



Australian Government

IP Australia

AUSTRALIAN OFFICIAL JOURNAL

OF

PATENTS

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General Information

*For Information on the following please see our website www.ipaustralia.gov.au
or contact our Customer Service Network on 1300651010*

Editorial enquiries

Contact information

Freedom of Information ACT

Professional Standards Board

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Requests for Information under Section 194 (c)

Country Codes

Trade Mark and Designs Hearing Sessions

INID (Internationally agreed Numbers for the Identification of Data)

GUIDE TO THE USE OF THIS JOURNAL

The Australian Official Journal of Patents (AOJP) reports all major events and actions which take place during the life cycle of an Australian patent and provides certain details of these actions as they relate to the patent or patent application involved. This guide sets out to teach the reader how to use the journal to access this information.

While there are many possible actions in the life of a patent, the majority of actions reported relate to the following events, which are the main stages in the progression of a patent application to a granted patent:

(i) FILING -

This is the act of making an application. When the application is first filed certain details are published.

(ii) OPEN-TO-PUBLIC-INSPECTION (OPI) -

Approximately 18 months after first filing of an Australian or a corresponding foreign application, certain application documents, including the complete specification, become available to the public (Open-to-Public-Inspection or "OPI"). Relevant application details are published.

(iii) ACCEPTANCE –

This is the Commissioner's acceptance of a patent application. Once the Commissioner has accepted a patent application, certain details of the application are published in the AOJP. Notice of opposition may be filed within three months of advertisement of acceptance.

(iv) OPPOSITION –

If an opposition action is commenced against the grant of the patent, the application number and the name of the opponent are published. If the opposition is to the Certification of an Innovation Patent, the patent number and the name of the opponent are published.

(v) GRANTING –

Most accepted applications are not opposed. These proceed to grant and become granted patents. Of the few that are opposed (less than 1%) most of these, after resolution of the opposition, proceed to grant and become granted patents. Granted patents are simply listed in order of their patent number.

(vi) CERTIFICATION

This is the Commissioner's Certification after passing examination of a previously granted unexamined Innovation Patent.

In addition to the actions related to these stages, other actions reported include: assignments, lapsing or withdrawal of applications and ceasing or expiry of patents, voluntary amendments, extensions of time for certain actions and registration of licences.

How To Identify Information Using "INID" Numbers

Patents are published in many different countries and in many different languages. As a result, finding the information that you want (eg the filing date) on a patent document or in a journal can be quite difficult. There is an international system operating, which codifies this information in an unambiguous way, by assigning a specific number to each piece of information about the history of a patent. These numbers are called the **Internationally agreed Numbers for the Identification of Data** or INID numbers.

These numbers appear on all published patents and abstracts and are used throughout this journal to identify particular items of information. For example, the date on which a document is filed has the INID number (22), while the name of the applicant has the INID number of (71). These numbers are always expressed in parentheses and always immediately precede the information to which they relate. For example:

(22) 12.10.91

means that the filing date of the document which contains this reference is 12 October 1991. Learning the INID numbers for the information you want will help you find it quickly and easily. A complete list of the INID numbers and the items to which they relate is provided at the end of this Guide.

How Australian Patent Documents are Numbered

When searching information or ordering documents it is vital that you understand the numbering system.

Document Numbering in the **Australian Official Journal of Patents from 10th March 2018** All

patents, patent applications and provisional applications are assigned a "10" digit number.

- The first 4 digits identify the year of filing; and
- The fifth digit identifies the type of patent. Numerals; "0", "2", or "3" are allocated to standard complete applications and patents (including petty patents); "1" is allocated to innovation applications and patents; and "9" is allocated to provisional applications.

See Examples:

2011236254 and 2000023658 (Standard Complete)

2011158589 (Innovation Complete)

2011902365 (Provisional)

NOTE: Please refer to previous journal publications for numbering formats used prior to 10th March 2018.

Different prefixes will be associated to the application/patent at different stages of its life. This prefix indicates whether the application has been accepted.

A document corresponding to an unaccepted application has the prefix, AU-A; eg AU-A-2002200234. A document corresponding to an accepted application carries the prefix AU-B; eg AU-B-2002200234.

Users need to be aware that an accepted document may differ from the corresponding unaccepted document. This is because amendment may occur between first publication (OPI) and second publication (acceptance).

NOTE: When ordering any patent document from us, whether accepted or not, please quote the application/patent number preceded by the appropriate prefix.

Arrangement of Information in the Journal

For each of the categories

(i) Provisional Applications Filed, (ii)

Complete Applications Filed, (iii)

Applications Open to Public Inspection

(iv) Applications Accepted, and (v)

Innovation Patent Certified.

The Journal lists the information published in that category in an alphabetical Name Index list based on the name of the applicant. These indices are useful if you wish to find information about applications made by a particular applicant.

In addition to the Name Index there is provided, for each of these categories, a Numerical Index. This index lists the applications either in order of their Application Numbers, in the case of complete applications filed and applications OPI, or in order of their Document Number in the case of accepted applications. It provides, for each number, the name of the applicant. These indices are useful if you wish to track the progress of a particular patent application.

There are also IPC Indices provided for applications which are OPI and for applications which have been accepted. IPC stands for International Patent Classification. Each IPC "mark" is an alpha-numerical representation of a particular area of technology. These indices are in order of IPC mark, and within each mark provide either the application numbers of the application which are now OPI or the numbers of the cases now accepted. These indices are useful if you wish to check on patent activity in a particular technology.

Using the Indices To Find Patent Information if You Know the Name of the Applicant.

Use the Name Indices. They will give you the following information identified by their INID number:

<u>ITEM</u>	<u>INID</u> <u>No.</u>	<u>ITEM</u>	<u>INID</u> <u>No.</u>
A) Provisional applications filed - Name Index		B) Complete application filed - Name Index	
The <u>name</u> of the applicant	(71)	The <u>name</u> of the applicant	(71)
The Provisional application <u>number</u>	(21)	The <u>number</u> assigned to the application	(21)
The <u>date</u> of filing	(22)	The <u>date</u> of filing	(22)
The <u>title</u> of the invention	(54)	<u>Title</u> of the invention	(54)
		<u>Number</u> of priority document(s) if any	(31)
		<u>Date(s)</u> of filing of priority documents	(32)
		<u>Country</u> of which priority documents filed	(33)
		PCT application <u>number</u>	(86)

<u>ITEM</u>	<u>INID</u> <u>No.</u>	<u>ITEM</u>	<u>INID</u> <u>No.</u>
C) Applications open to public inspection Name Index		D) Applications accepted - Name Index	
The <u>name</u> of the applicant	(71)	The <u>name</u> of the applicant	(71)
The <u>number</u> of the document	(11)	The <u>number</u> of the document	(11)
The <u>number</u> assigned to the application	(21)	The <u>number</u> of the accepted document	(10)
The <u>date</u> of filing	(22)	The <u>number</u> assigned to the application	(21)
The <u>title</u>	(54)	The <u>date</u> of filing	(22)
The <u>classification marks</u>	(51)	The <u>title</u>	(54)
Priority document <u>number(s)</u>	(31)	The <u>classification marks</u>	(51)
<u>Date</u> of filing of priority document(s)	(32)	PCT publication <u>number</u>	(87)
<u>Country</u> in which priority document filed	(33)	Priority document <u>number</u>	(31)
Publication <u>date</u> of unexamined document	(43)	<u>Date</u> of filing of priority document(s)	(32)
Inventors names if known	(72)	<u>Country</u> in which priority document filed	(33)
<u>Patent Attorneys</u>	(74)	Publication <u>date</u> of unexamined document	(43)

<u>ITEM</u>	<u>INID</u> <u>No.</u>
E) Patents Certified – Name Index	
The <u>name</u> of the applicant	(71)
The <u>number</u> of the accepted document	(10)
The <u>number</u> assigned to the application	(21)
The <u>date</u> of filing	(22)
The <u>title</u>	(54)
The <u>classification marks</u>	(51)
Priority document <u>number</u>	(31)
<u>Date</u> of filing of priority document(s)	(32)
<u>Country</u> in which priority document filed	(33)
Publication <u>date</u> of granted patent	(45)
<u>Inventors names</u>	(72)
<u>Patent Attorneys</u>	(74)
Related by division	(62)

You will notice at each stage of following application through that all applications are in alphabetical order of **Applicant**, not inventor.

1. To Find Information About a Patent Application if You Know its Number.

Use the appropriate numerical index. This will give you the name of the applicant from the number. You will then need to use the appropriate Name Index as above to find out other information about the Patent Application you are interested in.

The following Numerical Indices are available:

- A) **Provisional** Applications filed.
- B) **Complete** Applications filed.
- C) Innovation Applications filed.
- D) Applications **Open to Public Inspection**.
- E) Applications **Accepted**.
- F) Innovation Patent Certified

3. To Find Information About Patent Documents in the Area of Technology in which You are Interested if You Know the International Patent Classification Mark for that Area.

All patent applications are classified according to their subject matter using the International Patent Classification (IPC). Although the system is very detailed and covers all technologies, knowledge of the IPC marks of the technologies you are interested in will allow you to find patent documents in these technologies quite easily. To identify the IPC marks of technologies you are interested in, you can inspect relevant documentation in any of AIPO's state offices.

The indices to use are

- A) Applications **OPI** - IPC Index
- B) Applications **accepted** - IPC Index.

These indices give you the numbers of the applications which are either OPI or Accepted and are listed in order of their IPC marks.

Once you have the numbers of the documents that interest you, consult the relevant Number Index (see 2. above) to find the applicant's name, and then the Name Index (see 1. above) to find out the details of that application.

'INID' NUMBERS in use on Australian Patent Documents

'INID' is an acronym for 'Internationally agreed Numbers for the Identification of Data'.

(10) Document identification

- (11) Number of the document
- (12) Plain language designation of the kind of document
- (19) WIPO country code, or other identification, of the country publishing the document.

(20) Document filing data

- (21) Number(s) assigned to the application(s).
- (22) Date(s) of filing application(s)
- (23) Other date(s) of filing, including exhibition filing date and date of filing complete specification following provisional specification.
- (24) Date from which industrial property rights may have effect.

(30) Priority data

- (31) Number(s) assigned to priority application(s)
- (32) Date(s) of filing priority application(s)
- (33) Country (countries) in which the priority application(s) was (were) filed.

(40) Date(s) of making available to the public

- (43) Date of publication by printing or similar process of an unexamined document, on which no grant has taken place on or before the said date.

- (43) Date of publication by printing or similar process of an examined document, on which no grant has taken place on or before the said date.
- (44) Date of publication by printing or similar process of a document, on which grant, or certification has taken place on or before the said date.

(50) Technical Information

- (51) International Patent Classification
- (52) Domestic or national classification
- (54) Title of invention
- (56) List of prior art documents, if separate from descriptive text
- (57) Abstract or claim

(60) Reference(s) to other legally related domestic document(s)

- (60) Related by cognate(s).
- (61) Related by addition(s).
- (62) Related by division(s).

(70) Identification of parties concerned with the document

- (71) Name(s) of applicant(s)
- (72) Name(s) of inventor(s) if known to be such
- (74) Name(s) of attorney(s) or agent(s)
- (75) Name(s) of inventor(s) who is (are) also applicant(s)

(80) Identification of data related to International Conventions other than the Paris Convention

- (86) PCT Application Number
- (87) PCT Publication Number

NOTE

- (1) Australian patent documents published on or after 26 October 1978 should be referred to by the application number preceded by the prefix AU-A or AU-B.

AU-A = Pre-examination

AU-B = Post-examination

- (2) The classification used is the International Patent Classification and is identified by the INID code (51). Further editions of the classification are identified as (51)₂, (51)₃, (51)₄ and (51)₅.
- (3) INID code 74 provides for the name of the patent attorney, or firm of attorneys, prosecuting an application.
- (4) There is a gap in volume numbering of the Australian Official Journal of Patents. The volumes are:
- 1987-2022 Volume 1 - 36
 - 2023 - Volume 57 -

IP AUSTRALIA

AUSTRALIAN PATENT OFFICE

CQMS Pty Ltd v Sandvik Intellectual Property AB [2025] APO 1

Patent Application:	2016430503
Title:	Attachment status monitoring of ground engaging tools (GET) at heavy machinery
Patent Applicant:	Sandvik Intellectual Property AB
Opponent:	CQMS Pty Ltd
Delegate:	Pradnya Satarkar
Decision Date:	28 January 2025
Hearing Date:	29 October 2024, via videoconference
Catchwords:	PATENTS - opposition to the grant of the patent under s59 – construction – inventive step – utility – support – clear enough and complete enough disclosure – best method known to the applicant – opposition successful on the ground of inventive step – costs awarded – applicant given opportunity to amend
Representation:	Counsel for the applicant: Mr Marcus Fleming Patent attorney for the applicant: Mr Chris Schlicht and Mr Peter Wassouf of Phillips Ormonde Fitzpatrick Counsel for the opponent: Mr Peter Creighton-Selvay Patent attorney for the opponent: Dr Andrew Scott of James & Wells

Proceedings under the Patents Act 1990

Provisional Applications Filed

Name Index

Applications listed below were processed through the Patent Office Canberra during the period ending 21 Jan 2025 .

(71) A.A.T. Advanced Aquarium Technologies Pty Ltd; AAT Advanced Aquarium Technologies (HK1) Ltd. (21) 2025900153 (22) 20.01.2025 (54) A Craft for Controlling Underwater Vegetation and/or Biofouling and a Method of Controlling Underwater Vegetation and/or Biofouling	(71) Australian Mines Limited (21) 2025900190 (22) 24.01.2025 (54) Method of Alloy Synthesis	Cairo, N. see Cairo, A. (21) 2025900211
AAT Advanced Aquarium Technologies (HK1) Ltd. see A.A.T. Advanced Aquarium Technologies Pty Ltd (21) 2025900153	(71) Australian Mines Limited (21) 2025900191 (22) 24.01.2025 (54) Magnesium Composite and Method of Synthesis Thereof	(71) Cairo, A.; Cairo, N. (21) 2025900211 (22) 27.01.2025 (54) Method for Real-Time Medical Diagnosis and Guidance Using Artificial Intelligence
(71) Active Anchors Pty Limited (21) 2025900195 (22) 24.01.2025 (54) A Resilient Marine Anchor	(71) b.box for kids developments Pty Ltd (21) 2025900196 (22) 24.01.2025 (54) A Load-Bearing Cord or Strap	(71) CellHeal Pty Ltd (21) 2025900218 (22) 28.01.2025 (54) Cell culture compositions
(71) ALL TABLE SPORTS AUSTRALIA PTY LTD (21) 2025900223 (22) 28.01.2025 (54) CORNHOLE BOARD	(71) BARBER, J. (21) 2025900205 (22) 26.01.2025 (54) Unobtrusive helmet sightline display apparatus and system	(71) ChemCentre (21) 2025900156 (22) 20.01.2025 (54) Characterisation of Taxonomically Informative Peptides
(71) Andon Technology Pty Ltd (21) 2025900127 (22) 16.01.2025 (54) Electronic Toy and Game Network	(71) Bayat, A. (21) 2025900208 (22) 26.01.2025 (54) Privacy Aware Data Aggregation with Application in Voting Systems	(71) Clarity Pharmaceuticals Ltd (21) 2025900189 (22) 24.01.2025 (54) Combination cancer therapy
ANDREW MUSCROFT-TAYLOR see LEAFT FOODS IP LIMITED (21) 2025900168	(71) Blue Cube Technology (Pty) Ltd (21) 2025900221 (22) 28.01.2025 (54) CUTTER	(71) Coleman, A. (21) 2025900203 (22) 25.01.2025 (54) Advanced Omnidirectional Solar Energy Collection System
ANNE GORDON see LEAFT FOODS IP LIMITED (21) 2025900168	(71) BPBL HOLDINGS PTY LTD (21) 2025900115 (22) 15.01.2025 (54) Multifaceted handheld tool for shucking oysters and other prising manoeuvres (herein referred to as the PBL Multitool)	(71) Collins, M. (21) 2025900173 (22) 22.01.2025 (54) BOTANICAL WATER AIR VENTS Vents Water and Air Directly to the Roots of the Plants, for Healthier Plant Growth and Yield Maximise Water Usage, Reduce Run off and Evaporation Dedicated to Saving Water through irrigation
(71) Attey, G. (21) 2025900117 (22) 15.01.2025 (54) Rail Grooves for Surfboards	Bulugudu Limited see The University of Queensland (21) 2025900181	(71) Crews, T. (21) 2025900217 (22) 28.01.2025 (54) Integrated System for Real-Time Health Monitoring and Therapy Using Radar Ballistocardiography, Vagus Nerve Monitoring, and Photobiomodulation
	Bulugudu Limited of Dugalunji Camp see The University of Queensland (21) 2025900180	

Provisional Applications Filed - Name Index cont'd

(71) D&S RESOURCES PROPRIETARY LIMITED
(21) 2025900193 (22) 24.01.2025
(54) SUBMERSIBLE PUMP INSTALLATION UNIT (SPIU)

(71) D&T Future Enterprises Pty Ltd
(21) 2025900155 (22) 20.01.2025
(54) DEVICE FOR FORMING WEEP HOLES

(71) Flinders University
(21) 2025900199 (22) 24.01.2025
(54) NEW METHODS OF SULFUR METATHESIS

(71) Gane Energy & Resources Pty Ltd
(21) 2025900114 (22) 15.01.2025
(54) PROCESSES AND SYSTEMS FOR PRODUCING FUELS FROM A FEED FUEL

(71) Gas Safe Valve Pty Ltd
(21) 2025900170 (22) 22.01.2025
(54) METHOD OF GAS DRAINAGE IN A COAL MINE, GENERAL METHOD OF METHANE GAS DRAINAGE AND VARIABLE FLOW CONTROL VALVE

(71) GLYDEIT IP PTY LTD
(21) 2025900141 (22) 17.01.2025
(54) DEPLOYMENT DEVICE FOR AN INSERTABLE AND METHODS OF USE

(71) GONSALVEZ, C.
(21) 2025900210 (22) 27.01.2025
(54) Toilet Sanitation Implements

(71) Grand Viale Pty Ltd
(21) 2025900159 (22) 20.01.2025
(54) Display for memorabilia

(71) HANSEN, M.
(21) 2025900212 (22) 27.01.2025
(54) A CRANE ASSEMBLY

(71) Hatch, M.
(21) 2025900207 (22) 26.01.2025
(54) Brattice Support for Underground Mining Applications

(71) Hou, X.
(21) 2025900184 (22) 23.01.2025
(54) Molecular Recognition-Based Chitosan Nanoparticles for Drug and Gene Delivery and Its Applications

(71) Hurst, M.; Muggeridge, K.
(21) 2025900216 (22) 28.01.2025
(54) A foilboard

(71) Ideal-Scope Pty Ltd
(21) 2025900192 (22) 24.01.2025
(54) Gemstone and jewellery inspection device

(71) Iron Grip Holdings Pty Limited
(21) 2025900194 (22) 24.01.2025
(54) Agricultural opener assembly and method of manufacture

(71) jaggard, s.
(21) 2025900214 (22) 28.01.2025
(54) Rotating Thermal Energy System for Phase-Change Power Generation

(71) Kapoor, S.
(21) 2025900171 (22) 22.01.2025
(54) A protocol for one password

(71) KC8 CAPTURE TECHNOLOGIES LTD
(21) 2025900175 (22) 23.01.2025
(54) A PROCESS AND PLANT

(71) Kingsley, R.
(21) 2025900122 (22) 15.01.2025
(54) Hugs for Warmth and Survival.

(71) Landio Pty Ltd
(21) 2025900219 (22) 28.01.2025
(54) Cold Therapy Integration for Showers

(71) LEAFT FOODS IP LIMITED; PAIGE HANSEN; ANNE GORDON; ROSS MILNE; RAQUEL SALVADOR GALLEGU; ANDREW MUSCROFT-TAYLOR
(21) 2025900168 (22) 21.01.2025
(54) PLANT-BASED MILK PRODUCTS HAVING FOAMING CAPABILITY

(71) Macquarie University
(21) 2025900185 (22) 24.01.2025
(54) AN APPARATUS AND METHOD OF OPTICALLY SORTING NANOPARTICLES

(71) Marenav Pty Ltd
(21) 2025900139 (22) 17.01.2025
(54) Fan coil assembly

(71) Morehouse, D.J.
(21) 2025900172 (22) 22.01.2025
(54) Adjustable packing shim for installation of construction materials

(71) MORSE MICRO PTY. LTD.
(21) 2025900213 (22) 28.01.2025
(54) Built-in Synchronizer Clock Gating for Low Power Consumption

Muggeridge, K. see Hurst, M.
(21) 2025900216

(71) Online Capital Holdings
(21) 2025900201 (22) 24.01.2025
(54) Methods for detecting and monitoring cancer

(71) Pad Pro Holdings Pty Ltd
(21) 2025900220 (22) 28.01.2025
(54) Tank Support

PAIGE HANSEN see LEAFT FOODS IP LIMITED
(21) 2025900168

(71) Peak Medical Pty Ltd
(21) 2025900209 (22) 26.01.2025
(54) Orthopaedic Exercise Monitoring and Coaching System with Real-Time Qualitative and Quantitative Analysis.

(71) Perrett, G.
(21) 2025900188 (22) 24.01.2025
(54) Dual Use Road Signs

(71) prajapati, v.
(21) 2025900197 (22) 24.01.2025
(54) Wearable Digital Advertising System and Method for Mobile Outdoor Marketing

(71) PRECISION METALS QUEANBEYAN PTY LTD
(21) 2025900186 (22) 24.01.2025
(54) DATA CENTRE CONSTRUCTION SYSTEM AND METHOD

(71) Psylo Pty Ltd
(21) 2025900198 (22) 24.01.2025
(54) Compounds

RAQUEL SALVADOR GALLEGU see LEAFT FOODS IP LIMITED
(21) 2025900168

(71) Richard, M.
(21) 2025900206 (22) 26.01.2025
(54) Pulse sensor headphones

Provisional Applications Filed - Name Index cont'd

(71) Richardson, R.
(21) 2025900143 (22) 17.01.2025
(54) Method for combining closed and non-closed biometric validation systems for identification

(71) Romai Group Pty Ltd
(21) 2025900222 (22) 28.01.2025
(54) METHOD AND APPARATUS FOR INGESTIBLE ENCODED PARTICLES USED FOR IDENTIFICATION, CODING AND TAGGING DRUGS

ROSS MILNE see LEAFT FOODS IP LIMITED
(21) 2025900168

(71) Sack, A.
(21) 2025900179 (22) 23.01.2025
(54) Systems, methods and apparatus for infant monitoring and temperature-based sleepwear guide

(71) Scolaro, A.
(21) 2025900169 (22) 21.01.2025
(54) A Power Drive

(71) Shan, M.
(21) 2025900183 (22) 23.01.2025
(54) Waterproof Socket

(71) Silver Knot Agency; Smith, G.
(21) 2025900176 (22) 23.01.2025
(54) Sealed Electromagnetic Energy Transfer System with Fusion Integration for Sustainable Energy Generation

(71) SIX ZERO PICKLEBALL PTY LTD
(21) 2025900215 (22) 28.01.2025
(54) Pickleball Paddle with Improved Core

Smith, G. see Silver Knot Agency
(21) 2025900176

(71) Spira Health Pty Ltd
(21) 2025900187 (22) 24.01.2025
(54) Respiratory training device

(71) The trustee for Great Harbour Trading Trust
(21) 2025900204 (22) 25.01.2025
(54) Compressed air and liquid air engine

(71) The University of Queensland; Bulugudu Limited of Dugalunji Camp
(21) 2025900180 (22) 23.01.2025
(54) SWELLABLE COMPOSITE, PRE-CURSOR COMPOSITION, AND USES OF SAME

(71) The University of Queensland; Bulugudu Limited
(21) 2025900181 (22) 23.01.2025
(54) SWELLABLE COMPOSITE, PRE-CURSOR COMPOSITION, AND USES OF SAME

(71) The University of Sydney
(21) 2025900174 (22) 22.01.2025
(54) Linear MAP Decoding of Convolutional Codes

(71) The University of Sydney
(21) 2025900178 (22) 23.01.2025
(54) Block copolymers

(71) Total Marine Technology Pty Ltd
(21) 2025900182 (22) 23.01.2025
(54) Continuously variable stroke subsea valve lockout tool

(71) TR3ND PTY LTD
(21) 2025900125 (22) 16.01.2025
(54) A SYSTEM AND METHOD FOR GENERATING A CLIENT RATING

(71) Treeby, M.
(21) 2025900131 (22) 17.01.2025
(54) Rig Equipotential Earth Bonding Confirmation System Documentation Manual - Rig R&D

(71) University of Tasmania
(21) 2025900124 (22) 16.01.2025
(54) FOR POROUS ORGANOSILICON POLYMERS

(71) Veganic SKN PTY LTD
(21) 2025900177 (22) 23.01.2025
(54) SPF-Enhanced Dual-Action Post-Athletic Recovery Gel: Integrating UV Protection with Muscular and Dermal Restoration

(71) VENT Systems Pty Ltd
(21) 2025900202 (22) 25.01.2025
(54) Roof ventilation and ember guard assembly and arrangement

(71) Visy R & D Pty Ltd
(21) 2025900112 (22) 15.01.2025
(54) A Blank For A Spoilage Retarding Box

(71) Vow Group Pty Ltd
(21) 2025900200 (22) 24.01.2025
(54) Palatable compositions

(71) White, T.
(21) 2025900151 (22) 20.01.2025
(54) FIL: LISTENING, COLLABORATING, TRANSFORMING

(71) Williams, B.
(21) 2025900149 (22) 20.01.2025
(54) Personal Transportation Vehicle

(71) Young, J.
(21) 2025900157 (22) 20.01.2025
(54) METHODS, SYSTEMS, AND DEVICES FOR CREATION, DISTRIBUTION, AND USE OF INTERACTIVE CONTENT

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2025900180	The University of Queensland; Bulugudu Limited of Dugalunji Camp		
2025900181	The University of Queensland; Bulugudu Limited		
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2025900212	HANSEN, M.		

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Applications listed below were processed through the Patent Office Canberra during the period ending 21 Jan 2025 .

- . (*) Title not in Roman characters
- . (**) Title not given

(71) Abbott Diabetes Care Inc.
(21) 2025200491 (22) 24.01.2025
(54) Analyte sensors and sensing methods for detecting inhibitors of diaphorase

(71) Abiomed, Inc.
(21) 2025200481 (22) 24.01.2025
(54) Expandable introducer sheath for medical device

(71) AC Industries Nominees Pty Ltd
(21) 2025200354 (22) 17.01.2025
(54) In-line device for tensioning wire

(71) Adobe Inc.
(21) 2025200534 (22) 27.01.2025
(54) VECTORIZING DIGITAL IMAGES WITH SUB-PIXEL ACCURACY USING DYNAMIC UPSCALING

(71) Adobe Inc.
(21) 2025200538 (22) 28.01.2025
(54) GENERATING SYNTHETIC DIGITAL IMAGES UTILIZING A TEXT-TO-IMAGE GENERATION NEURAL NETWORK WITH LOCALIZED CONSTRAINTS

(71) Aelix Therapeutics S.L.; Gilead Sciences, Inc.
(21) 2025200420 (22) 22.01.2025
(54) Combination of a TLR7 modulating compound and an HIV vaccine

(71) Albert Einstein College of Medicine
(21) 2025200403 (22) 21.01.2025
(54) Compositions for blood storage and transfusions

(71) Alexion Pharmaceuticals, Inc.
(21) 2025200303 (22) 16.01.2025
(54) Polypeptides that bind complement component c5 or serum albumin and fusion proteins thereof

(71) Alexion Pharmaceuticals, Inc.
(21) 2025200313 (22) 16.01.2025
(54) Polypeptides that bind complement component c5 or serum albumin and fusion proteins thereof

(71) Alpine Immune Sciences, Inc.
(21) 2025200430 (22) 22.01.2025
(54) APRIL and BAFF inhibitory immunomodulatory proteins and methods of use thereof

(71) Angel Group Co., Ltd.
(21) 2025200301 (22) 16.01.2025
(54) Management System

(71) Angel Group Co., Ltd.
(21) 2025200325 (22) 16.01.2025
(54) Game management system

(71) Angel Group Co., Ltd.
(21) 2025200330 (22) 16.01.2025
(54) Game management system

(71) Angel Group Co., Ltd.
(21) 2025200498 (22) 24.01.2025
(54) Inspection system, inspecting device, and gaming chip

(71) Anker Innovations Technology Co., Ltd.
(21) 2025200468 (22) 23.01.2025
(54) Photovoltaic system and method for operating same

(71) Apple Inc.
(21) 2025200348 (22) 17.01.2025
(54) User interfaces for watches

(71) Aristocrat Technologies Australia Pty Limited
(21) 2025200500 (22) 24.01.2025
(54) GAMING MACHINE AND METHOD FOR EVALUATING PLAYER REACTIONS

(71) Aristocrat Technologies Australia Pty Limited
(21) 2025200501 (22) 24.01.2025
(54) GAMING MACHINE AND METHOD FOR DISPLAYING A FREE SPIN COUNT-UP

(71) ASSA ABLOY AB
(21) 2025200540 (22) 28.01.2025
(54) Secure element arrays in internet-of-things systems

Baxalta GmbH see Baxalta Incorporated
(21) 2025200285

(71) Baxalta Incorporated; Baxalta GmbH
(21) 2025200285 (22) 15.01.2025
(54) Viral vectors encoding recombinant FVIII variants with increased expression for gene therapy of hemophilia A

(71) Beijing HyperStrong Technology Co., Ltd.
(21) 2025200427 (22) 22.01.2025
(54) CELL SAFETY PREDICTION METHOD, APPARATUS, DEVICE, AND MEDIUM

(71) Beijing LongRuan Technologies, Inc.; Peking University
(21) 2025200471 (22) 23.01.2025
(54) Mutually Generative Artificial Intelligence System Based On Multi-Dimensional Spatiotemporal Information Vector Graphics

(71) Berlin, M.S.
(21) 2025200364 (22) 17.01.2025
(54) Methods and systems for OCT guided glaucoma surgery

(71) Biolyph, LLC
(21) 2025200415 (22) 22.01.2025
(54) REAGENT STORAGE DEVICES AND METHODS FOR SAME

(71) BioNTech SE
(21) 2025200483 (22) 24.01.2025
(54) CORONAVIRUS VACCINE

(71) Blackhawk Network, Inc.
(21) 2025200443 (22) 23.01.2025
(54) System for packaging, processing, and activating a bundled greeting and gift card

(71) BMT Limited
(21) 2025200451 (22) 23.01.2025
(54) Display System

(71) Boardman, L.
(21) 2025200550 (22) 28.01.2025

Complete Applications Filed - Name Index cont'd

(54) Non-Hazardous, Eco-Friendly, High-Performance Fishing Jig Heads

(71) Boreal Technology & Investment S.L.
(21) 2025200414 (22) 22.01.2025
(54) Wearable Gaming Device and Method Thereof

(71) Boston Scientific Scimed, Inc.
(21) 2025200549 (22) 28.01.2025
(54) Inflatable penile prosthesis comprising a pump assembly and manufacturing method

(71) Bristol-Myers Squibb Company
(21) 2025200288 (22) 15.01.2025
(54) TREATMENT OF LAG-3 POSITIVE TUMORS

(71) BRISTOL-MYERS SQUIBB COMPANY
(21) 2025200355 (22) 17.01.2025
(54) ANTAGONISTIC CD40 MONOCLONAL ANTIBODIES AND USES THEREOF

(71) Britax Childcare Pty Ltd
(21) 2025200431 (22) 22.01.2025
(54) AN INSERT FOR A CHILD SAFETY SEAT

(71) brown, J.
(21) 2025200379 (22) 19.01.2025
(54) Residential Housing System for Modular Construction

(71) Bruin Biometrics, LLC
(21) 2025200344 (22) 17.01.2025
(54) Providing a continuity of care across multiple care settings

(71) Bushwakka Pty Ltd
(21) 2025200559 (22) 28.01.2025
(54) ROOFTOP TENT

(71) Caddix, Inc.
(21) 2025200524 (22) 24.01.2025
(54) DEFLECTABLE CLEAT SYSTEM FOR FOOTWEAR

(71) Caddix, Inc.
(21) 2025200525 (22) 24.01.2025
(54) DEFLECTABLE CLEAT SYSTEM FOR FOOTWEAR

(71) Caddix, Inc.
(21) 2025200526 (22) 24.01.2025
(54) DEFLECTABLE CLEAT SYSTEM FOR FOOTWEAR

(71) CATERPILLAR INC.
(21) 2025200359 (22) 17.01.2025
(54) Filtration device having a latch mechanism adapter

(71) CATERPILLAR INC.
(21) 2025200454 (22) 23.01.2025
(54) BRAKING CONTROL FOR MACHINE DESCENT

(71) CATERPILLAR INC.
(21) 2025200455 (22) 23.01.2025
(54) BATTERY OPTIMAL DYNAMIC TEMPERATURE CONTROL

(71) Cellscript, LLC
(21) 2025200489 (22) 24.01.2025
(54) MAKING AND USING IN VITRO-SYNTHESIZED ssRNA FOR INTRODUCING INTO MAMMALIAN CELLS TO INDUCE A BIOLOGICAL OR BIO-CHEMICAL EFFECT

(71) CHANCE LINE INDUSTRIAL CO., LTD.
(21) 2025200456 (22) 23.01.2025
(54) Light-Reflective Yarn Capable of Preventing Glass Microbeads from Falling Off

(71) CNH Industrial America LLC
(21) 2025200363 (22) 17.01.2025
(54) Variable speed drive for chaff mill of combine harvester

(71) Coglitore, C.
(21) 2025200377 (22) 18.01.2025
(54) Stockpay an conversion of volatile assets using AI technology and blockchain

(71) Collision, Inc.
(21) 2025200351 (22) 17.01.2025
(54) Compositions, Kits, Methods and Uses for Cleaning, Disinfecting, Sterilizing and/or Treating

(71) Commonwealth Scientific and Industrial Research Organisation
(21) 2025200458 (22) 23.01.2025
(54) Electrode compositions

(71) CRI HF
(21) 2025200432 (22) 22.01.2025
(54) Reactor

(71) crop.zone GmbH
(21) 2025200410 (22) 21.01.2025
(54) APPARATUS FOR APPLYING CONTACT RESISTANCE-REDUCING MEDIA AND APPLYING CURRENT TO PLANTS

(71) Daiichi Sankyo Company, Limited
(21) 2025200368 (22) 17.01.2025
(54) ANTI-CD3 ANTIBODY AND MOLECULES COMPRISING THE ANTIBODY

Dart, G. see Lee, F.
(21) 2025200536

(71) Davines S.p.A.
(21) 2025200442 (22) 23.01.2025
(54) Process for treating hair

(71) Debina Diagnostics, Inc.
(21) 2025200438 (22) 22.01.2025
(54) NANODIAMOND PARTICLES AND RELATED DEVICES AND METHODS

(71) Dellas, J.
(21) 2025200449 (22) 23.01.2025
(54) A HANDHELD MOBILE COMMUNICATION DEVICE CONNECTED DONATION RECEIVING APPARATUS

(71) Distalmotion SA
(21) 2025200295 (22) 15.01.2025
(54) SURGICAL ROBOT SYSTEMS COMPRISING ROBOTIC TELEMANIPULATORS AND INTEGRATED LAPAROSCOPY

(71) DX TECH PTY LTD
(21) 2025200358 (22) 17.01.2025
(54) Drone system for powerline inspection using radio frequency scanning techniques

(71) Eaton Intelligent Power Limited
(21) 2025200448 (22) 23.01.2025
(54) Current control apparatus

(71) Elbaite Holdings Pty Limited
(21) 2025200444 (22) 23.01.2025
(54) A method of facilitating transactions between users

(71) Eli Lilly and Company
(21) 2025200406 (22) 21.01.2025
(54) Systems and methods for remote prescription of medication-dosing regimens

(71) Epineuron Technologies Inc.
(21) 2025200465 (22) 23.01.2025
(54) Systems and methods for delivering neuroregenerative therapy

(71) Ergon, Inc.
(21) 2025200402 (22) 21.01.2025

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(54) Method for modifying asphalt using oil having reduced polycyclic aromatic hydrocarbon (PAH) content obtained from the pyrolysis of waste tires

(71) ETCETRA LABS PTY LTD
(21) 2025200337 (22) 16.01.2025
(54) TECHNOLOGY CONFIGURED TO ENABLE IMPROVED SECURE COMMUNICATION OVER A NETWORK

(71) Expedia, Inc.
(21) 2025200326 (22) 16.01.2025
(54) Image classification system

(71) Ferring Microbiome Inc.
(21) 2025200487 (22) 24.01.2025
(54) Microbiota restoration therapy (MRT), compositions and methods of manufacture

(71) FISHER & PAYKEL HEALTHCARE LIMITED
(21) 2025200441 (22) 23.01.2025
(54) BREATHING CONTROL USING HIGH FLOW RESPIRATION ASSISTANCE

(71) FISHER & PAYKEL HEALTHCARE LIMITED
(21) 2025200539 (22) 28.01.2025
(54) HUMIDIFICATION CHAMBER FOR A RESPIRATORY ASSISTANCE APPARATUS

(71) Flagship Pioneering Innovations V, Inc.
(21) 2025200497 (22) 24.01.2025
(54) COMPOSITIONS COMPRISING CURONS AND USES THEREOF

(71) Form Energy, Inc.
(21) 2025200494 (22) 24.01.2025
(54) NEGATIVE ELECTRODES FOR ELECTROCHEMICAL CELLS

(71) Foshan Temai Automobile Technology Co., Ltd.
(21) 2025200477 (22) 24.01.2025
(54) Car refrigerator installation method and installation structure

(71) Friedrich Seiz GmbH
(21) 2025200503 (22) 24.01.2025
(54) Glove

(71) Frito-Lay North America, Inc.
(21) 2025200316 (22) 16.01.2025
(54) POTATO CULTIVAR 'FL 2602'

(71) Gargan, D.
(21) 2025200532 (22) 27.01.2025

(54) Apparatus for use in Agriculture

(71) Genentech, Inc.
(21) 2025200428 (22) 22.01.2025
(54) Process for the preparation of tricyclic PI3K inhibitor compounds and methods of using the same for the treatment of cancer

(71) GEORGE, V.; RAMIREZ, P.
(21) 2025200554 (22) 28.01.2025
(54) Systems and methods for automated arrangement of robotic elements

Gilead Sciences, Inc. see Aelix Therapeutics S.L.
(21) 2025200420

(71) GILEAD SCIENCES, INC.
(21) 2025200425 (22) 22.01.2025
(54) METHODS OF PREPARING CARBANUCLEOSIDES USING AMIDES

(71) Goodrich, D.
(21) 2025200502 (22) 24.01.2025
(54) SLIT SHEET TENSIONING DEVICE

(71) Google LLC
(21) 2025200546 (22) 28.01.2025
(54) QUANTUM CIRCUIT OPTIMIZATION USING WINDOWED QUANTUM ARITHMETIC

(71) Graco Minnesota Inc.
(21) 2025200320 (22) 16.01.2025
(54) Spray gun and components for spraying paints and other coatings

(71) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(21) 2025200504 (22) 24.01.2025
(54) Method for encoding/decoding image signal and device for same

(71) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(21) 2025200505 (22) 24.01.2025
(54) Method for encoding/decoding image signal and device for same

(71) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(21) 2025200506 (22) 24.01.2025
(54) Method for encoding/decoding image signal and device for same

(71) GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.
(21) 2025200507 (22) 24.01.2025

(54) Method for encoding/decoding image signal and device for same

Hall, D. see My Lawn Co.
(21) 2025200340

(71) Hanna, I.
(21) 2025200472 (22) 23.01.2025
(54) SELF-CHARGED FOUR STROKE ONE-CYCLE COMBUSTION CYLINDER FOR INTERNAL COMBUSTION ENGINE

(71) Haoheng (Fujian) Building Materials Technology Co., Ltd.
(21) 2025200459 (22) 23.01.2025
(54) SELF-HELICAL GROUND PILE

(71) Honeywell International Inc.
(21) 2025200362 (22) 17.01.2025
(54) Enterprise spend optimization and mapping model architecture

(71) Huawei Technologies Co., Ltd.
(21) 2025200314 (22) 16.01.2025
(54) METHOD AND APPARATUS FOR REDUCING A PEAK TO AVERAGE POWER RATIO IN THE TRANSMISSION OF PHYSICAL LAYER PROTOCOL DATA UNITS

(71) Huawei Technologies Co., Ltd.
(21) 2025200360 (22) 17.01.2025
(54) Method for determining spatial reuse parameter field in PPDU and related apparatus

(71) Huawei Technologies Co., Ltd.
(21) 2025200416 (22) 22.01.2025
(54) METHOD AND APPARATUS FOR CHROMA INTRA PREDICTION IN VIDEO CODING

(71) Hummingbird Diagnostics GmbH
(21) 2025200547 (22) 28.01.2025
(54) Novel RNA molecule for cancer detection

(71) Icahn School of Medicine at Mount Sinai; Stichting Katholieke Universiteit
(21) 2025200346 (22) 17.01.2025
(54) INHIBITING TRAINED IMMUNITY WITH A THERAPEUTIC NANOBILOGIC COMPOSITION

(71) Icahn School of Medicine at Mount Sinai
(21) 2025200423 (22) 22.01.2025
(54) SYSTEMS AND METHODS FOR PROCESSING CONNECTIVITY VALUES

