ETA SA MANUFACTURE HORLOG?RE SUISSE Class 20. DISPLAY STAND FOR A WATCH

A2024/00674 - BLANCPAIN SA Class 10. WATCH

F2024/00672 - COLIN GREGORY PRITCHARD Class 08. WELDING BRACKET

. - APPLIED ON 2024/07/11 -

A2024/00678 - Enphase Energy, Inc. Class 13. PORTABLE ENERGY STORAGE DEVICES

A2024/00676 - CITY OF BULAWAYO COMMERCIALISED ENTITIES t/a INGWEBU BREWERIES Class 09. BOTTLE

F2024/00675 - MISOLAR TRADING (PTY) LTD Class 08. PLUGS FOR FASTENERS

. - APPLIED ON 2024/07/15 -

F2024/00679 - Cooper Collins (pty) ltd Class 29. LEG SPLINT

. - APPLIED ON 2024/07/16 -

A2024/00683 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

A2024/00682 - LEDAR TRADE (PTY) LTD Class 2. FOOTWEAR

A2024/00684 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

A2024/00680 - The Active Business Trust Class 09. BOTTLE 530 G

A2024/00696 - TYME PTE LIMITED Class 14. KIOSKS

A2024/00697 - TYME PTE LIMITED Class 14. KIOSKS

A2024/00688 - NT DESIGN STUDIO (PROPRIETARY) LIMITED Class 26. LIGHT FIXTURE

A2024/00690 - TYME PTE LIMITED Class 14. KIOSKS

A2024/00694 - TYME PTE LIMITED Class 13. BATTERY HOUSINGS

A2024/00693 - TYME PTE LIMITED Class 14. KIOSKS

A2024/00692 - TYME PTE LIMITED Class 14. KIOSKS

A2024/00691 - TYME PTE LIMITED Class 14. KIOSKS

A2024/00689 - NT DESIGN STUDIO (PROPRIETARY) LIMITED Class 26. LIGHT FIXTURE

A2024/00687 - NT DESIGN STUDIO (PROPRIETARY) LIMITED Class 26. LIGHT FIXTURE

A2024/00695 - TYME PTE LIMITED Class 13. BATTERY HOUSINGS

A2024/00681 - The Active Business Trust Class 09. BOTTLE (5 LTR)

A2024/00685 - Bayerische Motoren Werke Aktiengesellschaft Class 12. MOTOR VEHICLES

A2024/00686 - SMEG S.p.A. Class 7. COFFEE MACHINES

. - APPLIED ON 2024/07/17 -

F2024/00698 - PURPLEGLAZE 3 (PTY) LTD Class 22. BLASTING ACCESSORIES

A2024/00699 - TLV CO., LTD. Class 10. MEASURING INSTRUMENT

A2024/00700 - APPLE INC. Class 14. BAND FOR A HEAD-MOUNTED DISPLAY

A2024/00701 - APPLE INC. Class 14. HEAD-MOUNTED DISPLAY

A2024/00709 - Motion Adspace (Pty) Ltd Class 12. HEXAGONAL FIN (BOOSTER FIN)

A2024/00736 - Maurischen Smuts Class 02. PASTEL RAINBOW AFRO SMART BEAUTIFUL QUEEN

F2024/00702 - VAN EEDEN, Christiaan Hieronymans Bornman Class 21. BALL COLLECTOR AND DISPENSER

. - APPLIED ON 2024/07/18 -

F2024/00703 - Jurie Johannes Greyling, Melt Malan Class 08. AGGRESSIVE ADJUSTABLE TROUGH/RETURN STEERING FRAME

F2024/00707 - Jurie Johannnes Greyling, Melt Malan Class 08. CONVEYOR BELT CLEANER PROPELLED BY THE BELT

A2024/00705 - SUNREEF YACHTS RMC FZC Class 12. CATAMARAN

A2024/00708 - Zhejiang HRV Electric Co., Ltd Class 13. INVERTERS

A2024/00704 - SUNREEF YACHTS RMC FZC Class 12. CATAMARAN

A2024/00706 - SUNREEF YACHTS RMC FZC Class 12. CATAMARAN

. - APPLIED ON 2024/07/19 -

A2024/00717 - Eli Lilly and Company Class 24. MEDICATION DELIVERY DEVICES

A2024/00720 - Eli Lilly and Company Class 24. LABELS FOR MEDICATION DELIVERY DEVICES

F2024/00722 - POLYOAK PACKAGING (PTY) LTD Class 09. A BOTTLE

A2024/00719 - Eli Lilly and Company Class 24. MEDICATION DELIVERY DEVICES

A2024/00718 - Eli Lilly and Company Class 24. MEDICATION DELIVERY DEVICES

A2024/00710 - VECTO TRADE 461 PROPRIETARY LIMITED Class 8. A BODY FOR A KNIFE

A2024/00714 - Eli Lilly and Company Class 24. MEDICATION DELIVERY DEVICES

A2024/00721 - POLYOAK PACKAGING (PTY) LTD Class 09. A BOTTLE

A2024/00716 - Eli Lilly and Company Class 24. MEDICATION DELIVERY DEVICES

A2024/00711 - Eli Lilly and Company Class 24. MEDICATION DELIVERY DEVICES

A2024/00713 - Chery Automobile Co., Ltd. Class 12. AUTOMOBILES

F2024/00712 - VECTO TRADE 461 PROPRIETARY LIMITED Class 8. A BODY FOR A KNIFE

A2024/00715 - Eli Lilly and Company Class 24. MEDICATION DELIVERY DEVICES

. - APPLIED ON 2024/07/22 -

F2024/00725 - GOSSAMER MACHINERY (PTY) LTD Class 12. CONTAINER HANDLING MECHANISM

A2024/00723 - Vinfast Trading and Production Joint Stock Company Class 12. AUTOMOBILE

F2024/00726 - Mohomed Ebrahim Hoosen Class 10. WATER LEVEL SENSOR

A2024/00724 - YETI COOLERS, LLC Class 7. INSULATING CONTAINER

. - APPLIED ON 2024/07/23 -

A2024/00729 - BOWLER PLASTICS (PTY) LTD Class 09. CONTAINER

F2024/00728 - BOWLER PLASTICS (PTY) LTD Class 09. CONTAINER

A2024/00727 - BOWLER PLASTICS (PTY) LTD Class 09. CONTAINER

A2024/00734 - Munters Europe Aktiebolag Class 23. AIR TREATMENT SYSTEMS

A2024/00731 - LEDGER Class 14. INFORMATION PROCESSING DEVICE

F2024/00730 - BOWLER PLASTICS (PTY) LTD Class 09. CONTAINER

A2024/00733 - Munters Europe Aktiebolag Class 23. AIR TREATMENT SYSTEMS

A2024/00732 - Munters Europe Aktiebolag Class 23. AIR TREATMENT SYSTEMS

. - APPLIED ON 2024/07/25 -

F2024/00735 - YORK, Natasha Class 30. LIVESTOCK FEEDER

. - APPLIED ON 2024/07/26 -

A2024/00739 - DART INDUSTRIES INC. Class 7. BEVERAGE DISPENSER

A2024/00740 - Chery Automobile Co., Ltd. Class 12. AUTOMOBILES

A2024/00737 - Versuni Holding B.V. Class 07. GARMENT STEAMER

F2024/00741 - SINESIPHO ZWANE Class 28. MOMMY LAINE POSTPARTUM CARE KIT

A2024/00738 - Versuni Holding B.V. Class 07. GARMENT STEAMER

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

No records available

NOTICE OF REGISTRATION OF DESIGNS

Notice of registration of the designs mentioned below has been issued by the Registrar of Designs in terms of the Designs Act, 1993 (Act No. 195 of 1993)

INSPECTION OF DESIGNS

A design application, may after a notice of registration has been published, be inspected during office hours at the Designs Office, Pretoria, at a charge of R3, 00

COPIES OF DOCUMENTS

The Designs Office, Private Bag X400, Pretoria, supplies photocopies of all design documents at R1, 00 per page.

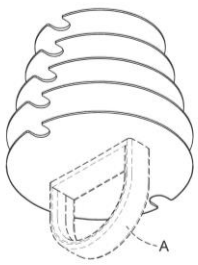
The numerical references denote the following: **(21)** Number of application. **(22)** Date of lodgment. **(23)** release date (if applicable). **(43)** Date of registration. **(52)** Class. **(24)** Type of design. **(71)** Name(s) of applicant(s). **(33)** Country. **(31)** Number and. **(32)** Date of convention application. **(54)** Articles to which design is to be applied. **(57)** Brief statement of features.

N.B.: Date of registration (DR) is either Date of lodgment (22) or Date of convention of application (32) whichever is the earlier.

Registrar of Designs

21: A2021/01439 22: 2021-11-18 23:
43: 2022-06-14
52: Class 08 24: Part A
71: EARTH WORKS TECHNOLOGIES (PTY) LIMITED
54: PLUG
57: The features of the design for which protection is claimed reside in the shape and/or configuration of the plug substantially as shown in the accompanying representations. The handle (depicted in broken lines and designated as “A”) does not form part of the design and is specifically excluded from the protection sought.

TOP PERSPECTIVE VIEW



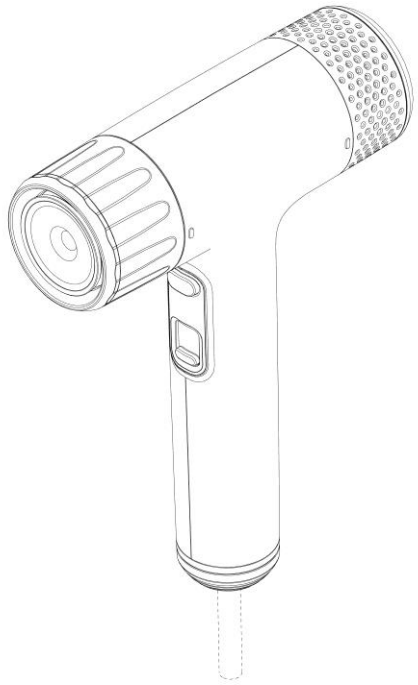
BOTTOM PERSPECTIVE VIEW

21: A2022/00068 22: 2022-01-24 23:
43: 2024-07-03
52: Class 07 24: Part A
71: Philips Domestic Appliances Holding B.V.
33: EU 31: 008631360 32: 2021-07-26
54: PRESSURE COOKER
57: The design is for a pressure cooker. The pressure cooker has a generally oval lid attached to a generally oval base via a hinge protruding from the rear of the cooker such that in a closed configuration, the lid closes short of the front of the base. The lid is provided with a semi-recessed lid opener.

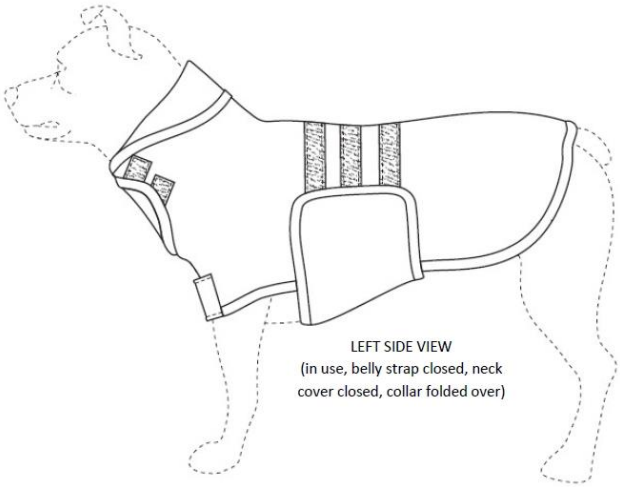
Perspective view

21: A2022/00111 22: 2022-02-02 23:
43: 2022-10-03
52: Class 28 24: Part A
71: GA.MA S.R.L. UNIPERSONALE
33: IT 31: 008638688-0001 32: 2021-08-03
54: HAIR DRIERS
57: The features of the design for which protection is claimed reside in the shape and/or configuration of the hair drier substantially as shown in the accompanying representations. The electrical cord

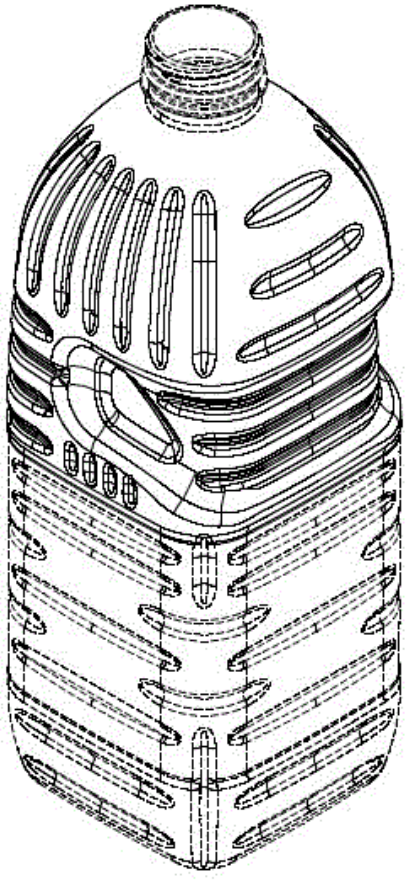
(indicated in broken lines) does not form a part of the design, and this aspect is specifically disclaimed as forming part of the design protection sough



21: A2022/00259 22: 2022-03-14 23: 2021-10-29
43: 2024-06-18
52: Class 30 24: Part A
71: MOULD A FOAM CC
54: PET GARMENT
57: The features of this design for which protection are claimed include the shape and/or configuration of a pet garment substantially as illustrated in the accompanying representations.



21: A2022/00994 22: 2022-08-26 23: 2022-08-18
43: 2022-08-18
52: Class 9 24: Part A
71: Nampak Products Limited
54: CONTAINERS
57: A container is in the form of an upright bottle having a squircle-shaped footprint. A main depression is provided on a front of the bottle, above the halfway mark, the main depression wrapping around sides of the bottle halfway to a rear. Further depressions, being roughly teardrop-shaped, are provided in each side of the main depression. Vertical grooves are provided on each side below the main depression. Horizontal grooves are provided at a front of the main depression and four further horizontal grooves are provided at the rear of the bottle, wrapping around the sides to meet the main depression. Shoulders of the bottle are convex and define a series of grooves, namely upright grooves on their sides and three horizontal tapering grooves on each of a front and rear.



21: A2023/00056 22: 2023-01-12 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE

33: EU 31: 009094048-0002 32: 2022-07-21
54: WASHBASIN
57: The novelty of the design resides in the shape or configuration of a washbasin substantially as shown in the accompanying representation.

21: A2023/00057 22: 2023-01-12 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009094048-0003 32: 2022-07-21
54: WASHBASIN
57: The novelty of the design resides in the shape or configuration of a washbasin substantially as shown in the accompanying representation.

21: A2023/00058 22: 2023-01-12 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009094048-0005 32: 2022-07-21
54: WASHBASIN
57: The novelty of the design resides in the shape or configuration of a washbasin substantially as shown in the accompanying representation.

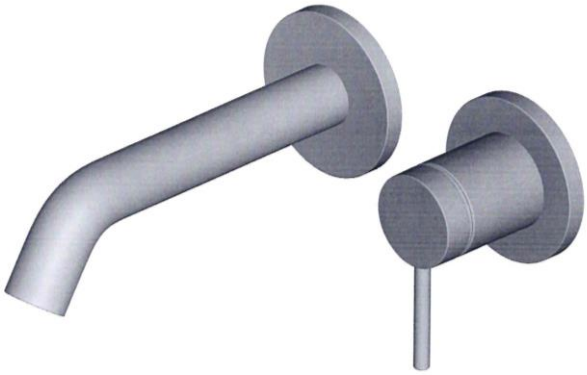
21: A2023/00059 22: 2023-01-12 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009094048-0007 32: 2022-07-21
54: WASHBASIN
57: The novelty of the design resides in the shape or configuration of a washbasin substantially as shown in the accompanying representation.

21: A2023/00419 22: 2023-03-16 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009183379-0001 32: 2022-09-23
54: FAUCET
57: The novelty of the design resides in the shape or configuration of a faucet substantially as shown in the accompanying representation.

21: A2023/00420 22: 2023-03-16 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009183379-0002 32: 2022-09-23
54: FAUCET
57: The novelty of the design resides in the shape or configuration of a faucet substantially as shown in the accompanying representation.

21: A2023/00421 22: 2023-03-16 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009183379-0008 32: 2022-09-23
54: FAUCET

57: The novelty of the design resides in the shape or configuration of a faucet substantially as shown in the accompanying representation.

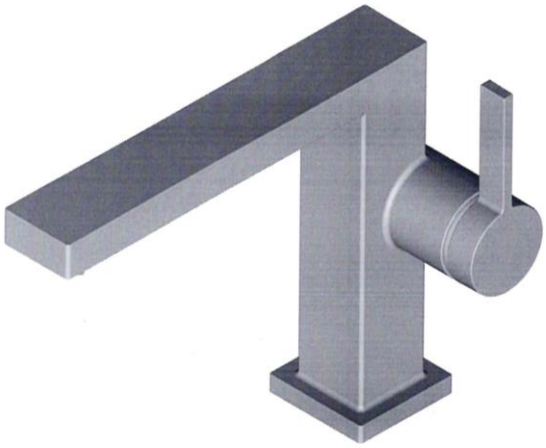


21: A2023/00422 22: 2023-03-16 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009183379-0003 32: 2022-09-23
54: FAUCET
57: The novelty of the design resides in the shape or configuration of a faucet substantially as shown in the accompanying representation.

21: A2023/00423 22: 2023-03-16 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009183379-0012 32: 2022-09-23
54: FAUCET

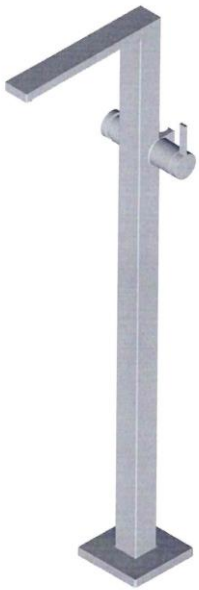
57: The novelty of the design resides in the shape or configuration of a faucet substantially as shown in the accompanying representation.

21: A2023/00425 22: 2023-03-16 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009183379-0015 32: 2022-09-23
54: FAUCET
57: The novelty of the design resides in the shape or configuration of a faucet substantially as shown in the accompanying representation.



21: A2023/00426 22: 2023-03-16 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009183379-0016 32: 2022-09-23
54: FAUCET
57: The novelty of the design resides in the shape or configuration of a faucet substantially as shown in the accompanying representation.

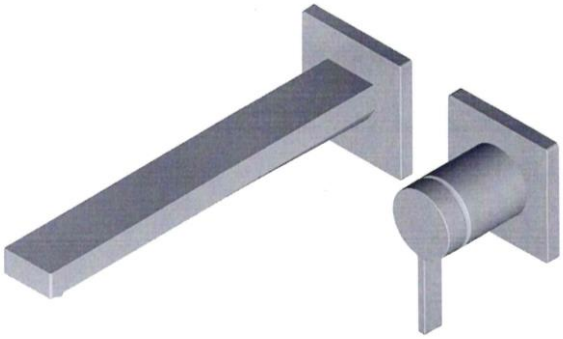
21: A2023/00427 22: 2023-03-16 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009183379-0020 32: 2022-09-23
54: FAUCET
57: The novelty of the design resides in the shape or configuration of a faucet substantially as shown in the accompanying representation.



21: A2023/00428 22: 2023-03-16 23:
43: 2024-04-16
52: Class 23 24: Part A
71: HANSGROHE SE
33: EU 31: 009183379-0022 32: 2022-09-23

54: FAUCET

57: The novelty of the design resides in the shape or configuration of a faucet substantially as shown in the accompanying representation.



21: A2023/00468 22: 2023-04-14 23:
43: 2022-10-17
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015000647-0006 32: 2022-10-17

54: AUTOMOBILES

57: The design is for an automobile and in particular for a four door vehicle having a silhouette with a tapered bonnet, a bow-shaped flowing windscreen and roofline, and a gently curved, coupé-like, truncated rear. A pair of rearwardly extending, recessed, pentagonal headlights with tapered front ends are provided at a front of the car. A pair of arrowhead-shaped members each housing an air-intake grille extend downwardly from the headlights, flanking an upper portion of a central hexagonal radiator grille, a lower half of each member extending forwardly. A short upper swage line and a lower swage line extend along each side of the car. The rear includes a slim upwardly projecting rear spoiler positioned below a large rear window. An elongate light bar wraps around the rear above a pair of substantially triangular recessed grilles. A trapezium-shaped lower portion houses a pair of slim taillights above a pair of trapezium-shaped grilles.

Figure 6

Three-dimensional view

21: A2023/00469 22: 2023-04-14 23:
43: 2022-10-17
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015000647-0019 32: 2022-10-17

54: SPOILERS

57: The design is for a spoiler and comprises a curved elongate body with tapered ends and raised side walls. An upper surface is raised as it inclines rearwardly.

Figure 7

Three-dimensional view

21: A2023/00470 22: 2023-04-14 23:
43: 2022-10-17
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015000647-0011 32: 2022-10-17

54: FRONT PANELS

57: The design is for a front panel of an automobile. The front panel comprises an elongate gently curved body with tapered ends. A central portion of an upper surface is raised with inclined sides and is rearwardly inclined.

Figure 7

Three-dimensional view

21: A2023/00471 22: 2023-04-14 23:
43: 2022-10-17
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015000647-0012 32: 2022-10-17
54: SPOILERS
57: The design is for a spoiler and comprises an elongate curved slim body. A substantially rectangular member is positioned at each end of the body and projects upwardly from the body. An upper portion of a front wall of the member and a top wall are gently rearwardly inclined. A lower portion of the member folds slightly inwardly at the body, inclines gently inwardly and thereafter extends laterally inwards. The body includes a pair of short, spaced-apart, rearwardly inclined rectangular projections.

Figure 7

Three-dimensional view

21: A2023/00472 22: 2023-04-14 23:
43: 2022-10-17
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015000647-0013 32: 2022-10-17
54: SPOILERS
57: The design is for a spoiler and comprises an elongate curved slim body. A trapezium-shaped member projects upwardly from a first free end and includes a slim elongate light. A rear of the member includes a recessed portion corresponding to a position of the light within a rectangular section. A short rectangular portion of the member extends rearwardly from the rear. A second free end is rearwardly curved.

Figure 7

Three-dimensional view

21: A2023/00473 22: 2023-04-14 23:
43: 2022-10-17
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015000647-0014 32: 2022-10-17
54: FENDERS
57: The design is for a fender and comprises an elongate body comprising a curved upper wall with a tapered front end, an elongate rear extension and a prominent wheel arch.

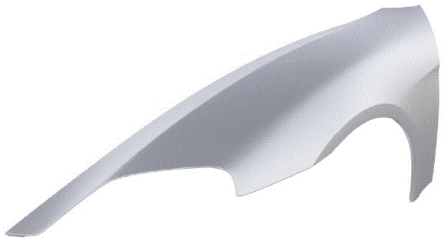


Figure 7

Three-dimensional view

21: A2023/00474 22: 2023-04-14 23:
43: 2022-10-17
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015000647-0015 32: 2022-10-17
54: FENDERS
57: The design is for a fender and comprises an elongate body comprising a curved upper wall with a tapered front end, an elongate rear extension including an aperture for a fuel flap, and a prominent wheel arch.

Figure 7

Three-dimensional view

21: A2023/00475 22: 2023-04-14 23:
43: 2022-10-17
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015000647-0016 32: 2022-10-17
54: BODY PANELS
57: The design is for a body panel for an automobile and comprises an elongate curved body with pointed ends at a rear. A main portion of a top surface of the body curves inwardly and curves upwardly towards a front portion. A bottom surface of the body is recessed with raised side walls and a raised front portion.

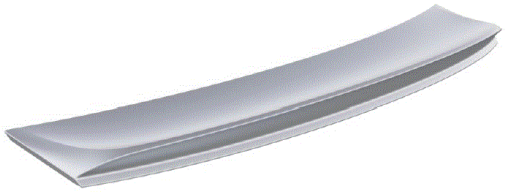


Figure 7

Three-dimensional view

21: A2023/00476 22: 2023-04-14 23:
43: 2022-10-17
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015000647-0017 32: 2022-10-17
54: SPOILERS
57: The design is for a spoiler and comprises an elongate curved slim body. Each end is trapezium-shaped and inclines downwardly. A main portion of an upper wall is recessed and inclines upwardly at a front end.

Figure 7

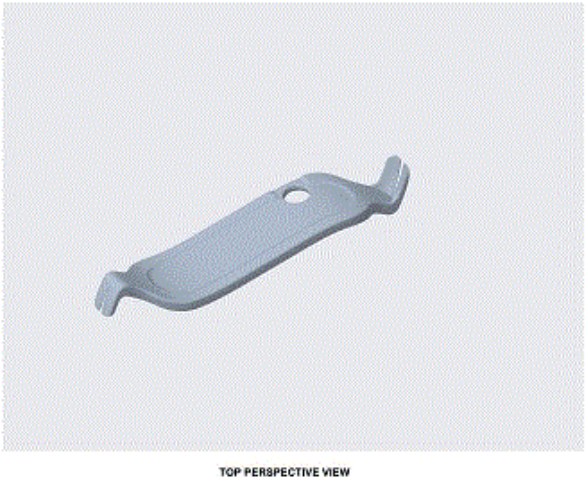
Three-dimensional view

21: A2023/00477 22: 2023-04-14 23:
43: 2022-10-17
52: Class 12 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015000647-0018 32: 2022-10-17
54: SPOILERS
57: The design is for a spoiler mount and comprises a concave octagon body, an elongate L-shaped upper member attached transversely to an upper end of the body and a trapezoid curved skirt attached transversely to a lower portion of the body. The body defines an irregular hexagonal aperture. Each rounded corner of the upper end of the body protrudes upwardly, with one corner defining a round aperture. The upper member includes a lower flange comprising two spaced-apart oblong projections that engage with the upper end of the body. An upper flange is concavely curved and projects laterally, defining two spaced-apart oblong apertures.

Figure 7

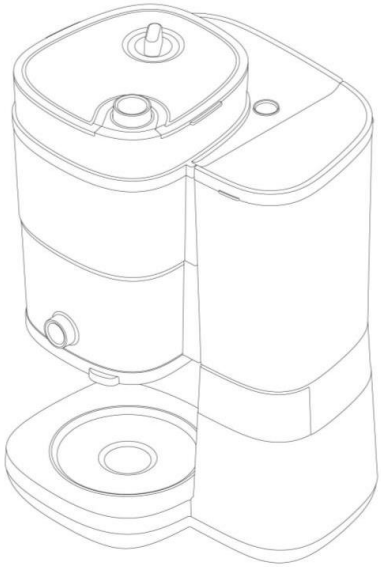
Three-dimensional view

21: A2023/00482 22: 2023-04-17 23:
43: 2024-05-23
52: Class 24. 24: Part A
71: BUG BITE THING EUROPE APS
33: IB 31: DM/227976 32: 2023-03-21
54: Tweezers for Removing Ticks
57: The design relates to tweezers for removing ticks. The features of the design are those of shape and/or configuration and/or ornamentation.

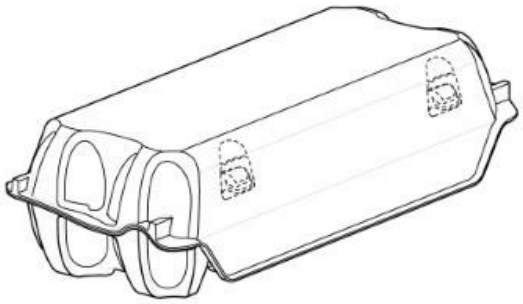


TOP PERSPECTIVE VIEW

21: A2023/00561 22: 2023-05-10 23:
43: 2024-07-03
52: Class 07 24: Part A
71: Philips Domestic Appliances Holding B.V.
33: EU 31: 015002980-0002 32: 2022-11-11
54: COFFEE MACHINE
57: The design is for a coffee machine as shown in the representations.

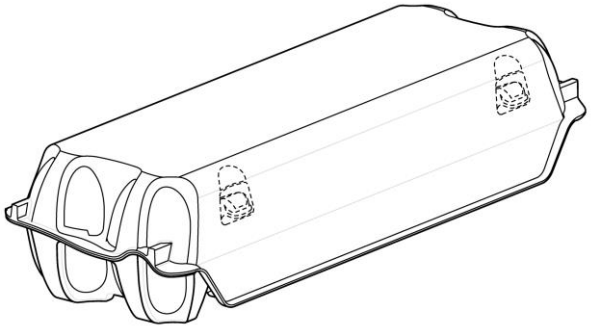


21: A2023/00657 22: 2023-06-02 23:
43: 2023-12-14
52: Class 09 24: Part A
71: Huhtamaki Molded Fiber Technology B.V.
33: WO 31: WIPO126337 32: 2022-12-13
54: EGG CARTONS
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a Egg carton as shown in the accompanying representations, irrespective of the features shown in broken lines.