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(71) ImaginAb, Inc. (21) 2025200544 (22) 28.01.2025 (54) Antigen binding constructs to target molecules	(71) I-sens, Inc. (21) 2025200484 (22) 24.01.2025 (54) KIT FOR QUANTITATIVE ANALYSIS OF GLYCATED ALBUMIN, METHOD FOR QUANTITATIVE ANALYSIS OF GLYCATED ALBUMIN, AND APPARATUS FOR PERFORMING THE SAME	(71) Lentigen Technology, Inc. (21) 2025200478 (22) 24.01.2025 (54) Compositions and methods for treating cancer with duoCARs
(71) IMBA - Institut für Molekulare Biotechnologie GmbH (21) 2025200408 (22) 21.01.2025 (54) Blood Vessel Organoid, Methods Of Producing And Using Said Organoids	(71) Jixiangju Food Co., Ltd. (21) 2025200318 (22) 16.01.2025 (54) Lactic acid synergized non-thermal processing method for controlling textural deterioration of packaged low-salt fermented vegetables during storage	(71) LG Electronics Inc. (21) 2025200452 (22) 23.01.2025 (54) SYSTEM AND METHOD FOR PERFORMING NEAR REAL-TIME NETWORK INFRASTRUCTURE SYNC USING CONFIGURATION DIFFERENCE
(71) ImmunityBio, Inc. (21) 2025200336 (22) 16.01.2025 (54) Single-chain chimeric polypeptides and uses thereof	(71) Juno Therapeutics GmbH (21) 2025200426 (22) 22.01.2025 (54) CHROMATOGRAPHIC ISOLATION OF CELLS AND OTHER COMPLEX BIOLOGICAL MATERIALS	(71) LG Electronics Inc. (21) 2025200495 (22) 24.01.2025 (54) Ice maker and refrigerator having the same
(71) Ingram Micro Inc. (21) 2025200528 (22) 25.01.2025 (54) SINGLE PANE OF GLASS MOBILE APPLICATION INCLUDING ERP AGNOSTIC REALTIME DATA MESH WITH DATA CHANGE CAPTURE	(71) Kanade, U. (21) 2025200519 (22) 24.01.2025 (54) Interpolating Gear Trains and Gear Networks	(71) LG ELECTRONICS INC. (21) 2025200424 (22) 22.01.2025 (54) APPARATUS FOR TREATING LAUNDRY
(71) Ingram Micro Inc. (21) 2025200535 (22) 27.01.2025 (54) SYSTEMS AND METHODS FOR MANAGING AGNOSTIC DATA FORMS FOR VENDORS	(71) Karis Bio Inc. (21) 2025200333 (22) 16.01.2025 (54) Method of isolation of pure culture of vascular endothelial cells, medium for maintaining characteristics of vascular endothelial cells, and culture method including same	(71) LG ELECTRONICS INC. (21) 2025200541 (22) 28.01.2025 (54) APPARATUS FOR TREATING LAUNDRY
(71) Innovator Corporation (21) 2025200464 (22) 23.01.2025 (54) Magnetic Pulse Therapy Device (MPTD) for the Treatment of Pain	(71) Kljuce, U.; Quantum Growth Research PTY LTD (21) 2025200533 (22) 27.01.2025 (54) BIRD HOUSE POT PLANTER	(71) MacDon Industries Ltd. (21) 2025200309 (22) 16.01.2025 (54) AUTONOMOUS CONTROL OF A CROP HARVESTING HEADER
(71) Intellia Therapeutics, Inc.; Novartis AG (21) 2025200366 (22) 17.01.2025 (54) Compositions and methods for the treatment of hemoglobinopathies	(71) Kone Corporation (21) 2025200447 (22) 23.01.2025 (54) An Elevator Car Movement Monitoring System And A Method For Monitoring Elevator Car Movement	(71) Mako Surgical Corp. (21) 2025200399 (22) 21.01.2025 (54) Automated determination of bone mineral density from a medical image
(71) International Safety Components Ltd. (21) 2025200486 (22) 24.01.2025 (54) Rope Management Tool	(71) Krystal Biotech, Inc. (21) 2025200334 (22) 16.01.2025 (54) Compositions and methods for the treatment of wounds, disorders, and diseases of the skin	(71) MAKO Surgical Corp. (21) 2025200463 (22) 23.01.2025 (54) End effectors and methods for driving tools guided by surgical robotic systems
(71) Iovance Biotherapeutics, Inc. (21) 2025200434 (22) 22.01.2025 (54) Processes for production of tumor infiltrating lymphocytes and uses of same in immunotherapy	(71) Kunming University of Science and Technology (21) 2025200376 (22) 18.01.2025 (54) Application of Activator for Refractory Copper Oxide Ore	(71) MasterCard International Incorporated (21) 2025200473 (22) 24.01.2025 (54) Systems and methods for authenticating online users in regulated environments
(71) Ipsen Biopharm Limited (21) 2025200548 (22) 28.01.2025 (54) Non-toxic clostridial neurotoxin polypeptides for use in treating neurological disorders		(71) MasterCard International Incorporated (21) 2025200492 (22) 24.01.2025 (54) Systems and methods for authenticating online users with an access control server
(71) I-sens, Inc. (21) 2025200482 (22) 24.01.2025		

Complete Applications Filed - Name Index cont'd

(71) MasterCard International Incorporated
(21) 2025200545 (22) 28.01.2025
(54) Systems and methods for authenticating online users

(71) Mayo Foundation for Medical Education and Research
(21) 2025200286 (22) 15.01.2025
(54) Purified exosome products, method of making, and methods of using

(71) Medcover Public Co Ltd
(21) 2025200522 (22) 24.01.2025
(54) TARGET-ENRICHED MULTIPLEXED PARALLEL ANALYSIS FOR ASSESSMENT OF TUMOR BIOMARKERS

(71) MEHTA, M.
(21) 2025200407 (22) 21.01.2025
(54) A STUMP – CAMERA ASSEMBLY

(71) MELTON FIRES PTY LTD
(21) 2025200527 (22) 24.01.2025
(54) Heat Recovery Flue Reducer

(71) MERCK PATENT GMBH
(21) 2025200385 (22) 20.01.2025
(54) Imidazolonyl quinolines and use thereof as ATM kinase inhibitors

(71) MILLER TECHNOLOGY INCORPORATED
(21) 2025200413 (22) 22.01.2025
(54) Speed Controller for Vehicles

(71) ModernaTX, Inc.
(21) 2025200531 (22) 27.01.2025
(54) Cancer vaccines

(71) Modern Meadow, Inc.
(21) 2025200347 (22) 17.01.2025
(54) Layered collagen materials and methods of making the same

(71) Monsanto Technology LLC
(21) 2025200341 (22) 16.01.2025
(54) Herbicidal compositions

(71) My Lawn Co.; Hall, D.
(21) 2025200340 (22) 16.01.2025
(54) MY LAWN CO. RESCUE Dog Wee Repair

(71) Nextracker LLC
(21) 2025200338 (22) 16.01.2025
(54) Light management systems for optimizing performance of bifacial solar module

(71) Nextracker LLC
(21) 2025200553 (22) 28.01.2025
(54) Power Converters and Methods of Controlling Same

Nordex Energy SE & Co. KG see Nordex Energy Spain S.A.U.
(21) 2025200435

(71) Nordex Energy Spain S.A.U.; Nordex Energy SE & Co. KG
(21) 2025200435 (22) 22.01.2025
(54) A method for identifying a defect in an electrical component of an energy installation, generator unit, energy installation, computer implemented method and computer program product

Novartis AG see Intellia Therapeutics, Inc.
(21) 2025200366

(71) Novomatic AG
(21) 2025200436 (22) 22.01.2025
(54) Systems, Methods, And Gaming Machines Having Adjustable Progressive Awards

(71) Nunhems B.V.
(21) 2025200356 (22) 17.01.2025
(54) Lettuce variety NUN 05434 LTL

(71) Owens-Brockway Glass Container Inc.
(21) 2025200290 (22) 15.01.2025
(54) Glass redox control in submerged combustion melting

Peking University see Beijing LongRuan Technologies, Inc.
(21) 2025200471

(71) PERRYDIGMA RESEARCH LTD.
(21) 2025200461 (22) 23.01.2025
(54) Intraoral Device

(71) POMA
(21) 2025200453 (22) 23.01.2025
(54) Electric generator, conversion method and method for using one such generator

(71) Primewan Limited
(21) 2025200480 (22) 24.01.2025
(54) METHOD OF FORMING A VIRTUAL NETWORK

(71) PROGRESS RAIL LOCOMOTIVE INC.
(21) 2025200300 (22) 16.01.2025
(54) MODELING TRAIN MOVEMENT DYNAMICS FOR TRAIN CONTROL

(71) Pure Storage, Inc.
(21) 2025200352 (22) 17.01.2025
(54) Synchronously replicating datasets and other managed objects to cloud-based storage systems

Quantum Growth Research PTY LTD see Kljucic, U.
(21) 2025200533

RAMIREZ, P. see GEORGE, V.
(21) 2025200554

(71) Rapid Micro Biosystems, Inc.
(21) 2025200319 (22) 16.01.2025
(54) Filtration assemblies, cassettes, systems, and methods for filtration and cell growth

(71) Regeneron Pharmaceuticals, Inc.
(21) 2025200323 (22) 16.01.2025
(54) CBLB endonuclease variants, compositions, and methods of use

(71) Research Institute At Nationwide Children's Hospital
(21) 2025200437 (22) 22.01.2025
(54) Adeno-Associated Virus Vector Delivery Of Muscle Specific Micro-Dystrophin To Treat Muscular Dystrophy

(71) Ridgeview Digital LLC
(21) 2025200542 (22) 28.01.2025
(54) SYSTEMS AND METHODS FOR FACILITATING TRANSACTIONS USING A DIGITAL CURRENCY

(71) Ross, G.
(21) 2025200529 (22) 25.01.2025
(54) ECO SYSTEM BARRIERS

(71) Rothamsted Research Ltd
(21) 2025200293 (22) 15.01.2025
(54) Production of omega-3 long chain polyunsaturated fatty acids

(71) RR Medsciences Pty Ltd
(21) 2025200440 (22) 22.01.2025
(54) COMPOSITIONS AND THEIR USE IN THE TREATMENT OF ENDOMETRIOSIS AND PAIN

(71) Sage Therapeutics, Inc.
(21) 2025200422 (22) 22.01.2025
(54) Neuroactive steroids substituted in position 10 with a cyclic group for use in the treatment of CNS disorders

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(71) Sciencons AS
(21) 2025200382 (22) 20.01.2025
(54) Production of highly purified 212Pb

(71) SCREEN Holdings Co., Ltd.
(21) 2025200396 (22) 21.01.2025
(54) JOINED BASE MATERIAL, PEELING METHOD, COATING METHOD, PEELING DEVICE, COATING DEVICE, AND BASE MATERIAL CONNECTING METHOD

(71) Seegene, Inc.
(21) 2025200543 (22) 28.01.2025
(54) Computer-implemented method for providing nucleic acid sequence data set for design of oligonucleotide

(71) SENSE2 PTY LTD
(21) 2025200439 (22) 22.01.2025
(54) 3D-Stacked Photonic-Neuromorphic AI Accelerator With ReRAM, Binarized Logic, PQC Security, Microfluidic Cooling, and Optional Advanced Modules

(71) SENSE2 PTY LTD
(21) 2025200530 (22) 26.01.2025
(54) 3D-Stacked Neuromorphic-Photonic AI Accelerator With ReRAM, Binarized Logic, PQC Security, Microfluidic Cooling, and Expanded HPC/GPU/ASIC Integration

(71) SHANGHAI ZELGEN PHARMA.TECH CO., LTD.; SUZHOU ZELGEN BIOPHARMACEUTICALS CO., LTD.
(21) 2025200332 (22) 16.01.2025
(54) Substituted benzo or pyridopyrimidine amine inhibitor, preparation method thereof, and application thereof

(71) Sheltered Wings, Inc. D/B/A Vortex Optics
(21) 2025200446 (22) 23.01.2025
(54) A display system for a viewing optic

(71) ShenZhen Eastfield Lighting Co. Ltd.
(21) 2025200509 (22) 24.01.2025
(54) Lens for generating polarized light pattern and lamp

(71) Sight Sciences, Inc.
(21) 2025200421 (22) 22.01.2025
(54) OCULAR DELIVERY SYSTEMS AND METHODS

(71) Simpson Strong-Tie A/S
(21) 2025200474 (22) 24.01.2025
(54) Wind brace tensioning bracket and tensioning system

(71) Skechers U.S.A., Inc. II
(21) 2025200510 (22) 24.01.2025
(54) Footwear counter for easier entry and removal

(71) Skechers U.S.A., Inc. II
(21) 2025200511 (22) 24.01.2025
(54) Footwear counter for easier entry and removal

(71) Skechers U.S.A., Inc. II
(21) 2025200512 (22) 24.01.2025
(54) Footwear counter for easier entry and removal

(71) Skechers U.S.A., Inc. II
(21) 2025200513 (22) 24.01.2025
(54) Footwear counter for easier entry and removal

(71) Skechers U.S.A., Inc. II
(21) 2025200514 (22) 24.01.2025
(54) Footwear counter for easier entry and removal

(71) Skechers U.S.A., Inc. II
(21) 2025200515 (22) 24.01.2025
(54) Footwear counter for easier entry and removal

(71) Skechers U.S.A., Inc. II
(21) 2025200516 (22) 24.01.2025
(54) Footwear counter for easier entry and removal

(71) Skechers U.S.A., Inc. II
(21) 2025200517 (22) 24.01.2025
(54) Footwear counter for easier entry and removal

(71) Skechers U.S.A., Inc. II
(21) 2025200518 (22) 24.01.2025
(54) Footwear counter for easier entry and removal

(71) Smilestraw Pty Ltd
(21) 2025200469 (22) 23.01.2025
(54) Pacifier

(71) Société des Produits Nestlé S.A.
(21) 2025200329 (22) 16.01.2025
(54) Compositions and methods using a nicotinamide adenine dinucleotide (NAD+) precursor and at least one ketone or ketone precursor

(71) Société des Produits Nestlé S.A.
(21) 2025200331 (22) 16.01.2025
(54) Compositions and methods using a nicotinamide adenine dinucleotide

(NAD+) precursor and at least one ketone or ketone precursor

Stichting Katholieke Universiteit see Icahn School of Medicine at Mount Sinai
(21) 2025200346

(71) Sun Pharmaceutical Industries, Inc.
(21) 2025200345 (22) 17.01.2025
(54) DEUTERATED ANALOGS OF D-SERINE AND USES THEREOF

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(21) 2025200332

(71) Swan Hill Engineering Pty Ltd
(21) 2025200371 (22) 17.01.2025
(54) Run-Off Water Removal System

(71) Syqe Medical Ltd.
(21) 2025200462 (22) 23.01.2025
(54) Methods, Devices And Systems For Pulmonary Delivery Of Active Agents

(71) Taizhou Runjie Logistics Safety Equipment Science and Technology Co., Ltd.
(21) 2025200470 (22) 23.01.2025
(54) WEAR-RESISTANT ANTI-SLIP WEBBING AND A PREPARATION PROCESS THEREOF

(71) Takeda Pharmaceutical Company Limited
(21) 2025200412 (22) 22.01.2025
(54) Peptide quantitation assay for differentiating full-length high molecular weight kininogen (HMWK) and cleaved HMWK

(71) TANIOS, A.
(21) 2025200433 (22) 22.01.2025
(54) Compact Inflatable Pool Slide with Detachable Water-Weighted Stepping Pad

(71) TATE & LYLE SOLUTIONS USA LLC
(21) 2025200365 (22) 17.01.2025
(54) ENGINEERED GLYCOSYLTRANSFERASES AND STEVIOL GLYCOSIDE GLUCOSYLATION METHODS

(71) Techtronic Cordless GP
(21) 2025200523 (22) 24.01.2025
(54) Current collector with embossed bumps

(71) TE Connectivity Solutions GmbH; Tyco Electronics Raychem GmbH
(21) 2025200493 (22) 24.01.2025
(54) Device installation system, related tools, and methods

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(71) Tencent America LLC (21) 2025200445 (22) 23.01.2025 (54) METHOD FOR REFERENCE PICTURE RESAMPLING WITH OFFSET IN VIDEO BITSTREAM	(71) Theion GmbH (21) 2025200335 (22) 16.01.2025 (54) Monolithic wafer-like cathode synergically grown from poly-crystalline and amorphous glass-like domains and method of producing thereof	(54) A monoclonal antibody targeting a unique sialoglycosylated cancer-associated epitope of CD43
(71) Tencent America LLC (21) 2025200460 (22) 23.01.2025 (54) Method and apparatus of encoding and decoding video data, method for storing bitstream, and storage medium	(71) The Johns Hopkins University (21) 2025200315 (22) 16.01.2025 (54) Compositions and methods for treating vascular Ehlers Danlos Syndrome and associated disorders	(71) University of Iowa Research Foundation (21) 2025200417 (22) 22.01.2025 (54) Compositions for chelating metals at low temperatures
(71) Tencent America LLC (21) 2025200475 (22) 24.01.2025 (54) CODING TREE UNIT SIZE SIGNALING	(71) The Regents of the University of California (21) 2025200282 (22) 15.01.2025 (54) Immunomodulatory oligosaccharides	(71) VERTEX PHARMACEUTICALS INCORPORATED (21) 2025200324 (22) 16.01.2025 (54) Devices and methods for delivering therapeutics
(71) Tencent America LLC (21) 2025200476 (22) 24.01.2025 (54) CHROMA FROM LUMA PREDICTION USING NEIGHBOR LUMA SAMPLES	(71) The Regents of The University of California (21) 2025200467 (22) 23.01.2025 (54) Claudin6 antibodies and methods of treating cancer	(71) Vesco Medical LLC (21) 2025200429 (22) 22.01.2025 (54) Connectors for infusion pump feeding sets
(71) Tencent America LLC (21) 2025200508 (22) 24.01.2025 (54) GEOMETRIC PARTITIONING MODE IN VIDEO CODING	(71) The Trustees of the University of Pennsylvania (21) 2025200387 (22) 20.01.2025 (54) Compositions and methods for T cell delivery of therapeutic molecules	(71) VIG AUSTRALIA PTY LTD (21) 2025200488 (22) 24.01.2025 (54) Double-chain winder for window
(71) Tencent America LLC (21) 2025200558 (22) 28.01.2025 (54) Method for mixed NAL unit type support in a coded picture	(71) Transportation IP Holdings, LLC (21) 2025200499 (22) 24.01.2025 (54) SYSTEM AND METHOD INTEGRATING AN ENERGY MANAGEMENT SYSTEM AND YARD PLANNER SYSTEM	(71) Waddington North America, Inc. (21) 2025200521 (22) 24.01.2025 (54) STACKABLE CONTAINERS WITH SUPPORT BAND
(71) Tensar International Corporation (21) 2025200490 (22) 24.01.2025 (54) Sensor-enabled system and method for monitoring the health, condition, and/or status of infrastructure	(71) Trudeau, L. (21) 2025200419 (22) 22.01.2025 (54) Portable foam brush	(71) Washington University (21) 2025200450 (22) 23.01.2025 (54) Cells And Methods Of Uses And Making The Same
(71) Terra Quantum AG (21) 2025200479 (22) 24.01.2025 (54) A method for providing content for authentication and authenticating content	Tyco Electronics Raychem GmbH see TE Connectivity Solutions GmbH (21) 2025200493	(71) Wilcox Industries Corp. (21) 2025200393 (22) 20.01.2025 (54) Pivoting Head Up Display Apparatus
(71) The Boeing Company (21) 2025200312 (22) 16.01.2025 (54) Aircraft turbulence notification system and method	(71) uniQure IP B.V. (21) 2024278563 (22) 18.12.2024 (54) Means and methods for AAV gene therapy in humans	(71) Willow Innovations, Inc. (21) 2025200418 (22) 22.01.2025 (54) Container assemblies for a breast pump
(71) The Chamberlain Group LLC (21) 2025200496 (22) 24.01.2025 (54) MOVABLE BARRIER OPERATOR WITH INTEGRATED CAMERA MODULE	(71) Universal Hydrogen Co. (21) 2025200485 (22) 24.01.2025 (54) SYSTEMS AND METHODS FOR STORING, TRANSPORTING, AND USING HYDROGEN	(71) Wing Aviation LLC (21) 2025200369 (22) 17.01.2025 (54) Fold-out propeller tip extensions
(71) The Couta Group Pty Limited (21) 2025200520 (22) 24.01.2025 (54) Electric door strike	(71) Università Degli Studi Magna Graecia Catanzaro (21) 2025200373 (22) 17.01.2025	(71) WONDERLAND SWITZERLAND AG (21) 2025200466 (22) 23.01.2025 (54) Child Safety Seat
		(71) Xpan Inc. (21) 2025200375 (22) 17.01.2025 (54) RADIALLY EXPANDABLE CANNULA SYSTEM
		(71) YETI Coolers, LLC (21) 2025200287 (22) 15.01.2025

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(54) Portable cooler with active temperature control

(71) YETI COOLERS, LLC
(21) 2025200321 (22) 16.01.2025
(54) Insulating container

(71) Zero Emission Industries, Inc.
(21) 2025200350 (22) 17.01.2025
(54) GASEOUS FUELING SYSTEM

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2025200288	Bristol-Myers Squibb Company	2025200402	Ergon, Inc.
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2025200293	Rothamsted Research Ltd	2025200406	Eli Lilly and Company
2025200295	Distalmotion SA	2025200407	MEHTA, M.
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2025200301	Angel Group Co., Ltd.	2025200410	crop.zone GmbH
2025200303	Alexion Pharmaceuticals, Inc.	2025200412	Takeda Pharmaceutical Company Limited
2025200309	MacDon Industries Ltd.	2025200413	MILLER TECHNOLOGY INCORPORATED
2025200312	The Boeing Company	2025200414	Boreal Technology & Investment S.L.
2025200313	Alexion Pharmaceuticals, Inc.	2025200415	Biolyph, LLC
2025200314	Huawei Technologies Co., Ltd.	2025200416	Huawei Technologies Co., Ltd.
2025200315	The Johns Hopkins University	2025200417	University of Iowa Research Foundation
2025200316	Frito-Lay North America, Inc.	2025200418	Willow Innovations, Inc.
2025200318	Jixiangju Food Co., Ltd.	2025200419	Trudeau, L.
2025200319	Rapid Micro Biosystems, Inc.	2025200420	Aelix Therapeutics S.L.; Gilead Sciences, Inc.
2025200320	Graco Minnesota Inc.	2025200421	Sight Sciences, Inc.
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2025200323	Regeneron Pharmaceuticals, Inc.	2025200423	Icahn School of Medicine at Mount Sinai
2025200324	VERTEX PHARMACEUTICALS INCORPORATED	2025200424	LG ELECTRONICS INC.
2025200325	Angel Group Co., Ltd.	2025200425	GILEAD SCIENCES, INC.
2025200326	Expedia, Inc.	2025200426	Juno Therapeutics GmbH
2025200329	Société des Produits Nestlé S.A.	2025200427	Beijing HyperStrong Technology Co., Ltd.
2025200330	Angel Group Co., Ltd.	2025200428	Genentech, Inc.
2025200331	Société des Produits Nestlé S.A.	2025200429	Vesco Medical LLC
2025200332	SHANGHAI ZELGEN PHARMA.TECH CO., LTD.; SU-ZHOU ZELGEN BIOPHARMACEUTICALS CO., LTD.	2025200430	Alpine Immune Sciences, Inc.
2025200333	Karis Bio Inc.	2025200431	Britax Childcare Pty Ltd
2025200334	Krystal Biotech, Inc.	2025200432	CRI HF
2025200335	Theion GmbH	2025200433	TANIOS, A.
2025200336	ImmunityBio, Inc.	2025200434	Iovance Biotherapeutics, Inc.
2025200337	ETCETRA LABS PTY LTD	2025200435	Nordex Energy Spain S.A.U.; Nordex Energy SE & Co. KG
2025200338	Nextracker LLC	2025200436	Novomatic AG
2025200340	My Lawn Co.; Hall, D.	2025200437	Research Institute At Nationwide Children's Hospital
2025200341	Monsanto Technology LLC	2025200438	Debina Diagnostics, Inc.
2025200344	Bruin Biometrics, LLC	2025200439	SENSE2 PTY LTD
2025200345	Sun Pharmaceutical Industries, Inc.	2025200440	RR Medsciences Pty Ltd
2025200346	Icahn School of Medicine at Mount Sinai; Stichting Katholieke Universiteit	2025200441	FISHER & PAYKEL HEALTHCARE LIMITED
2025200347	Modern Meadow, Inc.	2025200442	Davines S.p.A.
2025200348	Apple Inc.	2025200443	Blackhawk Network, Inc.
2025200350	Zero Emission Industries, Inc.	2025200444	Elbait Holdings Pty Limited
2025200351	Collidion, Inc.	2025200445	Tencent America LLC
2025200352	Pure Storage, Inc.	2025200446	Sheltered Wings, Inc. D/B/A Vortex Optics
2025200354	AC Industries Nominees Pty Ltd	2025200447	Kone Corporation
2025200355	BRISTOL-MYERS SQUIBB COMPANY	2025200448	Eaton Intelligent Power Limited
2025200356	Nunhems B.V.	2025200449	Dellas, J.
2025200358	DX TECH PTY LTD	2025200450	Washington University
2025200359	CATERPILLAR INC.	2025200451	BMT Limited
2025200360	Huawei Technologies Co., Ltd.	2025200452	LG Electronics Inc.
2025200362	Honeywell International Inc.	2025200453	POMA
2025200363	CNH Industrial America LLC	2025200454	CATERPILLAR INC.
2025200364	Berlin, M.S.	2025200455	CATERPILLAR INC.
2025200365	TATE & LYLE SOLUTIONS USA LLC	2025200456	CHANCE LINE INDUSTRIAL CO., LTD.
2025200366	Intellia Therapeutics, Inc.; Novartis AG	2025200458	Commonwealth Scientific and Industrial Research Organisation
2025200368	Daiichi Sankyo Company, Limited	2025200459	Haoheng (Fujian) Building Materials Technology Co., Ltd.
2025200369	Wing Aviation LLC	2025200460	Tencent America LLC
2025200371	Swan Hill Engineering Pty Ltd	2025200461	PERRYDIGMA RESEARCH LTD.
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2025200377	Coglitore, C.	2025200465	Epineuron Technologies Inc.
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2025200467	The Regents of The University of California	2025200533	Kljuje, U.; Quantum Growth Research PTY LTD
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2025200469	Smilestraw Pty Ltd	2025200535	Ingram Micro Inc.
2025200470	Taizhou Runjie Logistics Safety Equipment Science and Technology Co., Ltd.	2025200536	Lee, F.; Dart, G.
2025200471	Beijing LongRuan Technologies, Inc.; Peking University	2025200538	Adobe Inc.
2025200472	Hanna, I.	2025200539	FISHER & PAYKEL HEALTHCARE LIMITED
2025200473	MasterCard International Incorporated	2025200540	ASSA ABLOY AB
2025200474	Simpson Strong-Tie A/S	2025200541	LG ELECTRONICS INC.
2025200475	Tencent America LLC	2025200542	Ridgeview Digital LLC
2025200476	Tencent America LLC	2025200543	Seegene, Inc.
2025200477	Foshan Temai Automobile Technology Co., Ltd.	2025200544	ImaginAb, Inc.
2025200478	Lentigen Technology, Inc.	2025200545	MasterCard International Incorporated
2025200479	Terra Quantum AG	2025200546	Google LLC
2025200480	Primewan Limited	2025200547	Hummingbird Diagnostics GmbH
2025200481	Abiomed, Inc.	2025200548	Ipsen Biopharm Limited
2025200482	I-sens, Inc.	2025200549	Boston Scientific Scimed, Inc.
2025200483	BioNTech SE	2025200550	Boardman, L.
2025200484	I-sens, Inc.	2025200553	Nextracker LLC
2025200485	Universal Hydrogen Co.	2025200554	GEORGE, V.; RAMIREZ, P.
2025200486	International Safety Components Ltd.	2025200558	Tencent America LLC
2025200487	Ferring Microbiome Inc.	2025200559	Bushwakka Pty Ltd
2025200488	VIG AUSTRALIA PTY LTD		
2025200489	Cellscript, LLC		
2025200490	Tensar International Corporation		
2025200491	Abbott Diabetes Care Inc.		
2025200492	MasterCard International Incorporated		
2025200493	TE Connectivity Solutions GmbH; Tyco Electronics Raychem GmbH		
2025200494	Form Energy, Inc.		
2025200495	LG Electronics Inc.		
2025200496	The Chamberlain Group LLC		
2025200497	Flagship Pioneering Innovations V, Inc.		
2025200498	Angel Group Co., Ltd.		
2025200499	Transportation IP Holdings, LLC		
2025200500	Aristocrat Technologies Australia Pty Limited		
2025200501	Aristocrat Technologies Australia Pty Limited		
2025200502	Goodrich, D.		
2025200503	Friedrich Seiz GmbH		
2025200504	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.		
2025200505	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.		
2025200506	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.		
2025200507	GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.		
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2025200509	ShenZhen Eastfield Lighting Co. Ltd.		
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2025200511	Skechers U.S.A., Inc. II		
2025200512	Skechers U.S.A., Inc. II		
2025200513	Skechers U.S.A., Inc. II		
2025200514	Skechers U.S.A., Inc. II		
2025200515	Skechers U.S.A., Inc. II		
2025200516	Skechers U.S.A., Inc. II		
2025200517	Skechers U.S.A., Inc. II		
2025200518	Skechers U.S.A., Inc. II		
2025200519	Kanade, U.		
2025200520	The Couta Group Pty Limited		
2025200521	Waddington North America, Inc.		
2025200522	Medicover Public Co Ltd		
2025200523	Techtronic Cordless GP		
2025200524	Caddix, Inc.		
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2025200526	Caddix, Inc.		
2025200527	MELTON FIRES PTY LTD		
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2025200531	ModernaTX, Inc.		
2025200532	Gargan, D.		

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Applications listed below were processed through the Patent Office Canberra during the period ending 21 Jan 2025 .
(This list may contain multiple listings of a patent application where there are multiple applicants for that patent.)

(71) GIBSON, J.
(21) 2025100000 (22) 24.01.2025
(54) CONTAINER DEPOSIT COLLECTION
RECEPTACLE
(62) 2021221813

(71) Suktarachan, P.
(21) 2025100001 (22) 25.01.2025
(54) RogerRoj SocialScience BioInformatic
WealthManagement FinancialServices
Reformulation (RBW)
(62) 2020201206

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2025100000 GIBSON, J.

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Applications Lapsed, Refused Or Withdrawn, Patents Ceased or Expired

Reference to the application numbers must include the year of the application of the patent, which is shown preceding the numbers.

The codes next to each number have the following meanings:

Code Meaning

1	Application Lapsed Section 142(2)(a)
3	Application Lapsed Section 142(2)(c)
4	Application Lapsed Section 142(2)(d)
5	Application Lapsed Section 142(2)(e)
6	Application Lapsed Section 142(2)(f)/Reg. 13.5A(2)\Reg. 8.3(3)
7	Application Lapsed Reg. 3.2A(3)/Reg. 3.2C
8	Application Lapsed Reg. 3.4(6)
9	Application Lapsed Section 142(3)
11	Application Lapsed Section 148(1)(c)
12	Application Withdrawn Section 141(1)
13	Application Withdrawn Section 141(2)/Reg 13.1C\Section 141(3)/See Reg 8.3(2)
14	Patent Ceased Section 143(a), or Expired
15	Patent Ceased Section 143(b)
16	Application Refused
17	Application Lapsed Reg. 22.2B(2)
18	Application Lapsed Reg. 3.2B(3),(5) or (6)
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21	Patent Ceased Section 101C(b)/Section 143A(c)/Reg. 9A.4
22	Patent Ceased Section 143A(d), or Expired
23	Patent Ceased Section 143A(e)
24	Application Lapsed Reg. 22.2E(2)
25	Application Lapsed Reg. 22.2I(2)
26	Application Lapsed Reg. 3.5AC(11)
27	Application Lapsed Reg. 3.5AF(2F)
28	Application Lapsed Reg. 22.15A(3)
A	Applications on which examination has not been requested or directed
B	Applications on which a direction to request examination has been given
C	Applications on which examination has been requested or on which an examination report has been issued
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F	Patents on which an examination has been requested or report issued
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N	Applications not Open to Public Inspection

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2005200230 (14)	2005200238 (14)	2005204712 (14)
2005204715 (14)	2005204901 (14)	2005205188 (14)
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 2024900157 (12AN) 2024900177 (12AN) 2024900179 (12AN)
 2024900381 (12AN) 2024900661 (12AN)

2025

2025200390 (12AN)

Assignments before Grant, Section 113

2018

2018354295 **Acceleron Pharma Inc.**; Adimab, LLC The application has been assigned to **Acceleron Pharma Inc.**

2020

2020206753 **Ember Technologies, Inc.** The application has been assigned to **Ember LifeSciences, Inc.**

2021

2021282718 **Neuroceuticals Inc.**; PAX Co., Ltd.; OTSUKA PHARMACEUTICAL FACTORY, INC. The application has been assigned to **Otsuka Clinical Solutions, Inc.**; **PAX Co., Ltd.**; **OTSUKA PHARMACEUTICAL FACTORY, INC.**

2021341024 **NEUROCEUTICALS INC.**; PAX CO., LTD.; OTSUKA PHARMACEUTICAL FACTORY, INC. The application has been assigned to **Otsuka Clinical Solutions, Inc.**; **PAX CO., LTD.**; **OTSUKA PHARMACEUTICAL FACTORY, INC.**

2022

2022235514 **Road Widener LLC** The application has been assigned to **Ligchine International Corporation**

2022370313 **LARKFLEET GROUP X HOUSE LIMITED** The application has been assigned to **X House Limited**

2023

2023228712 **LOCANABIO, INC.** The application has been assigned to **REGENERON PHARMACEUTICALS, INC.**

2023301208 **LOVE, Robert** The application has been assigned to **AirMorph LLC**

2024

2024900164 **NewSouth Innovations Pty Limited** The application has been assigned to **Vascular Therapeutics Pty Ltd**

Extensions of Time, Section 223

Applications Received

Notice of opposition under Section 223(6) to the undermentioned application(s) for an extension of time may be lodged at the Patent Office within the prescribed time.

2007

2007255209 **DENT, K.** An application to extend the time from 08 Jun 2024 to 08 Feb 2025 in which to pay a renewal fee has been filed . Address for service - Collison & Co Gpo Box 2556 Adelaide SA 5001 AU

2010

2010200765 **Australian Rail Track Corporation Limited** An application to extend the time from 01 Mar 2024 to 01 Dec 2024 in which to pay a renewal fee has been filed . Address for service - FB Rice Pty Ltd Level 33, 477 Collins Street Melbourne VIC 3000 AU

2014

2014238229 **Australian Rail Track Corporation Limited** An application to extend the time from 25 Feb 2024 to 25 Dec 2024 in which to

Extensions of Time, Section 223

pay a renewal fee has been filed . Address for service - FB Rice Pty Ltd Level 33, 477 Collins Street Melbourne VIC 3000 AU

Applications Allowed - Section 223(2)

2014

2014236272 **Flotek Chemistry, LLC** The time in which to pay a renewal fee has been extended to 14 Oct 2024 . Address for service - Pizzys Patent and Trade Mark Attorneys Pty Ltd PO Box 291 WODEN ACT 2606 AU

2016

2016202950 **Great Aussie Ideas Pty Ltd** The time in which to pay a renewal fee has been extended to 04 May 2024 . Address for service - mdp Patent and Trade Mark Attorneys PO Box 273 Collins Street West VIC 8007 AU

2017

2017228930 **Enrgistream Pty Ltd** The time in which to pay a renewal fee has been extended to 08 Oct 2024 . Address for service - Davies Collison Cave Pty Ltd Level 15 1 Nicholson Street MELBOURNE VIC 3000 AU

2020

2020254702 **Miller Dowel Company** The time in which to pay a continuation fee has been extended to 02 Nov 2024 . Address for service - Denneweyer & Associates Level 14 330 Collins St MELBOURNE VIC 3000 AU

2021

2021216063 **Sika Technology AG** The time in which to request examination has been extended to 05 Feb 2025 . Address for service - WRAYS PTY LTD L7 863 Hay St Perth WA 6000 AU

2021217726 **Sika Technology AG** The time in which to request examination has been extended to 05 Feb 2025 . Address for service - WRAYS PTY LTD L7 863 Hay St Perth WA 6000 AU

2021268680 **Jet Black Products Pty Ltd** The time in which to request examination has been extended to 09 Aug 2024 . Address for service - FORWARD INTELLECTUAL PROPERTY PTY LTD U 3 127 Crown Rd Queenscliff NSW 2096 AU

2021320231 **HYANNIS PORT RESEARCH, INC.** The time in which to enter the National Phase has been extended to 07 Nov 2024 . Address for service - Pizzys Patent and Trade Mark Attorneys Pty Ltd GPO Box 1374 Brisbane QLD 4001 AU

2021320770 **HYANNIS PORT RESEARCH, INC.** The time in which to enter the National Phase has been extended to 07 Nov 2024 . Address for service - Pizzys Patent and Trade Mark Attorneys Pty Ltd GPO Box 1374 Brisbane QLD 4001 AU

2023

2023265289 **PITTSBURGH CORNING EUROPE NV** The time in which to enter the National Phase has been extended to 03 Jan 2025 . Address for service - Davies Collison Cave Pty Ltd Level 15 1 Nicholson Street MELBOURNE VIC 3000 AU

Amendments

Applications for Amendment

A person interested in opposing the allowance of amendments under Section 104 may at any time within two months from the date of this journal give notice at the Patent Office using the approved form accompanied by the prescribed fee.

A person who wishes to be heard in relation to a proposed Rectification of the Register must file a request to be heard within two months from the date of this journal.

2018

2018374214 Adhesion layer bonded to an activated surface **The Trustees of Princeton University** The nature of the amendment is as shown in the statement(s) filed 13 Jan 2025 . Address for service - FB Rice Pty Ltd L 33 477 Collins Street Melbourne VIC 3000 AU

2023

2023203067 ELECTRONIC DEVICE **Getac Technology Corporation** The nature of the amendment is as shown in the statement(s) filed 03 Jan 2025 . Address for service - Baxter Patent Attorneys Pty Ltd Level 21, 207 Kent St Sydney NSW 2000 AU

Amendments Made

2019

2019234759 **Biogen MA Inc.** The nature of the amendment is as shown in the statement filed 31 Oct 2024

2019243434 **ConocoPhillips Company** The nature of the amendment is as shown in the statement filed 07 Oct 2024

2019278797 **Metso Sweden AB** The nature of the amendment is as shown in the statement filed 29 Oct 2024

2019301628 **Lieber Institute, Inc.** The nature of the amendment is as shown in the statement filed 21 Oct 2024

2019409132 **Novartis AG** The nature of the amendment is: Amend the name of the inventor to read BURGER, Matthew; D'ALESSIO, Joseph Anthony; FLEMING, Tony; KUNZ, Christian; RAUNIYAR, Vivek; ROBLES, Eusebio Manchado and WALDHUBER, Markus

2020

2020220061 **Dorel Australia Pty Ltd** The nature of the amendment is as shown in the statement filed 21 Oct 2024

2021

2021273624 **President and Fellows of Harvard College** The nature of the amendment is as shown in the statement filed 28 Oct 2024

2021299156 **Chong Kun Dang Pharmaceutical Corp.** The nature of the amendment is as shown in the statement filed 30 Oct 2024

2022

2022203291 **Arla Foods Amba** The nature of the amendment is as shown in the statement filed 31 Oct 2024

Amendments

2022214989 **YOSHINO GYPSUM CO., LTD.** The nature of the amendment is as shown in the statement filed 19 Sep 2024

2022246271 **KERECIS HF** The nature of the amendment is: Amend the invention title to read A Colored Biologic Wound Treatment Composition Providing Healing Progress Monitoring

2022265323 **BOEHRINGER INGELHEIM INTERNATIONAL GMBH** The nature of the amendment is as shown in the statement filed 10 Oct 2024

2023

2023201252 **Hubbell Incorporated** The nature of the amendment is: Amend the name of the inventor to read RHEIN, David, Adelbert and LOUCKS, Nathan Scot

2023208882 **ARGENX BV** The nature of the amendment is: Amend the name of the inventor to read VAN DER WONING, Sebastian and PERCIER, Jean-Michel

2023210422 **ARGENX BV** The nature of the amendment is: Amend the name of the inventor to read HEUZÉ-VOURC'H, Nathalie; VAN DER WONING, Sebastian and PERCIER, Jean-Michel

2023212015 **ELI LILLY AND COMPANY** The nature of the amendment is: Amend the name of the inventor to read CASTAÑO MANSANET, Ana Maria; DIAZ BUEZO, Nuria; DURHAM, Timothy Barrett; ESCRIBANO NIETO, Ana Maria; LAFUENTE BLANCO, Celia; LAMAS PETEIRA, Carlos; MARTIN FUENTES, Jose Alfredo; MARTINEZ PEREZ, Jose Antonio; PEREZ MARTINEZ, Carlos; PRIEGO SOLER, Julian; SANZ GIL, Gema Consuelo; TOTH, James Lee and TOLEDO ESCRIBANO, Miguel Angel

2023263178 **FIRSTSPEAR TECHNOLOGY GROUP, LLC** The nature of the amendment is: Amend the priority details to read 63/327,746 05 Apr 2022 US

2023273576 **FIRSTSPEAR TECHNOLOGY GROUP, LLC** The nature of the amendment is: Amend the priority details to read 63/327,353 04 Apr 2022 US and 63/327,746 05 Apr 2022 US

2023285052 **Wing Aviation LLC** The nature of the amendment is: Amend the name of the inventor to read PRAGER, Andre; HAMMOND, Marcus; JENKINS, Kevin; QIU, Ivan and LEWIN, Jasper

2023288807 **PANASONIC INTELLECTUAL PROPERTY MANAGEMENT CO., LTD.** The nature of the amendment is: Amend the invention title to read HOT WATER SUPPLY SYSTEM AND HOT WATER SUPPLY METHOD

2023290939 **BROUILLETTE, Y.** The nature of the amendment is: Amend the invention title to read FOUR POST WORKPIECE LIFT FOR SPORTS VEHICLES AND SMALL MACHINES

2023292707 **FIRST QUALITY TISSUE, LLC** The nature of the amendment is: Remove priority details 63/352,903 16 Jun 2022 US; 63/353,243 17 Jun 2022 US and 63/354,512 22 Jun 2022 US

2023293019 **EBARA CORPORATION** The nature of the amendment is: Amend the invention title to read Pump Apparatus

Amendments

202302264 **OJI HOLDINGS CORPORATION** The nature of the amendment is: Amend the invention title to read Base paper for vapor deposition paper, vapor deposition paper, packaging bag, laminate, and paper container for liquid

2023311310 **JFE STEEL CORPORATION** The nature of the amendment is: Amend the invention title to read COLD-IRON-SOURCE MELTING RATIO ESTIMATING DEVICE, COLD-IRON-SOURCE MELTING RATIO ESTIMATING METHOD, AND MOLTEN IRON REFINING METHOD

2023312014 **HUAWEI TECHNOLOGIES CO., LTD.** The nature of the amendment is: Amend the invention title to read COMMUNICATION METHOD IN WIRELESS LOCAL AREA NETWORK AND COMMUNICATION APPARATUS

2023315560 **PURECIRCLE SDN BHD; CORN PRODUCTS DEVELOPMENT, INC.** The nature of the amendment is: Amend the name of the inventor to read MARKOSYAN, Avetik; SUNDARESAN, Kasi; A/L RAMANDACH, Saravanan; BIN HASIM, Mohamad Afzaal; SAYEED, Maryam; NIZAM BIN NAWI, Khairul; PURKAYASTHA, Siddhartha and BERZINS, Adams

2024

202402263 **Novartis AG** The nature of the amendment is: Amend the name of the inventor to read BURGER, Matthew; D'ALESSIO, Joseph Anthony; FLEMING, Tony; KUNZ, Christian; RAUNIYAR, Vivek; ROBLES, Eusebio Machado and WALDHUBER, Markus

2024227715 **Balance Ophthalmics, Inc.** The nature of the amendment is: Amend the invention title to read Apparatus and methods for ocular autoregulation index determination

2024264642 **The Raymond Corporation** The nature of the amendment is: Amend the name of the inventor to read Tracy, Erik C.; Standard, Adam W. and Peterson, Robert J.

2024902030 **Freedom Screens Capital Pty Ltd** The nature of the amendment is: Amend the invention title to read Retractable Screen Assembly

2025

2025900078 **Coleman, A.** The nature of the amendment is: Amend the invention title to read Omnidirectional Solar Energy Collection System with Reflector Integration

Alteration of Name(s) of Applicant(s)/Patentee(s)

2019

2019368661 Bayer Animal Health GmbH The name of the applicant has been altered to **Elanco Animal Health GmbH**

2020

2020259426 A-Dec, Inc. The name of the applicant has been altered to **A-dec, Inc.**

2020260327 Bayer Animal Health GmbH The name of the applicant has been altered to **Elanco Animal Health GmbH**

Amendments

2020321572 Bayer Animal Health GmbH The name of the applicant has been altered to **Elanco Animal Health GmbH**

2021

2021233831 Smiths Medical ASD, Inc. The name of the applicant has been altered to **ICU Medical, Inc.**

2021422874 SEAKR ENGINEERING, INC. The name of the applicant has been altered to **SEAKR Engineering, LLC.**

2021449330 LEAD TECHNOLOGIES, INC. The name of the applicant has been altered to **Apryse Software Corp.**

2022

2022470254 Zhejiang LeapEnergy Technology Co.,Ltd. ; ZHEJIANG LEAPMOTOR TECHNOLOGY CO., LTD The name of the applicant has been altered to **Zhejiang LeapPower Technology Co., Ltd.; ZHEJIANG LEAPMOTOR TECHNOLOGY CO., LTD**

2023

2023223287 SIERRA ENERGY The name of the applicant has been altered to **Sierra Energy Corporation**

2023225620 SIERRA ENERGY The name of the applicant has been altered to **Sierra Energy Corporation**

2023225669 SIERRA ENERGY The name of the applicant has been altered to **Sierra Energy Corporation**

2023378616 FLOCKOFF, LLC The name of the applicant has been altered to **Symterra, Inc.**

2024

2024904219 Bumby, Christopher; Percy, Aston; Marshall, Aaron The name of the applicant has been altered to **Bumby, C.; Percy, A.; Marshall, A.**

Notice of Intention to Amend under Section 105 pursuant to the Federal Court Rules

Australian Patent/Patent Application 2019446196 in the name(s) of Zhejiang Zhuji United Chemicals Co., Ltd.

Applications Open to Public Inspection

Name Index

- . (*) Title not in Roman characters
 . (**) Title not given

(71) Adobe Inc.
 (11) AU-A-2023282216
 (21) 2023282216 (22) 13.12.2023
 (54) REGION DETECTION FOR INTER-TWINING OF VECTOR OBJECTS
 (51) Int. Cl.
G06T 15/02 (2011.01)
G06T 1/00 (2006.01)
G06T 3/00 (2006.01)
G06T 15/04 (2011.01)
G06T 19/00 (2011.01)
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 (51) Int. Cl.
C01D 1/32 (2006.01)
B01D 9/02 (2006.01)
C25B 15/08 (2006.01)
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 (51) Int. Cl.
A61F 7/00 (2006.01)
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A61B 90/30 (2016.01)
F21V 23/04 (2006.01)
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 (54) CAGE SYSTEM, AND CHIP MANAGEMENT SYSTEM
 (51) Int. Cl.
G07F 17/32 (2006.01)
A63F 1/06 (2006.01)
A63F 3/00 (2006.01)
A63F 9/00 (2006.01)
G06K 19/04 (2006.01)
G06Q 50/34 (2012.01)
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C25B 1/04 (2021.01)
B60L 50/75 (2019.01)
H01M 16/00 (2006.01)
H01M 8/0656 (2016.01)
H01M 8/249 (2016.01)
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 (51) Int. Cl.
G07F 17/32 (2006.01)
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 63/514,862 21.07.23 US
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 (72) USS, Jeffrey; MARSTON, Daniel
 (74) James & Wells Intellectual Property

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A61N 5/06 (2006.01)
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H04W 56/00 (2009.01)
G06F 1/3206 (2019.01)
G06F 13/42 (2006.01)
H04J 3/06 (2006.01)
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A61D 1/02 (2006.01)
A01K 37/00 (2006.01)
A01K 45/00 (2006.01)
A61D 3/00 (2006.01)
 (31) LU504788 (32) 21.07.23 (33) LU
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(51) Int. Cl.
A61K 33/30 (2006.01)
A61K 9/00 (2006.01)
A61K 9/08 (2006.01)
A61K 31/714 (2006.01)
A61K 33/04 (2006.01)
A61K 33/32 (2006.01)
A61K 33/34 (2006.01)
A61K 47/10 (2017.01)
A61K 47/24 (2006.01)
A61P 3/02 (2006.01)
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(72) NANJAN, Karthigeyan
(74) Stephen R Parker
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(54) IMPROVED STERILE INJECTABLE FORMULATIONS AND A METHOD FOR THEIR PREPARATION
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A61K 33/30 (2006.01)
A61K 9/00 (2006.01)
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A61K 31/714 (2006.01)
A61K 33/04 (2006.01)
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E06B 3/30 (2006.01)
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A63F 13/285 (2014.01)
A61N 1/00 (2006.01)
A63F 13/24 (2014.01)
A63F 13/50 (2014.01)
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G06F 3/01 (2006.01)
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B60N 2/28 (2006.01)
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A61P 31/14 (2006.01)
C12N 7/00 (2006.01)
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E21C 41/18 (2006.01)
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E21F 7/00 (2006.01)
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G05D 1/43 (2024.01)
A01B 69/00 (2006.01)
G01C 21/00 (2006.01)
G05D 1/00 (2006.01)
G06T 1/00 (2006.01)
G06T 7/246 (2017.01)
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H04S 7/00 (2006.01)
G06F 3/01 (2006.01)
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G06Q 40/04 (2012.01)
G06F 16/2455 (2019.01)
G06F 16/907 (2019.01)
G06Q 10/087 (2023.01)
G06Q 30/0601 (2023.01)
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A61K 31/00 (2006.01)
A61K 31/40 (2006.01)
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A61P 35/00 (2006.01)
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C12Q 1/6869 (2018.01)
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(51) Int. Cl.
G05B 23/02 (2006.01)
B01D 46/44 (2006.01)
F24F 11/74 (2018.01)
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A61M 16/00 (2006.01)
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(11) AU-A-2023270306
(21) 2023270306 (22) 23.11.2023
(54) Scalable in-vehicle video system and signal control apparatus
(51) Int. Cl.
H04N 13/204 (2018.01)
H04N 13/10 (2018.01)
H04N 21/4223 (2011.01)
(31) 63/527509 (32) 18.07.23 (33) US
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(74) A.P.T. Patent and Trade Mark Attorneys
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(11) AU-A-2023274162
(21) 2023274162 (22) 30.11.2023
(54) Sensor device and operating method thereof
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- (51) Int. Cl.
G06V 20/40 (2022.01)
F41C 33/02 (2006.01)
G08B 21/18 (2006.01)
H04W 84/18 (2009.01)
(31) 63/527509 (32) 18.07.23 (33) US
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(74) A.P.T. Patent and Trade Mark Attorneys
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(51) Int. Cl.
C07H 15/12 (2006.01)
C07C 231/12 (2006.01)
C07C 237/08 (2006.01)
C07F 7/18 (2006.01)
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H01S 5/12 (2021.01)
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(11) AU-A-2024204554
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G01N 27/22 (2006.01)
A61B 5/107 (2006.01)
A61N 1/04 (2006.01)
(31) GB2311057.0 (32) 19.07.23 (33) GB
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(51) Int. Cl.

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(74) Pizzzeys Patent and Trade Mark Attorneys Pty Ltd

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G16H 50/20 (2018.01)
A61B 5/00 (2006.01)
G16H 10/00 (2018.01)
G16H 20/00 (2018.01)
G16H 20/30 (2018.01)
G16H 20/70 (2018.01)
G16H 50/30 (2018.01)
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(74) Griffith Hack

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(54) Powered fastener driving tools and clean lubricants therefor
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B25C 1/04 (2006.01)
B25C 1/08 (2006.01)
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(74) Davies Collison Cave Pty Ltd

(71) InfraBuild Australia Pty Ltd
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E04C 5/03 (2006.01)
C22C 38/02 (2006.01)
C22C 38/04 (2006.01)
E04C 5/06 (2006.01)
B21B 1/16 (2006.01)
C22C 38/42 (2006.01)
C22C 38/44 (2006.01)
C22C 38/46 (2006.01)
C22C 38/58 (2006.01)
G01L 1/22 (2006.01)
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(51) Int. Cl.
G06F 16/245 (2019.01)
G06N 3/08 (2023.01)

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(72) ZHANG, Jiaxin; DAS, Kamalika; KUMAR, Sricharan
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(21) 2024266886 **(22)** 19.07.2024
(54) EXOTHERMIC IRON COMPOUNDS FOR PRODUCING IRON OXIDE PELLETS
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C21B 3/02 (2006.01)
C01G 49/02 (2006.01)
C21B 7/00 (2006.01)
C21B 13/00 (2006.01)
C22B 1/242 (2006.01)
C22B 1/245 (2006.01)
(31) 63/514,923 **(32)** 21.07.23 **(33)** US
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(21) 2024278104 **(22)** 19.07.2024
(54) A PROCESS FOR PRODUCING IRON OXIDE PELLETS
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C22B 1/242 (2006.01)
(31) 63/514,915 **(32)** 21.07.23 **(33)** US
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(11) AU-A-2024204043
(21) 2024204043 **(22)** 14.06.2024
(54) Quantum collimation method for atomic beam, quantum collimator for atomic beam, atomic interferometer, and atomic gyroscope
(51) Int. Cl.
G21K 1/02 (2006.01)
G01B 9/02 (2022.01)
G01C 19/62 (2006.01)
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(51) Int. Cl.
E04G 23/02 (2006.01)
E04D 5/06 (2006.01)
E04D 7/00 (2006.01)
E04D 3/16 (2006.01)

E04D 15/00 (2006.01)
E04D 15/07 (2006.01)
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(21) 2024204927 **(22)** 18.07.2024
(54) Shoe device with dual stadium arch bimodal structure for rapid entry and release
(51) Int. Cl.
A43B 3/12 (2006.01)
A43B 23/00 (2006.01)
(31) 18/224,109 **(32)** 20.07.23 **(33)** US
(43) 06.02.2025
(72) Kyle, Kentigern
(74) Kentigern Kyle

(71) LG ELECTRONICS INC.
(11) AU-A-2025200307
(21) 2025200307 **(22)** 16.01.2025
(54) APPARATUS FOR TREATING LAUNDRY
(51) Int. Cl.
D06F 37/26 (2006.01)
D06F 37/22 (2006.01)
D06F 37/30 (2020.01)
D06F 37/40 (2006.01)
D06F 39/04 (2006.01)
D06F 58/08 (2006.01)
D06F 58/26 (2006.01)
H02K 1/16 (2006.01)
H02K 1/27 (2022.01)
H02K 7/116 (2006.01)
(43) 06.02.2025
(62) 2021336355
(72) KIM, Hyeonjoong; CHO, Hongjun; KIM, Hyojun; KWON, Oshin; HWANG, Yangguk; LEE, Hyuksoo; LEE, Yeonju
(74) Dentons Patent Attorneys Australasia Limited

(71) MacDon Industries Ltd
(11) AU-A-2024204911
(21) 2024204911 **(22)** 17.07.2024
(54) SKID SHOE FOR AN AGRICULTURAL HEADER
(51) Int. Cl.
A01D 41/14 (2006.01)
(31) 18/223,071 **(32)** 18.07.23 **(33)** US
(43) 06.02.2025
(72) NIGON, Cyrus; CHRIST, Reid; HUNDT, Karl Bernard
(74) IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

(71) Manitou Italia S.r.l.
(11) AU-A-2024204699
(21) 2024204699 **(22)** 08.07.2024
(54) Safety system for working machine
(51) Int. Cl.
B66C 23/90 (2006.01)
B66C 13/20 (2006.01)
B66F 17/00 (2006.01)

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E02F 9/24 (2006.01)
(31) 102023000015342 **(32)** 21.07.23 **(33)** IT
(43) 06.02.2025
(72) IOTTI, Marco
(74) GLMR

(71) Manitou Italia S.r.l.
(11) AU-A-2024204797
(21) 2024204797 **(22)** 11.07.2024
(54) Safety system for working machine
(51) Int. Cl.
B66C 23/90 (2006.01)
B66C 13/12 (2006.01)
B66C 13/16 (2006.01)
(31) 102023000015345 **(32)** 21.07.23 **(33)** IT
(43) 06.02.2025
(72) IOTTI, Marco
(74) GLMR

(71) Maytronics Ltd.
(11) AU-A-2024204974
(21) 2024204974 **(22)** 19.07.2024
(54) Navigation of dynamic pool equipment
(51) Int. Cl.
G01C 21/20 (2006.01)
E04H 4/16 (2006.01)
G05D 1/648 (2024.01)
(31) 304622 **(32)** 20.07.23 **(33)** IL
(43) 06.02.2025
(72) GOLDENBERG, Gilad; LERNER, Nachum; HERSZENHAUT, Leo
(74) PHILLIPS ORMONDE FITZPATRICK

(71) Next Science IP Holdings Pty Ltd
(11) AU-A-2025200400
(21) 2025200400 **(22)** 21.01.2025
(54) COMPOSITIONS AND METHODS FOR TREATING INTERVERTEBRAL DISCS
(51) Int. Cl.
A61K 31/4425 (2006.01)
A61K 31/14 (2006.01)
A61K 47/10 (2017.01)
A61K 47/12 (2006.01)
A61P 19/00 (2006.01)
(43) 06.02.2025
(62) 2018367660
(72) MYNTTI, Matthew F.
(74) Dark IP

(71) Ocado Innovation Limited
(11) AU-A-2025200289
(21) 2025200289 **(22)** 15.01.2025
(54) Robotic service device and handling method
(51) Int. Cl.
B65G 1/04 (2006.01)
B65G 1/06 (2006.01)
(43) 06.02.2025
(62) 2022203751
(72) FRYER, Mark; INGRAM-TEDD, Andy; SHAIKH, Siddique; LINDBO, Sverker
(74) Griffith Hack

(71) OneFul Health, Inc.
(11) AU-A-2025200374

(21) 2025200374 **(22)** 17.01.2025
(54) METHOD AND SYSTEM FOR MAKING PERSONALIZED NUTRITIONAL AND PHARMACEUTICAL FORMULATIONS USING ADDITIVE MANUFACTURING
(51) Int. Cl.
A61K 9/00 (2006.01)
A23P 10/28 (2016.01)
A61J 3/00 (2006.01)
A61K 9/06 (2006.01)
A61K 9/16 (2006.01)
(43) 06.02.2025
(62) 2019250911
(72) HUDSON Jr., Edison Thurman; NOEL III, Lloyd Staton; HUGHES, Robert Eugene
(74) RNB IP PTY LTD

(71) POVIVA CORP.
(11) AU-A-2024202439
(21) 2024202439 **(22)** 20.02.2024
(54) COMPOSITIONS AND METHODS FOR TREATING EPILEPSY
(51) Int. Cl.
A61K 31/05 (2006.01)
A61K 47/04 (2006.01)
A61K 47/28 (2006.01)
A61K 47/36 (2006.01)
A61K 47/44 (2017.01)
A61P 25/08 (2006.01)
(31) 18/225,227 **(32)** 24.07.23 **(33)** US
18/225,234 24.07.23 US
18/225,244 24.07.23 US
(43) 06.02.2025
(72) DOCHERTY, John; BUNKA, Christopher, Andrew
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) POVIVA CORP.
(11) AU-A-2024202475
(21) 2024202475 **(22)** 20.02.2024
(54) COMPOSITIONS AND METHODS FOR TREATING EPILEPSY
(51) Int. Cl.
A61K 31/05 (2006.01)
A61K 47/02 (2006.01)
A61K 47/28 (2006.01)
A61K 47/44 (2017.01)
A61P 25/08 (2006.01)
(31) 18/225,227 **(32)** 24.07.23 **(33)** US
18/225,234 24.07.23 US
18/255,244 24.07.23 US
(43) 06.02.2025
(72) DOCHERTY, John; BUNKA, Christopher, Andrew
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) POVIVA CORP.
(11) AU-A-2024202518
(21) 2024202518 **(22)** 20.02.2024
(54) COMPOSITIONS AND METHODS FOR TREATING EPILEPSY
(51) Int. Cl.
A61K 31/05 (2006.01)
A61K 47/02 (2006.01)
A61K 47/28 (2006.01)
A61K 47/44 (2017.01)

A61P 25/08 (2006.01)
(31) 18/225,252 **(32)** 24.07.23 **(33)** US
(43) 06.02.2025
(72) DOCHERTY, John; BUNKA, Christopher, Andrew
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) POVIVA CORP.
(11) AU-A-2024202447
(21) 2024202447 **(22)** 20.02.2024
(54) COMPOSITIONS AND METHODS FOR TREATING EPILEPSY
(51) Int. Cl.
A61K 31/05 (2006.01)
A61K 47/02 (2006.01)
A61K 47/26 (2006.01)
A61K 47/28 (2006.01)
A61K 47/44 (2017.01)
A61P 25/08 (2006.01)
(31) 18/225,227 **(32)** 24.07.23 **(33)** US
18/225,234 24.07.23 US
18/225,244 24.07.23 US
(43) 06.02.2025
(72) DOCHERTY, John; BUNKA, Christopher, Andrew
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

PT ESG NEW ENERGY MATERIAL see PT QMB NEW ENERGY MATERIALS
(21) 2023446718

(71) PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446721
(21) 2023446721 **(22)** 30.06.2023
(54) COMBINED HEAT EXCHANGE SYSTEM FOR LATERITE-NICKEL ORE LEACHING FLASH TANKS AND PRE-HEATERS
(51) Int. Cl.
C22B 3/04 (2006.01)
B01D 3/06 (2006.01)
B01J 19/24 (2006.01)
C22B 23/00 (2006.01)
F22B 3/04 (2006.01)
F28C 3/06 (2006.01)
(43) 06.02.2025
(72) BRODJONEGORO, Satrio Soemantri; XU, Kaihua; WANALDI, Rizky; AJI, Tegar Mukti; BAKING, Aad Alief Rasyidi; HASIBUAN, Andi Syaputra; RAHMADI, Piyan; PENG, Yaguang; SINAGA, Arnaldo Marulitua
(74) Madderns Pty Ltd

(71) PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446733
(21) 2023446733 **(22)** 30.06.2023
(54) PROCESS FOR TREATING WASTEWATER IN PREPARATION

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PROCESS OF COBALT-NICKEL HYDROXIDE
(51) Int. Cl.
C22B 9/00 (2006.01)
C02F 1/52 (2023.01)
C02F 1/60 (2023.01)
C02F 1/62 (2023.01)
C02F 1/64 (2023.01)
C02F 1/66 (2023.01)
C02F 1/70 (2023.01)
C02F 1/72 (2023.01)
(43) 06.02.2025
(72) BRODJONEGORO, Satryo Soemantri; XU, Kaihua; WANALDI, Rizky; HASIBUAN, Andi Syaputra; AJI, Tegar Mukti; RAHMADI, Piyan; SALIM, Emil; YAN, Xiaodong
(74) Madderns Pty Ltd

PT ESG NEW ENERGY MATERIAL see PT QMB NEW ENERGY MATERIALS
(21) 2023446736

PT ESG NEW ENERGY MATERIAL see PT QMB NEW ENERGY MATERIALS
(21) 2023446740

(71) PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446741
(21) 2023446741 (22) 30.06.2023
(54) DEVICE FOR PREPARING LIME-STONE SLURRY AND CALCIUM HYDROXIDE FOR LATERITE-NICKEL ORE HYDROMETALLURGY
(51) Int. Cl.
B01F 35/22 (2022.01)
B02C 23/02 (2006.01)
C22B 23/00 (2006.01)
(43) 06.02.2025
(72) BRODJONEGORO, Satryo Soemantri; XU, Kaihua; PENG, Yaguang; WANALDI, Rizky; AJI, Tegar Mukti; HASIBUAN, Andi Syaputra; KRISTIYANTO, Evan Wahyu; SINAGA, Arnaldo Marulitua
(74) Madderns Pty Ltd

PT ESG NEW ENERGY MATERIAL see PT QMB NEW ENERGY MATERIALS
(21) 2023446742

(71) PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446744
(21) 2023446744 (22) 29.06.2023
(54) HIGH-PRESSURE REACTOR
(51) Int. Cl.
B01F 27/192 (2022.01)
B01F 27/1125 (2022.01)
B01F 27/113 (2022.01)
B01J 8/10 (2006.01)

C22B 3/08 (2006.01)
C22B 23/00 (2006.01)
(43) 06.02.2025
(72) BRODJONEGORO, Satryo Soemantri; XU, Kaihua; WANG, Yi; KRISTIYANTO, Evan Wahyu; BAKING, Aad Alief Rasyidi; AJI, Tegar Mukti; WANALDI, Rizky; HASIBUAN, Andi Syaputra; SINAGA, Arnaldo Marulitua
(74) Madderns Pty Ltd

PT ESG NEW ENERGY MATERIAL see PT QMB NEW ENERGY MATERIALS
(21) 2023449907

PT GEM INDONESIA NEW ENERGY MATERIALS see PT QMB NEW ENERGY MATERIALS
(21) 2023446718

PT GEM INDONESIA NEW ENERGY MATERIALS see PT ESG NEW ENERGY MATERIAL
(21) 2023446721

PT GEM INDONESIA NEW ENERGY MATERIALS see PT ESG NEW ENERGY MATERIAL
(21) 2023446733

PT GEM INDONESIA NEW ENERGY MATERIALS see PT QMB NEW ENERGY MATERIALS
(21) 2023446736

PT GEM INDONESIA NEW ENERGY MATERIALS see PT QMB NEW ENERGY MATERIALS
(21) 2023446740

PT GEM INDONESIA NEW ENERGY MATERIALS see PT ESG NEW ENERGY MATERIAL
(21) 2023446741

PT GEM INDONESIA NEW ENERGY MATERIALS see PT QMB NEW ENERGY MATERIALS
(21) 2023446742

PT GEM INDONESIA NEW ENERGY MATERIALS see PT ESG NEW ENERGY MATERIAL
(21) 2023446744

PT GEM INDONESIA NEW ENERGY MATERIALS see PT QMB NEW ENERGY MATERIALS
(21) 2023449907

(71) PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS

(11) AU-A-2023446718
(21) 2023446718 (22) 03.07.2023
(54) EQUIPMENT SYSTEM FOR PREPARING NEW-ENERGY NICKEL-COBALT-MANGANESE RAW MATERIAL FROM LATERITIC NICKEL ORE

(51) Int. Cl.
C22B 23/00 (2006.01)
C22B 3/04 (2006.01)
C22B 3/20 (2006.01)
(43) 06.02.2025
(72) XU, Kaihua; BRODJONEGORO, Satryo Soemantri; PENG, Yaguang; AJI, Tegar Mukti; WANALDI, Rizky; HASIBUAN, Andi Syaputra; KRISTIYANTO, Evan Wahyu; BAKING, Aad Alief Rasyidi; SINAGA, Arnaldo Marulitua
(74) Madderns Pty Ltd

PT QMB NEW ENERGY MATERIALS see PT ESG NEW ENERGY MATERIAL
(21) 2023446721

PT QMB NEW ENERGY MATERIALS see PT ESG NEW ENERGY MATERIAL
(21) 2023446733

(71) PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS

(11) AU-A-2023446736
(21) 2023446736 (22) 03.07.2023
(54) METHOD FOR IMPROVING PARTICLE SIZE AND MORPHOLOGY OF NEUTRALIZER FOR HYDROMETALLURGICAL TREATMENT OF LATERITIC NICKEL ORE

(51) Int. Cl.
C22B 3/20 (2006.01)
C22B 23/00 (2006.01)
(43) 06.02.2025
(72) XU, Kaihua; BRODJONEGORO, Satryo Soemantri; AJI, Tegar Mukti; WANALDI, Rizky; HASIBUAN, Andi Syaputra; RAHMADI, Piyan; ROHMAWATI, Ulfi; LIU, Wenzhe
(74) Madderns Pty Ltd

(71) PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS

(11) AU-A-2023446740
(21) 2023446740 (22) 30.06.2023
(54) SHORT-PROCESS NICKEL-COBALT-MANGANESE CO-EXTRACTION PROCESS FOR HYDROMETALLURGY OF LATERITIC NICKEL ORE

(51) Int. Cl.
C22B 23/00 (2006.01)
C22B 3/16 (2006.01)

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(43) 06.02.2025
(72) XU, Kaihua; BRODJONEGORO, SATRYO SOEMANTRI; LIU, Wei; AJI, TEGAR MUKTI; WANALDI, RIZKY; RAHMADI, PIYAN; SALIM, EMIL; HASIBUAN, ANDI SYAPUTRA
(74) Madderns Pty Ltd

**PT QMB NEW ENERGY MATERIALS see
PT ESG NEW ENERGY MATERIAL**
(21) 2023446741

(71) PT QMB NEW ENERGY MATERIALS;
PT ESG NEW ENERGY MATERIAL;
GEM CO., LTD.; PT GEM INDONESIA
NEW ENERGY MATERIALS
(11) AU-A-2023446742
(21) 2023446742 (22) 29.06.2023
(54) LATERITIC NICKEL ORE HYDROMETALLURGY PRECIPITATION SYSTEM
(51) Int. Cl.
C22B 3/20 (2006.01)
C22B 3/04 (2006.01)
(43) 06.02.2025
(72) XU, Kaihua; BRODJONEGORO, Satryo Soemantri; WANALDI, Rizky; AJI, Tegar Mukti; HASIBUAN, Andi Syaputra; KRISTIYANTO, Evan Wahyu; MUZAY-ADAH, Nurul Lailatul; LIU, WENZE; SIN-AGA, Arnaldo Marulitua
(74) Madderns Pty Ltd

**PT QMB NEW ENERGY MATERIALS see
PT ESG NEW ENERGY MATERIAL**
(21) 2023446744

(71) PT QMB NEW ENERGY MATERIALS;
PT ESG NEW ENERGY MATERIAL;
GEM CO., LTD.; PT GEM INDONESIA
NEW ENERGY MATERIALS
(11) AU-A-2023449907
(21) 2023449907 (22) 29.06.2023
(54) SYSTEM AND METHOD FOR REGULATING AI PRECIPITATION AMOUNT DURING HIGH-PRESSURE ACID LEACHING OF LATERITE NICKEL ORE
(51) Int. Cl.
C22B 23/00 (2006.01)
C22B 3/02 (2006.01)
C22B 3/06 (2006.01)
(43) 06.02.2025
(72) BRODJONEGORO, Satryo Soemantri; XU, Kaihua; AJI, Tegar Mukti; WANALDI, Rizky; HASIBUAN, Andi Syaputra; KRISTIYANTO, Evan Wahyu; SALIM, Emil; WANG, Yi
(74) Madderns Pty Ltd

(71) Punch International Trust
(11) AU-A-2024204842
(21) 2024204842 (22) 13.07.2024
(54) Coupling arrangement for use with an exercise or training aid
(51) Int. Cl.
A63B 69/22 (2006.01)

A63B 21/00 (2006.01)
F16F 3/02 (2006.01)
F16F 15/04 (2006.01)
(31) 2023902252 (32) 13.07.23 (33) AU
(43) 06.02.2025
(72) Townhill, Bruce
(74) Integrated IP

(71) Repost Limited
(11) AU-A-2024200002
(21) 2024200002 (22) 02.01.2024
(54) Fastener Extractor
(51) Int. Cl.
B25C 11/02 (2006.01)
B25J 9/00 (2006.01)
B25J 9/16 (2006.01)
B25J 11/00 (2006.01)
B25J 13/08 (2006.01)
(31) 801976 (32) 18.07.23 (33) NZ
(43) 06.02.2025
(72) Coppel, Gregory; Te Heu Heu, Tom
(74) IPiphany Limited

(71) RIGHT GROUP CENTRAL CO., LTD.
(11) AU-A-2024204532
(21) 2024204532 (22) 29.06.2024
(54) HANGING RACK TYPE SCREEN PROTECTOR
(51) Int. Cl.
G06F 1/16 (2006.01)
G06F 21/82 (2013.01)
(31) 112126779 (32) 18.07.23 (33) TW
(43) 06.02.2025
(72) LI, Chuan-En
(74) Arceo IP

(71) Rodriguez, R.
(11) AU-A-2024204798
(21) 2024204798 (22) 11.07.2024
(54) METHODS AND SYSTEMS FOR ENHANCING LIVENESS DETECTION OF IMAGE DATA
(51) Int. Cl.
G06V 40/40 (2022.01)
G06F 21/32 (2013.01)
G06N 3/08 (2023.01)
G06V 10/44 (2022.01)
G06V 40/16 (2022.01)
(31) 18/356,791 (32) 21.07.23 (33) US
(43) 06.02.2025
(72) Rodriguez, Raphael
(74) Wallington-Dummer

ross, s. see john ross, t.
(21) 2024205005

(71) SHENZHEN MANGO SCIENCE AND TECHNOLOGY INNOVATION CO., LTD.
(11) AU-A-2023449906
(21) 2023449906 (22) 19.07.2023
(54) LIGHTING EFFECT CONTROL METHOD, ELECTRONIC DEVICE, AND STORAGE MEDIUM
(51) Int. Cl.
H05B 47/12 (2020.01)

A63J 17/00 (2006.01)
H04R 1/04 (2006.01)
H04R 1/20 (2006.01)
(43) 06.02.2025
(72) WU, Ji
(74) Remarkable IP

(71) SK Innovation Co., Ltd.
(11) AU-A-2024204324
(21) 2024204324 (22) 25.06.2024
(54) APPARATUS FOR CONTROLLING AMMONIA FUEL CELL VEHICLE AND METHOD FOR CONTROLLING THE SAME
(51) Int. Cl.
G05B 13/02 (2006.01)
H01M 8/04537 (2016.01)
H01M 8/04746 (2016.01)
H01M 8/04992 (2016.01)
H01M 8/22 (2006.01)
(31) 10-2023-0095544 (32) 21.07.23 (33) KR
(43) 06.02.2025
(72) Park, Chan Saem; Kim, Jae Jeong; Bae, Sun Hyuk
(74) PHILLIPS ORMONDE FITZPATRICK

(71) SK Innovation Co., Ltd.
(11) AU-A-2024204806
(21) 2024204806 (22) 12.07.2024
(54) SYSTEM AND METHOD FOR MANAGING AMMONIA CRACKING PLANT
(51) Int. Cl.
G05B 13/04 (2006.01)
G05B 19/418 (2006.01)
G05B 23/02 (2006.01)
(31) 10-2023-0095480 (32) 21.07.23 (33) KR
(43) 06.02.2025
(72) Bae, Sun Hyuk; Kim, Jae Jeong; Park, Chan Saem
(74) PHILLIPS ORMONDE FITZPATRICK

(71) SK Innovation Co., Ltd.
(11) AU-A-2024204807
(21) 2024204807 (22) 12.07.2024
(54) SYSTEM AND METHOD FOR OPTIMIZING FLOW OF AMMONIA
(51) Int. Cl.
G05B 13/02 (2006.01)
G05B 13/04 (2006.01)
G05B 17/02 (2006.01)
(31) 10-2023-0095393 (32) 21.07.23 (33) KR
(43) 06.02.2025
(72) Bae, Sun Hyuk; Kim, Jae Jeong; Park, Chan Saem
(74) PHILLIPS ORMONDE FITZPATRICK

(71) SK Innovation Co., Ltd.
(11) AU-A-2024204970
(21) 2024204970 (22) 19.07.2024
(54) SYSTEM FOR DECOMPOSING AMMONIA AND METHOD OF DECOMPOSING AMMONIA
(51) Int. Cl.
H01M 8/0606 (2016.01)
C01B 3/04 (2006.01)
H01M 8/04014 (2016.01)
H01M 8/04082 (2016.01)

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(31) 10-2023-0095561 (32) 21.07.23 (33) KR
(43) 06.02.2025
(72) Park, Chan Saem; Kim, Jae Jeong;
Bae, Sun Hyuk
(74) PHILLIPS ORMONDE FITZPATRICK

(71) SK Innovation Co., Ltd.
(11) AU-A-2024204971
(21) 2024204971 (22) 19.07.2024
(54) APPARATUS FOR CONTROLLING
VEHICLE EQUIPPED WITH AMMONIA
FUEL CELL AND METHOD FOR OP-
ERATING THE SAME
(51) Int. Cl.
H01M 8/22 (2006.01)
B60K 15/03 (2006.01)
H01M 8/0267 (2016.01)
H01M 8/04082 (2016.01)
H01M 8/0606 (2016.01)
(31) 10-2023-0095542 (32) 21.07.23 (33) KR
(43) 06.02.2025
(72) Park, Chan Saem; Kim, Jae Jeong;
Bae, Sun Hyuk
(74) PHILLIPS ORMONDE FITZPATRICK

(71) SK Innovation Co., Ltd.
(11) AU-A-2024204975
(21) 2024204975 (22) 19.07.2024
(54) HYDROGEN CRACKING APPARAT-
US, HYDROGEN CRACKING METH-
OD USING THE SAME AND ENERGY
GENERATION SYSTEM
(51) Int. Cl.
B01J 19/00 (2006.01)
B01J 19/24 (2006.01)
C01B 3/04 (2006.01)
G05D 23/20 (2006.01)
G05D 23/30 (2006.01)
H01M 8/22 (2006.01)
(31) 10-2023-0095531 (32) 21.07.23 (33) KR
(43) 06.02.2025
(72) Park, Chan Saem; Kim, Jae Jeong;
Bae, Sun Hyuk
(74) PHILLIPS ORMONDE FITZPATRICK

(71) SK Innovation Co., Ltd.
(11) AU-A-2024204990
(21) 2024204990 (22) 19.07.2024
(54) ADSORPTION TOWER FOR CON-
TROLLING A FLUID SUPPLY ROUTE
TO A PLURALITY OF BEDS AND
OPERATING CONTROL METHOD
THEREOF
(51) Int. Cl.
B01D 53/04 (2006.01)
B01D 53/58 (2006.01)
B01D 53/96 (2006.01)
(31) 10-2023-0095501 (32) 21.07.23 (33) KR
(43) 06.02.2025
(72) Kim, Jae Jeong; Park, Chan Saem;
Bae, Sun Hyuk
(74) PHILLIPS ORMONDE FITZPATRICK

(71) SK Innovation Co., Ltd.
(11) AU-A-2024204991
(21) 2024204991 (22) 19.07.2024

(54) AMMONIA ADSORPTION TOWER OP-
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CONTROL METHOD USING THE
SAME
(51) Int. Cl.
G06N 3/02 (2006.01)
B01D 53/34 (2006.01)
B01D 53/58 (2006.01)
C01C 1/12 (2006.01)
G01N 30/00 (2006.01)
(31) 10-2023-0095511 (32) 21.07.23 (33) KR
(43) 06.02.2025
(72) Kim, Jae Jeong; Park, Chan Saem;
Bae, Sun Hyuk
(74) PHILLIPS ORMONDE FITZPATRICK

(71) Sterlite Technologies Limited
(11) AU-A-2024204889
(21) 2024204889 (22) 16.07.2024
(54) TOOL TO REMOVE DUST CAP OF
FIBER CONNECTOR
(51) Int. Cl.
G02B 6/36 (2006.01)
H01R 13/62 (2006.01)
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(31) 63/515,116 (32) 23.07.23 (33) US
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(43) 06.02.2025
(72) Alston, Eric Emmanuel
(74) LAMINAR IP PTY LTD

(71) Stryker Corporation
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(54) Antenna mounts for medical devices
(51) Int. Cl.
H01Q 1/22 (2006.01)
A61B 90/98 (2016.01)
A61N 1/39 (2006.01)
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(43) 06.02.2025
(72) Sohn, Dennis Changmin; Chester,
Steven M.; Choi, Kyujin
(74) Griffith Hack

(71) Sungrow (Shanghai) Co., Ltd.
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(54) Explosion-proof housing and electrical
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(51) Int. Cl.
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(31) 202321882148.3 (32) 17.07.23 (33) CN
(43) 06.02.2025
(72) WU, Zhengrong; ZHANG, Fanghui;
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(74) GLMR

(71) Taizhou Runjie Logistics Safety Equip-
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(54) SAFELY WINDING WEBBING AND
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(43) 06.02.2025
(72) Li, Chunzhi; Zhou, Jing; Yang, Xianwei;
Ma, Fengquan
(74) Ran Tao

(71) Takeda Pharmaceutical Company Lim-
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(11) AU-A-2025200386
(21) 2025200386 (22) 20.01.2025
(54) Evaluation, assays and treatment of
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(51) Int. Cl.
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(43) 06.02.2025
(62) 2021290331
(72) JOSEPH, Kusumam; KAPLAN, Allen P.
(74) Spruson & Ferguson

(71) Tencent America LLC
(11) AU-A-2025200357
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(54) METHOD AND APPARATUS FOR SIG-
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(43) 06.02.2025
(62) 2023202894
(72) XU, Xiaozhong; LI, Guichun; LIU, Shan
(74) Griffith Hack

(71) THE CGP LAB LIMITED
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(21) 2025200383 (22) 20.01.2025
(54) Animal, Fungal and Marine Sources of
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(51) Int. Cl.
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A61K 38/01 (2006.01)
A61K 38/05 (2006.01)
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(62) 2022408967
(72) GUAN, Jian
(74) Catalyst Intellectual Property

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<u>F24F 11 /-</u> 2024204938	<u>G06F 21 /-</u> 2024204532 2024204798	<u>H01M 16 /-</u> 2024287222	<u>No IPC Mark</u>
<u>F28C 3 /-</u> 2023446721	<u>G06F 3 /-</u> 2025200367 2025200414	<u>H01M 8 /-</u> 2024204324 2024204970 2024204971 2024204975 2024287222	
<u>F41C 33 /-</u> 2023274162	<u>G06K 19 /-</u> 2025200226	<u>H01Q 1 /-</u> 2024204875	
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<u>G01C 21 /-</u> 2024204216 2024204974	<u>G06Q 30 /-</u> 2024202941	<u>H02J 50 /-</u> 2025200125	
<u>G01L 1 /-</u> 2024205024	<u>G06Q 40 /-</u> 2024202941	<u>H02K 1 /-</u> 2025200307	
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<u>G01N 33 /-</u> 2025200383 2025200386	<u>G06T 15 /-</u> 2023282216	<u>H02S 20 /-</u> 2023251506	
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 (54) SYSTEMS, DEVICES, AND METHODS FOR PROVIDING HEAT TO ELECTROCHEMICAL CELLS AND ELECTROCHEMICAL CELL STACKS
 (51) Int. Cl.
H01M 10/613 (2014.01)
H01M 10/04 (2006.01)
H01M 10/42 (2006.01)
H01M 10/60 (2014.01)
H01M 10/647 (2014.01)
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H01M 50/105 (2021.01)
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H02J 7/00 (2006.01)
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 (87) WO2024/030913
 (31) 63/394,341 (32) 02.08.22 (33) US
 (43) 08.02.2024
 (72) HARTZOG, Chad Alan; YOUNG, Mark; CHEN, Junzheng; LEDBETTER, Kelly B.; FAN, Frank Yongzhen; LIU, Xiaoming
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) 24M TECHNOLOGIES, INC.
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 (21) 2023320391 (22) 01.08.2023
 (54) SERIES FORMATION OF ELECTROCHEMICAL CELLS
 (51) Int. Cl.
H02J 7/00 (2006.01)
H01M 10/00 (2006.01)
H02J 7/34 (2006.01)
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 (72) HARTZOG, Chad Alan; CHEN, Junzheng
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

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 (54) ELECTROCHEMICAL CELLS AND ELECTROCHEMICAL CELL STACKS WITH SERIES CONNECTIONS, AND METHODS OF PRODUCING, OP-

ERATING, AND MONITORING THE SAME
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 (72) HARTZOG, Chad Alan; YOUNG, Mark; CHEN, Junzheng; COBB, Kenneth Douglas
 (74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

(71) 7-ELEVEN, INC.
 (11) AU-A-2023308854
 (21) 2023308854 (22) 12.07.2023
 (54) ANOMALY DETECTION DURING FUEL DISPENSING OPERATIONS
 (51) Int. Cl.
B67D 7/08 (2010.01)
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 (31) 17/813,546 (32) 19.07.22 (33) US
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 (72) RAGAN, Boonchai, Matthew; AKULA, Sravan, Kumar Ayyappa; ROTHENBERG, Joshua, Michael; HOXHA, Jake, Yili; MULLURU, Deviprasad; GANDRA, Srikanth; ALBERT, Scott; SUBRAMANIAN, Srikanth
 (74) RnB IP Pty Ltd

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 (54) DETECTING LOCATIONS ASSOCIATED WITH ANOMALOUS FUEL DISPENSING OPERATIONS WITHIN A NETWORK OF GAS STATIONS
 (51) Int. Cl.
B67D 7/08 (2010.01)
G06Q 20/14 (2012.01)
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 (74) RnB IP Pty Ltd

(71) ABATA THERAPEUTICS, INC.
 (11) AU-A-2023321869
 (21) 2023321869 (22) 10.08.2023
 (54) STABLE REGULATORY T CELLS AND METHODS OF PRODUCTION
 (51) Int. Cl.
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A61K 35/17 (2015.01)
C07K 14/705 (2006.01)
 (87) WO2024/036287
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 (72) SOFEN, Stephen; VAN ELSAS, Andrea; RANSOHOFF, Richard; MOODLEY, Devapregasan; ZHANG, Yanbo; DRIJVERS, Jefte; ANTIPOV, Eugene; ADONI, Harish; XIA, Fang; KISUBIKA, Enoch; STRANGE, Christina
 (74) Davies Collison Cave Pty Ltd

(71) ABATA THERAPEUTICS, INC.
 (11) AU-A-2023321872
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 (54) CELL THERAPIES FOR MULTIPLE SCLEROSIS
 (51) Int. Cl.
A61K 35/17 (2015.01)
A61K 39/395 (2006.01)
A61K 45/06 (2006.01)
A61P 25/14 (2006.01)
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 (72) SOFEN, Stephen; VAN ELSAS, Andrea; RANSOHOFF, Richard; MOODLEY, Devapregasan; DRIJVERS, Jefte; ANTIPOV, Eugene; BIRNBAUM, Michael; SCHWEITZER, Lawrence; KISUBIKA, Enoch; STRANGE, Christina; XIA, Fang; ADONI, Harish; ZHANG, Yanbo
 (74) Davies Collison Cave Pty Ltd