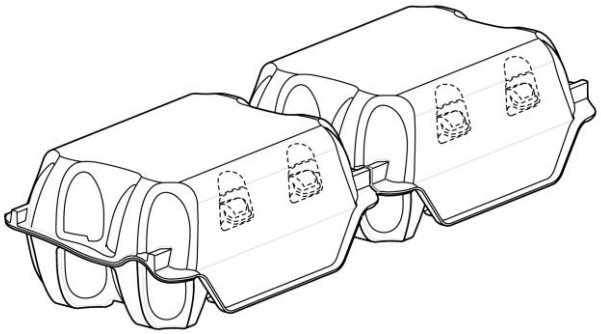


21: A2023/00658 22: 2023-06-02 23:
43: 2023-12-14
52: Class 09 24: Part A
71: Huhtamaki Molded Fiber Technology B.V.

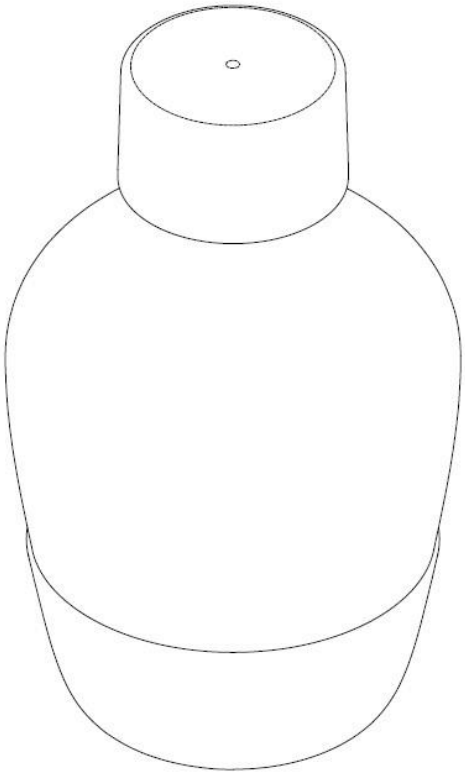
33: WO 31: WIPO126337 32: 2022-12-13
54: EGG CARTON
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a Egg carton as shown in the accompanying representations, irrespective of the features shown in broken lines.



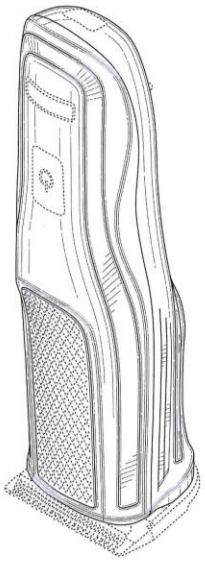
21: A2023/00659 22: 2023-06-02 23:
43: 2023-12-14
52: Class 09 24: Part A
71: Huhtamaki Molded Fiber Technology B.V.
33: WO 31: WIPO126337 32: 2022-12-13
54: EGG CARTON
57: The features of the design for which novelty is claimed are the shape and / or configuration and / or pattern and / or ornamentation of a Egg carton as shown in the accompanying representations, irrespective of the features shown in broken lines.



21: A2023/00690 22: 2023-06-13 23:
43: 2024-07-16
52: Class 09 24: Part A
71: SODASTREAM INDUSTRIES LTD.
33: IL 31: 70013 32: 2023-01-03
54: BOTTLES
57: The design is for a bottle with features as shown in the representations.



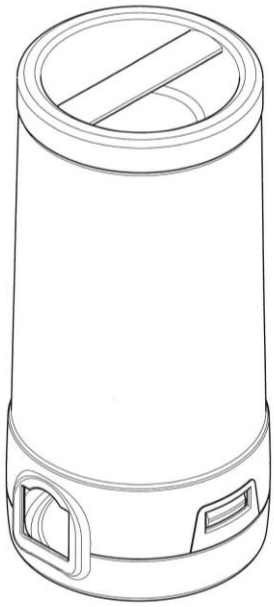
21: A2023/00962 22: 2023-09-04 23:
43: 2024-04-16
52: Class 28 24: Part A
71: WAHL CLIPPER CORPORATION
33: US 31: 29/875,391 32: 2023-05-04
54: HAIR TRIMMER
57: The features of the design for which protection is claimed are those of the shape and/or configuration of a hair trimmer substantially as illustrated in the accompanying drawing. The areas in dotted outline are for illustrative purposes only and do not form part of the design.



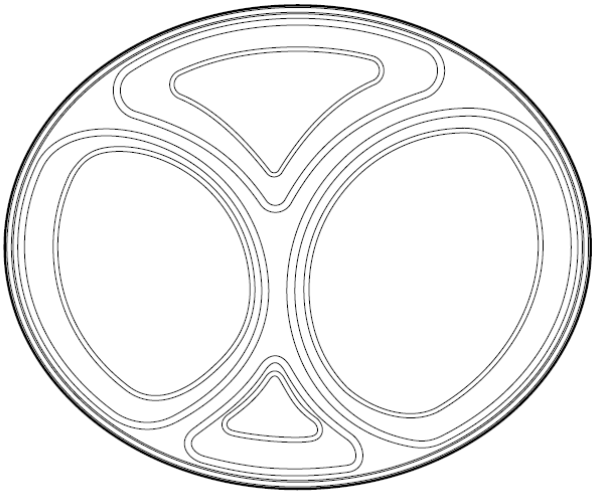
21: A2023/00964 22: 2023-09-04 23:
43: 2024-07-03
52: Class 05 24: Part A
71: Wipe-It (Pty) Ltd.
54: PAPER TISSUE
57: The design is for a paper tissue with a dot pattern embossing, and a stack of paper tissues.

Three-dimensional View

21: A2023/00987 22: 2023-09-08 23:
43: 2024-04-17
52: Class 09 24: Part A
71: NUVOPAK (PTY) LTD
54: DISPENSER
57: The features for which protection are claimed reside in the shape and/or configuration of an olive oil holder, substantially as shown in the accompanying representation



21: A2023/01016 22: 2023-09-20 23: 2023-09-20
43: 2024-04-17
52: Class 07 24: Part A
71: MTHETWA, Winston Bongani
54: SERVING TRAY
57: The design is in respect of a serving tray or serving dish comprising a body with generally oval-shaped perimeter when viewed from above or from below. In plan view, the body defines a generally planar upper surface extending inward from the perimeter and in which is formed two opposing substantially triangular cavities, one slightly larger than the other; and two opposing and laterally spaced apart substantially oval recesses. Each of the recesses has a longitudinal axis of symmetry forming a substantially oblique angle with a longitudinal axis of the oval-shaped body. Portions of the body, where the cavities and recesses are defined, have sidewalls that slant from the upper surface towards a generally planar bottom surface of the serving tray or dish. Sidewalls closer to the perimeter have a less steep decline compared to centrally located sidewalls.



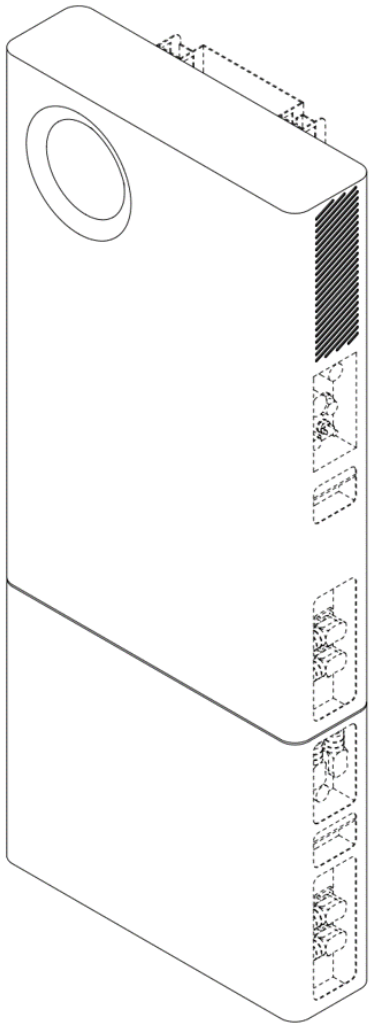
21: A2023/01072 22: 2023-10-02 23:
43: 2024-05-15
52: Class 23 24: Part A
71: GEBERIT INTERNATIONAL AG
33: IB 31: 138923-12 32: 2023-09-28
54: PIPE ELEMENT
57: The design is applied to a pipe element. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the pipe element, substantially as illustrated in the accompanying representation. Features shown outside of the region bounded by the broken lines do not form part of the design and are disclaimed. No protection is claimed for the grey colour shown in the representations.

21: A2023/01073 22: 2023-10-03 23:
43: 2023-06-05
52: Class 21 24: Part A
71: Dr. Ing. h.c. F. Porsche Aktiengesellschaft
33: EM(DE) 31: 015023614-0001 32: 2023-06-05
54: CARS
57: The design is for a car. A front bumper of the car has vent openings which are provided on either side of a pair of closely spaced struts provided at the center of the bumper. A central opening is defined by the pair of struts. A bonnet of the car is substantially contiguous with arch-shaped front fenders. A pair of laterally spaced apart elongate bulges are provided on the bonnet. Vertically arranged headlights are provided at the front of each front fender. A skirt protrudes laterally from a lower edge of each side of the car between the front and rear wheels. A pod shaped windscreen and roof is provided. The roof stretches, in a tapered manner, rearwardly downwardly towards a trunk. A wing extends between rear fenders. An elongate light strip is provided at the rear on either side and extends towards the centre of the trunk. The car has a pronounced diffuser.

Figure 6

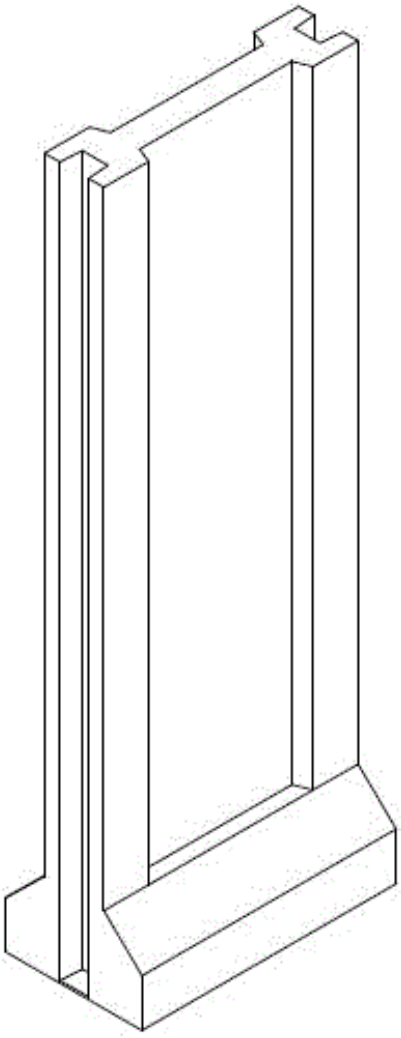
Three-dimensional view

21: A2023/01081 22: 2023-10-05 23:
43: 2024-06-11
52: Class 23 24: Part A
71: WU, Yueli
33: US 31: 29/912,262 32: 2023-09-15
54: SOLAR ENERGY COLLECTOR
57: The design is applied to a solar energy collector. 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 solar energy collector, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed.



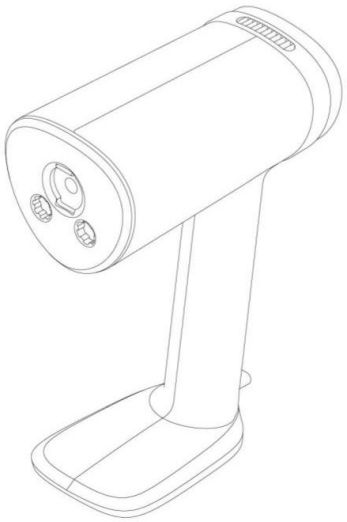
21: A2023/01089 22: 2023-10-06 23:
43: 2023-10-06
52: Class 25 24: Part A
71: PRINSLOO, Wessel Frans, TOPFLOOR CONCRETE PROPRIETARY LIMITED
54: Construction members
57: The design relates to a construction member substantially as shown in the accompanying representations. The construction member has an inverted T-shaped configuration. The construction member includes a pair of spaced elongate support posts and a walling web extending between the support posts. The construction member further includes a base flange providing a relatively wide base on which the construction member is supported on a substrate. The support posts and the base flange define longitudinally-extending locating grooves at opposite ends of the construction member in which end regions of wall panels are

received. The locating grooves are disposed at an orientation of 180° relative to one another.

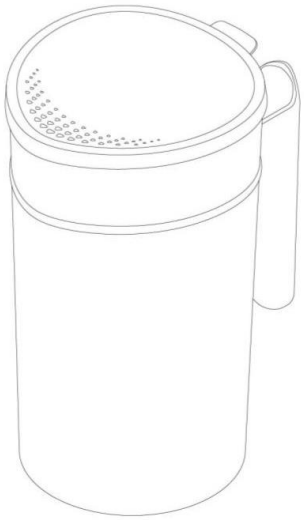


Three-dimensional view from above

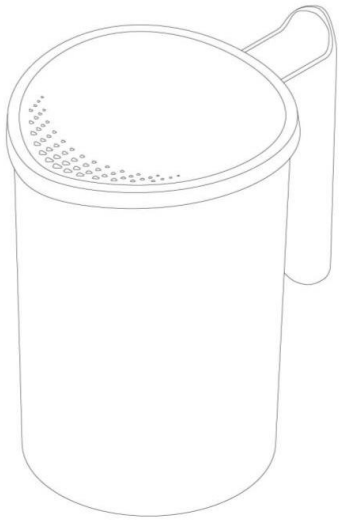
21: A2023/01091 22: 2023-10-09 23:
43: 2024-06-18
52: Class 07 24: Part A
71: Versuni Holding B.V.
33: EU 31: 015017096-0001 32: 2023-04-06
54: HAND MIXER
57: The design is for a hand mixer. The hand mixer has a base, a handle, and a mixer head that is provided with accessory attachment points.



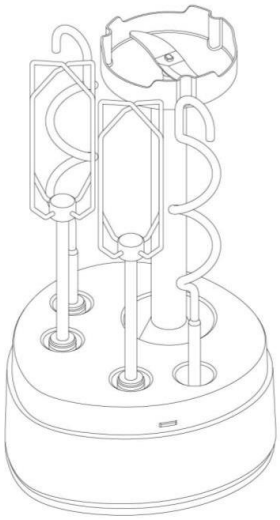
21: A2023/01092 22: 2023-10-09 23:
43: 2024-06-18
52: Class 07 24: Part A
71: Versuni Holding B.V.
33: EU 31: 015017096-0003 32: 2023-04-06
54: BEAKER
57: The design is for a beaker. The beaker comprises a receptacle having a circumferential band, a handle, and a lid.



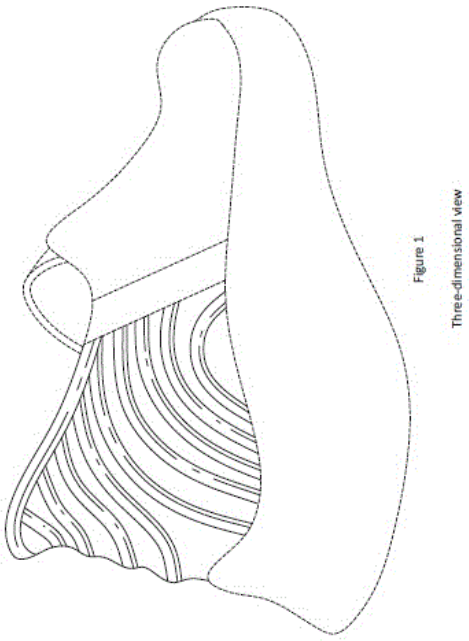
21: A2023/01093 22: 2023-10-09 23:
43: 2024-06-18
52: Class 07 24: Part A
71: Versuni Holding B.V.
33: EU 31: 015017096-0007 32: 2023-04-06
54: BEAKER
57: The design is for a beaker. The beaker has a receptacle, a handle, and a lid.



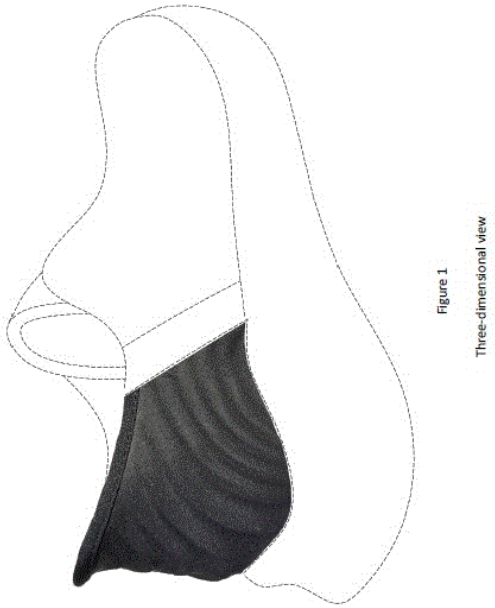
21: A2023/01094 22: 2023-10-09 23:
43: 2024-06-18
52: Class 07 24: Part A
71: Versuni Holding B.V.
33: EU 31: 015017096-0007 32: 2023-04-06
54: STAND WITH ACCESSORIES
57: The design is for a stand with accessories for a hand mixer.



21: A2023/01097 22: 2023-10-10 23:
43: 2023-05-24
52: Class 2 24: Part A
71: Skechers U.S.A., Inc. II
33: US 31: 29/893,043 32: 2023-05-24
54: FOOTWEAR
57: The design is for footwear with a heel cup portion having textured ribbed arcs with the arcs on the quarters of the heel cup forming a concentric semi-ring pattern curving and arcs along the rear portion of the heel cup dipping from the collar toward the rearmost portion with a slight undulation rearward and the heel cup rear portion of the collar flaring pointedly rearward.



21: A2023/01098 22: 2023-10-10 23:
43: 2023-05-24
52: Class 2 24: Part A
71: Skechers U.S.A., Inc. II
33: US 31: 29/893,043 32: 2023-05-24
54: FOOTWEAR
57: The design is for footwear with a heel cup portion having textured ribbed arcs with the arcs on the quarters of the heel cup forming a concentric semi-ring pattern curving and arcs along the rear portion of the heel cup dipping from the collar toward the rearmost portion with a slight undulation rearward with the heel cup being formed of a soft material.



21: A2023/01104 22: 2023-10-12 23:
43: 2024-05-16
52: Class 09 24: Part A
71: TEQAL (PTY) LTD
54: A CONTAINER
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or ornamentation and/or pattern of a container as shown as in the accompanying representations, irrespective of the lid in broken lines and irrespective of any colour, images or text applied to the container.

Figure 1

Perspective view from the top of a container including shading and a lid in broken lines

21: A2023/01118 22: 2023-10-13 23:
43: 2024-05-15
52: Class 9. 24: Part A
71: SCHOELLER ALLIBERT GMBH
54: Bottle Crate
57: The design relates to a bottle crate. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

PERSPECTIVE VIEW

21: A2023/01122 22: 2023-10-17 23:
43: 2023-04-19
52: Class 12 24: Part A
71: Bayerische Motoren Werke Aktiengesellschaft
33: DE 31: 402023100241.9 32: 2023-04-19
54: MOTOR VEHICLES
57: The design is for a motor vehicle that has a long bonnet having laterally spaced, longitudinally extending recesses each surrounded by substantially ellipse-shaped contours. The front has a large, twin kidney-shaped radiator grille at an upper portion thereof that is flanked by large, elongate headlights. An elongate air-intake grille flanked by substantially triangular shaped members is provided below. A lower edge of the front bumper is in the form of a splitter. The side has steeply inclined A-pillars and a Hofmeister kink on the rearmost pillar. A rearwardly extending, upwardly curving contour line is provided between flared front and rear wheel arches. The roof, which has a centrally recessed portion, merges into the side panels as well as a flat rear window. The rear end is sculptured and has L-shaped lights on either side of the trunk, and rectangular-shaped exhaust outlets on either side of a diffuser at the bottom.

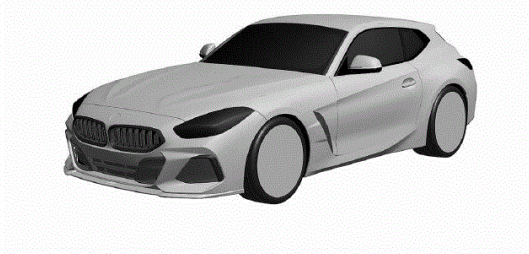


Figure 1

Three-dimensional view

21: A2023/01128 22: 2023-10-19 23:
43: 2024-05-16
52: Class 25 24: Part A
71: THE MARK ROSS FAMILY TRUST
54: A CONTAINERISED ABLUTION FACILITY
57: The features of the design for which protection is claimed reside in the shape and/or configuration and/or pattern and/or ornamentation of a containerised ablution facility, substantially as shown in the accompanying representations. The size of the container may vary, and subsequently the specific number or configuration of toilet cubicles in the containerised ablution facility does not form an essential part of the design. The shape and configuration of the treatment plant located within the treatment room may also change, and is disclaimed.

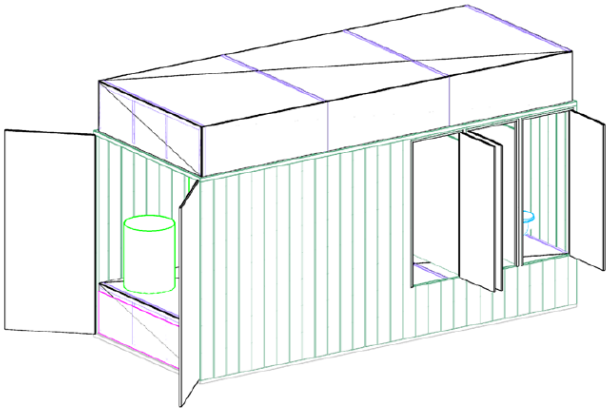


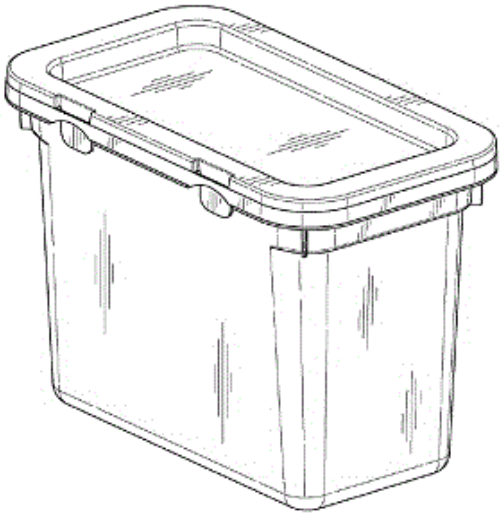
Figure 1

Perspective view of the containerised ablution facility

21: A2023/01129 22: 2023-10-20 23:
43: 2024-05-15
52: Class 9. 24: Part A
71: UNILEVER GLOBAL IP LIMITED
33: EM 31: 015020470-0001 32: 2023-05-04
54: Container
57: The design relates to a container. The features of the design are those of shape and/or configuration and/or ornamentation.

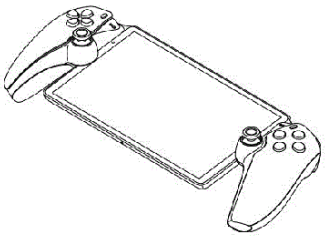
PERSPECTIVE VIEW

21: A2023/01130 22: 2023-10-20 23:
43: 2024-05-15
52: Class 9. 24: Part A
71: UNILEVER GLOBAL IP LIMITED
33: EM 31: 015020221-0001 32: 2023-05-04
54: Container
57: The design relates to a container. The features of the design are those of shape and/or configuration and/or ornamentation.

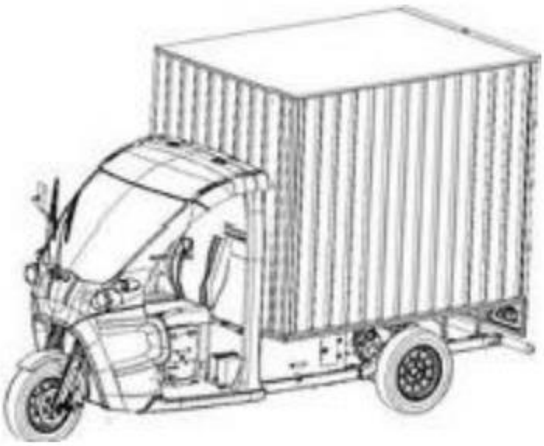


PERSPECTIVE VIEW

21: A2023/01133 22: 2023-10-23 23:
43: 2024-05-15
52: Class 14 24: Part A
71: SONY INTERACTIVE ENTERTAINMENT INC.
33: JP 31: 2023-008982 32: 2023-04-28
54: CONTROLLER WITH DISPLAY SCREEN
57: The design is applied to a controller with a display screen and is shown in perspective view in the drawing showing the overall appearance thereof.

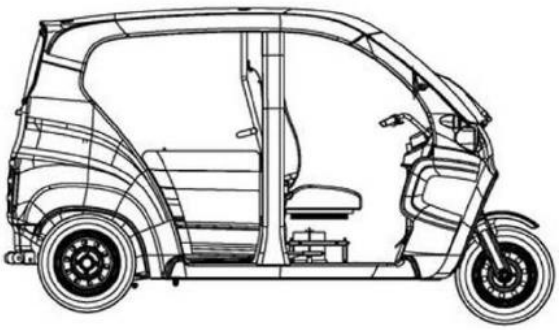


21: A2023/01134 22: 2023-10-23 23:
43: 2024-06-18
52: Class 12 24: Part A
71: KETO Motors Pvt. Ltd.
54: VEHICLES
57: The design is for a vehicle in the form of a three-wheel cargo vehicle.



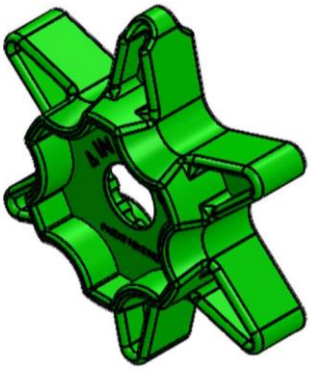
PERSPECTIVE FRONT VIEW

21: A2023/01136 22: 2023-10-23 23:
43: 2024-07-16
52: Class 12 24: Part A
71: KETO Motors Pvt. Ltd.
54: VEHICLES
57: The design is for a vehicle in the form of a three-wheel passenger vehicle.



SIDE VIEW

21: A2023/01140 22: 2023-10-25 23:
43: 2024-06-14
52: Class 09 24: Part A
71: Flying Sourcer (Pty) Ltd
54: GASBOTTLE OPENER
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).



21: A2023/01142 22: 2023-10-25 23:
43: 2023-04-28
52: Class 10 24: Part A
71: LVMH Swiss Manufactures SA
33: HSIRID(CH) 31: DM/228637 32: 2023-04-28
54: WATCH DIALS
57: The drawing represents a skeleton watch dial with openings on the movement. The indexes are aimed at and affixed to the skeleton dial. The minute track is offset on a sloping circular ring. The two chronograph counters are square on the 3 o'clock-9 o'clock axis. The outer periphery of each sub-dial is applied. The chronometer numerals are horizontal in the middle of the counters. The flying small seconds is located at 6 o'clock, above the skeletonized date window.

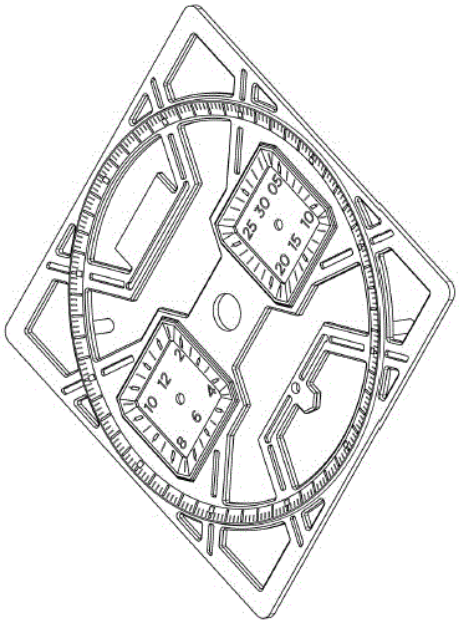
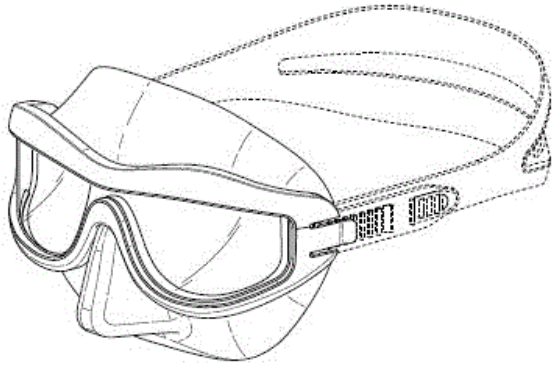


Figure 1

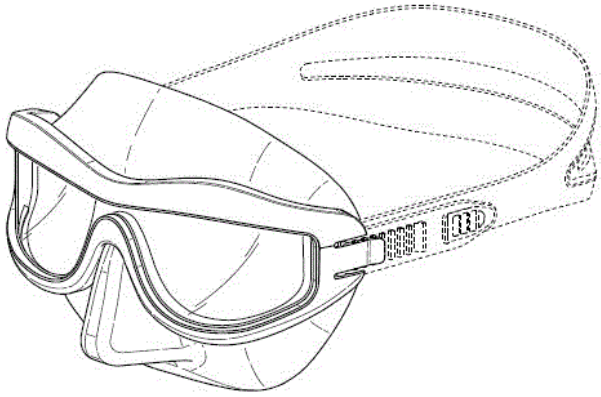
Three-dimensional view

21: A2023/01143 22: 2023-10-25 23:
43: 2023-05-19
52: Class 21 24: Not Applicable
71: AGULHAS GEAR IP LIMITED
33: GB 31: 6284382 32: 2023-05-19
54: Diving Masks
57: The design is applied to a diving mask substantially as shown in the accompanying representations. The diving mask has a low-volume shape designed for breath-hold diving and includes a flexible skirt forming a water-tight seal around a user's face and defining a nose pocket, a semi-rigid frame and a viewing lens mounted within the frame.