(71) ABBVIE OPERATIONS SINGAPORE PTE. LTD.
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 (51) Int. Cl.
C07D 401/14 (2006.01)
A61K 31/517 (2006.01)
A61P 29/00 (2006.01)
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(71) ABIOMED, INC. (11) AU-A-2023309463 (21) 2023309463 (22) 21.07.2023 (54) METHOD TO LAMINATE EPTFE TO A NITINOL BRAID WITH A SMOOTH OUTER DIAMETER (51) Int. Cl. B29C 49/00 (2006.01) (87) WO2024/020177 (31) 63/391,384 (32) 22.07.22 (33) US (43) 25.01.2024 (72) KORKUCH, Christopher, Nason (74) Davies Collison Cave Pty Ltd	(71) AFINITI, LTD. (11) AU-A-2023289916 (21) 2023289916 (22) 21.06.2023 (54) COMMUNICATION SYSTEM NODE HAVING MULTIPLE MODULES AND A SHARED MEMORY (51) Int. Cl. G06F 12/02 (2006.01) G06F 12/06 (2006.01) H04M 3/51 (2006.01) G06F 15/173 (2006.01) (87) WO2023/250018	(71) ALCON INC. (11) AU-A-2023343280 (21) 2023343280 (22) 07.09.2023 (54) MEASURING REFRACTIVE ERROR OF THE HUMAN EYE USING OPTICAL COHERENCE TOMOGRAPHY (51) Int. Cl. A61B 3/103 (2006.01) A61B 3/10 (2006.01) (87) WO2024/057152 (31) 63/406,608 (32) 14.09.22 (33) US (43) 21.03.2024 (72) BOR, Zsolt; MALEK TABRIZI, Alireza (74) PHILLIPS ORMONDE FITZPATRICK
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 SARANGAPANI, Ramesh; RAPO-
 PORT, Tobias Jura
 (74) PHILLIPS ORMONDE FITZPATRICK

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 (51) Int. Cl.
A61B 3/13 (2006.01)
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 (72) ALLEN, Douglas; ASPNES, Eric
 (74) PHILLIPS ORMONDE FITZPATRICK

(71) AMGEN INC.
 (11) AU-A-2022479909
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 (51) Int. Cl.
A61K 31/505 (2006.01)
A61K 9/00 (2006.01)
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A61P 3/06 (2006.01)
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 (72) HOUK, Brett, E.; CARDONA, Panli
 (74) Spruson & Ferguson

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 (54) IMAGING-BASED SYSTEM FOR
 MONITORING QUALITY OF CELLS IN
 CULTURE
 (51) Int. Cl.
G06T 7/00 (2017.01)
G06T 1/40 (2006.01)
G06T 3/00 (2024.01)
H04W 24/08 (2009.01)
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 (43) 01.02.2024
 (72) CHAMBERS, Stuart; RAGUNTON, Brit-
 ney, L.; WAKEFIELD, Devin
 (74) Spruson & Ferguson

(71) AMGEN INC.
 (11) AU-A-2023343470
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 (54) BISPECIFIC MOLECULE STABILIZING
 COMPOSITION
 (51) Int. Cl.
C07K 16/28 (2006.01)
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 SOUTH AFRICA (PTY) LTD
 (11) AU-A-2023287627
 (21) 2023287627 (22) 15.06.2023
 (54) METHOD AND SYSTEM FOR ANA-
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E21C 41/30 (2006.01)
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 (72) ANDREW, Colin Murray; FINFER,
 Daniel Clark
 (74) FB Rice Pty Ltd

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 GENT DISSOLUTION AMOUNT IS IN-
 CREASED
 (51) Int. Cl.
D06F 33/34 (2020.01)
D06F 33/48 (2020.01)
D06F 103/04 (2020.01)
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 (72) ERDOGMUS, Onat; URUC, Burak;
 EFE, Servet; DALYAN, Erdeniz; BAT-
 MAN, Gizem
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(71) ARRAY TECH, INC.
 (11) AU-A-2023312643
 (21) 2023312643 (22) 16.06.2023
 (54) TORQUE TUBE INTERFACE WITH BI-
 FURCATED BEARING HOUSING
 (51) Int. Cl.
H02S 20/32 (2014.01)
F24S 30/425 (2018.01)
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 18/315,168 10.05.23 US
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 (72) SCHUKNECHT, Nathan; KRAUT-
 BAUER, Kevin
 (74) AJ PARK

(71) ARRAY TECH, INC.
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 (21) 2023317588 (22) 01.08.2023
 (54) PHOTOVOLTAIC MODULE MOUNT
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 (87) WO2024/030445
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 (43) 08.02.2024
 (72) SCHUKNECHT, Nathan; DE FRESART,
 Benjamin C.
 (74) AJ PARK

(71) ASSURANT, INC.
 (11) AU-A-2023294921
 (21) 2023294921 (22) 12.06.2023
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 SET GENERATION AND ACCESS
 CONTROL
 (51) Int. Cl.
G06F 21/60 (2013.01)
G06F 9/445 (2018.01)
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G06Q 10/0631 (2023.01)
G06Q 10/107 (2023.01)
G06Q 50/10 (2012.01)
H04L 9/40 (2022.01)
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 (72) MALADWALLA, Adil; BECERRA,
 Manuel; ALMONTE, JR., Gilberto Jose
 (74) AJ PARK

(71) ASTRAZENECA UK LIMITED; DAIICHI
 SANKYO COMPANY, LIMITED
 (11) AU-A-2023313120
 (21) 2023313120 (22) 27.07.2023
 (54) COMBINATION OF ANTIBODY-DRUG
 CONJUGATE AND BISPECIFIC
 CHECKPOINT INHIBITOR
 (51) Int. Cl.
A61K 47/68 (2017.01)
A61P 35/00 (2006.01)
 (87) WO2024/023750
 (31) 63/393,125 (32) 28.07.22 (33) US

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(74) Davies Collison Cave Pty Ltd
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- (71) ATLANTICA AGRICOLA, S.A.
(11) AU-A-2023310946
(21) 2023310946 (22) 18.07.2023
(54) CONDITIONING OF CORN STEEP LIQUOR TO PRODUCE HIGH ADDED VALUE ORGANIC MATTER FOR BIOSTIMULANT USE IN PLANTS
(51) Int. Cl.
A01N 25/02 (2006.01)
A01N 65/44 (2009.01)
A01P 21/00 (2006.01)
C05F 5/00 (2006.01)
C12N 1/20 (2006.01)
C12N 1/38 (2006.01)
(87) WO2024/018105
(31) P202230671 (32) 21.07.22 (33) ES
(43) 25.01.2024
(72) NAVARRO MORILLO, Iván; ZAVALA GONZÁLEZ, Ernesto Alejandro; PÉREZ MILLÁN, Rafael; TORTOSA MARTÍNEZ, José Luis; HERNÁNDEZ MARTÍNEZ, Kevin
(74) Wallington-Dummer
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- (71) BABCOCK INTEGRATED TECHNOLOGY LIMITED
(11) AU-A-2023314715
(21) 2023314715 (22) 13.07.2023
(54) AERIAL DELIVERY SYSTEM
(51) Int. Cl.
B64D 1/08 (2006.01)
(87) WO2024/022837
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(43) 01.02.2024
(72) DUTTON, Dan; THORNE, Kevin; BENNETT, Tom
(74) Halfords IP
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(54) BANDAGE OR ORTHOSIS WITH ABDOMINAL SUPPORT FUNCTION
(51) Int. Cl.
A61F 5/02 (2006.01)
A41C 1/10 (2006.01)
A61F 5/03 (2006.01)
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(31) 10 2022 117 881.1 (32) 18.07.22 (33) DE
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(72) GRUNDMANN, Madlin; BAUERFEIND-JOHNSON, Beatrix
(74) PHILLIPS ORMONDE FITZPATRICK
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(54) CONTROL METHOD FOR WIND TURBINE, AND RELATED APPARATUS
(51) Int. Cl.
F03D 7/00 (2006.01)
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(72) SUN, Tao; CHEN, Yong; HUANG, Xiaofang; SUN, Zhaochong
(74) Madders Pty Ltd
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- (71) BEIJING ROBOROCK TECHNOLOGY CO., LTD.
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(54) DUST BOX, CLEANING APPARATUS AND CLEANING SYSTEM
(51) Int. Cl.
A47L 11/30 (2006.01)
(87) WO2023/245948
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(72) ZHOU, Yongfei; DUAN, Chuanlin; OUYANG, Dalin; LI, Xing; ZHU, Mingyang
(74) Allens Patent & Trade Mark Attorneys
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- (71) BEYOND AIR, INC.
(11) AU-A-2023302931
(21) 2023302931 (22) 06.07.2023
(54) CANCER TREATMENT USING ULTRA-HIGH CONCENTRATION GASEOUS NITRIC OXIDE AND A CHECKPOINT INHIBITOR
(51) Int. Cl.
A61K 33/00 (2006.01)
A61P 35/00 (2006.01)
A61K 35/13 (2015.01)
A61K 39/00 (2006.01)
(87) WO2024/010850
(31) 63/358,540 (32) 06.07.22 (33) US
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(43) 11.01.2024
(72) CONFINO, Hila; GOLDSHTEIN, Matan; AVNIEL, Amir; LISI, Steven, A.
(74) James & Wells Intellectual Property
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(11) AU-A-2023309560
(21) 2023309560 (22) 18.07.2023
(54) RAPID CELL LYSIS AND NUCLEIC ACID RECOVERY
(51) Int. Cl.
C12Q 1/6806 (2018.01)
B01D 15/38 (2006.01)
C12N 15/10 (2006.01)
G01N 33/48 (2006.01)
G01N 33/487 (2006.01)
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(74) PHILLIPS ORMONDE FITZPATRICK
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- (71) BIOVERATIV USA INC.
(11) AU-A-2023286689
(21) 2023286689 (22) 23.06.2023
(54) METHODS FOR TREATING COMPLEMENT-MEDIATED DISEASES
(51) Int. Cl.
A61K 39/395 (2006.01)
A61K 39/00 (2006.01)
A61P 7/00 (2006.01)
A61P 7/06 (2006.01)
C07K 16/40 (2006.01)
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(31) 63/355,296 (32) 24.06.22 (33) US
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(43) 28.12.2023
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(74) Griffith Hack
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- (71) BITDEFENDER IPR MANAGEMENT LTD
(11) AU-A-2023328870
(21) 2023328870 (22) 21.08.2023
(54) AGGREGATE EVENT PROFILES FOR DETECTING MALICIOUS MOBILE APPLICATIONS
(51) Int. Cl.
G06F 21/55 (2013.01)
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(31) 17/821,493 (32) 23.08.22 (33) US
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(72) TIVADAR, Marius M.; BOCEREG, Alexandra S.; GOSA, Razvan G.
(74) PHILLIPS ORMONDE FITZPATRICK
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- (71) BLANCO GMBH + CO KG
(11) AU-A-2023321202
(21) 2023321202 (22) 11.08.2023
(54) INSTALLATION ELEMENT AND INSTALLATION SYSTEM
(51) Int. Cl.
A47B 77/04 (2006.01)
(87) WO2024/032857
(31) 10 2022 208 431.4 (32) 12.08.22 (33) DE
(43) 15.02.2024
(72) FUNKE, Thomas; HAMANN, Mirko; CLAUSEN, Thordt; TACK, Tobias
(74) PHILLIPS ORMONDE FITZPATRICK
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- (71) BLUE HALO BIOMEDICAL, LLC
(11) AU-A-2023311806
(21) 2023311806 (22) 23.06.2023
(54) COIL CATHETER, METHOD OF USE, AND METHOD OF MANUFACTURE
(51) Int. Cl.
A61M 25/00 (2006.01)

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(71) BOOZ ALLEN HAMILTON INC. (11) AU-A-2023299109 (21) 2023299109 (54) SYSTEM AND METHOD FOR NET- WORK PENETRATION TESTING (51) Int. Cl. G06F 21/57 (2013.01) G06F 21/35 (2013.01) G06F 21/52 (2013.01) H04L 65/75 (2022.01) (87) WO2024/006024 (31) 63/357,052 (43) 04.01.2024 (72) MROZINSKI, Christopher Laurence (74) Griffith Hack	(22) 02.06.2023 (32) 30.06.22 (33) US		
(71) BOSTON SCIENTIFIC NEUROMODU- LATION CORPORATION (11) AU-A-2023295198 (21) 2023295198 (54) SYSTEM FOR DITHERING NEUR- OSTIMULATION PARAMETERS (51) Int. Cl. A61N 1/36 (2006.01) (87) WO2023/244524 (31) 63/353,518 (43) 21.12.2023 (72) MARNFELDT, Goran N. (74) Spruson & Ferguson	(22) 12.06.2023 (32) 17.06.22 (33) US		
(71) BP P.L.C. (11) AU-A-2023323419 (21) 2023323419 (54) PRODUCTION OF SYNGAS FROM CARBON DIOXIDE THROUGH METH- ANOL (51) Int. Cl. C01B 3/26 (2006.01) C01B 3/50 (2006.01) C07C 29/151 (2006.01) (87) WO2024/033866 (31) 22190307.3 (43) 15.02.2024 (72) PATERSON, Alexander James; SUN- LEY, John Glenn (74) Spruson & Ferguson	(22) 10.08.2023 (32) 12.08.22 (33) EP		
(71) BP P.L.C. (11) AU-A-2023323420 (21) 2023323420 (54) FISCHER-TROPSCH PRODUCTION OF HYDROCARBONS FROM METH- ANOL (51) Int. Cl. C10G 2/00 (2006.01) C01B 3/22 (2006.01) C07C 29/151 (2006.01) (87) WO2024/033867 (31) 22190315.6	(22) 10.08.2023 (32) 12.08.22 (33) EP		
(71) BRISTOL-MYERS SQUIBB COMPANY (11) AU-A-2023325128 (21) 2023325128 (54) KRAS INHIBITORS (51) Int. Cl. C07D 403/14 (2006.01) A61P 35/00 (2006.01) C07D 471/04 (2006.01) C07D 487/04 (2006.01) C07D 487/18 (2006.01) C07D 498/00 (2006.01) C07D 519/00 (2006.01) (87) WO2024/040109 (31) 63/371,567 63/378,352 63/384,884 63/476,436 63/482,229 63/493,037 63/498,576 (43) 22.02.2024 (72) FINK, Brian Edward; NGU, Khehyong; SHIRUDE, Pravin S.; PANDA, Man- oranjani; JALAGAM, Prasada Rao; NANDA, Laxmi Narayan; BALIGAR, Vishweshwaraiah; SESHADRI, Balaji; SOOSAIRAJ, Excel Merlin; PALKOW- ITZ, Maximilian David; CHATTOPAD- HYAY, Amit Kumar; LAKKARAJU, Sirish Kaushik (74) AJ PARK	(22) 16.08.2023 (32) 16.08.22 (33) US 04.10.22 US 23.11.22 US 21.12.22 US 30.01.23 US 30.03.23 US 27.04.23 US		
(71) BYD COMPANY LIMITED (11) AU-A-2023312509 (21) 2023312509 (54) VEHICLE DRIVING DEVICE AND VEHICLE (51) Int. Cl. B60K 6/26 (2007.10) B60K 6/40 (2007.10) B60K 6/547 (2007.10) (87) WO2024/021716 (31) 202221963231.9 (43) 01.02.2024 (72) LI, Jiacheng; LUO, Jun; ZENG, Dong (74) Davies Collision Cave Pty Ltd	(22) 26.04.2023 (32) 27.07.22 (33) CN		
(71) CAAMTECH, INC. (11) AU-A-2023288538 (21) 2023288538 (54) TRYPTAMINE DERIVATIVES (51) Int. Cl. C07D 209/02 (2006.01) C07D 405/04 (2006.01) C07D 209/04 (2006.01) (87) WO2023/250465 (31) 63/355,130 63/388,367 63/368,190 63/368,193 63/368,194 (43) 28.12.2023 (72) CHADEAYNE, Andrew, R. (74) Allens Patent & Trade Mark Attorneys	(22) 23.06.2023 (32) 24.06.22 (33) US 12.07.22 US 12.07.22 US 12.07.22 US 12.07.22 US		
(71) CALIENT.AI INC. (11) AU-A-2023311137 (21) 2023311137 (54) MEMS MIRROR ARRAYS WITH RE- DUCED COUPLING BETWEEN MIR- RORS (51) Int. Cl. B81B 7/04 (2006.01) B81B 3/00 (2006.01) B81B 7/00 (2006.01) G02B 26/08 (2006.01) (87) WO2024/020329 (31) 63/391,667 18/352,357 (43) 25.01.2024 (72) HOCKING, Andrew; MILLER, Scott, A. (74) WRAYS PTY LTD	(22) 16.07.2023 (32) 22.07.22 (33) US 14.07.23 US		
(71) CANADIAN BLOOD SERVICES; UNI- VERSITY HEALTH NETWORK (11) AU-A-2023300707 (21) 2023300707 (54) PYRAZOLE DERIVATIVES FOR THE INHIBITION OF PHAGOCYTOSIS (51) Int. Cl. C07D 231/16 (2006.01) A61K 31/4155 (2006.01) A61K 31/427 (2006.01) A61K 31/454 (2006.01) A61P 7/00 (2006.01) C07D 231/12 (2006.01) C07D 231/14 (2006.01) C07D 403/04 (2006.01) C07D 409/14 (2006.01) C07D 417/12 (2006.01) (87) WO2024/000067 (31) 63/356,170 (43) 04.01.2024 (72) BRANCH, Donald R.; KOTRA, Lakshmi P.; LEWIS-BAKKER, Melissa (74) FB Rice Pty Ltd	(22) 28.06.2023 (32) 28.06.22 (33) US		
(71) CAPITAL ONE SERVICES, LLC (11) AU-A-2023305505 (21) 2023305505 (54) TECHNIQUES TO PROCESS CON- TACTLESS CARD FUNCTIONS IN A	(22) 13.07.2023		

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MULTIPLE BANKING SYSTEM ENVIRONMENT			(71) CATERPILLAR INC.			(43) 11.01.2024		
(51) Int. Cl.			(11) AU-A-2023301783			(72) SINN, Eric T.; WELLS, Corey M.; MC-CAFFREY, Brandon H.; ULRICH, IV, William J.		
G07F 7/08 (2006.01)			(21) 2023301783	(22) 22.06.2023		(74) Patent Attorney Services		
H04L 9/08 (2006.01)			(54) SYSTEMS AND METHODS FOR COLLISION AVOIDANCE FOR SHAPE CHANGING MACHINES					
G06Q 20/32 (2012.01)			(51) Int. Cl.					
(87) WO2024/015537			E02F 9/24 (2006.01)			(71) CELLINO BIOTECH, INC.		
(31) 63/388,859	(32) 13.07.22	(33) US	E02F 9/20 (2006.01)			(11) AU-A-2023324685		
63/405,749	12.09.22	US	E02F 9/26 (2006.01)			(21) 2023324685	(22) 15.08.2023	
18/207,831	09.06.23	US	(87) WO2024/011018			(54) SYSTEMS AND METHODS FOR CELL MANUFACTURING		
18/221,704	13.07.23	US	(31) 17/810,695	(32) 05.07.22	(33) US	(51) Int. Cl.		
(43) 18.01.2024			(43) 11.01.2024			G01N 15/02 (2024.01)		
(72) KOSHY, Bob Uni; BLOCKSOM, Jonathan; WOLF, Michael; BARRETT, Casey; OSBORN, Kevin; LUTZ, Wayne			(72) WEI, Mo; ZUO, Jun; MALEY, Jacob C.; POTHUGUNTI, Manoj			G01N 15/14 (2024.01)		
(74) Spruson & Ferguson			(74) Patent Attorney Services			G06N 3/088 (2023.01)		
						(87) WO2024/039688		
(71) CARESTREAM DENTAL LLC; TROPHY SAS			(71) CATERPILLAR INC.			(31) 63/373,026	(32) 19.08.22	(33) US
(11) AU-A-2023315795			(11) AU-A-2023304263			63/373,029	19.08.22	US
(21) 2023315795	(22) 27.07.2023		(21) 2023304263	(22) 22.06.2023		63/374,899	07.09.22	US
(54) METHOD, SYSTEM, AND COMPUTER PROGRAM FOR PERFORMING PERIODONTAL MEASUREMENTS FROM ULTRASOUND IMAGES			(54) PLANNED MAINTENANCE SCHEDULE SYNCHRONIZATION WITH ON-BOARD DISPLAY DEVICE			63/472,370	12.06.23	US
(51) Int. Cl.			(51) Int. Cl.			63/521,223	15.06.23	US
A61B 8/08 (2006.01)			G06Q 10/20 (2023.01)			63/371,491	15.08.22	US
A61B 8/12 (2006.01)			G07C 5/00 (2006.01)			63/371,614	16.08.22	US
(87) WO2024/025985			G07C 5/08 (2006.01)			63/371,730	17.08.22	US
(31) 22187632	(32) 28.07.22	(33) EP	(87) WO2024/011017			63/371,844	18.08.22	US
(43) 01.02.2024			(31) 17/859,966	(32) 07.07.22	(33) US	(43) 22.02.2024		
(72) CAPRI, Arnaud; GILLIBERT, Luc			(43) 11.01.2024			(72) WAGNER, Matthias; PILSMAKER, Catherine; LEE, Sangkyun; LURO, Scott; SULLIVAN, Matthew; BERLIN-UDI, Maya; AKSEL, Deniz; NAT-ALE, Jason; AIVIO, Suvi; AMENDUNI, Mariangela; PEREIRA, Arnaldo; MORGAN, Stefanie		
(74) Spruson & Ferguson			(72) BULLOCK, Robert Gerald; ABDUL WAHAB, Nasreen Banu; VAIRAPERUMAL, Ganesh; DUMPALA, Chandranth; KUMAR, Manish; GILBERT, Anish Jeba Justus; RAMESH VEERAN, Sooraj Veer			(74) Spruson & Ferguson		
			(74) Patent Attorney Services					
(71) CASALE SA			(71) CATERPILLAR INC.			(71) CENTURYLINK INTELLECTUAL PROPERTY LLC		
(11) AU-A-2023357342			(11) AU-A-2023304388			(11) AU-A-2023317491		
(21) 2023357342	(22) 05.10.2023		(21) 2023304388	(22) 19.06.2023		(21) 2023317491	(22) 28.07.2023	
(54) MELAMINE PROCESS WITH A TWO-STAGE PURIFICATION OF MELAMINE OFFGAS			(54) PREDICTING TRACK ASSEMBLY COMPONENT FAILURE USING DIRECT OIL CONTACT SENSOR DEVICE			(54) ENHANCED PRE-LOADING FOR EDGE GATEWAYS IN COMMUNICATIONS NETWORKS		
(51) Int. Cl.			(51) Int. Cl.			(51) Int. Cl.		
C07D 251/60 (2006.01)			G01M 17/007 (2006.01)			G06F 8/61 (2018.01)		
C07D 251/54 (2006.01)			F01M 11/12 (2006.01)			G06F 9/445 (2018.01)		
(87) WO2024/074656			F16N 29/04 (2006.01)			(87) WO2024/030348		
(31) 22200402.0	(32) 07.10.22	(33) EP	G01F 23/24 (2006.01)			(31) 63/370,144	(32) 02.08.22	(33) US
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(43) 11.04.2024			(31) 17/810,718	(32) 05.07.22	(33) US	(72) MOALEJI, Austin; RAMPALLI, Pavan		
(72) GAMBA, Simone			(43) 11.01.2024			(74) PHILLIPS ORMONDE FITZPATRICK		
(74) PHILLIPS ORMONDE FITZPATRICK			(72) GALAT, Michael S.; JOHANNSEN, Eric J.; AKINLUA, Temitope O.					
			(74) Patent Attorney Services			(71) CENTURYLINK INTELLECTUAL PROPERTY LLC		
(71) CATERPILLAR INC.			(71) CATERPILLAR INC.			(11) AU-A-2023320300		
(11) AU-A-2023299651			(11) AU-A-2023304391			(21) 2023320300	(22) 28.07.2023	
(21) 2023299651	(22) 12.05.2023		(21) 2023304391	(22) 23.06.2023		(54) SYSTEMS AND METHODS FOR MITIGATING DOMAIN NAME SYSTEM AMPLIFICATION ATTACKS		
(54) SYSTEMS AND METHODS FOR ASSET IDENTIFICATION STRING ERROR DETECTION AND CORRECTION			(54) ADAPTER AND TIP COUPLING SYSTEM			(51) Int. Cl.		
(51) Int. Cl.			(51) Int. Cl.			H04L 61/4511 (2022.01)		
G06Q 10/10 (2023.01)			E02F 9/28 (2006.01)			H04L 9/40 (2022.01)		
G06Q 10/20 (2023.01)			(87) WO2024/011026			(87) WO2024/030823		
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(31) 17/854,771	(32) 30.06.22	(33) US	18/338,207	20.06.23	US	(43) 08.02.2024		
(43) 04.01.2024						(72) WOODWORTH, John R.B.; BALLEW, Dean		
(72) KHAJAVI, Navid; MASON, James; RADAKOVIC, Daniela						(74) PHILLIPS ORMONDE FITZPATRICK		
(74) Patent Attorney Services								

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- (71) CHENGDU BRILLIANT INSPIRATION BIOTHERAPEUTICS CO., LTD
(11) AU-A-2023289707
(21) 2023289707 (22) 19.06.2023
(54) PEPTIDE INHIBITOR AND USE THEREOF
(51) Int. Cl.
C07K 7/08 (2006.01)
A61K 38/10 (2006.01)
A61P 35/00 (2006.01)
(87) WO2023/246703
(31) 202210727988.6 (32) 23.06.22 (33) CN
(43) 28.12.2023
(72) LI, Xiaomei; DING, Yi; JIANG, Qiu; CHEN, Rui
(74) James & Wells Intellectual Property
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- (71) CHINA PETROLEUM & CHEMICAL CORPORATION; SINOPEC (SHANGHAI) RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY CO., LTD.
(11) AU-A-2023325853
(21) 2023325853 (22) 17.08.2023
(54) POLYMER COMPOSITION AND PREPARATION METHOD THEREFOR, AND PRODUCT
(51) Int. Cl.
C08L 67/04 (2006.01)
C08G 63/02 (2006.01)
C08G 63/06 (2006.01)
C08G 63/08 (2006.01)
(87) WO2024/037580
(31) 202211002667.6 (32) 19.08.22 (33) CN
202210997325.6 19.08.22 CN
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(43) 22.02.2024
(72) LUO, Jiawei; WANG, James Hongxue; ZHOU, Bing; TIAN, Yuchuan; JIA, Qin
(74) Churchill Attorneys
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- (71) CHUGAI SEIYAKU KABUSHIKI KAISHA
(11) AU-A-2023304031
(21) 2023304031 (22) 03.07.2023
(54) COMBINATION DRUG
(51) Int. Cl.
A61K 45/06 (2006.01)
A61K 31/4184 (2006.01)
A61K 31/4427 (2006.01)
A61K 31/4523 (2006.01)
A61K 31/496 (2006.01)
A61K 31/498 (2006.01)
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A61K 31/517 (2006.01)
A61K 31/519 (2006.01)
A61K 31/537 (2006.01)
A61K 31/5377 (2006.01)
A61K 31/66 (2006.01)
A61P 35/00 (2006.01)
A61P 43/00 (2006.01)
(87) WO2024/009921
(31) 2022-107937 (32) 04.07.22 (33) JP
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(43) 11.01.2024
(72) FURUGAKI Ko
(74) FB Rice Pty Ltd
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- (71) CIRRUS DESIGN CORPORATION D/ B/A CIRRUS AIRCRAFT
(11) AU-A-2023299012
(21) 2023299012 (22) 20.06.2023
(54) PARACHUTE INFLATION CONTROL AND LOAD DISTRIBUTING LOOPS
(51) Int. Cl.
B64D 17/18 (2006.01)
B64D 17/02 (2006.01)
B64D 17/24 (2006.01)
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A61K 31/135 (2006.01)
A61K 31/131 (2006.01)
A61K 45/00 (2006.01)
A61P 3/00 (2006.01)
A61P 3/06 (2006.01)
A61P 3/08 (2006.01)
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G01N 15/06 (2024.01)
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C02F 1/461 (2023.01)
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VERSITÉ TOULOUSE III – PAUL
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C04B 28/08 (2006.01)
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PERFORMANCE IN FEEDLOT
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(51) Int. Cl.
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RINCKER, Phil; ALLEN, Janet B.;
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(71) ENZA ZADEN BEHEER B.V. (11) AU-A-2023297965 (21) 2023297965 (22) 26.06.2023 (54) RESISTANCE GENE AND LETTUCE PLANT RESISTANT TO FUSARIUM WILT (51) Int. Cl. A01H 5/12 (2018.01) A01H 6/14 (2018.01) (87) WO2024/002949 (31) PCT/ (32) 27.06.22 (33) EP EP2022/067580	(71) FIRST GREATER WESTERN LIMITED (11) AU-A-2023288120 (21) 2023288120 (22) 16.06.2023 (54) ELECTRIC RAIL VEHICLE CHARGING SYSTEM (51) Int. Cl. B60L 53/14 (2019.01) B60L 5/42 (2006.01) B60L 53/30 (2019.01)	(71) FLAGSHIP PIONEERING INNOVA- TIONS VI, LLC (11) AU-A-2023309588 (21) 2023309588 (22) 22.07.2023 (54) ANTIGEN BINDING MOLECULES TARGETING THYMIC STROMAL LYMPHOPOIETIN (TSLP) (51) Int. Cl. A61P 11/00 (2006.01) C07K 16/24 (2006.01) (87) WO2024/020590 (31) 63/369,152 (32) 22.07.22 (33) US 63/369,158 22.07.22 US 63/369,165 22.07.22 US 63/369,175 22.07.22 US

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				(72) THURLBY, Timothy; MACGIBBON, Alastair Kenneth Hugh; COYLE, Tracy Rosalia; WELMAN, Alan David		
				(74) AJ PARK		
(71)	FLUIDMASTER, INC.			(71) FUJIFILM CORPORATION		
(11)	AU-A-2023321591			(11) AU-A-2023311587		
(21)	2023321591 (22) 10.08.2023			(21) 2023311587 (22) 19.07.2023		
(54)	TOILET BOWL DISCHARGE ASSEMBLY			(54) METHOD FOR PRODUCING MESENCHYMAL STEM CELLS		
(51)	Int. Cl.			(51) Int. Cl.		
	E03D 11/16 (2006.01)			C12N 5/0775 (2010.01)		
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(72)	NGUYEN, Jack; ARKALGUD, Krishnaditya; WONG, Gabriel			A61L 27/40 (2006.01)		
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(54)	SUBSEA VALVE ACTUATION SYSTEM			(72) OGURA Izumi; NAKAMURA Kentaro		
(51)	Int. Cl.			(74) Griffith Hack		
	E21B 33/035 (2006.01)					
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(72)	ELLIS, Kyle; WITTRY, Nathan			(51) Int. Cl.		
(74)	WRAYS PTY LTD			F25B 47/02 (2006.01)		
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(54)	SUBSEA ACTUATION SYSTEM WITH RETRIEVABLE POSITION INDICATOR			(72) NAKATA, Shohei; KANEI, Kazuki		
(51)	Int. Cl.			(74) Spruson & Ferguson		
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(43)	01.02.2024			(54) MONITORING SLEEPING DISORDERS AND SYSTEM THEREOF		
(72)	ROKNE, Øyvind; BHAT, Deviprasad			(51) Int. Cl.		
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(71)	FONTERRA CO-OPERATIVE GROUP LIMITED			(87) WO2024/023212		
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(54) FLUID SPRAYER HAVING ACTIVE COOLING
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(54) SYSTEM AND METHOD FOR APPLYING A COATING MATERIAL TO A WEB
(51) Int. Cl.
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(72) KENZLO, Phillip; FONTAINE, Alan; SLOAT, Jeffrey, T.
(74) PHILLIPS ORMONDE FITZPATRICK

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(54) CARRIER FOR CONTAINERS
(51) Int. Cl.
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(72) SPITLER, Donald
(74) PHILLIPS ORMONDE FITZPATRICK

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(54) FIRE SUPPRESSANT
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(71) GUERBET; CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS); UNIVERSITE PARIS-SACLAY
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(54) RADIOPAQUE MONOMER AND EMBOLOSATION MICROSPHERES COMPRISING SAME
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(72) MOINE, Laurence; FRANCOIS, Baptiste; FOUGERE, Olivier; LOUGUET, Stéphanie
(74) FPA Patent Attorneys Pty Ltd

(71) HAINAN NORMAL UNIVERSITY
(11) AU-A-2023331399
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(54) MONOLITHIC INTEGRATED MULTI-SEGMENT CASCADE OPTICAL FREQUENCY COMB AND CHIP THEREOF
(51) Int. Cl.
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(72) QIAO, Zhongliang; QU, Yi; WAN, Haoran; YU, Wenjun; WENG, Dengqun; HOU, Xiaohu; WU, Menghao; HU, Ke; ZHAO, Zhibin; CHEN, Hao; LI, Zaijin; ZENG, Lina; LI, Lin; LIU, Guojun
(74) Remarkable IP

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(54) AN ENERGY DISTRIBUTION SYSTEM
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(72) AGUILERA MEDINA, Luis Antonio; BASSEM, Farag; DE OLIVEIRA SPIGOLON, Fabrício
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(71) HITACHI ENERGY LTD (11) AU-A-2023297023 (21) 2023297023 (22) 26.06.2023 (54) VEGETATION MANAGEMENT SYSTEM AND VEGETATION MANAGEMENT METHOD (51) Int. Cl. G06Q 10/00 (2023.01) G06Q 10/06 (2023.01) G06Q 10/0635 (2023.01) G06Q 50/02 (2024.01) (87) WO2024/002930 (31) 2022-104298 (32) 29.06.22 (33) JP (43) 04.01.2024 (72) ZHAO, Yu; YAMAMOTO, Tomonori (74) FB Rice Pty Ltd	(71) HOTSPOT THERAPEUTICS, INC. (11) AU-A-2023307165 (21) 2023307165 (22) 12.07.2023 (54) METHODS OF PREPARATION OF HETEROCYCLIC COMPOUNDS (51) Int. Cl. C07D 211/14 (2006.01) C07C 205/06 (2006.01) C07C 241/04 (2006.01) C07C 243/32 (2006.01) C07C 335/40 (2006.01) C07D 213/48 (2006.01) C07D 213/61 (2006.01) C07D 249/08 (2006.01) C07D 249/12 (2006.01) C07D 401/06 (2006.01) C07D 401/14 (2006.01) C07D 405/04 (2006.01) C07D 471/04 (2006.01) C07F 5/02 (2006.01) (87) WO2024/015861 (31) 63/388,344 (32) 12.07.22 (33) US (43) 18.01.2024 (72) LAWSON, Jon P.; CARSON, Ken; BI, Yingzhi (74) Pizzzeys Patent and Trade Mark Attorneys Pty Ltd	(71) HUAWEI TECHNOLOGIES CO., LTD. (11) AU-A-2022472704 (21) 2022472704 (22) 30.07.2022 (54) MULTI-USER EDMG AGGREGATE PDU STRUCTURE (51) Int. Cl. H04W 28/06 (2009.01) (87) WO2024/026581 (43) 08.02.2024 (72) XIN, Yan; DU, Rui; SUH, Jung Hoon; ABOUL-MAGD, Osama; AU, Kwok Shum (74) Halfords IP
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A61K 8/04 (2006.01)
A61K 8/31 (2006.01)
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A61Q 5/06 (2006.01)
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A61F 2/90 (2013.01)
D04C 1/06 (2006.01)
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C21B 3/02 (2006.01)
C01G 49/02 (2006.01)
C21B 7/00 (2006.01)
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(72) KELLY, Blair; SELIM, Karim; THOMPSON, Jim
(74) FB Rice Pty Ltd

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C22B 1/242 (2006.01)
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C09K 8/32 (2006.01)
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E21B 33/13 (2006.01)
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(74) Spruson & Ferguson

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(54) PROPULSION SYSTEM AND APPLICATIONS THEREOF
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B63H 11/10 (2006.01)
B63H 11/04 (2006.01)
F04F 5/02 (2006.01)
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(54) BACTERIA-TARGETING CAPSID PARTICLE, TREATMENT COMPOSITION, DISINFECTANT, FOOD, METHOD FOR ELIMINATING BACTERIA, STERILIZATION METHOD, METHOD FOR PREVENTING DECAY, METHOD FOR TREATING ANIMAL, METHOD FOR INTRODUCING GENE, METHOD FOR ADDING BACTERIA FUNCTION, METHOD FOR PRODUCING BACTERIA-TARGETING CAPSID PARTICLE, AND METHOD FOR PRODUCING NUCLEIC ACID FOR BACTERIA-TARGETING CAPSID PARTICLE
(51) Int. Cl.
C12N 7/01 (2006.01)
A61K 35/76 (2015.01)
A61K 48/00 (2006.01)
A61P 31/04 (2006.01)
C12N 15/31 (2006.01)
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(72) CUI, Longzhu; KIGA, Kotaro
(74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

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B62B 7/00 (2006.01)
B60B 9/26 (2006.01)
B60C 7/10 (2006.01)
B62B 9/18 (2006.01)
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(72) DAHLSTRÖM, Björn; SCHLAGMAN, Richard
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(71) JOHNSON MATTHEY HYDROGEN TECHNOLOGIES LIMITED
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(54) PROCESS AND MEMBRANE
(51) Int. Cl.
C25B 1/04 (2021.01)
C25B 9/23 (2021.01)
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C25B 13/08 (2006.01)
H01M 4/86 (2006.01)
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(72) BANGAY, William; BERNARDINI, Cecilia; STEVENS, James; ZALITIS, Chris
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A61P 35/00 (2006.01)
C07K 14/725 (2006.01)
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(74) AJ PARK

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(54) HAIR CLEANSER COMPOSITION, METHODS AND USES THEREOF
(51) Int. Cl.
A61K 8/41 (2006.01)
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(72) CAVACO PAULO, Artur Manuel; STALEY, Karis; SCHLAPP, Meagan
(74) FB Rice Pty Ltd

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(54) DETOX HAIR AND SCALP CLEANSER COMPOSITION, METHODS AND USES THEREOF
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A21D 2/08 (2006.01)
A21D 2/26 (2006.01)
A23K 20/147 (2016.01)
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C12N 9/96 (2006.01)
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(54) GLYCOSYL-MODIFIED FUSION PROTEIN, NUCLEIC ACID MOLECULE, EXPRESSION VECTOR, HOST CELL AND APPLICATIONS THEREOF
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A61K 39/00 (2006.01)
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C07K 19/00 (2006.01)
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F16K 1/46 (2006.01)
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A61F 13/49 (2006.01)
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(54) DETECTION SYSTEM FOR WORK SITE AND DETECTION METHOD FOR WORK SITE
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E02F 3/84 (2006.01)
G05D 1/43 (2024.01)
G06Q 50/08 (2012.01)
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G01S 13/931 (2020.01)
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(71) KONE CORPORATION
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B66B 1/46 (2006.01)
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(74) Murray Trento & Associates Pty Ltd
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B27F 7/38 (2006.01)
B65G 1/127 (2006.01)
B25C 5/16 (2006.01)
B65G 17/12 (2006.01)
B65G 17/18 (2006.01)
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B64G 3/00 (2006.01)
B64G 1/10 (2006.01)
G01S 7/41 (2006.01)
G01S 13/66 (2006.01)
G01S 13/72 (2006.01)
G01S 13/75 (2006.01)
G01S 13/76 (2006.01)
G01S 13/87 (2006.01)
G01S 13/933 (2020.01)
G06K 19/07 (2006.01)
H01Q 1/22 (2006.01)
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C08J 9/232 (2006.01)
B29C 44/00 (2006.01)
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B27N 3/04 (2006.01)
B27N 3/12 (2006.01)
C08L 1/02 (2006.01)
D04H 1/58 (2012.01)
D21C 9/00 (2006.01)
D21H 11/20 (2006.01)
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A61P 31/16 (2006.01)
C07K 7/08 (2006.01)
C07K 14/005 (2006.01)
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A01H 4/00 (2006.01)
C12M 3/00 (2006.01)
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C12N 5/0783 (2010.01)
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A61L 2/00 (2006.01)
A61J 1/10 (2006.01)
A61K 41/00 (2020.01)
A61K 41/17 (2020.01)
A61M 1/02 (2006.01)
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A61M 60/237 (2021.01)
A61M 60/414 (2021.01)
A61M 60/825 (2021.01)
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A61M 60/865 (2021.01)
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A61M 60/13 (2021.01)
A61M 25/00 (2006.01)
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F16C 17/10 (2006.01)
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A61M 60/13 (2021.01)
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F16C 17/10 (2006.01)
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A61M 60/888 (2021.01)
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A61M 60/865 (2021.01)
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A61M 60/13 (2021.01)
A61M 25/00 (2006.01)
A61M 25/01 (2006.01)
A61M 60/237 (2021.01)
A61M 60/414 (2021.01)
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F16C 17/10 (2006.01)
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A61P 35/00 (2006.01)
C07H 21/02 (2006.01)
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A01G 7/00 (2006.01)
A01G 27/02 (2006.01)
A01G 31/00 (2018.01)
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A61K 47/68 (2017.01)
A61K 39/00 (2006.01)
A61K 45/00 (2006.01)
A61P 35/00 (2006.01)
C07D 491/22 (2006.01)
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C12N 5/0783 (2010.01)
C07K 14/705 (2006.01)
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C07K 16/28 (2006.01)
A61K 38/47 (2006.01)
A61K 39/395 (2006.01)
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G01N 27/623 (2021.01)
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C25B 15/08 (2006.01)
C25B 1/04 (2021.01)
C25B 9/00 (2021.01)
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(54) INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND PROGRAM
(51) Int. Cl.
G01M 3/02 (2006.01)
G06T 7/00 (2017.01)
(87) WO2024/048065
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(74) Davies Collison Cave Pty Ltd
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(11) AU-A-2023309139
(21) 2023309139 **(22)** 14.07.2023
(54) SUBSTITUTED IMIDAZO [1, 2-A] PYRIDINE COMPOUNDS AND THE USE THEREOF IN THE TREATMENT AND PREVENTION OF FIBROSIS
(51) Int. Cl.
C07D 471/04 (2006.01)
A61K 31/4353 (2006.01)
A61P 9/00 (2006.01)
A61P 11/00 (2006.01)
A61P 13/12 (2006.01)
A61P 19/00 (2006.01)
C07D 487/04 (2006.01)
(87) WO2024/017144
(31) 63/390,227 **(32)** 18.07.22 **(33)** US
(43) 25.01.2024
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(74) MINTER ELLISON
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- (71)** MOOTRAL INNOVATIONS LIMITED
(11) AU-A-2023289784
(21) 2023289784 **(22)** 20.06.2023
(54) COMPOSITIONS FOR REDUCING METHANE EMISSIONS, ANIMAL FEEDS COMPRISING THEM AND THEIR USE TO REDUCE METHANE EMISSIONS
(51) Int. Cl.
A23K 10/30 (2016.01)
A23K 20/10 (2016.01)
A23K 20/111 (2016.01)
A23K 20/121 (2016.01)
A23K 50/10 (2016.01)
(87) WO2023/247942
(31) 2209089.8 **(32)** 21.06.22 **(33)** GB
(43) 28.12.2023
(72) NEEF, Daniel Wilhelm; MANGANAS, Phanee
(74) Churchill Attorneys
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- (71)** MOTOCADDY LIMITED
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(54) GOLF TROLLEY WHEELS
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B60B 15/02 (2006.01)
B60C 11/03 (2006.01)
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(43) 01.02.2024
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(74) FOUNDRY INTELLECTUAL PROPERTY PTY LTD
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(21) 2023310044 **(22)** 21.07.2023
(54) ENGINEERED HUMAN CARDIAC TISSUE
(51) Int. Cl.
C12N 5/071 (2010.01)
A61K 9/00 (2006.01)
A61K 35/33 (2015.01)
A61K 35/34 (2015.01)
A61K 35/35 (2015.01)
A61K 35/44 (2015.01)
C12N 5/077 (2010.01)
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(74) Spruson & Ferguson
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- (71)** NARAYAN, P.; BERTRAM, T.A.; JAIN, D.
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(21) 2023300371 **(22)** 29.06.2023
(54) SELECTED RENAL CELL POPULATIONS, CHARACTERISTICS AND USES THEREOF
(51) Int. Cl.
A61K 35/22 (2015.01)
A61K 35/12 (2015.01)
A61P 13/12 (2006.01)
C12N 5/07 (2010.01)
(87) WO2024/006918
(31) 63/356,798 **(32)** 29.06.22 **(33)** US
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(74) Griffith Hack
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- (71)** NEDCON B.V.
(11) AU-A-2023316745
(21) 2023316745 **(22)** 25.07.2023
(54) WAREHOUSE FOR THE STORAGE AND RETRIEVAL OF GOODS OR BUNDLES OF GOODS ARRANGED ON LOAD CARRIERS
(51) Int. Cl.
B65G 1/04 (2006.01)
B65G 1/02 (2006.01)

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(54) ONE-STEP PROCESS FOR PRODU-
CING DIMETHYL ETHER
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C07C 41/01 (2006.01)
C01B 3/00 (2006.01)
C07C 43/04 (2006.01)
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- (71) NEPTUNE MEDICAL INC.
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(21) 2023320452 (22) 02.08.2023
(54) DYNAMIC RIGIDIZATION METHODS
AND APPARATUSES
(51) Int. Cl.
A61M 25/01 (2006.01)
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(31) 63/394,570 (32) 02.08.22 (33) US
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(74) RnB IP Pty Ltd
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- (71) NETFLIX, INC.
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(21) 2023320237 (22) 20.07.2023
(54) TECHNIQUES FOR MITIGATING NIC
KTLS DENIAL-OF-SERVICE ATTACKS
(51) Int. Cl.
H04L 9/40 (2022.01)
G06F 21/72 (2013.01)
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(43) 08.02.2024
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(74) FPA Patent Attorneys Pty Ltd
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(11) AU-A-2023289361
(21) 2023289361 (22) 19.06.2023
(54) SYSTEMS AND METHODS FOR
WHOLE-BRAIN CIRCUIT-BASED
NEUROSTIMULATION TO TREAT
BRAIN DISORDERS
(51) Int. Cl.
A61N 2/00 (2006.01)
A61B 5/00 (2006.01)
A61N 1/36 (2006.01)
G01R 33/48 (2006.01)
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GENES TO ENHANCE NATURAL
KILLER CELL FUNCTION
(51) Int. Cl.
C07K 16/28 (2006.01)
C07K 14/705 (2006.01)
C07K 14/725 (2006.01)
C12N 5/078 (2010.01)
C12N 5/10 (2006.01)
C12N 15/90 (2006.01)
A61K 38/17 (2006.01)
A61K 38/20 (2006.01)
C07K 14/54 (2006.01)
C07K 14/715 (2006.01)
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(21) 2023322276 (22) 02.08.2023
(54) DUAL CONNECTIVITY
(51) Int. Cl.
H04W 36/00 (2009.01)
H04W 36/24 (2009.01)
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Srinivasan
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(21) 2023323328 (22) 09.08.2023
(54) APPARATUS, METHODS, AND COM-
PUTER PROGRAMS
(51) Int. Cl.
H04W 28/082 (2023.01)
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- (71) NOPTRACK
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(54) MICROFLUIDIC ELECTROCHEM-
ICAL DEVICE FOR MEASURING A
VOLUME FLOW RATE
(51) Int. Cl.
G01F 1/64 (2006.01)
A61B 5/145 (2006.01)
G01F 1/704 (2006.01)
G01F 1/7088 (2022.01)
G01F 1/712 (2006.01)
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(74) Cooper IP Pty Ltd
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CORPORATION
(11) AU-A-2023342569
(21) 2023342569 (22) 16.08.2023
(54) MAGNETO-OPTICAL TRAP SYSTEM
(51) Int. Cl.
G21K 1/093 (2006.01)
G02B 27/10 (2006.01)
G02B 27/30 (2006.01)
G04F 5/14 (2006.01)
G21K 1/00 (2006.01)
H05H 3/02 (2006.01)
(87) WO2024/058892
(31) 17/945,775 (32) 15.09.22 (33) US
(43) 21.03.2024
(72) CHAVEZ, Dora; IMHOF, Eric A.;
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CORPORATION
(11) AU-A-2023342842
(21) 2023342842 (22) 12.09.2023
(54) ELECTROMETER WITH OPTICAL RY-
DBERG FREQUENCY TUNING
(51) Int. Cl.
G01R 29/12 (2006.01)
G01R 15/24 (2006.01)
G01R 23/17 (2006.01)
G01R 29/08 (2006.01)
(87) WO2024/059040
(31) 63/406,561 (32) 14.09.22 (33) US
18/465,040 11.09.23 US
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(74) GLMR
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- (71) NOVEL BIOME SOLUTIONS INC.
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(21) 2023319159 (22) 01.08.2023
(54) FECAL MICROBIOTA TRANSPLANT
METHODS OF MANUFACTURE
(51) Int. Cl.
A61K 35/74 (2015.01)
A23L 33/135 (2016.01)
A61K 9/00 (2006.01)
A61K 9/19 (2006.01)
A61K 35/38 (2015.01)

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C12N 1/04 (2006.01)
C12N 1/20 (2006.01)
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(72) KLOP, Jason Bernard
(74) AJ PARK

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(54) A METHOD FOR PREPARING A BAKED PRODUCT WITH REDUCED FAT
(51) Int. Cl.
A21D 8/04 (2006.01)
A21D 10/00 (2006.01)
A21D 13/06 (2017.01)
A21D 13/062 (2017.01)
A21D 13/068 (2017.01)
A21D 13/16 (2017.01)
A23L 29/00 (2016.01)
A23L 29/10 (2016.01)
A23L 33/20 (2016.01)
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(72) KUMAR, Jusc; AKBAR, Sajid
(74) Pearce IP Pty Ltd

(71) NOVUMGEN LIMITED
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(21) 2023289786 **(22)** 21.06.2023
(54) AN ORODISPERSIBLE PHARMA-CEUTICAL COMPOSITION OF BACLOFEN AND ITS PROCESS OF PREPARATION
(51) Int. Cl.
A61K 9/00 (2006.01)
A61K 9/20 (2006.01)
A61K 31/197 (2006.01)
A61P 21/02 (2006.01)
(87) WO2023/247949
(31) 2209281.1 **(32)** 24.06.22 **(33)** GB
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(72) PATEL, Kamleshkumar
(74) Forte Intellectual Property Pty Ltd

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(54) METHOD AND SYSTEM FOR EFFICIENT HYDROGEN COMPRESSION
(51) Int. Cl.
F04D 17/10 (2006.01)
C01B 3/02 (2006.01)
C01B 3/50 (2006.01)
F04B 37/18 (2006.01)
F04D 17/12 (2006.01)
F04D 29/70 (2006.01)
F25J 3/06 (2006.01)
(87) WO2024/017496
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(72) RIZZO, Emanuele; DI FESTA, Paola; ORSI, Gianni
(74) Patent Attorney Services

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(54) METHODS FOR MEASURING ORGANIC CARBON CONTENT OF ARGICULTURAL SOILS
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G01N 33/24 (2006.01)
G01N 9/24 (2006.01)
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(43) 04.01.2024
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(74) K&L Gates

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(21) 2023317448 **(22)** 27.07.2023
(54) BARRIER SEAM FOR PERSONAL PROTECTIVE EQUIPMENT
(51) Int. Cl.
A41D 13/12 (2006.01)
A41D 27/24 (2006.01)
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(72) ISRAEL, Samuel G.; GIBSON, Jason M.
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(54) EYEWEAR DISPENSING ASSEMBLY
(51) Int. Cl.
B65D 5/72 (2006.01)
A47F 1/08 (2006.01)
B65D 5/50 (2006.01)
B65D 85/62 (2006.01)
(87) WO2024/030533
(31) 63/395,004 **(32)** 04.08.22 **(33)** US
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(21) 2023335996 **(22)** 28.08.2023
(54) INFORMATION PROCESSING METHOD AND COMPUTER
(51) Int. Cl.
G06Q 50/08 (2012.01)
(87) WO2024/048482
(31) 2022-135478 **(32)** 29.08.22 **(33)** JP
(43) 07.03.2024
(72) TSUNAWAKI Akinori; TABATA Riki
(74) FB Rice Pty Ltd

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(21) 2023335997 **(22)** 28.08.2023
(54) INFORMATION PROCESSING METHOD AND COMPUTER
(51) Int. Cl.
G06Q 50/08 (2012.01)
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(71) OCADO INNOVATION LIMITED
(11) AU-A-2023302038
(21) 2023302038 **(22)** 03.07.2023
(54) A CABLE ROUTER AND A LOAD HANDLING DEVICE
(51) Int. Cl.
H02G 3/04 (2006.01)
B65G 1/04 (2006.01)
F16L 3/015 (2006.01)
H02G 11/00 (2006.01)
(87) WO2024/008664
(31) 2209774.5 **(32)** 04.07.22 **(33)** GB
2209795.0 04.07.22 GB
(43) 11.01.2024
(72) NORDQVIST, Mathias; HOYLE, Clifton; NILSSON, Måns, Fredrik, Jonathan; JOHANNISSON, Wilhelm, Karl
(74) James & Wells Intellectual Property

(71) OCADO INNOVATION LIMITED
(11) AU-A-2023302056
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(54) APPARATUS FOR RETRIEVING STORAGE CONTAINERS FROM A STORAGE AND RETRIEVAL SYSTEM
(51) Int. Cl.
B65G 1/04 (2006.01)
(87) WO2024/008754
(31) 2209814.9 **(32)** 04.07.22 **(33)** GB
2304202.1 22.03.23 GB
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(72) HAYBITTLE, James; HARMAN, Matthew, Park
(74) James & Wells Intellectual Property

(71) OCADO INNOVATION LIMITED
(11) AU-A-2023304707
(21) 2023304707 **(22)** 07.07.2023
(54) STORAGE AND RETRIEVAL SYSTEM
(51) Int. Cl.
B60L 53/10 (2019.01)
H02J 7/00 (2006.01)
(87) WO2024/008945
(31) 2209958.4 **(32)** 07.07.22 **(33)** GB
(43) 11.01.2024
(72) HOYLE, Clifton
(74) James & Wells Intellectual Property

(71) OCTOPUS ENERGY HEATING LIMITED
(11) AU-A-2023315196
(21) 2023315196 **(22)** 26.07.2023
(54) HOT WATER SUPPLY SYSTEM
(51) Int. Cl.

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F24H 9/02 (2006.01)
F24H 9/20 (2022.01)
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(43) 01.02.2024
(72) KONOWALCZYK, Peter
(74) Catalyst Intellectual Property
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- (71)** OKTA, INC.
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(54) PASSKEY INTEGRATION TECHNIQUES FOR IDENTITY MANAGEMENT
(51) Int. Cl.
H04L 9/40 (2022.01)
H04L 9/32 (2006.01)
(87) WO2024/044045
(31) 17/821,748 **(32)** 23.08.22 **(33)** US
(43) 29.02.2024
(72) BERTOCCI, Vittorio, Luigi; WOLOSKI, Matias; IACOMUZZI, Sebastian; CHAUHAN, Ankur, Priyadarshi
(74) FB Rice Pty Ltd
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- (71)** OPHTHALMIC THERAPEUTIC INNOVATION LLC
(11) AU-A-2023320243
(21) 2023320243 **(22)** 21.07.2023
(54) METHODS AND COMPOSITIONS FOR THE TREATMENT OF GLAUCOMA AND RELATED CONDITIONS
(51) Int. Cl.
A61K 31/7076 (2006.01)
A61K 9/00 (2006.01)
A61K 31/047 (2006.01)
A61P 27/02 (2006.01)
C07D 473/00 (2006.01)
(87) WO2024/030766
(31) 63/391,303 **(32)** 21.07.22 **(33)** US
63/491,070 19.03.23 US
(43) 08.02.2024
(72) QIU, Guanting
(74) Griffith Hack
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- (71)** OPTERAN TECHNOLOGIES LIMITED
(11) AU-A-2023302121
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(54) METHOD OF PARSING AN ENVIRONMENT OF AN AGENT IN A MULTI-DIMENSIONAL SPACE
(51) Int. Cl.
G06V 20/10 (2022.01)
G01S 17/58 (2006.01)
G06V 20/58 (2022.01)
(87) WO2024/009081
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(43) 11.01.2024
(72) COPE, Alexander John; KELLY, Mark Francis; JAMES, Sebastian Scott; BLENKINSOP, Alexander
(74) Dentons Patent Attorneys Australasia Limited
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- (71)** ORIZURU THERAPEUTICS, INC.
(11) AU-A-2023307842
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(54) FIBRIN GEL SHEET FOR CELL TRANSPLANTATION
(51) Int. Cl.
C12N 5/071 (2010.01)
A61L 27/38 (2006.01)
A61L 27/52 (2006.01)
A61L 27/58 (2006.01)
C12N 5/10 (2006.01)
(87) WO2024/014497
(31) 2022-113546 **(32)** 14.07.22 **(33)** JP
(43) 18.01.2024
(72) SUGIYAMA Hiroaki; UENO Hikaru; YOSHIHARA Akifumi
(74) Griffith Hack
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- (71)** OSECO INC.; ELFAB LTD.
(11) AU-A-2023315874
(21) 2023315874 **(22)** 10.07.2023
(54) SUPPORT STRUCTURE FOR A REVERSE BUCKLING RUPTURE DISC
(51) Int. Cl.
F16K 17/16 (2006.01)
(87) WO2024/026201
(31) 17/814,959 **(32)** 26.07.22 **(33)** US
(43) 01.02.2024
(72) BAUMANN, Brad; SNELL, Chris; FRANKS, Hunter; GAROUTTE, Jason; ROGERS, Rion
(74) FPA Patent Attorneys Pty Ltd
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- (71)** OSF HEALTHCARE SYSTEM
(11) AU-A-2023308946
(21) 2023308946 **(22)** 20.07.2023
(54) COMPUTING TECHNOLOGIES FOR OPERATING USER INTERFACES BASED ON INTEGRATING DATA FROM DATA SOURCES
(51) Int. Cl.
G16H 40/67 (2018.01)
A61B 5/00 (2006.01)
H04W 4/70 (2018.01)
A61B 5/0205 (2006.01)
A61N 1/372 (2006.01)
(87) WO2024/020165
(31) 63/391,629 **(32)** 22.07.22 **(33)** US
(43) 25.01.2024
(72) WELDY, James; TEUBEL, Jill; MARVIN, Mary
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(21) 2023304728 **(22)** 23.06.2023
(54) AN EXPANDABLE TUBE FOR DEPLOYMENT WITHIN A BLOOD VESSEL
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A61F 2/852 (2013.01)
A61F 2/90 (2013.01)
(87) WO2024/009055
(31) 2209796.8 **(32)** 04.07.22 **(33)** GB
(43) 11.01.2024
(72) MOOR, Andrew; HSIEH, George; COLLINS, Jodi
(74) Catalyst Intellectual Property
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- (71)** OXFORD IONICS LIMITED
(11) AU-A-2023302641
(21) 2023302641 **(22)** 04.07.2023
(54) CHARGED PARTICLE TRAP OPERATION
(51) Int. Cl.
G06N 10/40 (2022.01)
(87) WO2024/009077
(31) 2209813.1 **(32)** 04.07.22 **(33)** GB
(43) 11.01.2024
(72) SRINIVAS, Raghavendra; ALLCOCK, David; MALINOWSKI, Maciej; BALANCE, Chris
(74) FB Rice Pty Ltd
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- (71)** PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA
(11) AU-A-2023324085
(21) 2023324085 **(22)** 25.05.2023
(54) COMMUNICATION DEVICE AND COMMUNICATION METHOD
(51) Int. Cl.
H04W 72/0453 (2023.01)
H04W 16/14 (2009.01)
H04W 92/18 (2009.01)
(87) WO2024/034228
(31) 2022-128348 **(32)** 10.08.22 **(33)** JP
(43) 15.02.2024
(72) HORIUCHI, Ayako; SUZUKI, Hidetoshi; KANG, Yang
(74) Spruson & Ferguson
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- (71)** PAN BUSINESS & CONSULTING
(11) AU-A-2023304616
(21) 2023304616 **(22)** 26.06.2023
(54) MODULAR AND SCALABLE ELECTRICAL CHARGING TERMINAL FOR AN ELECTRIC VEHICLE
(51) Int. Cl.
B60L 53/31 (2019.01)
(87) WO2024/008500
(31) FR2206826 **(32)** 05.07.22 **(33)** FR
(43) 11.01.2024
(72) MALBERT, Paul-Antoine; VERMOREL, Nicolas; MICHEL-VIOUX, Aurélien
(74) Kings Patent & Trade Marks Attorneys Pty Ltd
-
- (71)** PANTHER THERAPEUTICS, INC.
(11) AU-A-2023314589
(21) 2023314589 **(22)** 21.07.2023
(54) TISSUE PENETRATING AND BIODEGRADABLE DRUG DELIVERY DEVICES AND METHODS OF USE THEREOF
(51) Int. Cl.
A61K 9/70 (2006.01)
A61K 9/00 (2006.01)
A61K 31/00 (2006.01)
A61K 47/34 (2017.01)
(87) WO2024/026244
(31) 63/391,535 **(32)** 22.07.22 **(33)** US
63/501,986 12.05.23 US
(43) 01.02.2024
(72) INDOLFI, Laura; LASHOF-SULLIVAN, Margaret; WILDMAN, Daniel; JOHNSON, Christopher D. L.
(74) Davies Collison Cave Pty Ltd

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(71) PARAGON 28, INC. (11) AU-A-2023287753 (21) 2023287753 (22) 22.06.2023 (54) ORTHOPEDIC IMPLANTS AND INSTRUMENTS (51) Int. Cl. A61F 2/30 (2006.01) A61F 2/42 (2006.01) A61F 2/76 (2006.01) (87) WO2023/250428 (31) 63/366,817 (32) 22.06.22 (33) US (43) 28.12.2023 (72) MACLEISH, Darby; LEE, Daniel J.; DOGUÉ, Joseph; DALTON, Mark Ray (74) PHILLIPS ORMONDE FITZPATRICK	(87) WO2024/013515 (31) 2210319.6 (32) 14.07.22 (33) GB 2302265.0 17.02.23 GB (43) 18.01.2024 (72) VANONO, Leah Tamah (74) IP Guardian Pty Ltd	(51) Int. Cl. A61K 9/14 (2006.01) A61K 31/135 (2006.01) A61K 31/137 (2006.01) A61K 31/4045 (2006.01) A61K 36/06 (2006.01) C07D 209/16 (2006.01)
(71) PARTNERS WITH SUN INC. (11) AU-A-2023358207 (21) 2023358207 (22) 09.10.2023 (54) AN INDUSTRIAL SCALE POWER PLANT, A SYSTEM INCLUDING AN INDUSTRIAL SCALE POWER PLANT AND ONE OR MORE APPLIANCES, A CONVECTION OVEN, AND A HOT AND COLD THERMAL FLUID SUPPLY METHOD (51) Int. Cl. F01K 13/00 (2006.01) A21B 1/10 (2006.01) F22B 1/00 (2006.01) (87) WO2024/080865 (31) 2033272 (32) 10.10.22 (33) NL (43) 18.04.2024 (72) HAMDAN, Toufic Fawzi (74) Denemeyer & Associates	(71) PERFETTI VAN MELLE S.P.A. (11) AU-A-2023298317 (21) 2023298317 (22) 22.06.2023 (54) PROCESS FOR THE PREPARATION OF CHEWING GUM AND THE PRODUCTS OBTAINED (51) Int. Cl. A23G 4/08 (2006.01) A23G 4/10 (2006.01) (87) WO2024/003682 (31) 102022000013546 (32) 27.06.22 (33) IT (43) 04.01.2024 (72) SULEYMANOGLU, Evsen; DELEO, Maurizio; TULLI, Alessio; ALLASIA, Fabio; SARRICA, Andrea (74) WRAYS PTY LTD	(87) WO2024/020361 (31) 63/390,382 (32) 19.07.22 (33) US 63/425,401 15.11.22 US 63/432,184 13.12.22 US 63/440,174 20.01.23 US (43) 25.01.2024 (72) OGBURN, Michael; PRICE, Christopher (74) Pizzey Patent and Trade Mark Attorneys Pty Ltd
(71) PATCHEDCONICS, LLC (11) AU-A-2022471676 (21) 2022471676 (22) 27.07.2022 (54) DEBRIS REMOVAL SPACECRAFT (51) Int. Cl. B64G 1/10 (2006.01) B64G 1/62 (2006.01) B64G 1/64 (2006.01) (87) WO2024/023971 (43) 01.02.2024 (72) KAWAGUCHI Junichiro (74) Patchedconics, LLC	(71) PHOTONIC INC. (11) AU-A-2023331435 (21) 2023331435 (22) 18.08.2023 (54) METHODS, DEVICES AND SYSTEMS FOR SECURELY TRANSMITTING AND RECEIVING DATA AND FOR REPLENISHING PRE-SHARED KEYS (51) Int. Cl. H04L 9/08 (2006.01) H04L 9/14 (2006.01) H04L 9/32 (2006.01) (87) WO2024/044837 (31) 63/402,889 (32) 31.08.22 (33) US (43) 07.03.2024 (72) MEYER-SCOTT, Evan; SIMMONS, Stephanie (74) Halfords IP	(71) POLYTEX SPORTBELÄGE PRODUKTIONS-GMBH; GROCHLA, D. (11) AU-A-2023339805 (21) 2023339805 (22) 12.09.2023 (54) ARTIFICIAL TURF FIBER COMPRISING A POLYMER GRAFTED WITH SILOXANES (51) Int. Cl. E01C 13/08 (2006.01) C08G 77/442 (2006.01) D01D 5/253 (2006.01) D01D 5/34 (2006.01) D01F 1/10 (2006.01) (87) WO2024/056675 (31) 22195442.3 (32) 13.09.22 (33) EP 18/145,289 22.12.22 US (43) 21.03.2024 (72) SICK, Stephan; VAN DEN BERG, Thorsten; REHOSEK, Marco; SANDER, Dirk; WAGENER, Oliver (74) Kings Patent & Trade Marks Attorneys Pty Ltd
(71) PBS INNOVATIONS LTD (11) AU-A-2023307565 (21) 2023307565 (22) 14.07.2023 (54) FABRIC MATERIAL SUITABLE FOR INTERVENTION APPARATUS FOR INHIBITING CHALLENGING BEHAVIOUR, A BEAN BAG PRODUCT, AND AN INTERVENTION APPARATUS FOR INHIBITING CHALLENGING BEHAVIOUR (51) Int. Cl. D03D 1/04 (2006.01) A47C 3/16 (2006.01) D03D 15/217 (2021.01) D03D 15/283 (2021.01) D03D 15/513 (2021.01) F41H 5/08 (2006.01)	(71) PHYSIQ INC. (11) AU-A-2023315782 (21) 2023315782 (22) 26.07.2023 (54) METHOD AND APPARATUS FOR DETECTING CONDITIONS FROM PHYSIOLOGY DATA (51) Int. Cl. A61B 5/00 (2006.01) A61B 5/103 (2006.01) G16H 50/20 (2018.01) A61B 5/11 (2006.01) A61B 8/00 (2006.01) G16H 40/67 (2018.01) (87) WO2024/025932 (31) 63/392,218 (32) 26.07.22 (33) US (43) 01.02.2024 (72) SEKARIC, Jadranka; WEGERIC, Stephan; STEINHUBL, Steve (74) RnB IP Pty Ltd	(71) POVIVA CORP. (11) AU-A-2024202439 (21) 2024202439 (22) 20.02.2024 (54) COMPOSITIONS AND METHODS FOR TREATING EPILEPSY (51) Int. Cl. A61K 31/05 (2006.01) A61K 47/04 (2006.01) A61K 47/28 (2006.01) A61K 47/36 (2006.01) A61K 47/44 (2017.01) A61P 25/08 (2006.01) (31) 18/225,227 (32) 24.07.23 (33) US 18/225,234 24.07.23 US 18/225,244 24.07.23 US (43) 06.02.2025 (72) DOCHERTY, John; BUNKA, Christopher, Andrew (74) Pizzey Patent and Trade Mark Attorneys Pty Ltd
(71) PINATA HOLDINGS INC. (11) AU-A-2023311967 (21) 2023311967 (22) 18.07.2023 (54) INHALABLE SEROTONIN RECEPTOR AGONIST FORMULATIONS	(71) PINATA HOLDINGS INC. (11) AU-A-2023311967 (21) 2023311967 (22) 18.07.2023 (54) INHALABLE SEROTONIN RECEPTOR AGONIST FORMULATIONS	(71) POVIVA CORP. (11) AU-A-2024202475 (21) 2024202475 (22) 20.02.2024 (54) COMPOSITIONS AND METHODS FOR TREATING EPILEPSY (51) Int. Cl. A61K 31/05 (2006.01) A61K 47/02 (2006.01)

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A61K 47/44 (2017.01)
A61P 25/08 (2006.01)
(31) 18/225,227 **(32)** 24.07.23 **(33)** US
 18/225,234 24.07.23 US
 18/255,244 24.07.23 US
(43) 06.02.2025
(72) DOCHERTY, John; BUNKA, Christopher, Andrew
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) POVIVA CORP.
(11) AU-A-2024202518
(21) 2024202518 **(22)** 20.02.2024
(54) COMPOSITIONS AND METHODS FOR TREATING EPILEPSY
(51) Int. Cl.
A61K 31/05 (2006.01)
A61K 47/02 (2006.01)
A61K 47/28 (2006.01)
A61K 47/44 (2017.01)
A61P 25/08 (2006.01)
(31) 18/225,252 **(32)** 24.07.23 **(33)** US
(43) 06.02.2025
(72) DOCHERTY, John; BUNKA, Christopher, Andrew
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) POVIVA CORP.
(11) AU-A-2024202447
(21) 2024202447 **(22)** 20.02.2024
(54) COMPOSITIONS AND METHODS FOR TREATING EPILEPSY
(51) Int. Cl.
A61K 31/05 (2006.01)
A61K 47/02 (2006.01)
A61K 47/26 (2006.01)
A61K 47/28 (2006.01)
A61K 47/44 (2017.01)
A61P 25/08 (2006.01)
(31) 18/225,227 **(32)** 24.07.23 **(33)** US
 18/225,234 24.07.23 US
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(43) 06.02.2025
(72) DOCHERTY, John; BUNKA, Christopher, Andrew
(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) PRINCIPIA BIOPHARMA INC.
(11) AU-A-2023287610
(21) 2023287610 **(22)** 21.06.2023
(54) METHODS OF MAKING MODIFIED BTK INHIBITORS
(51) Int. Cl.
C07D 401/04 (2006.01)
A61K 31/519 (2006.01)
A61P 35/00 (2006.01)
C07D 401/12 (2006.01)
C07D 471/04 (2006.01)
C07D 487/04 (2006.01)
(87) WO2023/249980
(31) 63/354,330 **(32)** 22.06.22 **(33)** US
(43) 28.12.2023
(72) KANE, Jr, John L.; OWENS, Timothy D.; TURNER, Timothy J.
(74) Griffith Hack

(71) PROMETHEUS BIOSCIENCES, INC.; DR. FALK PHARMA GMBH
(11) AU-A-2023315888
(21) 2023315888 **(22)** 24.07.2023
(54) ANTI-CD30L ANTIBODIES, FORMULATIONS THEREFOR, AND USES THEREOF
(51) Int. Cl.
C07K 16/28 (2006.01)
A61K 39/00 (2006.01)
A61K 39/395 (2006.01)
A61P 1/00 (2006.01)
A61P 29/00 (2006.01)
(87) WO2024/026271
(31) 63/369,361 **(32)** 25.07.22 **(33)** US
 63/371,553 16.08.22 US
(43) 01.02.2024
(72) FRANSSON, Johan; CONNOLLY, Brian; DICKERSON, Cindy T.; FECTEAU, Jessie-Farah; RENSHAW, Mark; LAURENT, Olivier; BARNETT, Burton; MUNOZ, Ernesto J.
(74) Spruson & Ferguson

(71) PSIQUANTUM, CORP.
(11) AU-A-2023308884
(21) 2023308884 **(22)** 18.07.2023
(54) CRYOGENIC CHIP-ON-CHIP ASSEMBLIES WITH THERMAL ISOLATION STRUCTURES AND METHODS OF FORMING THEREOF
(51) Int. Cl.
G01J 1/04 (2006.01)
G01J 1/44 (2006.01)
G02F 1/35 (2006.01)
G06N 10/00 (2022.01)
H01L 23/498 (2006.01)
(87) WO2024/020060
(31) 63/390,369 **(32)** 19.07.22 **(33)** US
(43) 25.01.2024
(72) VERT, Alexey; KAMINENI, Vimal; KAMINENI, Himani
(74) RnB IP Pty Ltd

(71) PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446721
(21) 2023446721 **(22)** 30.06.2023
(54) COMBINED HEAT EXCHANGE SYSTEM FOR LATERITE-NICKEL ORE LEACHING FLASH TANKS AND PRE-HEATERS
(51) Int. Cl.
C22B 3/04 (2006.01)
B01D 3/06 (2006.01)
B01J 19/24 (2006.01)
C22B 23/00 (2006.01)
F22B 3/04 (2006.01)
F28C 3/06 (2006.01)
(43) 06.02.2025
(72) BRODJONEGORO, Satryo Soemantri; XU, Kaihua; WANALDI, Rizky; AJI, Tegar Mukti; BAKING, Aad Alief Rasyidi; HASIBUAN, Andi Syaputra; RAH-

MADI, Piyan; PENG, Yaguang; SIN-AGA, Arnaldo Marulitua
(74) Madderns Pty Ltd

(71) PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446733
(21) 2023446733 **(22)** 30.06.2023
(54) PROCESS FOR TREATING WASTEWATER IN PREPARATION PROCESS OF COBALT-NICKEL HYDROXIDE
(51) Int. Cl.
C22B 9/00 (2006.01)
C02F 1/52 (2023.01)
C02F 1/60 (2023.01)
C02F 1/62 (2023.01)
C02F 1/64 (2023.01)
C02F 1/66 (2023.01)
C02F 1/70 (2023.01)
C02F 1/72 (2023.01)
(43) 06.02.2025
(72) BRODJONEGORO, Satryo Soemantri; XU, Kaihua; WANALDI, Rizky; HASIBUAN, Andi Syaputra; AJI, Tegar Mukti; RAHMADI, Piyan; SALIM, Emil; YAN, Xiaodong
(74) Madderns Pty Ltd

(71) PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446741
(21) 2023446741 **(22)** 30.06.2023
(54) DEVICE FOR PREPARING LIME-STONE SLURRY AND CALCIUM HYDROXIDE FOR LATERITE-NICKEL ORE HYDROMETALLURGY
(51) Int. Cl.
B01F 35/22 (2022.01)
B02C 23/02 (2006.01)
C22B 23/00 (2006.01)
(43) 06.02.2025
(72) BRODJONEGORO, Satryo Soemantri; XU, Kaihua; PENG, Yaguang; WANALDI, Rizky; AJI, Tegar Mukti; HASIBUAN, Andi Syaputra; KRISTIYANTO, Evan Wahyu; SINAGA, Arnaldo Marulitua
(74) Madderns Pty Ltd

(71) PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446744
(21) 2023446744 **(22)** 29.06.2023
(54) HIGH-PRESSURE REACTOR
(51) Int. Cl.
B01F 27/192 (2022.01)
B01F 27/1125 (2022.01)
B01F 27/113 (2022.01)
B01J 8/10 (2006.01)
C22B 3/08 (2006.01)
C22B 23/00 (2006.01)

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- (43) 06.02.2025
(72) BRODJONEGORO, Satryo Soemantri; XU, Kaihua; WANG, Yi; KRISTIYANTO, Evan Wahyu; BAKING, Aad Alief Rasyidi; AJI, Tegar Mukti; WANALDI, Rizky; HASIBUAN, Andi Syaputra; SINAGA, Arnaldo Marulitua
(74) Madderns Pty Ltd
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- (71) PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446718
(21) 2023446718 (22) 03.07.2023
(54) EQUIPMENT SYSTEM FOR PREPARING NEW-ENERGY NICKEL-COBALT-MANGANESE RAW MATERIAL FROM LATERITIC NICKEL ORE
(51) Int. Cl.
C22B 23/00 (2006.01)
C22B 3/04 (2006.01)
C22B 3/20 (2006.01)
(43) 06.02.2025
(72) XU, Kaihua; BRODJONEGORO, Satryo Soemantri; PENG, Yaquang; AJI, Tegar Mukti; WANALDI, Rizky; HASIBUAN, Andi Syaputra; KRISTIYANTO, Evan Wahyu; BAKING, Aad Alief Rasyidi; SINAGA, Arnaldo Marulitua
(74) Madderns Pty Ltd
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- (71) PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446731
(21) 2023446731 (22) 29.06.2023
(54) COMPREHENSIVE UTILIZATION METHOD FOR VALUABLE ELEMENTS IN DISCHARGED SLAG OF LATERITE-NICKEL ORE SMELTING
(51) Int. Cl.
C22B 21/00 (2006.01)
B01D 3/00 (2006.01)
B01D 5/00 (2006.01)
C22B 3/06 (2006.01)
C22B 3/10 (2006.01)
C22B 3/44 (2006.01)
C22B 23/00 (2006.01)
C22B 59/00 (2006.01)
(43) 30.01.2025
(72) XU, Kaihua; BRODJONEGORO, Satryo Soemantri; WU, Guangyuan; AJI, Tegar Mukti; HASIBUAN, Andi Syaputra; WANALDI, Rizky; KRISTIYANTO, Evan Wahyu; RAHMADI, Piyan
(74) Madderns Pty Ltd
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- (71) PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446736
(21) 2023446736 (22) 03.07.2023
(54) METHOD FOR IMPROVING PARTICLE SIZE AND MORPHOLOGY OF NEUTRALIZER FOR HYDRO-
- METALLURGICAL TREATMENT OF LATERITIC NICKEL ORE
(51) Int. Cl.
C22B 3/20 (2006.01)
C22B 23/00 (2006.01)
(43) 06.02.2025
(72) XU, Kaihua; BRODJONEGORO, Satryo Soemantri; AJI, Tegar Mukti; WANALDI, Rizky; HASIBUAN, Andi Syaputra; RAHMADI, Piyan; ROHMAWATI, Ulf; LIU, Wenzhe
(74) Madderns Pty Ltd
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- (71) PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446740
(21) 2023446740 (22) 30.06.2023
(54) SHORT-PROCESS NICKEL-COBALT-MANGANESE CO-EXTRACTION PROCESS FOR HYDROMETALLURGY OF LATERITIC NICKEL ORE
(51) Int. Cl.
C22B 23/00 (2006.01)
C22B 3/16 (2006.01)
(43) 06.02.2025
(72) XU, Kaihua; BRODJONEGORO, Satryo Soemantri; LIU, Wei; AJI, TEGAR MUKTI; WANALDI, RIZKY; RAHMADI, PIYAN; SALIM, EMIL; HASIBUAN, ANDI SYAPUTRA
(74) Madderns Pty Ltd
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- (71) PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023446742
(21) 2023446742 (22) 29.06.2023
(54) LATERITIC NICKEL ORE HYDROMETALLURGY PRECIPITATION SYSTEM
(51) Int. Cl.
C22B 3/20 (2006.01)
C22B 3/04 (2006.01)
(43) 06.02.2025
(72) XU, Kaihua; BRODJONEGORO, Satryo Soemantri; WANALDI, Rizky; AJI, Tegar Mukti; HASIBUAN, Andi Syaputra; KRISTIYANTO, Evan Wahyu; MUZAY-ADAH, Nurul Lailatul; LIU, Wenzhe; SINAGA, Arnaldo Marulitua
(74) Madderns Pty Ltd
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- (71) PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
(11) AU-A-2023449907
(21) 2023449907 (22) 29.06.2023
(54) SYSTEM AND METHOD FOR REGULATING AI PRECIPITATION AMOUNT DURING HIGH-PRESSURE ACID LEACHING OF LATERITE NICKEL ORE
(51) Int. Cl.
C22B 23/00 (2006.01)
C22B 3/02 (2006.01)
C22B 3/06 (2006.01)
- (43) 06.02.2025
(72) BRODJONEGORO, Satryo Soemantri; XU, Kaihua; AJI, Tegar Mukti; WANALDI, Rizky; HASIBUAN, Andi Syaputra; KRISTIYANTO, Evan Wahyu; SALIM, Emil; WANG, Yi
(74) Madderns Pty Ltd
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- (71) Q (CUE) LTD.; MAIZELS, A.; WEXLER, Y.; BARLIYA, A.
(11) AU-A-2023311501
(21) 2023311501 (22) 19.07.2023
(54) DETECTING AND UTILIZING FACIAL MICROMOVEMENTS
(51) Int. Cl.
G02B 27/01 (2006.01)
G06V 40/16 (2022.01)
H04N 5/30 (2006.01)
(87) WO2024/018400
(31) 63/390,653 (32) 20.07.22 (33) US
63/394,329 02.08.22 US
63/438,061 10.01.23 US
63/441,183 26.01.23 US
63/487,299 28.02.23 US
(43) 25.01.2024
(72) MAIZELS, Avi; WEXLER, Yonatan; BARLIYA, Avi
(74) Collison & Co
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- (71) QUALCOMM INCORPORATED
(11) AU-A-2023347896
(21) 2023347896 (22) 19.09.2023
(54) FLEXIBLE MULTI-LINK OPERATION ARCHITECTURE
(51) Int. Cl.
H04W 28/02 (2009.01)
H04L 69/14 (2022.01)
H04W 74/08 (2024.01)
H04W 76/15 (2018.01)
H04W 84/12 (2009.01)
H04W 88/08 (2009.01)
(87) WO2024/064688
(31) 17/952,227 (32) 24.09.22 (33) US
(43) 28.03.2024
(72) HOMCHAUDHURI, Sandip; FREDERIKS, Guido Robert; KUCHAREWSKI, Nicholas; CHAN, Patrick Poon-Cheuk; KATAR, Srinivas; SINGH, Harinder; HARRSEN, John Thomas
(74) Madderns Pty Ltd
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- (71) RATIO THERAPEUTICS, INC.
(11) AU-A-2023316483
(21) 2023316483 (22) 28.07.2023
(54) FIBROBLAST ACTIVATION PROTEIN-TARGETED COMPOSITIONS AND METHODS OF USE THEREOF
(51) Int. Cl.
C07D 401/12 (2006.01)
A61K 51/04 (2006.01)
A61P 35/00 (2006.01)
C07D 401/14 (2006.01)
C07D 405/14 (2006.01)
C07D 413/14 (2006.01)
(87) WO2024/026072
(31) 63/392,899 (32) 28.07.22 (33) US

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PONNALA, Shashinkanth
(74) FPA Patent Attorneys Pty Ltd
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(21) 2023286505 (22) 21.06.2023
(54) AGRICULTURAL SLURRY APPLICAT-
OR
(51) Int. Cl.
A01C 23/00 (2006.01)
A01C 21/00 (2006.01)
A01M 7/00 (2006.01)
B05B 12/08 (2006.01)
A01B 79/00 (2006.01)
A01C 23/02 (2006.01)
A01C 23/04 (2006.01)
(87) WO2023/250041
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ER, Charlie R.; MICHAEL, Nicholas O.;
HERBERT, Thomas Lawrence
(74) FB Rice Pty Ltd
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- (71) REACTIVE TECHNOLOGIES LIMITED
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(21) 2023322662 (22) 09.08.2023
(54) CONTROLLING GRID COMPONENTS
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(51) Int. Cl.
H02J 3/14 (2006.01)
H02J 3/38 (2006.01)
H02J 13/00 (2006.01)
(87) WO2024/033413
(31) 2211767.5 (32) 11.08.22 (33) GB
(43) 15.02.2024
(72) ALAKONTIOLA, Jukka; BERRY, Brian;
BORRETT, Marc
(74) Spruson & Ferguson
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- (71) REGENERON PHARMACEUTICALS,
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(21) 2023320529 (22) 04.08.2023
(54) AGGREGATION-RESISTANT VARI-
ANTS OF TDP-43
(51) Int. Cl.
C07K 14/47 (2006.01)
A61K 38/00 (2006.01)
A61P 25/00 (2006.01)
(87) WO2024/031053
(31) 63/370,527 (32) 05.08.22 (33) US
(43) 08.02.2024
(72) SHARMA-KANNING, Aarti; TISDALE,
Sarah; FRENDEWEY, David
(74) PHILLIPS ORMONDE FITZPATRICK
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BIOREACTORS
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C12N 5/077 (2010.01)
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(31) 22183054.0 (32) 05.07.22 (33) EP
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(72) HAUPT, Luis
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(21) 2023289662 (22) 22.06.2023
(54) NEUROMODULATION OF TWO OR
MORE NEURONAL TARGETS IN
TREATMENT OF A MEDICAL CONDI-
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A61N 1/36 (2006.01)
A61B 5/00 (2006.01)
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HALANI, Raj
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(54) ADHESIVE COMPOSITIONS WITH
TUNABLE POROSITY AND ACIDITY
CONTENT AND METHODS OF USE
THEREOF
(51) Int. Cl.
A61L 24/00 (2006.01)
A61L 24/02 (2006.01)
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(31) 63/369,690 (32) 28.07.22 (33) US
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CONDUCTIVE COLLECTOR, WITH IN-
TERNAL AND EXTERNAL HEAT EX-
CHANGER
(51) Int. Cl.
H01M 10/613 (2014.01)
H01M 10/04 (2006.01)
H01M 10/653 (2014.01)
H01M 10/6555 (2014.01)
H01M 10/6567 (2014.01)
H01M 50/233 (2021.01)
H01M 50/30 (2021.01)
H01M 50/528 (2021.01)
H01M 50/529 (2021.01)
H01M 50/533 (2021.01)
H01M 50/538 (2021.01)
H01M 50/572 (2021.01)
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(21) 2022474590 (22) 15.08.2022
(54) A ROCK BOLT ASSEMBLY AND AS-
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(51) Int. Cl.
E21D 21/00 (2006.01)
E21D 21/02 (2006.01)
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(72) BELLINGHAM, Werner, Cornelius
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HEALTH SYSTEM
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(21) 2023309027 (22) 21.07.2023
(54) HYDROGELS AND METHODS OF US-
ING THE SAME
(51) Int. Cl.
A61K 47/69 (2017.01)
A61K 38/18 (2006.01)
A61L 27/52 (2006.01)
A61L 27/54 (2006.01)
C08J 3/075 (2006.01)
A61K 47/34 (2017.01)
A61K 47/36 (2006.01)
A61L 27/18 (2006.01)
A61L 27/20 (2006.01)
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ACTIVE STEROID
(51) Int. Cl.
C07J 9/00 (2006.01)
A61K 31/575 (2006.01)
A61P 25/00 (2006.01)
A61P 25/04 (2006.01)
A61P 25/08 (2006.01)
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ZHANG, Ji; WADE, Peter; WANG, Jian;
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(51) Int. Cl.
B28C 5/06 (2006.01)
B28B 19/00 (2006.01)
B28C 7/04 (2006.01)
B28C 7/16 (2006.01)
C04B 38/10 (2006.01)
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(74) Michael Buck IP