Three-dimensional view

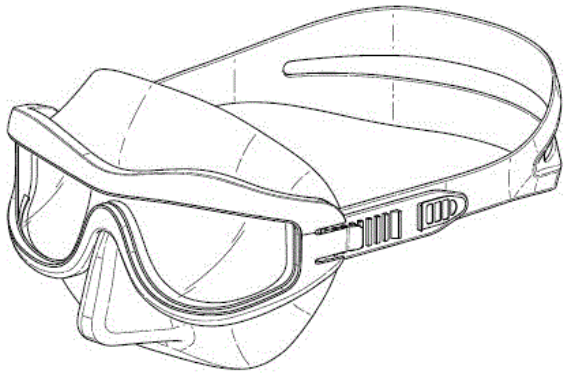
21: A2023/01144 22: 2023-10-25 23:
43: 2023-05-19
52: Class 21 24: Not Applicable
71: AGULHAS GEAR IP LIMITED
33: GB 31: 6284383 32: 2023-05-19
54: Diving Masks
57: The design is applied to a diving mask substantially as shown in the accompanying representations. The diving mask has a low-volume shape designed for breath-hold diving and includes a flexible skirt forming a water-tight seal around a user's face and defining a nose pocket, a semi-rigid frame and a viewing lens mounted within the frame. The lens is removably mounted to the frame which has a two-part structure comprising upper and lower frame sections which are releasably fastened to one another for securing the lens in place.



Three-dimensional view

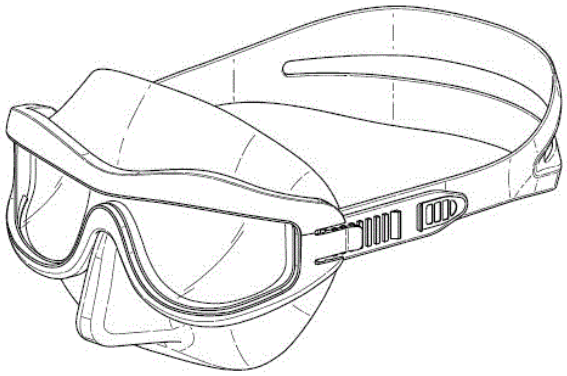
21: A2023/01145 22: 2023-10-25 23:
43: 2023-05-19
52: Class 21 24: Not Applicable

71: AGULHAS GEAR IP LIMITED
33: GB 31: 6284384 32: 2023-05-19
54: Diving Masks
57: The design is applied to a diving mask substantially as shown in the accompanying representations. The diving mask has a low-volume shape designed for breath-hold diving and includes a flexible skirt forming a water-tight seal around a user's face and defining a nose pocket, a semi-rigid frame and a viewing lens mounted within the frame.



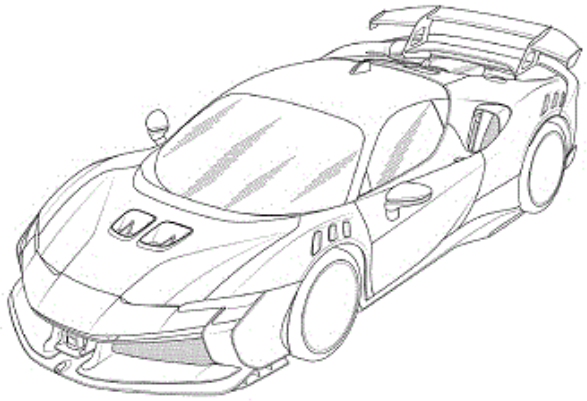
Three-dimensional view

21: A2023/01146 22: 2023-10-25 23:
43: 2023-05-19
52: Class 21 24: Not Applicable
71: AGULHAS GEAR IP LIMITED
33: GB 31: 6284385 32: 2023-05-19
54: Diving Masks
57: The design is applied to a diving mask substantially as shown in the accompanying representations. The diving mask has a low-volume shape designed for breath-hold diving and includes a flexible skirt forming a water-tight seal around a user's face and defining a nose pocket, a semi-rigid frame and a viewing lens mounted within the frame. The lens is removably mounted to the frame which has a two-part structure comprising upper and lower frame sections which are releasably fastened to one another for securing the lens in place.



Three-dimensional view

21: A2023/01149 22: 2023-10-25 23: 2023-06-29
43: 2024-05-15
52: Class 12. 24: Part A
71: FERRARI S.P.A.
33: IB 31: WIPO132015 32: 2023-04-26
54: Car
57: The design relates to a car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

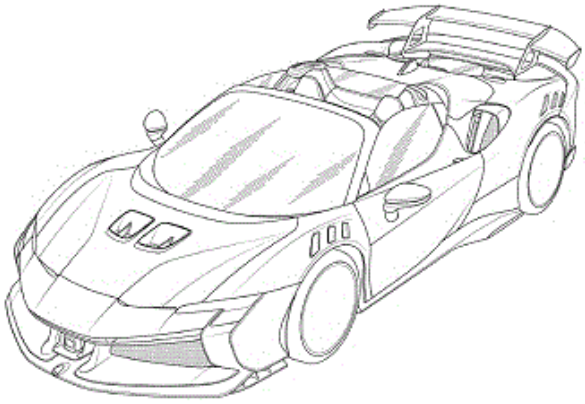


FRONT PERSPECTIVE VIEW

21: A2023/01150 22: 2023-10-25 23: 2023-06-29
43: 2024-05-15
52: Class 21. 24: Part A
71: FERRARI S.P.A.
33: IB 31: WIPO132020 32: 2023-04-26
54: Toy Car
57: The design relates to a toy car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.

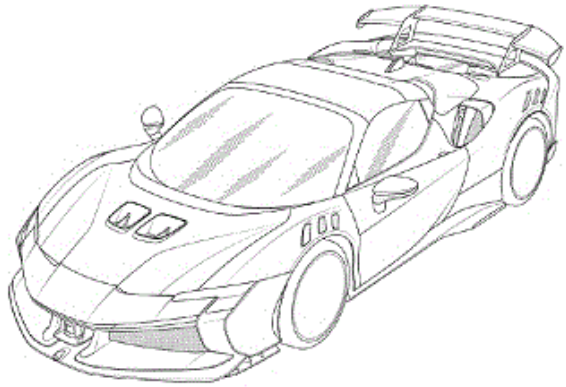
FRONT PERSPECTIVE VIEW

21: A2023/01151 22: 2023-10-25 23: 2023-06-29
43: 2024-05-15
52: Class 12. 24: Part A
71: FERRARI S.P.A.
33: IB 31: WIPO132015 32: 2023-04-26
54: Car
57: The design relates to a car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



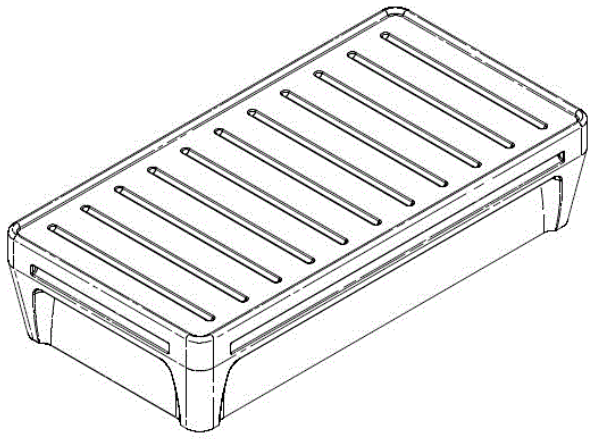
FRONT PERSPECTIVE VIEW

21: A2023/01152 22: 2023-10-25 23: 2023-06-29
43: 2024-05-15
52: Class 12. 24: Part A
71: FERRARI S.P.A.
33: IB 31: WIPO132015 32: 2023-04-26
54: Car
57: The design relates to a car. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



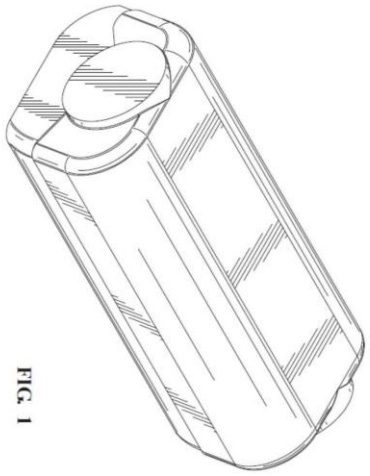
FRONT PERSPECTIVE VIEW

21: A2023/01155 22: 2023-10-26 23:
43: 2023-10-26
52: Class 6 24: Part A
71: Cranium Medical Products (Pty) Ltd
54: Beds
57: The design is in respect of a bed which includes a mattress support defining a horizontal rectangular support surface. The mattress support is mounted on a base which includes parallel oppositely disposed pairs of sides and ends which depend from the mattress support. A horizontally extending recess is provided in each of the sides and ends within which a guide rail is mountable.

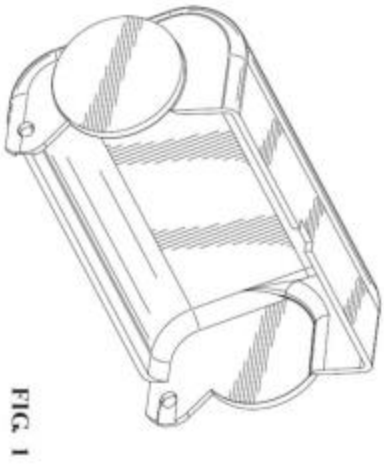


21: A2023/01156 22: 2023-10-27 23:
43: 2024-05-15
52: Class 24 24: Part A
71: VERSAH, LLC
33: US 31: 29/875,675 32: 2023-05-09
54: SURGICAL BUR KIT HOLDER

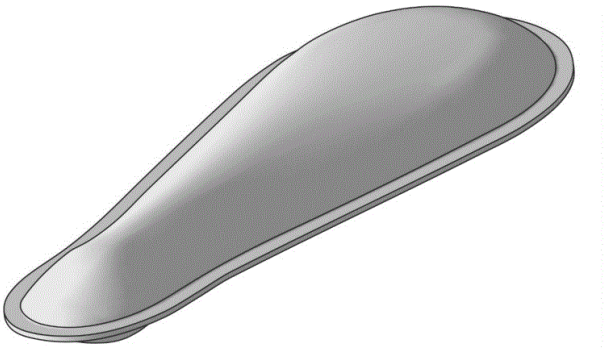
57: The design is applied to a surgical bur kit holder shown in perspective view in the drawing showing the overall appearance thereof.



21: A2023/01157 22: 2023-10-27 23:
43: 2024-05-15
52: Class 24 24: Part A
71: VERSAH, LLC
33: US 31: 29/875,676 32: 2023-05-09
54: LID FOR SURGICAL BUR KIT HOLDER
57: The design is applied to a lid for a surgical bur kit holder shown in perspective view in the drawing showing the overall appearance thereof.

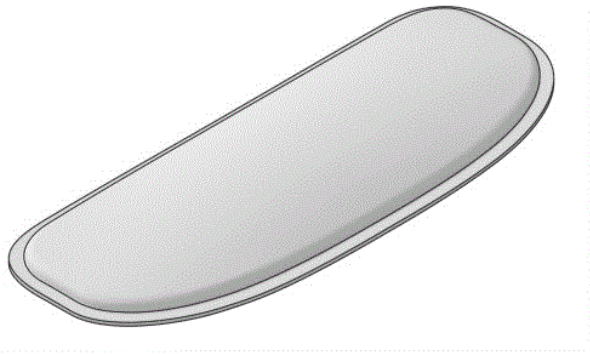


21: A2023/01159 22: 2023-10-27 23:
43: 2024-05-16
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015019689-0002 32: 2023-04-27
54: NICOTINE POUCH
57: The design is to be applied to a nicotine pouch. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, colouration or surface finish.



PERSPECTIVE VIEW

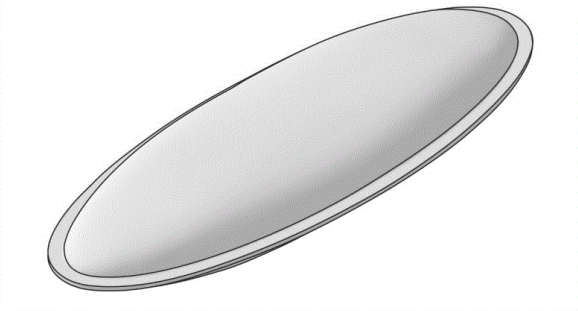
21: A2023/01160 22: 2023-10-27 23:
43: 2024-06-11
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015019689-0008 32: 2023-04-27
54: NICOTINE POUCH
57: The design is to be applied to a nicotine pouch. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, coloration or surface finish.



PERSPECTIVE VIEW

21: A2023/01161 22: 2023-10-27 23:
43: 2024-06-11
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015019689-0011 32: 2023-04-27
54: NICOTINE POUCH

57: The design is to be applied to a nicotine pouch. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, colouration or surface finish.

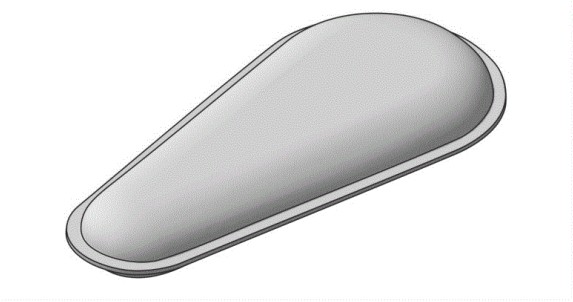


PERSPECTIVE VIEW

21: A2023/01162 22: 2023-10-27 23:
43: 2024-06-11
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015019689-0017 32: 2023-04-27
54: NICOTINE POUCH
57: The design is to be applied to a nicotine pouch. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, colouration or surface finish.

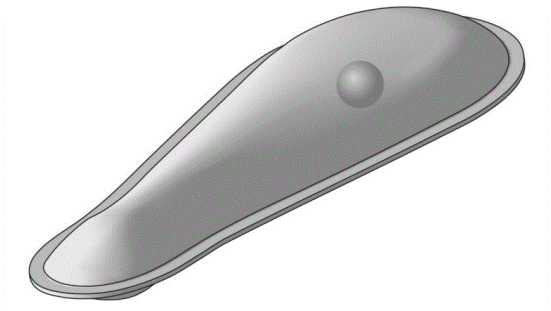
PERSPECTIVE VIEW

21: A2023/01163 22: 2023-10-27 23:
43: 2024-06-11
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015019689-0020 32: 2023-04-27
54: NICOTINE POUCH
57: The design is to be applied to a nicotine pouch. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, colouration or surface finish.



PERSPECTIVE VIEW

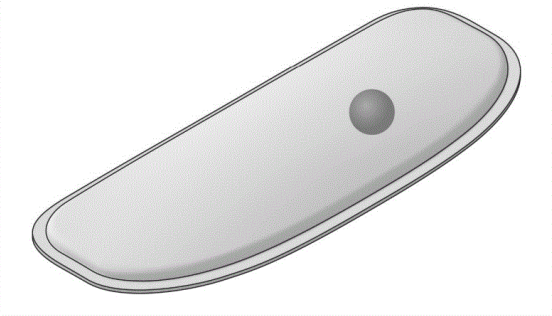
21: A2023/01164 22: 2023-10-27 23:
43: 2024-06-20
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015019891-0002 32: 2023-04-27
54: NICOTINE POUCH WITH INTERIOR CAPSULE
57: The design is to be applied to a nicotine pouch with interior capsule. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, colouration or surface finish.



PERSPECTIVE VIEW

21: A2023/01165 22: 2023-10-27 23:
43: 2024-07-16
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015019891-0008 32: 2023-04-27
54: NICOTINE POUCH WITH INTERIOR CAPSULE
57: The design is to be applied to a nicotine pouch with interior capsule. The features for which

protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, colouration or surface finish.

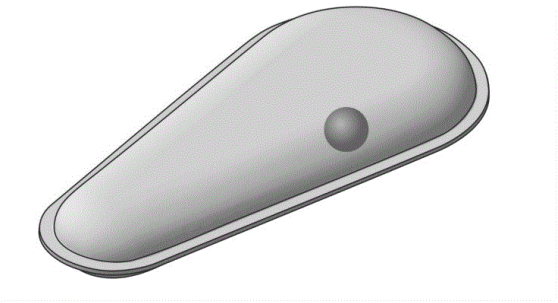


PERSPECTIVE VIEW

21: A2023/01167 22: 2023-10-27 23:
43: 2024-06-11
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015019891-0017 32: 2023-04-27
54: NICOTINE POUCH WITH INTERIOR CAPSULE
57: The design is to be applied to a nicotine pouch with interior capsule. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, colouration or surface finish.

PERSPECTIVE VIEW

21: A2023/01168 22: 2023-10-27 23:
43: 2024-06-11
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015019891-00020 32: 2023-04-27
54: NICOTINE POUCH WITH INTERIOR CAPSULE
57: The design is to be applied to a nicotine pouch with interior capsule. The features for which protection is claimed are those of shape and/or configuration, substantially as shown in the representations. The shading in the design drawings are intended to show the contours of the designs only and are not intended to show ornamentation, colouration or surface finish.



PERSPECTIVE VIEW

21: A2023/01169 22: 2023-10-27 23:
43: 2023-04-28
52: Class 10 24: Part A
71: LVMH Swiss Manufactures SA
33: HSIRID(CH) 31: DM/228764 32: 2023-04-28
54: WATCHES
57: The design is that of a chronograph watch. The watch case is square, with the two flanks at 3 o'clock - 9 o'clock curved in a 6 o'clock - 12 o'clock direction. A pair of lugs extend from the top of the case to the underside. A fluted circular crown is fixed at 3 o'clock. A pair of hexagonal-shaped pushers protrude from the right side wall. The watch bezel is recessed into the case middle part. The opening is square. The dial is skeletonized with openings on the movement. The indexes are aimed at and affixed to the skeleton dial. The two chronograph counters are square on the 3 o'clock - 9 o'clock axis. The outer periphery of each sub-dial is applied. The flying small seconds is located at 6 o'clock, above the skeletonized date window.

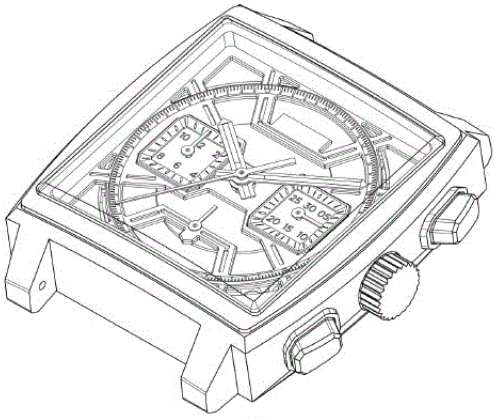
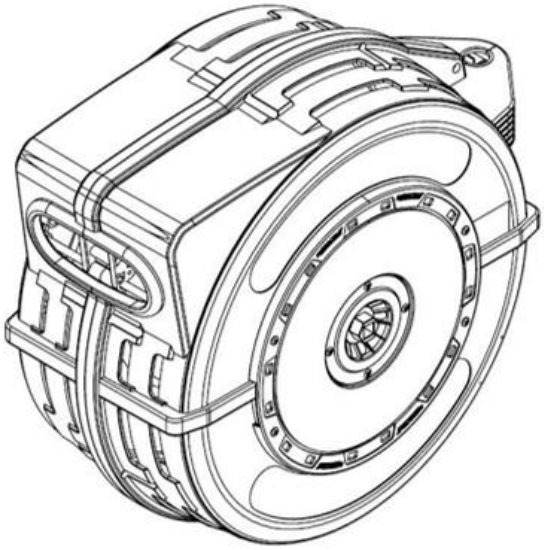


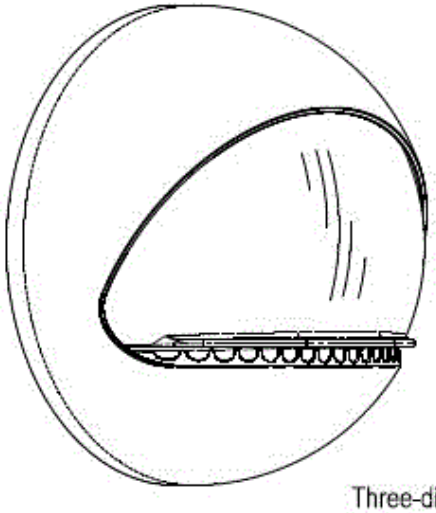
Figure 1

Three-dimensional view

21: A2023/01177 22: 2023-10-30 23:
43: 2024-05-15
52: Class 08 24: Part A
71: MACNAUGHT PTY LTD
33: AU 31: 202316065 32: 2023-09-12
54: REEL HOUSING FOR A HOSE OR CABLE
57: The design is applied to a reel housing for a hose or cable. 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 reel housing for a hose or cable, substantially as illustrated in the accompanying representation.

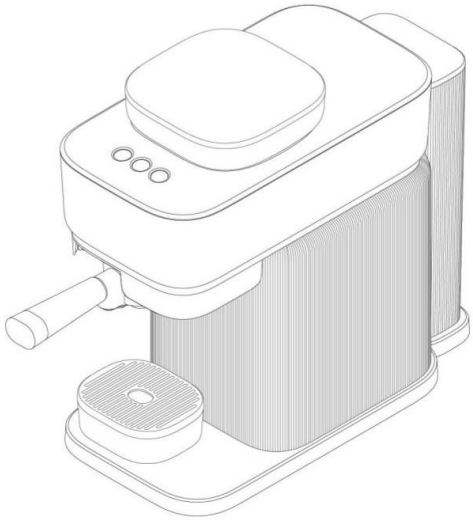


21: A2023/01184 22: 2023-10-31 23:
43: 2023-10-31
52: Class 23 24: Part A
71: OLIVIER, Shane Stephen
54: Holders for Soap Bars
57: The design is applied to a holder for a soap bar, substantially as shown in the accompanying representations. The holder has a hemispherical shape and defines a central oval-shaped opening which is closeable by means of hingedly slidable curved lid.



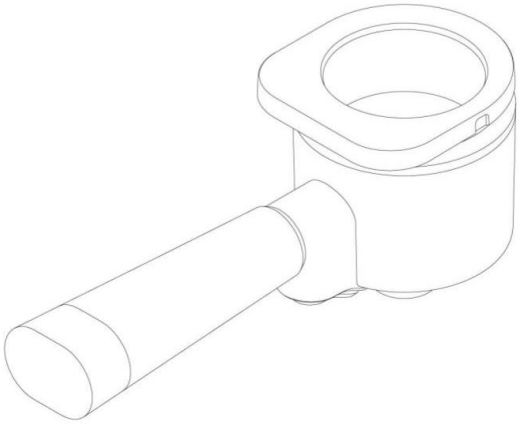
Three-dimensional view

21: A2023/01186 22: 2023-10-31 23:
43: 2024-06-18
52: Class 07 24: Part A
71: Versuni Holding B.V.
33: EU 31: 015020505-0001 32: 2023-05-04
54: COFFEE MACHINE
57: The design is for a coffee machine, in particular an espresso coffee machine.



21: A2023/01187 22: 2023-10-31 23:
43: 2024-06-18

52: Class 07 24: Part A
71: Versuni Holding B.V.
33: EU 31: 015020505-0015 32: 2023-05-04
54: COFFEE MACHINE FILTER
57: The design is for a portafilter of a coffee machine, in particular for an espresso coffee machine.

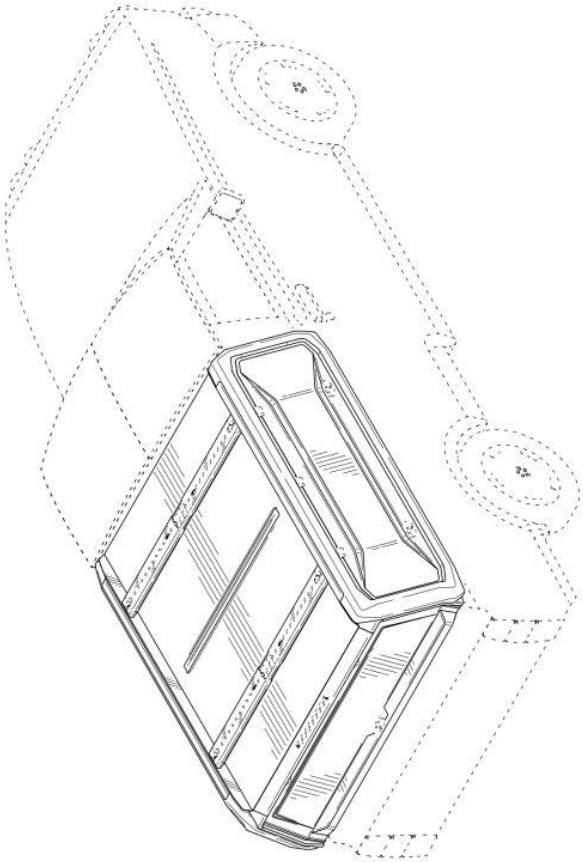


21: A2023/01203 22: 2023-11-07 23:
43: 2024-06-11
52: Class 21 24: Part A
71: TENTHOUSE STRUCTURES (PTY) LTD
54: A TENT
57: The design is applied to a tent. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the tent, substantially as illustrated in the accompanying representations.

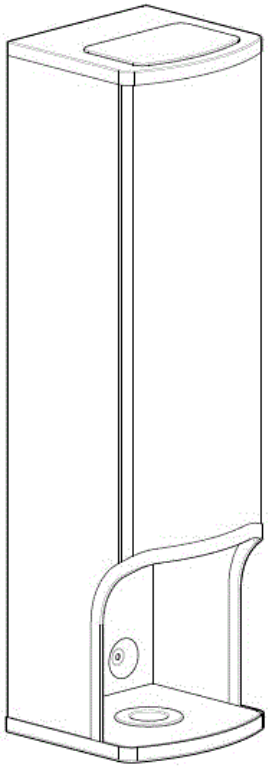
21: A2023/01204 22: 2023-11-07 23:
43: 2024-06-11
52: Class 21 24: Part A
71: TENTHOUSE STRUCTURES (PTY) LTD
54: A TENT
57: The design is applied to a tent. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the tent, substantially as illustrated in the accompanying representations.

21: A2023/01205 22: 2023-11-07 23:
43: 2024-06-11
52: Class 21 24: Part A
71: TENTHOUSE STRUCTURES (PTY) LTD
54: A TENT
57: The design is applied to a tent. 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 tent, substantially as illustrated in the accompanying representations.

21: A2023/01220 22: 2023-11-10 23:
43: 2024-06-11
52: Class 12 24: Part A
71: KUAT INNOVATIONS LLC
33: US 31: US29/911,506 32: 2023-09-05
54: CANOPY FOR A BAKKIE
57: The design is applied to a canopy for a bakkie. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the canopy, substantially as illustrated in the accompanying representation. Features shown in broken lines do not form part of the design and are disclaimed. Contour lines and surface shading are provided to indicate the surface contours and surface character but do not form part of the design and are disclaimed.