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(54) ELECTRONIC APPARATUS INCLUDING STRUCTURE FOR PROTECTING DISPLAY
(51) Int. Cl.
H10K 50/844 (2023.01)
G06F 1/16 (2006.01)
G09F 9/30 (2006.01)
H04M 1/02 (2006.01)
H10K 50/842 (2023.01)
H10K 77/10 (2023.01)
H10K 102/00 (2023.01)
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(72) JUNG, Kiyoung; AN, Jungchul; KIM, Sangkyu; WOO, Jeong
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(51) Int. Cl.
H04N 19/132 (2014.01)
G06N 3/08 (2023.01)
G06T 9/00 (2006.01)
H04N 19/124 (2014.01)
H04N 19/174 (2014.01)
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(74) PHILLIPS ORMONDE FITZPATRICK

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(21) 2023343774 (22) 01.09.2023

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E21D 21/00 (2006.01)
E21F 17/18 (2006.01)
(87) WO2024/055063
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(74) PHILLIPS ORMONDE FITZPATRICK

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(11) AU-A-2023304627
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(54) A BANKNOTE STACK TRANSPORT ARRANGEMENT AND A CASH HANDLING MACHINE
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G07D 11/16 (2019.01)
B65H 29/40 (2006.01)
B65H 31/30 (2006.01)
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(72) BENGTSOON, Kristian; WALLMAN-CARLSSON, Victor; HANSSON, Joel
(74) PHILLIPS ORMONDE FITZPATRICK

(71) SCHLAGE LOCK COMPANY LLC
(11) AU-A-2023300515
(21) 2023300515 (22) 27.06.2023
(54) UWB-BASED SIDE OF DOOR DETECTION FOR INTENT ANALYSIS
(51) Int. Cl.
H04W 12/63 (2021.01)
G07C 9/00 (2020.01)
(87) WO2024/006270
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(72) LAND, Joseph; BROWN, David; KINCAID, Ryan, C.
(74) James & Wells Intellectual Property

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(21) 2023309028 (22) 21.07.2023
(54) GEOPOLYMER COMPOSITIONS AND METHODS
(51) Int. Cl.
C09K 8/46 (2006.01)
C04B 22/06 (2006.01)
C04B 28/00 (2006.01)
C09K 8/42 (2006.01)
C09K 8/467 (2006.01)
E21B 33/12 (2006.01)
E21B 33/127 (2006.01)
C04B 103/10 (2006.01)
(87) WO2024/020563
(31) 63/369,025 (32) 21.07.22 (33) US
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(54) GEOPOLYMER COMPOSITIONS AND METHODS
(51) Int. Cl.
C09K 8/467 (2006.01)
C04B 24/26 (2006.01)
C04B 28/00 (2006.01)
E21B 33/13 (2006.01)
C04B 103/10 (2006.01)
C04B 111/00 (2006.01)
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(54) GEOPOLYMER COMPOSITIONS AND METHODS
(51) Int. Cl.
C09K 8/46 (2006.01)
C04B 22/06 (2006.01)
C04B 28/00 (2006.01)
C04B 40/06 (2006.01)
C09K 8/42 (2006.01)
C09K 8/467 (2006.01)
E21B 33/12 (2006.01)
E21B 33/127 (2006.01)
C04B 103/10 (2006.01)
C04B 111/00 (2006.01)
(87) WO2024/020565
(31) 63/369,025 (32) 21.07.22 (33) US
(43) 25.01.2024
(72) JAIN, Bipin; ASHRAF, Shameed
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(71) SEAGEN INC.; REGENTS OF THE UNIVERSITY OF MINNESOTA
(11) AU-A-2023320054
(21) 2023320054 (22) 03.08.2023
(54) IMMUNOSTIMULATORY ANTI-PD-L1-DRUG CONJUGATES
(51) Int. Cl.
A61K 47/68 (2017.01)
A61P 35/00 (2006.01)
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(74) Pizzeys Patent and Trade Mark Attorneys Pty Ltd

(71) SEAKEEPER, INC.
(11) AU-A-2023314409
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(54) SYSTEM WITH COMMAND LOOPING SATURATION AND AUTOPILOT HEADING
(51) Int. Cl.
B63B 39/06 (2006.01)

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 (72) GALLAGHER, Michael
 (74) HENRY HUGHES IP LTD

(71) SEAKEEPER, INC.
 (11) AU-A-2023315857
 (21) 2023315857 (22) 28.07.2023
 (54) STABILITY CONTROL SYSTEM WITH SAFE BLADE DEPLOYMENT LIMIT
 (51) Int. Cl.
B63B 39/06 (2006.01)
B63B 79/10 (2020.01)
B63B 79/40 (2020.01)
 (87) WO2024/026105
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 (43) 01.02.2024
 (72) SEMPREVIVO, Andrew; GALLAGHER, Michael
 (74) HENRY HUGHES IP LTD

(71) SEALY TECHNOLOGY LLC
 (11) AU-A-2023310994
 (21) 2023310994 (22) 20.07.2023
 (54) SUPPORT CUSHIONS INCLUDING A SUPPORT INSERT SURROUNDED BY FOAM RAILS FOR DIRECTING AIR FLOW, METHODS FOR CONTROLLING SURFACE TEMPERATURE OF SAME, AND METHODS FOR MANUFACTURING SAME
 (51) Int. Cl.
A47C 21/04 (2006.01)
A47C 27/20 (2006.01)
B60N 2/56 (2006.01)
 (87) WO2024/020153
 (31) 17/869,509 (32) 20.07.22 (33) US
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 (72) TAR, Kevin; ANDERSON, Maggie Mae; LEIBEE, Eric; TAR, Alanda
 (74) Spruson & Ferguson

(71) SENSE WIND LIMITED
 (11) AU-A-2023296927
 (21) 2023296927 (22) 27.06.2023
 (54) WIND TURBINE TOWER AND CARRIAGE
 (51) Int. Cl.
F03D 13/10 (2016.01)
F03D 13/20 (2016.01)
F03D 80/80 (2016.01)
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 (31) 2209412.2 (32) 27.06.22 (33) GB
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 (72) GERAETS, Patrick; HORNZEE-JONES, Christopher; DA SILVA DE-MENICIS, Luiz Eduardo
 (74) FB Rice Pty Ltd

(71) SHAKLEE CORPORATION
 (11) AU-A-2023312966
 (21) 2023312966 (22) 27.07.2023
 (54) BOTANICAL EXTRACT BLEND FOR USE IN SKIN CARE

(51) Int. Cl.
A61K 8/9789 (2017.01)
A61K 8/34 (2006.01)
A61Q 19/00 (2006.01)
A61Q 19/08 (2006.01)
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 (31) 63/392,663 (32) 27.07.22 (33) US
 (43) 01.02.2024
 (72) IANIRO, Teodoro T.; FRIEDMAN, Jillian
 (74) PHILLIPS ORMONDE FITZPATRICK

(71) SHANGHAI HAIYAN PHARMACEUTICAL TECHNOLOGY CO., LTD.; YANGTZE RIVER PHARMACEUTICAL GROUP CO., LTD.
 (11) AU-A-2023312111
 (21) 2023312111 (22) 21.07.2023
 (54) PHARMACEUTICALLY ACCEPTABLE SALT AND POLYMORPH OF SUBSTITUTED PYRAZOLO[1,5-A]PYRIMIDIN-7-AMINE DERIVATIVE AND USE THEREOF
 (51) Int. Cl.
C07D 487/04 (2006.01)
A61K 31/519 (2006.01)
A61P 35/00 (2006.01)
 (87) WO2024/017365
 (31) 202210866135.0 (32) 22.07.22 (33) CN
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 (72) DAN, Zhaoling; JIANG, Taotao; WANG, Jibiao; XUE, Yuan
 (74) Baxter Patent Attorneys Pty Ltd

(71) SHELL INTERNATIONALE RE-SEARCH MAATSCHAPPIJ B.V.
 (11) AU-A-2023330055
 (21) 2023330055 (22) 17.08.2023
 (54) DETERMINING RELATIVE PERMEABILITY OF A POROUS MEDIUM
 (51) Int. Cl.
G01N 15/08 (2006.01)
 (87) WO2024/044495
 (31) 63/400,562 (32) 24.08.22 (33) US
 22196135.2 16.09.22 EP
 (43) 29.02.2024
 (72) BERG, Steffen; HOFMANN, Ronny; ZHAO, Bochao
 (74) Spruson & Ferguson

(71) SHENZHEN MANGO SCIENCE AND TECHNOLOGY INNOVATION CO., LTD.
 (11) AU-A-2023449906
 (21) 2023449906 (22) 19.07.2023
 (54) LIGHTING EFFECT CONTROL METHOD, ELECTRONIC DEVICE, AND STORAGE MEDIUM
 (51) Int. Cl.
H05B 47/12 (2020.01)
A63J 17/00 (2006.01)
H04R 1/04 (2006.01)
H04R 1/20 (2006.01)
 (43) 06.02.2025
 (72) WU, Ji
 (74) Remarkable IP

(71) SHERLOCK BIOSCIENCES, INC.
 (11) AU-A-2023300174
 (21) 2023300174 (22) 30.06.2023
 (54) AMBIENT TEMPERATURE NUCLEIC ACID AMPLIFICATION AND DETECTION
 (51) Int. Cl.
C12Q 1/6844 (2018.01)
 (87) WO2024/006552
 (31) 63/358,065 (32) 01.07.22 (33) US
 (43) 04.01.2024
 (72) ANGENENT-MARI, Nicolaas; GOY-AL, Nadish; HUANG, Shichu; DESMOND, Max; WILSON, Mary Katherine; NATOLI, Mary Elizabeth; ALMEIDA, Deborah Paola; ACHEAMPONG, Joycelynn Boakyewah; JONEJA, Aric
 (74) FB Rice Pty Ltd

(71) SIEMENS ENERGY GLOBAL GMBH & CO. KG
 (11) AU-A-2023289511
 (21) 2023289511 (22) 20.06.2023
 (54) ELEKTROLYSER, USE FOR AN ELEKTROLYSER, SUPPLY PIPE FOR AN ELECTROLYSER AND DISCHARGE PIPE FOR AN ELECTROLYSER
 (51) Int. Cl.
C25B 9/73 (2021.01)
C25B 15/06 (2006.01)
C25B 15/08 (2006.01)
 (87) WO2023/247549
 (31) 10 2022 206 228.0 (32) 22.06.22 (33) DE
 (43) 28.12.2023
 (72) DIEHL, Dirk
 (74) Spruson & Ferguson

(71) SOCIÉTÉ DES PRODUITS NESTLÉ S.A.
 (11) AU-A-2023336149
 (21) 2023336149 (22) 29.08.2023
 (54) BOTTLE FOR CARBONATED BEVERAGES HAVING AN IMPROVED PET-ALOID BASE
 (51) Int. Cl.
B65D 1/02 (2006.01)
B29C 49/00 (2006.01)
B29C 49/78 (2006.01)
B29L 31/00 (2006.01)
 (87) WO2024/052169
 (31) 22194527.2 (32) 08.09.22 (33) EP
 (43) 14.03.2024
 (72) TENIERE, Vincent; HENRIQUEL, Laurent; DABROWSKI, Nicolas; KLEIN, Daniel; BARBA CRUZ, Gabriel
 (74) Spruson & Ferguson

(71) SOCIETE DES PRODUITS NESTLE SA
 (11) AU-A-2023343153
 (21) 2023343153 (22) 07.08.2023
 (54) METHODS FOR PROVIDING AND DETERMINING AN EFFICACIOUS WEIGHT LOSS DIET FOR A CANINE
 (51) Int. Cl.
G01N 33/50 (2006.01)
G01N 33/68 (2006.01)
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(72) PAN, Yuanlong; SPEARS, Julie K; XU, Hui; BHATNAGAR, Sandeep
(74) Spruson & Ferguson

(71) STELLARIS PHARMACEUTICALS
APS

(11) AU-A-2023329098
(21) 2023329098 (22) 24.08.2023
(54) HAEMORRHAGE INHIBITING COMPOSITIONS AND METHODS INVOLVING THE SAME
(51) Int. Cl.
A61K 9/00 (2006.01)
A61K 9/70 (2006.01)
A61K 38/48 (2006.01)
A61L 15/42 (2006.01)
A61P 7/04 (2006.01)
(87) WO2024/042148
(31) 22192409.5 (32) 26.08.22 (33) EP
18/210,190 15.06.23 US
(43) 29.02.2024
(72) SCHJOLDAGER, Birgit Ter-Borch Gram
Lilienfeldt
(74) FPA Patent Attorneys Pty Ltd

(71) STORED ENERGY SYSTEMS, LLC

(11) AU-A-2023298147
(21) 2023298147 (22) 29.06.2023
(54) SYSTEMS AND METHODS FOR EXTENDING BATTERY LIFE
(51) Int. Cl.
H02J 7/00 (2006.01)
G01R 31/36 (2020.01)
(87) WO2024/006941
(31) 63/357,189 (32) 30.06.22 (33) US
(43) 04.01.2024
(72) KAEWERT, William; COLEMAN, Sam; MILLER, Kyle
(74) Spruson & Ferguson

(71) STORMTRAP, LLC

(11) AU-A-2023304404
(21) 2023304404 (22) 03.07.2023
(54) CROSSFLOW SETTING DEVICES AND METHODS OF USE
(51) Int. Cl.
E03F 5/14 (2006.01)
(87) WO2024/011091
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(74) AJ PARK

(71) STRYKER CORPORATION

(11) AU-A-2023319965
(21) 2023319965 (22) 02.08.2023
(54) ESTABLISHING WIRELESS DATA CONNECTIONS BETWEEN MEDICAL DEVICES
(51) Int. Cl.
G16H 20/40 (2018.01)
A61B 90/00 (2016.01)
A61M 1/00 (2006.01)
G16H 40/40 (2018.01)

G16H 40/63 (2018.01)

G16H 40/67 (2018.01)
(87) WO2024/030488
(31) 63/370,124 (32) 02.08.22 (33) US
(43) 08.02.2024
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(74) Davies Collison Cave Pty Ltd

(71) SUMITOMO CHEMICAL COMPANY, LIMITED; AKITA UNIVERSITY

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(54) COLLECTOR AND ORE FLOATATION METHOD
(51) Int. Cl.
B03D 1/012 (2006.01)
B03D 1/008 (2006.01)
B03D 1/02 (2006.01)
B03D 101/02 (2006.01)
B03D 101/04 (2006.01)
B03D 103/02 (2006.01)
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(72) SHIBAYAMA Atsushi; YAMADA Manabu; HAGA Kazutoshi; ASANO Ayumi; MAKIGUCHI Kosuke
(74) Pizeys Patent and Trade Mark Attorneys Pty Ltd

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(54) FLOTATION RECOVERY RATE PREDICTION DEVICE, FLOTATION RECOVERY RATE PREDICTION METHOD, AND PROGRAM
(51) Int. Cl.
E21C 41/22 (2006.01)
(87) WO2024/018645
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(54) 2(1H)-PYRIDINIMINE DERIVATIVE
(51) Int. Cl.
C07D 405/12 (2006.01)
A61K 31/198 (2006.01)
A61K 31/4427 (2006.01)
A61K 31/5377 (2006.01)
A61K 39/395 (2006.01)
A61K 45/00 (2006.01)
A61P 25/00 (2006.01)
A61P 25/14 (2006.01)
A61P 25/16 (2006.01)
A61P 25/28 (2006.01)
A61P 43/00 (2006.01)
C07D 213/75 (2006.01)
C07D 401/12 (2006.01)
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(74) Davies Collison Cave Pty Ltd

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(54) SYSTEMS AND METHODS FOR COMPUTING FEATURING SYNTHETIC COMPUTING OPERATORS AND COLLABORATION
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G06N 20/00 (2019.01)
G06N 3/045 (2023.01)
G06N 3/08 (2023.01)
G06N 5/04 (2023.01)
B25J 9/16 (2006.01)
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A61J 3/00 (2006.01)
(87) WO2024/016088
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(54) BEVERAGE CONTAINING STEVIOL GLYCOSIDE AND ALCOHOL
(51) Int. Cl.
A23L 2/00 (2006.01)
A23L 2/60 (2006.01)
C12G 3/025 (2019.01)
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(54) ORAL COMPOSITION, AND METHOD FOR SUPPRESSING BITTERNESS DERIVED FROM ERGOTHIONEINE OR SALT THEREOF
(51) Int. Cl.

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A23L 33/10 (2016.01)
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(43) 08.02.2024
(72) FUNAKI, Ayuta; EGUCHI, Megumi; SU-GIZAKI, Miku
(74) Davies Collison Cave Pty Ltd
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(54) ORAL COMPOSITION, AND METHOD FOR SUPPRESSING BITTERNESS DERIVED FROM ERGOTHIONEINE OR SALT THEREOF AND ODOR DERIVED FROM MILK-DERIVED CERAMIDE-CONTAINING MATERIAL
(51) Int. Cl.
A23L 33/12 (2016.01)
A23L 33/10 (2016.01)
A23L 33/19 (2016.01)
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(21) 2023287265 **(22)** 23.06.2023
(54) LUMINAIRE WITH MULTICOLOR NEURAL NETWORK CONTROL
(51) Int. Cl.
H05B 47/155 (2020.01)
H05B 45/10 (2020.01)
H05B 45/20 (2020.01)
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(31) 63/355,321 **(32)** 24.06.22 **(33)** US
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(74) A.P.T. Patent and Trade Mark Attorneys
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(54) STABLE PEPTIDE COMPOSITIONS AND METHODS OF USE THEREOF FOR TREATMENT OF MODERATE/SEVERE DRY EYE-RELATED OCULAR SYMPTOMS
(51) Int. Cl.
A61K 9/08 (2006.01)
A61K 38/10 (2006.01)
A61K 47/02 (2006.01)
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A61K 47/12 (2006.01)
A61P 27/02 (2006.01)
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E06B 9/262 (2006.01)
E06B 9/322 (2006.01)
E06B 9/90 (2006.01)
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A61M 5/31 (2006.01)
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(21) 2023316589 **(22)** 26.07.2023
(54) COMPOUNDS AND METHODS FOR THE TREATMENT OF DISEASES ASSOCIATED WITH PARASITIC WORMS
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C07D 209/14 (2006.01)
A61K 31/415 (2006.01)
A61K 31/42 (2006.01)
A61K 31/421 (2006.01)
A61K 31/422 (2006.01)
A61K 31/4245 (2006.01)
A61K 31/4439 (2006.01)
A61K 31/5377 (2006.01)
A61P 33/12 (2006.01)
C07C 233/78 (2006.01)
C07D 213/38 (2006.01)
C07D 231/12 (2006.01)
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C07D 235/12 (2006.01)
C07D 235/14 (2006.01)
C07D 235/16 (2006.01)
C07D 235/24 (2006.01)
C07D 261/08 (2006.01)
C07D 261/18 (2006.01)
C07D 261/20 (2006.01)
C07D 263/32 (2006.01)
C07D 263/34 (2006.01)
C07D 263/56 (2006.01)
C07D 271/06 (2006.01)
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A61K 31/395 (2006.01)
A61K 31/03 (2006.01)
A61K 31/045 (2006.01)
A61K 31/047 (2006.01)
A61K 31/33 (2006.01)
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(74) Davies Collison Cave Pty Ltd
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A61F 9/06 (2006.01)
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(54) COMPOSITIONS AND METHODS FOR TREATING DISEASES AND CONDITIONS ASSOCIATED WITH ACTIVATION OF THE NLRP3 INFLAMMASOME
(51) Int. Cl.
C07K 16/18 (2006.01)
A61K 39/395 (2006.01)
A61P 9/10 (2006.01)
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(31) 63/370,851 **(32)** 09.08.22 **(33)** US
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(54) COMPOSITIONS AND METHODS FOR INHIBITION OF KRAS
(51) Int. Cl.
C07D 409/04 (2006.01)
A61K 31/519 (2006.01)
A61P 35/00 (2006.01)
C07D 409/14 (2006.01)
C07D 417/04 (2006.01)
C07D 417/14 (2006.01)
C07D 487/04 (2006.01)
C07D 487/10 (2006.01)
C07D 519/00 (2006.01)
(87) WO2024/030633
(31) 63/395,699 (32) 05.08.22 (33) US
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(54) VECTOR COMPRISING A SEQUENCE ENCODING AN ANTI-TNF ANTIBODY AND AN INFLAMMATION-INDUCIBLE PROMOTER
(51) Int. Cl.
A61P 27/02 (2006.01)
C07K 16/24 (2006.01)
C12N 15/86 (2006.01)
(87) WO2024/003578
(31) 63/357,831 (32) 01.07.22 (33) US
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(54) GAS TREATMENT PROCESS
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B01D 53/32 (2006.01)
C02F 3/28 (2023.01)
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C07C 59/08 (2006.01)
C01F 5/14 (2006.01)
C01F 5/24 (2006.01)
C01F 11/18 (2006.01)
C07C 51/42 (2006.01)
C08K 3/105 (2018.01)
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(54) METHODS FOR INCREASING THE BIOAVAILABILITY OF NUCLEOSIDE MEDICINAL AGENTS
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A61K 31/7068 (2006.01)
A61P 21/00 (2006.01)
A61K 31/513 (2006.01)
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(72) MITTUR, Aravind
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G01V 3/16 (2006.01)
B64D 3/00 (2006.01)
G01V 3/165 (2006.01)
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G06V 10/764 (2022.01)
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(54) RUMINANT FEED
(51) Int. Cl.

A23K 10/16 (2016.01)
A23K 10/18 (2016.01)
A23K 20/105 (2016.01)
A23K 20/20 (2016.01)
A23K 20/22 (2016.01)
A23K 40/35 (2016.01)
A23K 50/10 (2016.01)
(87) WO2024/008734
(31) PA202200666 (32) 08.07.22 (33) DK
PA202330039 22.05.23 DK
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(72) LARSEN, Ebbe Busch
(74) Catalyst Intellectual Property

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(54) PLANT-BASED FROZEN CONFECTION
(51) Int. Cl.
A23G 9/32 (2006.01)
A23G 9/34 (2006.01)
A23G 9/38 (2006.01)
A23G 9/42 (2006.01)
A23L 33/185 (2016.01)
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(74) Davies Collison Cave Pty Ltd

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C07D 471/04 (2006.01)
A61K 31/519 (2006.01)
A61P 29/00 (2006.01)
A61P 35/00 (2006.01)
A61P 35/02 (2006.01)
A61P 37/00 (2006.01)
A61P 37/02 (2006.01)
A61P 37/06 (2006.01)
C07D 513/04 (2006.01)
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(74) FB Rice Pty Ltd

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C12N 15/11 (2006.01)
C12N 15/113 (2010.01)
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(51) Int. Cl.
A61P 3/00 (2006.01)
A61K 31/164 (2006.01)
A61K 31/194 (2006.01)
C07C 233/05 (2006.01)
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(72) MOHSEN, Al-Walid, A.
(74) FPA Patent Attorneys Pty Ltd
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(54) PHILIP@-MEDIATED DELIVERY OF STING AGONISTS
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A61K 39/39 (2006.01)
A61K 47/42 (2017.01)
A61K 47/64 (2017.01)
A61P 35/00 (2006.01)
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(54) PRE-COATING PYROLYSIS CHAR FOR CHAR BRICKS
(51) Int. Cl.
C04B 18/10 (2006.01)
B07B 1/00 (2006.01)
B07B 1/34 (2006.01)
C04B 28/04 (2006.01)
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(51) Int. Cl.
C04B 14/02 (2006.01)
C04B 14/06 (2006.01)
C04B 28/04 (2006.01)
E04G 21/06 (2006.01)
C04B 14/38 (2006.01)
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C07C 29/151 (2006.01)
C01B 32/40 (2017.01)
C07C 1/24 (2006.01)
C07C 11/04 (2006.01)
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C25B 1/04 (2021.01)
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(43) 08.02.2024
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(74) Patent Attorney Services
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(51) Int. Cl.
C10G 2/00 (2006.01)
C01B 3/24 (2006.01)
C01B 3/34 (2006.01)
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(74) Patent Attorney Services
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G07F 17/32 (2006.01)
G06F 1/20 (2006.01)
H05K 7/20 (2006.01)
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B62B 3/00 (2006.01)
B62B 3/10 (2006.01)
B65F 1/12 (2006.01)
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G06T 7/33 (2017.01)
G01J 3/00 (2006.01)
G06N 3/08 (2023.01)
G06V 10/40 (2022.01)
G06V 10/82 (2022.01)
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A61K 9/12 (2006.01)
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A61K 47/26 (2006.01)
A61P 11/08 (2006.01)
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H10N 60/30 (2023.01)
G01R 33/02 (2006.01)
H01F 6/02 (2006.01)
H01F 6/06 (2006.01)
H01F 13/00 (2006.01)
H02M 1/00 (2007.01)
H03K 17/92 (2006.01)
H03K 19/195 (2006.01)
H10N 60/20 (2023.01)
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B08B 9/027 (2006.01)
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B23K 26/352 (2014.01)
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C12P 21/08 (2006.01)
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A61K 39/395 (2006.01)
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G21D 3/04 (2006.01)
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(51) Int. Cl.
B64U 10/25 (2023.01)
B64C 39/02 (2023.01)
B64U 20/80 (2023.01)
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B64C 3/32 (2006.01)
B64C 9/16 (2006.01)
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A62D 3/30 (2007.01)
B08B 15/00 (2006.01)
C09K 3/00 (2006.01)
C22B 3/04 (2006.01)
C22B 3/26 (2006.01)
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C22B 7/00 (2006.01)
B01D 39/12 (2006.01)
B01D 53/46 (2006.01)
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B01J 23/46 (2006.01)
B01J 23/50 (2006.01)
B01J 35/00 (2024.01)
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C01B 21/26 (2006.01)
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G16B 40/10 (2019.01)
G01N 33/483 (2006.01)
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G16B 30/00 (2019.01)
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G06F 30/12 (2020.01)
A41H 3/00 (2006.01)
G06F 3/14 (2006.01)
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G06Q 30/0601 (2023.01)
G06Q 50/04 (2012.01)
G06F 111/02 (2020.01)
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(72) HARVILL, Leslie Young
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G06F 30/17 (2020.01)
A41H 3/00 (2006.01)
G05B 1/00 (2006.01)
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G06Q 30/0601 (2023.01)
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G06F 30/17 (2020.01)
A41H 3/00 (2006.01)
G06F 3/14 (2006.01)
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G06Q 30/0601 (2023.01)
G06Q 50/04 (2012.01)
G06F 111/02 (2020.01)
G06F 111/16 (2020.01)
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G06F 30/17 (2020.01)
A41H 3/00 (2006.01)
G06F 3/14 (2006.01)
G06Q 30/0601 (2023.01)
G06Q 50/04 (2012.01)
G06F 111/02 (2020.01)
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(51) Int. Cl.

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TEN METAL DRIVING METHOD

(51) Int. Cl.

H02K 44/06 (2006.01)*B22D 11/115* (2006.01)*C21C 7/00* (2006.01)*F27D 27/00* (2010.01)

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(32) 01.09.22 (33) JP

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E04H 4/12 (2006.01)

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(51) Int. Cl.

G01N 35/00 (2006.01)*B01L 3/00* (2006.01)*G01N 21/07* (2006.01)*G01N 35/02* (2006.01)*G01N 35/04* (2006.01)

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(43) 29.02.2024

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(21) 2023319292 (22) 27.04.2023

(54) COMMUNICATION METHOD AND AP-
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(51) Int. Cl.

H04W 4/06 (2009.01)

(87) WO2024/027235

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(51) Int. Cl.

C07D 473/18 (2006.01)*A61K 31/52* (2006.01)*A61K 31/522* (2006.01)*A61K 47/50* (2017.01)*A61K 47/60* (2017.01)*A61K 47/65* (2017.01)*A61K 47/68* (2017.01)*A61P 35/00* (2006.01)*C07D 473/16* (2006.01)*C07K 5/00* (2006.01)*C07K 16/18* (2006.01)*C07K 16/30* (2006.01)

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2023206527	RISCO, R.	2023300371	GENECARE RESEARCH INSTITUTE CO., LTD.; SOLASIA PHARMA K.K.; THE UNIVERSITY OF TOKYO
2023286505	RAVEN INDUSTRIES, INC.	2023300477	SCHLAGE LOCK COMPANY LLC
2023286689	BIOVERATIV USA INC.	2023300515	HYPERTUNNEL IP LIMITED
2023286757	LANXESS DEUTSCHLAND GMBH	2023300590	CANADIAN BLOOD SERVICES; UNIVERSITY HEALTH NETWORK
2023287265	SUNTRACKER TECHNOLOGIES LTD.	2023300707	YYZ PHARMATECH INC.
2023287610	PRINCIPIA BIOPHARMA INC.	2023300751	DYSON TECHNOLOGY LIMITED
2023287627	ANGLO AMERICAN TECHNICAL & SUSTAINABILITY SERVICES LTD; ANGLO CORPORATE SERVICES SOUTH AFRICA (PTY) LTD	2023300970	TEARSOLUTIONS, INC.
2023287677	K18, INC.	2023301415	CSL BEHRING AG
2023287691	MIRATI THERAPEUTICS, INC.	2023301703	DYSON TECHNOLOGY LIMITED
2023287695	SAGE THERAPEUTICS, INC.	2023301783	CATERPILLAR INC.
2023287753	PARAGON 28, INC.	2023302038	OCADO INNOVATION LIMITED
2023288120	FIRST GREATER WESTERN LIMITED	2023302052	UNIBIO TECH SCIENCE A/S
2023288538	CAAMTECH, INC.	2023302056	OCADO INNOVATION LIMITED
2023288541	THE CLEVELAND CLINIC FOUNDATION	2023302104	VEIKKAUS OY
2023288923	W2M INDUSTRIES OY	2023302121	OPTERAN TECHNOLOGIES LIMITED
2023288942	FIRST GREATER WESTERN LIMITED	2023302579	REPAIRON GMBH
2023289001	ANGLO AMERICAN TECHNICAL & SUSTAINABILITY SERVICES LTD; ANGLO CORPORATE SERVICES SOUTH AFRICA (PTY) LTD	2023302641	OXFORD IONICS LIMITED
2023289139	K18, INC.	2023302872	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION
2023289152	UNIVERSITY OF WYOMING	2023302931	BEYOND AIR, INC.
2023289153	UNIVERSITY OF WYOMING	2023303077	INITIATOR PHARMA A/S
2023289361	NEUROTHERAPEUTIX, LLC	2023303105	TERUMO EUROPE NV
2023289511	SIEMENS ENERGY GLOBAL GMBH & CO. KG	2023303357	HUSQVARNA AB
2023289632	VERACIO LTD.	2023303662	VOLVO AUTONOMOUS SOLUTIONS AB
2023289662	RESHAPE LIFESCIENCES, INC.	2023304031	CHUGAI SEIYAKU KABUSHIKI KAISHA
2023289707	CHENGDU BRILLIANT INSPIRATION BIOTHERAPEUTICS CO., LTD	2023304263	CATERPILLAR INC.
2023289782	FIRST GREATER WESTERN LIMITED	2023304388	CATERPILLAR INC.
2023289784	MOOTRAL INNOVATIONS LIMITED	2023304391	CATERPILLAR INC.
2023289785	ELEGANT DESIGN AND SOLUTIONS LTD	2023304404	STORMTRAP, LLC
2023289786	NOVUMGEN LIMITED	2023304616	PAN BUSINESS & CONSULTING
2023289905	GENZYME CORPORATION	2023304627	SCAN COIN AB
2023289916	AFINITI, LTD.	2023304707	OCADO INNOVATION LIMITED
2023294921	ASSURANT, INC.	2023304728	OXFORD ENDOVASCULAR LTD.
2023295198	BOSTON SCIENTIFIC NEUROMODULATION CORPORATION	2023305009	ECKELBERRY, N.
2023296925	UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED	2023305505	CAPITAL ONE SERVICES, LLC
2023296927	SENSE WIND LIMITED	2023306100	ABL BIO INC.
2023297023	HITACHI ENERGY LTD	2023306149	FD IP & LICENSING LLC
2023297070	BRIGHTFLOW	2023306185	HUANENG CLEAN ENERGY RESEARCH INSTITUTE; SHANGHAI SHIDONGKOU NO.2 POWER PLANT HUANENG INTERNATIONAL POWER CO., LTD.
2023297128	DYSON TECHNOLOGY LIMITED	2023306375	HOTSPOT THERAPEUTICS, INC.
2023297129	DYSON TECHNOLOGY LIMITED	2023306432	MEDILINK THERAPEUTICS (SUZHOU) CO., LTD.
2023297134	THE UNIVERSITY OF BRISTOL	2023306527	DORMAKABA DEUTSCHLAND GMBH
2023297141	WHISPER AERO INC.	2023306617	VEIOVIA LIMITED
2023297839	NUTRIEN AG SOLUTIONS, INC.	2023306785	DPB DESIGNS PTY LTD
2023297965	ENZA ZADEN BEHEER B.V.		

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2023306787	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION		ÖFFENTLICHEN RECHTS DES LANDES BRANDENBURG; J&C BACHMANN GMBH
2023307061	CNH INDUSTRIAL AMERICA LLC	2023312358	SUMITOMO CHEMICAL COMPANY, LIMITED; AKITA UNIVERSITY
2023307163	HOTSPOT THERAPEUTICS, INC.		SUMITOMO PHARMA CO., LTD.
2023307165	HOTSPOT THERAPEUTICS, INC.	2023312415	BYD COMPANY LIMITED
2023307182	MAIA BIOTECHNOLOGY, INC.	2023312509	ARRAY TECH, INC.
2023307229	ISOL8 (HOLDINGS) LIMITED	2023312643	AMGEN INC.
2023307403	FAIN-BIOMEDICAL INC.	2023312724	ABBVIE OPERATIONS SINGAPORE PTE. LTD.
2023307459	VEOLIA ENVIRONNEMENT SA	2023312809	SHAKLEE CORPORATION
2023307565	PBS INNOVATIONS LTD	2023312966	FMC KONGSBERG SUBSEA AS
2023307842	ORIZURU THERAPEUTICS, INC.	2023312990	INTRESSA VASCULAR S.A.
2023308184	LEOLABS, INC.	2023312999	INNOSPEC FUEL SPECIALTIES LLC
2023308185	UCB BIOSCIENCES, INC.	2023313075	CROWN PACKAGING TECHNOLOGY, INC.
2023308303	HOTSPOT THERAPEUTICS, INC.	2023313078	ASTRAZENECA UK LIMITED; DAIICHI SANKYO COMPANY, LIMITED
2023308516	VICTORIA LINK LIMITED	2023313120	FUJITSU GENERAL LIMITED
2023308854	7-ELEVEN, INC.		2023313254
2023308884	PSIQUANTUM, CORP.	2023313285	MITSUBISHI HEAVY INDUSTRIES, LTD.
2023308929	ABIOMED, INC.	2023313301	FUNDACIÓ INSTITUT DE BIOENGINYERIA DE CATALUNYA (IBEC); UNIVERSITAT POLITÈCNICA DE CATALUNYA (UPC)
2023308946	OSF HEALTHCARE SYSTEM		2023313309
2023309003	LOMA LINDA UNIVERSITY HEALTH	2023313399	INNOSPEC ACTIVE CHEMICALS LLC
2023309027	ROWAN UNIVERSITY; THE COOPER HEALTH SYSTEM	2023314109	UNIVERSITY OF MASSACHUSETTS
2023309028	SCHLUMBERGER TECHNOLOGY B.V.	2023314130	MEMORIAL SLOAN-KETTERING CANCER CENTER; SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH; MEMORIAL HOSPITAL FOR CANCER AND ALLIED DISEASES
2023309029	SCHLUMBERGER TECHNOLOGY B.V.		2023314145
2023309139	MOEXA PHARMACEUTICALS LIMITED	2023314152	LOWES TC PTY LTD
2023309285	CONTITECH DEUTSCHLAND GMBH	2023314254	ZYMEWORKS BC INC.
2023309295	KAESLER NUTRITION GMBH	2023314276	IB APPLIANCES US HOLDINGS, LLC
2023309326	LIGNUTECH OY; FIBERDOM OY	2023314276	MERCK SHARP & DOHME LLC
2023309463	ABIOMED, INC.	2023314402	ABBVIE OPERATIONS SINGAPORE PTE. LTD.
2023309554	SUN & THUNDER, LLC	2023314409	SEAKEEPER, INC.
2023309560	BIOFIRE DIAGNOSTICS, LLC	2023314418	REVBIO, INC.
2023309583	SCHLUMBERGER TECHNOLOGY B.V.	2023314461	TRIPLEW LTD.
2023309588	FLAGSHIP PIONEERING INNOVATIONS VI, LLC	2023314589	PANTHER THERAPEUTICS, INC.
2023309744	BAUERFEIND AG	2023314715	BABCOCK INTEGRATED TECHNOLOGY LIMITED
2023309788	JIJIBABA LIMITED	2023314816	INDEPENDENT MINERAL STANDARDS PTY LTD
2023309827	KRAKEN TECHNOLOGIES LIMITED	2023314872	MOTOCADDY LIMITED
2023309996	SAMSUNG ELECTRONICS CO., LTD.	2023315196	OCTOPUS ENERGY HEATING LIMITED
2023310044	MURDOCH CHILDREN'S RESEARCH INSTITUTE; THE COUNCIL OF THE QUEENSLAND INSTITUTE OF MEDICAL RESEARCH	2023315292	THE UNIVERSITY OF QUEENSLAND
2023310047	W-TECH TECHNOLOGIES LTD.	2023315779	GRAPHIC PACKAGING INTERNATIONAL, LLC
2023310050	SUNNYBROOK RESEARCH INSTITUTE	2023315782	PHYSIQ INC.
2023310484	MINGHUI PHARMACEUTICAL (HANGZHOU) LIMITED; MINGHUI PHARMACEUTICAL (SHANGHAI) LIMITED	2023315795	CARESTREAM DENTAL LLC; TROPHY SAS
2023310555	NUOVO PIGNONE TECNOLOGIE - S.R.L.	2023315857	SEAKEEPER, INC.
2023310811	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST-NATUURWETENSCHAPPELIJK ONDERZOEK TNO	2023315874	OSECO INC.; ELFAB LTD.
2023310946	ATLANTICA AGRICOLA, S.A.	2023315888	PROMETHEUS BIOSCIENCES, INC.; DR. FALK PHARMA GMBH
2023310994	SEALY TECHNOLOGY LLC	2023316019	FMC KONGSBERG SUBSEA AS
2023311137	CALIENT.AI INC.	2023316020	ECOCHEM MATERIALS LIMITED; INSTITUT NATIONAL DES SCIENCES APPLIQUÉES DE TOULOUSE; UNIVERSITE TOULOUSE III – PAUL SABATIER
2023311213	DEXTER AXLE COMPANY LLC		2023316266
2023311258	YARA INTERNATIONAL ASA	2023316483	BEIJING GOLDWIND SCIENCE & CREATION WIND-POWER EQUIPMENT CO., LTD.
2023311364	COOK MEDICAL TECHNOLOGIES LLC	2023316589	RATIO THERAPEUTICS, INC.
2023311501	Q (CUE) LTD.; MAIZELS, A.; WEXLER, Y.; BARLIYA, A.		2023316745
2023311559	SUNTORY HOLDINGS LIMITED	2023316788	HEART AEROSPACE AB
2023311587	FUJIFILM CORPORATION	2023317448	O&M HALYARD INC.
2023311806	BLUE HALO BIOMEDICAL, LLC	2023317482	UOP LLC
2023311817	7-ELEVEN, INC.	2023317491	CENTURYLINK INTELLECTUAL PROPERTY LLC
2023311828	HEAT & CONTROL, INC.	2023317501	GRAPHIC PACKAGING INTERNATIONAL, LLC
2023311890	LIFOAM INDUSTRIES, LLC	2023317510	UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION
2023311967	PINATA HOLDINGS INC.		2023317517
2023311999	ACADEMIA SINICA	2023317559	UOP LLC
2023312014	HUAWEI TECHNOLOGIES CO., LTD.	2023317588	GRAPHIC PACKAGING INTERNATIONAL, LLC
2023312111	SHANGHAI HAIYAN PHARMACEUTICAL TECHNOLOGY CO., LTD.; YANGTZE RIVER PHARMACEUTICAL GROUP CO., LTD.	2023318409	ARRAY TECH, INC.
2023312206	MACO PHARMA	2023318410	SUNTORY HOLDINGS LIMITED
2023312222	HELMHOLTZ-ZENTRUM POTSDAM - DEUTSCHES GEOFORSCHUNGSZENTRUM GFZ - STIFTUNG DES		

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2023318508	G.B. PROGETTI S.R.L.	2023330055	SHELL INTERNATIONALE RESEARCH MAATSCHAP-PIJ B.V.
2023318638	ENERGY DOME S.P.A.	2023330355	KIM, J.H.
2023318795	SAMSUNG ELECTRONICS CO., LTD.	2023330714	OKTA, INC.
2023319159	NOVEL BIOME SOLUTIONS INC.	2023330901	JETOPTERA, INC.
2023319292	ZTE CORPORATION	2023331065	ZOETIS SERVICES LLC
2023319965	STRYKER CORPORATION	2023331360	LG ELECTRONICS INC.
2023320010	O&M HALYARD INC.	2023331399	HAINAN NORMAL UNIVERSITY
2023320054	SEAGEN INC.; REGENTS OF THE UNIVERSITY OF MINNESOTA	2023331435	PHOTONIC INC.
2023320110	THERAS, INC.; LEIDOS BIOMEDICAL RESEARCH, INC.; LAWRENCE LIVERMORE NATIONAL SECURITY, LLC	2023331491	FONTERRA CO-OPERATIVE GROUP LIMITED
2023320237	NETFLIX, INC.	2023333559	EXOANALYTIC SOLUTIONS, INC.
2023320243	OPHTHALMIC THERAPEUTIC INNOVATION LLC	2023333748	KROSAKIHARIMA CORPORATION
2023320300	CENTURYLINK INTELLECTUAL PROPERTY LLC	2023333953	MITSUBISHI HEAVY INDUSTRIES, LTD.
2023320325	THE ESAB GROUP, INC.	2023335215	ZMAG, LTD.
2023320390	24M TECHNOLOGIES, INC.	2023335996	OBAYASHI CORPORATION
2023320391	24M TECHNOLOGIES, INC.	2023335997	OBAYASHI CORPORATION
2023320447	NKARTA, INC.	2023336149	SOCIÉTÉ DES PRODUITS NESTLÉ S.A.
2023320450	DEWPOINT THERAPEUTICS, INC.	2023336579	NOVOZYMES A/S
2023320452	NEPTUNE MEDICAL INC.	2023338229	GOOGLE LLC
2023320453	VOYAGER THERAPEUTICS, INC.	2023339805	POLYTEX SPORTBELÄGE PRODUKTIONS-GMBH; GROCHLA, D.
2023320479	CORTEVA AGRISCIENCE LLC	2023341638	WISK AERO LLC
2023320529	REGENERON PHARMACEUTICALS, INC.	2023342569	NORTHROP GRUMMAN SYSTEMS CORPORATION
2023320547	LYELL IMMUNOPHARMA, INC.	2023342792	KYOCERA SENCO INDUSTRIAL TOOLS, INC.
2023320568	JUNO THERAPEUTICS, INC.	2023342842	NORTHROP GRUMMAN SYSTEMS CORPORATION
2023321035	HUAWEI TECHNOLOGIES CO., LTD.	2023343153	SOCIETE DES PRODUITS NESTLE SA
2023321202	BLANCO GMBH + CO KG	2023343277	ALCON INC.
2023321591	FLUIDMASTER, INC.	2023343280	ALCON INC.
2023321673	COLGATE-PALMOLIVE COMPANY	2023343290	ALCON INC.
2023321811	GRACO MINNESOTA INC.	2023343470	AMGEN INC.
2023321869	ABATA THERAPEUTICS, INC.	2023343543	INNOVALVE BIO MEDICAL LTD.
2023321872	ABATA THERAPEUTICS, INC.	2023343569	MAGENTA MEDICAL LTD
2023321897	ENDOREL BIOSCIENCES LLC	2023343570	MAGENTA MEDICAL LTD
2023321944	24M TECHNOLOGIES, INC.	2023343571	MAGENTA MEDICAL LTD
2023322097	UNILEVER IP HOLDINGS B.V.	2023343572	MAGENTA MEDICAL LTD
2023322276	NOKIA TECHNOLOGIES OY	2023343573	MAGENTA MEDICAL LTD
2023322405	UMICORE	2023343574	MAGENTA MEDICAL LTD
2023322436	ZODIAC POOL SYSTEMS LLC	2023343774	SANDVIK MINING AND CONSTRUCTION AUSTRALIA (PRODUCTION/SUPPLY) PTY LTD
2023322662	REACTIVE TECHNOLOGIES LIMITED	2023343932	LUOHE LETONE HYDRAULICS TECHNOLOGY CO., LTD.
2023323051	DIA, I.	2023346212	ALCON INC.
2023323328	NOKIA TECHNOLOGIES OY	2023346372	CLEARMIND MEDICINE INC.; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM LTD.
2023323419	BP P.L.C.	2023346908	CONTITECH DEUTSCHLAND GMBH
2023323420	BP P.L.C.	2023347066	WEIR MINERALS AUSTRALIA LTD
2023323800	TEH YOR CO., LTD.	2023347896	QUALCOMM INCORPORATED
2023323824	GRACO MINNESOTA INC.	2023351417	JOHNSON MATTHEY HYDROGEN TECHNOLOGIES LIMITED
2023323947	LONGHORN VACCINES AND DIAGNOSTICS, LLC	2023353008	ZAZZLE INC.
2023324085	PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA	2023353009	ZAZZLE INC.
2023324170	THE JOHNS HOPKINS UNIVERSITY	2023353010	ZAZZLE INC.
2023324239	KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.); NATIONAL UNIVERSITY CORPORATION TOKAI NATIONAL HIGHER EDUCATION AND RESEARCH SYSTEM	2023353011	ZAZZLE INC.
2023324461	VERONA PHARMA PLC	2023353012	ZAZZLE INC.
2023324468	INNOSPEC LIMITED	2023354875	KOMATSU LTD.
2023324480	INNOSPEC FUEL SPECIALTIES LLC	2023354876	KOMATSU LTD.
2023324483	INNOSPEC FUEL SPECIALTIES LLC	2023357342	CASALE SA
2023324685	CELLINO BIOTECH, INC.	2023358207	PARTNERS WITH SUN INC.
2023325023	UNIVERSITY OF RHODE ISLAND BOARD OF TRUSTEES; YALE UNIVERSITY	2023361646	ACRULOG PTY. LTD.
2023325128	BRISTOL-MYERS SQUIBB COMPANY	2023362009	SAINT-GOBAIN PLACO
2023325853	CHINA PETROLEUM & CHEMICAL CORPORATION; SINOPEC (SHANGHAI) RESEARCH INSTITUTE OF PETROCHEMICAL TECHNOLOGY CO., LTD.	2023366732	LOCKHEED MARTIN CORPORATION
2023326213	ALCON INC.	2023386485	LG ENERGY SOLUTION, LTD.
2023326377	EMPIRICAL INNOVATIONS, INC.	2023418145	ARCELIK ANONIM SIRKETI
2023328822	LONGI SOLAR TECHNOLOGY (TAIZHOU) CO., LTD.	2023425290	WESTINGHOUSE ELECTRIC COMPANY LLC
2023328870	BITDEFENDER IPR MANAGEMENT LTD	2023444873	IIDA GROUP HOLDINGS CO., LTD.
2023329098	STELLARIS PHARMACEUTICALS APS	2023446718	PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS
2023329330	WASHINGTON UNIVERSITY	2023446721	PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM INDONESIA NEW ENERGY MATERIALS

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2023446731	PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM IN-DONESIA NEW ENERGY MATERIALS
2023446733	PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM IN-DONESIA NEW ENERGY MATERIALS
2023446736	PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM IN-DONESIA NEW ENERGY MATERIALS
2023446740	PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM IN-DONESIA NEW ENERGY MATERIALS
2023446741	PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM IN-DONESIA NEW ENERGY MATERIALS
2023446742	PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM IN-DONESIA NEW ENERGY MATERIALS
2023446744	PT ESG NEW ENERGY MATERIAL; PT QMB NEW ENERGY MATERIALS; GEM CO., LTD.; PT GEM IN-DONESIA NEW ENERGY MATERIALS
2023449906	SHENZHEN MANGO SCIENCE AND TECHNOLOGY INNOVATION CO., LTD.
2023449907	PT QMB NEW ENERGY MATERIALS; PT ESG NEW ENERGY MATERIAL; GEM CO., LTD.; PT GEM IN-DONESIA NEW ENERGY MATERIALS
2024202439	POVIVA CORP.
2024202447	POVIVA CORP .
2024202475	POVIVA CORP.
2024202518	POVIVA CORP.
2024202698	GUANGZHOU RIBOBIO CO., LTD.
2024266886	IRON ORE COMPANY OF CANADA
2024278104	IRON ORE COMPANY OF CANADA
2024287276	KAIMI BIOMEDICINE (CHENGDU) CO., LTD.

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<u>A01B 79 I/-</u>	<u>A01P 21 I/-</u>	<u>A23L 33 I/-</u>	<u>A61F 9 I/-</u>	<u>A61K 38 I/-</u>	
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2023286505	2023358207		2023331360	2023312206	
<u>A01C 23 I/-</u>	<u>A21D 10 I/-</u>		<u>A47L 9 I/-</u>	<u>A61J 3 I/-</u>	
2023286505	2023336579	<u>A23N 7 I/-</u>	2023297128 2023297129 2023298224 2023300751 2023301703 2023303357 2023331360	2023310050	
<u>A01D 41 I/-</u>	<u>A21D 13 I/-</u>	2023311828		<u>A61K 31 I/-</u>	
2023307061	2023336579	<u>A41C 1 I/-</u>		2022474541 2022479909 2023287610 2023287691 2023287695 2023288541 2023289786 2023296925 2023298072 2023300477 2023300707 2023303077 2023304031 2023306375 2023307163 2023307182 2023308185 2023308303 2023309139 2023311967 2023312111 2023312415 2023312809 2023314152 2023314402 2023314589 2023316589 2023317510 2023320110 2023320243 2023324461 2023346372 2024202439 2024202447 2024202475 2024202518	<u>A61K 39 I/-</u>
<u>A01G 24 I/-</u>	<u>A21D 2 I/-</u>	2023309744		2023286689 2023302931 2023306100 2023306375 2023306432 2023310484 2023312415 2023314276 2023315888 2023320547 2023320568 2023321872 2023323947 2023324170 2023325023 2023329330 2024287276	
2023314145	2023309295	<u>A41D 13 I/-</u>	<u>A61B 18 I/-</u>		
<u>A01G 27 I/-</u>	<u>A21D 8 I/-</u>	2023317448	2022472044		
2023299325 2023314145	2023336579	<u>A41D 27 I/-</u>	<u>A61B 3 I/-</u>		
<u>A01G 31 I/-</u>	2023331491	<u>A41H 3 I/-</u>	2023343277 2023343280 2023343290 2023346212		
2023299325 2023314145	<u>A23G 4 I/-</u>	2023353008 2023353009 2023353010 2023353011 2023353012	<u>A61B 5 I/-</u>		
<u>A01G 7 I/-</u>	2023298317		2023289361 2023289662 2023300208 2023307403 2023308946 2023313301 2023315782 2023444873		
2023299325	<u>A23G 9 I/-</u>	<u>A47B 77 I/-</u>		<u>A61B 7 I/-</u>	
<u>A01G 9 I/-</u>	2023322097	2023321202	2023313301		
2023314145	<u>A23K 10 I/-</u>	<u>A47C 21 I/-</u>		<u>A61B 8 I/-</u>	
<u>A01H 4 I/-</u>	2023289784 2023302052	2023310994		2023315782 2023315795	
2023314145	<u>A23K 20 I/-</u>	<u>A47C 27 I/-</u>	<u>A61B 7 I/-</u>		
<u>A01H 5 I/-</u>	2023289784 2023302052 2023309295	2023310994			
2023297965		<u>A47C 3 I/-</u>	<u>A61B 8 I/-</u>		
<u>A01H 6 I/-</u>	<u>A23K 40 I/-</u>	2023307565	2023315782 2023315795		
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<u>A01M 7 I/-</u>	<u>A23K 50 I/-</u>	2023320010	2023311364 2023319965 2023326213		
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<u>A01N 25 I/-</u>	2022474541 2023289784 2023302052	2023311828		2022476747 2023302931 2023306432 2023307163 2023309027 2023313120 2023314152 2023314276 2023314589 2023320054 2023321897 2023324461 2023325023 2024202439 2024202447 2024202475 2024202518	
2023310946		<u>A47J 27 I/-</u>	<u>A61F 13 I/-</u>		
<u>A01N 37 I/-</u>	<u>A23L 13 I/-</u>		2022468097	<u>A61K 35 I/-</u>	
2023320479	2023326377	2023314254	<u>A61F 2 I/-</u>	2023298469 2023300371 2023302931 2023310044 2023311587 2023319159 2023321869 2023321872	
<u>A01N 65 I/-</u>	<u>A23L 2 I/-</u>	<u>A47J 31 I/-</u>	2023287753 2023304728 2023312999 2023343290 2023343543		
2023310946	2023311559	2023318508		<u>A61K 36 I/-</u>	
<u>A01P 13 I/-</u>	<u>A23L 29 I/-</u>	<u>A47L 11 I/-</u>	<u>A61F 5 I/-</u>	<u>A61K 48 I/-</u>	
2023320479	2023309295 2023336579	2022463250	2023309744	2023298469 2023300477	
		<u>A47L 5 I/-</u>			
		2023297128			

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<u>A61K 49 /-</u>	2023343574	<u>A61P 27 /-</u>	<u>A61P 7 /-</u>	2023324239 2023361646	<u>B05C 11 /-</u>
2023298072	<u>A61M 39 /-</u>	2023297134	2023286689		2023315779
2023311364	2023308929	2023300970	2023300707	<u>B01D 65 /-</u>	<u>B05C 5 /-</u>
		2023320243	2023329098	2023302872	2023315779
<u>A61K 51 /-</u>	<u>A61M 5 /-</u>	<u>A61P 29 /-</u>	<u>A61P 9 /-</u>	<u>B01D 69 /-</u>	<u>B05C 9 /-</u>
2023316483	2023303105 2023309003	2023296925 2023312809 2023314402 2023315888	2023309139 2023324170	2023302872	2023315779
<u>A61K 8 /-</u>	<u>A61M 60 /-</u>	<u>A61P 3 /-</u>	<u>A61Q 19 /-</u>	<u>B01D 71 /-</u>	<u>B07B 1 /-</u>
2023287677	2023297070	2022479909	2023312966	2023361646	2023289152
2023289139	2023343569	2023317510	2023321673	<u>B01F 27 /-</u>	<u>B08B 15 /-</u>
2023312966	2023343570	2023346372	<u>A61Q 5 /-</u>	2023446744	2023310047
2023321673	2023343571		2023287677	<u>B01F 35 /-</u>	<u>B08B 9 /-</u>
2023324468	2023343572	<u>A61P 31 /-</u>	2023289139	2023446741	2023288923
2023331491	2023343573 2023343574	2022476747	2023324468	<u>B01J 19 /-</u>	<u>B22D 11 /-</u>
<u>A61K 9 /-</u>	<u>A61N 1 /-</u>	2023298469	<u>A62D 1 /-</u>	2023446721	2023333748 2023335215
2022476747	2022472044	2023300970	2023299241	<u>B01J 23 /-</u>	<u>B22D 41 /-</u>
2022479909	2023289361	2023319159	<u>A62D 3 /-</u>	2023311258	2023333748
2023289786	2023289662	2023323947	2023310047	<u>B01J 35 /-</u>	<u>B23K 15 /-</u>
2023298072	2023295198	<u>A61P 33 /-</u>	<u>A63J 17 /-</u>	2023311258	2023302872
2023300970	2023308946	2023316589	2023449906	<u>B01J 8 /-</u>	<u>B23K 26 /-</u>
2023310044		<u>A61P 35 /-</u>	<u>B01D 15 /-</u>	2023446744	2023288923 2023302872
2023311967	<u>A61P 1 /-</u>	2022479909	2023309560	<u>B01L 3 /-</u>	<u>B23K 9 /-</u>
2023314589	2023315888	2023287610		2023331065	2023302872
2023319159	2023319159	2023287691	<u>B01D 3 /-</u>	<u>B02C 23 /-</u>	<u>B24B 55 /-</u>
2023320243	<u>A61P 11 /-</u>	2023289707	2023446721	2023446731	2023303357
2023324461	2023309139	2023296925	2023446731	<u>B01D 39 /-</u>	<u>B25C 5 /-</u>
2023329098	2023309588	2023300477		2023306787	2023342792
2023331491	2023324461	2023302931	<u>B01D 45 /-</u>	2023311258	2023309326
<u>A61L 15 /-</u>	<u>A61P 13 /-</u>	2023304031	<u>B01D 46 /-</u>	<u>B03D 1 /-</u>	<u>B25J 9 /-</u>
2023329098	2023306100	2023306375	<u>B01D 47 /-</u>	2023312358	2023309554
<u>A61L 2 /-</u>	<u>A61P 15 /-</u>	2023306432	2023306185	<u>B03D 101 /-</u>	<u>B27F 7 /-</u>
2023312206	2023300371	2023307163	<u>B01D 5 /-</u>	2023321811	2023342792
<u>A61L 24 /-</u>	2023309139	2023307182	2023446731	<u>B05B 12 /-</u>	<u>B27N 3 /-</u>
2023298072	<u>A61P 19 /-</u>	2023308303	<u>B01D 50 /-</u>	<u>B05B 13 /-</u>	2023309326
2023314418	2023309139	2023312111	2023306185	2023321811	<u>B28B 19 /-</u>
<u>A61L 27 /-</u>	<u>A61P 21 /-</u>	2023312809	<u>B01D 53 /-</u>	<u>B05B 15 /-</u>	2023362009
2023307842	2023303077	2023313120		2023298116	<u>B28C 5 /-</u>
2023309027	<u>A61P 25 /-</u>	2023314152		<u>B05B 9 /-</u>	2023362009
2023311587	2023309139	2023314402			
<u>A61M 1 /-</u>	2023309139	2023316483			
2023312206	<u>A61P 25 /-</u>	2023320054			
2023319965	2023289786	2023320110			
<u>A61M 15 /-</u>	2023308185	2023320568			
2022476747	<u>A61P 25 /-</u>	2023321897			
<u>A61M 16 /-</u>	2023309139	2023325023			
2023289785	2023287695	2023325128			
<u>A61M 25 /-</u>	2023289905	2024287276			
2023312415	2023320529	<u>A61P 37 /-</u>			
2023311806	2023321872	2023296925			
2023320452	2024202439	2023325023			
2023343570	2024202447	<u>A61P 43 /-</u>			
2023343571	2024202475	2022474541			
	2024202518	2023304031			
		2023311587			
		2023312415			

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<u>B28C 7 /-</u>	<u>B61L 3 /-</u>	<u>B64U 10 /-</u>	<u>B66B 1 /-</u>	<u>C04B 14 /-</u>	<u>C07C 241 /-</u>
2023362009	2023289782	2023297141	2022475498 2023313309	2023289153	2023307165
<u>B29C 44 /-</u>	<u>B62B 3 /-</u>	<u>B64U 20 /-</u>	<u>B66F 3 /-</u>	<u>C04B 16 /-</u>	<u>C07C 243 /-</u>
2023311890	2023307459	2023297141	2023311213	2023289153	2023307165 2023320479
<u>B29C 49 /-</u>	<u>B62B 5 /-</u>	<u>B64U 30 /-</u>	<u>B67D 7 /-</u>	<u>C04B 18 /-</u>	<u>C07C 251 /-</u>
2023309463 2023336149	2023307459	2023297141	2023308854 2023311817	2023289152	2023320479
<u>B29L 31 /-</u>	<u>B62B 7 /-</u>	<u>B64U 50 /-</u>	<u>B81B 3 /-</u>	<u>C04B 22 /-</u>	<u>C07C 257 /-</u>
2023336149	2023309788	2023297141	2023311137	2023309028 2023309583	2023320479
<u>B60B 15 /-</u>	<u>B62B 9 /-</u>	<u>B65D 1 /-</u>	<u>B81B 7 /-</u>	<u>C04B 24 /-</u>	<u>C07C 259 /-</u>
2023314872	2023309788	2023336149	2023311137	2023309029	2023320479
<u>B60B 9 /-</u>	<u>B63B 39 /-</u>	<u>B65D 17 /-</u>	<u>C01B 21 /-</u>	<u>C04B 28 /-</u>	<u>C07C 29 /-</u>
2023309788	2023314409 2023315857	2023313078	2023311258	2023289152 2023289153 2023309028 2023309029 2023309583 2023314816 2023316020	2023317482 2023323419 2023323420
<u>B60C 11 /-</u>	<u>B63B 79 /-</u>	2023320010	<u>C01B 3 /-</u>		<u>C07C 303 /-</u>
2023314872	2023314409 2023315857	<u>B65D 71 /-</u>	2023302872 2023310555 2023310811 2023317517 2023323419 2023323420		2023313399
<u>B60C 7 /-</u>	<u>B63H 11 /-</u>	2023317501 2023317559		<u>C04B 38 /-</u>	<u>C07C 309 /-</u>
2023309788	2023330901	<u>B65D 85 /-</u>		2023362009	2023313399
<u>B60D 1 /-</u>	<u>B64C 11 /-</u>	2023318508 2023320010	<u>C01B 32 /-</u>	<u>C04B 40 /-</u>	<u>C07C 31 /-</u>
2023311213	2023298309		2023317482	2023309583	2023317482
<u>B60K 6 /-</u>	<u>B64C 3 /-</u>	<u>B65F 1 /-</u>	<u>C01F 11 /-</u>	<u>C05F 5 /-</u>	<u>C07C 311 /-</u>
2023312509	2023298309	2023307459	2023314461	2023310946	2023320479
<u>B60L 5 /-</u>	<u>B64C 39 /-</u>	<u>B65F 3 /-</u>	<u>C01F 5 /-</u>	<u>C07B 59 /-</u>	<u>C07C 327 /-</u>
2023288120 2023288942 2023289782	2023297141	2023307459	2023314461	2023289905	2023320479
<u>B60L 50 /-</u>	<u>B64C 9 /-</u>	<u>B65G 1 /-</u>	<u>C01G 49 /-</u>	<u>C07C 1 /-</u>	<u>C07C 335 /-</u>
2023289782	2023298309	2023302038 2023302056 2023316745 2023342792	2024266886	2023317482	2023307165
<u>B60L 53 /-</u>	<u>B64D 1 /-</u>	20233046908	<u>C02F 1 /-</u>	<u>C07C 11 /-</u>	<u>C07C 41 /-</u>
2023288120 2023289782 2023304616 2023304707	2023314715	<u>B65G 15 /-</u>	2023305009 2023446733	2023317482	2023310811
<u>B60L 58 /-</u>	<u>B64D 17 /-</u>	2023342792	<u>C02F 103 /-</u>	<u>C07C 205 /-</u>	<u>C07C 43 /-</u>
2023288120	2023299012	<u>B65G 17 /-</u>	2023305009	2023307165	2023310811
<u>B60N 2 /-</u>	<u>B64D 27 /-</u>	<u>B65G 43 /-</u>	<u>C02F 3 /-</u>	<u>C07C 231 /-</u>	<u>C07C 51 /-</u>
2023310994	2023316788	2023309285 2023346908	2023315292	2024202698	2023314461
<u>B60S 9 /-</u>	<u>B64G 1 /-</u>	<u>B65H 29 /-</u>	<u>C04B 103 /-</u>	<u>C07C 233 /-</u>	<u>C07C 59 /-</u>
2023311213	2022464278	2023304627	2023309028 2023309029 2023309583	2023316589 2023317510	2023314461
<u>B61L 25 /-</u>	<u>B64G 3 /-</u>	<u>B65H 31 /-</u>	<u>C04B 111 /-</u>	<u>C07C 237 /-</u>	<u>C07C 69 /-</u>
2023289782	2022471676 2023308184	2023304627	2023309029 2023309583	2024202698	2023320479
	2023308184			<u>C07C 239 /-</u>	<u>C07D 209 /-</u>
				2023320479	2023288538 2023311967 2023316589

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<u>C07D 211 /-</u>	2023316589	2023320568	<u>C08K 3 /-</u>	2023311587	2023446741
	<u>C07D 417 /-</u>	2023321869		2023314109	2023446744
2023307165		2023323947	2023314461	2023320447	2023449907
	2023300707	2023329330	<u>C08K 5 /-</u>	2024287276	<u>C22B 3 /-</u>
<u>C07D 213 /-</u>	2023320110	<u>C07K 16 /-</u>	2023286757	<u>C12N 5 /-</u>	2023310047
2023307165	<u>C07D 471 /-</u>	2023286689		2023300371	2023446718
2023312415		2023297134	<u>C08L 1 /-</u>	2023300477	2023446721
2023316589	2023287610	2023306100		2023302579	2023446731
2023320479	2023289905	2023306375	2023309326	2023307842	2023446736
<u>C07D 231 /-</u>	2023296925	2023306432	<u>C08L 67 /-</u>	2023310044	2023446740
	2023307165	2023309588		2023311587	2023446742
2023300707	2023309139	2023310484	2023325853	2023314130	2023446744
2023316589	2023312809	2023314130	<u>C09K 3 /-</u>	2023320447	2023449907
	2023316589	2023314152		2023320547	<u>C22B 59 /-</u>
<u>C07D 235 /-</u>	2023325128	2023314276	2023310047	<u>C12N 7 /-</u>	2023446731
	<u>C07D 473 /-</u>	2023315888		2023298469	<u>C22B 7 /-</u>
2023316589		2023320447	<u>C09K 8 /-</u>	<u>C12N 9 /-</u>	2023311258
<u>C07D 249 /-</u>	2023314152	2023320453		2023309295	<u>C22B 9 /-</u>
	2023320243	2023320547	2023307229	2023314276	2023446733
2023307165	<u>C07D 487 /-</u>	2023320568	2023309028		<u>C23F 11 /-</u>
<u>C07D 251 /-</u>		2023324170	2023309029		2023310047
	2023287610	2023329330	2023309583	<u>C12P 21 /-</u>	<u>C25B 1 /-</u>
2023357342	2023309139	2023343470	<u>C10G 2 /-</u>	2023329330	2023305009
<u>C07D 261 /-</u>	2023312111	<u>C07K 19 /-</u>		<u>C12Q 1 /-</u>	2023313285
	2023312809	2023320453	2023317517		2023351417
2023316589	2023320110	2023323947	2023323420	<u>C12R 1 /-</u>	<u>C25B 13 /-</u>
	2023325128	2024287276	<u>C10L 1 /-</u>	2023331491	<u>C25B 15 /-</u>
<u>C07D 263 /-</u>	<u>C07D 491 /-</u>	<u>C07K 5 /-</u>		2023331491	2023289511
		2023314152	2023313075	<u>C21B 13 /-</u>	2023313285
2023316589	2023306432	<u>C07K 7 /-</u>	2023324480		2023351417
<u>C07D 271 /-</u>	<u>C07D 498 /-</u>		2023324483	<u>C21B 3 /-</u>	<u>C25B 13 /-</u>
	2023325128	<u>C07K 9 /-</u>	<u>C10L 10 /-</u>	2024266886	<u>C25B 15 /-</u>
2023316589		2023289707		<u>C21B 7 /-</u>	2023289511
<u>C07D 401 /-</u>	<u>C07D 513 /-</u>	2023323947	2023313075		2023313285
	2023296925	<u>C07K 9 /-</u>	2023324480	<u>C21B 3 /-</u>	<u>C25B 9 /-</u>
2023287610	<u>C07D 519 /-</u>	2023320453	2023324483	2024266886	2023289511
2023307165		<u>C08F 220 /-</u>	<u>C11D 3 /-</u>		2023305009
2023312415	2023320110	2023298072	2023331491	<u>C21B 7 /-</u>	2023313285
2023312809	2023325128		<u>C12G 3 /-</u>	2024266886	<u>C25B 9 /-</u>
2023314402	<u>C07F 5 /-</u>	<u>C08F 226 /-</u>	2023311559		2023289511
2023316483		2023298072	<u>C12M 3 /-</u>	<u>C21C 7 /-</u>	2023305009
2023316589	2023307165	<u>C08G 63 /-</u>		2023335215	2023313285
<u>C07D 403 /-</u>	<u>C07F 7 /-</u>	2023325853	<u>C12N 3 /-</u>	<u>C22B 1 /-</u>	<u>C25C 1 /-</u>
	2024202698	<u>C08G 77 /-</u>	<u>C12N 1 /-</u>	2024266886	2023310047
<u>C07D 405 /-</u>	<u>C07H 15 /-</u>	2023339805		2024278104	<u>C25C 7 /-</u>
	2024202698	<u>C08J 3 /-</u>	2023310946	<u>C22B 11 /-</u>	2023310047
2023288538	<u>C07H 21 /-</u>	2023309027	2023319159		<u>D01D 5 /-</u>
2023307165		<u>C08J 5 /-</u>	2023331491	2023311258	2023339805
2023312415	2023307182	2023309326	<u>C12N 11 /-</u>	<u>C22B 21 /-</u>	<u>D01F 1 /-</u>
2023312809	2024202698	<u>C08J 9 /-</u>	<u>C12N 15 /-</u>	2023446731	2023339805
2023314402	<u>C07J 9 /-</u>			<u>C22B 23 /-</u>	<u>D03D 1 /-</u>
2023316483		<u>C08J 9 /-</u>	2023297134	2023446718	2023307565
2023316589	2023287695	2023311890	2023298469	2023446721	
<u>C07D 409 /-</u>	<u>C07K 14 /-</u>		2023300477	2023446731	
			2023309560	2023446736	
2023300707	2023314130		2023310484	2023446740	
2023320110	2023320447				
<u>C07D 413 /-</u>	2023320529				
2023316483					

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<u>D03D 15 /-</u>			<u>F16C 17 /-</u>	<u>F25B 47 /-</u>	2023300709
2023307565	<u>E03F 5 /-</u>	<u>F01K 13 /-</u>	2023343570	2023313254	2023301415
	2023304404	2023358207	2023343571		2023306100
<u>D04C 1 /-</u>			2023343574	<u>F25J 3 /-</u>	2023309560
2023312999	<u>E04B 1 /-</u>	<u>F01K 21 /-</u>			2023314276
	2023323051	2022471264	<u>F16J 15 /-</u>	2023310555	2023320450
<u>D04C 3 /-</u>			2023321591	<u>F27D 27 /-</u>	2023321869
2023312999	<u>E04D 13 /-</u>	<u>F01K 23 /-</u>			2023329330
	2023306785	2022471264	<u>F16K 1 /-</u>	2023335215	2023343153
<u>D04H 1 /-</u>			2023330355	<u>F28C 3 /-</u>	<u>G01N 35 /-</u>
2023309326	<u>E04G 21 /-</u>	<u>F01K 3 /-</u>	<u>F16K 17 /-</u>	2023446721	2023331065
	2023289153	2023318638			<u>G01N 9 /-</u>
<u>D06F 103 /-</u>	<u>E04H 4 /-</u>	<u>F01M 11 /-</u>	2023315874	<u>F28D 20 /-</u>	2023297839
2023418145		2023304388	<u>F16K 27 /-</u>	2023318638	<u>G01R 15 /-</u>
<u>D06F 105 /-</u>	<u>E05D 15 /-</u>	<u>F02C 7 /-</u>	2023330355	<u>F41H 5 /-</u>	2023342842
2023418145		2022471264	<u>F16L 13 /-</u>	2023307565	<u>G01R 23 /-</u>
<u>D06F 33 /-</u>	2023306527		2023302872	<u>G01F 1 /-</u>	2023342842
	<u>E06B 3 /-</u>	<u>F03D 13 /-</u>	<u>F16L 3 /-</u>	2023300208	<u>G01R 29 /-</u>
2023418145		2023296927			<u>G01R 31 /-</u>
<u>D21C 9 /-</u>	2023306527		2023302038	<u>G01F 23 /-</u>	2023342842
	<u>E06B 7 /-</u>	<u>F03D 3 /-</u>	<u>F16L 33 /-</u>	2023304388	
2023309326		2023341638		<u>G01J 1 /-</u>	2023298147
<u>D21H 11 /-</u>	<u>E06B 9 /-</u>	<u>F03D 7 /-</u>	2023343932		<u>G01R 33 /-</u>
2023309326		2023316266	<u>F16L 55 /-</u>	2023308884	
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2023339805	2023309029	<u>F04B 17 /-</u>	<u>F22B 3 /-</u>	2023333953	2023302121
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2023353009	<u>G06F 9 /-</u>	2023306149	<u>G16B 40 /-</u>	2023331399	<u>H04L 69 /-</u>
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	2023317491		2023320450		
2023299070	2023338229	2023312724	<u>G16H 10 /-</u>	2023302038	<u>H04L 9 /-</u>
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2023353011	<u>G06N 3 /-</u>	2023289632	2023315782	2023322662	<u>H04N 19 /-</u>
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2023353011	2023353010	<u>G16B 30 /-</u>	<u>H01M 8 /-</u>	2023308516	<u>H04W 74 /-</u>
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A61C 7/00 (2006.01)
B33Y 80/00 (2015.01)
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B09B 101/55 (2022.01)
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C22B 5/08 (2006.01)
C22B 5/16 (2006.01)
C22B 7/00 (2006.01)
C22B 7/04 (2006.01)
C22B 11/00 (2006.01)
C22B 15/00 (2006.01)
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A61P 25/00 (2006.01)
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F16B 7/18 (2006.01)
E04C 5/16 (2006.01)
E04B 1/58 (2006.01)
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B60Q 9/00 (2006.01)
B60T 8/32 (2006.01)
B61L 29/00 (2006.01)
B64F 1/02 (2006.01)
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C07D 487/04 (2006.01)
A61K 31/519 (2006.01)
A61P 9/00 (2006.01)
A61P 25/00 (2006.01)
A61P 29/00 (2006.01)
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A47C 4/02 (2006.01)

A47C 7/54 (2006.01)

F16B 12/26 (2006.01)

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A47C 1/024 (2006.01)

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(51) Int. Cl.

A47C 1/024 (2006.01)

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A47C 4/02 (2006.01)

A47C 7/72 (2006.01)

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H01L 21/768 (2006.01)

H01L 23/00 (2006.01)

H01L 25/065 (2023.01)

G06N 10/40 (2022.01)

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A61N 1/36 (2006.01)

A61B 5/00 (2006.01)

A61N 1/00 (2006.01)

A61N 1/02 (2006.01)

A61N 1/05 (2006.01)

A61N 1/18 (2006.01)

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(51) Int. Cl.

A61B 5/00 (2006.01)

A61B 5/024 (2006.01)

A61B 5/0245 (2006.01)

A61B 5/352 (2021.01)

A61F 13/537 (2006.01)

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C07K 16/24 (2006.01)
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A61P 19/00 (2006.01)
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B62M 3/08 (2006.01)
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H01M 6/52 (2006.01)
H01M 10/54 (2006.01)
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D01F 9/04 (2006.01)

D01F 1/10 (2006.01)

D06M 15/37 (2006.01)

D06P 1/52 (2006.01)

D06M 101/04 (2006.01)

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G06Q 30/06 (2012.01)

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A61K 9/14 (2006.01)

A61K 31/5578 (2006.01)

A61K 31/727 (2006.01)

A61K 47/34 (2017.01)

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G06F 21/10 (2013.01)
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G01R 31/302 (2006.01)
H02H 3/14 (2006.01)
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A61B 90/00 (2016.01)
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B05B 1/28 (2006.01)
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B63H 9/06 (2020.01)
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H05K 7/20 (2006.01)
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A23L 2/00 (2006.01)
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C07K 5/078 (2006.01)
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C07C 17/25 (2006.01)
C08J 9/14 (2006.01)
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C07K 14/745 (2006.01)
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C07K 7/64 (2006.01)
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H01R 13/62 (2006.01)
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C11D 1/83 (2006.01)
C11D 1/02 (2006.01)
C11D 1/29 (2006.01)
C11D 1/37 (2006.01)
C11D 3/00 (2006.01)
C11D 3/37 (2006.01)
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B26D 1/03 (2006.01)
B26D 1/36 (2006.01)
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(74) Davies Collison Cave Pty Ltd

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B63B 39/04 (2006.01)
F16C 37/00 (2006.01)
F16F 15/315 (2006.01)
G01C 19/02 (2006.01)
H02K 7/02 (2006.01)
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(11) AU-B-2021377628
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A47D 9/00 (2006.01)
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(54) HIGH THERMAL COEFFICIENT GROUT COMPOSITIONS AND METHODS THEREFOR
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C09K 8/467 (2006.01)
C04B 28/04 (2006.01)
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C04B 40/00 (2006.01)
E21B 33/14 (2006.01)
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B65D 85/10 (2006.01)
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(71) Zero Emission Industries, Inc.
(11) AU-B-2023202973
(21) 2023202973 (22) 12.05.2023
(54) GASEOUS FUELING SYSTEM
(51) Int. Cl.
F17C 5/06 (2006.01)
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(72) PRATT, Joseph; NARVAEZ, Adrian; TERLIP, Daniel
(74) IP GATEWAY PATENT & TRADE MARK ATTORNEYS PTY LTD

(71) ZETCO VALVES PTY LTD
(11) AU-B-2019283939
(21) 2019283939 (22) 19.12.2019
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F16K 11/087 (2006.01)
F16K 5/06 (2006.01)
F16K 5/14 (2006.01)
F16K 11/22 (2006.01)
F16K 27/06 (2006.01)
F16L 55/07 (2006.01)
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(71) Zhejiang Jinko Solar Co., Ltd.; Jinko Solar Co., Ltd.
(11) AU-B-2023202291
(21) 2023202291 (22) 13.04.2023
(54) SOLAR CELL, METHOD FOR PREPARING SAME, AND PHOTOVOLTAIC MODULE
(51) Int. Cl.
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H10F 19/31 (2025.01)
H10F 19/80 (2025.01)
H10F 71/00 (2025.01)
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(74) Madderns Pty Ltd

(71) Zimmer, Inc.
(11) AU-B-2023285867
(21) 2023285867 (22) 21.12.2023
(54) ANTI-LUXATION VIA VARIOUS TECHNIQUES AND APPARATUSES
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A61F 2/38 (2006.01)
A61F 2/30 (2006.01)
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(74) PHILLIPS ORMONDE FITZPATRICK

(71) ZTE CORPORATION
(11) AU-B-2021420292
(21) 2021420292 (22) 14.01.2021
(54) METHOD AND APPARATUS FOR SURVIVAL TIME AND COMMUNICATION SERVICE AVAILABILITY
(51) Int. Cl.
H04L 1/08 (2006.01)
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(71) Zurimed Technologies AG
(11) AU-B-2019269973
(21) 2019269973 (22) 12.05.2019
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(51) Int. Cl.
A61B 17/04 (2006.01)
A61F 2/08 (2006.01)
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SNEDEKER, Jess

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2018205808	Momenta Pharmaceuticals, Inc.	2019310098	Targan, Inc.
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2018289549	Ganeden Biotech, Inc.; Keller, D.	2019344027	Redwave Medical GmbH
2018295994	Hanmi Pharm. Co., Ltd.	2019344922	BioGen MA Inc.
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2018314236	City of Hope; Apterna Limited	2019346361	PepsiCo, Inc.
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2021250986	Genzyme Corporation	2023200527	Stout Industrial Technology, Inc.
2021258053	Allergan, Inc.	2023200671	The Regents of the University of California
2021258330	Impact Technologies VI	2023200765	GE Video Compression, LLC
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2022204729	Krystal Biotech, Inc.	2023214218	Composecure, LLC
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2022221516	Illinois Tool Works Inc.	2023216884	TRU Zip LLC
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2022232691	UNILEVER GLOBAL IP LIMITED	2023251421	Outdoor Wireless Networks LLC
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			2023203860		
			2023206127		

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2020268374	<u>A61P 25 /-</u>	2022287678	<u>B26D 1 /-</u>	<u>B60R 9 /-</u>	<u>B65D 55 /-</u>
2020393814	2019259230	<u>A63B 69 /-</u>	2022262731	2023203526	2019271418
2023202115	2019344922	2023214372	<u>B26D 3 /-</u>	<u>B60S 3 /-</u>	2021338896
<u>A61M 29 /-</u>	2019346028	<u>B01D 29 /-</u>	2022262731	2020215499	<u>B65D 6 /-</u>
2019330795	2019356011	2019281324	<u>B26D 7 /-</u>	<u>B60T 8 /-</u>	2022267027
<u>A61M 31 /-</u>	2020215150	<u>B01D 35 /-</u>	2022262731	2021258330	<u>B65D 65 /-</u>
2021305336	2022279366	2019281324	<u>B29C 65 /-</u>	<u>B61C 17 /-</u>	2018436648
2023266255	2022283611	<u>B01D 61 /-</u>	2018427211	2022266762	2019370550
<u>A61M 36 /-</u>	2023203860	2022291544	<u>B29D 30 /-</u>	<u>B61K 9 /-</u>	2022267027
2021204263	<u>A61P 27 /-</u>	<u>B01D 9 /-</u>	2023214220	2020482144	2018436648
<u>A61M 39 /-</u>	2018342094	2022291544	<u>B32B 15 /-</u>	<u>B61L 29 /-</u>	<u>B65D 77 /-</u>
2019269627	2019346028	<u>B01J 19 /-</u>	2022243365	2021258330	2022267027
2019295617	2022208128	2022259545	<u>B32B 27 /-</u>	<u>B62M 3 /-</u>	<u>B65D 81 /-</u>
2022291578	2022283611	<u>B02C 19 /-</u>	2018427211	2019277367	2023382013
<u>A61M 5 /-</u>	2023203427	2020207237	2023382013	<u>B63B 15 /-</u>	<u>B65D 85 /-</u>
2018342094	2023203860	<u>B02C 21 /-</u>	2023382013	2019319120	2018436648
2019306021	<u>A61P 3 /-</u>	2020207237	<u>B33Y 80 /-</u>	<u>B63B 21 /-</u>	<u>B65G 1 /-</u>
2019330795	2019248829	<u>B02C 23 /-</u>	2019262641	2019396568	2021335275
2020268890	2019344922	2020207237	<u>B60C 13 /-</u>	<u>B63B 39 /-</u>	<u>B65H 23 /-</u>
2020322457	2019346028	<u>B03C 1 /-</u>	2023214220	2021330667	2020216456
2023270272	2020296094	2021471055	<u>B60K 1 /-</u>	<u>B63H 9 /-</u>	<u>B65H 59 /-</u>
<u>A61M 60 /-</u>	2021409688	<u>B05B 1 /-</u>	2020312428	2019319120	2020216456
2022389899	2023203860	2023200527	2020312542	<u>B64C 3 /-</u>	<u>B66C 1 /-</u>
<u>A61N 1 /-</u>	<u>A61P 31 /-</u>	<u>B05B 13 /-</u>	<u>B60K 11 /-</u>	2020200249	2019308883
2018414327	2019346028	2023200527	2020312428	<u>B64F 1 /-</u>	<u>B66F 13 /-</u>
2019255373	<u>A61P 35 /-</u>	<u>B08B 3 /-</u>	2020312542	2021258330	2019253822
2019255377	2018288571	2023201332	<u>B60K 17 /-</u>	<u>B65D 21 /-</u>	<u>B66F 3 /-</u>
2019401677	2019255765	<u>B09B 101 /-</u>	2020312428	2022267027	2019253822
202227534	2019269361	2022316599	2020312542	<u>B65D 25 /-</u>	<u>B66F 7 /-</u>
2023200185	2019344922	2024204799	2021443789	2023382013	2019253822
<u>A61N 5 /-</u>	2019346028	<u>B09B 3 /-</u>	<u>B60P 1 /-</u>	<u>B65D 33 /-</u>	<u>B66F 9 /-</u>
2020329429	2020214494	2022316599	2020215499	2023216884	2019308883
<u>A61P 1 /-</u>	2020361337	<u>B23K 9 /-</u>	<u>B60P 3 /-</u>	<u>B65D 39 /-</u>	<u>B81B 7 /-</u>
2019318538	2021213421	2020234058	2018274964	2021338896	2022286586
<u>A61P 17 /-</u>	2022203560	<u>B25J 15 /-</u>	<u>B60Q 9 /-</u>	<u>B65D 41 /-</u>	<u>B82Y 30 /-</u>
2020338139	2022283611	2022248740	2021258330	2019271418	2019255765
2022204729	2023203860	<u>B25J 9 /-</u>	<u>B60R 11 /-</u>	<u>B65D 5 /-</u>	<u>C01B 25 /-</u>
<u>A61P 19 /-</u>	2023204286	2022248740	2023203526	2019370550	2022291544
2018219593	<u>A61P 37 /-</u>	<u>B09B 101 /-</u>		2023382013	
2023203427	2017379853	2022316599			
2023203860	2020286444	2024204799			
<u>A61P 21 /-</u>	<u>A61P 9 /-</u>	<u>B09B 3 /-</u>			
2019226551	2019346028	2022316599			
2022280757	2022283611	2024204799			
2023203860	<u>A61Q 15 /-</u>	<u>B23K 9 /-</u>			
<u>A61P 23 /-</u>	2022298918	2020234058			
2022290669	<u>A61Q 19 /-</u>	<u>B25J 15 /-</u>			
	2020252137	2022248740			
	2021258053	<u>B25J 9 /-</u>			
	2022275391	2022248740			
	<u>A62B 18 /-</u>				