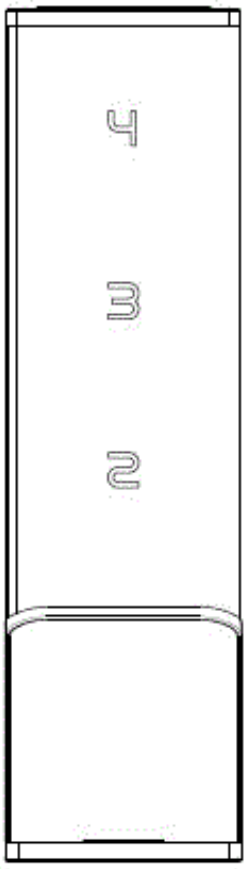


21: A2023/01276 22: 2023-11-24 23:
43: 2024-06-11
52: Class 23 24: Part A
71: SERRA MANUFACTURING (PTY) LIMITED
54: TOILET PAPER HOLDER
57: The design relates to a toilet paper holder. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



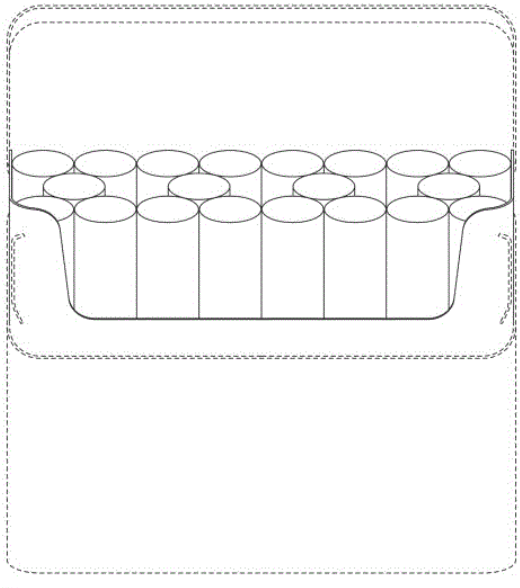
FRONT PERSPECTIVE VIEW

21: A2023/01277 22: 2023-11-24 23:
43: 2024-06-11
52: Class 23 24: Part A
71: SERRA MANUFACTURING (PTY) LIMITED
54: TOILET PAPER HOLDER
57: The design relates to a toilet paper holder. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



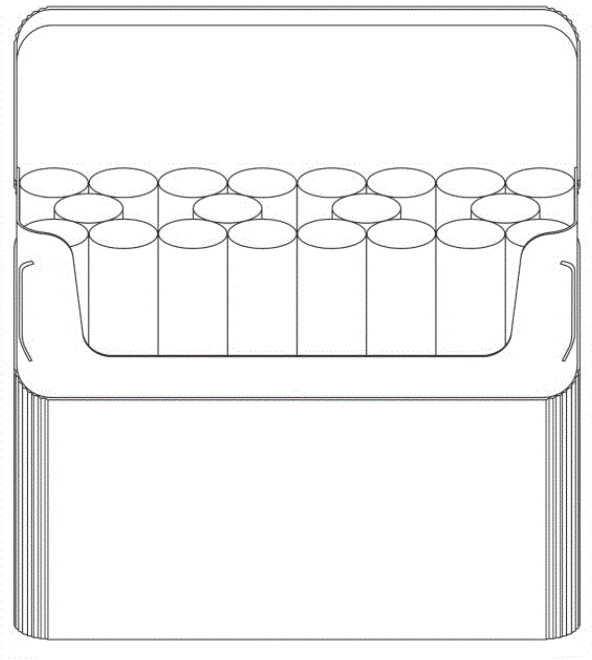
FRONT VIEW

21: A2023/01278 22: 2023-11-24 23:
43: 2024-06-11
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015022760-0001 32: 2023-05-25
54: STICK CONSUMABLES/TOBACCO BOX AND ARRANGEMENT OF STICK CONSUMABLES/TOBACCO IN BOX
57: The design is to be applied to stick consumables/tobacco box and arrangement of stick consumables/tobacco in box. The features for which protection is claimed are those of shape and/or configuration and/or pattern and/or ornamentation, substantially as shown in the representations. The broken lines are for illustrative purposes only and form no part of the claimed design.



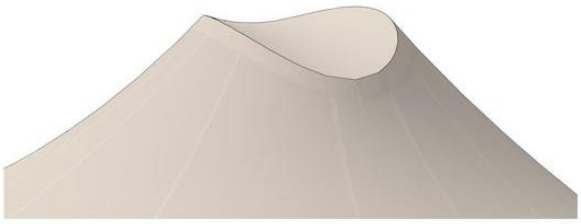
TOP FRONT PERSPECTIVE VIEW

21: A2023/01279 22: 2023-11-24 23:
43: 2024-06-11
52: Class 27 24: Part A
71: PHILIP MORRIS PRODUCTS S.A.
33: EU 31: 015022760-0002 32: 2023-05-25
54: STICK CONSUMABLES/TOBACCO BOX AND ARRANGEMENT OF STICK CONSUMABLES/TOBACCO IN BOX
57: The design is to be applied to stick consumables/tobacco box and arrangement of stick consumables/tobacco in box. The features for which protection is claimed are those of shape and/or configuration and/or pattern and/or ornamentation, substantially as shown in the representations.

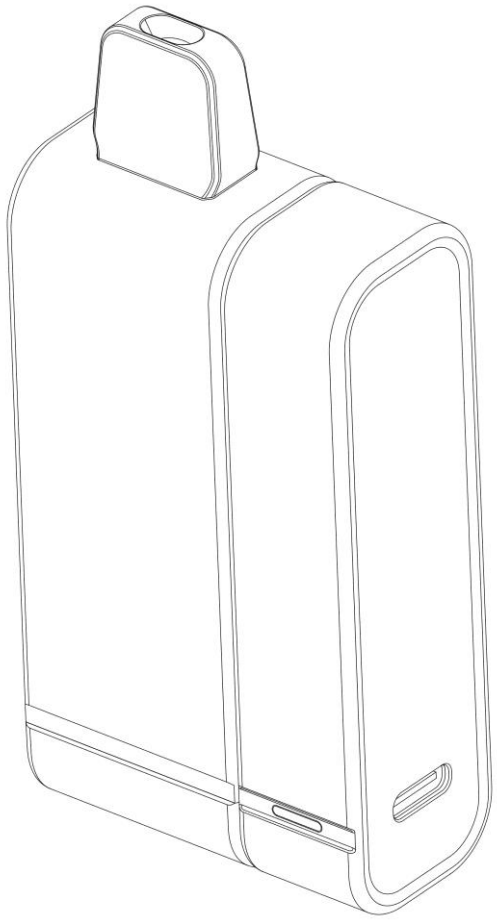


TOP FRONT PERSPECTIVE VIEW

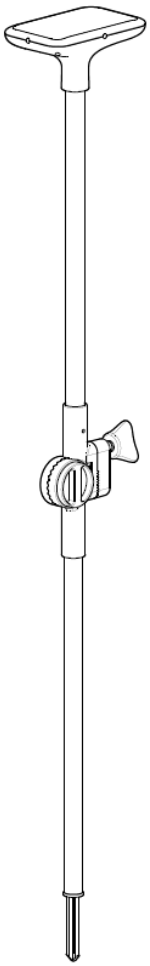
21: A2023/01298 22: 2023-11-30 23:
43: 2024-06-11
52: Class 21 24: Part A
71: TENTHOUSE STRUCTURES (PTY) LTD
54: A ROOF MEMBRANE
57: The design is applied to a roof membrane having a saddle-shaped peak. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern and/or ornamentation of the roof membrane, substantially as illustrated in the accompanying representations.



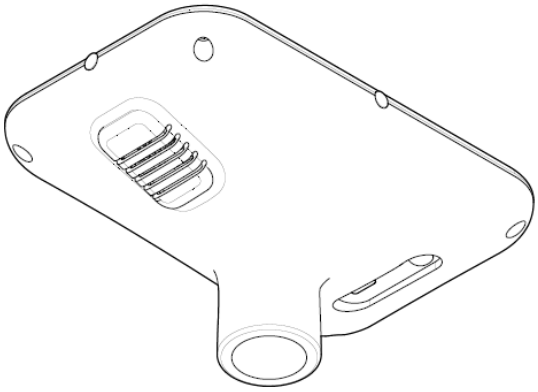
21: A2023/01360 22: 2023-12-08 23:
43: 2024-07-09
52: Class 23 24: Part A
71: IMIRACLE (HK) LIMITED
33: CN 31: 202330360029.0 32: 2023-06-12
54: ELECTRONIC ATOMIZATION DEVICE
57: The design relates to an electronic atomization device. The features of the design are those of shape and/or configuration and/or pattern and/or ornamentation.



21: A2023/01455 22: 2023-12-20 23:
43: 2024-07-03
52: Class 10 24: Part A
71: DIVISION X (PTY) LTD
54: MONITORING DEVICE
57: The features of the design for which protection is claimed reside in the shape and/or configuration of a printed circuit board, substantially as shown in the accompanying representations.



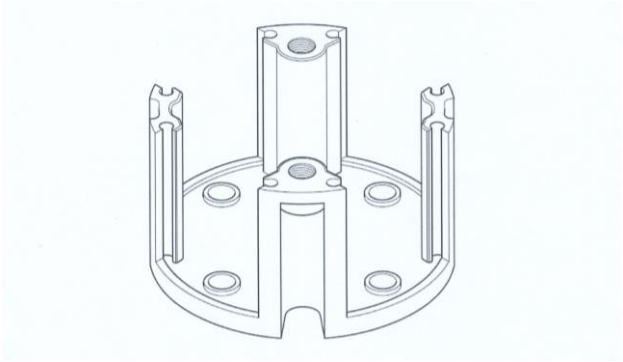
21: A2023/01457 22: 2023-12-20 23:
43: 2024-07-03
52: Class 10 24: Part A
71: DIVISION X (PTY) LTD
54: MONITORING DEVICE
57: The features of the design for which protection is claimed reside in the shape and/or configuration of a printed circuit board, substantially as shown in the accompanying representations.



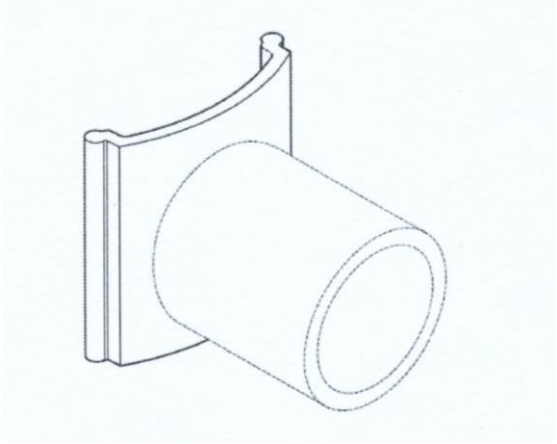
21: A2024/00531 22: 2024-06-06 23:
43: 2024-07-03
52: Class 14 24: Part A
71: Wang Chong
54: TOUCH SCREENS
57: The design relates to a Touch screens. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.

21: A2024/00532 22: 2024-06-06 23:
43: 2024-07-03
52: Class 14 24: Part A
71: Wang Chong
54: TOUCH SCREENS
57: The design relates to a Touch screens. The features of the design are those of shape and/or pattern and/or configuration and/or ornamentation.

21: F2021/01025 22: 2021-09-03 23:
43: 2024-06-20
52: Class 13 24: Part F
71: PATTERSON, ROY
54: A BODY OF A JUNCTION BOX
57: The novelty of the design resides in the shape or configuration of the body of a junction box substantially as shown in the accompanying representation.



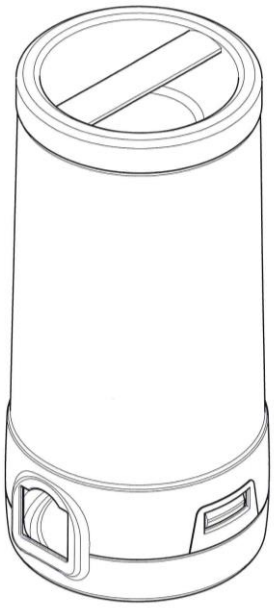
21: F2021/01026 22: 2021-09-03 23:
43: 2024-06-20
52: Class 13 24: Part F
71: ROY PATTERSON
54: A CONNECTOR FOR A JUNCTION BOX
57: The novelty of the design resides in the shape or configuration of the connector for a junction box substantially as shown in the accompanying representation.



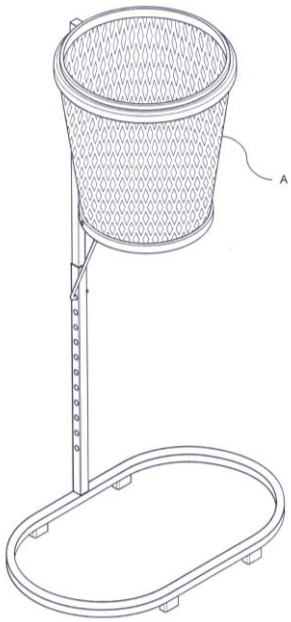
21: F2022/00247 22: 2022-03-11 23: 2021-12-15
43: 2024-06-18
52: Class 02 24: Part F
71: KILLASSY, Timothy Joseph
54: KNEE GUARD
57: The features of this design for which protection are claimed include the shape and/or configuration and/or ornamentation and/or pattern of a knee guard substantially as illustrated in the accompanying representations.

21: F2022/00249 22: 2022-03-11 23: 2021-12-15
43: 2024-06-18
52: Class 02 24: Part F
71: KILLASSY, Timothy Joseph
54: KNEE GUARD
57: The features of this design for which protection are claimed include the shape and/or configuration and/or ornamentation and/or pattern of a knee guard substantially as illustrated in the accompanying representations.

21: F2023/00986 22: 2023-09-08 23:
43: 2024-04-17
52: Class 09 24: Part F
71: NUVOPAK (PTY) LTD
54: DISPENSER
57: The features for which protection are claimed reside in the shape and/or configuration of an olive oil holder, substantially as shown in the accompanying representation.



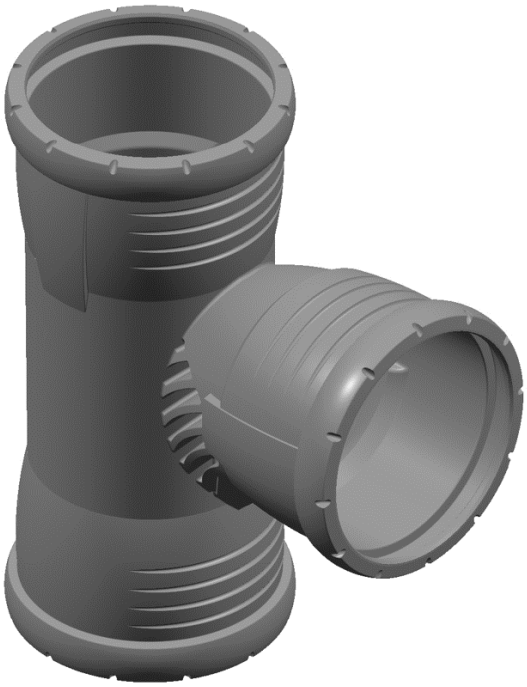
21: F2023/01029 22: 2023-09-22 23:
43: 2024-04-16
52: Class 07 24: Part F
71: PIENAAR, Lourens
54: CONTAINER AND STAND
57: The features for which protection is claimed reside in the shape and/or configuration of a stand, as shown in the accompanying drawing. The container marked “A” does not form part of the design and is disclaimed.



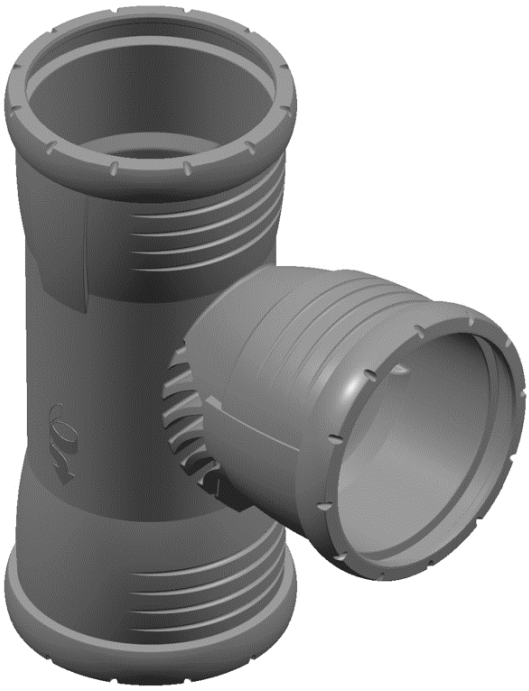
21: F2023/01032 22: 2023-09-26 23:
43: 2024-04-17
52: Class 9 24: Part F
71: WAVE PAPER (PTY) LTD
54: A BLANK FOR A TRAY FOR FOOD PACKAGING
57: The representation shows a three-dimensional side and top view of a blank for a tray for food packaging in accordance with the present design when folded into a tray for packaging food showing the overall appearance thereof.

21: F2023/01060 22: 2023-10-02 23:
43: 2024-05-15
52: Class 23 24: Part F
71: GEBERIT INTERNATIONAL AG
33: IB 31: 138923-7 32: 2023-09-28
54: PIPE ELEMENT

57: The design is applied to a pipe element. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the pipe element, substantially as illustrated in the accompanying representation. No protection is claimed for the grey colour shown in the representations.

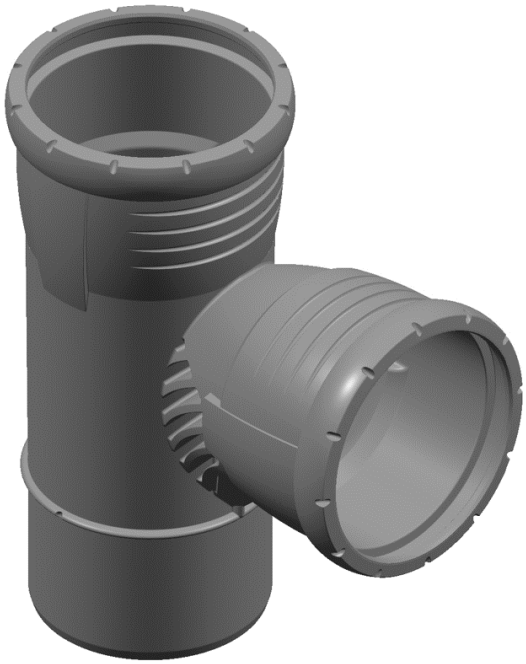


21: F2023/01061 22: 2023-10-02 23:
43: 2024-05-15
52: Class 23 24: Part F
71: GEBERIT INTERNATIONAL AG
33: IB 31: 138923-8 32: 2023-09-28
54: PIPE ELEMENT
57: The design is applied to a pipe element. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the pipe element, substantially as illustrated in the accompanying representation. No protection is claimed for the grey colour shown in the representations.

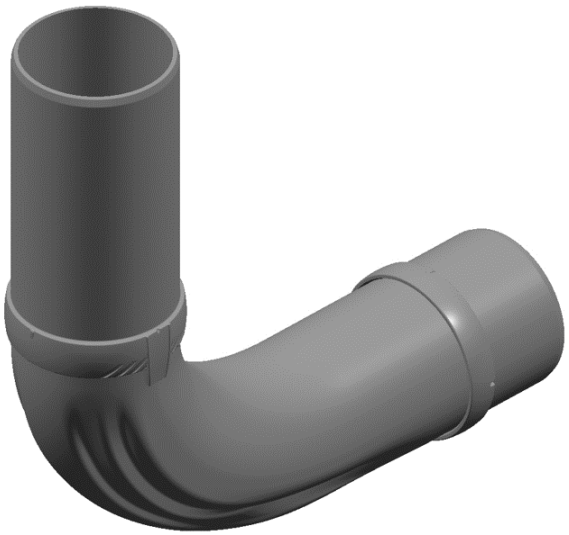


21: F2023/01062 22: 2023-10-02 23:
43: 2024-05-15
52: Class 23 24: Part F
71: GEBERIT INTERNATIONAL AG
33: IB 31: 138923-9 32: 2023-09-28
54: PIPE ELEMENT
57: The design is applied to a pipe element. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the pipe element, substantially as illustrated in the accompanying representation. No protection is claimed for the grey colour shown in the representations.

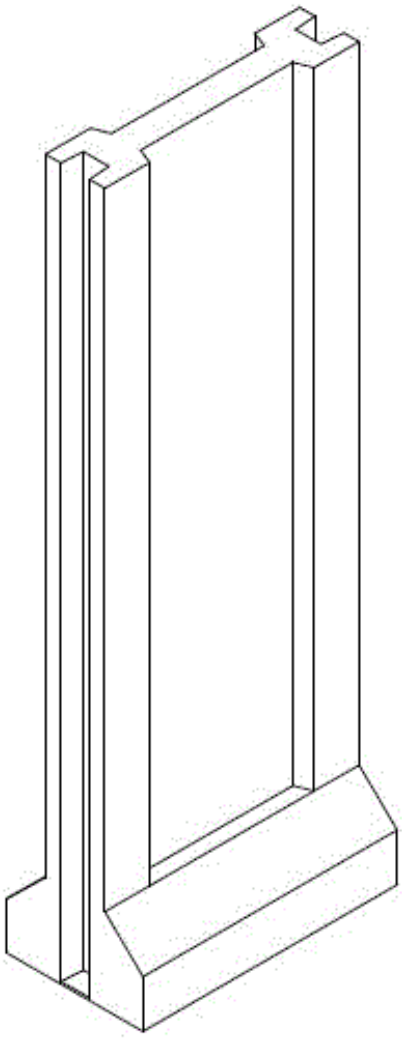
21: F2023/01063 22: 2023-10-02 23:
43: 2024-05-15
52: Class 23 24: Part F
71: GEBERIT INTERNATIONAL AG
33: IB 31: 138923-10 32: 2023-09-28
54: PIPE ELEMENT
57: The design is applied to a pipe element. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the pipe element, substantially as illustrated in the accompanying representation. No protection is claimed for the grey colour shown in the representations.



21: F2023/01064 22: 2023-10-02 23:
43: 2024-05-15
52: Class 23 24: Part F
71: GEBERIT INTERNATIONAL AG
33: IB 31: 138923-11 32: 2023-09-28
54: PIPE ELEMENT
57: The design is applied to a pipe element. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the pipe element, substantially as illustrated in the accompanying representation. No protection is claimed for the grey colour shown in the representations.

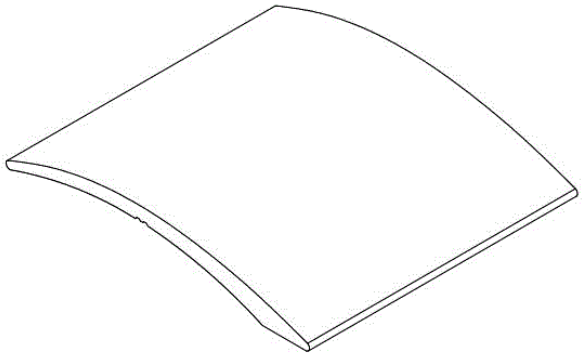


21: F2023/01090 22: 2023-10-06 23:
43: 2023-10-06
52: Class 25 24: Part F
71: PRINSLOO, Wessel Frans, TOPFLOOR CONCRETE PROPRIETARY LIMITED
54: Construction members
57: The design relates to a construction member substantially as shown in the accompanying representations. The construction member has an inverted T-shaped configuration. The construction member includes a pair of spaced elongate support posts and a walling web extending between the support posts. The construction member further includes a base flange providing a relatively wide base on which the construction member is supported on a substrate. The support posts and the base flange define longitudinally-extending locating grooves at opposite ends of the construction member in which end regions of wall panels are received. The locating grooves are disposed at an orientation of 180° relative to one another.



Three-dimensional view from above

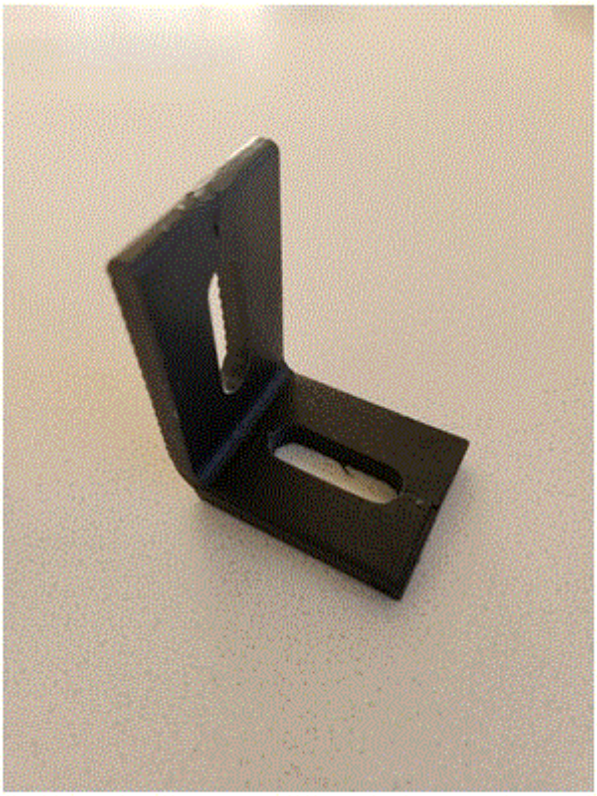
21: F2023/01110 22: 2023-10-13 23:
43: 2023-10-13
52: Class 25 24: Part F
71: Alco Exotic Green Building Products CC
54: Trims for Flooring or Carpeting
57: The design is for a trim for flooring or carpeting, substantially as illustrated in the accompanying representations.



One three-dimensional view

21: F2023/01115 22: 2023-10-13 23:
43: 2024-05-15
52: Class 13 24: Part F
71: NIENHUIS, Jan, Balster
54: M430 ROOF SHEET CLAMP FOR MOUNTING SOLAR PANELS
57: The design relates to a M430 Roof Sheet Clamp for Mounting Solar Panels. The features of the design are those of shape and/or configuration. Figure 7 is for illustrative purposes only and does not form part of the design.

21: F2023/01116 22: 2023-10-13 23:
43: 2024-05-15
52: Class 13 24: Part F
71: NIENHUIS, Jan, Balster
54: L-BRACKET FOR MOUNTING SOLAR PANEL RAILS ON ROOFS
57: The design relates to a Bracket for Mounting Solar Panel Rails on a Roof. The features of the design are those of shape and/or configuration. The rail shown in Figure 6 does not form part of the design.



21: F2023/01117 22: 2023-10-13 23:
43: 2024-05-15
52: Class 13 24: Part F
71: NIENHUIS, Jan, Balster
54: SLOTTED WASHER FOR BRACKETS AND RAILS FOR MOUNTING SOLAR PANEL RAILS ON ROOFS
57: The design relates to a Slotted Washer for Brackets and Rails for Mounting Solar Panels. The features of the design are those of shape and/or configuration. The rail shown in Figure 5 does not form part of the design.

21: F2023/01131 22: 2023-10-23 23:
43: 2024-05-15
52: Class 15 24: Part F
71: BANDIT INDUSTRIES, INC.
33: US 31: 29/890,412 32: 2023-04-24
54: TOOL BODY
57: The drawing shows a rear perspective view of a tool body in accordance with the present design showing the overall appearance thereof with a waste processing tool illustrated in broken lines.

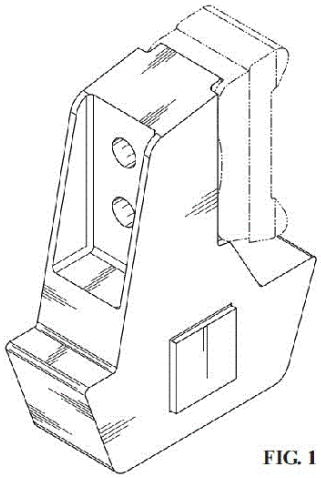
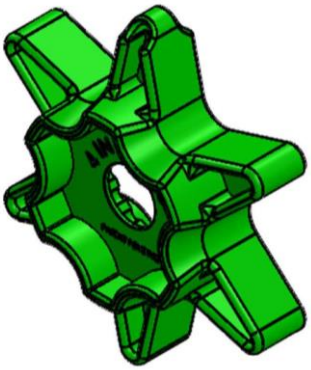
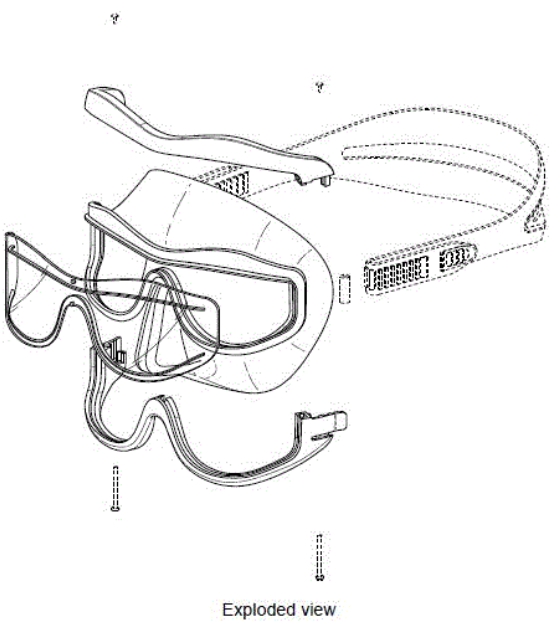


FIG. 1

21: F2023/01141 22: 2023-10-25 23:
43: 2024-06-14
52: Class 09 24: Part F
71: Flying Sourcer (Pty) Ltd
54: GASBOTTLE OPENER
57: The features of the design for which protection is claimed include the shape and/or configuration and/or pattern of an article substantially as shown in the accompanying representation(s).

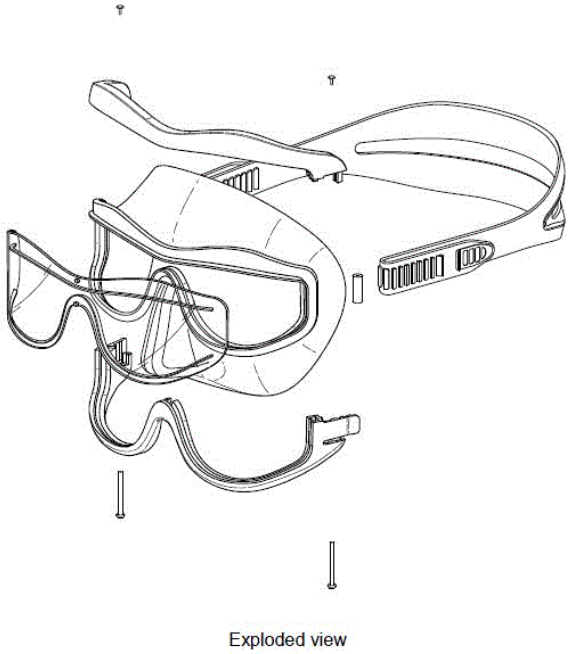


21: F2023/01147 22: 2023-10-25 23:
43: 2023-05-19
52: Class 21 24: Not Applicable
71: AGULHAS GEAR IP LIMITED
33: GB 31: 6284383 32: 2023-05-19
54: Diving Masks
57: The design is applied to a diving mask substantially as shown in the accompanying representations. The diving mask has a low-volume shape designed for breath-hold diving and includes a flexible skirt forming a water-tight seal around a user's face and defining a nose pocket, a semi-rigid frame and a viewing lens mounted within the frame. The lens is removably mounted to the frame which has a two-part structure comprising upper and lower frame sections which are releasably fastened to one another for securing the lens in place.



Exploded view

21: F2023/01148 22: 2023-10-25 23:
43: 2024-05-16
52: Class 21 24: Part F
71: AGULHAS GEAR IP LIMITED
33: GB 31: 6284385 32: 2023-05-19
54: DIVING MASKS
57: The design is applied to a diving mask substantially as shown in the accompanying representations. The diving mask has a low-volume shape designed for breath-hold diving and includes a flexible skirt forming a water-tight seal around a user's face and defining a nose pocket, a semi-rigid frame and a viewing lens mounted within the frame. The lens is removably mounted to the frame which has a two-part structure comprising upper and lower frame sections which are releasably fastened to one another for securing the lens in place.



Exploded view

21: F2023/01158 22: 2023-10-27 23:
43: 2024-05-15
52: Class 24 24: Part F
71: VERSAH, LLC
33: US 31: 29/875,677 32: 2023-05-09
54: BASE FOR SURGICAL BUR KIT HOLDER
57: The design is applied to a base for a surgical bur kit holder shown in perspective view in the drawing showing the overall appearance thereof.

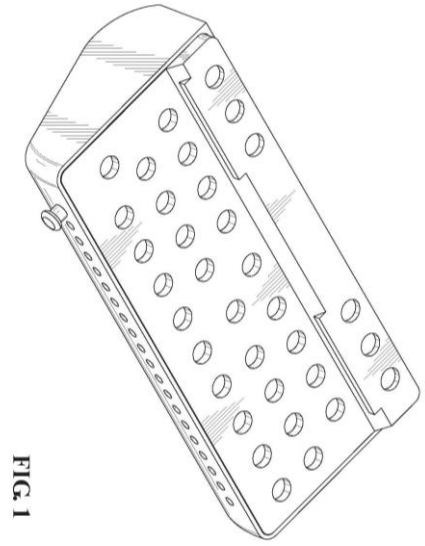


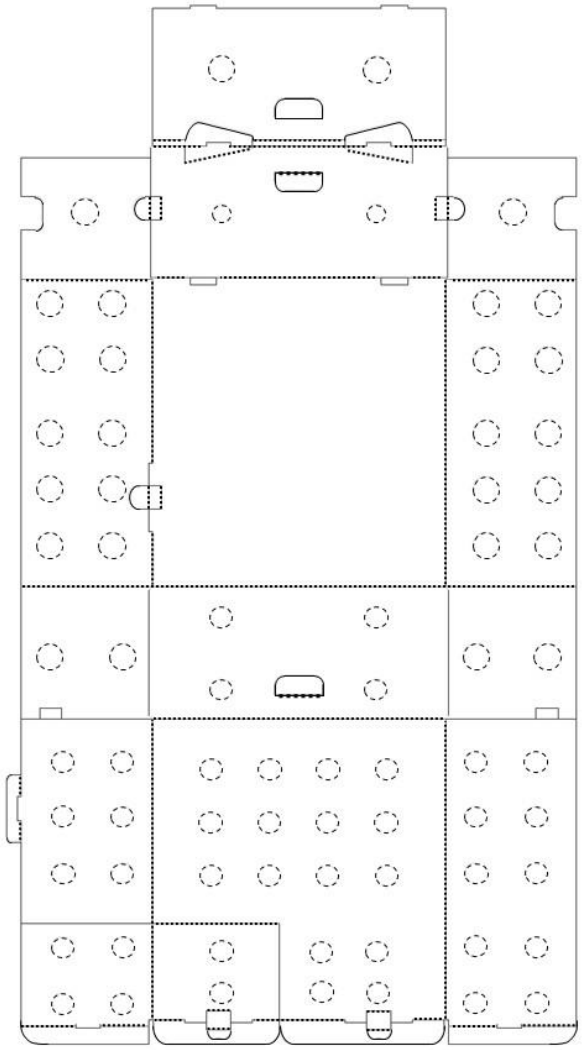
FIG. 1

21: F2023/01191 22: 2023-11-01 23:
43: 2024-06-11
52: Class 09 24: Part F

71: GED 263 (VAN 180) VAALDAM SETTLEMENT (PTY) LTD

54: A STORAGE BOX

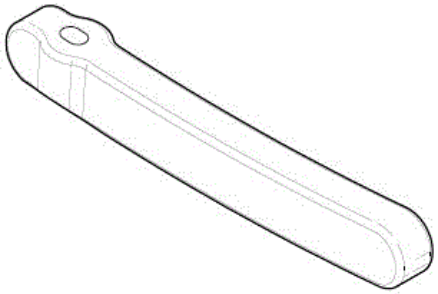
57: The design is applied to a storage box. The features of the design for which protection is claimed are those of the shape and/or configuration and/or pattern of the storage box, substantially as illustrated in the accompanying representation. Features of vent holes shown in broken lines do not form part of the design and are disclaimed.



21: F2023/01227 22: 2023-11-15 23:
43: 2024-06-11
52: Class 24 24: Part F
71: BECKER, Gert Stephanus

54: INTER-SURGICAL SCREW CONNECTING ROD

57: The features of the design for which protection is claimed comprise the shape and/or configuration of an inter-surgical screw connecting rod, substantially as illustrated in the accompanying representations.

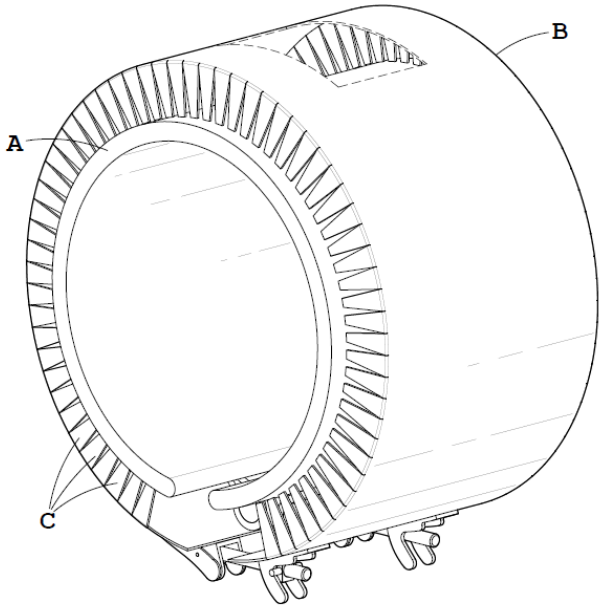


PERSPECTIVE VIEW

21: F2023/01421 22: 2023-12-14 23: 2023-06-29
43: 2024-07-03
52: Class 23 24: Part F
71: ENERGI SOLUTIONS AT AFRICA (PTY) LTD

54: BAND HEATER AND INSULATOR

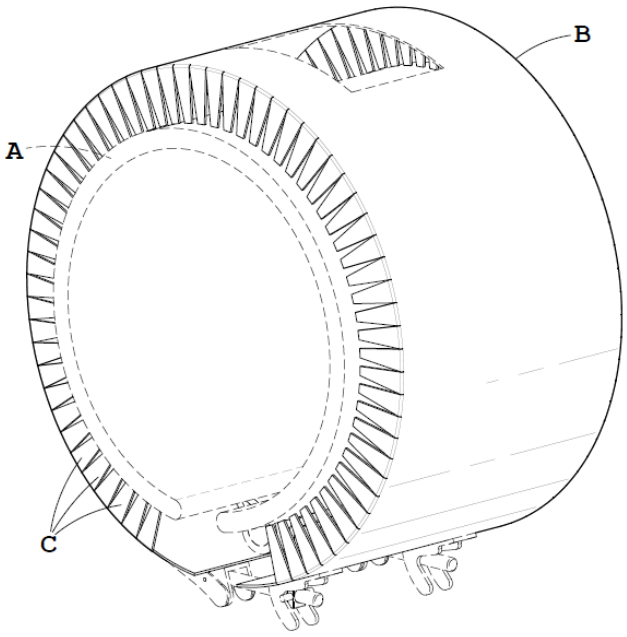
57: The features of the design for which protection is claimed resides in shape and/or configuration and/or pattern of a unit comprising a band heater A and insulator B for a container which contains a material or a conduit which conveys a material, substantially as shown in the accompanying representations.



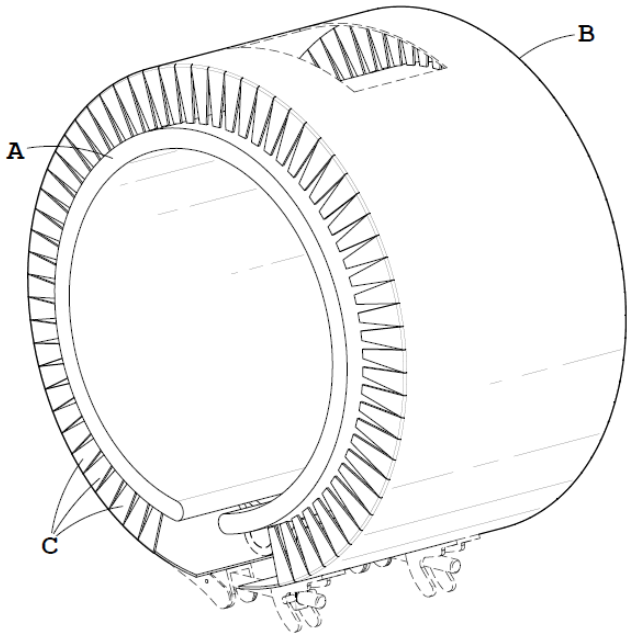
21: F2023/01422 22: 2023-12-14 23: 2023-06-29
43: 2024-07-03
52: Class 23 24: Part F
71: ENERGI SOLUTIONS AT AFRICA (PTY) LTD

54: INSULATOR FOR A BAND HEATER

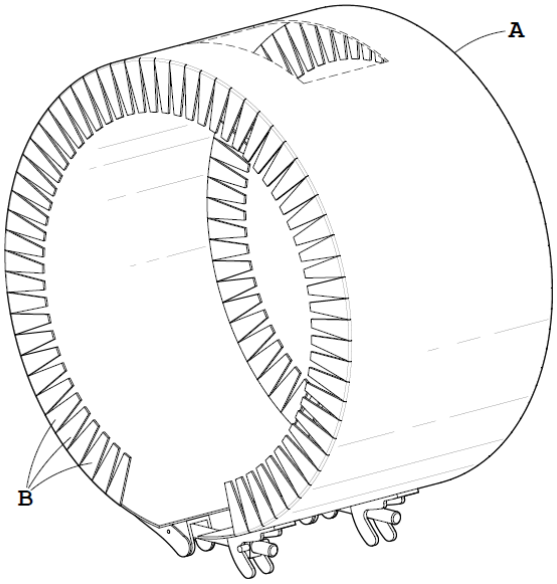
57: The features of the design for which protection is claimed resides in shape and/or configuration and/or pattern of an insulator B for a band heater A, substantially as shown in the accompanying representations.



21: F2023/01423 22: 2023-12-14 23: 2023-06-29
43: 2024-07-03
52: Class 23 24: Part F
71: ENERGI SOLUTIONS AT AFRICA (PTY) LTD
54: BAND HEATER AND INSULATOR
57: The features of the design for which protection is claimed resides in shape and/or configuration and/or pattern of a unit comprising a band heater and an insulator B for a container which contains a material or a conduit which conveys a material, substantially as shown in the accompanying representations.

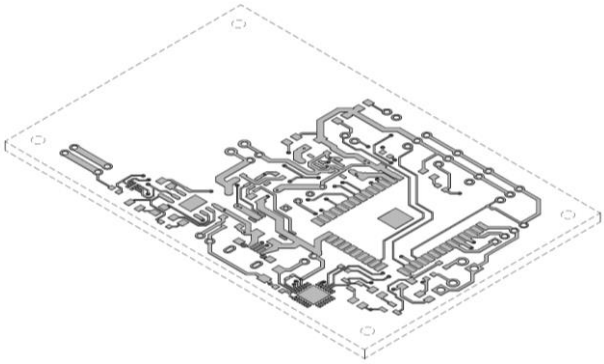


21: F2023/01424 22: 2023-12-14 23: 2023-06-29
43: 2024-07-03
52: Class 23 24: Part F
71: ENERGI SOLUTIONS AT AFRICA (PTY) LTD
54: INSULATOR FOR A BAND HEATER
57: The features of the design for which protection is claimed resides in shape and/or configuration and/or pattern of an insulator A for a band heater, substantially as shown in the accompanying representations.

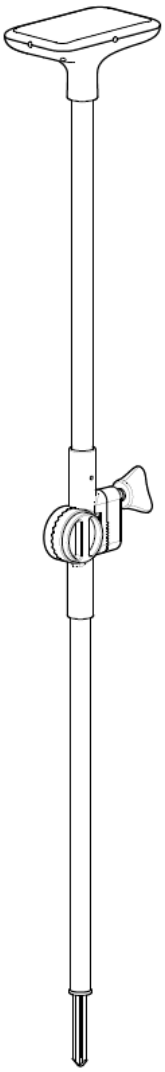


21: F2023/01454 22: 2023-12-20 23:
43: 2024-07-03

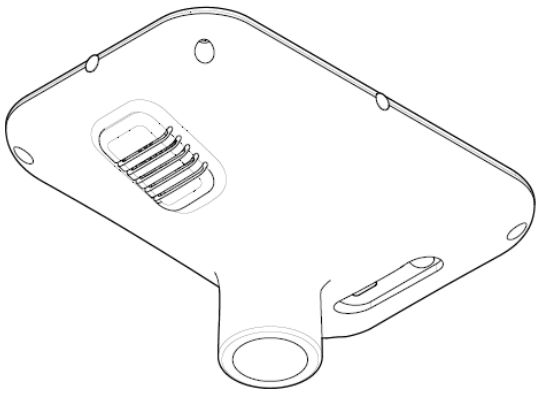
52: Class 14 24: Part F
71: DIVISION X (PTY) LTD
54: PRINTED CIRCUIT BOARD
57: The features of the design for which protection is claimed reside in the shape and/or configuration of a printed circuit board, substantially as shown in the accompanying representations, irrespective of the shape and/or configuration of features shown in broken lines.



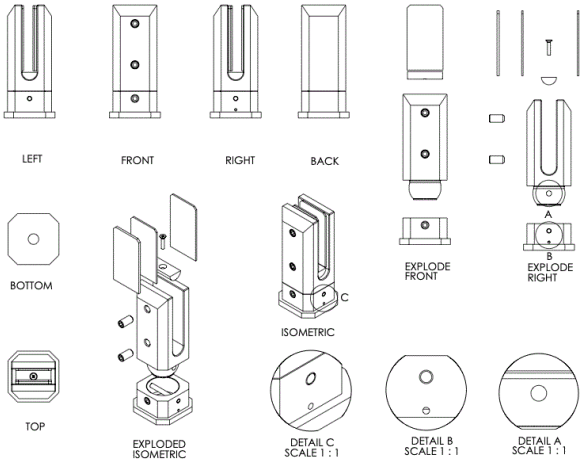
21: F2023/01456 22: 2023-12-20 23:
43: 2024-07-03
52: Class 10 24: Part F
71: DIVISION X (PTY) LTD
54: MONITORING DEVICE
57: The features of the design for which protection is claimed reside in the shape and/or configuration of a printed circuit board, substantially as shown in the accompanying representations.



21: F2023/01458 22: 2023-12-20 23:
43: 2024-07-03
52: Class 10 24: Part F
71: DIVISION X (PTY) LTD
54: MONITORING DEVICE
57: The features of the design for which protection is claimed reside in the shape and/or configuration of a printed circuit board, substantially as shown in the accompanying representations.



21: F2024/00435 22: 2024-05-08 23:
43: 2024-06-06
52: Class 8 24: Part F
71: Schematech (Pty) Ltd
54: SQUARE GLASS SPIGOT
57: The design relates to a Square Glass Spigot. The features of the design are those of shape and/or pattern and/or configuration.



HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

4. COPYRIGHT

COPYRIGHT IN CINEMATOGRAPH FILMS

NOTICES OF ACCEPTANCE

(Applications filed in terms of Act No. 62 of 1977)

Any person, who has grounds for objection to the registration of the copyright in any of the following cinematographs films, may within the prescribed time, lodge Notice of Opposition on Form RF 5 contained in the Second Schedule to the Registration of Copyright in Cinematograph Films Regulations, 1980. The prescribed time is one month after the date of advertisement. This period may on application be extended by the Registrar.

The numerical denote the following: **(21)** Official application number. **(22)** Date of application. **(43)** Date of acceptance. **(24)** Date(s) and place(s) at which cinematograph films was made. **(25)** Date and place of first publication. **(71)** Name (s) of all applicant (s). **(75)** Name of author. **(76)** Name of producer **(77)** Name of director **(54)** Title of cinematograph film. **(78)** Name(s) of principal players or narrator. **(26)** Places at which cinematograph film may be viewed and conditions. **(55)** Specimen lodged/Not lodged. **(56)** Preview requested/Not requested. **(57)** Abstract (Storyline). **(58)** Category.

21: 2020/00003. 22: 2024/07/12 43: 2024/07/12
24: 2022/08/25 to 2023/02/28; Johannesburg
25: 2023/03/15; Johannesburg
71: Okai Farayi Chinyanga
116 Frere Street, Bryanbrink, Johannesburg, 2194, South Africa
75: Fatuma Abdullah; Lereko Mfono; Musekiwa Samuriwo; Richard Grayson; Sibs Sibanda
76: Okai Farayi Chinyanga
77: Farisai Steven Kavayi
54: **Azania Rises**
78: Tebogo Makhopane; Lindo Vilakazi; Dima Maputla; Wadzanai Mabuto; Rutendo Kasiamhuru; Steven Hicks; Farayi Chinyanga
26: On appointment with Adams & Adams
55: Specimen lodged/Not lodged.
56: Preview Requested/Not requested
57: In the heart of Azania, the Murwi, an elite and covert force, are summoned for a high-stakes mission in the neighboring country of Balkoslavia. Their objective: to rescue the kidnapped Prime Minister. A fierce battle ensues, showcasing the Murwi's extraordinary abilities. They successfully rescue the Prime Minister and bring him back to safety, earning accolades and praise for their daring and efficient operation. The mission appears to be a resounding success. However, as the Murwi celebrate their victory, they remain unaware of the dark shadow looming over their homeland. Behind the kidnapping lies a sinister plot orchestrated by their arch-enemy, Louis Ampere—a brilliant and malevolent mastermind with a personal vendetta against Azania.

58: CA

HYPOTHECATIONS

No records available

JUDGMENTS

No records available

OFFICE PRACTICE NOTICES

No records available

5. CORRECTION NOTICES

TRADE MARK CORRECTION NOTICES

No records available

PATENT CORRECTION NOTICES

The following patent application numbers are appearing on the Index of the June 2024 journal, and they were not actually published in the journal and they are correctly advertised in the July 2024 journal.
2023/08631, 2022/01505, **2023/09937**

DESIGNS CORRECTION NOTICES

The Design restoration under application no: **F2023/01032** was advertised in the June 2024 Journal without a drawing, and it is re-advertised in the July 2024 journal its publication in the June 2024 journal is null and void, therefore it will take July 2024 publication date as the valid publication date.

COPYRIGHT CORRECTION NOTICES

No records available

PATENTS

Advertisement List for July 2024

Number of Advertised Patents: 615

Application Number	Patent Title	Filing Date
2012/08460	VIDEO-ENCODING METHOD AND VIDEO-ENCODING APPARATUS USING PREDICTION UNITS BASED ON ENCODING UNITS DETERMINED IN ACCORDANCE WITH A TREE STRUCTURE, AND VIDEO-DECODING METHOD AND VIDEO-DECODING APPARATUS USING PREDICTION UNITS BASED ON ENCODING UNITS DETERMINED IN ACCORDANCE WITH A TREE STRUCTURE	2012/11/09
2015/09018	CULTURE VESSEL AND CULTURE METHOD	2015/12/10
2016/06939	ORAL CARE COMPOSITION CONTAINING SILICA AND ZINC CITRATE	2016/10/10
2017/06740	ANTIBODIES DIRECTED AGAINST T CELL IMMUNOGLOBULIN AND MUCIN PROTEIN 3 (TIM-3)	2017/10/06
2017/08023	METHOD OF MAKING TOBACCO CUT FILLER	2017/11/24
2017/08667	TYROSINE KINASE INHIBITORS	2017/12/19
2017/08692	ANTIBACTERIAL COMPOUNDS	2017/12/20
2018/02119	SYSTEMS, METHODS, AND APPARATUS FOR MULTI¿ROW AGRICULTURAL IMPLEMENT CONTROL AND MONITORING	2018/04/03
2018/02606	COMPOSITIONS FOR DENTAL VARNISHES AND METHODS OF MAKING AND USING SAME	2018/04/19
2018/02966	PEPTIDES AND PEPTIDOMIMETICS IN COMBINATION WITH T CELL ACTIVATING AND/OR CHECKPOINT INHIBITING AGENTS FOR CANCER TREATMENT	2018/05/07
2018/07505	QUANTITATIVE PROFILING OF PROGESTERONE METABOLITES FOR THE PREDICTION OF SPONTANEOUS PRETERM DELIVERY	2018/11/08
2018/07769	PEROXYMONOSULFATE TOOTHPOWDER COMPOSITION FOR TENACIOUS STAINS	2018/11/19
2018/08422	EROSION AND CORROSION RESISTANT WHITE CAST IRONS	2018/12/13
2019/00173	STEEL SUITABLE FOR PLASTIC MOULDING TOOLS	2019/01/10
2019/00367	FORMULATION OF A PEPTIDE VACCINE	2019/01/18
2019/01050	FINGER PUMP	2019/02/19
2019/01657	SYSTEMS, METHODS, AND APPARATUS FOR AGRICULTURAL MATERIAL APPLICATION	2019/03/18
2019/02247	ANTI¿C1S ANTIBODIES AND METHODS OF USE THEREOF	2019/04/10

Application Number	Patent Title	Filing Date
2019/02969	A PROCESS FOR THE PREPARATION OF A TITANIUM-CONTAINING ZEOLITE	2019/05/13
2019/04218	ANTI¿CCR7 ANTIBODY DRUG CONJUGATES	2019/06/27
2019/04779	MICRONEEDLE ARRAYS AND METHODS FOR MAKING AND USING	2019/07/19
2019/05462	PROTEINS BINDING HER2, NKG2D AND CD16	2019/08/19
2019/07025	METHOD AND APPARATUS FOR PERFORMING A PERIPHERAL NERVE BLOCK	2019/10/24
2019/07580	MINING SCREENING PANEL FIXING SYSTEM	2019/11/15
2019/07819	ANTIBODIES RECOGNIZING TAU	2019/11/26
2019/07822	METHODS FOR GENDER DETERMINATION OF AVIAN EMBRYOS IN UNHATCHED EGGS AND MEANS THEREOF	2019/11/26
2019/08057	METHOD FOR DETECTING C. PERFRINGENS INDUCED DISEASES IN ANIMALS	2019/12/04
2019/08476	A METHOD OF PRODUCING A FOOD OR BEVERAGE PRODUCT WITH FREE DIVALENT CATIONS DAIRY AND PLANT PROTEIN AGGREGATION	2019/12/19
2020/00535	System and Method for Hierarchical Token Distribution on Blockchain Network	2020/01/27
2020/00903	A PROCESS FOR PREPARATION OF TRIAMINOPYRIMIDINE COMPOUND AND INTERMEDIATES THEREOF	2020/02/12
2020/01036	INTEGRATED FORMWORK METHOD FOR CONCRETE STRUCTURES	2020/02/19
2020/01883	IMPROVED METHOD FOR NICKEL-FREE PHOSPHATING METAL SURFACES	2020/03/24
2020/02760	ANTI-CXCR5 ANTIBODIES AND COMPOSITIONS AND USES THEREOF	2020/05/14
2020/03070	LASSA VACCINE	2020/05/25
2020/04572	BACILLUS COMBINATION FOR ADMINISTRATION TO ANIMALS	2020/07/23
2020/05450	SEED IMAGING	2020/09/01
2020/05801	FULL FLOW-THROUGH PROCESS FOR PURIFYING RECOMBINANT PROTEINS	2020/09/18
2020/06285	INDUCTION HEATING LINE BILLET PUSHOUT SYSTEM AND METHOD WITH JOINTED PUSH ROD ASSEMBLY	2020/10/09
2020/06503	NON-HUMAN ANIMAL MODELS OF DITRA DISEASE AND USES THEREOF	2020/10/20
2020/06504	ANTIBODIES, AND BISPECIFIC ANTIGEN-BINDING MOLECULES THAT BIND HER2 AND/OR APLP2, CONJUGATES, AND USES THEREOF	2020/10/20
2020/07034	THE CRYSTALLINE FORMS OF A COMPOUND	2020/11/11
2020/07154	3-(5-HYDROXY-1-OXOISOINDOLIN-2-YL)PIPERIDINE-2,6-DIONE DERIVATIVES	2020/11/17

Application Number	Patent Title	Filing Date
	AND THEIR USE IN THE TREATMENT OF IKAROS FAMILY ZINC FINGER 2 (IKZF2)-DEPENDENT DISEASES	
2020/07181	RESIN-GROUTED ROCK BOLT ASSEMBLY WITH AN ADAPTED SEALING BUSH	2020/11/18
2020/07406	ADENOASSOCIATED VIRUS VECTORS FOR THE TREATMENT OF MUCOPOLYSACCHARIDOSES TYPE IV A	2020/11/27
2020/07414	COMPOSITION FOR COATING FROZEN CONFECTIONERY AND A PROCESS FOR MANUFACTURING SAME	2020/11/27
2020/07421	LASER-BASED IMPLANT ALIGNMENT AND RESECTION GUIDE SYSTEMS AND RELATED METHODS	2020/11/27
2020/07452	INDUCTION HEATING SYSTEM AND HEATER	2020/11/30
2020/07687	PHARMACEUTICAL COMBINATION, COMPOSITION AND FORMULATION CONTAINING GLUCOKINASE ACTIVATOR AND a-GLUCOSIDASE INHIBITOR, PREPARATION METHODS AND USES THEREOF	2020/12/09
2020/07688	PHARMACEUTICAL COMBINATION, COMPOSITION, AND COMBINATION FORMULATION CONTAINING GLUCOKINASE ACTIVATOR AND PPAR RECEPTOR ACTIVATOR, AND PREPARATION METHODS, AND USES THEREOF	2020/12/09
2020/07810	MUTANT P-HYDROXYPHENYLPYRUVATE DIOXYGENASE, AND CODING NUCLEIC ACID AND USE THEREOF	2020/12/15
2020/07869	METHOD AND APPARATUS FOR PRODUCING A YARN	2020/12/17
2021/00107	CHIMERIC ANTIGEN RECEPTORS WITH BCMA SPECIFICITY AND USES THEREOF	2021/01/07
2021/00159	IMIDAZO[1,2-B]PYRIDAZINES AS TRK INHIBITORS	2021/01/11
2021/00178	METHOD AND SYSTEM FOR ACKNOWLEDGING PRESENCE IN A CONTEXT-AWARE ENVIRONMENT	2021/01/11
2021/00463	SAFETY APPARATUS AND METHOD	2021/01/20
2021/00478	METHOD AND DEVICE FOR ASCERTAINING THE LATERAL STRIP CONTOUR OR THE POSITION OF THE STRIP EDGES OF A RUNNING METAL STRIP	2021/01/22
2021/00583	INTERNALLY HEATED PHASE CHANGE MATERIAL HEAT BATTERIES	2021/01/27
2021/00854	PERSONAL CARE COMPOSITIONS	2021/02/08
2021/00974	APPARATUSES, METHODS AND SYSTEMS FOR INTELLIGENT AND FLEXIBLE TRANSFER SWITCHES	2021/02/12
2021/01002	METHODS FOR DETECTING AAV	2021/02/15
2021/01172	A SKILL LEVEL DETERMINATION AND	2021/02/22