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<u>C01D 15 /-</u>	<u>C07D 311 /-</u>	2020215150	2018427211	<u>C22B 1 /-</u>	<u>E01C 9 /-</u>
2022291544	2023203860	<u>C07J 9 /-</u>	<u>C09K 3 /-</u>	2023285789	2021258330
<u>C02F 1 /-</u>	<u>C07D 319 /-</u>	2022279366	2023204306	<u>C22B 11 /-</u>	<u>E01F 13 /-</u>
2019282630	2023203860	<u>C07K 1 /-</u>	<u>C09K 5 /-</u>	2022316599	2021258330
<u>C04B 103 /-</u>	<u>C07D 401 /-</u>	2018326458	2023204306	2023285789	<u>E02D 27 /-</u>
2023214420	2019346028	<u>C07K 14 /-</u>	<u>C09K 8 /-</u>	<u>C22B 15 /-</u>	2021448991
<u>C04B 28 /-</u>	2019356011	2017396503	2023214420	2022316599	<u>E02F 9 /-</u>
2023214420	2019381817	2018205629	<u>C11D 1 /-</u>	2023285789	2020215499
<u>C04B 40 /-</u>	<u>C07D 403 /-</u>	2018288571	2022232691	<u>C22B 19 /-</u>	<u>E04B 1 /-</u>
2023214420	2019356011	2018312856	<u>C11D 3 /-</u>	2022316599	2022221516
<u>C07C 17 /-</u>	<u>C07D 405 /-</u>	2018346765	2022232691	<u>C22B 21 /-</u>	<u>E04B 5 /-</u>
2023204306	2019346028	2019206425	<u>C12G 3 /-</u>	2023285789	2018387263
<u>C07C 233 /-</u>	2022269229	2019318538	2019388008	<u>C22B 26 /-</u>	<u>E04C 5 /-</u>
2023203860	2023201013	2020361337	<u>C12M 1 /-</u>	2023285789	2022221516
<u>C07C 235 /-</u>	2023203860	2021203836	2022380016	<u>C22B 3 /-</u>	<u>E04D 5 /-</u>
2023203860	<u>C07D 413 /-</u>	2021250986	<u>C12N 1 /-</u>	2023285789	2018427211
<u>C07C 237 /-</u>	2023203860	2022204729	2019224738	<u>C22B 47 /-</u>	<u>E04G 23 /-</u>
2023203860	<u>C07D 417 /-</u>	2022268345	2019272604	2023285789	2019253822
<u>C07C 315 /-</u>	2019344922	<u>C07K 16 /-</u>	<u>C12N 15 /-</u>	<u>C22B 5 /-</u>	<u>E04H 1 /-</u>
2020296094	2019346028	2017379853	2018288571	2022316599	2018385894
<u>C07C 317 /-</u>	2019356011	2017396503	2018312856	<u>C22B 7 /-</u>	<u>E04H 4 /-</u>
2020296094	<u>C07D 471 /-</u>	2017398101	2018388071	2022316599	2022215289
<u>C07C 51 /-</u>	2019245403	2017414703	2019206425	2023285789	<u>E21B 19 /-</u>
2020296094	2020214494	2018205629	2019255765	<u>C23C 28 /-</u>	2020231598
<u>C07C 59 /-</u>	2020240255	2018205808	2021203836	<u>D01F 1 /-</u>	<u>E21B 21 /-</u>
2020296094	2020251400	2018266711	2022204606	2022273103	<u>E21B 23 /-</u>
<u>C07C 67 /-</u>	2023201013	2019206425	2022204729	<u>D01F 9 /-</u>	2020259264
2020296094	<u>C07D 487 /-</u>	2019312139	2022268345	<u>D06M 101 /-</u>	<u>E21B 27 /-</u>
<u>C07C 69 /-</u>	2019245403	2020286444	<u>C12N 3 /-</u>	<u>D06M 15 /-</u>	2020231598
2020296094	2019356011	2020361337	2019272604	<u>D06P 1 /-</u>	<u>E21B 33 /-</u>
<u>C07C 59 /-</u>	2022269229	2022203560	<u>C12N 5 /-</u>	2022273103	2020259264
2020296094	2022283611	2023204286	<u>C12N 7 /-</u>	<u>D06P 1 /-</u>	2023214420
<u>C07C 67 /-</u>	2023201013	<u>C07K 19 /-</u>	<u>C12N 9 /-</u>	<u>E01B 27 /-</u>	<u>F01L 7 /-</u>
2020296094	<u>C07D 491 /-</u>	2022204729	2018254410	<u>E01B 35 /-</u>	<u>F02M 26 /-</u>
<u>C07C 69 /-</u>	2019245403	<u>C07K 5 /-</u>	2018295994	2020482144	2019202002
2020296094	2019356011	2019388008	2022204729		<u>F02N 11 /-</u>
<u>C07C 59 /-</u>	2022269229	<u>C07K 7 /-</u>	2022268345		2023285753
2020296094	2022283611	2019318538	<u>C12Q 1 /-</u>		
<u>C07C 67 /-</u>	2023201013	<u>C08F 236 /-</u>			
2020296094	<u>C07D 493 /-</u>	2019262641			
<u>C07C 69 /-</u>	2023203860	<u>C08G 18 /-</u>			
2020296094	2019346028	2019262641			
<u>C07D 207 /-</u>	<u>C07D 495 /-</u>	<u>C08G 63 /-</u>			
2023203860	2019346028	2019387637			
<u>C07D 209 /-</u>	<u>C07D 498 /-</u>	<u>C08J 5 /-</u>			
2023203860	2019346028	2024204799			
<u>C07D 265 /-</u>	<u>C07D 519 /-</u>	<u>C08J 9 /-</u>			
2023203860	2022269229	2023204306			
<u>C07D 307 /-</u>	2022283611	<u>C09J 7 /-</u>			
2023203860	2023201013				
<u>C07F 9 /-</u>					

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<u>F02N 19 /-</u>	<u>F16J 15 /-</u>	2020244753	<u>G06Q 20 /-</u>	<u>H01H 13 /-</u>	<u>H02M 3 /-</u>
2023285753	2022259856	<u>G01N 27 /-</u>	2019346361	2019377162	2019448063
<u>F03B 13 /-</u>	<u>F16K 11 /-</u>	2019354730	<u>G06Q 30 /-</u>	<u>H01H 21 /-</u>	<u>H02M 7 /-</u>
2019370034	2019283939	2023200237	2019346361	2019377162	2019448063
<u>F03D 1 /-</u>	<u>F16K 27 /-</u>	<u>G01N 30 /-</u>	2019387166	<u>H01H 3 /-</u>	2022208865
2018435409	2019283939	2019354730	<u>G06Q 50 /-</u>	2019377162	<u>H02S 40 /-</u>
<u>F03D 13 /-</u>	<u>F16K 31 /-</u>	<u>G01N 33 /-</u>	2021351349	<u>H01L 21 /-</u>	2022208865
2018435409	2023268997	2018205629	2023201782	2021399002	<u>H04B 7 /-</u>
<u>F03D 3 /-</u>	<u>F16K 37 /-</u>	2018340865	<u>G06V 10 /-</u>	<u>H01L 23 /-</u>	2019451532
2018435409	2023268997	2018346765	2020231356	2021399002	2020257183
<u>F03D 80 /-</u>	<u>F16K 5 /-</u>	2021203836	<u>G07F 11 /-</u>	<u>H01L 25 /-</u>	2023203210
2018435409	2019283939	2023202704	2019346361	2021399002	<u>H04L 1 /-</u>
<u>F04D 17 /-</u>	<u>F16K 7 /-</u>	<u>G01R 31 /-</u>	<u>G08G 1 /-</u>	<u>H01M 10 /-</u>	2021420292
2022229537	2023268997	2023206146	2019346361	2023285789	2023216863
<u>F04D 27 /-</u>	<u>F16L 55 /-</u>	<u>G01S 13 /-</u>	<u>G08G 5 /-</u>	<u>H01M 6 /-</u>	<u>H04L 12 /-</u>
2022212455	2019283939	2019204291	2019204291	2023285789	2019451532
<u>F04D 29 /-</u>	<u>F16M 7 /-</u>	<u>G02B 27 /-</u>	2024204790	<u>H01R 13 /-</u>	<u>H04L 69 /-</u>
2022212455	2019253822	2019294617	<u>G09C 1 /-</u>	2023251421	2019387166
2022215289	<u>F17C 5 /-</u>	<u>G05B 13 /-</u>	2019425357	2023285753	<u>H04L 9 /-</u>
<u>F16B 12 /-</u>	2023202973	<u>G05B 17 /-</u>	2024204790	<u>H01R 24 /-</u>	<u>H04N 19 /-</u>
2020206600	<u>F24F 11 /-</u>	2020201196	<u>G10L 15 /-</u>	2023251421	2019455073
<u>F16B 31 /-</u>	2022212455	<u>G05D 1 /-</u>	2024204430	2023285753	2020242490
2022221516	<u>F24F 7 /-</u>	<u>G06F 16 /-</u>	2024204790	<u>H01R 9 /-</u>	2023200765
<u>F16B 33 /-</u>	2022212455	2024200402	<u>G11B 27 /-</u>	2023251421	2023204333
2022221516	<u>F25C 1 /-</u>	2024204790	<u>G16C 10 /-</u>	<u>H02G 3 /-</u>	<u>H04N 21 /-</u>
<u>F16B 37 /-</u>	2021305336	<u>G06F 21 /-</u>	2024200402	2020201632	2022272560
2022221516	<u>G01C 19 /-</u>	2019425357	2022382627	<u>H02H 3 /-</u>	2024200402
<u>F16B 7 /-</u>	2021330667	2023208118	<u>G16H 10 /-</u>	2023206146	<u>H04N 5 /-</u>
2022221516	<u>G01C 23 /-</u>	<u>G06F 40 /-</u>	2023201782	<u>H02J 13 /-</u>	<u>H04Q 1 /-</u>
<u>F16C 33 /-</u>	2019204291	2024204790	<u>G16H 50 /-</u>	2021351349	2020201632
2022212455	<u>G01H 3 /-</u>	<u>G06F 9 /-</u>	2023248196	<u>H02J 3 /-</u>	<u>H04W 12 /-</u>
<u>F16C 37 /-</u>	2020279435	2020294206	<u>G16H 70 /-</u>	2021351349	2023208118
2021330667	<u>G01M 13 /-</u>	<u>G06K 19 /-</u>	2023248196	2022208865	<u>H04W 72 /-</u>
<u>F16F 15 /-</u>	2022259856	2023214218	<u>G21G 4 /-</u>	2023327766	2022290742
2021330667	<u>G01N 21 /-</u>	<u>G06N 10 /-</u>	2020268890	<u>H02J 7 /-</u>	<u>H04W 84 /-</u>
<u>F16H 57 /-</u>	2019284819	2021399002	<u>H01B 13 /-</u>	2022208865	2022290742
2020312428	2022286586	2022382627	2020200772	<u>H02J 9 /-</u>	<u>H05K 5 /-</u>
2020312542	2023203725	<u>G06Q 10 /-</u>	<u>H01B 3 /-</u>	2022208865	2022324260
	<u>G01N 23 /-</u>	2019387205	<u>H02K 7 /-</u>	2021330667	<u>H05K 7 /-</u>
		2023201782			2020201632

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2022208865
2023203760

H10F 10 /-

2021431583

H10F 19 /-

2023202291

H10F 71 /-

2021431583
2023202291

H10F 77 /-

2021431583
2023202291

Opposition Proceedings

(The name in parentheses is that of the opponent)

Opposition Lodged2024220076 **Sciencons AS** (AdvanCell Pty Limited)**Patents Granted****Standard Patents**

2017312785	2017313632	2017316604	2017320776
2017321423	2017326751	2017330411	2017334408
2017341047	2017362967	2018202851	2018204732
2018209227	2018211243	2018214022	2018219790
2018226391	2018226392	2018227807	2018229748
2018241059	2018241881	2018247797	2018248327
2018266675	2018274872	2018275267	2018276376
2018280856	2018282865	2018289581	2018291128
2018293389	2018304554	2018317931	2018321582
2018325645	2018337761	2018338345	2018341396
2018344154	2018348214	2018349196	2018355153
2018355217	2018361590	2018361591	2018363874
2018369314	2018370124	2018371655	2018373492
2018374527	2018375104	2018376560	2018380433
2018380880	2018387291	2018389595	2018392074
2018392222	2018406465	2018406738	2018410663
2018410666	2018412069	2018415594	2018423606
2018433607	2018447235	2018451042	2019200523
2019201322	2019202889	2019206012	2019206506
2019208250	2019211358	2019212194	2019212626
2019218942	2019219077	2019223350	2019224089
2019225728	2019231259	2019232875	2019232940
2019235526	2019235586	2019236632	2019238615
2019239983	2019240231	2019240584	2019240664
2019245420	2019247544	2019247708	2019249890
2019251217	2019251615	2019254680	2019256746
2019257649	2019260705	2019264475	2019265786
2019269738	2019270211	2019270949	2019271385
2019271894	2019272432	2019272750	2019273038
2019277547	2019278016	2019278018	2019280693
2019280826	2019283439	2019283814	2019285277
2019285317	2019286544	2019287468	2019290318
2019296552	2019296553	2019297516	2019303851
2019306071	2019310191	2019312212	2019314468
2019318439	2019320080	2019321847	2019323687
2019324133	2019324588	2019328290	2019330032
2019335421	2019336268	2019337583	2019338944
2019341733	2019342706	2019351481	2019352616
2019357605	2019358227	2019363179	2019364601
2019364677	2019369173	2019373306	2019376595
2019376907	2019383960	2019386717	2019388458
2019390319	2019392497	2019395666	2019396129
2019396499	2019404053	2019405961	2019410833
2019411511	2019415335	2019416316	2019417448
2019417463	2019429901	2019459336	2019478841
2020200952	2020205042	2020209745	2020226138
2020236308	2020239671	2020241316	2020245603
2020252710	2020254100	2020254232	2020267382
2020278592	2020290081	2020320244	2020321235
2020344961	2020351150	2020352824	2020359872
2020364192	2020366222	2020370142	2020376953
2020381702	2020383878	2020386598	2020400417
2020403913	2020430781	2020462696	2021201950
2021202874	2021203100	2021203599	2021205836
2021214437	2021216590	2021222857	2021224434
2021225792	2021236089	2021242899	2021247882
2021250963	2021253751	2021255595	2021257863
2021258116	2021265861	2021266476	2021266568
2021267483	2021277772	2021280384	2021285039
2021286241	2021290271	2021300824	2021309472

Patents Granted**Standard Patents**

2021310189	2021310303	2021312278	2021323356
2021323868	2021333878	2021338990	2021339659
2021339792	2021343368	2021345024	2021345939
2021347175	2021351490	2021353406	2021353968
2021353979	2021355100	2021364476	2021373599
2021374039	2021380853	2021390155	2021390778
2021399965	2021401294	2021410309	2021411587
2021414245	2021420388	2021425179	2021425425
2021426916	2021428238	2021430797	2021431740
2021442353	2021447805	2021450620	2021455350
2022201083	2022201691	2022201894	2022203670
2022204036	2022204625	2022204717	2022211790
2022213430	2022215276	2022215284	2022216856
2022218640	2022219946	2022220631	2022221544
2022224721	2022224729	2022231774	2022232621
2022232901	2022234400	2022235569	2022241660
2022243326	2022245550	2022246382	2022252763
2022252796	2022253454	2022255190	2022256201
2022259358	2022259792	2022261127	2022263492
2022266288	2022268333	2022270588	2022271397
2022271457	2022274771	2022275415	2022275486
2022279287	2022279371	2022279403	2022283738
2022291449	2022295310	2022298955	2022313786
2022346926	2022356286	2022358349	2022358641
2022400246	2022451414	2022456752	2022462020
2023200438	2023200442	2023200739	2023201038
2023201121	2023201139	2023201166	2023201317
2023201435	2023201530	2023201631	2023201740
2023201989	2023202245	2023202324	2023202344
2023202479	2023203209	2023203309	2023203787
2023203916	2023204144	2023204148	2023204319
2023209820	2023210534	2023214367	2023214388
2023222886	2023224893	2023229609	2023237095
2023241331	2023251460	2023262105	2023266353
2023274082	2023274139	2023285923	2023286000
2023331395	2023366057	2024200766	2024201461
2024201670	2024203028	2024216547	

Assignments Registered

2009260409 L3 Technologies, Inc. The patent has been assigned to **L3Harris Aviation Products, Inc.**

2012279478 L3 Technologies, Inc. The patent has been assigned to **L3Harris Aviation Products, Inc.**

2012311582 F. HOFFMANN-LA ROCHE AG The patent has been assigned to **CinCor Pharma, Inc.**

2015318134 L3 Technologies, Inc. The patent has been assigned to **L3Harris Aviation Products, Inc.**

2015369653 Road Widener LLC The patent has been assigned to **Ligchine International Corporation**

2017252574 Adimab, LLC; Acceleron Pharma Inc. The patent has been assigned to **Acceleron Pharma Inc.**

2017261570 L3 Technologies, Inc. The patent has been assigned to **L3Harris Aviation Products, Inc.**

2018355418 L3 Technologies, Inc. The patent has been assigned to **L3Harris Aviation Products, Inc.**

2018355549 L3 Technologies, Inc. The patent has been assigned to **L3Harris Aviation Products, Inc.**

2018355551 L3 Technologies, Inc. The patent has been assigned to **L3Harris Aviation Products, Inc.**

Assignments Registered

2018357860 L3 Technologies, Inc. The patent has been assigned to **L3Harris Aviation Products, Inc.**

2019216720 Road Widener LLC The patent has been assigned to **Ligchine International Corporation**

2020202270 L3 Technologies, Inc. The patent has been assigned to **L3Harris Aviation Products, Inc.**

2021200440 Road Widener LLC The patent has been assigned to **Ligchine International Corporation**

Extensions of Term of Standard Patents

Extension of Term of a Standard Patent relating to Pharmaceutical Substances

Extensions granted

The following application(s) for Extension of Term have been granted under Section 76.

2008285784 **Cassiopea S.p.A.**

The earliest first regulatory approval date provided by the patentee 12 Mar 2024

For the goods WINLEVI clascoterone

Extension of Term of patent pursuant to Section 77 expires on 24 Jul 2033

2014233577 **Cassiopea S.p.A.**

The earliest first regulatory approval date provided by the patentee 12 Mar 2024

For the goods WINLEVI clascoterone

Extension of Term of patent pursuant to Section 77 expires on 24 Jul 2033

Specifications Republished

The following specifications contained errors when advertised OPI, Accepted or Certified. They have been reissued on the date of this Journal.

2022261752 **I-SENS, INC.**

Advertisement pursuant to rule 34.41 of the *Federal Court Rules 2011* (Cth)Section 105 *Patents Act 1990* (Cth)**1 Rule 34.41(1)(a) | identity of proceeding in which the application will be made**

Court:

Federal Court of Australia

Victoria Registry

General Division

Proceeding Number VID 1260/2024

Parties:

Zhejiang Zhuji United Chemicals Co., Ltd

Appellant

Wrays Solutions Pty Ltd

Respondent

2 Rule 34.41(1)(b) | the particulars of the amendment sought

Zhejiang Zhuji United Chemicals Co., Ltd, the applicant of Australian Patent Application No. 2019446196 for an invention currently entitled 'High-purity thermostable crystal form of substituted 3-isoxazolidinone compound, preparation method therefor, and application thereof' (**Application**) and the appellant in the above proceeding, will seek an order under section 105(1A) of the *Patents Act 1990* (Cth) directing the amendment of the Application as follows (and as marked up in the Annexure to this Advertisement):

Claims

- (a) Amend claim 1 to move "." from before the chemical compound to after the chemical compound.
- (b) Amend claim 2 to:
 - (1) insert "further" before "characterized"; and
 - (2) delete "; and the reflex at $2\theta=10.53\pm0.2^\circ$ is strongest in intensity among the eight reflexes".
- (c) Insert new claims 3 to 17, which read as follows:
 - 3. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to Claim 2, further characterized in that the reflex at $2\theta=10.53\pm0.2^\circ$ is one of the at least three reflexes, and is strongest in intensity among the at least three reflexes.
 - 4. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-3, further characterized in that the orthorhombic crystal shows, in X-ray powder diffraction reflexes determined as 2θ angle values using Cu-K α radiation, at least five of the reflexes of Claim 2.
 - 5. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-3, further characterized in that the orthorhombic crystal shows, in X-ray powder diffraction reflexes determined as 2θ angle values using Cu-K α radiation, all eight of the reflexes of Claim 2.

6. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-5, further characterized in that the orthorhombic crystal shows, in X-ray powder diffraction reflexes determined as 2θ angle values using Cu-K α radiation, a reflex at $43.96\pm0.2^\circ$.

7. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-6, further characterized in that the orthorhombic crystal shows, in X-ray powder diffraction reflexes determined as 2θ angle values using Cu-K α radiation, a reflex at $31.89\pm0.2^\circ$.

8. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-8, further characterized in that the content of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) in the crystal is greater than 99% weight/weight.

9. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-8, further characterized in that the orthorhombic crystal is acicular.

10. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to Claim 9, further characterised in that substantially all of the crystal is acicular.

11: The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to Claim 9 or Claim 10, further characterised in that there is at least 8 g of crystal(s).

12. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 9-11, further characterized in that the crystal was produced by selection of an acicular seed crystal and generation of further crystal having acicular form.

13. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-12, further characterized in that the crystal is stable after 10 days stored in an oven at $60\pm2^\circ\text{C}$, in a 90 ± 5 humidity condition, and under 4500 ± 500 lux light intensity.

14. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-13, further characterized in that the crystal has a solubility of less than 100 mg/L in water.

15 An agrochemical formulation characterized in that the formulation comprises crystalline 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-14.

16. The agrochemical formulation of Claim 15 characterized in that the formulation is a water dispersible granule.

17. The agrochemical formulation of Claim 15 characterized in that the formulation a suspension concentrate.

(d) Combine previous claims 3 and 4 to form a new claim 18 by:

(1) in previous claim 3:

- (A) replacing "Claim 1 or 2" with "any one of Claims 1-14";
- (B) replacing "a preparation process" with "the method";
- (C) inserting "." after "comprises";
- (D) replacing "slowly volatilizing the solvent A through heating, cooling and re-heating" with "heating the mixture to 40°C to 90°C , cooling the mixture to -10°C to 10°C for 10 to 20

- hours, re-heating the mixture to 15 °C and 40 °C and maintaining at this temperature for 3 to 30 days"; and
- (E) inserting "wherein" before "the solvent A"; and
- (F) deleting "one or more selected from the group consisting of alkanes and cycloalkanes".
- (2) in previous claim 4:
- (A) deleting "4. The method for preparing the seed crystal of the crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to Claim 3, characterized in that the solvent A is"; and
- (B) replacing "a boiling" with "and the boiling".
- (e) Amend claim 19 (previous claim 5) to:
- (1) delete "efficiently";
- (2) replace "Claim 1, characterized in that a preparation process comprises" with "any one of Claims 1-14, characterized in that the method comprises:";
- (3) replace "Claim 4" with "Claim 18";
- (4) insert "wherein" before "the crude product"; and
- (5) insert "and" before "the solvent B is".
- (f) Amend claim 20 (previous claim 6) to:
- (1) delete "efficiently";
- (2) replace "Claim 5, characterized in that content" with "Claim 19, further characterized in that the content";
- (3) insert "weight/weight" after "80%"; and
- (4) insert "and" before "a weight/volume ratio".
- (g) Amend claim 21 (previous claim 7) to:
- (1) delete "efficiently"; and
- (2) replace "Claim 5 or 6, " with "Claim 19 or 20, further".
- (h) Amend claim 22 (previous claim 8) to:
- (1) delete "efficiently";
- (2) replace "Claim 5 or 6, " with "any one of claims 19-21, further";
- (3) insert "in the high-purity, thermostable crystal" before "is greater than 99%"; and
- (4) insert "weight/weight" after "99%".
- (i) Insert new claims 23 to 29, which read as follows:
23. A crystal of 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-14, further characterized in that the crystal is produced by the method of any one of claims 18 to 22.
24. A method for preparing an agrochemical formulation, characterized in that the method comprises:
- combining the high-purity, thermostable crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) obtained according to any one of claims 19-22 with an inert additive.
25. The method for preparing an agrochemical formulation according to claim 24, further characterized in that the inert additive comprises one or more of a solid carrier or a liquid carrier and optionally further comprises one or more of a surfactant, a dispersant, a viscosity-

modifying additive, a defoamer, an antifreeze agent, a pH reagent, a stabilizer, and a preservative.

26. The method for preparing an agrochemical formulation according to Claim 24 or 25, further characterized in that the agrochemical formulation is a water dispersible granule.

27. The method for preparing an agrochemical formulation according to Claim 24 or 25, further characterized in that the agrochemical formulation is a suspension concentrate.

28. The method for preparing an agrochemical formulation according to claim 26, further characterized in that the agrochemical formulation comprises high-purity, thermostable crystal(s) of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) in a water dispersible granule, wherein the water dispersible granule comprises 40 % (w/w) high-purity, thermostable crystal(s) of 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) and the method process comprises:

- i) mechanically pulverizing, kneading, granulating and drying the high-purity, thermostable crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) obtained according to any one of claims 19-22; and
- ii) combining the product of i) with an inert additive that comprises sodium dodecyl sulfate, naphthalene sulfonate condensate, lignosulfate, sodium tallowate and kaolin.

29. The method for preparing an agrochemical formulation according to claim 27, further characterized in that the agrochemical formulation comprises high-purity, thermostable crystal(s) of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) in a suspension concentrate, wherein the suspension concentrate comprises 40 % (w/w) high-purity, thermostable crystal(s) of 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) and the method further comprises:

- i) mixing the high-purity, thermostable crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) obtained according to any one of claims 19-22 with lignosulfonate, EOPO block copolymer, silicone, xanthan gum, ethylene glycol and water; and
- ii) grinding the product of i) with a sand mill.

(j) Amend claim 30 (previous claim 9) to:

- (1) replace "An application" with "Use"; and
- (2) replace "claims 1 or 2 in preparation of agrochemical formulations and" with "any one of claims 1-14 in the preparation of an agrochemical formulation for the".

(k) Insert new claims 31 to 34, which read as follows:

31. A method for controlling unwanted weeds for protecting crops, characterized in that the method comprises:

applying an agricultural formulation comprising the crystalline 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-14 to one or more of soil, crops and unwanted weeds.

32. The use according to Claim 30 or the method according to Claim 31, further characterized in that the agrochemical formulation is a water dispersible granule.

33. The use according to Claim 30 or the method according to Claim 31, further characterized in that the agrochemical formulation is a suspension concentrate.

34. The use according to any one of Claims 30, 32 and 33 further characterized in that the agrochemical formulation is for pre-emergent use, or the method according to any one of claims 31-33, further characterized in that the agrochemical formulation is applied to the soil and/or crops prior to emergence of the weeds.

- (l) Dividing previous claim 10 into a new claim 35 and 38 by:
 - (1) in the new claim 35:
 - (A) replacing “application” with “use according to any one of Claims 30 and 32-34 or the method”;
 - (B) replacing “Claim 9, ” with “ any one of Claims 31-34, further”;
 - (C) deleting “the agrochemical formulations are a water dispersible granulate or a suspension concentrate”;
 - (D) inserting “one or more of” before “corn”; and
 - (E) replacing “rye;” with “rye.”.
 - (2) in the new claim 38:
 - (A) inserting “38. The use according to one of Claims 30 and 32-37 or the method according to any one of Claims 31-37, further characterized in that” before “the weeds”; and
 - (B) inserting “one or more of” before “Echinochloa crus-galli”.
- (m) Insert new claims 36 and 37, which read as follows:

36. The use according to one of Claims 30 and 32-35 or the method according to any one of Claims 31-35, further characterized in that the crop is corn.

37. The use according to one of Claims 30 and 32-35 or the method according to any one of Claims 31-35, further characterized in that the crop is wheat.
- (n) Amend claim 39 (previous claim 11) to:
 - (1) replace “applications” with “use according to any one of Claims 30 and 32-38 or the method”;
 - (2) replace “Claim 10, ” with “any one of Claims 31-38, further”;
 - (3) delete “the agrochemical formulation is water dispersible granule, the crops are corn, wheat;”; and
 - (4) replace “are Stellaria media,” with “comprise Stellaria media and/or”.

3 Rule 34.41(1)(c) | applicant’s address for service

Herbert Smith Freehills

80 Collins Street

Melbourne VIC 3000

DX 240 Melbourne

Email: emma.iles@hsf.com

4 Rule 34.41(1)(d) | persons intending to oppose the application

Any person intending to oppose the application who is not a party to the proceeding (described in section 1 above) must, within 28 days after publication of this advertisement, give written notice of that intention to:

- (a) the Commissioner;

2019446196 20 Jan 2025

- (b) Zhejiang Zhuji United Chemicals Co., Ltd; and
- (c) Wrays Solutions Pty Ltd.

The address for service of Wrays Solutions Pty Ltd is:

Level 20, 600 Bourke Street

Melbourne VIC 3000

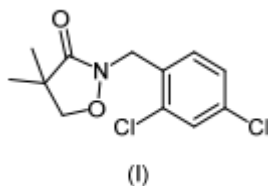
Email: andrew.goatcher@wrays.com.au

Annexure to Advertisement

Application marked-up with proposed amendments to the Patent Application.

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A crystal of 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I), characterized in that the crystal is an orthorhombic crystal, with a space group of P2₁ 2₁ 2₁ and lattice parameters of a=9.2301 (2) Å, b=11.0751 (3) Å, c=12.7554 (3) Å, $\alpha=90^\circ$, $\beta=90^\circ$, and $\gamma=90^\circ$; and a melting point of the crystal ranges from 83 °C to 85°C.



2. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to Claim 1, further characterized in that the orthorhombic crystal shows, in X-ray powder diffraction reflexes determined as 2θ angle values using Cu-K α radiation, at least three of the following reflexes:

- (1) $2\theta=10.53\pm0.2^\circ$
- (2) $2\theta=14.20\pm0.2^\circ$
- (3) $2\theta=15.92\pm0.2^\circ$
- (4) $2\theta=18.54\pm0.2^\circ$
- (5) $2\theta=19.80\pm0.2^\circ$
- (6) $2\theta=21.10\pm0.2^\circ$
- (7) $2\theta=24.92\pm0.2^\circ$
- (8) $2\theta=27.73\pm0.2^\circ$

~~;~~ and

~~the reflex at $2\theta=10.53\pm0.2^\circ$ is strongest in intensity among the eight reflexes.~~

3. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to Claim 2, further characterized in that the reflex at $2\theta=10.53\pm0.2^\circ$ is one of the at least three reflexes, and is strongest in intensity among the at least three reflexes.

4. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-3, further characterized in that the orthorhombic crystal shows, in X-ray powder diffraction reflexes determined as 2θ angle values using Cu-K α radiation, at least five of the reflexes of Claim 2.

5. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-3, further characterized in that the orthorhombic crystal shows, in X-ray

powder diffraction reflexes determined as 2θ angle values using Cu-K α radiation, all eight of the reflexes of Claim 2.

6. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-5, further characterized in that the orthorhombic crystal shows, in X-ray powder diffraction reflexes determined as 2θ angle values using Cu-K α radiation, a reflex at $43.96 \pm 0.2^\circ$.

7. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-6, further characterized in that the orthorhombic crystal shows, in X-ray powder diffraction reflexes determined as 2θ angle values using Cu-K α radiation, a reflex at $31.89 \pm 0.2^\circ$.

8. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-8, further characterized in that the content of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) in the crystal is greater than 99% weight/weight.

9. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-8, further characterized in that the orthorhombic crystal is acicular.

10. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to Claim 9, further characterised in that substantially all of the crystal is acicular.

11: The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to Claim 9 or Claim 10, further characterised in that there is at least 8 g of crystal(s).

12. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 9-11, further characterized in that the crystal was produced by selection of an acicular seed crystal and generation of further crystal having acicular form.

13. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-12, further characterized in that the crystal is stable after 10 days stored in an oven at $60 \pm 2^\circ\text{C}$, in a 90 ± 5 humidity condition, and under 4500 ± 500 lux light intensity.

14. The crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-13, further characterized in that the crystal has a solubility of less than 100 mg/L in water.

15 An agrochemical formulation characterized in that the formulation comprises crystalline 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-14.

16. The agrochemical formulation of Claim 15 characterized in that the formulation is a water dispersible granule.

17. The agrochemical formulation of Claim 15 characterized in that the formulation a suspension concentrate.

18. A method for preparing a seed crystal of the crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-14, characterized in that ~~a preparation process~~the method comprises:

dissolving a sub-thermostable monoclinic crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) in organic solvent A,

~~slowly volatilizing the solvent A through heating, cooling and re-heating~~ heating the mixture to 40 °C to 90 °C, cooling the mixture to -10 °C to 10 °C for 10 to 20 hours, re-heating the mixture to 15 °C and 40 °C and maintaining at this temperature for 3 to 30 days,

crystallizing to produce a mixture of acicular crystals on the layer outside and rhombohedral crystals inside, and

collecting the acicular crystals on the layer outside;

wherein the solvent A is ~~one or more selected from the group consisting of alkanes and cycloalkanes.~~

~~4. The method for preparing the seed crystal of the crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to Claim 3, characterized in that the solvent A is a petroleum ether, and the~~ boiling range of the petroleum ether is between 60 °C and 90 °C.

519. A method for ~~efficiently~~ preparing a high-purity thermostable crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-14, characterized in that ~~a preparation process~~ the method comprises:

dissolving a crude product of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) in solvent B by heating the solvent B to 40-100°C, then

~~-cooling to 10-30°C while adding an orthorhombic seed crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) prepared according to the method of Claim~~ 418,

crystallizing, and

filtering to obtain a high-purity thermostable orthorhombic crystal;

wherein the crude product is an oily liquid or solid; and the solvent B is one or more selected from the group consisting of alkanes, cycloalkanes, halogenated hydrocarbons, aromatic hydrocarbons, ethers, alcohols, esters, ketones, sulfoxides, amide solvents, and water.

620. The method for ~~efficiently~~ preparing the high-purity thermostable crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to Claim 519, further characterized in that the content of 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) in the crude product is not less than 80% weight/weight; the solvent B is one or more selected from the group consisting of alkanes, halogenated hydrocarbons, aromatic hydrocarbons, alcohol solvents, and water; and a weight/volume ratio of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) to solvent B is 1:0.5-3.

721. The method for ~~efficiently~~ preparing the high-purity, thermostable crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to Claim ~~519~~ or 620, further characterized in that the solvent B is one or more selected from the group consisting of petroleum ether, toluene, chloroform, ethanol, and water.

822. The method for ~~efficiently~~ preparing the high-purity, thermostable crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to ~~Claim 5 or 6~~ any one of claims 19-21, further characterized in that the content of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) in the high-purity, thermostable crystal is greater than 99% weight/weight.

23. A crystal of 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-14, further characterized in that the crystal is produced by the method of any one of claims 18 to 22.

24. A method for preparing an agrochemical formulation, characterized in that the method comprises:

combining the high-purity, thermostable crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) obtained according to any one of claims 19-22 with an inert additive.

25. The method for preparing an agrochemical formulation according to claim 24, further characterized in that the inert additive comprises one or more of a solid carrier or a liquid carrier and optionally further comprises one or more of a surfactant, a dispersant, a viscosity-modifying additive, a defoamer, an antifreeze agent, a pH reagent, a stabilizer, and a preservative.

26. The method for preparing an agrochemical formulation according to Claim 24 or 25, further characterized in that the agrochemical formulation is a water dispersible granule.

27. The method for preparing an agrochemical formulation according to Claim 24 or 25, further characterized in that the agrochemical formulation is a suspension concentrate.

28. The method for preparing an agrochemical formulation according to claim 26, further characterized in that the agrochemical formulation comprises high-purity, thermostable crystal(s) of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) in a water dispersible granule, wherein the water dispersible granule comprises 40 % (w/w) high-purity, thermostable crystal(s) of 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) and the method process comprises:

i) mechanically pulverizing, kneading, granulating and drying the high-purity, thermostable crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) obtained according to any one of claims 19-22; and

ii) combining the product of i) with an inert additive that comprises sodium dodecyl sulfate, naphthalene sulfonate condensate, lignosulfate, sodium tallowate and kaolin.

29. The method for preparing an agrochemical formulation according to claim 27, further characterized in that the agrochemical formulation comprises high-purity, thermostable crystal(s) of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) in a suspension concentrate, wherein the suspension concentrate comprises 40 % (w/w) high-purity, thermostable crystal(s) of 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) and the method further comprises:

i) mixing the high-purity, thermostable crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) obtained according to any one of claims 19-22 with lignosulfonate, EOPO block copolymer, silicone, xanthan gum, ethylene glycol and water; and

ii) grinding the product of i) with a sand mill.

930. Use~~An application~~ of the crystal of the 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of claims 1-14~~1 or 2~~ in the preparation of an agrochemical formulations ~~and~~for the control of unwanted weeds for protecting crops.

31. A method for controlling unwanted weeds for protecting crops, characterized in that the method comprises:

_____ applying an agricultural formulation comprising the crystalline 2-[(2,4-dichlorophenyl)methyl]-4,4-dimethyl-3-isoxazolidinone compound (Formula I) according to any one of Claims 1-14 to one or more of soil, crops and unwanted weeds.

32. The use according to Claim 30 or the method according to Claim 31, further characterized in that the agrochemical formulation is a water dispersible granule.

33. The use according to Claim 30 or the method according to Claim 31, further characterized in that the agrochemical formulation is a suspension concentrate.

34. The use according to any one of Claims 30, 32 and 33 further characterized in that the agrochemical formulation is for pre-emergent use, or the method according to any one of claims 31-33, further characterized in that the agrochemical formulation is applied to the soil and/or crops prior to emergence of the weeds.

~~4035.~~ The ~~application~~ use according to any one of Claims 30 and 32-34 or the method according to any one of Claims ~~931-34~~, further characterized in that ~~the agrochemical formulations are a water dispersible granule or a suspension concentrate;~~ the crops comprise one or more of corn, wheat, rape, rice, sorghum, barley or rye.;

36. The use according to one of Claims 30 and 32-35 or the method according to any one of Claims 31-35, further characterized in that the crop is corn.

37. The use according to one of Claims 30 and 32-35 or the method according to any one of Claims 31-35, further characterized in that the crop is wheat.

~~2038.~~ The use according to one of Claims 30 and 32-37 or the method according to any one of Claims 31-37, further characterized in that the weeds comprise one or more of Echinochloa crus-galli, Digitaria sanguinalis, Setaria viridis, Eleusine indica, Cynodon dactylon, Phragmites australis, Cyperus iria, Polygonum L., Xanthium sibiricum, abutilon, Portulaca oleracea, Solanum nigrum, Chenopodiaceae, Acalypha australis, Malachium aquaticum, Amaranthus retroflexus, Portulaca oleracea, Amaranthus blitum, Conyza Canadensis, Elsholtzia ciliata, Cirsium japonicum, Cirsium setosum, Sonchus oleraceus L., Eclipta prostrata, Calystegia hederacea, Parthenocissus tricuspidata, Commelina communis, Capparis spinosa L., Plantago asiatica, Medicago sativa L., Glycine soja, Alopecurus aequalis, Alopecurus japonicus, Beckmannia syzigachne Bromus japonicus Thunb, Poa annua, Avena fatua, Polypogon, Lolium perenne, Aegilops tauschii, Stellaria uliginosa, Galium spurium, Stellaria media, Cerastium arvense, Veronica didyma, Cardamine hirsuta, Polygonum lapathifolium, Vicia sativa, Capsella bursa-pastoris, Ixeris denticulata, Hemistepta lyrata, Oxalis corniculata, Euphorbia helioscopia, Convolvulus arvensis, Silene conoidea, Chenopodium serotinum L., Polygonum aviculare L., Rumex dentatus, Thlaspi arvense, Lapsana apogonoides, Lamium amplexicaule, Rotala indica, Abutilon theophrasti, Astilberivularis Buch.-Ham. Ex D. Don., Ambrosia artemisiifolia, Leymus chinensis, Lolium multiflorum, Datura stramonium, Sorghum halepense, Pharbitis Choisy, Elytrigia, Helianthus annuus, Polygonum convolvulus, Sinapis arvensis, Setaria glauca, green foxtail, Chenopodium album, Commelina benghalensis, Nigella damascena, Brachiaria eruciformis, Cirsium arvense, Xanthium pennsylvanicum, Papaver rhoeas, Matthiola incana, Setaria viridis sp. Pycnocomma, hairy beggarticks, Nigella

damascena, horseweed, large crabgrass, littleseed canarygrass, Pennsylvaniasmartweed, pitted morningglory, sida spinosa L., Apera spica-venti, wild poinsettia and Cyperus esculentus.

39. The ~~applications~~ use according to any one of Claims 30 and 32-38 or the method according to ~~Claim 10~~ any one of Claims 31-38, further characterized in that ~~the agrochemical formulation is water dispersible granule, the crops are corn, wheat;~~ the weeds ~~are~~ comprise Stellaria media and/or; Poa annua L.