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	MANAGEMENT SYSTEM AND METHOD	
2021/01695	METHOD FOR CONDITIONING WOOD BARRELS	2021/03/12
2021/02020	CANCER THERAPY BY COMBINATION USE OF ONCOLYTIC VACCINIA VIRUS AND IMMUNE CHECKPOINT INHIBITOR, AND PHARMACEUTICAL COMPOSITION AND COMBINATION MEDICINE FOR USE IN THE CANCER THERAPY	2021/03/25
2021/02096	NETWORK ROAMING AND INTERCOMMUNICATION METHOD, DEVICE, AND SYSTEM	2021/03/29
2021/02101	METHOD AND SYSTEM FOR MOUNTING LINING ELEMENTS AND THE LIKE	2021/03/29
2021/02223	TRISPECIFIC ANTI-CD38, ANTI-CD28, AND ANTI-CD3 BINDING PROTEINS AND METHODS OF USE FOR TREATING VIRAL INFECTION	2021/04/01
2021/02298	A SYSTEM FOR, AND A METHOD OF CREATING CYBERSECURITY SITUATIONAL AWARENESS, THREAT DETECTION AND RISK DETECTION WITHIN THE INTERNET-OF-THINGS SPACE	2021/04/07
2021/02343	METHODS FOR ANALYSIS OF VIRAL CAPSID PROTEIN COMPOSITION	2021/04/09
2021/02987	AN ENCAPSULATED DYE COMPOSITION AND A METHOD FOR PREPARATION THEREOF	2021/05/04
2021/03943	HYDROCYCLONE	2021/06/08
2021/04016	VIDEO CODING COMPRISING UNIFORM TILE SPLIT WITH REMAINDER	2021/06/10
2021/04424	PRINT COMPONENT WITH MEMORY ARRAY USING INTERMITTENT CLOCK SIGNAL	2021/06/25
2021/04426	DIE FOR A PRINTHEAD	2021/06/25
2021/04427	DIE FOR A PRINTHEAD	2021/06/25
2021/05055	FUSION PROTEINS OF HUMAN PROTEIN FRAGMENTS TO CREATE ORDERLY MULTIMERIZED IMMUNOGLOBULIN FC COMPOSITIONS WITH ENHANCED COMPLEMENT BINDING	2021/07/19
2021/05301	TARGETED DELIVERY OF THERAPEUTIC MOLECULES	2021/07/27
2021/05595	SYSTEM AND METHOD ENABLING INTERACTIONS IN VIRTUAL ENVIROMENTS	2021/08/10
2021/05895	INHIBITION OF UNINTENDED MUTATIONS IN GENE EDITING	2021/08/17
2021/07289	AUTOMATED SIGNAL COMPLIANCE MONITORING AND ALERTING SYSTEM	2021/09/28
2021/08305	UPLINK CONTROL INFORMATION	2021/10/27
2021/08310	METHOD OF ENHANCING THE THERAPEUTIC EFFICACY OF FEXAPOTIDE TRIFLUTATE IN TREATING LUTS	2021/10/27

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2021/08310	METHOD OF ENHANCING THE THERAPEUTIC EFFICACY OF FEXAPOTIDE TRIFLUTATE IN TREATING LUTS	2021/10/27
2021/08521	METHOD OF IMPROVING LOWER URINARY TRACT SYMPTOMS	2021/11/02
2021/09116	A METHOD OF DECREASING CONCENTRATION OF TAU (?) PROTEIN AND/OR PHOSPHORYLATED TAU (?) PROTEIN	2021/11/16
2021/09325	BATTERY SWAPPING STATION AND CONTROL METHOD THEREFOR	2021/11/19
2021/09587	GLUCAGON-LIKE PEPTIDE 1 RECEPTOR AGONISTS	2021/11/25
2021/09733	APPARATUS FOR MONITORING VALVE EXPANSION	2021/11/29
2021/10155	WAKE UP SIGNALING HANDLING IN DISCONTINUOUS RECEPTION	2021/12/08
2021/10475	AN APPARATUS AND A METHOD FOR VIDEO CODING AND DECODING	2021/12/15
2021/10604	BLOCKCHAIN TRANSACTION COMPRISING RUNNABLE CODE FOR HASH-BASED VERIFICATION	2021/12/17
2022/00223	A NET	2022/01/04
2022/00411	N-FORMYLHYDROXYLAMINES AS NEPRILYSIN (NEP) INHIBITORS, IN PARTICULAR AS MIXED AMINOPEPTIDASE N (APN) AND NEPRILYSIN (NEP) INHIBITORS	2022/01/07
2022/01094	SYSTEM AND METHOD FOR OPTIMIZATION OF THE FERMENTATION PROCESS	2022/01/24
2022/01139	EGG CARTON WRAPPING AID	2022/01/25
2022/01336	DIFFERENT FORMS OF 6-CHLORO-2-ETHYL-N-(4-(4-(4-(TRIFLUOROMETHOXY)PHENYL)PIPERIDINE-1-YL)BENZYL)IMIDAZO[1,2-A]PYRIDINE-3-CARBOXAMIDE	2022/01/27
2022/01505	BIS-[N-((5-CARBAMOYL)-1H-BENZO[D]IMIDAZOL-2-YL)-PYRAZOL-5-CARBOXAMIDE] DERIVATIVES AND RELATED COMPOUNDS AS STING (STIMULATOR OF INTERFERON GENES) AGONISTS FOR THE TREATMENT OF CANCER	2022/02/02
2022/01521	PARTICULATE CARBON MATERIAL PRODUCIBLE FROM RENEWABLE RAW MATERIALS AND METHOD FOR ITS PRODUCTION	2022/02/03
2022/01684	A NOVEL ATOMIZATION CORE	2022/02/08
2022/02110	CONTINUOUS SAMPLING DRILL BIT	2022/02/18
2022/02375	PHARMACEUTICAL COMPOUNDS	2022/02/24
2022/02419	DEBLOCKING FILTER SELECTION IN VIDEO OR IMAGE CODING	2022/02/25
2022/02599	THRUST LEG	2022/02/28

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2022/02877	ELASTIC PROSTHETICS OF RIBS	2022/03/09
2022/02919	P MATRICES FOR EHT	2022/03/10
2022/05336	PHYTOSANITARY COMPOSITION FOR USE AS A BACTERICIDE	2022/05/13
2022/05543	METHOD FOR PRODUCING MOLTEN STEEL	2022/05/19
2022/06302	INDICATOR FOR A MODULAR ROCK BOLT	2022/06/07
2022/06961	SUBSTATION OPERATION	2022/06/20
2022/08764	NUT CRACKER	2022/08/03
2022/10228	SEALING AND RESTRAINT SYSTEM FOR JOINING PLASTIC PIPE SECTIONS HAVING PRE-FORMED SOCKETS	2022/09/14
2022/10261	OXAZOLIDINONE COMPOUND AND METHODS OF USE THEREOF AS AN ANTIBACTERIAL AGENT	2022/09/15
2022/10339	PIPELAYER MACHINE WITH REAR ENGINE CONFIGURATION	2022/09/19
2022/10515	VERTICAL SHAFT KILN	2022/09/22
2022/10524	CORONAVIRUS VACCINE	2022/09/22
2022/10911	UV-VIS RADIATION CURABLE SECURITY INKS	2022/10/04
2022/11296	A MEDICAL SYRINGE	2022/10/14
2022/12065	ROLL-ON APPLICATORS	2022/11/04
2022/12137	N-CYANOPYRROLIDINES WITH ACTIVITY AS USP30 INHIBITORS	2022/11/07
2022/12432	GOODS AND SERVICE FACILITATION	2022/11/15
2022/12440	CONDUCTOR FOR USE WITH A DETONATOR AND DETONATOR ASSEMBLY	2022/11/15
2022/13094	METHOD TO ROAST COFFEE BEANS	2022/12/02
2022/13540	SURFACE CORROSION MONITORING SYSTEM	2022/12/14
2022/13566	2-OXOIMIDAZOLIDINE-4-CARBOXAMIDES AS NAV1.8 INHIBITORS	2022/12/14
2022/13770	COMPOSITIONS AND METHODS FOR TREATMENT OF FUNGAL INFECTIONS	2022/12/20
2022/13866	N-CYANOPYRROLIDINES WITH ACTIVITY AS USP30 INHIBITORS	2022/12/21
2022/13877	1-(5-(2-CYANOPYRIDIN-4-YL)OXAZOLE-2-CARBONYL)-4-METHYLHEXAHYDROPYRROLO[3,4-B]PYRROLE-5(1H)-CARBONITRILE AS USP30 INHIBITOR FOR USE IN THE TREATMENT OF MITOCHONDRIAL DYSFUNCTION, CANCER AND FIBROSIS	2022/12/21
2022/13887	SYSTEM AND METHOD FOR EXTRACORPOREAL BLOOD TREATMENT	2022/12/21
2022/13916	FLOAT APPARATUS	2022/12/22
2023/00151	NON-TOBACCO ORAL NICOTINE POUCH COMPOSITION	2023/01/03
2023/00212	SYSTEM AND METHOD FOR AUTOMATED DOCUMENT GENERATION	2023/01/04
2023/00425	NANOCOMPOSITE MATERIALS	2023/01/10
2023/00535	SYSTEM AND METHOD FOR PERSISTENT	2023/01/12

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	CONTACTLESS CHECK-IN	
2023/00772	ROASTING AND GRINDING APPARATUS FOR COFFEE BEANS	2023/01/17
2023/00773	GRINDING AND EXTRACTION APPARATUS FOR COFFEE BEANS	2023/01/17
2023/00775	ROASTING AND PROCESSING APPARATUS FOR COFFEE BEANS	2023/01/17
2023/00836	FUNGICIDAL COMPOSITION	2023/01/18
2023/01019	CONVEYOR BELT SCRAPER SYSTEM WITH SIMPLE MAINTENANCE	2023/01/24
2023/01020	SCRAPER WITH AN EASILY REPLACEABLE SCRAPER ELEMENT	2023/01/24
2023/01054	PROCESSES FOR REDUCING THE RATE OF PRESSURE DROP INCREASE IN A VESSEL	2023/01/24
2023/01065	HYDRAULIC SEAL	2023/01/25
2023/01099	PEI PARTICLE FOAMS WITH DEFINED RESIDUAL BLOWING AGENT CONTENT	2023/01/25
2023/01135	ORGANIC WASTE PROCESSOR	2023/01/27
2023/01215	USE OF TRIFLOXYSTROBIN FOR PREVENTION AND TREATMENT OF AGRICULTURAL PEST INSECTS AND MITES	2023/01/30
2023/01268	ROTATABLE RETAINER FOR HINGE RODS	2023/01/31
2023/01337	WALL SUPPORT STRAP	2023/02/02
2023/01338	A SECURITY DEVICE	2023/02/02
2023/01406	METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE	2023/02/03
2023/01408	METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE	2023/02/03
2023/01409	METHOD AND APPARATUS FOR ENCODING/DECODING IMAGE	2023/02/03
2023/01411	INTRA PREDICTION-BASED VIDEO ENCODING/DECODING METHOD AND DEVICE	2023/02/03
2023/01412	INTRA PREDICTION-BASED VIDEO ENCODING/DECODING METHOD AND DEVICE	2023/02/03
2023/01413	INTRA PREDICTION-BASED VIDEO ENCODING/DECODING METHOD AND DEVICE	2023/02/03
2023/01529	METHOD TO PRODUCE A SYNTHESIS PRODUCT, E.G. METHANE UTILIZING METHANOGENIC MICROORGANISMS IN A MICROBIAL ELECTROLYSIS CELL (MEC) BY APPLYING A SEPARATED NUTRIENT FEEDING STRATEGY	2023/02/07
2023/01866	CONTROL DEVICE AND METHOD FOR TRACTION CONVERTER	2023/02/15
2023/02153	DIFFUSER UNIT AND METHOD OF DIFFUSING AN AIRFLOW	2023/02/21
2023/02406	BIOLOGICAL TREATMENT OF EFFLUENTS RICH IN CARBONACEOUS MATTER AND NITROGEN WITH BIOGAS PRODUCTION	2023/02/23

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2023/02533	LIMESTONE CALCINED CLAY CEMENT (LC3) CONSTRUCTION COMPOSITION	2023/02/24
2023/03315	FOOD COMPOSITIONS AND APPLICATIONS THEREOF	2023/03/03
2023/03411	VEHICLE LICENSE RENEWAL KIOSK	2023/03/08
2023/03413	PRODUCTION OF HIGH TEMPERATURE POLYMER BASED PELLETS BY UNDERWATER PELLETIZATION AT ELEVATED WATER TEMPERATURE TO PRODUCE (RIGID) BEAD FOAMS	2023/03/08
2023/03414	NOVEL O-PHOSPHOSERINE EXPORT PROTEIN AND METHODS FOR PRODUCING O-PHOSPHOSERINE, CYSTEINE, AND CYSTEINE DERIVATIVE USING SAME	2023/03/08
2023/03424	POST-TENSIONED CONCRETE WITH FIBERS FOR SLABS ON SUPPORTS	2023/03/08
2023/03479	MICROORGANISM FOR PRODUCING PUTRESCINE AND PROCESS FOR PRODUCING PUTRESCINE BY USING SAME	2023/03/10
2023/03489	PELLETIZING FACILITY FOR THE GENERATION OF SOLID RECOVERED FUEL PELLETS AND USE OF THE SAME IN TORREFICATION	2023/03/10
2023/03500	CO SHIFT UNIT FOR THE CONVERSION OF SOLID WASTE INTO SYNGAS	2023/03/10
2023/03535	LOW CAPITAL AND OPERATIONAL COST E-COMMERCE LOGISTICS SYSTEM	2023/03/13
2023/03537	SHEET METAL PLATE WITH RAISED AREAS FOR CREATING INDUSTRIAL FLOORING WITH IMPROVED ADHESIVE PROPERTIES	2023/03/13
2023/03574	ANTENNA DEVICE FOR A WIRELESS GUEST ENGAGEMENT SYSTEM AND METHODS FOR MAKING AND USING THE SAME	2023/03/14
2023/03600	DEVICE FOR RECEIVING, STORING AND RELEASING THERMAL ENERGY	2023/03/15
2023/03603	PEST TRAPS	2023/03/15
2023/03604	EXPANSION JOINT	2023/03/15
2023/03606	MOUNTING POCKET FOR REMOTE EQUIPMENT MONITORING DEVICE	2023/03/15
2023/03645	TRUE HUMAN ANTIBODY SPECIFIC FOR INTERLEUKIN 1 ALPHA (IL-1ALPHA)	2023/03/16
2023/03646	WIRELESS SOIL TESTER WITH REAL-TIME OUTPUT	2023/03/16
2023/03647	REPLACEABLE SUPPORT MEMBER FOR A TRAILER COUPLING	2023/03/16
2023/03648	CAP FOR CONTAINER	2023/03/16
2023/03669	PURIFICATION DEVICE	2023/03/17
2023/03670	COMPOSITION OF GINSENOSIDES RG3 AND RG5 AND ANTI-TUMOR PHARMACEUTICAL USE THEREOF	2023/03/17
2023/03671	FORSYTHIAE FRUCTUS COMPONENT AND OPTIONAL GINSENG COMPONENT, AND	2023/03/17

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	USE THEREOF	
2023/03672	METHOD FOR MICROBIOME BALANCING	2023/03/17
2023/03673	ACRIDINIUM-BASED PHOTOREDOX CATALYSTS, SYNTHESIS AND USE THEREOF IN OXIDATIVE CLEAVAGE OF C-O BONDS	2023/03/17
2023/03674	CONFIGURATION OF CHANNEL STATE INFORMATION REFERENCE SIGNALS FOR WIRELESS COMMUNICATION SYSTEMS	2023/03/17
2023/03675	PRODUCTION OF BORON NITRIDE NANOSHEETS	2023/03/17
2023/03710	REMOTE ENGAGEMENT SYSTEM	2023/03/20
2023/03774	CHROMANOL COMPOUNDS FOR TREATMENT OF HEART FAILURE	2023/03/23
2023/03829	METHOD AND APPARATUS FOR COORDINATING MULTIPLE COOPERATIVE VEHICLE TRAJECTORIES ON SHARED ROAD NETWORKS	2023/03/24
2023/03830	METHODS OF PRODUCING DYES WITH VARIOUS HUE FROM HUITO FRUIT	2023/03/24
2023/03831	POWER ELECTRONIC DEVICE CONTROL INITIALIZATION METHOD	2023/03/24
2023/03832	SMOOTH SWITCHING METHOD FOR CONTROL POLICY OF VOLTAGE-SOURCE-TYPE CONVERTER	2023/03/24
2023/03833	POWER LIMITING METHOD APPLICABLE TO VOLTAGE SOURCE CONVERTER	2023/03/24
2023/03877	ARRANGEMENT OF CONTROLLING DRILLING PARAMETERS DURING EXTRACTION OF A DRILL STRING	2023/03/27
2023/03878	CLEANSING COMPOSITIONS COMPRISING A FATTY ACID AND SOAP MIXTURE AND METHOD FOR MAKING A CLEANSING BAR COMPRISING SAID MIXTURE	2023/03/27
2023/03904	PROCESS FOR REMOVING CYANIDE FROM A CYANIDE-BEARING AQUEOUS FLUID	2023/03/28
2023/03905	PLASTIC CONTAINER AND METHOD FOR DETERMINING A PROPERTY OF A PLASTIC CONTAINER	2023/03/28
2023/03959	ANTENNA DEVICE AND ELECTRONIC DEVICE COMPRISING SAME	2023/03/29
2023/03961	SYSTEM AND METHOD FOR LOW-COST STRUCTURE FABRICATION AND DEPLOYMENT	2023/03/29
2023/04004	CELL RETENTION DEVICE	2023/03/30
2023/04014	OPERATION MANAGEMENT SERVICE SYSTEM	2023/03/30
2023/04017	A RODENT-PROOF BARRIER MATERIAL AND A METHOD OF MANUFACTURING A RODENT-PROOF BARRIER MATERIAL	2023/03/30
2023/04050	ARTICULATED MOLD ARRANGEMENT FOR A GLASS PROCESSING SYSTEM	2023/03/31

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2023/04051	RADIATION RESISTANT INORGANIC OXIDE FLAKES	2023/03/31
2023/04054	ROTARY TELESCOPIC BOOM LIFT	2023/03/31
2023/04203	METHOD OF ACCESS CONTROL	2023/04/06
2023/04334	MEDICAL USE OF HONOKIOL	2023/04/12
2023/04354	WATER DIGGER	2023/04/12
2023/04490	COUPLING BETWEEN A STEERABLE WHEEL AND A HOUSING IN A VEHICLE WHEEL UNIT	2023/04/18
2023/04526	GOLF VEHICLE	2023/04/19
2023/04531	APPLICATION OF OXYBERBERINE IN PREPARATION OF DRUGS FOR METABOLIC DISEASES, AND PHARMACEUTICAL COMPOSITION COMPRISING OXYBERBERINE	2023/04/19
2023/04533	INSTALLATION DEVICE HAVING POWER-ENGINEERING OR BUILDING-SERVICES MODULES, AND METHOD FOR REMOVING A MODULE FROM AN INSTALLATION DEVICE OF THIS TYPE	2023/04/19
2023/04537	USE OF SPHINGOSINE-1-PHOSPHATE RECEPTOR AGONIST	2023/04/19
2023/04587	SATURATED WATER COMPACTION VIBRATING CONSTRUCTION PROCESS OF GRADED CRUSHED STONE	2023/04/20
2023/04767	CONVEYOR PULLEY ELECTRIC GENERATOR	2023/04/25
2023/04926	OPTIMIZING AUDIO DELIVERY FOR VIRTUAL REALITY APPLICATIONS	2023/05/03
2023/05638	MULTIPLE VISCOSITY OIL-IN-WATER COMPOSITION USEFUL AS AN INJECTABLE FILLER AND A SCAFFOLD FOR COLLAGEN GROWTH	2023/05/25
2023/05910	USE OF AN ANIMAL FEED ADDITIVE IN LOW-PROTEIN FEED FOR POULTRY	2023/06/02
2023/06225	PRECISE HEAT TREATMENT METHOD FOR LOW-CARBON LOW-ALLOY HIGHSTRENGTH THIN STEEL SHEETS	2023/06/13
2023/06227	MATERIALS AND METHODS FOR EXTENDING SHELF-LIFE OF FOODS	2023/06/13
2023/06228	SENOTHERAPEUTIC SUBSTANCE	2023/06/13
2023/06688	SYSTEMS AND METHODS OF OPERATING WATER FILTRATION SYSTEMS	2023/06/29
2023/06689	PROTECTION STRUCTURE AND METAL PROTECTION NET FOR SUCH A PROTECTION STRUCTURE	2023/06/29
2023/07595	HEAT EXCHANGE SYSTEM	2023/07/31
2023/08631	CONTAINER CLOSURE WITH TAMPER-EVIDENT RING, AND METHOD FOR ASSEMBLING A CONTAINER CLOSURE OF THIS KIND	2023/09/08
2023/08632	ASEPTIC CONTAINER CLOSURE HAVING A HINGE AND A MOUTHPIECE	2023/09/08
2023/08821	CONSTRUCTION METHOD FOR	2023/09/18

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	OVERWATER PILE SINKING BASED ON MOBILE PILE DRIVING PLATFORM	
2023/09189	A METHOD FOR NUMBERING, QR CODING AND/OR BARCODING OF BANKNOTES USING LASER WRITING	2023/09/29
2023/09259	SYSTEM FOR ELECTRICALLY FEEDING ELECTRICALLY POWERED VEHICLES	2023/10/03
2023/09340	FILTER FOR INFUSION MEDICAL LINES	2023/10/06
2023/09422	METHOD AND SYSTEM FOR CONTROLLING A POSITION AND/OR AN ORIENTATION OF AN ELONGATED STRUCTURE	2023/10/09
2023/09448	DYNAMICALLY FORECASTING HIGH RESOLUTION AIR TEMPERATURE IN REAL-TIME USING MULTIPLE SOURCES	2023/10/10
2023/09513	CIRCULAR KNITTING MACHINE FOR HOSIERY OR THE LIKE AND METHOD FOR PRODUCING A TUBULAR MANUFACTURE	2023/10/11
2023/09526	A MULTI-UTILITARIAN IMPLEMENT SUITABLE FOR USE ON THE DINING TABLE	2023/10/11
2023/09604	MOLD PART FOR MANUFACTURING TOOTHED VERTICAL JOINTS OF KEYSTONES AND MOLD COMPRISING THE MOLD PART	2023/10/13
2023/09605	SYSTEM FOR HANDLING A NACELLE OF A WIND TURBINE AND RELATED METHODS	2023/10/13
2023/09614	SUPPORT ELEMENT FOR A SEGMENT OF WIND TURBINE TOWERS, SUPPORT SYSTEM COMPRISING AT LEAST A SUPPORT ELEMENT AND METHOD OF SUPPORTING AT LEAST A SEGMENT OF WIND TURBINE TOWERS	2023/10/13
2023/09643	DOUBLE FIRING MODE SEMI-AUTOMATIC HANDGUN	2023/10/16
2023/09718	METHOD FOR PRODUCING FLOAT GLASS FROM UNPROCESSED MINERAL MATERIALS	2023/10/18
2023/09720	COMPOSITIONS	2023/10/18
2023/09759	COMBUSTION SYSTEM USING, AS AN OXIDISER, A MIXTURE OF MOLECULAR OXYGEN AND A DEHUMIDIFIED GAS OBTAINED FROM COMBUSTION FUMES	2023/10/06
2023/09928	FRAGRANCE FOR IMPROVING HAPPINESS STATE AND METHOD OF ASSESSING	2023/10/24
2023/09929	ORAL CARE FLAVOUR FOR IMPROVING RELAXATION STATE AND METHOD OF ASSESSING	2023/10/24
2023/09930	FRAGRANCE FOR IMPROVING RELAXATION STATE AND METHOD OF ASSESSING	2023/10/24
2023/09937	CIRCUIT BREAKER	2023/10/24
2023/09966	ORAL CAPSULE OF PARP INHIBITOR AND PREPARATION METHOD THEREOF	2023/10/25
2023/10011	PROCESS FOR PRODUCING THIN JUICE FOR THE PRODUCTION OF SUGAR,	2023/10/26

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	PROCESS FOR PRODUCING SUGAR AND SUGAR PRODUCTION PLANT	
2023/10057	ANTI-C-MET ANTIBODY DRUG CONJUGATES	2023/10/27
2023/10058	ELECTROLYTE FORMULATIONS AND ADDITIVES FOR IRON ANODE ELECTROCHEMICAL SYSTEMS	2023/10/27
2023/10146	MONITORING AND EARLY WARNING METHOD BASED ON BOTDA FOR TUNNEL OPERATION	2023/10/31
2023/10147	TEMPERATURE COMPENSATION METHOD FOR BOTDA MONITORING DATA BASED ON DIFFERENT SURROUNDING ROCK GRADES IN TUNNELS	2023/10/31
2023/10173	ORAL CARE FLAVOUR FOR IMPROVING HAPPINESS STATE AND METHOD OF ASSESSING	2023/10/31
2023/10174	FRAGRANCE FOR IMPROVING INVIGORATION STATE AND METHOD OF ASSESSING	2023/10/31
2023/10175	ORAL CARE FLAVOUR FOR IMPROVING INVIGORATION STATE AND METHOD OF ASSESSING	2023/10/31
2023/10183	WEDGING ARRANGEMENT TO PLUG A BLAST HOLE	2023/10/31
2023/10243	BIPOLAR PLATE FOR A FUEL CELL STACK OR AN ELECTROLYZER STACK	2023/11/02
2023/10353	Toilet Installation	2023/11/07
2023/10354	HAMSTRING COMPRESSION DEVICE	2023/11/07
2023/10369	A PROCESS FOR TRANSITION METAL OXIDE REDUCTION	2023/11/07
2023/10373	SYSTEM, METHOD AND APPARATUS FOR COMPUTING AND MANAGING THE FLOW RATE WITHIN AN IRRIGATION CORNER ASSEMBLY	2023/11/07
2023/10397	FUEL COMPOSITION FOR COMBUSTION	2023/11/08
2023/10411	MULTI PURPOSE URINAL MAT	2023/11/08
2023/10570	COMPOSITIONS AND METHODS FOR CONTROLLING INSECTS	2023/11/14
2023/10576	FUME HARVESTING AND ACCUMULATION SYSTEM, METHOD AND EXTRACT FOR DISSOLVING IN A TINCTURE	2023/11/14
2023/10609	MUON TELESCOPE AND NEUTRON DETECTOR, SYSTEM FOR MEASURING AND CHARACTERIZING LARGE VOLUMES, AND METHODS	2023/11/15
2023/10611	IMMUNOGENIC COMPOSITIONS COMPRISING CONJUGATED CAPSULAR SACCHARIDE ANTIGENS AND USES THEREOF	2023/11/15
2023/10628	CONTROLLING AN ANTI-THEFT DEVICE	2023/11/16
2023/10643	HANDLING OF MEDIUM ACCESS CONTROL (MAC) ENTITY DURING SECONDARY CELL	2023/11/16

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	GROUP (SCG) DEACTIVATION/REACTVATION	
2023/10721	MAIZE POLLEN STORAGE AND CARRIER	2023/11/20
2023/10748	PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING DIABETES MELLITUS IN ANIMAL OF FAMILY CANIDAE, COMPRISING ENAVOGLIFLOZIN	2023/11/21
2023/10755	IMMUNOGENIC COMPOSITION AGAINST INFLUENZA	2023/11/21
2023/10760	STABLE S-(+)-ABSCISIC ACID NONAQUEOUS LIQUID SOLUTIONS	2023/11/21
2023/10779	COMPOSITIONS AND METHODS FOR ENHANCED GENE EXPRESSION	2023/11/22
2023/10780	COMPOSITIONS AND METHODS FOR ENHANCED GENE EXPRESSION	2023/11/22
2023/10782	DIGITAL PLATFORM FOR SECURE OPERATION-AND-MAINTENANCE OF CLEAN ROOM BASED ON INTERNET OF THINGS	2023/11/22
2023/10860	AN EVALUATION METHOD OF ECOLOGICAL SUITABILITY OF AGRICULTURAL LAND	2023/11/24
2023/10867	MULTI-AGONIST AND USE THEREOF	2023/11/24
2023/10895	SAFE ACCESS CONTROL MANAGEMENT SYSTEM FOR STUDENTS	2023/11/27
2023/10898	PANT SUITABLE FOR PATIENTS WITH URETER ABDOMINAL WALL STOMA	2023/11/27
2023/10915	SKIN LOTION DISPENSER	2023/11/27
2023/10919	DEVICE AND METHOD FOR SIMULATING UNDERGROUND PIPELINE LEAKAGE DURING SHIELD CONSTRUCTION	2023/11/27
2023/10947	AMPHOTERIC ION CONDUCTING MEMBRANE FOR FLOW BATTERY, PREPARATION METHOD THEREFOR, AND FLOW BATTERY	2023/11/28
2023/10958	APPLICATION OF GREEN MANURE BY INCORPORATING UNDECOMPOSED PLANT TISSUES INTO SOIL UNDER CONTINUOUS CROPPING OF STRAWBERRIES	2023/11/28
2023/11008	ADJUSTABLE, INTERCHANGEABLE HOLSTER	2023/11/29
2023/11033	METHOD AND SYSTEM FOR MEASURING NON-VERBAL BEHAVIOR OF TEACHER	2023/11/29
2023/11035	PHOSPHONYL DERIVATIVE, AND COMPOSITION AND PHARMACEUTICAL APPLICATION THEREOF	2023/11/29
2023/11055	CARROT HARVESTING APPARATUS	2023/11/30
2023/11056	ARCH STRUCTURE OF CHAIN-GRATE BOILER USING BALED BIOMASS FUEL	2023/11/30
2023/11063	IMPROVED ROTARY TELEHANDLER	2023/11/30
2023/11101	TM4SF19 INHIBITOR AND USES THEREOF	2023/11/30
2023/11126	OXYGEN SUPPLY, COOLING AND DUST REMOVAL METHOD FOR TUNNEL CONSTRUCTION	2023/12/01

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2023/11127	AN ELECTROSTATIC SPRAY PLANT PROTECTION ROBOT	2023/12/01
2023/11128	A PORTABLE MULTIFUNCTIONAL ADJUSTABLE MEDICATED MOXIBUSTION DEVICE AND ITS APPLICATION METHOD	2023/12/01
2023/11245	COMPOSITION COMPRISING AT LEAST ONE ALKYL (POLY)GLYCOSIDE, AT LEAST ONE FATTY ALCOHOL, AT LEAST ONE FATTY ACID, AND AT LEAST ONE ALKALINE AGENT	2023/12/06
2023/11247	COSMETIC COMPOSITION COMPRISING AT LEAST ONE ALKYL (POLY)GLYCOSIDE, N,NDICARBOXYMETHYLGLUTAMIC ACID, PROPANE-1,3-DIOL, AT LEAST ONE FATTY SUBSTANCE OTHER THAN FATTY ACIDS, AT LEAST ONE DYE	2023/12/06
2023/11264	MUNICIPAL SLUDGE OXYGEN-ENRICHED SELF-PYROLYSIS DRYING ROTARY KILN AND RESOURCE UTILIZATION AND DISPOSAL METHOD	2023/12/07
2023/11266	A METHOD FOR REMOVING IMPURITIES AND EXTRACTING MANGANESE AND EXTRACTING IRON BY MANGANESE WASTE RESIDUE REDUCTION ROASTING	2023/12/07
2023/11269	MATERIAL SUPPLY DEVICE FOR 3D PRINTING	2023/12/07
2023/11270	NOZZLE STRUCTURE FOR 3D PRINTING	2023/12/07
2023/11276	RETAINING DEVICE FOR MEDICAL TUBING	2023/12/07
2023/11283	ISARIDIN CYCLIC LIPOPEPTIDE DERIVATIVE, AND PREPARATION METHOD THEREFOR AND USE THEREOF	2023/12/07
2023/11284	GAS BURNER	2023/12/07
2023/11295	CONCRETE TOWER WITH SEVERAL SECTIONS	2023/12/07
2023/11315	A DISTRIBUTED CONTROL METHOD FOR SPACECRAFT FORMATION TRAJECTORY TRACKING AND RELATED EQUIPMENT	2023/12/08
2023/11353	FOOD TABLET PRESS WITH DEHUMIDIFICATION FUNCTION	2023/12/11
2023/11361	CONTINUOUS GROUPING DEVICE FOR TAIL END OF CONVEYOR LINE	2023/12/11
2023/11362	DEVICE FOR TRAPPING DEBRIS IN A NUCLEAR FUEL ASSEMBLY	2023/12/11
2023/11395	RARE EARTH-BASED COMPOSITE MINERAL ALGAE-INHIBITING WATER PURIFYING AGENT AND USE METHOD THEREOF	2023/12/12
2023/11396	DEVICE AND METHOD FOR QUANTIFYING ADHESION LOSS	2023/12/12
2023/11397	METHOD FOR INTERPRETING MULTI-PARAMETER CONTRIBUTIONS IN A ROCK PHYSICS MODEL BASED ON NEURAL NETWORKS	2023/12/12
2023/11398	A KIND OF DATA FUSION METHOD, DEVICE	2023/12/12

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	AND STORAGE MEDIUM USED FOR STEPPED FREQUENCY RADAR SIGNAL	
2023/11400	LACTOSE-FREE PREBIOTIC LIQUID GOAT MILK AND PREPARATION METHOD THEREOF	2023/12/12
2023/11401	FOREST CARBON SINK METROLOGICAL DETECTION DEVICE	2023/12/12
2023/11402	DETECTING DEVICE FOR THE CARBON SEQUESTRATION CAPACITY OF TREES	2023/12/12
2023/11403	A METHOD FOR PREDICTING CARBON SINK OF ARTIFICIAL FOREST	2023/12/12
2023/11404	MOBILE PHONE MANAGEMENT DEVICE FOR STUDENTS	2023/12/12
2023/11405	A MOBILE CARBON SINK MEASURING DEVICE	2023/12/12
2023/11406	A FORCED FLAMEOUT DEVICE AND METHOD FOR ENGINE FUEL CONSUMPTION MONITORING OF SPEEDBOAT	2023/12/12
2023/11408	A DETECTION METHOD FOR MULTI-FEATURE DATA OF ASPHALT PAVEMENT	2023/12/12
2023/11409	AN EVALUATION METHOD FOR ANTI-FATIGUE PERFORMANCE OF BRIDGE DECK PAVEMENT STRUCTURE	2023/12/12
2023/11419	BIOGAS SLURRY, BIOGAS RESIDUE AND BIOGAS PRODUCTION TANK FOR GRASS PLANTING IN ALPINE PASTURING AREA	2023/12/12
2023/11421	BLAST CONFIRMATION	2023/12/12
2023/11443	A DRILL BIT	2023/12/12
2023/11444	INTEGRATED LEG CIRCUMFERENCE MEASURING RULER DEVICE FOR DEEP VENOUS THROMBOSIS	2023/12/13
2023/11445	A METHOD TO IMPROVE THE CUTTAGE BREEDING EFFICIENCY OF ‘HANCE’	2023/12/13
2023/11447	A HIGH-PERFORMANCE CALCIUM TITANATE-TYPE LA2NIO4 ELECTRODE MATERIAL, ITS PREPARATION METHOD, AND APPLICATION.	2023/12/13
2023/11449	NOVEL MULTIFUNCTIONAL OUTDOOR PROTECTIVE CLOTHING	2023/12/13
2023/11450	SELF-CLEANING PHOTOVOLTAIC MODULE	2023/12/13
2023/11451	HEAT DISSIPATION BACKSHEET FOR PHOTOVOLTAIC MODULES	2023/12/13
2023/11452	A FINANCIAL MANAGEMENT METHOD AND SYSTEM	2023/12/13
2023/11453	EXPANDABLE PLANT CONTAINER	2023/12/13
2023/11454	BLOOD SAMPLE COLLECTING BOX FOR ANIMAL EPIDEMIC DISEASE DETECTION	2023/12/13
2023/11455	PHOBR AND KDPE GENE DELETION STRAINS, REPLACEMENT STRAINS AND CONSTRUCTION METHODS AND APPLICATIONS OF AEROMONAS DHAKENSIS FROM CROCODILES	2023/12/13

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2023/11456	A METHOD FOR CONSTRUCTING A GLOMERULAR DISEASE CLASSIFICATION AND DIAGNOSIS MODEL BASED ON URINE SAMPLE HYPERSPECTRAL IMAGES	2023/12/13
2023/11461	ENVIRONMENT-FRIENDLY FLAME-RETARDANT RUBBER COMPOSITE WITH HIGH WEATHERABILITY AND MANUFACTURING METHOD THEREFOR	2023/12/13
2023/11498	A COMBINED CONSTRUCTION METHOD OF STEEL TRESTLE, STEEL WORKING PLATFORM AND STEEL SHEET PILE COFFERDAM	2023/12/14
2023/11499	A MOBILE SLOPE BOLT DRILLING EQUIPMENT	2023/12/14
2023/11500	ADJUSTABLE PHOTOVOLTAIC SOLAR POWER GENERATION DEVICE	2023/12/14
2023/11501	A CROSS SECTION OPTIMIZATION METHOD BASED ON FULL PARAMETRIC BODY MATHEMATICAL MODEL	2023/12/14
2023/11504	COMPUTER SECURITY CONTROLLER BASED ON LARGE DATA	2023/12/14
2023/11505	STATISTICAL SYSTEM FOR PRODUCT DATA CLASSIFICATION BASED ON TIME SERIES ANALYSIS	2023/12/14
2023/11506	HYBRIDIZATION METHOD FOR OAT WITHOUT CUTTING GLUME AND APPLICATION THEREOF	2023/12/14
2023/11548	A WATER QUALITY DETECTION DEVICE	2023/12/18
2023/11549	A THERMOPLASTIC POLYURETHANE/PHOSPHOGYPSUM COMPOSITE MATERIAL AND A PREPARATION METHOD THEREOF AND ITS APPLICATION	2023/12/18
2023/11550	COMPOSITION FOR PREVENTING AND CONTROLLING YAM NEMATODES AND APPLICATION THEREOF	2023/12/18
2023/11551	A VACUUM ISOTHERMAL FORGING PROCESS AND DEVICE SUITABLE FOR HIGH TEMPERATURE TITANIUM-BASED MATERIALS	2023/12/18
2023/11552	DIGITAL TOUR ROUTE CUSTOMIZATION MANAGEMENT SYSTEM	2023/12/18
2023/11553	PEDAL REHABILITATION INSTRUMENT WITH SOUND WAVE THERAPY FUNCTION	2023/12/18
2023/11554	AN AUTOMATIC CHESTNUT DEHUSKING DEVICE AND DEHUSKING METHOD	2023/12/18
2023/11555	AN APPARATUS FOR MONITORING AND CONTROLLING WANDERING ANIMALS TO ENHANCE ROAD SAFETY	2023/12/18
2023/11556	SYSTEM FOR MEASURING PROPORTIONS OF COMPONENTS OF COMPOSITE MATERIAL BASED ON GAMMA RAYS	2023/12/18

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2023/11557	DEVICE FOR ASSISTING PATIENTS TO RECOVER COGNITION BY SIMULATING FISHING ENVIRONMENT	2023/12/18
2023/11558	A COAL GANGUE-BASED FOAMED CERAMIC AND ITS PREPARATION METHOD	2023/12/18
2023/11559	AN OPTIMIZED ESTIMATION METHOD FOR THE MAINTENANCE RESOURCE REQUIREMENTS OF ELECTRONIC DEVICES, A CONTROL DEVICE, AND A READABLE STORAGE MEDIUM	2023/12/18
2023/11560	IMMEDIATE RELEASE FIXED-DOSE COMBINATION OF MEMANTINE AND DONEPEZIL	2020/05/29
2023/11561	CONTACT MIXED CULTURE METHOD OF GLIAL CELLS AND NEURONS	2023/12/18
2023/11564	THREE-WAY PIPE FITTING PROCESSING DEVICE	2023/12/18
2023/11565	COMPOSITION AND METHOD FOR SYNTHESIS OF NATURAL MOSQUITO REPELLENT PRODUCT FROM SOYABEAN CAKE	2023/12/18
2023/11567	APPLICATION OF FLUOROPYRIDOXAL IN PREPARING MEDICINE FOR COPING WITH CANCER	2023/12/18
2023/11577	METHOD AND APPLICATION OF BIOCHAR PREPARATION FROM BIOMASS USING FREEZE-THAW CYCLING	2023/12/18
2023/11582	LITHIUM BATTERY POSITIVE ELECTRODE MATERIAL PRECURSOR, PREPARATION METHOD THEREFOR AND APPLICATION THEREOF	2023/12/18
2023/11593	SYSTEMS AND METHODS FOR POWER GENERATION, TRANSMISSION, AMPLIFICATION AND/OR STORAGE	2023/12/18
2023/11602	COMPOUND OF REACTION OF ALKALOID AND PHENOL, ATOMIZATION LIQUID, CARTOMIZER AND ELECTRONIC ATOMIZER	2023/12/18
2023/11611	A STAGGERED BROKEN-LINE STEPPED SPILLWAY	2023/12/19
2023/11612	A METHOD FOR PREPARING A HIGHLY COMPATIBLE TACKIFIER FOR SILICONE RUBBER	2023/12/19
2023/11613	A PREPARATION METHOD FOR SILICONE OIL AND ITS APPLICATION	2023/12/19
2023/11614	MULTI-SCALE CONTINUOUS CALCULATION SYSTEM FOR MESO-MECHANICAL PROPERTIES OF ENERGETIC MATERIAL	2023/12/19
2023/11615	A DEEP LEARNING-BASED IMAGE PROCESSING METHOD AND DEVICE	2023/12/19
2023/11616	HIGH-POWER AND HEAVY-LOAD BACK-TO-BACK PLANETARY GEAR TEST PLATFORM	2023/12/19
2023/11617	MICROGRID ARCHITECTURE FOR	2023/12/19

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	SHIPBOARD NUCLEAR POWER PLANT BASED ON SUPERCAPACITOR	
2023/11618	AN INTELLIGENT ANTI-REFLECTION STRUCTURE WITH ADJUSTABLE BANDS AND FREQUENCY DOMAINS, AND ITS PREPARATION METHOD	2023/12/19
2023/11619	A METHOD OF LIFTING BALLASTLESS TRACK AND A METHOD OF SETTLING ADJUSTMENT	2023/12/19
2023/11620	DIRECT POWER COMPENSATION SYSTEM FOR OIL RIG MICROGRIDS	2023/12/19
2023/11621	SUPERCAPACITOR ACTIVE EQUALIZATION SYSTEM AND METHOD USING SOC AS AN EQUALIZATION INDEX	2023/12/19
2023/11622	LASER-INDUCED BREAKDOWN SPECTRUM DETECTION SYSTEM	2023/12/19
2023/11623	HIGHWAY PAVEMENT LEVELING EQUIPMENT AND USING METHOD THEREOF	2023/12/19
2023/11624	A TEXTILE DIPPING GLUE CURING TREATMENT DEVICE	2023/12/19
2023/11625	PRECISE PESTICIDE APPLICATION SYSTEM AND METHOD FOR TREE ROOT	2023/12/19
2023/11626	DENSITY ADJUSTMENT DEVICE	2023/12/19
2023/11631	PUMP STATION-LID JOINT MULTI-OBJECTIVE OPTIMIZATION METHOD BASED ON DOA ALGORITHM	2023/12/19
2023/11632	METHOD FOR PROCESSING STEEL SLAG BASED ON LIBRARY INFORMATION SERVICE	2023/12/19
2023/11633	ROADBED WATER AND SOIL COMBINED SURCHARGE PRELOADING SYSTEM	2023/12/19
2023/11659	A DISPOSABLE TABLE COVER	2023/12/20
2023/11661	MECHANICAL MINING CONSTRUCTION FOR THIN TO MEDIUM-THICK OREBODY AND MINING METHOD THEREOF	2023/12/20
2023/11662	A TOPICAL MEDICINAL LIQUOR FOR TREATING BONE PAIN AND A PREPARATION METHOD THEREOF	2023/12/20
2023/11663	METHOD OF MECHANICAL EXCAVATION AND SUPPORT IN A BACKFILL	2023/12/20
2023/11666	METHOD FOR DETECTING WATER-FLOWING FRACTURE ZONE HEIGHT IN MINING OVERLYING STRATA BASED ON STRESS MONITORING	2023/12/20
2023/11667	PAVING DEVICE AND PAVING METHOD FOR ASPHALT MIXTURE PAVEMENT WITH PHOTOCATALYTIC MODIFIER	2023/12/20
2023/11668	PREFABRICATED STEEL BAR BINDING MOULD FOR PIERS	2023/12/20
2023/11675	MULTIPLE PRODUCTS FROM BRASSICA	2023/12/20
2023/11681	OPERATION SYSTEM AND OPERATION METHOD FOR VIRTUAL SPACE OR ONLINE MEETING SYSTEM	2023/12/20

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2023/11705	LIPID COMPOUNDS AND LIPID NANOPARTICLE COMPOSITIONS	2023/12/20
2023/11706	METHOD AND SYSTEM FOR CONDUCTING ORE PRESORTING BASED ON HIERARCHICAL ARRAYED INTELLIGENT SORTING	2023/12/20
2023/11708	METHOD AND SYSTEM FOR PERFORMING INTELLIGENT SORTING BASED ON DYNAMIC ADJUSTMENT OF THRESHOLD	2023/12/20
2023/11709	VELOCITY OF DETONATION MEASUREMENT	2023/12/20
2023/11734	ROAD MAINTENANCE PAVEMENT JOINT FILLING EQUIPMENT	2023/12/20
2023/11735	BIG DATA-BASED COMPUTER CONSULTING SERVICE PLATFORM	2023/12/20
2023/11736	SYSTEM FOR ACQUIRING WATER SAMPLE OF WETLAND BASED ON UNMANNED AERIAL VEHICLE (UAV)	2023/12/21
2023/11737	INTELLIGENT PEOPLE TRANSPORT SYSTEM BESIDE MINE ROADWAY	2023/12/21
2023/11738	BLIND DETECTION ALGORITHM OF UAV FREQUENCY HOPPING SIGNAL BASED ON ADAPTIVE MORPHOLOGY	2023/12/21
2023/11739	SIMULATION METHOD OF RESIDUAL VOID POSITION IN ROCK STRATA IN COAL MINING SUBSIDENCE AREA	2023/12/21
2023/11740	A DUST SUPPRESSION SYSTEM FOR PRODUCTIVE DUST CONTROL AT UNDERGROUND LOADING AND CRUSHING POINTS	2023/12/21
2023/11742	MICRONEEDLE ARRAY	2023/12/21
2023/11743	BLOOD STORAGE SYSTEM AND WORKING METHOD THEREOF	2023/12/21
2023/11744	SYSTEM AND METHOD FOR PERFORMING TENANT PROVISIONING	2023/12/21
2023/11753	STABLE SYSTEM FOR INDUSTRIAL CONTROL HOST INTEGRATED INTO SHIP SYSTEMS	2023/12/21
2023/11754	METHOD AND SYSTEM FOR CONTINUOUSLY MONITORING HEIGHT OF WATER DIVERSION FISSURE ZONE UNDERGROUND IN REAL TIME	2023/12/21
2023/11757	APPLICATION OF A RED-BILLED GULL IFN-GAMMA GENE AND ITS ENCODED RECOMBINANT PROTEIN	2023/12/21
2023/11764	PACKAGING SYSTEM AND METHOD	2023/12/21
2024/00008	METHOD FOR MICROSEISMIC EVENT LOCATING IN LAYERED STRATA	2024/01/02
2024/00009	HIGHWAY CRACK TREATMENT DEVICE	2024/01/02
2024/00010	FIBROUS COMPOSITE MULTILAYER FORWARD OSMOSIS MEMBRANE AND PREPARATION METHOD AND APPLICATION THEREOF	2024/01/02

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2024/00011	FULLY-ASSEMBLED THREADED STEEL PIPE UHPC COMBINED PILE FOUNDATION	2024/01/02
2024/00012	HYBRIDIZATION METHOD CAPABLE OF IMPROVING SEED SETTING RATE OF DENDROBIUM CANDIDUM	2024/01/02
2024/00013	FILM-WINDING STUBBLE-COLLECTING DEVICE FOR RECYCLING RESIDUAL FILMS	2024/01/02
2024/00015	CONTROL METHOD OF TANK LEACH PROCESS OF HIGH SOLID CONTENT SLURRY CONTAINING COARSE PARTICLES	2024/01/02
2024/00016	A PREPARATION METHOD OF BISMUTH NIOBATE MULTI-HOLE MICROSPHERES WITH PHOTOCATALYTIC ACTIVITY	2024/01/02
2024/00018	A FEEDSTUFF FOR IMPROVING GROWTH PERFORMANCE OF BEEF CATTLE AND PREPARATION METHOD THEREOF	2024/01/02
2024/00019	A PORTABLE CIRCUIT TESTING INSTRUMENT	2024/01/02
2024/00020	METHOD FOR CONFIGURING THE NUMBER OF DETECTING INSTRUMENTS	2024/01/02
2024/00021	LINK11 SIGNAL IDENTIFICATION METHOD BASED ON CUMULATIVE AUTOCORRELATION	2024/01/02
2024/00023	METHOD FOR MAINTAINING STABILITY OF SURROUNDING ROCKS BY DOWNWARD PASTE FILLING OF PRESSED COAL UNDER WATER BODY BASED ON DIGITAL TWIN	2024/01/02
2024/00026	RATIO-TYPE ELECTROCHEMICAL SENSOR BASED ON MOF DUAL-SIGNAL PROBE, AND PREPARATION METHOD AND DETECTION METHOD THEREOF	2024/01/02
2024/00027	SAFETY WORK CLOTHES FOR PREVENTING BLOCKING VISION AND USING METHOD THEREOF	2024/01/02
2024/00028	ENVIRONMENTAL MONITORING EQUIPMENT SUPPORT AND ENVIRONMENTAL MONITORING VEHICLE	2024/01/02
2024/00029	RAPID SCREENING METHOD FOR POLLINATION MALE PLANTS IN ACTINIDIA ARGUTA ORCHARD AND APPLICATION THEREOF	2024/01/02
2024/00030	APPLICATION OF BACTROCERA DORSALIS INTESTINAL BACTERIA IN PREPARING BACTROCERA DORSALIS ATTRACTANT	2024/01/02
2024/00031	OPEN-TYPE DETECTION DEVICE AND METHOD FOR STEEL WIRE ROPE	2024/01/02
2024/00032	APPLICATION OF TUSC5 GENE ASSOCIATED WITH INTRAMUSCULAR FAT CONTENT IN DUROC PIGS	2024/01/02
2024/00033	METHOD, SYSTEM, APPARATUS AND MEDIUM FOR EVALUATING HIGH GROUND STRESS STATE OF ROCK MASS	2024/01/02

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2024/00034	SILICON-CARBON NEGATIVE ELECTRODE MATERIAL FOR LITHIUM ION BATTERY AND PREPARATION METHOD THEREOF	2024/01/02
2024/00035	ROADWAY LAYOUT METHOD OF FULLY MECHANIZED CAVING FACE IN EXTRA-THICK COAL SEAM	2024/01/02
2024/00036	A SORTING AND CONVEYING DEVICE FOR LOGISTICS SUPPLY CHAINS	2024/01/02
2024/00037	COMPUTER CONTROL EARLY WARNING SYSTEM	2024/01/02
2024/00038	ZOKOR HUNTING DEVICE	2024/01/02
2024/00039	A PRODUCTION EQUIPMENT, PREPARATION METHODS, AND APPLICATIONS OF CARBON SINK ALGAE LIQUID BASED ON PHOTOSYNTHETIC GREEN ALGAE ALGAE	2024/01/02
2024/00040	COMPOUND FEED FOR CULTIVATING HERMETIA ILLUCENS AND PREPARATION METHOD THEREOF	2024/01/02
2024/00041	SCANNING PEN FOR ENGLISH TRANSLATION	2024/01/02
2024/00042	A METHOD FOR EXTRACTING AND MANAGING INFORMATION OF SURFACE UNEVEN DEFORMATION OF AIRPORT IN RECLAMATION AREA	2024/01/02
2024/00043	AN ANTI-FREEZING AND ANTI-SLIDING DEVICE FOR MINE RAMP	2024/01/02
2024/00044	INFORMATION DISPLAY DEVICE FOR COLLEGE STUDENTS' EMPLOYMENT GUIDANCE	2024/01/02
2024/00045	AN EXTRACTION METHOD FOR BURNED AREA BASED ON DUAL-POLARIZATION SAR REMOTE SENSING IMAGE	2024/01/02
2024/00046	ENERGY-ABSORBING ANCHOR CABLE FOR LARGE DEFORMATION RESISTANCE WITH ASSOCIATED CONSTRUCTION METHOD OF UNDERGROUND ENGINEERING	2024/01/02
2024/00047	APPARATUS AND METHOD FOR MECHANICAL MIXING OF MEAT PRODUCTS	2024/01/02
2024/00049	GUIDANCE EQUIPMENT FOR COLLEGE STUDENTS' INNOVATION AND ENTREPRENEURSHIP	2024/01/02
2024/00050	NOVEL DEVICE FOR ARTIFICIAL BREEDING OF CHIROPTERA	2024/01/02
2024/00052	AN EFFECTIVE MINING TUNNEL APPARATUS RESISTANT TO MINING PRESSURE AND ROCK STRATA CONTROL	2024/01/02
2024/00053	AN OBSERVATION DEVICE AND METHOD FOR MEASURING THE ABSOLUTE CONVERGENCE OF A TUNNEL'S SURFACE	2024/01/02
2024/00054	AN EFFICIENT SOLID-LIQUID SEPARATION DEVICE	2024/01/02

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2024/00055	ORGANIC PHOTOVOLTAIC MATERIAL BASED ON PERYLENE DIMIDE AND PREPARATION METHOD THEREOF	2024/01/02
2024/00057	A PHOTOVOLTAIC MICROGRID CONTROL SYSTEM	2024/01/02
2024/00058	A POWER SUPPLY SYSTEM AND CONTROL METHOD FOR A SHIP	2024/01/02
2024/00059	LASER CLADDING TECHNIQUE AND DEVICE WITH PULSE INTERMITTENT POWDER FEEDING AND MULTI-DIMENSIONAL ALTERNATING MAGNETIC FIELD AUXILIARY FUNCTIONS	2024/01/02
2024/00060	CADMIUM TELLURIDE PHOTOVOLTAIC PHOTOTHERMAL COMPONENT WITH HIGH HEAT DISSIPATION PERFORMANCE AND PREPARATION METHOD THEREOF	2024/01/02
2024/00061	DISPLAY DEVICE FOR INNOVATION AND ENTREPRENEURSHIP OF COLLEGE STUDENTS AND USING METHOD THEREOF	2024/01/02
2024/00062	IDENTIFICATION METHOD FOR SALT TOLERANCE OF SOYBEANS AT GERMINATION STAGE	2024/01/02
2024/00063	PREFABRICATED NON-COMBINED SANDWICH ELECTRIC HEATING HEAT PRESERVATION WALLBOARD	2024/01/02
2024/00064	NUMERICAL SIMULATION METHOD FOR INSTANTANEOUS EVOLUTION OF HVOF THERMAL SPRAYING COMBUSTION FLAME FLOW OF LIQUID FUEL BASED ON EULER-LAGRANGE	2024/01/02
2024/00066	IDENTIFICATION METHOD FOR QINGKE PLANT HEIGHT TRAITS	2024/01/02
2024/00067	MONITORING SYSTEM FOR OPERATING SITUATIONS OF NON-STOP PIPELINE HOLE-OPENING MACHINE	2024/01/02
2024/00068	A BRAKE SYSTEM SAFETY DEVICE FOR ELECTRIC VEHICLES	2024/01/02
2024/00069	AN AUTOMATED SOLDERING STAND ASSISTS USER IN HIGH FIDELITY SOLDERING	2024/01/02
2024/00070	A REGENERATOR SITE SELECTION SYSTEM IN OPTICAL NETWORKS	2024/01/02
2024/00071	A LIGHTPATH ROUTING AND WAVELENGTH ASSIGNMENT SYSTEM FOR TRANSLUCENT OPTICAL NETWORKS	2024/01/02
2024/00072	SYSTEM AND METHOD FOR EVALUATING ANTILEPROTIC ACTIVITIES BY DRUG REPURPOSING AND CHEMOTHERAPY WITH DRUG RESCUED MOLECULES	2024/01/02
2024/00073	PARKING SLOT OCCUPANCY PREDICTION SYSTEM	2024/01/02
2024/00074	A DYNAMIC PREDICTION METHOD AND	2024/01/02

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	DEVICE FOR MINE WATER INFLOW	
2024/00075	STERILIZING AND MOSQUITO-KILLING SMOKE TABLET COMBINING MUGWORT POWDER AND LAVENDER POWDER	2024/01/02
2024/00076	DEWATERING DEVICE FOR TEXTILE FABRICS	2024/01/02
2024/00077	DEVICE FOR DISPLAYING AND PRESERVING INTANGIBLE CULTURAL HERITAGE	2024/01/02
2024/00078	BRIDGE TRANSIENT VIBRATION TESTING DEVICE	2024/01/02
2024/00079	A MINE WATER INFLOW TREATMENT SYSTEM AND ITS METHOD OF USE	2024/01/02
2024/00081	METHOD FOR VEGETATIVE PROPAGATION OF SUPERIOR PLANTS OF AQUILARIA SINENSIS OF QI-NAN GERMPLASMS	2024/01/02
2024/00082	METHOD FOR OBTAINING RAPID PROPAGATION TISSUE CULTURE OF DENDROBIUM OFFICINALE	2024/01/02
2024/00083	AN ANTIOXIDANT HIGHLAND PEDIOCOCCUS PENTOSACEUS TYR-2, ITS CELL-FREE EXTRACT, AND APPLICATIONS	2024/01/02
2024/00084	A NOVEL ANTIOXIDANT HIGHLAND LACTICASEIBACILLUS PARACASEI TDM-2 AND ITS CELL-FREE EXTRACT AND APPLICATIONS	2024/01/02
2024/00085	EFFICIENT ISOLATING AGENT FOR FIRE POLISHING OF BOROSILICATE GLASS BEADS	2024/01/02
2024/00086	METHOD OF WATER-PRESERVED COAL MINING IN LIGHT-COLOURED CLAY AREA	2024/01/02
2024/00099	COLLEGE STUDENT INNOVATION AND ENTREPRENEURSHIP CREDIT MANAGEMENT SYSTEM AND METHOD BASED ON BLOCKCHAIN TECHNOLOGY	2024/01/02
2024/00130	METHOD FOR INHIBITING CHALCOPYRITE BY COPPER ION-ENHANCED SULFUR-BASED REDUCING AGENT	2024/01/03
2024/00131	A PROCESSING SYSTEM BASED ON THE FULL RESOURCE UTILIZATION OF SEED MELON	2024/01/03
2024/00132	A DUST PROTECTION DEVICE FOR A LOADING AND UNLOADING WORKING SECTION	2024/01/03
2024/00133	A METHOD FOR COOKING PEA-SAUCE NOODLES BY USING XIZANG WHITE PEA RESOURCES	2024/01/03
2024/00134	A METHOD FOR CONSERVING AND EXPANDING WILD LEEK ROOT TUBER GERMPLASM RESOURCES IN ALPINE REGION	2024/01/03
2024/00135	A PLANTING METHOD FOR PREVENTING AND CONTROLLING THE LODGING ROOT	2024/01/03

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2024/00137	SYSTEM COMBINING SEGMENTED A2 /O SEWAGE TREATMENT AND SLUDGE RESOURCE UTILIZATION	2024/01/03
2024/00138	TRAJECTORY GENERATION METHOD FOR DRONE TARGET TRACKING	2024/01/03
2024/00165	SEWAGE TREATMENT SAMPLING DETECTION DEVICE	2024/01/04
2024/00166	ONLINE INTERACTIVE LEARNING SYSTEM SUITABLE FOR INTERNATIONAL LAW	2024/01/04
2024/00167	EPIDEMIC SIMULATION ECOLOGICAL BOX PROVIDED WITH DOUBLE-LAYER PROTECTIVE STRUCTURE	2024/01/04
2024/00168	ARCHED INTERNAL SUPPORT SYSTEM FOR RECTANGULAR FOUNDATION PIT SUPPORT AND DESIGN METHOD THEREOF	2024/01/04
2024/00169	SYNCHRONOUS CONTROL SYSTEM FOR DUAL-AXIS SYNCHRONOUS LASER CUTTING EQUIPMENT	2024/01/04
2024/00170	SYNCHRONOUS CONTROL METHOD FOR GANTRY DOUBLE-DRIVE	2024/01/04
2024/00171	INTERNATIONAL LAW LEARNING EVALUATION SYSTEM	2024/01/04
2024/00172	AUTOMATIC MOVING CONVEYING SYSTEM	2024/01/04
2024/00173	TISSUE CULTURE AND RAPID PROPAGATION METHOD OF RHODODENDRON DENUDATUM ASEPTIC SEEDLINGS	2024/01/04
2024/00174	METHOD FOR BREEDING CUSCUTA AUSTRALIS BY USING INVASIVE PLANT PHYTOLACCA AMERICANA	2024/01/04
2024/00175	DEVICE FOR RAPIDLY DRYING SOIL	2024/01/04
2024/00176	NEW ANTIBACTERIAL, ANTI-INFLAMMATORY, AND ANALGESIC MEDICINAL AND EDIBLE TRADITIONAL CHINESE MEDICINE COMPOSITION AND PREPARATION METHOD THEREOF	2024/01/04
2024/00178	BLOOD TYPE DETECTOR DEDICATED TO BLOOD TRANSFUSION DEPARTMENTS	2024/01/04
2024/00183	SALINE-ALKALI LAND IRRIGATION APPARATUS	2024/01/04
2024/00203	INDOOR VENTILATION SYSTEM BASED ON CONVECTION IN LIMITED RANGE	2024/01/05
2024/00204	CONVEYOR BELT STORAGE DEVICE	2024/01/05
2024/00205	EASY-TO-CLEAN WATER CIRCULATION SYSTEM FOR BUILDINGS	2024/01/05
2024/00208	METHOD FOR DETECTING PRIMARY AND PRECURSOR MIRNAS	2024/01/05
2024/00212	GRINDING DEVICE AND METHOD FOR PREPARING EPOXY RESIN ENCAPSULATING MATERIAL WITH THE DEVICE	2024/01/05
2024/00213	FAULT-TOLERANT CONTROL METHOD FOR	2024/01/05

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2024/00214	METHOD AND SYSTEM FOR EVALUATING CARBON AND NITROGEN FOOTPRINT OF PLANTING INDUSTRY IN AGRICULTURAL AREAS	2024/01/05
2024/00215	AQUEOUS GEL COMPOSITION	2024/01/05
2024/00219	A VIBRATING SCREEN PROCESSING EQUIPMENT FOR TEA PRODUCTION WITH CONTROLLABLE MOTION RANGE	2024/01/05
2024/00236	METHOD AND SYSTEM FOR OBTAINING LOAD BRAKING DISTANCE OF ESCALATOR BASED ON BRAKING TEST	2024/01/08
2024/00237	BIOLOGICAL CHARACTERISTIC AUTHENTICATION METHOD BASED ON FULL HOMOMORPHIC ENCRYPTION	2024/01/08
2024/00238	NEW TYPE OF ELECTROCHROMIC DOOR AND WINDOW	2024/01/08
2024/00240	A METHOD, DEVICE, AND MEDIUM AIMED AT REDUCING LATENCY IN EDGE NODES BASED ON CLOUD COMPUTING	2024/01/08
2024/00241	OPEN SINTERING APPARATUS AND SINTERING METHOD FOR SINTERING ORE	2024/01/08
2024/00242	ANTI-COLLAPSE REINFORCING DEVICE FOR REVETMENT	2024/01/08
2024/00243	THREE DIMENSIONAL FITTING ROOM PLATFORM FOR ONLINE STORES	2024/01/08
2024/00244	METHOD FOR TREATING NON-POINT SOURCE POLLUTED WATER BASED ON ARTIFICIAL WETLAND RESTORATION	2024/01/08
2024/00246	A TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING RAPID HEALING OF FRACTURE AND A PREPARATION METHOD THEREOF	2024/01/08
2024/00247	A TRADITIONAL CHINESE MEDICINE COMPOSITION FOR TREATING CAROTID ARTERY PLAQUE AND CARDIO-CEREBROVASCULAR STENOSIS AND A PREPARATION METHOD THEREOF	2024/01/08
2024/00248	A COMPOSITION OF CHINESE MEDICINE FOR EXTERNAL USE FOR TREATING BURNS AND SCALDS AND A PREPARATION METHOD THEREOF	2024/01/08
2024/00249	CHINESE HERBAL FORMULA FOR DEWORMING AND PREPARATION METHOD THEREOF	2024/01/08
2024/00250	A METHOD FOR SYNTHESIZING MACROPORUS POLY (N-ISOPROPYL ACRYALAMIDE) HYDROGEL SCAFFOLD FOR CHEMOTHERAPY TREATMENT	2024/01/08
2024/00251	GROUND-BOREHOLE TRANSIENT ELECTROMAGNETIC METHOD FOR MONITORING FORMATION PROCESS OF	2024/01/08

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2024/00285	METHOD FOR PREPARING CALCIUM SULFATE WHISKERS WITH HIGH ASPECT RATIO	2024/01/09
2024/00286	GROUTING AND PRE-TIGHTENING INTEGRATED TEST ANCHOR ROD	2024/01/09
2024/00287	METHOD FOR DIAGNOSING THRA GENE MUTATION WITH HIGH SENSITIVITY	2024/01/09
2024/00288	A PREPARATION METHOD OF CARBON-BASED LOADED HIGH-ENTROPY METAL SALT COMPOSITES	2024/01/09
2024/00289	A DIAGNOSIS METHOD OF ROLLING BEARING FAULT BASED ON ADAPTIVE MATHEMATICAL MORPHOLOGY	2024/01/09
2024/00290	A SIMULATION METHOD OF AUTOMATIC CONTROL MODEL BASED ON MATHEMATICAL CALCULATION	2024/01/09
2024/00291	ASSEMBLED WALL	2024/01/09
2024/00292	COOLING AND ELECTRICAL ENERGY STORAGE DEVICE FOR BEDROOM OF APARTMENT	2024/01/09
2024/00294	A FORMULA FOR TREATING BONE HYPERPLASIA AND PREPARATION METHOD THEREOF	2024/01/09
2024/00299	ARBOR SEED COLLECTION DEVICE	2024/01/09
2024/00300	SEASONING CHILI SAUCE FERMENTED BY LACTIC ACID BACTERIA AND PREPARATION METHOD THEREFOR	2024/01/09
2024/00301	WATER BODY PURIFICATION APPARATUS FOR RURAL LANDSCAPE TREATMENT	2024/01/09
2024/00333	A HIGH-ENTROPY GARNET SOLID-STATE ELECTROLYTE CERAMIC AND ITS PREPARATION METHOD AND APPLICATION	2024/01/10
2024/00334	A HIGH-ENTROPY SPINEL ABSORBING CERAMIC MATERIAL AND ITS PREPARATION METHOD	2024/01/10
2024/00335	A SOLID WASTE WET SEPARATION EQUIPMENT AND SEPARATION METHOD THEREOF	2024/01/10
2024/00336	METHOD AND SYSTEM FOR OBTAINING EQUIVALENT NO-LOAD KINETIC ENERGY OF ESCALATOR BASED ON LOAD BRAKING	2024/01/10
2024/00337	AN ENHANCED TEMPERATURE SELF-REGULATING ASPHALT PAVEMENT CONSTRUCTION MATERIAL, STRUCTURE AND CONSTRUCTION METHOD THEREOF	2024/01/10
2024/00338	FORWARD-MOVING GUIDE SNOW SHOVEL CAPABLE OF QUICKLY DISCHARGING SNOW	2024/01/10
2024/00339	PLOW FOR MIXING STRAW AND SUBSOIL	2024/01/10
2024/00340	OPTIMAL SELECTION METHOD AND	2024/01/10

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	SYSTEM FOR DEEP BRINE TARGET AREA	
2024/00341	DEVICE FOR MEASURING UNDERGROUND GROWTH OF ROOT VEGETABLES	2024/01/10
2024/00342	ALL-WEATHER ROAD MOBILE SIGN CART	2024/01/10
2024/00343	METHOD FOR TREATING HIGHWAY ROADBED SETTLEMENT BY HIGH-PRESSURE JET GROUTING PILE DOUBLE-PIPE METHOD	2024/01/10
2024/00344	MINIATURE TILLER CAPABLE OF TURNING BY 360 DEGREES IN PLACE	2024/01/10
2024/00345	LYOPHYLLUM DECASTES (FR.:FR) SING. MYCELIUM HEALTH TEA AND PREPARATION METHOD THEREFOR	2024/01/10
2024/00349	TORSION HOLDER	2024/01/10
2024/00350	A SYSTEM FOR DETERMINING AUTHENTICITY OF NEWS ARTICLES ON DIGITAL PLATFORMS	2024/01/10
2024/00357	DEPLOYMENT OF A DETONATOR ASSEMBLY	2024/01/10
2024/00381	COMPOSITE SOIL TURNING AND MIXING DEVICE	2024/01/11
2024/00383	METHOD FOR RECONCILING CURRENT ACCOUNTS, COMPUTER-READABLE STORAGE MEDIUM AND ELECTRONIC DEVICE BASED ON FINANCIAL VOUCHER DATA	2024/01/11
2024/00384	AUTOMATED INQUIRY PROCUREMENT METHOD, SYSTEM AND COMPUTER STORAGE MEDIA BASED ON SAP SUPPLIER MANAGEMENT SYSTEM	2024/01/11
2024/00387	METHOD, SYSTEM, AND TERMINAL FOR ACHIEVING A UNIFIED CODE FOR ECO-TOURISM SCENIC AREAS	2024/01/11
2024/00396	COMPOSITE MATERIAL FOR MECHANICAL FILTRATION AND CHEMICAL BONDING OF SUBSTANCES, BACTERIA AND VIRUSES FROM SOLUTION	2024/01/11
2024/00423	A DEVICE FOR PREPARING MIXED FATTY ACID METHYL ESTER	2024/01/12
2024/00424	INDOOR INTELLIGENT PATROL FIRE-FIGHTING ROBOT	2024/01/12
2024/00425	AN EFFICIENT EXTRACTION AND SEPARATION DEVICE FOR ANTIOXIDANT GRASS MUSHROOM POLYSACCHARIDES AND ITS PROCESS	2024/01/12
2024/00427	FUNGICIDE FOR SYNERGISTIC CONTROL OF LEAF DISEASES OF CHINESE MEDICINAL MATERIALS, PREPARATION METHOD, AND APPLICATION THEREOF	2024/01/12
2024/00428	METHOD FOR ANALYZING RCGSTF11 GENE FUNCTION BASED ON GLYCOMETABOLOMICS	2024/01/12

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2024/00429	INTELLIGENT TOURIST GUIDE DEVICE	2024/01/12
2024/00430	EXTRACTION METHOD OF TOTAL FLAVONOIDS FROM CITRUS PEEL	2024/01/12
2024/00433	SPINNING METHOD FOR CHANGING YARN STRUCTURE	2024/01/12
2024/00434	INTERNET OF THINGS-BASED PREDICTION SYSTEM	2024/01/12
2024/00435	CULTIVATION DEVICE FOR THREE-DIMENSIONAL LANDSCAPE DESIGN AND USING METHOD THEREOF	2024/01/12
2024/00436	MULTI-FUNCTIONAL PAPER-BASED MICROFLUIDIC CHIP BASED ON BULK ACOUSTIC WAVE AND PREPARATION METHOD AND APPLICATION THEREOF	2024/01/12
2024/00437	HIGH-EFFICIENCY DIALYSIS DEVICE FOR BLOOD PURIFICATION	2024/01/12
2024/00472	METHOD FOR SYNTHESIZING EFFICIENT SCALE INHIBITOR OF AA-TBAM-AMPS COPOLYMER	2024/01/15
2024/00473	GREEN AND ULTRA-FINE COMPOSITE ADMIXTURE WITH HIGH-PERFORMANCE AND PREPARATION METHOD AND APPLICATION	2024/01/15
2024/00474	IN-SITU REMEDIATION SYSTEM FOR HEAVY METAL CONTAMINATED RIVER AND LAKE SEDIMENTS	2024/01/15
2024/00475	ZERO-DISCHARGE AND HIGH-EFFICIENCY FERMENTATION BED FOR COMBINED RECYCLING OF RAW PIG MANURE AND USING METHOD THEREOF	2024/01/15
2024/00476	COLD PRESSING CASTOR BEAN MEAL BACTERIA AGENT FERMENTED ORGANIC FERTILIZER AT ROOM TEMPERATURE AND ITS PREPARATION METHOD AND APPLICATION	2024/01/15
2024/00477	A SELENIUM-ENRICHED CONCENTRATE SUPPLEMENT FOR MUTTON SHEEP DURING FATTENING PERIOD AND ITS PREPARATION AND USE METHOD	2024/01/15
2024/00478	SOLUBLE ACTIVE HIGH CALCIUM PREPARED FROM SNAIL SHELLS	2024/01/15
2024/00479	CULTIVATION DEVICE CAPABLE OF ACQUIRING COMPLETE ROOTS OF CROP IN SITU	2024/01/15
2024/00480	PORTABLE SEISMIC WAVE EXCITATING DEVICE	2024/01/15
2024/00481	PREPARATION METHOD OF ELECTROCHEMICAL SENSOR FOR DETECTING XANTHINE AND HYPOXANTHINE BASED ON NANOCOMPOSITES	2024/01/15
2024/00482	HEALTH-CARE SPARKLING BEVERAGE CONTAINING POLYGONUM DIVARICATUM L.	2024/01/15

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2024/00484	METHOD FOR DISSOLVING SINGLE-PARTICLE TITANITE AND METHOD FOR DETERMINING AGE OF SINGLE-PARTICLE TITANITE BY (URANIUM-THORIUM)/HELIUM DATING	2024/01/15
2024/00486	HIGH-PRESSURE EXPANDED FEED ADDITIVE FOR RUMINANTS AND PREPARATION METHOD THEREFOR	2024/01/15
2024/00507	MONITORING DEVICE FOR DATABASE SERVERS	2024/01/15
2024/00508	MONITORING DEVICE FOR DATA SECURITY	2024/01/15
2024/00515	DEVICE AND METHOD FOR GENERATING BROADBAND OPTICAL FREQUENCY COMB WITH ADJUSTABLE CENTRAL WAVELENGTH	2024/01/16
2024/00516	POLYURETHANE BUFFER FOR FREIGHT ELEVATOR FOR COLD CHAIN WAREHOUSING, AND DETECTION METHOD THEREFOR	2024/01/16
2024/00517	A GEOLOGICAL EXPLORATION GEOLOGICAL DEPTH MEASURING DEVICE	2024/01/16
2024/00518	DEEP LEARNING-BASED HOME ROBOT FOR THE INTERNET OF THINGS	2024/01/16
2024/00530	A FEED ADDITIVE RICH IN HYDROTHREOSE EXTRACT AND BACILLUS LICHENIFORMIS	2024/01/16
2024/00531	A PLANT PROTECTION ROBOT WITH AUTOMATIC UNIFORM PESTICIDE MIXING FUNCTION	2024/01/16
2024/00546	WIRE DRAWING AND COLOR FIXATION PRODUCTION LINE FOR OUTER SURFACE OF PLASTIC CAP	2024/01/16
2024/00562	METHOD, SYSTEM AND STORABLE MEDIUM FOR PREDICTING AIR CONDITIONING LOAD	2024/01/17
2024/00563	URBAN RAINWATER CATCHMENT DIVISION METHOD	2024/01/17
2024/00564	AN INTELLIGENT MONITORING AND WARNING SYSTEM FOR COAL MINE FIRE	2024/01/17
2024/00570	PARENT PURIFICATION METHOD, FINE CORN SEED AND METHOD OF PRODUCING CORN SEEDS	2024/01/17
2024/00571	TESTING METHOD FOR GROUTING REINFORCEMENT OF HIGHLY PERMEABLE INORGANIC MATERIALS BASED ON SOFT SURROUNDING ROCKS	2024/01/17
2024/00578	COMPARISON METHOD FOR TWO-PARTY QUANTUM SECRET SIZE BASED ON THE TWO-LEVEL BELL STATE	2024/01/17
2024/00609	METHOD FOR PREPARING LIGHT INSULATION BOARD FROM ALUMINUM EXTRACTION RESIDUE OF FLY ASH	2024/01/18
2024/00611	SEEDLING CULTIVATION DEVICE	2024/01/18
2024/00612	INTELLIGENT PICKING DEVICE FOR PLUM	2024/01/18

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2024/00613	STIRRING DEVICE FOR PULPING TANK	2024/01/18
2024/00614	A KIND OF HIGH EFFICIENT MULCHING FILM HOLE FIXING DEVICE FOR AGRICULTURAL PLANTING	2024/01/18
2024/00615	A POTENTIAL METHOD, SYSTEM, DEVICE, AND MEDIUM FOR PREDICTING POTENTIAL DRUG INTERACTIONS	2024/01/18
2024/00618	AN X-RAY IMAGE DETECTION METHOD BASED ON DEEP LEARNING	2024/01/18
2024/00619	LINK PREDICTION METHOD FOR COMPLEX NETWORKS BASED ON LINK VALUE ASSESSMENT	2024/01/18
2024/00620	GRAPH TRANSFORMER-BASED LINK PREDICTION METHOD FOR COMPLEX NETWORKS	2024/01/18
2024/00659	ACTIVE/PASSIVE COOLING SYSTEM	2024/01/18
2024/02323	A LUBRICANT PREPARATION DEVICE AND PREPARATION METHOD	2024/03/22
2024/02467	PHYTOSTEROL-BASED AGRICULTURAL COMPOSITION AND THEIR USE	2024/03/27
2024/02475	THREADED CONTAINER COMPONENTS HAVING FRUSTUM SHAPED SURFACES ENABLING NESTING	2024/03/27
2024/03571	A ROCK BOLT ASSEMBLY AND ASSOCIATED METHOD	2024/05/09
2024/03690	MOUNTAIN LANDSLIDE AND COLLAPSE DISASTER CLASSIFICATION METHOD BASED ON DECISION TREE, AND ELECTRONIC DEVICE	2024/05/13
2024/03949	GENE CHIP, MOLECULAR PROBE COMBINATION, KIT AND APPLICATION FOR ANALYZING SHEEP FAT TAIL	2024/05/21
2024/03950	GENE CHIP, MOLECULAR PROBE COMBINATION, KIT AND APPLICATION FOR ANALYZING MILK PRODUCTION PERFORMANCE OF SHEEP	2024/05/21
2024/03951	GENE CHIP, MOLECULAR PROBE COMBINATION, KIT AND APPLICATION OF SHEEP GERMPLASM RESOURCES IDENTIFICATION AND PEDIGREE RECONSTRUCTION	2024/05/21
2024/04651	CARRIER FOR MANAGING BOOKS IN LIBRARY	2024/06/14
2024/04703	RAIL TEMPERATURE EXPANSION JOINT AND LAYING AND MOUNTING METHOD	2024/06/18
2024/04716	MASK HAVING LV STRUCTURE AND DEVICE THEREOF	2024/06/18
2024/04930	STEERING-SUPPORT SYSTEM FOR MARINE VESSELS	2024/06/24
2024/05045	METHOD FOR CONTROLLING QUALITY OF REHMANNIAE RADIX PRAEPARATA IN	2024/06/27

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	DIHUANG PILLS PRESCRIPTION	
2024/05173	USE OF ANTI-IDIOPATHIC PULMONARY FIBROSIS DRUG NINTEDANIB IN TREATMENT OF TUBERCULOSIS	2024/07/02

DESIGNS

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A2021/01439	PLUG	2021/11/18
A2022/00068	PRESSURE COOKER	2022/01/24
A2022/00111	HAIR DRIERS	2022/02/02
A2022/00259	PET GARMENT	2022/03/14
A2022/00994	CONTAINERS	2022/08/26
A2023/00056	WASHBASIN	2023/01/12
A2023/00057	WASHBASIN	2023/01/12
A2023/00058	WASHBASIN	2023/01/12
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A2023/00427	FAUCET	2023/03/16
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A2023/00469	SPOILERS	2023/04/14
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A2023/00471	SPOILERS	2023/04/14
A2023/00472	SPOILERS	2023/04/14
A2023/00473	FENDERS	2023/04/14
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A2023/00476	SPOILERS	2023/04/14
A2023/00477	SPOILERS	2023/04/14
A2023/00482	Tweezers for Removing Ticks	2023/04/17
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A2023/00657	EGG CARTONS	2023/06/02
A2023/00658	EGG CARTON	2023/06/02
A2023/00659	EGG CARTON	2023/06/02
A2023/00690	BOTTLES	2023/06/13

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A2023/00962	HAIR TRIMMER	2023/09/04
A2023/00964	PAPER TISSUE	2023/09/04
A2023/00987	DISPENSER	2023/09/08
A2023/01016	SERVING TRAY	2023/09/20
A2023/01072	PIPE ELEMENT	2023/10/02
A2023/01073	CARS	2023/10/03
A2023/01081	SOLAR ENERGY COLLECTOR	2023/10/05
A2023/01089	Construction members	2023/10/06
A2023/01091	HAND MIXER	2023/10/09
A2023/01092	BEAKER	2023/10/09
A2023/01093	BEAKER	2023/10/09
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A2023/01097	FOOTWEAR	2023/10/10
A2023/01098	FOOTWEAR	2023/10/10
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A2023/01118	Bottle Crate	2023/10/13
A2023/01122	MOTOR VEHICLES	2023/10/17
A2023/01128	A CONTAINERISED ABLUTION FACILITY	2023/10/19
A2023/01129	Container	2023/10/20
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A2023/01133	CONTROLLER WITH DISPLAY SCREEN	2023/10/23
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A2023/01146	Diving Masks	2023/10/25
A2023/01149	Car	2023/10/25
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A2023/01157	LID FOR SURGICAL BUR KIT HOLDER	2023/10/27
A2023/01159	NICOTINE POUCH	2023/10/27
A2023/01160	NICOTINE POUCH	2023/10/27
A2023/01161	NICOTINE POUCH	2023/10/27
A2023/01162	NICOTINE POUCH	2023/10/27
A2023/01163	NICOTINE POUCH	2023/10/27
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A2023/01167	NICOTINE POUCH WITH INTERIOR CAPSULE	2023/10/27
A2023/01168	NICOTINE POUCH WITH INTERIOR	2023/10/27

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	CAPSULE	
A2023/01169	WATCHES	2023/10/27
A2023/01177	REEL HOUSING FOR A HOSE OR CABLE	2023/10/30
A2023/01184	Holders for Soap Bars	2023/10/31
A2023/01186	COFFEE MACHINE	2023/10/31
A2023/01187	COFFEE MACHINE FILTER	2023/10/31
A2023/01203	A TENT	2023/11/07
A2023/01204	A TENT	2023/11/07
A2023/01205	A TENT	2023/11/07
A2023/01220	CANOPY FOR A BAKKIE	2023/11/10
A2023/01276	TOILET PAPER HOLDER	2023/11/24
A2023/01277	TOILET PAPER HOLDER	2023/11/24
A2023/01278	STICK CONSUMABLES/TOBACCO BOX AND ARRANGEMENT OF STICK CONSUMABLES/TOBACCO IN BOX	2023/11/24
A2023/01279	STICK CONSUMABLES/TOBACCO BOX AND ARRANGEMENT OF STICK CONSUMABLES/TOBACCO IN BOX	2023/11/24
A2023/01298	A ROOF MEMBRANE	2023/11/30
A2023/01360	ELECTRONIC ATOMIZATION DEVICE	2023/12/08
A2023/01455	MONITORING DEVICE	2023/12/20
A2023/01457	MONITORING DEVICE	2023/12/20
A2024/00531	TOUCH SCREENS	2024/06/06
A2024/00532	TOUCH SCREENS	2024/06/06
F2021/01025	A BODY OF A JUNCTION BOX	2021/09/03
F2021/01026	A CONNECTOR FOR A JUNCTION BOX	2021/09/03
F2022/00247	KNEE GUARD	2022/03/11
F2022/00249	KNEE GUARD	2022/03/11
F2023/00986	DISPENSER	2023/09/08
F2023/01029	CONTAINER AND STAND	2023/09/22
F2023/01032	A BLANK FOR A TRAY FOR FOOD PACKAGING	2023/09/26
F2023/01060	PIPE ELEMENT	2023/10/02
F2023/01061	PIPE ELEMENT	2023/10/02
F2023/01062	PIPE ELEMENT	2023/10/02
F2023/01063	PIPE ELEMENT	2023/10/02
F2023/01064	PIPE ELEMENT	2023/10/02
F2023/01090	Construction members	2023/10/06
F2023/01110	Trims for Flooring or Carpeting	2023/10/13
F2023/01115	M430 ROOF SHEET CLAMP FOR MOUNTING SOLAR PANELS	2023/10/13
F2023/01116	L-BRACKET FOR MOUNTING SOLAR PANEL RAILS ON ROOFS	2023/10/13
F2023/01117	SLOTTED WASHER FOR BRACKETS AND RAILS FOR MOUNTING SOLAR PANEL RAILS ON ROOFS	2023/10/13

Application Number	Design Articles	Filing Date
F2023/01131	TOOL BODY	2023/10/23
F2023/01141	GASBOTTLE OPENER	2023/10/25
F2023/01147	Diving Masks	2023/10/25
F2023/01148	DIVING MASKS	2023/10/25
F2023/01158	BASE FOR SURGICAL BUR KIT HOLDER	2023/10/27
F2023/01191	A STORAGE BOX	2023/11/01
F2023/01227	INTER-SURGICAL SCREW CONNECTING ROD	2023/11/15
F2023/01421	BAND HEATER AND INSULATOR	2023/12/14
F2023/01422	INSULATOR FOR A BAND HEATER	2023/12/14
F2023/01423	BAND HEATER AND INSULATOR	2023/12/14
F2023/01424	INSULATOR FOR A BAND HEATER	2023/12/14
F2023/01454	PRINTED CIRCUIT BOARD	2023/12/20
F2023/01456	MONITORING DEVICE	2023/12/20
F2023/01458	MONITORING DEVICE	2023/12/20
F2024/00435	SQUARE GLASS SPIGOT	2024/05/08